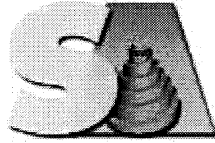


Date Reported:
11-May-12



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

- Final Report
- Re-Issued Report
- Revised Report

Laboratory Report

Oneida Total Integrated Enterprises
1220 Kennestone Circle, Suite 106
Marietta, GA 30066

Project # 3505843
Project: OTIE- Five Mile Creek / Site 1392

Attn: Limari Krebs

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
350584301	EPAFMC-SD-07	S	24-Apr-12 11:25	25-Apr-12 9:25
350584302	EPAFMC-SD-07MS	S	24-Apr-12 11:25	25-Apr-12 9:25
350584303	EPAFMC-SD-07SD	S	24-Apr-12 11:25	25-Apr-12 9:25
350584304	EPAFMC-SD-08	S	24-Apr-12 11:37	25-Apr-12 9:25
350584305	EPAFMC-SD-09	S	24-Apr-12 11:45	25-Apr-12 9:25
350584306	EPAFMC-SD-10	S	24-Apr-12 13:43	25-Apr-12 9:25
350584307	EPAFMC-SD-11	S	24-Apr-12 14:25	25-Apr-12 9:25
350584308	EPAFMC-SD-12	S	24-Apr-12 15:40	25-Apr-12 9:25
350584309	EPAFMC-SD-13	S	24-Apr-12 15:04	25-Apr-12 9:25
350584310	EPAFMC-SD-14	S	24-Apr-12 15:35	25-Apr-12 9:25
350584311	EPAFMC-SD-15	S	24-Apr-12 15:19	25-Apr-12 9:25
350584312	EPAFMC-SD-16	S	24-Apr-12 15:45	25-Apr-12 9:25
350584313	EPAFMC-SW-01	W	24-Apr-12 15:40	25-Apr-12 9:25
350584314	EPAFMC-SW-03	W	24-Apr-12 15:45	25-Apr-12 9:25

The samples were analyzed for the methods listed on the attached table of contents. See the attached data tables for results.

Soil samples are reported on dry weight basis, unless otherwise noted.

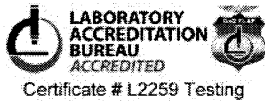
Submitted material will be retained for 30 days unless otherwise requested by client or consumed in analysis.

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirements have been met unless noted in the case narrative.

Spectrum Analytical is accredited under the National Environmental Laboratory Approval Program (NELAP) and is certified by several States, as well as USEPA and US Department of Defense. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

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Louisiana	02025
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Arkansas	11-036-1



Respectfully Submitted

Brian Spann
Laboratory Director
Spectrum Analytical, Inc. Florida Division

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EXECUTIVE SUMMARY - Detection Highlights

3505843

SAMPLE ID: EPAFMC-SD-07

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Aluminum	5010 N	8.82	MG/KG	SW6010B
Antimony	0.660 J	0.882	MG/KG	SW6010B
Arsenic	18.1	0.882	MG/KG	SW6010B
Barium	37.2	0.441	MG/KG	SW6010B
Beryllium	0.399 J	0.441	MG/KG	SW6010B
Cadmium	8.64 N	0.441	MG/KG	SW6010B
Chromium	63.3 N*	0.441	MG/KG	SW6010B
Cobalt	6.50	0.441	MG/KG	SW6010B
Copper	9.28	0.441	MG/KG	SW6010B
Lead	21.7	0.705	MG/KG	SW6010B
Magnesium	5340 N*	8.82	MG/KG	SW6010B
Nickel	9.53	0.441	MG/KG	SW6010B
Potassium	298 E	44.1	MG/KG	SW6010B
Sodium	67.4	26.4	MG/KG	SW6010B
Thallium	0.531 J	0.882	MG/KG	SW6010B
Vanadium	58.8 N	0.441	MG/KG	SW6010B
Zinc	142 N	0.882	MG/KG	SW6010B
Mercury	0.0156 J	0.0249	MG/KG	SW7471A
4-Methylphenol	88.1 J	280	UG/KG	SW8270D
Anthracene	75.6 J	280	UG/KG	SW8270D
Benzo(a)anthracene	449	280	UG/KG	SW8270D
Benzo(a)pyrene	400	280	UG/KG	SW8270D
Benzo(b)fluoranthene	526	280	UG/KG	SW8270D
Benzo(g,h,i)perylene	232 J	280	UG/KG	SW8270D
Benzo(k)fluoranthene	421	280	UG/KG	SW8270D
Chrysene	489	280	UG/KG	SW8270D
Dibenzo(a,h)anthracene	71.8 J	280	UG/KG	SW8270D
Fluoranthene	785	280	UG/KG	SW8270D
Indeno(1,2,3-cd)pyrene	204 J	280	UG/KG	SW8270D
Phenanthrene	230 J	280	UG/KG	SW8270D
Pyrene	667	280	UG/KG	SW8270D
1-Methylnaphthalene	8.00	3.5	UG/KG	SW8270D-SIM
2-Methylnaphthalene	21.0	3.5	UG/KG	SW8270D-SIM
Acenaphthene	9.00	3.5	UG/KG	SW8270D-SIM
Acenaphthylene	26.0	3.5	UG/KG	SW8270D-SIM
Anthracene	53.2	3.5	UG/KG	SW8270D-SIM
Benzo(a)anthracene	186	3.5	UG/KG	SW8270D-SIM
Benzo(a)pyrene	153	3.5	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	213	3.5	UG/KG	SW8270D-SIM

EXECUTIVE SUMMARY - Detection Highlights

3505843

Benzo(g,h,i)perylene	90.9	3.5	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	89.3	3.5	UG/KG	SW8270D-SIM
Chrysene	185	3.5	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	29.2	3.5	UG/KG	SW8270D-SIM
Fluoranthene	318	3.5	UG/KG	SW8270D-SIM
Fluorene	23.6	3.5	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	81.0	3.5	UG/KG	SW8270D-SIM
Naphthalene	58.4	3.5	UG/KG	SW8270D-SIM
Phenanthrene	124	3.5	UG/KG	SW8270D-SIM
Pyrene	236	3.5	UG/KG	SW8270D-SIM
TOC	9740	494	MG/KG	SW9060

SAMPLE ID: EPAFMC-SD-07DL1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Calcium	15600	44.1	MG/KG	SW6010B
Iron	34600	22.0	MG/KG	SW6010B
Manganese	422	2.20	MG/KG	SW6010B

SAMPLE ID: EPAFMC-SD-08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Aluminum	5600	8.20	MG/KG	SW6010B
Antimony	0.204 J	0.820	MG/KG	SW6010B
Arsenic	16.1	0.820	MG/KG	SW6010B
Barium	57.1	0.410	MG/KG	SW6010B
Beryllium	0.577	0.410	MG/KG	SW6010B
Calcium	17400	8.20	MG/KG	SW6010B
Chromium	68.2	0.410	MG/KG	SW6010B
Cobalt	8.45	0.410	MG/KG	SW6010B
Copper	19.3	0.410	MG/KG	SW6010B
Lead	20.3	0.656	MG/KG	SW6010B
Magnesium	7250	8.20	MG/KG	SW6010B
Nickel	10.1	0.410	MG/KG	SW6010B
Potassium	334	41.0	MG/KG	SW6010B
Sodium	74.2	24.6	MG/KG	SW6010B
Thallium	0.707 J	0.820	MG/KG	SW6010B

EXECUTIVE SUMMARY - Detection Highlights

3505843

Vanadium	44.6	0.410	MG/KG	SW6010B
Zinc	140	0.820	MG/KG	SW6010B
Mercury	0.0182 J	0.0195	MG/KG	SW7471A
Aroclor-1260	21.0 J	30	UG/KG	SW8082
Benzo(a)anthracene	172 J	220	UG/KG	SW8270D
Benzo(a)pyrene	129 J	220	UG/KG	SW8270D
Benzo(b)fluoranthene	210 J	220	UG/KG	SW8270D
Benzo(g,h,i)perylene	88.6 J	220	UG/KG	SW8270D
Benzo(k)fluoranthene	87.6 J	220	UG/KG	SW8270D
Chrysene	187 J	220	UG/KG	SW8270D
Fluoranthene	380	220	UG/KG	SW8270D
Indeno(1,2,3-cd)pyrene	79.2 J	220	UG/KG	SW8270D
Phenanthrene	215 J	220	UG/KG	SW8270D
Pyrene	317	220	UG/KG	SW8270D
1-Methylnaphthalene	4.50	2.7	UG/KG	SW8270D-SIM
2-Methylnaphthalene	9.60	2.7	UG/KG	SW8270D-SIM
Acenaphthene	25.2	2.7	UG/KG	SW8270D-SIM
Acenaphthylene	52.8	2.7	UG/KG	SW8270D-SIM
Anthracene	43.1	2.7	UG/KG	SW8270D-SIM
Benzo(a)anthracene	119	2.7	UG/KG	SW8270D-SIM
Benzo(a)pyrene	95.7	2.7	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	154	2.7	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	61.4	2.7	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	44.9	2.7	UG/KG	SW8270D-SIM
Chrysene	106	2.7	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	18.7	2.7	UG/KG	SW8270D-SIM
Fluoranthene	202	2.7	UG/KG	SW8270D-SIM
Fluorene	14.4	2.7	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	54.1	2.7	UG/KG	SW8270D-SIM
Naphthalene	29.5	2.7	UG/KG	SW8270D-SIM
Phenanthrene	81.0	2.7	UG/KG	SW8270D-SIM
Pyrene	148	2.7	UG/KG	SW8270D-SIM
TOC	1220	334	MG/KG	SW9060

SAMPLE ID: EPAFMC-SD-08DL1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Iron	42400	20.5	MG/KG	SW6010B
Manganese	659	2.05	MG/KG	SW6010B

EXECUTIVE SUMMARY - Detection Highlights

3505843

SAMPLE ID: EPAFMC-SD-09

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Aluminum	5060	8.25	MG/KG	SW6010B
Antimony	0.636 J	0.825	MG/KG	SW6010B
Arsenic	23.8	0.825	MG/KG	SW6010B
Barium	50.3	0.412	MG/KG	SW6010B
Beryllium	0.437	0.412	MG/KG	SW6010B
Calcium	17400	8.25	MG/KG	SW6010B
Chromium	58.8	0.412	MG/KG	SW6010B
Cobalt	8.27	0.412	MG/KG	SW6010B
Copper	29.0	0.412	MG/KG	SW6010B
Lead	22.2	0.660	MG/KG	SW6010B
Magnesium	5090	8.25	MG/KG	SW6010B
Nickel	8.52	0.412	MG/KG	SW6010B
Potassium	262	41.2	MG/KG	SW6010B
Sodium	140	24.8	MG/KG	SW6010B
Thallium	0.525 J	0.825	MG/KG	SW6010B
Vanadium	55.3	0.412	MG/KG	SW6010B
Zinc	117	0.825	MG/KG	SW6010B
Mercury	0.0457	0.0150	MG/KG	SW7471A
Benzo(a)anthracene	161 J	280	UG/KG	SW8270D
Benzo(a)pyrene	108 J	280	UG/KG	SW8270D
Benzo(b)fluoranthene	163 J	280	UG/KG	SW8270D
Benzo(g,h,i)perylene	65.7 J	280	UG/KG	SW8270D
Benzo(k)fluoranthene	77.4 J	280	UG/KG	SW8270D
Chrysene	161 J	270	UG/KG	SW8270D
Fluoranthene	214 J	280	UG/KG	SW8270D
Indeno(1,2,3-cd)pyrene	57.9 J	280	UG/KG	SW8270D
Pyrene	252 J	280	UG/KG	SW8270D
1-Methylnaphthalene	2.80 J	3.3	UG/KG	SW8270D-SIM
2-Methylnaphthalene	6.40	3.3	UG/KG	SW8270D-SIM
Acenaphthene	3.40	3.3	UG/KG	SW8270D-SIM
Acenaphthylene	17.6	3.3	UG/KG	SW8270D-SIM
Anthracene	29.8	3.3	UG/KG	SW8270D-SIM
Benzo(a)anthracene	148	3.3	UG/KG	SW8270D-SIM
Benzo(a)pyrene	114	3.3	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	160	3.3	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	62.3	3.3	UG/KG	SW8270D-SIM

EXECUTIVE SUMMARY - Detection Highlights

3505843

Benzo(k)fluoranthene	51.6	3.3	UG/KG	SW8270D-SIM
Chrysene	124	3.3	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	23.7	3.3	UG/KG	SW8270D-SIM
Fluoranthene	199	3.3	UG/KG	SW8270D-SIM
Fluorene	7.50	3.3	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	59.4	3.3	UG/KG	SW8270D-SIM
Naphthalene	26.0	3.3	UG/KG	SW8270D-SIM
Phenanthrene	50.1	3.3	UG/KG	SW8270D-SIM
Pyrene	230	3.3	UG/KG	SW8270D-SIM
TOC	2430	568	MG/KG	SW9060

SAMPLE ID: EPAFMC-SD-09DL1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Iron	43700	20.6	MG/KG	SW6010B
Manganese	512	2.06	MG/KG	SW6010B

SAMPLE ID: EPAFMC-SD-10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Aluminum	8300	7.95	MG/KG	SW6010B
Antimony	1.24	0.795	MG/KG	SW6010B
Arsenic	26.7	0.795	MG/KG	SW6010B
Barium	102	0.398	MG/KG	SW6010B
Beryllium	1.25	0.398	MG/KG	SW6010B
Chromium	106	0.398	MG/KG	SW6010B
Cobalt	10.8	0.398	MG/KG	SW6010B
Copper	11.1	0.398	MG/KG	SW6010B
Lead	22.3	0.636	MG/KG	SW6010B
Magnesium	6610	7.95	MG/KG	SW6010B
Nickel	9.96	0.398	MG/KG	SW6010B
Potassium	658	39.8	MG/KG	SW6010B
Sodium	186	23.8	MG/KG	SW6010B
Thallium	0.686 J	0.795	MG/KG	SW6010B
Vanadium	86.3	0.398	MG/KG	SW6010B
Zinc	231	0.795	MG/KG	SW6010B
Mercury	0.00858 J	0.0129	MG/KG	SW7471A

EXECUTIVE SUMMARY - Detection Highlights

3505843

Acenaphthylene	84.4 J	260	UG/KG	SW8270D
Anthracene	154 J	260	UG/KG	SW8270D
Benzo(a)anthracene	338	260	UG/KG	SW8270D
Benzo(a)pyrene	227 J	260	UG/KG	SW8270D
Benzo(b)fluoranthene	350	260	UG/KG	SW8270D
Benzo(g,h,i)perylene	118 J	260	UG/KG	SW8270D
Benzo(k)fluoranthene	123 J	260	UG/KG	SW8270D
Carbazole	76.6 J	260	UG/KG	SW8270D
Chrysene	326	260	UG/KG	SW8270D
Dibenzo(a,h)anthracene	50.2 J	260	UG/KG	SW8270D
Dibenzofuran	61.7 J	260	UG/KG	SW8270D
Fluoranthene	630	260	UG/KG	SW8270D
Fluorene	122 J	260	UG/KG	SW8270D
Indeno(1,2,3-cd)pyrene	104 J	260	UG/KG	SW8270D
Naphthalene	62.9 J	260	UG/KG	SW8270D
Phenanthrene	574	260	UG/KG	SW8270D
Pyrene	495	260	UG/KG	SW8270D
1-Methylnaphthalene	4.60	3.2	UG/KG	SW8270D-SIM
2-Methylnaphthalene	11.3	3.2	UG/KG	SW8270D-SIM
Acenaphthene	4.20	3.2	UG/KG	SW8270D-SIM
Acenaphthylene	39.9	3.2	UG/KG	SW8270D-SIM
Anthracene	104	3.2	UG/KG	SW8270D-SIM
Benzo(a)anthracene	298	3.2	UG/KG	SW8270D-SIM
Benzo(a)pyrene	208	3.2	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	298	3.2	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	111	3.2	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	107	3.2	UG/KG	SW8270D-SIM
Chrysene	297	3.2	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	46.3	3.2	UG/KG	SW8270D-SIM
Fluoranthene	423	3.2	UG/KG	SW8270D-SIM
Fluorene	16.6	3.2	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	110	3.2	UG/KG	SW8270D-SIM
Naphthalene	42.8	3.2	UG/KG	SW8270D-SIM
Phenanthrene	106	3.2	UG/KG	SW8270D-SIM
Pyrene	313	3.2	UG/KG	SW8270D-SIM
TOC	6000	430	MG/KG	SW9060

SAMPLE ID: EPAFMC-SD-10DL1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
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EXECUTIVE SUMMARY - Detection Highlights

3505843

Calcium	25200	39.8	MG/KG	SW6010B
Iron	56200	19.9	MG/KG	SW6010B
Manganese	1750	1.99	MG/KG	SW6010B

SAMPLE ID: EPAFMC-SD-11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Aluminum	4910	9.81	MG/KG	SW6010B
Antimony	0.345 J	0.981	MG/KG	SW6010B
Arsenic	13.2	0.981	MG/KG	SW6010B
Barium	45.5	0.490	MG/KG	SW6010B
Beryllium	0.577	0.490	MG/KG	SW6010B
Calcium	21400	9.81	MG/KG	SW6010B
Chromium	47.6	0.490	MG/KG	SW6010B
Cobalt	6.73	0.490	MG/KG	SW6010B
Copper	6.49	0.490	MG/KG	SW6010B
Iron	28000	4.90	MG/KG	SW6010B
Lead	14.2	0.785	MG/KG	SW6010B
Magnesium	6810	9.81	MG/KG	SW6010B
Nickel	7.28	0.490	MG/KG	SW6010B
Potassium	343	49.0	MG/KG	SW6010B
Sodium	95.8	29.4	MG/KG	SW6010B
Vanadium	44.1	0.490	MG/KG	SW6010B
Zinc	100	0.981	MG/KG	SW6010B
Mercury	0.0210	0.0181	MG/KG	SW7471A
Benzo(a)anthracene	176 J	270	UG/KG	SW8270D
Benzo(a)pyrene	118 J	270	UG/KG	SW8270D
Benzo(b)fluoranthene	186 J	270	UG/KG	SW8270D
Benzo(g,h,i)perylene	70.2 J	270	UG/KG	SW8270D
Benzo(k)fluoranthene	91.8 J	270	UG/KG	SW8270D
Chrysene	183 J	270	UG/KG	SW8270D
Fluoranthene	275	270	UG/KG	SW8270D
Indeno(1,2,3-cd)pyrene	60.6 J	270	UG/KG	SW8270D
Pyrene	265 J	270	UG/KG	SW8270D
1-Methylnaphthalene	5.30	3.4	UG/KG	SW8270D-SIM
2-Methylnaphthalene	9.90	3.4	UG/KG	SW8270D-SIM
Acenaphthene	7.70	3.4	UG/KG	SW8270D-SIM
Acenaphthylene	20.8	3.4	UG/KG	SW8270D-SIM
Anthracene	35.5	3.4	UG/KG	SW8270D-SIM
Benzo(a)anthracene	107	3.4	UG/KG	SW8270D-SIM

EXECUTIVE SUMMARY - Detection Highlights

3505843

Benzo(a)pyrene	92.4	3.4	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	135	3.4	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	55.8	3.4	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	46.0	3.4	UG/KG	SW8270D-SIM
Chrysene	88.9	3.4	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	19.7	3.4	UG/KG	SW8270D-SIM
Fluoranthene	185	3.4	UG/KG	SW8270D-SIM
Fluorene	15.3	3.4	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	51.8	3.4	UG/KG	SW8270D-SIM
Naphthalene	69.0	3.4	UG/KG	SW8270D-SIM
Phenanthrene	60.8	3.4	UG/KG	SW8270D-SIM
Pyrene	133	3.4	UG/KG	SW8270D-SIM
TOC	7320	576	MG/KG	SW9060

SAMPLE ID: EPAFMC-SD-11DL1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Manganese	591	2.45	MG/KG	SW6010B

SAMPLE ID: EPAFMC-SD-12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Aluminum	4670	9.34	MG/KG	SW6010B
Antimony	1.26	0.934	MG/KG	SW6010B
Arsenic	18.0	0.934	MG/KG	SW6010B
Barium	54.6	0.467	MG/KG	SW6010B
Beryllium	0.486	0.467	MG/KG	SW6010B
Calcium	18600	9.34	MG/KG	SW6010B
Chromium	61.3	0.467	MG/KG	SW6010B
Cobalt	13.0	0.467	MG/KG	SW6010B
Iron	31500	4.67	MG/KG	SW6010B
Lead	30.4	0.748	MG/KG	SW6010B
Magnesium	6980	9.34	MG/KG	SW6010B
Nickel	18.3	0.467	MG/KG	SW6010B
Potassium	272	46.7	MG/KG	SW6010B
Silver	0.328 J	0.467	MG/KG	SW6010B
Sodium	80.1	28.0	MG/KG	SW6010B

EXECUTIVE SUMMARY - Detection Highlights

3505843

Vanadium	45.0	0.467	MG/KG	SW6010B
Zinc	144	0.934	MG/KG	SW6010B
Mercury	0.0256	0.0203	MG/KG	SW7471A
2-Methylnaphthalene	65.7 J	250	UG/KG	SW8270D
Acenaphthylene	97.7 J	250	UG/KG	SW8270D
Anthracene	176 J	250	UG/KG	SW8270D
Benzo(a)anthracene	574	250	UG/KG	SW8270D
Benzo(a)pyrene	397	250	UG/KG	SW8270D
Benzo(b)fluoranthene	569	250	UG/KG	SW8270D
Benzo(g,h,i)perylene	215 J	250	UG/KG	SW8270D
Benzo(k)fluoranthene	279	250	UG/KG	SW8270D
Carbazole	69.8 J	250	UG/KG	SW8270D
Chrysene	550	250	UG/KG	SW8270D
Dibenzo(a,h)anthracene	71.6 J	250	UG/KG	SW8270D
Dibenzofuran	57.3 J	250	UG/KG	SW8270D
Fluoranthene	1060	250	UG/KG	SW8270D
Fluorene	55.3 J	250	UG/KG	SW8270D
Indeno(1,2,3-cd)pyrene	192 J	250	UG/KG	SW8270D
Naphthalene	342	250	UG/KG	SW8270D
Phenanthrene	373	250	UG/KG	SW8270D
Pyrene	878	250	UG/KG	SW8270D
1-Methylnaphthalene	65.8	3.1	UG/KG	SW8270D-SIM
2-Methylnaphthalene	162	3.1	UG/KG	SW8270D-SIM
Acenaphthene	36.1	3.1	UG/KG	SW8270D-SIM
Acenaphthylene	120	3.1	UG/KG	SW8270D-SIM
Anthracene	270	3.1	UG/KG	SW8270D-SIM
Benzo(a)anthracene	423	3.1	UG/KG	SW8270D-SIM
Benzo(a)pyrene	361	3.1	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	215	3.1	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	179	3.1	UG/KG	SW8270D-SIM
Chrysene	371	3.1	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	74.7	3.1	UG/KG	SW8270D-SIM
Fluorene	116	3.1	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	206	3.1	UG/KG	SW8270D-SIM
Phenanthrene	422	3.1	UG/KG	SW8270D-SIM
TOC	13200	401	MG/KG	SW9060

SAMPLE ID: EPAFMC-SD-12DL1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
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EXECUTIVE SUMMARY - Detection Highlights

3505843

Copper	636	2.34	MG/KG	SW6010B
Manganese	892	2.34	MG/KG	SW6010B
Benzo(b)fluoranthene	544	16	UG/KG	SW8270D-SIM
Fluoranthene	764	16	UG/KG	SW8270D-SIM
Naphthalene	666	16	UG/KG	SW8270D-SIM
Pyrene	532	16	UG/KG	SW8270D-SIM

SAMPLE ID: EPAFMC-SD-13

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Aluminum	5520	10.4	MG/KG	SW6010B
Antimony	0.735 J	1.04	MG/KG	SW6010B
Arsenic	15.2	1.04	MG/KG	SW6010B
Barium	49.1	0.520	MG/KG	SW6010B
Beryllium	0.440 J	0.520	MG/KG	SW6010B
Calcium	19200	10.4	MG/KG	SW6010B
Chromium	50.2	0.520	MG/KG	SW6010B
Cobalt	10.3	0.520	MG/KG	SW6010B
Copper	43.1	0.520	MG/KG	SW6010B
Iron	35700	5.20	MG/KG	SW6010B
Lead	36.1	0.832	MG/KG	SW6010B
Magnesium	7370	10.4	MG/KG	SW6010B
Nickel	10.7	0.520	MG/KG	SW6010B
Potassium	312	52.0	MG/KG	SW6010B
Sodium	73.6	31.2	MG/KG	SW6010B
Thallium	0.656 J	1.04	MG/KG	SW6010B
Vanadium	52.0	0.520	MG/KG	SW6010B
Zinc	168	1.04	MG/KG	SW6010B
Mercury	0.167	0.0138	MG/KG	SW7471A
Anthracene	142 J	270	UG/KG	SW8270D
Benzo(a)anthracene	466	270	UG/KG	SW8270D
Benzo(a)pyrene	362	270	UG/KG	SW8270D
Benzo(b)fluoranthene	603	270	UG/KG	SW8270D
Benzo(g,h,i)perylene	235 J	270	UG/KG	SW8270D
Benzo(k)fluoranthene	454	270	UG/KG	SW8270D
Carbazole	61.3 J	270	UG/KG	SW8270D
Chrysene	591	270	UG/KG	SW8270D
Fluoranthene	910	270	UG/KG	SW8270D
Fluorene	58.9 J	270	UG/KG	SW8270D
Indeno(1,2,3-cd)pyrene	206 J	270	UG/KG	SW8270D

EXECUTIVE SUMMARY - Detection Highlights

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Naphthalene	121 J	270	UG/KG	SW8270D
Phenanthrene	534	270	UG/KG	SW8270D
Pyrene	914	270	UG/KG	SW8270D
1-Methylnaphthalene	16.2	3.4	UG/KG	SW8270D-SIM
2-Methylnaphthalene	35.0	3.4	UG/KG	SW8270D-SIM
Acenaphthene	22.8	3.4	UG/KG	SW8270D-SIM
Acenaphthylene	68.7	3.4	UG/KG	SW8270D-SIM
Anthracene	143	3.4	UG/KG	SW8270D-SIM
Benzo(a)pyrene	407	3.4	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	249	3.4	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	199	3.4	UG/KG	SW8270D-SIM
Chrysene	452	3.4	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	84.4	3.4	UG/KG	SW8270D-SIM
Fluorene	35.0	3.4	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	231	3.4	UG/KG	SW8270D-SIM
Naphthalene	120	3.4	UG/KG	SW8270D-SIM
Phenanthrene	276	3.4	UG/KG	SW8270D-SIM
TOC	26200	521	MG/KG	SW9060

SAMPLE ID: EPAFMC-SD-13DL1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Manganese	915	2.60	MG/KG	SW6010B
Benzo(a)anthracene	582	17	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	672	17	UG/KG	SW8270D-SIM
Fluoranthene	962	17	UG/KG	SW8270D-SIM
Pyrene	698	17	UG/KG	SW8270D-SIM

SAMPLE ID: EPAFMC-SD-14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Aluminum	3570	7.04	MG/KG	SW6010B
Antimony	0.562 J	0.704	MG/KG	SW6010B
Arsenic	13.9	0.704	MG/KG	SW6010B
Barium	26.8	0.352	MG/KG	SW6010B
Beryllium	0.437	0.352	MG/KG	SW6010B
Calcium	12400	7.04	MG/KG	SW6010B

EXECUTIVE SUMMARY - Detection Highlights

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Chromium	45.0	0.352	MG/KG	SW6010B
Cobalt	6.51	0.352	MG/KG	SW6010B
Copper	14.3	0.352	MG/KG	SW6010B
Lead	15.2	0.563	MG/KG	SW6010B
Magnesium	4680	7.04	MG/KG	SW6010B
Nickel	5.70	0.352	MG/KG	SW6010B
Potassium	126	35.2	MG/KG	SW6010B
Sodium	45.8	21.1	MG/KG	SW6010B
Thallium	0.326 J	0.704	MG/KG	SW6010B
Vanadium	44.0	0.352	MG/KG	SW6010B
Zinc	110	0.704	MG/KG	SW6010B
Mercury	0.0186	0.0186	MG/KG	SW7471A
Anthracene	169 J	260	UG/KG	SW8270D
Benzo(a)anthracene	767	260	UG/KG	SW8270D
Benzo(a)pyrene	549	260	UG/KG	SW8270D
Benzo(b)fluoranthene	882	260	UG/KG	SW8270D
Benzo(g,h,i)perylene	324	260	UG/KG	SW8270D
Benzo(k)fluoranthene	660	260	UG/KG	SW8270D
Carbazole	142 J	260	UG/KG	SW8270D
Chrysene	815	260	UG/KG	SW8270D
Dibenzo(a,h)anthracene	124 J	260	UG/KG	SW8270D
Fluoranthene	1580	260	UG/KG	SW8270D
Indeno(1,2,3-cd)pyrene	292	260	UG/KG	SW8270D
Phenanthrene	730	260	UG/KG	SW8270D
Pyrene	1200	260	UG/KG	SW8270D
1-Methylnaphthalene	2.10 J	3.2	UG/KG	SW8270D-SIM
2-Methylnaphthalene	4.10	3.2	UG/KG	SW8270D-SIM
Acenaphthene	2.30 J	3.2	UG/KG	SW8270D-SIM
Acenaphthylene	5.40	3.2	UG/KG	SW8270D-SIM
Anthracene	7.60	3.2	UG/KG	SW8270D-SIM
Benzo(a)anthracene	36.4	3.2	UG/KG	SW8270D-SIM
Benzo(a)pyrene	32.2	3.2	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	53.5	3.2	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	21.5	3.2	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	15.0	3.2	UG/KG	SW8270D-SIM
Chrysene	33.6	3.2	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	7.40	3.2	UG/KG	SW8270D-SIM
Fluoranthene	54.1	3.2	UG/KG	SW8270D-SIM
Fluorene	4.10	3.2	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	19.1	3.2	UG/KG	SW8270D-SIM
Naphthalene	13.9	3.2	UG/KG	SW8270D-SIM
Phenanthrene	20.7	3.2	UG/KG	SW8270D-SIM
Pyrene	45.8	3.2	UG/KG	SW8270D-SIM
TOC	1640	449	MG/KG	SW9060

EXECUTIVE SUMMARY - Detection Highlights

3505843

SAMPLE ID: EPAFMC-SD-14DL1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Iron	32500	17.6	MG/KG	SW6010B
Manganese	787	1.76	MG/KG	SW6010B

SAMPLE ID: EPAFMC-SD-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Aluminum	5890	7.74	MG/KG	SW6010B
Antimony	0.550 J	0.774	MG/KG	SW6010B
Arsenic	14.4	0.774	MG/KG	SW6010B
Barium	67.7	0.387	MG/KG	SW6010B
Beryllium	0.587	0.387	MG/KG	SW6010B
Cadmium	1.46	0.387	MG/KG	SW6010B
Chromium	63.2	0.387	MG/KG	SW6010B
Cobalt	7.69	0.387	MG/KG	SW6010B
Copper	11.9	0.387	MG/KG	SW6010B
Lead	18.4	0.619	MG/KG	SW6010B
Magnesium	9660	7.74	MG/KG	SW6010B
Nickel	16.6	0.387	MG/KG	SW6010B
Potassium	283	38.7	MG/KG	SW6010B
Sodium	227	23.2	MG/KG	SW6010B
Thallium	0.271 J	0.774	MG/KG	SW6010B
Vanadium	50.5	0.387	MG/KG	SW6010B
Zinc	146	0.774	MG/KG	SW6010B
Mercury	0.0165	0.0143	MG/KG	SW7471A
1-Methylnaphthalene	1.90 J	3.2	UG/KG	SW8270D-SIM
2-Methylnaphthalene	4.20	3.2	UG/KG	SW8270D-SIM
Acenaphthene	1.40 J	3.2	UG/KG	SW8270D-SIM
Acenaphthylene	4.00	3.2	UG/KG	SW8270D-SIM
Anthracene	4.80	3.2	UG/KG	SW8270D-SIM
Benzo(a)anthracene	28.1	3.2	UG/KG	SW8270D-SIM
Benzo(a)pyrene	30.3	3.2	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	50.0	3.2	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	25.9	3.2	UG/KG	SW8270D-SIM

EXECUTIVE SUMMARY - Detection Highlights

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Benzo(k)fluoranthene	15.2	3.2	UG/KG	SW8270D-SIM
Chrysene	30.3	3.2	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	7.00	3.2	UG/KG	SW8270D-SIM
Fluoranthene	51.6	3.2	UG/KG	SW8270D-SIM
Fluorene	2.10 J	3.2	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	22.1	3.2	UG/KG	SW8270D-SIM
Naphthalene	8.80	3.2	UG/KG	SW8270D-SIM
Phenanthrene	19.1	3.2	UG/KG	SW8270D-SIM
Pyrene	43.7	3.2	UG/KG	SW8270D-SIM
TOC	14300	470	MG/KG	SW9060

SAMPLE ID: EPAFMC-SD-15DL1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Calcium	24200	38.7	MG/KG	SW6010B
Iron	35000	19.3	MG/KG	SW6010B
Manganese	851	1.93	MG/KG	SW6010B

SAMPLE ID: EPAFMC-SD-16

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Aluminum	4120	8.08	MG/KG	SW6010B
Antimony	4.95	0.808	MG/KG	SW6010B
Arsenic	12.4	0.808	MG/KG	SW6010B
Barium	56.0	0.404	MG/KG	SW6010B
Beryllium	0.389 J	0.404	MG/KG	SW6010B
Calcium	20000	8.08	MG/KG	SW6010B
Chromium	54.4	0.404	MG/KG	SW6010B
Cobalt	10.4	0.404	MG/KG	SW6010B
Copper	12.3	0.404	MG/KG	SW6010B
Iron	24300	4.04	MG/KG	SW6010B
Lead	42.7	0.646	MG/KG	SW6010B
Magnesium	8940	8.08	MG/KG	SW6010B
Nickel	14.1	0.404	MG/KG	SW6010B
Potassium	238	40.4	MG/KG	SW6010B
Sodium	93.4	24.2	MG/KG	SW6010B
Thallium	0.500 J	0.808	MG/KG	SW6010B

EXECUTIVE SUMMARY - Detection Highlights

3505843

Vanadium	34.9	0.404	MG/KG	SW6010B
Zinc	121	0.808	MG/KG	SW6010B
Mercury	0.0193	0.0156	MG/KG	SW7471A
2-Methylnaphthalene	81.5 J	270	UG/KG	SW8270D
Acenaphthylene	86.3 J	270	UG/KG	SW8270D
Anthracene	152 J	270	UG/KG	SW8270D
Benzo(a)anthracene	414	270	UG/KG	SW8270D
Benzo(a)pyrene	303	270	UG/KG	SW8270D
Benzo(b)fluoranthene	410	270	UG/KG	SW8270D
Benzo(g,h,i)perylene	164 J	270	UG/KG	SW8270D
Benzo(k)fluoranthene	329	270	UG/KG	SW8270D
Carbazole	79.3 J	270	UG/KG	SW8270D
Chrysene	438	260	UG/KG	SW8270D
Dibenzofuran	77.6 J	270	UG/KG	SW8270D
Fluoranthene	710	270	UG/KG	SW8270D
Fluorene	66.6 J	270	UG/KG	SW8270D
Indeno(1,2,3-cd)pyrene	145 J	270	UG/KG	SW8270D
Naphthalene	431	270	UG/KG	SW8270D
Phenanthrene	314	270	UG/KG	SW8270D
Pyrene	610	270	UG/KG	SW8270D
1-Methylnaphthalene	48.9	3.2	UG/KG	SW8270D-SIM
2-Methylnaphthalene	116	3.2	UG/KG	SW8270D-SIM
Acenaphthene	40.1	3.2	UG/KG	SW8270D-SIM
Acenaphthylene	94.4	3.2	UG/KG	SW8270D-SIM
Anthracene	200	3.2	UG/KG	SW8270D-SIM
Benzo(a)anthracene	398	3.2	UG/KG	SW8270D-SIM
Benzo(a)pyrene	343	3.2	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	480	3.2	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	204	3.2	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	166	3.2	UG/KG	SW8270D-SIM
Chrysene	344	3.2	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	73.2	3.2	UG/KG	SW8270D-SIM
Fluorene	98.7	3.2	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	196	3.2	UG/KG	SW8270D-SIM
Phenanthrene	359	3.2	UG/KG	SW8270D-SIM
TOC	6240	422	MG/KG	SW9060

SAMPLE ID: EPAFMC-SD-16DL1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
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EXECUTIVE SUMMARY - Detection Highlights

3505843

Manganese	703	2.02	MG/KG	SW6010B
Fluoranthene	758	16	UG/KG	SW8270D-SIM
Naphthalene	578	16	UG/KG	SW8270D-SIM
Pyrene	565	16	UG/KG	SW8270D-SIM

SAMPLE ID: EPAFMC-SW-01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Hardness	195	1.00	mg/L	A2340B
Aluminum	64.5 J	100	UG/L	SW6010B
Arsenic	7.06 J	10.0	UG/L	SW6010B
Barium	32.0	10.0	UG/L	SW6010B
Calcium	44300	100	UG/L	SW6010B
Chromium	0.901 J	10.0	UG/L	SW6010B
Iron	102	50.0	UG/L	SW6010B
Magnesium	20400	100	UG/L	SW6010B
Manganese	33.9	10.0	UG/L	SW6010B
Potassium	1130	500	UG/L	SW6010B
Sodium	26000	300	UG/L	SW6010B
Vanadium	0.565 J	10.0	UG/L	SW6010B
Zinc	4.23 J	20.0	UG/L	SW6010B
Thallium	0.507 J	2.00	UG/L	SW7841

SAMPLE ID: EPAFMC-SW-03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Hardness	203	1.00	mg/L	A2340B
Aluminum	57.3 J	100	UG/L	SW6010B
Barium	33.9	10.0	UG/L	SW6010B
Calcium	46200	100	UG/L	SW6010B
Chromium	0.813 J	10.0	UG/L	SW6010B
Iron	94.8	50.0	UG/L	SW6010B
Magnesium	21400	100	UG/L	SW6010B
Manganese	37.7	10.0	UG/L	SW6010B
Potassium	1220	500	UG/L	SW6010B
Selenium	12.9 J	20.0	UG/L	SW6010B
Sodium	27200	300	UG/L	SW6010B

EXECUTIVE SUMMARY - Detection Highlights

3505843

Vanadium	0.546 J	10.0	UG/L	SW6010B
Zinc	4.44 J	20.0	UG/L	SW6010B

Organics

Organic Data Qualifiers

- U** Indicates the analyte was analyzed for but not detected. The number adjacent to the "U" qualifier indicates the reporting limit for that analyte. The reporting limit can vary from sample to sample depending on dilution factors or the percent moisture adjustment when indicated.
- J** Indicates estimated value. It is used when the data indicates the presence of an analyte above the method detection limit (MDL) yet lower than the reporting limit.
- B** Indicates the analyte was found in the associated blank as well as in the sample. The notation indicates possible contamination of the sample.
- E** Indicates the value reported is above the highest calibration standard for that analyte. The sample should be analyzed at an appropriate dilution. "E" qualified values are estimations and the diluted result may be reported on another Form 1.
- D** Indicates the analyte has been identified in a dilution reanalysis. "D" qualifiers are used for samples that have been analyzed at a lesser dilution than required for accurate quantitation.
- C** The "C" qualifier indicates the presence of this analyte has been confirmed by GC/MS analysis.
- P** This qualifier is used for pesticide / Aroclor target analytes where there is greater than 25% difference for the detected concentration between the two GC columns.
- N** This qualifier indicates presumptive evidence of an analyte. This qualifier is only used for tentatively identified compounds (TIC), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the "N" qualifier is not used.
- A** This qualifier indicates that a TIC is a suspected aldol-condensation product.
- X** Data flagged as rejected by analyst utilizing analytical judgement.

Organic Sample ID Qualifiers

The qualifiers that may be appended to the lab sample ID and/or the client sample ID for organic analysis are defined below:

- DL** Diluted reanalysis. Indicates that the results of the original analysis of the sample contained compounds that exceeded the calibration range. The sample was diluted and reanalyzed. May be followed by a digit to indicate multiple dilutions of the sample. The results of more than one diluted reanalysis may be reported.
- R** Reanalysis. The extract was reanalyzed without re-extraction. The "R" is not used if the sample was also re-extracted. May be followed by a digit to indicate multiple reanalysis of the sample at the same dilution.
- RE** Re-extracted. The extract was reanalyzed with re-extraction. May be followed by a digit to indicate multiple re-extraction of the same sample at the same dilution.
- MS** Matrix spike (may be followed by a digit to indicate multiple matrix within a sample set).
- SD** Matrix spike duplicate (may be followed by a digit to indicate multiple matrix spike duplicate within a sample set).

8270 SIM Semi-Volatile Organics

**CASE NARRATIVE
GC/MS SEMIVOLATILE ORGANICS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

EPA SW846 8270D

IV. PREPARATION

Soil samples were prepared by SW846 EPA 3545 for 8270 semi-volatile analysis.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

All acceptance criteria were met.

C. Surrogates:

All acceptance criteria were met.

D. Spikes:

1. Laboratory Control Spikes (LCS)

All acceptance criteria were met

2. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

A client requested MS/SD set was analyzed. Please note there was considerable difference between the results of the parent, MS and MSD. All were analyzed full; however the MSD was over the calibration for many analytes, could not be reported full, and required a 10X dilution. This difference in concentration is not uncommon in soils, due to non-homogeneity.

All percent recovery and relative percent difference (RPD) criteria were met with the exception of:

**CASE NARRATIVE
GC/MS SEMIVOLATILE ORGANICS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

MS - EPAFMC-SD-07MS was analyzed with the soil samples extracted on 05/04/12. The following analytes were recovered below criteria: 1-Methylnaphthalene at 61.5 % with criteria of (71-132) and the following analyte(s) were recovered above criteria: Acenaphthylene at 132 % with criteria of (54-115), Benzo(a)anthracene at 231 % with criteria of (53-119), Benzo(a)pyrene at 177 % with criteria of (20-120), Benzo(b)fluoranthene at 242 % with criteria of (50-171), Chrysene at 188 % with criteria of (34-140), Fluoranthene at 262 % with criteria of (55-132), Indeno(1,2,3-cd)pyrene at 135 % with criteria of (19-122), Phenanthrene at 154 % with criteria of (54-112), Pyrene at 192 % with criteria of (55-123).

SD - EPAFMC-SD-07SD was analyzed with the soil samples extracted on 05/04/12. The following analytes were recovered above criteria: Acenaphthene at 475 % with criteria of (57-119), Acenaphthylene at 555 % with criteria of (54-115), Anthracene at 4436 % with criteria of (40-138), Benzo(a)anthracene at 8342 % with criteria of (53-119), Benzo(a)pyrene at 6072 % with criteria of (20-120), Benzo(b)fluoranthene at 8278 % with criteria of (50-171), Benzo(g,h,i)perylene at 3198 % with criteria of (50-150), Benzo(k)fluoranthene at 2459 % with criteria of (32-158), Chrysene at 6635 % with criteria of (34-140), Dibenzo(a,h)anthracene at 1205 % with criteria of (41-114), Fluoranthene at 15445 % with criteria of (55-132), Fluorene at 861 % with criteria of (59-118), Indeno(1,2,3-cd)pyrene at 3095 % with criteria of (19-122), Naphthalene at 204 % with criteria of (59-111), Phenanthrene at 6943 % with criteria of (54-112), Pyrene at 10662 % with criteria of (55-123). The following analytes exceeded RPD criteria: 1-Methylnaphthalene at 34.5 % with criteria of (30), 2-Methylnaphthalene at 33.7 % with criteria of (30), Acenaphthene at 129.4 % with criteria of (30), Acenaphthylene at 96.3 % with criteria of (30), Anthracene at 173.3 % with criteria of (30), Benzo(a)anthracene at 162.5 % with criteria of (30), Benzo(a)pyrene at 159.2 % with criteria of (30), Benzo(b)fluoranthene at 158.6 % with criteria of (30), Benzo(g,h,i)perylene at 153.7 % with criteria of (30), Benzo(k)fluoranthene at 145.5 % with criteria of (30), Chrysene at 156.7 % with criteria of (30), Dibenzo(a,h)anthracene at 147.3 % with criteria of (30), Fluoranthene at 167.6 % with criteria of (30), Fluorene at 131.6 % with criteria of (30), Indeno(1,2,3-cd)pyrene at 154.1 % with criteria of (30), Naphthalene at 37.7 % with criteria of (30), Phenanthrene at 169 % with criteria of (30), Pyrene at 165.6 % with criteria of (30).

No further action was taken due to the non-homogeneity of the sample matrix. Samples coded accordingly.

E. Internal Standards:

All acceptance criteria were met.

F. Samples:

Sample analysis proceeded normally.

**CASE NARRATIVE
GC/MS SEMIVOLATILE ORGANICS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

Sample EPAFMC-SD-12 required a 5X dilution due to high concentration of the following analytes: Benzo(b)fluoranthene, Fluoranthene, Naphthalene, Pyrene. Both full and diluted runs are reported.

Sample EPAFMC-SD-13 required a 5X dilution due to high concentration of the following analytes: Benzo(a)anthracene, Benzo(b)fluoranthene, Fluoranthene, Pyrene. Both full and diluted runs are reported.

Sample EPAFMC-SD-16 required a 5X dilution due to high concentration of the following analytes: Fluoranthene, Naphthalene, Pyrene. Both full and diluted runs are reported.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.



SIGNED:

DATE: 05/09/2012

CASE NARRATIVE

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

MANUAL INTEGRATION SUMMARY

The following analytes were manually integrated by the chemist.

Sample: 129056LCS Analyte: 1-Methylnaphthalene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-07 Analyte: 2-Methylnaphthalene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-07 Analyte: Benzo(b)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-07 Analyte: Benzo(k)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-07MS Analyte: Benzo(k)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-07SD Analyte: 1-Methylnaphthalene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-07SD Analyte: 2-Methylnaphthalene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-07SD Analyte: Benzo(k)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-08 Analyte: 2-Methylnaphthalene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-08 Analyte: Benzo(k)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-09 Analyte: Benzo(k)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-10 Analyte: Benzo(k)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-11 Analyte: Benzo(a)anthracene
Reason: Split Peak

Sample: EPAFMC-SD-11 Analyte: Benzo(k)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-12 Analyte: Benzo(k)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-12 Analyte: Fluorene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-12DL1 Analyte: 1-Methylnaphthalene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-12DL1 Analyte: Benzo(k)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-13 Analyte: Benzo(a)anthracene
Reason: Baseline integration, needs re-enforced due to interference on target peak

CASE NARRATIVE

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

Sample: EPAFMC-SD-13 Analyte: Benzo(b)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-13 Analyte: Benzo(k)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-13DL1 Analyte: 1-Methylnaphthalene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-13DL1 Analyte: Anthracene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-13DL1 Analyte: Benzo(b)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-13DL1 Analyte: Benzo(k)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-14 Analyte: Benzo(k)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-15 Analyte: 2-Methylnaphthalene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-15 Analyte: Benzo(k)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-15 Analyte: Dibenzo(a,h)anthracene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-16 Analyte: Benzo(k)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-16DL1 Analyte: 2-Methylnaphthalene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-16DL1 Analyte: Anthracene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-16DL1 Analyte: Benzo(b)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-16DL1 Analyte: Benzo(k)fluoranthene
Reason: Split Peak

Calibration Sample: CCV1078151 Analyte: 1-Methylnaphthalene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1078151 Analyte: Benzo(a)pyrene
Reason: Split Peak

Calibration Sample: CCV1078235 Analyte: 1-Methylnaphthalene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1078235 Analyte: Benzo(a)pyrene
Reason: Split Peak

Calibration Sample: CCV1078585 Analyte: 1-Methylnaphthalene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1078585 Analyte: 2-Methylnaphthalene
Reason: Baseline integration, needs re-enforced due to interference on target peak

CASE NARRATIVE

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

Calibration Sample: CCV1078585 Analyte: Benzo(a)pyrene

Reason: Split Peak

Calibration Sample: CCV1078585 Analyte: Naphthalene-d8

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: SSC1078135 Analyte: 1-Methylnaphthalene

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: SSC1078135 Analyte: 2-Methylnaphthalene

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: SSC1078135 Analyte: Benzo(a)pyrene

Reason: Split Peak

Calibration Sample: STD1078137 Analyte: 1-Methylnaphthalene

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1078137 Analyte: 2-Methylnaphthalene

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1078137 Analyte: Benzo(a)pyrene

Reason: Split Peak

Calibration Sample: STD1078138 Analyte: 1-Methylnaphthalene

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1078138 Analyte: 2-Methylnaphthalene

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1078138 Analyte: Benzo(a)pyrene

Reason: Split Peak

Calibration Sample: STD1078139 Analyte: 1-Methylnaphthalene

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1078139 Analyte: Benzo(a)pyrene

Reason: Split Peak

Calibration Sample: STD1078140 Analyte: 1-Methylnaphthalene

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1078140 Analyte: Benzo(a)pyrene

Reason: Split Peak

Calibration Sample: STD1078145 Analyte: Benzo(k)fluoranthene

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1078145 Analyte: Dibenzo(a,h)anthracene

Reason: Split Peak

Calibration Sample: STD1078150 Analyte: 1-Methylnaphthalene

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1078150 Analyte: Benzo(a)pyrene

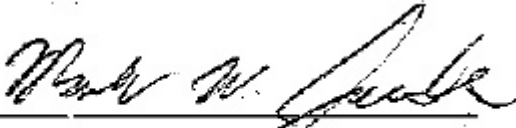
Reason: Split Peak

CASE NARRATIVE

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

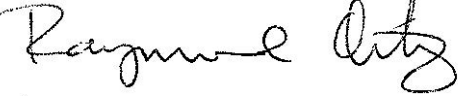
Client: OTIE

These manual integrations have been reviewed and meet all criteria in accordance with Spectrum Analytical Inc.'s SOP regarding manual integration.

Signature: 
Name: Mark Jacobs Title: Chemist

CHEMIST:
05/09/2012

DATE:



SECTION LEADER:

DATE: 05/09/2012

SEMI-VOLATILE ORGANIC CROSS REFERENCE TABLE

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No. SAS No: SDG No.: 3505843

Method: 8270 SIM

EPA Sample No	Lab Sample ID
<u>EPAFMC-SD-07</u>	<u>350584301</u>
<u>EPAFMC-SD-08</u>	<u>350584304</u>
<u>EPAFMC-SD-09</u>	<u>350584305</u>
<u>EPAFMC-SD-10</u>	<u>350584306</u>
<u>EPAFMC-SD-11</u>	<u>350584307</u>
<u>EPAFMC-SD-12</u>	<u>350584308</u>
<u>EPAFMC-SD-12DL1</u>	<u>350584308DL1</u>
<u>EPAFMC-SD-13</u>	<u>350584309</u>
<u>EPAFMC-SD-13DL1</u>	<u>350584309DL1</u>
<u>EPAFMC-SD-14</u>	<u>350584310</u>
<u>EPAFMC-SD-15</u>	<u>350584311</u>
<u>EPAFMC-SD-16</u>	<u>350584312</u>
<u>EPAFMC-SD-16DL1</u>	<u>350584312DL1</u>

8270 SIM Sample Data

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-07

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584301 Lab File ID: 84301.D

Sample wt/vol: 25.3 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 0932

PercentSolids: 75.5 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC06 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	8		1.4	3.5
91-57-6	2-Methylnaphthalene	21		1.4	3.5
83-32-9	Acenaphthene	9		1.4	3.5
208-96-8	Acenaphthylene	26		1.4	3.5
120-12-7	Anthracene	53.2		1.4	3.5
56-55-3	Benzo(a)anthracene	186		1.5	3.5
50-32-8	Benzo(a)pyrene	153		1.9	3.5
205-99-2	Benzo(b)fluoranthene	213		2	3.5
191-24-2	Benzo(g,h,i)perylene	90.9		3.2	3.5
207-08-9	Benzo(k)fluoranthene	89.3		2.2	3.5
218-01-9	Chrysene	185		1.4	3.5
53-70-3	Dibenzo(a,h)anthracene	29.2		2.7	3.5
206-44-0	Fluoranthene	318		1.4	3.5
86-73-7	Fluorene	23.6		1.4	3.5
193-39-5	Indeno(1,2,3-cd)pyrene	81		3.1	3.5
91-20-3	Naphthalene	58.4		1.5	3.5
85-01-8	Phenanthrene	124		1.4	3.5
129-00-0	Pyrene	236		1.4	3.5

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-08

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584304 Lab File ID: 84304.D

Sample wt/vol: 25.3 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 1357

PercentSolids: 97.1 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC07 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	4.5		1.1	2.7
91-57-6	2-Methylnaphthalene	9.6		1.1	2.7
83-32-9	Acenaphthene	25.2		1.1	2.7
208-96-8	Acenaphthylene	52.8		1.1	2.7
120-12-7	Anthracene	43.1		1.1	2.7
56-55-3	Benzo(a)anthracene	119		1.1	2.7
50-32-8	Benzo(a)pyrene	95.7		1.5	2.7
205-99-2	Benzo(b)fluoranthene	154		1.5	2.7
191-24-2	Benzo(g,h,i)perylene	61.4		2.5	2.7
207-08-9	Benzo(k)fluoranthene	44.9		1.7	2.7
218-01-9	Chrysene	106		1	2.7
53-70-3	Dibenzo(a,h)anthracene	18.7		2.1	2.7
206-44-0	Fluoranthene	202		1.1	2.7
86-73-7	Fluorene	14.4		1.1	2.7
193-39-5	Indeno(1,2,3-cd)pyrene	54.1		2.4	2.7
91-20-3	Naphthalene	29.5		1.1	2.7
85-01-8	Phenanthrene	81		1.1	2.7
129-00-0	Pyrene	148		1.1	2.7

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-09

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584305 Lab File ID: 84305.D

Sample wt/vol: 25.71 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 1430

PercentSolids: 77.7 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC08 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	2.8	J	1.3	3.3
91-57-6	2-Methylnaphthalene	6.4		1.3	3.3
83-32-9	Acenaphthene	3.4		1.3	3.3
208-96-8	Acenaphthylene	17.6		1.3	3.3
120-12-7	Anthracene	29.8		1.3	3.3
56-55-3	Benzo(a)anthracene	148		1.4	3.3
50-32-8	Benzo(a)pyrene	114		1.8	3.3
205-99-2	Benzo(b)fluoranthene	160		1.9	3.3
191-24-2	Benzo(g,h,i)perylene	62.3		3.1	3.3
207-08-9	Benzo(k)fluoranthene	51.6		2.1	3.3
218-01-9	Chrysene	124		1.3	3.3
53-70-3	Dibenzo(a,h)anthracene	23.7		2.6	3.3
206-44-0	Fluoranthene	199		1.3	3.3
86-73-7	Fluorene	7.5		1.3	3.3
193-39-5	Indeno(1,2,3-cd)pyrene	59.4		3	3.3
91-20-3	Naphthalene	26		1.4	3.3
85-01-8	Phenanthrene	50.1		1.3	3.3
129-00-0	Pyrene	230		1.3	3.3

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-10

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584306 Lab File ID: 84306.D

Sample wt/vol: 25.69 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 1454

PercentSolids: 79.7 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC09 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	4.6		1.3	3.2
91-57-6	2-Methylnaphthalene	11.3		1.3	3.2
83-32-9	Acenaphthene	4.2		1.3	3.2
208-96-8	Acenaphthylene	39.9		1.3	3.2
120-12-7	Anthracene	104		1.3	3.2
56-55-3	Benzo(a)anthracene	298		1.4	3.2
50-32-8	Benzo(a)pyrene	208		1.8	3.2
205-99-2	Benzo(b)fluoranthene	298		1.8	3.2
191-24-2	Benzo(g,h,i)perylene	111		3	3.2
207-08-9	Benzo(k)fluoranthene	107		2	3.2
218-01-9	Chrysene	297		1.3	3.2
53-70-3	Dibenzo(a,h)anthracene	46.3		2.5	3.2
206-44-0	Fluoranthene	423		1.3	3.2
86-73-7	Fluorene	16.6		1.3	3.2
193-39-5	Indeno(1,2,3-cd)pyrene	110		2.9	3.2
91-20-3	Naphthalene	42.8		1.4	3.2
85-01-8	Phenanthrene	106		1.3	3.2
129-00-0	Pyrene	313		1.3	3.2

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-11

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584307 Lab File ID: 84307.D

Sample wt/vol: 25.15 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 1543

PercentSolids: 78.4 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC10 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	5.3		1.3	3.4
91-57-6	2-Methylnaphthalene	9.9		1.3	3.4
83-32-9	Acenaphthene	7.7		1.3	3.4
208-96-8	Acenaphthylene	20.8		1.3	3.4
120-12-7	Anthracene	35.5		1.3	3.4
56-55-3	Benzo(a)anthracene	107		1.4	3.4
50-32-8	Benzo(a)pyrene	92.4		1.8	3.4
205-99-2	Benzo(b)fluoranthene	135		1.9	3.4
191-24-2	Benzo(g,h,i)perylene	55.8		3.1	3.4
207-08-9	Benzo(k)fluoranthene	46		2.1	3.4
218-01-9	Chrysene	88.9		1.3	3.4
53-70-3	Dibenzo(a,h)anthracene	19.7		2.6	3.4
206-44-0	Fluoranthene	185		1.3	3.4
86-73-7	Fluorene	15.3		1.3	3.4
193-39-5	Indeno(1,2,3-cd)pyrene	51.8		3	3.4
91-20-3	Naphthalene	69		1.4	3.4
85-01-8	Phenanthrene	60.8		1.3	3.4
129-00-0	Pyrene	133		1.3	3.4

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-12

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584308 Lab File ID: 84308.D

Sample wt/vol: 25.29 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 1607

PercentSolids: 84.4 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC11 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	65.8		1.2	3.1
91-57-6	2-Methylnaphthalene	162		1.2	3.1
83-32-9	Acenaphthene	36.1		1.2	3.1
208-96-8	Acenaphthylene	120		1.2	3.1
120-12-7	Anthracene	270		1.2	3.1
56-55-3	Benzo(a)anthracene	423		1.3	3.1
50-32-8	Benzo(a)pyrene	361		1.7	3.1
205-99-2	Benzo(b)fluoranthene	519	E	1.8	3.1
191-24-2	Benzo(g,h,i)perylene	215		2.9	3.1
207-08-9	Benzo(k)fluoranthene	179		2	3.1
218-01-9	Chrysene	371		1.2	3.1
53-70-3	Dibenzo(a,h)anthracene	74.7		2.4	3.1
206-44-0	Fluoranthene	782	E	1.2	3.1
86-73-7	Fluorene	116		1.2	3.1
193-39-5	Indeno(1,2,3-cd)pyrene	206		2.8	3.1
91-20-3	Naphthalene	648	E	1.3	3.1
85-01-8	Phenanthrene	422		1.2	3.1
129-00-0	Pyrene	473	E	1.2	3.1

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-12DL1

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584308DL1 Lab File ID: 84308D5.D

Sample wt/vol: 25.29 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/09/12 Time: 0952

PercentSolids: 84.4 decanted : _____ Dilution Factor: 5

Extraction: OTHER Station ID: EPAFMC11 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	71.4		6.2	15.6
91-57-6	2-Methylnaphthalene	152		6.2	15.6
83-32-9	Acenaphthene	36.9		6.2	15.6
208-96-8	Acenaphthylene	127		6.2	15.6
120-12-7	Anthracene	258		6.2	15.6
56-55-3	Benzo(a)anthracene	466		6.6	15.6
50-32-8	Benzo(a)pyrene	357		8.4	15.6
205-99-2	Benzo(b)fluoranthene	544		8.9	15.6
191-24-2	Benzo(g,h,i)perylene	202		14.5	15.6
207-08-9	Benzo(k)fluoranthene	153		9.8	15.6
218-01-9	Chrysene	408		6.1	15.6
53-70-3	Dibenzo(a,h)anthracene	70.6		12.2	15.6
206-44-0	Fluoranthene	764		6.2	15.6
86-73-7	Fluorene	111		6.2	15.6
193-39-5	Indeno(1,2,3-cd)pyrene	193		14	15.6
91-20-3	Naphthalene	666		6.6	15.6
85-01-8	Phenanthrene	412		6.2	15.6
129-00-0	Pyrene	532		6.2	15.6

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-13

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584309 Lab File ID: 84309.D

Sample wt/vol: 25.39 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 1631

PercentSolids: 78 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC12 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	16.2		1.3	3.4
91-57-6	2-Methylnaphthalene	35		1.3	3.4
83-32-9	Acenaphthene	22.8		1.3	3.4
208-96-8	Acenaphthylene	68.7		1.3	3.4
120-12-7	Anthracene	143		1.3	3.4
56-55-3	Benzo(a)anthracene	518	E	1.4	3.4
50-32-8	Benzo(a)pyrene	407		1.8	3.4
205-99-2	Benzo(b)fluoranthene	595	E	1.9	3.4
191-24-2	Benzo(g,h,i)perylene	249		3.1	3.4
207-08-9	Benzo(k)fluoranthene	199		2.1	3.4
218-01-9	Chrysene	452		1.3	3.4
53-70-3	Dibenzo(a,h)anthracene	84.4		2.6	3.4
206-44-0	Fluoranthene	827	E	1.3	3.4
86-73-7	Fluorene	35		1.3	3.4
193-39-5	Indeno(1,2,3-cd)pyrene	231		3	3.4
91-20-3	Naphthalene	120		1.4	3.4
85-01-8	Phenanthrene	276		1.3	3.4
129-00-0	Pyrene	610	E	1.3	3.4

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13 EPAFMC-SD-13DL1

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584309DL1 Lab File ID: 84309D5.D

Sample wt/vol: 25.39 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/09/12 Time: 1016

PercentSolids: 78 decanted : _____ Dilution Factor: 5

Extraction: OTHER Station ID: EPAFMC12 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	20		6.7	16.8
91-57-6	2-Methylnaphthalene	38.1		6.7	16.8
83-32-9	Acenaphthene	26		6.7	16.8
208-96-8	Acenaphthylene	77.5		6.7	16.8
120-12-7	Anthracene	170		6.7	16.8
56-55-3	Benzo(a)anthracene	582		7.1	16.8
50-32-8	Benzo(a)pyrene	459		9.1	16.8
205-99-2	Benzo(b)fluoranthene	672		9.6	16.8
191-24-2	Benzo(g,h,i)perylene	270		15.6	16.8
207-08-9	Benzo(k)fluoranthene	272		10.6	16.8
218-01-9	Chrysene	520		6.6	16.8
53-70-3	Dibenzo(a,h)anthracene	85.9		13.1	16.8
206-44-0	Fluoranthene	962		6.7	16.8
86-73-7	Fluorene	40.3		6.7	16.8
193-39-5	Indeno(1,2,3-cd)pyrene	254		15.1	16.8
91-20-3	Naphthalene	135		7.1	16.8
85-01-8	Phenanthrene	318		6.7	16.8
129-00-0	Pyrene	698		6.7	16.8

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-14

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584310 Lab File ID: 84310.D

Sample wt/vol: 25.82 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 1655

PercentSolids: 80.6 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC13 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	2.1	J	1.3	3.2
91-57-6	2-Methylnaphthalene	4.1		1.3	3.2
83-32-9	Acenaphthene	2.3	J	1.3	3.2
208-96-8	Acenaphthylene	5.4		1.3	3.2
120-12-7	Anthracene	7.6		1.3	3.2
56-55-3	Benzo(a)anthracene	36.4		1.3	3.2
50-32-8	Benzo(a)pyrene	32.2		1.7	3.2
205-99-2	Benzo(b)fluoranthene	53.5		1.8	3.2
191-24-2	Benzo(g,h,i)perylene	21.5		3	3.2
207-08-9	Benzo(k)fluoranthene	15		2	3.2
218-01-9	Chrysene	33.6		1.2	3.2
53-70-3	Dibenzo(a,h)anthracene	7.4		2.5	3.2
206-44-0	Fluoranthene	54.1		1.3	3.2
86-73-7	Fluorene	4.1		1.3	3.2
193-39-5	Indeno(1,2,3-cd)pyrene	19.1		2.9	3.2
91-20-3	Naphthalene	13.9		1.3	3.2
85-01-8	Phenanthrene	20.7		1.3	3.2
129-00-0	Pyrene	45.8		1.3	3.2

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-15

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584311 Lab File ID: 84311.D

Sample wt/vol: 25.09 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 1719

PercentSolids: 82.2 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC14 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	1.9	J	1.3	3.2
91-57-6	2-Methylnaphthalene	4.2		1.3	3.2
83-32-9	Acenaphthene	1.4	J	1.3	3.2
208-96-8	Acenaphthylene	4		1.3	3.2
120-12-7	Anthracene	4.8		1.3	3.2
56-55-3	Benzo(a)anthracene	28.1		1.4	3.2
50-32-8	Benzo(a)pyrene	30.3		1.7	3.2
205-99-2	Benzo(b)fluoranthene	50		1.8	3.2
191-24-2	Benzo(g,h,i)perylene	25.9		3	3.2
207-08-9	Benzo(k)fluoranthene	15.2		2	3.2
218-01-9	Chrysene	30.3		1.3	3.2
53-70-3	Dibenzo(a,h)anthracene	7		2.5	3.2
206-44-0	Fluoranthene	51.6		1.3	3.2
86-73-7	Fluorene	2.1	J	1.3	3.2
193-39-5	Indeno(1,2,3-cd)pyrene	22.1		2.9	3.2
91-20-3	Naphthalene	8.8		1.4	3.2
85-01-8	Phenanthrene	19.1		1.3	3.2
129-00-0	Pyrene	43.7		1.3	3.2

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-16

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584312 Lab File ID: 84312.D

Sample wt/vol: 25.57 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 1744

PercentSolids: 80.1 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC11 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	48.9		1.3	3.2
91-57-6	2-Methylnaphthalene	116		1.3	3.2
83-32-9	Acenaphthene	40.1		1.3	3.2
208-96-8	Acenaphthylene	94.4		1.3	3.2
120-12-7	Anthracene	200		1.3	3.2
56-55-3	Benzo(a)anthracene	398		1.4	3.2
50-32-8	Benzo(a)pyrene	343		1.8	3.2
205-99-2	Benzo(b)fluoranthene	480		1.8	3.2
191-24-2	Benzo(g,h,i)perylene	204		3	3.2
207-08-9	Benzo(k)fluoranthene	166		2	3.2
218-01-9	Chrysene	344		1.3	3.2
53-70-3	Dibenzo(a,h)anthracene	73.2		2.5	3.2
206-44-0	Fluoranthene	678	E	1.3	3.2
86-73-7	Fluorene	98.7		1.3	3.2
193-39-5	Indeno(1,2,3-cd)pyrene	196		2.9	3.2
91-20-3	Naphthalene	502	E	1.4	3.2
85-01-8	Phenanthrene	359		1.3	3.2
129-00-0	Pyrene	502	E	1.3	3.2

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-16DL1

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584312DL1 Lab File ID: 84312D5.D

Sample wt/vol: 25.57 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/09/12 Time: 1040

PercentSolids: 80.1 decanted : _____ Dilution Factor: 5

Extraction: OTHER Station ID: EPAFMC11 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	53.4		6.5	16.2
91-57-6	2-Methylnaphthalene	63.9		6.5	16.2
83-32-9	Acenaphthene	43.6		6.5	16.2
208-96-8	Acenaphthylene	101		6.5	16.2
120-12-7	Anthracene	238		6.5	16.2
56-55-3	Benzo(a)anthracene	439		6.8	16.2
50-32-8	Benzo(a)pyrene	395		8.8	16.2
205-99-2	Benzo(b)fluoranthene	544		9.3	16.2
191-24-2	Benzo(g,h,i)perylene	218		15.1	16.2
207-08-9	Benzo(k)fluoranthene	182		10.2	16.2
218-01-9	Chrysene	384		6.3	16.2
53-70-3	Dibenzo(a,h)anthracene	75.6		12.7	16.2
206-44-0	Fluoranthene	758		6.5	16.2
86-73-7	Fluorene	103		6.5	16.2
193-39-5	Indeno(1,2,3-cd)pyrene	211		14.6	16.2
91-20-3	Naphthalene	578		6.8	16.2
85-01-8	Phenanthrene	401		6.5	16.2
129-00-0	Pyrene	565		6.5	16.2

8270 SIM QC Summary

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
129055MB

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 129055MB Lab File ID: 9311MB.D

Sample wt/vol: 20.21 Units: G Date Received: 05/04/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/07/12 Time: 1348

PercentSolids: 100 decanted : (_____) Dilution Factor: 1

Extraction: OTHER Station ID: _____ Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	1.3	U	1.3	3.3
91-57-6	2-Methylnaphthalene	1.3	U	1.3	3.3
83-32-9	Acenaphthene	1.3	U	1.3	3.3
208-96-8	Acenaphthylene	1.3	U	1.3	3.3
120-12-7	Anthracene	1.3	U	1.3	3.3
56-55-3	Benzo(a)anthracene	1.4	U	1.4	3.3
50-32-8	Benzo(a)pyrene	1.8	U	1.8	3.3
205-99-2	Benzo(b)fluoranthene	1.9	U	1.9	3.3
191-24-2	Benzo(g,h,i)perylene	3.1	U	3.1	3.3
207-08-9	Benzo(k)fluoranthene	2.1	U	2.1	3.3
218-01-9	Chrysene	1.3	U	1.3	3.3
53-70-3	Dibenzo(a,h)anthracene	2.6	U	2.6	3.3
206-44-0	Fluoranthene	1.3	U	1.3	3.3
86-73-7	Fluorene	1.3	U	1.3	3.3
193-39-5	Indeno(1,2,3-cd)pyrene	3	U	3	3.3
91-20-3	Naphthalene	1.4	U	1.4	3.3
85-01-8	Phenanthrene	1.3	U	1.3	3.3
129-00-0	Pyrene	1.3	U	1.3	3.3

SEMI-VOLATILE ORGANIC METHOD BLANK SUMMARY

Lab Name: Spectrum Analytical, Inc Contract: OTIE- Five Mile Creek / Site 1392 EPA Sample No. 129055MB

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Lab File ID: 9311MB.D Lab Sample ID: 129055MB

Instrument ID: SMSD01 Date Extracted: 05/04/12

Matrix: SOIL Date Analyzed: 05/07/12

Level:(low/med) LOW Time Analyzed: 1348

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	129056LCS	129056LCS	9311LCS.D	05/07/12	1437
2	EPAFMC-SD-07	350584301	84301.D	05/08/12	0932
3	EPAFMC-SD-07MS	350584302	84302.D	05/08/12	0956
4	EPAFMC-SD-08	350584304	84304.D	05/08/12	1357
5	EPAFMC-SD-09	350584305	84305.D	05/08/12	1430
6	EPAFMC-SD-10	350584306	84306.D	05/08/12	1454
7	EPAFMC-SD-07SD	350584303	84303D10.D	05/08/12	1519
8	EPAFMC-SD-11	350584307	84307.D	05/08/12	1543
9	EPAFMC-SD-12	350584308	84308.D	05/08/12	1607
10	EPAFMC-SD-13	350584309	84309.D	05/08/12	1631
11	EPAFMC-SD-14	350584310	84310.D	05/08/12	1655
12	EPAFMC-SD-15	350584311	84311.D	05/08/12	1719
13	EPAFMC-SD-16	350584312	84312.D	05/08/12	1744
14	EPAFMC-SD-12DL1	350584308DL1	84308D5.D	05/09/12	0952
15	EPAFMC-SD-13DL1	350584309DL1	84309D5.D	05/09/12	1016
16	EPAFMC-SD-16DL1	350584312DL1	84312D5.D	05/09/12	1040

COMMENTS:

SOIL SEMI-VOLATILE ORGANIC SURROGATE RECOVERY

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1Lab Code : PEL Case No. SAS No: SDG NO.: 3505843Column(1): HPMS-5 ID: 0.25 (mm)

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
129055MB	88.7	99.2					0
129056LCS	80.9	83.3					0
EPAFMC-SD-07	71.4	69.8					0
EPAFMC-SD-07MS	68.8	59.2					0
EPAFMC-SD-07SD	86.3	74.9					0
EPAFMC-SD-08	69.6	77.0					0
EPAFMC-SD-09	75.2	70.8					0
EPAFMC-SD-10	68.9	100.0					0
EPAFMC-SD-11	75.2	130.0					0
EPAFMC-SD-12	71.8	68.4					0
EPAFMC-SD-12DL1	77.8	71.8					0
EPAFMC-SD-13	71.4	61.9					0
EPAFMC-SD-13DL1	77.8	70.2					0
EPAFMC-SD-14	57.9	50.8					0
EPAFMC-SD-15	52.9	51.2					0
EPAFMC-SD-16	71.7	65.6					0
EPAFMC-SD-16DL1	75.8	74.2					0

Control Limits

S1 = p-Terphenyl-d14 43 - 145

S2 = 2-Fluorobiphenyl 43 - 145

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

Control limit source: (lab/method) METHOD

Form II

**SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION -
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)**

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. SAS No: SDG No.: 3505843
 Lab File ID: DFTPP2.D DFTPP Injection Date: 05/07/12
 Instrument ID: SMSD01 DFTPP Injection Time: 0735
 GC Column: HPMS-5 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.2
68	Less than 2.0% of mass 69	0.7 (1.62)1
69	Mass 69 relative abundance	42.7
70	Less than 2.0% of mass 69	0.2 (0.44)1
127	10.0 - 80.0% of mass 198	49.3
197	Less than 2.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	28.3
365	Greater than 1.0% of mass 198	3.5
441	0.0 - 24.0% of mass 442	9.3 (15.02)2
442	Greater than 50.0% of mass 198	61.8
443	15.0 - 24.0% of mass 442	12.6 (20.37)2

1-Value is % of mass 69

2-Value is % of mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	STD1078145	45403	SIMCAL1.D	05/07/12	0802
2	STD1078144	45402	SIMCAL2.D	05/07/12	0825
3	STD1078143	45401	SIMCAL3.D	05/07/12	0849
4	STD1078142	45400	SIMCAL4.D	05/07/12	0913
5	STD1078141	45399	SIMCAL5.D	05/07/12	0937
6	STD1078150	46068	SIMCAL6.D	05/07/12	1001
7	STD1078140	45397	SIMCAL7.D	05/07/12	1025
8	STD1078139	45396	SIMCAL8.D	05/07/12	1049
9	STD1078138	45395	SIMCAL9.D	05/07/12	1113
10	STD1078137	45394	SIMCAL10.D	05/07/12	1137
11	SSC1078135	44830	SIMSEC.D	05/07/12	1201

**SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION -
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)**

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. SAS No: SDG No.: 3505843
 Lab File ID: DFTPP4.D DFTPP Injection Date: 05/07/12
 Instrument ID: SMSD01 DFTPP Injection Time: 1303
 GC Column: HPMS-5 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.5
68	Less than 2.0% of mass 69	0.1 (0.26)1
69	Mass 69 relative abundance	37.7
70	Less than 2.0% of mass 69	0.2 (0.63)1
127	10.0 - 80.0% of mass 198	47.8
197	Less than 2.0% of mass 198	0
198	Base Peak, 100% relative abundance	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	31.5
365	Greater than 1.0% of mass 198	4.8
441	0.0 - 24.0% of mass 442	11.9 (15.5)2
442	Greater than 50.0% of mass 198	76.9
443	15.0 - 24.0% of mass 442	14.4 (18.71)2

1-Value is % of mass 69

2-Value is % of mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV1078151	46068	SIMCCV1.D	05/07/12	1324
2	129055MB	129055MB	9311MB.D	05/07/12	1348
3	129056LCS	129056LCS	9311LCS.D	05/07/12	1437

**SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION -
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)**

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. SAS No: SDG No.: 3505843
 Lab File ID: DFTPP1.D DFTPP Injection Date: 05/08/12
 Instrument ID: SMSD01 DFTPP Injection Time: 0706
 GC Column: HPMS-5 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.3
68	Less than 2.0% of mass 69	0.2 (0.57)1
69	Mass 69 relative abundance	40.3
70	Less than 2.0% of mass 69	0.2 (0.57)1
127	10.0 - 80.0% of mass 198	48.3
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	30.2
365	Greater than 1.0% of mass 198	3.9
441	0.0 - 24.0% of mass 442	11.9 (15.4)2
442	Greater than 50.0% of mass 198	77.4
443	15.0 - 24.0% of mass 442	14.7 (19)2

1-Value is % of mass 69

2-Value is % of mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV1078235	46068	SIMCCV1.D	05/08/12	0726
2	EPAFMC-SD-07	350584301	84301.D	05/08/12	0932
3	EPAFMC-SD-07MS	350584302	84302.D	05/08/12	0956
4	EPAFMC-SD-08	350584304	84304.D	05/08/12	1357
5	EPAFMC-SD-09	350584305	84305.D	05/08/12	1430
6	EPAFMC-SD-10	350584306	84306.D	05/08/12	1454
7	EPAFMC-SD-07SD	350584303	84303D10.D	05/08/12	1519
8	EPAFMC-SD-11	350584307	84307.D	05/08/12	1543
9	EPAFMC-SD-12	350584308	84308.D	05/08/12	1607
10	EPAFMC-SD-13	350584309	84309.D	05/08/12	1631
11	EPAFMC-SD-14	350584310	84310.D	05/08/12	1655
12	EPAFMC-SD-15	350584311	84311.D	05/08/12	1719
13	EPAFMC-SD-16	350584312	84312.D	05/08/12	1744

**SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION -
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)**

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. SAS No: SDG No.: 3505843
 Lab File ID: DFTPP1.D DFTPP Injection Date: 05/09/12
 Instrument ID: SMSD01 DFTPP Injection Time: 0706
 GC Column: HPMS-5 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34
68	Less than 2.0% of mass 69	0.1 (0.2)1
69	Mass 69 relative abundance	38.9
70	Less than 2.0% of mass 69	0.3 (0.73)1
127	10.0 - 80.0% of mass 198	48
197	Less than 2.0% of mass 198	0
198	Base Peak, 100% relative abundance	100
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	29.2
365	Greater than 1.0% of mass 198	3.7
441	0.0 - 24.0% of mass 442	13 (15.78)2
442	Greater than 50.0% of mass 198	82.3
443	15.0 - 24.0% of mass 442	15.8 (19.22)2

1-Value is % of mass 69

2-Value is % of mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV1078585	46068	SIMCCV1.D	05/09/12	0725
2	EPAFMC-SD-12DL1	350584308DL1	84308D5.D	05/09/12	0952
3	EPAFMC-SD-13DL1	350584309DL1	84309D5.D	05/09/12	1016
4	EPAFMC-SD-16DL1	350584312DL1	84312D5.D	05/09/12	1040

8A

SEMI-VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Lab File ID (Standard): SIMCAL6.D Date Analyzed: 5/7/2012
 Instrument ID: SMSD01 Time Analyzed: 10:01
 GC Column: HPMS-5 ID: 0.25 (mm)

	IS1 AREA #	RT	IS2 AREA #	RT	IS3 AREA #	RT	
MID CAL STD	14769	4.25	54933	5.41	32728	7.11	
UPPER LIMIT	29538	4.75	109866	5.91	65456	7.61	
LOWER LIMIT	7384.5	3.75	27466.5	4.91	16364	6.61	
EPA SAMPLE NO.							
1	129055MB	12959	4.25	47062	5.41	28890	7.11
2	129056LCS	13035	4.25	46903	5.41	28814	7.11
3	EPAFMC-SD-07	16324	4.25	53054	5.41	32768	7.11
4	EPAFMC-SD-07MS	15469	4.25	54439	5.41	33909	7.10
5	EPAFMC-SD-08	8945	4.25	31807	5.41	20156	7.11
6	EPAFMC-SD-09	9534	4.25	33616	5.41	22082	7.11
7	EPAFMC-SD-10	9138	4.25	32815	5.41	21734	7.11
8	EPAFMC-SD-07SD	9165	4.25	34353	5.41	22212	7.11
9	EPAFMC-SD-11	8917	4.25	32189	5.41	21126	7.11
10	EPAFMC-SD-12	9317	4.25	33597	5.41	21849	7.11
11	EPAFMC-SD-13	8697	4.25	31427	5.41	20145	7.11
12	EPAFMC-SD-14	8730	4.25	32898	5.41	20700	7.11
13	EPAFMC-SD-15	9377	4.25	35133	5.41	22262	7.11
14	EPAFMC-SD-16	9097	4.25	32766	5.41	20920	7.11
15	EPAFMC-SD-12DL1	9718	4.25	35558	5.41	22391	7.11
16	EPAFMC-SD-13DL1	9040	4.25	34110	5.41	20886	7.11
17	EPAFMC-SD-16DL1	9086	4.25	33675	5.41	21594	7.11

IS1 = 1,4-Dichlorobenzene-d4

IS2 = Naphthalene-d8

IS3 = Acenaphthene-d10

UPPER LIMIT = +100%
of internal standard area.
LOWER LIMIT = -50%
of internal standard area

Column used to flag internal standard area values with an asterisk

SEMI-VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Lab File ID (Standard): SIMCAL6.D Date Analyzed: 5/7/2012
 Instrument ID: SMSD01 Time Analyzed: 10:01
 GC Column: HPMS-5 ID: 0.25 (mm)

	IS4 AREA #	RT	IS5 AREA #	RT	IS6 AREA #	RT	
MID CAL STD	58351	8.56	65441	11.15	61576	12.45	
UPPER LIMIT	116702	9.06	130882	11.65	123152	12.95	
LOWER LIMIT	29175.5	8.06	32720.5	10.65	30788	11.95	
EPA SAMPLE NO.							
1	129055MB	52923	8.56	61338	11.15	58251	12.46
2	129056LCS	53088	8.56	60537	11.15	56921	12.46
3	EPAFMC-SD-07	60644	8.56	67247	11.15	67870	12.45
4	EPAFMC-SD-07MS	63037	8.55	70543	11.15	71916	12.45
5	EPAFMC-SD-08	37366	8.56	42769	11.15	43820	12.46
6	EPAFMC-SD-09	40703	8.56	46480	11.15	49577	12.46
7	EPAFMC-SD-10	40826	8.56	46137	11.15	48613	12.46
8	EPAFMC-SD-07SD	41149	8.56	47430	11.15	48951	12.46
9	EPAFMC-SD-11	39346	8.56	45274	11.15	46514	12.46
10	EPAFMC-SD-12	38606	8.56	53282	11.15	48752	12.46
11	EPAFMC-SD-13	38316	8.56	43336	11.15	46759	12.46
12	EPAFMC-SD-14	38620	8.56	45577	11.15	47660	12.46
13	EPAFMC-SD-15	41480	8.56	48268	11.15	50052	12.46
14	EPAFMC-SD-16	39120	8.56	45050	11.15	47958	12.46
15	EPAFMC-SD-12DL1	42467	8.56	50632	11.15	50654	12.45
16	EPAFMC-SD-13DL1	39635	8.56	45850	11.15	47927	12.45
17	EPAFMC-SD-16DL1	40395	8.56	46701	11.15	48060	12.46

IS4 = Phenanthrene-d10

IS5 = Chrysene-d12

IS6 = Perylene-d12

UPPER LIMIT = +100%
of internal standard area.
LOWER LIMIT = -50%
of internal standard area

Column used to flag internal standard area values with an asterisk

SEMI-VOLATILE ORGANIC ANALYTICAL SEQUENCE

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 GC Column: HPMS-5 ID: 0.25 (mm) Init. Calib. Date: 05/07/12
 Instrument ID: SMSD01

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

MIDCAL SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 10.12			S2 : 6.45			
CLIENT SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
1	ZZZZZZ	ZZZZZZ	05/07/12	0716		
2	DFTPP2	45777	05/07/12	0735		
3	STD1078145	45403	05/07/12	0802	10.12	6.45
4	STD1078144	45402	05/07/12	0825	10.12	6.45
5	STD1078143	45401	05/07/12	0849	10.12	6.45
6	STD1078142	45400	05/07/12	0913	10.12	6.45
7	STD1078141	45399	05/07/12	0937	10.12	6.45
8	STD1078150	46068	05/07/12	1001	10.12	6.45
9	STD1078140	45397	05/07/12	1025	10.12	6.45
10	STD1078139	45396	05/07/12	1049	10.12	6.45
11	STD1078138	45395	05/07/12	1113	10.12	6.45
12	STD1078137	45394	05/07/12	1137	10.12	6.45
13	SSC1078135	44830	05/07/12	1201	10.12	6.45
14	ZZZZZZ	ZZZZZZ	05/07/12	1225		
15	DFTPP4	45777	05/07/12	1303		
16	CCV1078151	46068	05/07/12	1324	10.12	6.45
17	129055MB	129055MB	05/07/12	1348	10.12	6.45
18	ZZZZZZ	ZZZZZZ	05/07/12	1413		
19	129056LCS	129056LCS	05/07/12	1437	10.12	6.45
20	ZZZZZZ	ZZZZZZ	05/07/12	1501		
21	ZZZZZZ	ZZZZZZ	05/07/12	1525		
22	ZZZZZZ	ZZZZZZ	05/07/12	1550		
23	ZZZZZZ	ZZZZZZ	05/07/12	1614		
24	ZZZZZZ	ZZZZZZ	05/07/12	1638		
25	ZZZZZZ	ZZZZZZ	05/07/12	1703		
26	ZZZZZZ	ZZZZZZ	05/07/12	1727		

QC LIMITS

S1 = p-Terphenyl-d14 (+/- 0.67 MINUTES)
 S2 = 2-Fluorobiphenyl (+/- 0.43 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits

SEMI-VOLATILE ORGANIC ANALYTICAL SEQUENCE

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 GC Column: HPMS-5 ID: 0.25 (mm) Init. Calib. Date: 05/07/12
 Instrument ID: SMSD01

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

MIDCAL SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 10.12			S2 : 6.45			
CLIENT SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
27	ZZZZZZ	ZZZZZZ	05/07/12	1752		
28	ZZZZZZ	ZZZZZZ	05/07/12	1816		
29	ZZZZZZ	ZZZZZZ	05/07/12	1840		
30	ZZZZZZ	ZZZZZZ	05/07/12	1904		
31	ZZZZZZ	ZZZZZZ	05/07/12	1929		
32	ZZZZZZ	ZZZZZZ	05/07/12	1953		
33	ZZZZZZ	ZZZZZZ	05/07/12	2017		
34	ZZZZZZ	ZZZZZZ	05/07/12	2040		
35	ZZZZZZ	ZZZZZZ	05/07/12	2104		
36	ZZZZZZ	ZZZZZZ	05/07/12	2128		
37	ZZZZZZ	ZZZZZZ	05/07/12	2152		
38	ZZZZZZ	ZZZZZZ	05/07/12	2216		
39	ZZZZZZ	ZZZZZZ	05/07/12	2240		
40	ZZZZZZ	ZZZZZZ	05/07/12	2304		
41	ZZZZZZ	ZZZZZZ	05/07/12	2328		
42	ZZZZZZ	ZZZZZZ	05/07/12	2352		
43	ZZZZZZ	ZZZZZZ	05/08/12	0015		
44	ZZZZZZ	ZZZZZZ	05/08/12	0039		
45	ZZZZZZ	ZZZZZZ	05/08/12	0103		
46	DFTPP1	45777	DFTPP1.D	05/08/12	0706	
47	CCV1078235	46068	SIMCCV1.D	05/08/12	0726	10.12 6.45
48	ZZZZZZ	ZZZZZZ	ZZZZZZ	05/08/12	0754	
49	ZZZZZZ	ZZZZZZ	ZZZZZZ	05/08/12	0818	
50	ZZZZZZ	ZZZZZZ	ZZZZZZ	05/08/12	0906	
51	EPAFMC-SD-07	350584301	84301.D	05/08/12	0932	10.12 6.45
52	EPAFMC-SD-07MS	350584302	84302.D	05/08/12	0956	10.12 6.45

QC LIMITS

S1 = p-Terphenyl-d14 (+/- 0.67 MINUTES)
 S2 = 2-Fluorobiphenyl (+/- 0.43 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits

SEMI-VOLATILE ORGANIC ANALYTICAL SEQUENCE

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 GC Column: HPMS-5 ID: 0.25 (mm) Init. Calib. Date: 05/07/12
 Instrument ID: SMSD01

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

MIDCAL SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 10.12			S2 : 6.45			
CLIENT SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
53	ZZZZZZ	ZZZZZZ	05/08/12	1021		
54	ZZZZZZ	ZZZZZZ	05/08/12	1045		
55	ZZZZZZ	ZZZZZZ	05/08/12	1109		
56	ZZZZZZ	ZZZZZZ	05/08/12	1133		
57	ZZZZZZ	ZZZZZZ	05/08/12	1157		
58	ZZZZZZ	ZZZZZZ	05/08/12	1221		
59	ZZZZZZ	ZZZZZZ	05/08/12	1245		
60	ZZZZZZ	ZZZZZZ	05/08/12	1309		
61	ZZZZZZ	ZZZZZZ	05/08/12	1333		
62	EPAFMC-SD-08	350584304	84304.D	05/08/12	1357	10.12 6.45
63	EPAFMC-SD-09	350584305	84305.D	05/08/12	1430	10.12 6.45
64	EPAFMC-SD-10	350584306	84306.D	05/08/12	1454	10.12 6.45
65	EPAFMC-SD-07SD	350584303	84303D10.D	05/08/12	1519	10.12 6.45
66	EPAFMC-SD-11	350584307	84307.D	05/08/12	1543	10.12 6.45
67	EPAFMC-SD-12	350584308	84308.D	05/08/12	1607	10.12 6.45
68	EPAFMC-SD-13	350584309	84309.D	05/08/12	1631	10.12 6.45
69	EPAFMC-SD-14	350584310	84310.D	05/08/12	1655	10.12 6.45
70	EPAFMC-SD-15	350584311	84311.D	05/08/12	1719	10.12 6.45
71	EPAFMC-SD-16	350584312	84312.D	05/08/12	1744	10.12 6.45
72	ZZZZZZ	ZZZZZZ	05/08/12	1808		
73	ZZZZZZ	ZZZZZZ	05/08/12	1832		
74	ZZZZZZ	ZZZZZZ	05/08/12	1856		
75	DFTPP1	45777	DFTPP1.D	05/09/12	0706	
76	CCV1078585	46068	SIMCCV1.D	05/09/12	0725	10.12 6.45
77	ZZZZZZ	ZZZZZZ	05/09/12	0752		
78	ZZZZZZ	ZZZZZZ	05/09/12	0816		

QC LIMITS

S1 = p-Terphenyl-d14 (+/- 0.67 MINUTES)
 S2 = 2-Fluorobiphenyl (+/- 0.43 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits

SEMI-VOLATILE ORGANIC ANALYTICAL SEQUENCE

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 GC Column: HPMS-5 ID: 0.25 (mm) Init. Calib. Date: 05/07/12
 Instrument ID: SMSD01

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

MIDCAL SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 10.12			S2 : 6.45			
CLIENT SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
79	ZZZZZZ	ZZZZZZ	05/09/12	0840		
80	ZZZZZZ	ZZZZZZ	05/09/12	0904		
81	ZZZZZZ	ZZZZZZ	05/09/12	0928		
82	EPAFMC-SD-12DL1	350584308DL1	84308D5.D	05/09/12	0952	10.12 6.45
83	EPAFMC-SD-13DL1	350584309DL1	84309D5.D	05/09/12	1016	10.12 6.45
84	EPAFMC-SD-16DL1	350584312DL1	84312D5.D	05/09/12	1040	10.12 6.45

QC LIMITS

S1 = p-Terphenyl-d14 (+/- 0.67 MINUTES)
 S2 = 2-Fluorobiphenyl (+/- 0.43 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits

SEMI-VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1

129056LCS

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	LCS CONCENTRATION ug/Kg	LCS % REC #	LCS % RPD	QC LIMITS	
					RPD	REC.
1-Methylnaphthalene	24.6	18	73.2			49 - 127
2-Methylnaphthalene	24.6	20.7	84.1			31 - 149
Acenaphthene	24.6	20.2	82.1			47 - 127
Acenaphthylene	24.6	19.7	80.1			45 - 129
Anthracene	24.6	26.5	108.0			56 - 123
Benzo(a)anthracene	24.6	23.4	95.1			39 - 140
Benzo(a)pyrene	24.6	23.1	93.9			52 - 130
Benzo(b)fluoranthene	24.6	23.2	94.3			40 - 143
Benzo(g,h,i)perylene	24.6	22.7	92.3			48 - 133
Benzo(k)fluoranthene	24.6	23.3	94.7			49 - 131
Chrysene	24.6	22.8	92.7			50 - 132
Dibenzo(a,h)anthracene	24.6	23.3	94.7			51 - 130
Fluoranthene	24.6	24.6	100.0			46 - 135
Fluorene	24.6	21.2	86.2			52 - 125
Indeno(1,2,3-cd)pyrene	24.6	23.9	97.2			48 - 135
Naphthalene	24.6	20	81.3			44 - 140
Phenanthrene	24.6	22.7	92.3			48 - 131
Pyrene	24.6	22.8	92.7			45 - 133

Spike Recovery: 0 out of 18 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek /

EPAFMC-SD-07MS

Lab Code : PEL Case No.: SAS No: SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC #	QC LIMITS REC.
1-Methylnaphthalene	26	8.0	24	61.5*	71 - 132
2-Methylnaphthalene	26	21	38	67.3	54 - 145
Acenaphthene	26	9.0	29	75.8	57 - 119
Acenaphthylene	26	26	60	132.0*	54 - 115
Anthracene	26	53	87	131.0	40 - 138
Benzo(a)anthracene	26	190	250	231.0*	53 - 119
Benzo(a)pyrene	26	150	200	177.0*	20 - 120
Benzo(b)fluoranthene	26	210	280	242.0*	50 - 171
Benzo(g,h,i)perylene	26	91	120	120.0	50 - 150
Benzo(k)fluoranthene	26	89	120	103.0	32 - 158
Chrysene	26	180	230	188.0*	34 - 140
Dibenzo(a,h)anthracene	26	29	52	89.6	41 - 114
Fluoranthene	26	320	390	262.0*	55 - 132
Fluorene	26	24	52	108.0	59 - 118
Indeno(1,2,3-cd)pyrene	26	81	120	135.0*	19 - 122
Naphthalene	26	58	76	69.6	59 - 111
Phenanthrene	26	120	160	154.0*	54 - 112
Pyrene	26	240	290	192.0*	55 - 123

Spike Recovery: 10 out of 18 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Cre

EPAFMC-SD-07SD

Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	MSD CONCENTRATION ug/Kg	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
1-Methylnaphthalene	26	34	98.9	34.5 *	30	71 - 132
2-Methylnaphthalene	26	54	126.0	33.7 *	30	54 - 145
Acenaphthene	26	130	475.0 *	129.4 *	30	57 - 119
Acenaphthylene	26	170	555.0 *	96.3 *	30	54 - 115
Anthracene	26	1200	4436.0 *	173.3 *	30	40 - 138
Benzo(a)anthracene	26	2400	8342.0 *	162.5 *	30	53 - 119
Benzo(a)pyrene	26	1800	6072.0 *	159.2 *	30	20 - 120
Benzo(b)fluoranthene	26	2400	8278.0 *	158.6 *	30	50 - 171
Benzo(g,h,i)perylene	26	930	3198.0 *	153.7 *	30	50 - 150
Benzo(k)fluoranthene	26	740	2459.0 *	145.5 *	30	32 - 158
Chrysene	26	1900	6635.0 *	156.7 *	30	34 - 140
Dibenzo(a,h)anthracene	26	350	1205.0 *	147.3 *	30	41 - 114
Fluoranthene	26	4400	15445.0 *	167.6 *	30	55 - 132
Fluorene	26	250	861.0 *	131.6 *	30	59 - 118
Indeno(1,2,3-cd)pyrene	26	900	3095.0 *	154.1 *	30	19 - 122
Naphthalene	26	110	204.0 *	37.7 *	30	59 - 111
Phenanthrene	26	2000	6943.0 *	169.0 *	30	54 - 112
Pyrene	26	3000	10662.0 *	165.6 *	30	55 - 123

RPD: 18 out of 18 outside limits

Spike Recovery: 16 out of 18 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

8270 SIM Standards Data

SEMI-VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392Lab Code : PEL Case No. SAS No: SDG No.: 3505843Instrument ID: SMSD01 Calibration Date Begin: 05/07/12 End: 05/07/12GC Column: HPMS-5 ID: 0.25 (mm) Calibration Time Begin: 802 End: 1137Min RRF for SPCC(#) = N/A Max %RSD for CCC(*) = 15 %

LAB FILE ID: RRF0.02 =SIMCAL1.D RRF0.05 =SIMCAL2.D							
RRF0.07 =SIMCAL3.D RRF0.1 =SIMCAL4.D RRF0.2 =SIMCAL5.D							
COMPOUND	RRF0.02	RRF0.05	RRF0.07	RRF0.1	RRF0.2	<u>RRF</u>	%RSD OR R^2
1-Methylnaphthalene	0.740	0.705	0.741	0.735	0.724		
2-Methylnaphthalene	0.705	0.665	0.670	0.669	0.672		
Acenaphthene	* 1.241	1.211	1.219	1.199	1.182		*
Acenaphthylene	1.782	1.788	1.819	1.824	1.806		
Anthracene	0.795	0.816	0.760	0.804	0.820		
Benzo(a)anthracene	1.093	1.023	0.998	0.936	0.915		
Benzo(a)pyrene	* 1.036	0.992	0.980	0.983	0.983		*
Benzo(b)fluoranthene	1.082	0.978	1.018	0.985	1.010		
Benzo(g,h,i)perylene	1.068	1.091	1.098	1.081	1.052		
Benzo(k)fluoranthene	1.377	1.442	1.382	1.411	1.302		
Chrysene	1.156	1.087	1.097	1.143	1.115		
Dibenzo(a,h)anthracene	0.947	0.957	0.905	0.948	0.955		
Fluoranthene	* 1.303	1.268	1.194	1.212	1.247		*
Fluorene	1.360	1.344	1.362	1.365	1.324		
Indeno(1,2,3-cd)pyrene	1.186	1.215	1.221	1.176	1.197		
Naphthalene	1.166	1.040	1.086	1.072	1.055		
Phenanthrene	1.128	1.100	1.035	1.045	1.058		
Pyrene	1.273	1.207	1.166	1.174	1.151		
=====							
p-Terphenyl-d14(SURR)	0.775	0.745	0.728	0.734	0.738		
2-Fluorobiphenyl(SURR)	1.494	1.457	1.425	1.448	1.417		

SEMI-VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843Instrument ID: SMSD01 Calibration Date Begin: 05/07/12 End: 05/07/12GC Column: HPMS-5 ID: 0.25 (mm) Calibration Time Begin: 802 End: 1137Min RRF for SPCC(#) = N/A Max %RSD for CCC(*) = 15 %

LAB FILE ID:		RRF0.5 =SIMCAL6.D		RRF0.7 =SIMCAL7.D			
RRF1 =SIMCAL8.D		RRF5 =SIMCAL9.D		RRF10 =SIMCAL10.D			
COMPOUND	RRF0.5	RRF0.7	RRF1	RRF5	RRF10	<u>RRF</u>	%RSD OR R^2
1-Methylnaphthalene	0.775	0.681	0.692	0.705	0.683	0.71809	4.2
2-Methylnaphthalene	0.742	0.672	0.665	0.753	0.724	0.69357	4.9
Acenaphthene	* 1.267	1.177	1.193	1.188	1.175	1.20521	2.5 *
Acenaphthylene	1.954	1.808	1.767	1.831	1.794	1.81742	2.9
Anthracene	0.894	0.838	0.828	0.854	0.841	0.82508	4.4
Benzo(a)anthracene	1.023	0.945	0.956	1.016	1.005	0.99098	5.4
Benzo(a)pyrene	* 1.085	1.002	1.019	1.078	1.073	1.02303	4.1 *
Benzo(b)fluoranthene	1.234	1.050	1.115	1.211	1.216	1.08998	9.1
Benzo(g,h,i)perylene	1.202	1.083	1.125	1.163	1.140	1.11041	4.2
Benzo(k)fluoranthene	1.413	1.385	1.360	1.316	1.252	1.36402	4.3
Chrysene	1.220	1.096	1.133	1.090	1.069	1.12055	4
Dibenzo(a,h)anthracene	1.106	1.018	1.026	1.105	1.091	1.00584	7.4
Fluoranthene	* 1.360	1.281	1.263	1.299	1.260	1.26867	3.7 *
Fluorene	1.483	1.362	1.363	1.384	1.384	1.3731	3.1
Indeno(1,2,3-cd)pyrene	1.385	1.264	1.298	1.354	1.338	1.26349	6
Naphthalene	1.151	1.053	1.071	1.062	1.039	1.07953	4.1
Phenanthrene	1.176	1.092	1.085	1.111	1.063	1.08933	3.9
Pyrene	1.232	1.127	1.127	1.116	1.072	1.16438	5.1
=====							
p-Terphenyl-d14(SURR)	0.807	0.733	0.726	0.736	0.714	0.74364	3.7
2-Fluorobiphenyl(SURR)	1.555	1.458	1.430	1.397	1.368	1.44491	3.6

7SSC

SEMI-VOLATILE ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Instrument ID: SMSD01 Calibration Date: 05/07/12 Time: 1201
 CCV ID: SSC1078135 Lab File ID: SIMSEC.D Init. Calib. Date Begin: 05/07/12 End: 05/07/12
 GC Column: HPMS-5 ID: 0.25 (mm)
 Min RRF for SPCC(#) = N/A Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type
1-Methylnaphthalene	0.71809	0.59821	16.7	AVRG
2-Methylnaphthalene	0.69357	0.63862	7.9	AVRG
Acenaphthene	* 1.20521	1.084	10.1	AVRG *
Acenaphthylene	1.81742	1.648	9.3	AVRG
Anthracene	0.82508	0.96256	16.7	AVRG
Benzo(a)anthracene	0.99098	0.93322	5.8	AVRG
Benzo(a)pyrene	* 1.02303	0.9672	5.5	AVRG *
Benzo(b)fluoranthene	1.08998	1.021	6.3	AVRG
Benzo(g,h,i)perylene	1.11041	1.017	8.4	AVRG
Benzo(k)fluoranthene	1.36402	1.267	7.1	AVRG
Chrysene	1.12055	1.006	10.2	AVRG
Dibenzo(a,h)anthracene	1.00584	0.93231	7.3	AVRG
Fluoranthene	* 1.26867	1.165	8.2	AVRG *
Fluorene	1.3731	1.28	6.8	AVRG
Indeno(1,2,3-cd)pyrene	1.26349	1.185	6.2	AVRG
Naphthalene	1.07953	0.96987	10.2	AVRG
Phenanthrene	1.08933	0.99753	8.4	AVRG
Pyrene	1.16438	1.096	5.9	AVRG
=====				
p-Terphenyl-d14(SURR)	0.74364	0.71696	3.6	AVRG
2-Fluorobiphenyl(SURR)	1.44491	1.317	8.9	AVRG

SEMI-VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Instrument ID: SMSD01 Calibration Date: 05/07/12 Time: 1324
 CCV ID: CCV1078151 Lab File ID: SIMCCV1.D Init. Calib. Date Begin: 05/07/12 End: 05/07/12
 GC Column: HPMS-5 ID: 0.25 (mm)
 Min RRF for SPCC(#) = N/A Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type
1-Methylnaphthalene	0.71809	0.75644	5.3	AVRG
2-Methylnaphthalene	0.69357	0.74538	7.5	AVRG
Acenaphthene	* 1.20521	1.279	6.1	AVRG *
Acenaphthylene	1.81742	1.938	6.6	AVRG
Anthracene	0.82508	0.89804	8.8	AVRG
Benzo(a)anthracene	0.99098	1	0.9	AVRG
Benzo(a)pyrene	* 1.02303	1.077	5.3	AVRG *
Benzo(b)fluoranthene	1.08998	1.123	3.0	AVRG
Benzo(g,h,i)perylene	1.11041	1.188	7.0	AVRG
Benzo(k)fluoranthene	1.36402	1.519	11.4	AVRG
Chrysene	1.12055	1.204	7.4	AVRG
Dibenzo(a,h)anthracene	1.00584	1.121	11.4	AVRG
Fluoranthene	* 1.26867	1.354	6.7	AVRG *
Fluorene	1.3731	1.477	7.6	AVRG
Indeno(1,2,3-cd)pyrene	1.26349	1.383	9.5	AVRG
Naphthalene	1.07953	1.151	6.6	AVRG
Phenanthrene	1.08933	1.169	7.3	AVRG
Pyrene	1.16438	1.176	1.0	AVRG
=====				
p-Terphenyl-d14(SURR)	0.74364	0.79827	7.3	AVRG
2-Fluorobiphenyl(SURR)	1.44491	1.591	10.1	AVRG

SEMI-VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Instrument ID: SMSD01 Calibration Date: 05/08/12 Time: 0726
 CCV ID: CCV1078235 Lab File ID: SIMCCV1.D Init. Calib. Date Begin: 05/07/12 End: 05/07/12
 GC Column: HPMS-5 ID: 0.25 (mm)
 Min RRF for SPCC(#) = N/A Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type
1-Methylnaphthalene	0.71809	0.73203	1.9	AVRG
2-Methylnaphthalene	0.69357	0.72998	5.2	AVRG
Acenaphthene	* 1.20521	1.298	7.7	AVRG *
Acenaphthylene	1.81742	1.963	8.0	AVRG
Anthracene	0.82508	0.9328	13.1	AVRG
Benzo(a)anthracene	0.99098	1.034	4.3	AVRG
Benzo(a)pyrene	* 1.02303	1.051	2.7	AVRG *
Benzo(b)fluoranthene	1.08998	1.12	2.8	AVRG
Benzo(g,h,i)perylene	1.11041	1.148	3.4	AVRG
Benzo(k)fluoranthene	1.36402	1.506	10.4	AVRG
Chrysene	1.12055	1.222	9.1	AVRG
Dibenzo(a,h)anthracene	1.00584	1.068	6.2	AVRG
Fluoranthene	* 1.26867	1.392	9.7	AVRG *
Fluorene	1.3731	1.528	11.3	AVRG
Indeno(1,2,3-cd)pyrene	1.26349	1.337	5.8	AVRG
Naphthalene	1.07953	1.165	7.9	AVRG
Phenanthrene	1.08933	1.207	10.8	AVRG
Pyrene	1.16438	1.225	5.2	AVRG
=====				
p-Terphenyl-d14(SURR)	0.74364	0.80914	8.8	AVRG
2-Fluorobiphenyl(SURR)	1.44491	1.592	10.2	AVRG

SEMI-VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Instrument ID: SMSD01 Calibration Date: 05/09/12 Time: 0725
 CCV ID: CCV1078585 Lab File ID: SIMCCV1.D Init. Calib. Date Begin: 05/07/12 End: 05/07/12
 GC Column: HPMS-5 ID: 0.25 (mm)
 Min RRF for SPCC(#) = N/A Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type
1-Methylnaphthalene	0.71809	0.75645	5.3	AVRG
2-Methylnaphthalene	0.69357	0.77366	11.5	AVRG
Acenaphthene	* 1.20521	1.296	7.5	AVRG *
Acenaphthylene	1.81742	2.015	10.9	AVRG
Anthracene	0.82508	0.9852	19.4	AVRG
Benzo(a)anthracene	0.99098	1.121	13.1	AVRG
Benzo(a)pyrene	* 1.02303	1.127	10.2	AVRG *
Benzo(b)fluoranthene	1.08998	1.241	13.9	AVRG
Benzo(g,h,i)perylene	1.11041	1.154	3.9	AVRG
Benzo(k)fluoranthene	1.36402	1.389	1.8	AVRG
Chrysene	1.12055	1.281	14.3	AVRG
Dibenzo(a,h)anthracene	1.00584	1.098	9.2	AVRG
Fluoranthene	* 1.26867	1.485	17.1	AVRG *
Fluorene	1.3731	1.568	14.2	AVRG
Indeno(1,2,3-cd)pyrene	1.26349	1.38	9.2	AVRG
Naphthalene	1.07953	1.243	15.1	AVRG
Phenanthrene	1.08933	1.228	12.7	AVRG
Pyrene	1.16438	1.265	8.6	AVRG
=====				
p-Terphenyl-d14(SURR)	0.74364	0.83283	12.0	AVRG
2-Fluorobiphenyl(SURR)	1.44491	1.4	3.1	AVRG

8270 Semi-Volatile Organics

**CASE NARRATIVE
GC/MS SEMIVOLATILE ORGANICS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

EPA SW846 8270D

IV. PREPARATION

Soil samples were prepared by SW846 EPA 3545 for 8270 semi-volatile analysis.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met. Spectrum Analytical Inc. does not analyze a low calibration standard at the requested RL for all analytes. The low calibration standard is 500 ug/Kg for the following analyte: Pentachlorophenol.

B. Blanks:

All acceptance criteria were met with the exception of:

Blank 128824MB was analyzed with the soil samples extracted on 05/03/12. The following analyte was detected below RL: Bis(2-ethylhexyl)phthalate at 144 ug/Kg. Since this compound was detected below the RL, no further action was taken.

Samples coded accordingly.

C. Surrogates:

All acceptance criteria were met with the exception of:

Sample EPAFMC-SD-14 was recovered below criteria for the following surrogates: 2-Fluorobiphenyl at 22.6 % with criteria of (30-115), Nitrobenzene-d5 at 12.9 % with criteria of (23-120). This sample contained low levels of late eluting, non-target compounds that may have interfered with surrogate recovery. Since the other four surrogates met criteria, no further action was taken.

Sample EPAFMC-SD-15 was recovered below criteria for the following surrogates: 2-Fluorobiphenyl at 15.3 % with criteria of (30-115), Nitrobenzene-d5 at 11.6 % with criteria of (23-120). This sample contained low levels of late eluting, non-target

**CASE NARRATIVE
GC/MS SEMIVOLATILE ORGANICS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

compounds that may have interfered with surrogate recovery. Since the other four surrogates met criteria, no further action was taken.

Samples coded accordingly.

D. Spikes:

1. Laboratory Control Spikes (LCS)

All acceptance criteria were met with the exception of:

LCS 128825LCS was analyzed with the soil samples extracted on 05/03/12. The following analytes had marginal exceedance limit failures: Bis(2-ethylhexyl)phthalate at 162 % with criteria of (58.3-135.7). Bis(2-Ethylhexyl)phthalate is a common laboratory contaminant and that likely elevated spike recoveries. No further action was taken, since this compound was not detected in any samples.

Samples coded accordingly.

2. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

A client requested MS/SD set was analyzed. All percent recovery and relative percent difference (RPD) criteria were met with the exception of:

MS - EPAFMC-SD-07MS was analyzed with the soil samples extracted on 05/03/12. The following analytes were recovered below criteria: 2,4-Dinitrophenol at 0 % with criteria of (15-150), 4,6-Dinitro-2-methylphenol at 26.7 % with criteria of (40-130), Hexachlorocyclopentadiene at 6.1 % with criteria of (10-119).

SD - EPAFMC-SD-07SD was analyzed with the soil samples extracted on 05/03/12. The following analytes were recovered below criteria: 2,4-Dinitrophenol at 0 % with criteria of (15-150), 4,6-Dinitro-2-methylphenol at 31.8 % with criteria of (40-130), Hexachlorocyclopentadiene at 0 % with criteria of (10-119). The following analyte exceeded RPD criteria: Hexachlorocyclopentadiene at 200 % with criteria of (30).

Samples coded accordingly.

E. Internal Standards:

All acceptance criteria were met.

F. Samples:

Sample analysis proceeded normally.

**CASE NARRATIVE
GC/MS SEMIVOLATILE ORGANICS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature: 
Name: Brian C. Span **Title:** Lab Director

SIGNED:
05/08/2012

DATE:

CASE NARRATIVE

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

ANUAL INTEGRATION SUMMARY

The following analytes were manually integrated by the chemist.

Sample: 128825LCS Analyte: Caprolactam
Reason: Split Peak

Sample: EPAFMC-SD-07 Analyte: Benzo(a)pyrene
Reason: Split Peak

Sample: EPAFMC-SD-07 Analyte: Benzo(b)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-07 Analyte: Benzo(g,h,i)perylene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-07 Analyte: Benzo(k)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-07 Analyte: Bis(2-ethylhexyl)phthalate
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-07SD Analyte: 2-Nitroaniline
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-08 Analyte: Benzo(a)pyrene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-08 Analyte: Benzo(b)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-08 Analyte: Benzo(k)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-08 Analyte: Pyrene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-09 Analyte: Benzo(a)pyrene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-09 Analyte: Benzo(b)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-09 Analyte: Benzo(g,h,i)perylene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-09 Analyte: Benzo(k)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-09 Analyte: Chrysene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-09 Analyte: Pyrene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-10 Analyte: Benzo(a)pyrene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-10 Analyte: Benzo(b)fluoranthene
Reason: Split Peak

CASE NARRATIVE

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

Sample: EPAFMC-SD-10 Analyte: Benzo(g,h,i)perylene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-10 Analyte: Benzo(k)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-10 Analyte: Carbazole
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-11 Analyte: Benzo(a)pyrene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-11 Analyte: Benzo(b)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-11 Analyte: Benzo(g,h,i)perylene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-11 Analyte: Benzo(k)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-11 Analyte: Pyrene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-12 Analyte: Benzo(a)pyrene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-12 Analyte: Benzo(b)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-12 Analyte: Benzo(g,h,i)perylene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-12 Analyte: Benzo(k)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-12 Analyte: Bis(2-ethylhexyl)phthalate
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-13 Analyte: Benzo(a)pyrene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-13 Analyte: Benzo(b)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-13 Analyte: Benzo(k)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-14 Analyte: Benzo(a)pyrene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-14 Analyte: Benzo(b)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-14 Analyte: Benzo(g,h,i)perylene
Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-14 Analyte: Benzo(k)fluoranthene
Reason: Split Peak

Sample: EPAFMC-SD-16 Analyte: Benzo(a)pyrene
Reason: Baseline integration, needs re-enforced due to interference on target peak

CASE NARRATIVE

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

Sample: EPAFMC-SD-16 Analyte: Benzo(b)fluoranthene

Reason: Split Peak

Sample: EPAFMC-SD-16 Analyte: Benzo(g,h,i)perylene

Reason: Baseline integration, needs re-enforced due to interference on target peak

Sample: EPAFMC-SD-16 Analyte: Benzo(k)fluoranthene

Reason: Split Peak

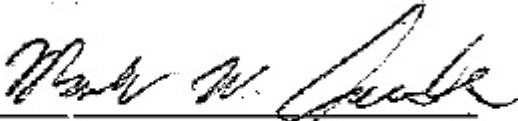
Calibration Sample: SSC1072998 Analyte: Isophorone

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1073006 Analyte: Benzo(a)pyrene

Reason: Baseline integration, needs re-enforced due to interference on target peak

These manual integrations have been reviewed and meet all criteria in accordance with Spectrum Analytical Inc.'s SOP regarding manual integration.

Signature: 
Name: Mark Jacobs Title: Chemist

CHEMIST:
05/07/2012

DATE:

Signature: 
Name: Brian C. Spanf Title: Lab Director

SECTION LEADER:
DATE: 05/08/2012

SEMI-VOLATILE ORGANIC CROSS REFERENCE TABLE

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No. SAS No: SDG No.: 3505843

Method: 8270

EPA Sample No	Lab Sample ID
<u>EPAFMC-SD-07</u>	<u>350584301</u>
<u>EPAFMC-SD-08</u>	<u>350584304</u>
<u>EPAFMC-SD-09</u>	<u>350584305</u>
<u>EPAFMC-SD-10</u>	<u>350584306</u>
<u>EPAFMC-SD-11</u>	<u>350584307</u>
<u>EPAFMC-SD-12</u>	<u>350584308</u>
<u>EPAFMC-SD-13</u>	<u>350584309</u>
<u>EPAFMC-SD-14</u>	<u>350584310</u>
<u>EPAFMC-SD-15</u>	<u>350584311</u>
<u>EPAFMC-SD-16</u>	<u>350584312</u>

8270 Sample Data

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-07

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584301 Lab File ID: 84301.D

Sample wt/vol: 25.08 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1145

PercentSolids: 75.5 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC06 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	70.8	U	70.8	285
108-95-2	Phenol	68.6	U	68.6	1410
95-57-8	2-Chlorophenol	72.9	U	72.9	285
108-60-1	2,2'-Oxybis(1-chloropropane)	232	U	232	285
95-48-7	2-Methylphenol	101	U	101	282
67-72-1	Hexachloroethane	52.8	U	52.8	285
621-64-7	N-Nitroso-di-n-propylamine	64.4	U	64.4	285
106-44-5	4-Methylphenol	88.1	J	62.3	285
98-95-3	Nitrobenzene	63.4	U	63.4	285
78-59-1	Isophorone	62.3	U	62.3	285
88-75-5	2-Nitrophenol	76	U	76	285
105-67-9	2,4-Dimethylphenol	60.2	U	60.2	282
111-91-1	Bis(2-chloroethoxy)methane	60.2	U	60.2	282
120-83-2	2,4-Dichlorophenol	79.2	U	79.2	282
91-20-3	Naphthalene	67.6	U	67.6	285
106-47-8	4-Chloroaniline	66.5	U	66.5	285
91-57-6	2-Methylnaphthalene	61.2	U	61.2	285
87-68-3	Hexachlorobutadiene	61.2	U	61.2	285
59-50-7	4-Chloro-3-methylphenol	59.1	U	59.1	285
77-47-4	Hexachlorocyclopentadiene	42.2	U	42.2	704
88-06-2	2,4,6-Trichlorophenol	71.8	U	71.8	282
95-95-4	2,4,5-Trichlorophenol	78.2	U	78.2	282
91-58-7	2-Chloronaphthalene	70.4	U	70.4	285
88-74-4	2-Nitroaniline	60.2	U	60.2	285
208-96-8	Acenaphthylene	58.1	U	58.1	285
131-11-3	Dimethylphthalate	62.3	U	62.3	285

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-07

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584301 Lab File ID: 84301.D

Sample wt/vol: 25.08 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1145

PercentSolids: 75.5 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC06 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	52.8	U	52.8	285
83-32-9	Acenaphthene	51.8	U	51.8	285
99-09-2	3-Nitroaniline	84.5	U	84.5	282
51-28-5	2,4-Dinitrophenol	232	U	232	1420
132-64-9	Dibenzofuran	57	U	57	285
121-14-2	2,4-Dinitrotoluene	51.8	U	51.8	285
100-02-7	4-Nitrophenol	56	U	56	704
86-73-7	Fluorene	53.9	U	53.9	285
7005-72-3	4-Chlorophenyl-phenylether	53.9	U	53.9	285
84-66-2	Diethylphthalate	53.9	U	53.9	285
100-01-6	4-Nitroaniline	92.9	U	92.9	282
534-52-1	4,6-Dinitro-2-methylphenol	281	U	281	285
86-30-6	N-Nitrosodiphenylamine	66.5	U	66.5	282
101-55-3	4-Bromophenyl-phenylether	51.8	U	51.8	285
118-74-1	Hexachlorobenzene	56	U	56	282
87-86-5	Pentachlorophenol	140	U	140	285
85-01-8	Phenanthrene	230	J	59.1	285
120-12-7	Anthracene	75.6	J	63.4	285
84-74-2	Di-n-butylphthalate	46.5	U	46.5	285
206-44-0	Fluoranthene	785		50.7	285
129-00-0	Pyrene	667		97.2	285
85-68-7	Butylbenzylphthalate	66.5	U	66.5	285
91-94-1	3,3'-Dichlorobenzidine	62.3	U	62.3	285
56-55-3	Benzo(a)anthracene	449		60.2	285
218-01-9	Chrysene	489		35.9	282
117-81-7	Bis(2-ethylhexyl)phthalate	87.7	U	87.7	285

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-07

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584301 Lab File ID: 84301.D

Sample wt/vol: 25.08 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1145

PercentSolids: 75.5 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC06 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	61.2	U	61.2	285
205-99-2	Benzo(b)fluoranthene	526		66.5	285
207-08-9	Benzo(k)fluoranthene	421		60.2	285
50-32-8	Benzo(a)pyrene	400		45.4	285
193-39-5	Indeno(1,2,3-cd)pyrene	204	J	54.9	285
53-70-3	Dibenzo(a,h)anthracene	71.8	J	43.3	285
191-24-2	Benzo(g,h,i)perylene	232	J	42.2	285
98-86-2	Acetophenone	106	U	106	285
95-94-3	1,2,4,5-Tetrachlorobenzene	49.6	U	49.6	285
86-74-8	Carbazole	57	U	57	285
105-60-2	Caprolactam	148	U	148	285
92-52-4	1,1'-Biphenyl	64.4	U	64.4	285
1912-24-9	Atrazine	83.4	U	83.4	285
100-52-7	Benzaldehyde	47.5	U	47.5	285

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13 EPAFMC-SD-08

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584304 Lab File ID: 84304.D

Sample wt/vol: 25.39 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1409

PercentSolids: 97.1 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC07 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	54.4	U	54.4	219
108-95-2	Phenol	52.7	U	52.7	1080
95-57-8	2-Chlorophenol	56	U	56	219
108-60-1	2,2'-Oxybis(1-chloropropane)	178	U	178	219
95-48-7	2-Methylphenol	77.9	U	77.9	216
67-72-1	Hexachloroethane	40.6	U	40.6	219
621-64-7	N-Nitroso-di-n-propylamine	49.5	U	49.5	219
106-44-5	4-Methylphenol	47.9	U	47.9	219
98-95-3	Nitrobenzene	48.7	U	48.7	219
78-59-1	Isophorone	47.9	U	47.9	219
88-75-5	2-Nitrophenol	58.4	U	58.4	219
105-67-9	2,4-Dimethylphenol	46.2	U	46.2	216
111-91-1	Bis(2-chloroethoxy)methane	46.2	U	46.2	216
120-83-2	2,4-Dichlorophenol	60.8	U	60.8	216
91-20-3	Naphthalene	51.9	U	51.9	219
106-47-8	4-Chloroaniline	51.1	U	51.1	219
91-57-6	2-Methylnaphthalene	47	U	47	219
87-68-3	Hexachlorobutadiene	47	U	47	219
59-50-7	4-Chloro-3-methylphenol	45.4	U	45.4	219
77-47-4	Hexachlorocyclopentadiene	32.4	U	32.4	541
88-06-2	2,4,6-Trichlorophenol	55.2	U	55.2	216
95-95-4	2,4,5-Trichlorophenol	60	U	60	216
91-58-7	2-Chloronaphthalene	54.1	U	54.1	219
88-74-4	2-Nitroaniline	46.2	U	46.2	219
208-96-8	Acenaphthylene	44.6	U	44.6	219
131-11-3	Dimethylphthalate	47.9	U	47.9	219

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-08

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584304 Lab File ID: 84304.D

Sample wt/vol: 25.39 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1409

PercentSolids: 97.1 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC07 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	40.6	U	40.6	219
83-32-9	Acenaphthene	39.7	U	39.7	219
99-09-2	3-Nitroaniline	64.9	U	64.9	216
51-28-5	2,4-Dinitrophenol	178	U	178	1090
132-64-9	Dibenzofuran	43.8	U	43.8	219
121-14-2	2,4-Dinitrotoluene	39.7	U	39.7	219
100-02-7	4-Nitrophenol	43	U	43	541
86-73-7	Fluorene	41.4	U	41.4	219
7005-72-3	4-Chlorophenyl-phenylether	41.4	U	41.4	219
84-66-2	Diethylphthalate	41.4	U	41.4	219
100-01-6	4-Nitroaniline	71.4	U	71.4	216
534-52-1	4,6-Dinitro-2-methylphenol	216	U	216	219
86-30-6	N-Nitrosodiphenylamine	51.1	U	51.1	216
101-55-3	4-Bromophenyl-phenylether	39.7	U	39.7	219
118-74-1	Hexachlorobenzene	43	U	43	216
87-86-5	Pentachlorophenol	108	U	108	219
85-01-8	Phenanthrene	215	J	45.4	219
120-12-7	Anthracene	48.7	U	48.7	219
84-74-2	Di-n-butylphthalate	35.7	U	35.7	219
206-44-0	Fluoranthene	380		38.9	219
129-00-0	Pyrene	317		74.6	219
85-68-7	Butylbenzylphthalate	51.1	U	51.1	219
91-94-1	3,3'-Dichlorobenzidine	47.9	U	47.9	219
56-55-3	Benzo(a)anthracene	172	J	46.2	219
218-01-9	Chrysene	187	J	27.6	216
117-81-7	Bis(2-ethylhexyl)phthalate	67.3	U	67.3	219

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-08

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584304 Lab File ID: 84304.D

Sample wt/vol: 25.39 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1409

PercentSolids: 97.1 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC07 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	47	U	47	219
205-99-2	Benzo(b)fluoranthene	210	J	51.1	219
207-08-9	Benzo(k)fluoranthene	87.6	J	46.2	219
50-32-8	Benzo(a)pyrene	129	J	34.9	219
193-39-5	Indeno(1,2,3-cd)pyrene	79.2	J	42.2	219
53-70-3	Dibenzo(a,h)anthracene	33.2	U	33.2	219
191-24-2	Benzo(g,h,i)perylene	88.6	J	32.4	219
98-86-2	Acetophenone	81.1	U	81.1	219
95-94-3	1,2,4,5-Tetrachlorobenzene	38.1	U	38.1	219
86-74-8	Carbazole	43.8	U	43.8	219
105-60-2	Caprolactam	114	U	114	219
92-52-4	1,1'-Biphenyl	49.5	U	49.5	219
1912-24-9	Atrazine	64.1	U	64.1	219
100-52-7	Benzaldehyde	36.5	U	36.5	219

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-09

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584305 Lab File ID: 84305.D

Sample wt/vol: 25.06 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1433

PercentSolids: 77.7 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC08 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	68.8	U	68.8	277
108-95-2	Phenol	66.8	U	66.8	1370
95-57-8	2-Chlorophenol	70.9	U	70.9	277
108-60-1	2,2'-Oxybis(1-chloropropane)	226	U	226	277
95-48-7	2-Methylphenol	98.6	U	98.6	274
67-72-1	Hexachloroethane	51.4	U	51.4	277
621-64-7	N-Nitroso-di-n-propylamine	62.6	U	62.6	277
106-44-5	4-Methylphenol	60.6	U	60.6	277
98-95-3	Nitrobenzene	61.6	U	61.6	277
78-59-1	Isophorone	60.6	U	60.6	277
88-75-5	2-Nitrophenol	74	U	74	277
105-67-9	2,4-Dimethylphenol	58.5	U	58.5	274
111-91-1	Bis(2-chloroethoxy)methane	58.5	U	58.5	274
120-83-2	2,4-Dichlorophenol	77	U	77	274
91-20-3	Naphthalene	65.7	U	65.7	277
106-47-8	4-Chloroaniline	64.7	U	64.7	277
91-57-6	2-Methylnaphthalene	59.6	U	59.6	277
87-68-3	Hexachlorobutadiene	59.6	U	59.6	277
59-50-7	4-Chloro-3-methylphenol	57.5	U	57.5	277
77-47-4	Hexachlorocyclopentadiene	41.1	U	41.1	685
88-06-2	2,4,6-Trichlorophenol	69.8	U	69.8	274
95-95-4	2,4,5-Trichlorophenol	76	U	76	274
91-58-7	2-Chloronaphthalene	68.5	U	68.5	277
88-74-4	2-Nitroaniline	58.5	U	58.5	277
208-96-8	Acenaphthylene	56.5	U	56.5	277
131-11-3	Dimethylphthalate	60.6	U	60.6	277

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-09

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584305 Lab File ID: 84305.D

Sample wt/vol: 25.06 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1433

PercentSolids: 77.7 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC08 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	51.4	U	51.4	277
83-32-9	Acenaphthene	50.3	U	50.3	277
99-09-2	3-Nitroaniline	82.2	U	82.2	274
51-28-5	2,4-Dinitrophenol	226	U	226	1380
132-64-9	Dibenzofuran	55.5	U	55.5	277
121-14-2	2,4-Dinitrotoluene	50.3	U	50.3	277
100-02-7	4-Nitrophenol	54.4	U	54.4	685
86-73-7	Fluorene	52.4	U	52.4	277
7005-72-3	4-Chlorophenyl-phenylether	52.4	U	52.4	277
84-66-2	Diethylphthalate	52.4	U	52.4	277
100-01-6	4-Nitroaniline	90.4	U	90.4	274
534-52-1	4,6-Dinitro-2-methylphenol	273	U	273	277
86-30-6	N-Nitrosodiphenylamine	64.7	U	64.7	274
101-55-3	4-Bromophenyl-phenylether	50.3	U	50.3	277
118-74-1	Hexachlorobenzene	54.4	U	54.4	274
87-86-5	Pentachlorophenol	137	U	137	277
85-01-8	Phenanthrene	57.5	U	57.5	277
120-12-7	Anthracene	61.6	U	61.6	277
84-74-2	Di-n-butylphthalate	45.2	U	45.2	277
206-44-0	Fluoranthene	214	J	49.3	277
129-00-0	Pyrene	252	J	94.5	277
85-68-7	Butylbenzylphthalate	64.7	U	64.7	277
91-94-1	3,3'-Dichlorobenzidine	60.6	U	60.6	277
56-55-3	Benzo(a)anthracene	161	J	58.5	277
218-01-9	Chrysene	161	J	34.9	274
117-81-7	Bis(2-ethylhexyl)phthalate	85.2	U	85.2	277

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-09

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584305 Lab File ID: 84305.D

Sample wt/vol: 25.06 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1433

PercentSolids: 77.7 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC08 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	59.6	U	59.6	277
205-99-2	Benzo(b)fluoranthene	163	J	64.7	277
207-08-9	Benzo(k)fluoranthene	77.4	J	58.5	277
50-32-8	Benzo(a)pyrene	108	J	44.2	277
193-39-5	Indeno(1,2,3-cd)pyrene	57.9	J	53.4	277
53-70-3	Dibenzo(a,h)anthracene	42.1	U	42.1	277
191-24-2	Benzo(g,h,i)perylene	65.7	J	41.1	277
98-86-2	Acetophenone	103	U	103	277
95-94-3	1,2,4,5-Tetrachlorobenzene	48.3	U	48.3	277
86-74-8	Carbazole	55.5	U	55.5	277
105-60-2	Caprolactam	144	U	144	277
92-52-4	1,1'-Biphenyl	62.6	U	62.6	277
1912-24-9	Atrazine	81.1	U	81.1	277
100-52-7	Benzaldehyde	46.2	U	46.2	277

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-10

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584306 Lab File ID: 84306.D

Sample wt/vol: 25.81 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1457

PercentSolids: 79.7 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC09 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	65.1	U	65.1	262
108-95-2	Phenol	63.2	U	63.2	1300
95-57-8	2-Chlorophenol	67.1	U	67.1	262
108-60-1	2,2'-Oxybis(1-chloropropane)	214	U	214	262
95-48-7	2-Methylphenol	93.3	U	93.3	260
67-72-1	Hexachloroethane	48.6	U	48.6	262
621-64-7	N-Nitroso-di-n-propylamine	59.3	U	59.3	262
106-44-5	4-Methylphenol	57.4	U	57.4	262
98-95-3	Nitrobenzene	58.3	U	58.3	262
78-59-1	Isophorone	57.4	U	57.4	262
88-75-5	2-Nitrophenol	70	U	70	262
105-67-9	2,4-Dimethylphenol	55.4	U	55.4	260
111-91-1	Bis(2-chloroethoxy)methane	55.4	U	55.4	260
120-83-2	2,4-Dichlorophenol	72.9	U	72.9	260
91-20-3	Naphthalene	62.9	J	62.2	262
106-47-8	4-Chloroaniline	61.2	U	61.2	262
91-57-6	2-Methylnaphthalene	56.4	U	56.4	262
87-68-3	Hexachlorobutadiene	56.4	U	56.4	262
59-50-7	4-Chloro-3-methylphenol	54.4	U	54.4	262
77-47-4	Hexachlorocyclopentadiene	38.9	U	38.9	648
88-06-2	2,4,6-Trichlorophenol	66.1	U	66.1	260
95-95-4	2,4,5-Trichlorophenol	72	U	72	260
91-58-7	2-Chloronaphthalene	64.8	U	64.8	262
88-74-4	2-Nitroaniline	55.4	U	55.4	262
208-96-8	Acenaphthylene	84.4	J	53.5	262
131-11-3	Dimethylphthalate	57.4	U	57.4	262

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-10

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584306 Lab File ID: 84306.D

Sample wt/vol: 25.81 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1457

PercentSolids: 79.7 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC09 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	48.6	U	48.6	262
83-32-9	Acenaphthene	47.6	U	47.6	262
99-09-2	3-Nitroaniline	77.8	U	77.8	260
51-28-5	2,4-Dinitrophenol	214	U	214	1300
132-64-9	Dibenzofuran	61.7	J	52.5	262
121-14-2	2,4-Dinitrotoluene	47.6	U	47.6	262
100-02-7	4-Nitrophenol	51.5	U	51.5	648
86-73-7	Fluorene	122	J	49.6	262
7005-72-3	4-Chlorophenyl-phenylether	49.6	U	49.6	262
84-66-2	Diethylphthalate	49.6	U	49.6	262
100-01-6	4-Nitroaniline	85.6	U	85.6	260
534-52-1	4,6-Dinitro-2-methylphenol	259	U	259	262
86-30-6	N-Nitrosodiphenylamine	61.2	U	61.2	260
101-55-3	4-Bromophenyl-phenylether	47.6	U	47.6	262
118-74-1	Hexachlorobenzene	51.5	U	51.5	260
87-86-5	Pentachlorophenol	129	U	129	262
85-01-8	Phenanthrene	574		54.4	262
120-12-7	Anthracene	154	J	58.3	262
84-74-2	Di-n-butylphthalate	42.8	U	42.8	262
206-44-0	Fluoranthene	630		46.7	262
129-00-0	Pyrene	495		89.4	262
85-68-7	Butylbenzylphthalate	61.2	U	61.2	262
91-94-1	3,3'-Dichlorobenzidine	57.4	U	57.4	262
56-55-3	Benzo(a)anthracene	338		55.4	262
218-01-9	Chrysene	326		33	260
117-81-7	Bis(2-ethylhexyl)phthalate	80.7	U	80.7	262

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-10

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584306 Lab File ID: 84306.D

Sample wt/vol: 25.81 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1457

PercentSolids: 79.7 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC09 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	56.4	U	56.4	262
205-99-2	Benzo(b)fluoranthene	350		61.2	262
207-08-9	Benzo(k)fluoranthene	123	J	55.4	262
50-32-8	Benzo(a)pyrene	227	J	41.8	262
193-39-5	Indeno(1,2,3-cd)pyrene	104	J	50.5	262
53-70-3	Dibenzo(a,h)anthracene	50.2	J	39.9	262
191-24-2	Benzo(g,h,i)perylene	118	J	38.9	262
98-86-2	Acetophenone	97.2	U	97.2	262
95-94-3	1,2,4,5-Tetrachlorobenzene	45.7	U	45.7	262
86-74-8	Carbazole	76.6	J	52.5	262
105-60-2	Caprolactam	136	U	136	262
92-52-4	1,1'-Biphenyl	59.3	U	59.3	262
1912-24-9	Atrazine	76.8	U	76.8	262
100-52-7	Benzaldehyde	43.8	U	43.8	262

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-11

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584307 Lab File ID: 84307.D

Sample wt/vol: 25.15 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1521

PercentSolids: 78.4 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC10 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	68	U	68	274
108-95-2	Phenol	65.9	U	65.9	1350
95-57-8	2-Chlorophenol	70	U	70	274
108-60-1	2,2'-Oxybis(1-chloropropane)	223	U	223	274
95-48-7	2-Methylphenol	97.4	U	97.4	271
67-72-1	Hexachloroethane	50.7	U	50.7	274
621-64-7	N-Nitroso-di-n-propylamine	61.9	U	61.9	274
106-44-5	4-Methylphenol	59.8	U	59.8	274
98-95-3	Nitrobenzene	60.8	U	60.8	274
78-59-1	Isophorone	59.8	U	59.8	274
88-75-5	2-Nitrophenol	73	U	73	274
105-67-9	2,4-Dimethylphenol	57.8	U	57.8	271
111-91-1	Bis(2-chloroethoxy)methane	57.8	U	57.8	271
120-83-2	2,4-Dichlorophenol	76.1	U	76.1	271
91-20-3	Naphthalene	64.9	U	64.9	274
106-47-8	4-Chloroaniline	63.9	U	63.9	274
91-57-6	2-Methylnaphthalene	58.8	U	58.8	274
87-68-3	Hexachlorobutadiene	58.8	U	58.8	274
59-50-7	4-Chloro-3-methylphenol	56.8	U	56.8	274
77-47-4	Hexachlorocyclopentadiene	40.6	U	40.6	676
88-06-2	2,4,6-Trichlorophenol	69	U	69	271
95-95-4	2,4,5-Trichlorophenol	75	U	75	271
91-58-7	2-Chloronaphthalene	67.6	U	67.6	274
88-74-4	2-Nitroaniline	57.8	U	57.8	274
208-96-8	Acenaphthylene	55.8	U	55.8	274
131-11-3	Dimethylphthalate	59.8	U	59.8	274

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-11

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584307 Lab File ID: 84307.D

Sample wt/vol: 25.15 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1521

PercentSolids: 78.4 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC10 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	50.7	U	50.7	274
83-32-9	Acenaphthene	49.7	U	49.7	274
99-09-2	3-Nitroaniline	81.1	U	81.1	271
51-28-5	2,4-Dinitrophenol	223	U	223	1360
132-64-9	Dibenzofuran	54.8	U	54.8	274
121-14-2	2,4-Dinitrotoluene	49.7	U	49.7	274
100-02-7	4-Nitrophenol	53.8	U	53.8	676
86-73-7	Fluorene	51.7	U	51.7	274
7005-72-3	4-Chlorophenyl-phenylether	51.7	U	51.7	274
84-66-2	Diethylphthalate	51.7	U	51.7	274
100-01-6	4-Nitroaniline	89.2	U	89.2	271
534-52-1	4,6-Dinitro-2-methylphenol	270	U	270	274
86-30-6	N-Nitrosodiphenylamine	63.9	U	63.9	271
101-55-3	4-Bromophenyl-phenylether	49.7	U	49.7	274
118-74-1	Hexachlorobenzene	53.8	U	53.8	271
87-86-5	Pentachlorophenol	135	U	135	274
85-01-8	Phenanthrene	56.8	U	56.8	274
120-12-7	Anthracene	60.8	U	60.8	274
84-74-2	Di-n-butylphthalate	44.6	U	44.6	274
206-44-0	Fluoranthene	275		48.7	274
129-00-0	Pyrene	265	J	93.3	274
85-68-7	Butylbenzylphthalate	63.9	U	63.9	274
91-94-1	3,3'-Dichlorobenzidine	59.8	U	59.8	274
56-55-3	Benzo(a)anthracene	176	J	57.8	274
218-01-9	Chrysene	183	J	34.5	271
117-81-7	Bis(2-ethylhexyl)phthalate	84.2	U	84.2	274

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-11

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584307 Lab File ID: 84307.D

Sample wt/vol: 25.15 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1521

PercentSolids: 78.4 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC10 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	58.8	U	58.8	274
205-99-2	Benzo(b)fluoranthene	186	J	63.9	274
207-08-9	Benzo(k)fluoranthene	91.8	J	57.8	274
50-32-8	Benzo(a)pyrene	118	J	43.6	274
193-39-5	Indeno(1,2,3-cd)pyrene	60.6	J	52.7	274
53-70-3	Dibenzo(a,h)anthracene	41.6	U	41.6	274
191-24-2	Benzo(g,h,i)perylene	70.2	J	40.6	274
98-86-2	Acetophenone	101	U	101	274
95-94-3	1,2,4,5-Tetrachlorobenzene	47.7	U	47.7	274
86-74-8	Carbazole	54.8	U	54.8	274
105-60-2	Caprolactam	142	U	142	274
92-52-4	1,1'-Biphenyl	61.9	U	61.9	274
1912-24-9	Atrazine	80.1	U	80.1	274
100-52-7	Benzaldehyde	45.6	U	45.6	274

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-12

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584308 Lab File ID: 84308.D

Sample wt/vol: 25.52 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1545

PercentSolids: 84.4 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC11 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	62.2	U	62.2	251
108-95-2	Phenol	60.4	U	60.4	1240
95-57-8	2-Chlorophenol	64.1	U	64.1	251
108-60-1	2,2'-Oxybis(1-chloropropane)	204	U	204	251
95-48-7	2-Methylphenol	89.1	U	89.1	248
67-72-1	Hexachloroethane	46.4	U	46.4	251
621-64-7	N-Nitroso-di-n-propylamine	56.6	U	56.6	251
106-44-5	4-Methylphenol	54.8	U	54.8	251
98-95-3	Nitrobenzene	55.7	U	55.7	251
78-59-1	Isophorone	54.8	U	54.8	251
88-75-5	2-Nitrophenol	66.8	U	66.8	251
105-67-9	2,4-Dimethylphenol	52.9	U	52.9	248
111-91-1	Bis(2-chloroethoxy)methane	52.9	U	52.9	248
120-83-2	2,4-Dichlorophenol	69.6	U	69.6	248
91-20-3	Naphthalene	342		59.4	251
106-47-8	4-Chloroaniline	58.5	U	58.5	251
91-57-6	2-Methylnaphthalene	65.7	J	53.8	251
87-68-3	Hexachlorobutadiene	53.8	U	53.8	251
59-50-7	4-Chloro-3-methylphenol	52	U	52	251
77-47-4	Hexachlorocyclopentadiene	37.1	U	37.1	619
88-06-2	2,4,6-Trichlorophenol	63.1	U	63.1	248
95-95-4	2,4,5-Trichlorophenol	68.7	U	68.7	248
91-58-7	2-Chloronaphthalene	61.9	U	61.9	251
88-74-4	2-Nitroaniline	52.9	U	52.9	251
208-96-8	Acenaphthylene	97.7	J	51.1	251
131-11-3	Dimethylphthalate	54.8	U	54.8	251

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-12

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584308 Lab File ID: 84308.D

Sample wt/vol: 25.52 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1545

PercentSolids: 84.4 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC11 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	46.4	U	46.4	251
83-32-9	Acenaphthene	45.5	U	45.5	251
99-09-2	3-Nitroaniline	74.3	U	74.3	248
51-28-5	2,4-Dinitrophenol	204	U	204	1240
132-64-9	Dibenzofuran	57.3	J	50.1	251
121-14-2	2,4-Dinitrotoluene	45.5	U	45.5	251
100-02-7	4-Nitrophenol	49.2	U	49.2	619
86-73-7	Fluorene	55.3	J	47.4	251
7005-72-3	4-Chlorophenyl-phenylether	47.4	U	47.4	251
84-66-2	Diethylphthalate	47.4	U	47.4	251
100-01-6	4-Nitroaniline	81.7	U	81.7	248
534-52-1	4,6-Dinitro-2-methylphenol	247	U	247	251
86-30-6	N-Nitrosodiphenylamine	58.5	U	58.5	248
101-55-3	4-Bromophenyl-phenylether	45.5	U	45.5	251
118-74-1	Hexachlorobenzene	49.2	U	49.2	248
87-86-5	Pentachlorophenol	124	U	124	251
85-01-8	Phenanthrene	373		52	251
120-12-7	Anthracene	176	J	55.7	251
84-74-2	Di-n-butylphthalate	40.8	U	40.8	251
206-44-0	Fluoranthene	1060		44.6	251
129-00-0	Pyrene	878		85.4	251
85-68-7	Butylbenzylphthalate	58.5	U	58.5	251
91-94-1	3,3'-Dichlorobenzidine	54.8	U	54.8	251
56-55-3	Benzo(a)anthracene	574		52.9	251
218-01-9	Chrysene	550		31.6	248
117-81-7	Bis(2-ethylhexyl)phthalate	77.1	U	77.1	251

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-12

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584308 Lab File ID: 84308.D

Sample wt/vol: 25.52 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1545

PercentSolids: 84.4 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC11 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	53.8	U	53.8	251
205-99-2	Benzo(b)fluoranthene	569		58.5	251
207-08-9	Benzo(k)fluoranthene	279		52.9	251
50-32-8	Benzo(a)pyrene	397		39.9	251
193-39-5	Indeno(1,2,3-cd)pyrene	192	J	48.3	251
53-70-3	Dibenzo(a,h)anthracene	71.6	J	38.1	251
191-24-2	Benzo(g,h,i)perylene	215	J	37.1	251
98-86-2	Acetophenone	92.9	U	92.9	251
95-94-3	1,2,4,5-Tetrachlorobenzene	43.6	U	43.6	251
86-74-8	Carbazole	69.8	J	50.1	251
105-60-2	Caprolactam	130	U	130	251
92-52-4	1,1'-Biphenyl	56.6	U	56.6	251
1912-24-9	Atrazine	73.4	U	73.4	251
100-52-7	Benzaldehyde	41.8	U	41.8	251

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-13

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584309 Lab File ID: 84309.D

Sample wt/vol: 25.22 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1609

PercentSolids: 78 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC12 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	68.1	U	68.1	274
108-95-2	Phenol	66.1	U	66.1	1360
95-57-8	2-Chlorophenol	70.2	U	70.2	274
108-60-1	2,2'-Oxybis(1-chloropropane)	224	U	224	274
95-48-7	2-Methylphenol	97.6	U	97.6	271
67-72-1	Hexachloroethane	50.8	U	50.8	274
621-64-7	N-Nitroso-di-n-propylamine	62	U	62	274
106-44-5	4-Methylphenol	60	U	60	274
98-95-3	Nitrobenzene	61	U	61	274
78-59-1	Isophorone	60	U	60	274
88-75-5	2-Nitrophenol	73.2	U	73.2	274
105-67-9	2,4-Dimethylphenol	58	U	58	271
111-91-1	Bis(2-chloroethoxy)methane	58	U	58	271
120-83-2	2,4-Dichlorophenol	76.2	U	76.2	271
91-20-3	Naphthalene	121	J	65.1	274
106-47-8	4-Chloroaniline	64	U	64	274
91-57-6	2-Methylnaphthalene	59	U	59	274
87-68-3	Hexachlorobutadiene	59	U	59	274
59-50-7	4-Chloro-3-methylphenol	56.9	U	56.9	274
77-47-4	Hexachlorocyclopentadiene	40.7	U	40.7	678
88-06-2	2,4,6-Trichlorophenol	69.1	U	69.1	271
95-95-4	2,4,5-Trichlorophenol	75.2	U	75.2	271
91-58-7	2-Chloronaphthalene	67.8	U	67.8	274
88-74-4	2-Nitroaniline	58	U	58	274
208-96-8	Acenaphthylene	55.9	U	55.9	274
131-11-3	Dimethylphthalate	60	U	60	274

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-13

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584309 Lab File ID: 84309.D

Sample wt/vol: 25.22 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1609

PercentSolids: 78 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC12 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	50.8	U	50.8	274
83-32-9	Acenaphthene	49.8	U	49.8	274
99-09-2	3-Nitroaniline	81.3	U	81.3	271
51-28-5	2,4-Dinitrophenol	224	U	224	1360
132-64-9	Dibenzofuran	54.9	U	54.9	274
121-14-2	2,4-Dinitrotoluene	49.8	U	49.8	274
100-02-7	4-Nitrophenol	53.9	U	53.9	678
86-73-7	Fluorene	58.9	J	51.8	274
7005-72-3	4-Chlorophenyl-phenylether	51.8	U	51.8	274
84-66-2	Diethylphthalate	51.8	U	51.8	274
100-01-6	4-Nitroaniline	89.5	U	89.5	271
534-52-1	4,6-Dinitro-2-methylphenol	270	U	270	274
86-30-6	N-Nitrosodiphenylamine	64	U	64	271
101-55-3	4-Bromophenyl-phenylether	49.8	U	49.8	274
118-74-1	Hexachlorobenzene	53.9	U	53.9	271
87-86-5	Pentachlorophenol	135	U	135	274
85-01-8	Phenanthrene	534		56.9	274
120-12-7	Anthracene	142	J	61	274
84-74-2	Di-n-butylphthalate	44.7	U	44.7	274
206-44-0	Fluoranthene	910		48.8	274
129-00-0	Pyrene	914		93.5	274
85-68-7	Butylbenzylphthalate	64	U	64	274
91-94-1	3,3'-Dichlorobenzidine	60	U	60	274
56-55-3	Benzo(a)anthracene	466		58	274
218-01-9	Chrysene	591		34.6	271
117-81-7	Bis(2-ethylhexyl)phthalate	84.4	U	84.4	274

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-13

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584309 Lab File ID: 84309.D

Sample wt/vol: 25.22 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1609

PercentSolids: 78 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC12 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	59	U	59	274
205-99-2	Benzo(b)fluoranthene	603		64	274
207-08-9	Benzo(k)fluoranthene	454		58	274
50-32-8	Benzo(a)pyrene	362		43.7	274
193-39-5	Indeno(1,2,3-cd)pyrene	206	J	52.9	274
53-70-3	Dibenzo(a,h)anthracene	41.7	U	41.7	274
191-24-2	Benzo(g,h,i)perylene	235	J	40.7	274
98-86-2	Acetophenone	102	U	102	274
95-94-3	1,2,4,5-Tetrachlorobenzene	47.8	U	47.8	274
86-74-8	Carbazole	61.3	J	54.9	274
105-60-2	Caprolactam	142	U	142	274
92-52-4	1,1'-Biphenyl	62	U	62	274
1912-24-9	Atrazine	80.3	U	80.3	274
100-52-7	Benzaldehyde	45.8	U	45.8	274

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-14

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584310 Lab File ID: 84310.D

Sample wt/vol: 25.67 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1632

PercentSolids: 80.6 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC13 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	64.8	U	64.8	261
108-95-2	Phenol	62.8	U	62.8	1290
95-57-8	2-Chlorophenol	66.7	U	66.7	261
108-60-1	2,2'-Oxybis(1-chloropropane)	213	U	213	261
95-48-7	2-Methylphenol	92.8	U	92.8	258
67-72-1	Hexachloroethane	48.3	U	48.3	261
621-64-7	N-Nitroso-di-n-propylamine	59	U	59	261
106-44-5	4-Methylphenol	57	U	57	261
98-95-3	Nitrobenzene	58	U	58	261
78-59-1	Isophorone	57	U	57	261
88-75-5	2-Nitrophenol	69.6	U	69.6	261
105-67-9	2,4-Dimethylphenol	55.1	U	55.1	258
111-91-1	Bis(2-chloroethoxy)methane	55.1	U	55.1	258
120-83-2	2,4-Dichlorophenol	72.5	U	72.5	258
91-20-3	Naphthalene	61.9	U	61.9	261
106-47-8	4-Chloroaniline	60.9	U	60.9	261
91-57-6	2-Methylnaphthalene	56.1	U	56.1	261
87-68-3	Hexachlorobutadiene	56.1	U	56.1	261
59-50-7	4-Chloro-3-methylphenol	54.1	U	54.1	261
77-47-4	Hexachlorocyclopentadiene	38.7	U	38.7	645
88-06-2	2,4,6-Trichlorophenol	65.7	U	65.7	258
95-95-4	2,4,5-Trichlorophenol	71.5	U	71.5	258
91-58-7	2-Chloronaphthalene	64.5	U	64.5	261
88-74-4	2-Nitroaniline	55.1	U	55.1	261
208-96-8	Acenaphthylene	53.2	U	53.2	261
131-11-3	Dimethylphthalate	57	U	57	261

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-14

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584310 Lab File ID: 84310.D

Sample wt/vol: 25.67 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1632

PercentSolids: 80.6 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC13 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	48.3	U	48.3	261
83-32-9	Acenaphthene	47.4	U	47.4	261
99-09-2	3-Nitroaniline	77.3	U	77.3	258
51-28-5	2,4-Dinitrophenol	213	U	213	1300
132-64-9	Dibenzofuran	52.2	U	52.2	261
121-14-2	2,4-Dinitrotoluene	47.4	U	47.4	261
100-02-7	4-Nitrophenol	51.2	U	51.2	645
86-73-7	Fluorene	49.3	U	49.3	261
7005-72-3	4-Chlorophenyl-phenylether	49.3	U	49.3	261
84-66-2	Diethylphthalate	49.3	U	49.3	261
100-01-6	4-Nitroaniline	85.1	U	85.1	258
534-52-1	4,6-Dinitro-2-methylphenol	257	U	257	261
86-30-6	N-Nitrosodiphenylamine	60.9	U	60.9	258
101-55-3	4-Bromophenyl-phenylether	47.4	U	47.4	261
118-74-1	Hexachlorobenzene	51.2	U	51.2	258
87-86-5	Pentachlorophenol	128	U	128	261
85-01-8	Phenanthrene	730		54.1	261
120-12-7	Anthracene	169	J	58	261
84-74-2	Di-n-butylphthalate	42.5	U	42.5	261
206-44-0	Fluoranthene	1580		46.4	261
129-00-0	Pyrene	1200		88.9	261
85-68-7	Butylbenzylphthalate	60.9	U	60.9	261
91-94-1	3,3'-Dichlorobenzidine	57	U	57	261
56-55-3	Benzo(a)anthracene	767		55.1	261
218-01-9	Chrysene	815		32.9	258
117-81-7	Bis(2-ethylhexyl)phthalate	80.2	U	80.2	261

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-14

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584310 Lab File ID: 84310.D

Sample wt/vol: 25.67 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1632

PercentSolids: 80.6 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC13 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	56.1	U	56.1	261
205-99-2	Benzo(b)fluoranthene	882		60.9	261
207-08-9	Benzo(k)fluoranthene	660		55.1	261
50-32-8	Benzo(a)pyrene	549		41.6	261
193-39-5	Indeno(1,2,3-cd)pyrene	292		50.3	261
53-70-3	Dibenzo(a,h)anthracene	124	J	39.6	261
191-24-2	Benzo(g,h,i)perylene	324		38.7	261
98-86-2	Acetophenone	96.7	U	96.7	261
95-94-3	1,2,4,5-Tetrachlorobenzene	45.4	U	45.4	261
86-74-8	Carbazole	142	J	52.2	261
105-60-2	Caprolactam	135	U	135	261
92-52-4	1,1'-Biphenyl	59	U	59	261
1912-24-9	Atrazine	76.4	U	76.4	261
100-52-7	Benzaldehyde	43.5	U	43.5	261

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-15

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584311 Lab File ID: 84311.D

Sample wt/vol: 25.45 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1656

PercentSolids: 82.2 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC14 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	64	U	64	258
108-95-2	Phenol	62.1	U	62.1	1280
95-57-8	2-Chlorophenol	66	U	66	258
108-60-1	2,2'-Oxybis(1-chloropropane)	210	U	210	258
95-48-7	2-Methylphenol	91.8	U	91.8	255
67-72-1	Hexachloroethane	47.8	U	47.8	258
621-64-7	N-Nitroso-di-n-propylamine	58.3	U	58.3	258
106-44-5	4-Methylphenol	56.4	U	56.4	258
98-95-3	Nitrobenzene	57.4	U	57.4	258
78-59-1	Isophorone	56.4	U	56.4	258
88-75-5	2-Nitrophenol	68.8	U	68.8	258
105-67-9	2,4-Dimethylphenol	54.5	U	54.5	255
111-91-1	Bis(2-chloroethoxy)methane	54.5	U	54.5	255
120-83-2	2,4-Dichlorophenol	71.7	U	71.7	255
91-20-3	Naphthalene	61.2	U	61.2	258
106-47-8	4-Chloroaniline	60.2	U	60.2	258
91-57-6	2-Methylnaphthalene	55.4	U	55.4	258
87-68-3	Hexachlorobutadiene	55.4	U	55.4	258
59-50-7	4-Chloro-3-methylphenol	53.5	U	53.5	258
77-47-4	Hexachlorocyclopentadiene	38.2	U	38.2	638
88-06-2	2,4,6-Trichlorophenol	65	U	65	255
95-95-4	2,4,5-Trichlorophenol	70.7	U	70.7	255
91-58-7	2-Chloronaphthalene	63.8	U	63.8	258
88-74-4	2-Nitroaniline	54.5	U	54.5	258
208-96-8	Acenaphthylene	52.6	U	52.6	258
131-11-3	Dimethylphthalate	56.4	U	56.4	258

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-15

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584311 Lab File ID: 84311.D

Sample wt/vol: 25.45 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1656

PercentSolids: 82.2 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC14 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	47.8	U	47.8	258
83-32-9	Acenaphthene	46.8	U	46.8	258
99-09-2	3-Nitroaniline	76.5	U	76.5	255
51-28-5	2,4-Dinitrophenol	210	U	210	1280
132-64-9	Dibenzofuran	51.6	U	51.6	258
121-14-2	2,4-Dinitrotoluene	46.8	U	46.8	258
100-02-7	4-Nitrophenol	50.7	U	50.7	638
86-73-7	Fluorene	48.8	U	48.8	258
7005-72-3	4-Chlorophenyl-phenylether	48.8	U	48.8	258
84-66-2	Diethylphthalate	48.8	U	48.8	258
100-01-6	4-Nitroaniline	84.1	U	84.1	255
534-52-1	4,6-Dinitro-2-methylphenol	254	U	254	258
86-30-6	N-Nitrosodiphenylamine	60.2	U	60.2	255
101-55-3	4-Bromophenyl-phenylether	46.8	U	46.8	258
118-74-1	Hexachlorobenzene	50.7	U	50.7	255
87-86-5	Pentachlorophenol	127	U	127	258
85-01-8	Phenanthrene	53.5	U	53.5	258
120-12-7	Anthracene	57.4	U	57.4	258
84-74-2	Di-n-butylphthalate	42.1	U	42.1	258
206-44-0	Fluoranthene	45.9	U	45.9	258
129-00-0	Pyrene	88	U	88	258
85-68-7	Butylbenzylphthalate	60.2	U	60.2	258
91-94-1	3,3'-Dichlorobenzidine	56.4	U	56.4	258
56-55-3	Benzo(a)anthracene	54.5	U	54.5	258
218-01-9	Chrysene	32.5	U	32.5	255
117-81-7	Bis(2-ethylhexyl)phthalate	79.3	U	79.3	258

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-15

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584311 Lab File ID: 84311.D

Sample wt/vol: 25.45 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1656

PercentSolids: 82.2 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC14 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	55.4	U	55.4	258
205-99-2	Benzo(b)fluoranthene	60.2	U	60.2	258
207-08-9	Benzo(k)fluoranthene	54.5	U	54.5	258
50-32-8	Benzo(a)pyrene	41.1	U	41.1	258
193-39-5	Indeno(1,2,3-cd)pyrene	49.7	U	49.7	258
53-70-3	Dibenzo(a,h)anthracene	39.2	U	39.2	258
191-24-2	Benzo(g,h,i)perylene	38.2	U	38.2	258
98-86-2	Acetophenone	95.6	U	95.6	258
95-94-3	1,2,4,5-Tetrachlorobenzene	44.9	U	44.9	258
86-74-8	Carbazole	51.6	U	51.6	258
105-60-2	Caprolactam	134	U	134	258
92-52-4	1,1'-Biphenyl	58.3	U	58.3	258
1912-24-9	Atrazine	75.5	U	75.5	258
100-52-7	Benzaldehyde	43	U	43	258

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13 EPAFMC-SD-16

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584312 Lab File ID: 84312.D

Sample wt/vol: 25.38 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1720

PercentSolids: 80.1 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC11 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	65.9	U	65.9	266
108-95-2	Phenol	63.9	U	63.9	1310
95-57-8	2-Chlorophenol	67.9	U	67.9	266
108-60-1	2,2'-Oxybis(1-chloropropane)	216	U	216	266
95-48-7	2-Methylphenol	94.4	U	94.4	263
67-72-1	Hexachloroethane	49.2	U	49.2	266
621-64-7	N-Nitroso-di-n-propylamine	60	U	60	266
106-44-5	4-Methylphenol	58	U	58	266
98-95-3	Nitrobenzene	59	U	59	266
78-59-1	Isophorone	58	U	58	266
88-75-5	2-Nitrophenol	70.8	U	70.8	266
105-67-9	2,4-Dimethylphenol	56.1	U	56.1	263
111-91-1	Bis(2-chloroethoxy)methane	56.1	U	56.1	263
120-83-2	2,4-Dichlorophenol	73.8	U	73.8	263
91-20-3	Naphthalene	431		63	266
106-47-8	4-Chloroaniline	62	U	62	266
91-57-6	2-Methylnaphthalene	81.5	J	57.1	266
87-68-3	Hexachlorobutadiene	57.1	U	57.1	266
59-50-7	4-Chloro-3-methylphenol	55.1	U	55.1	266
77-47-4	Hexachlorocyclopentadiene	39.4	U	39.4	656
88-06-2	2,4,6-Trichlorophenol	66.9	U	66.9	263
95-95-4	2,4,5-Trichlorophenol	72.8	U	72.8	263
91-58-7	2-Chloronaphthalene	65.6	U	65.6	266
88-74-4	2-Nitroaniline	56.1	U	56.1	266
208-96-8	Acenaphthylene	86.3	J	54.1	266
131-11-3	Dimethylphthalate	58	U	58	266

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-16

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584312 Lab File ID: 84312.D

Sample wt/vol: 25.38 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1720

PercentSolids: 80.1 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC11 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	49.2	U	49.2	266
83-32-9	Acenaphthene	48.2	U	48.2	266
99-09-2	3-Nitroaniline	78.7	U	78.7	263
51-28-5	2,4-Dinitrophenol	216	U	216	1320
132-64-9	Dibenzofuran	77.6	J	53.1	266
121-14-2	2,4-Dinitrotoluene	48.2	U	48.2	266
100-02-7	4-Nitrophenol	52.1	U	52.1	656
86-73-7	Fluorene	66.6	J	50.2	266
7005-72-3	4-Chlorophenyl-phenylether	50.2	U	50.2	266
84-66-2	Diethylphthalate	50.2	U	50.2	266
100-01-6	4-Nitroaniline	86.6	U	86.6	263
534-52-1	4,6-Dinitro-2-methylphenol	262	U	262	266
86-30-6	N-Nitrosodiphenylamine	62	U	62	263
101-55-3	4-Bromophenyl-phenylether	48.2	U	48.2	266
118-74-1	Hexachlorobenzene	52.1	U	52.1	263
87-86-5	Pentachlorophenol	131	U	131	266
85-01-8	Phenanthrene	314		55.1	266
120-12-7	Anthracene	152	J	59	266
84-74-2	Di-n-butylphthalate	43.3	U	43.3	266
206-44-0	Fluoranthene	710		47.2	266
129-00-0	Pyrene	610		90.5	266
85-68-7	Butylbenzylphthalate	62	U	62	266
91-94-1	3,3'-Dichlorobenzidine	58	U	58	266
56-55-3	Benzo(a)anthracene	414		56.1	266
218-01-9	Chrysene	438		33.4	263
117-81-7	Bis(2-ethylhexyl)phthalate	81.6	U	81.6	266

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-16

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584312 Lab File ID: 84312.D

Sample wt/vol: 25.38 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1720

PercentSolids: 80.1 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC11 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	57.1	U	57.1	266
205-99-2	Benzo(b)fluoranthene	410		62	266
207-08-9	Benzo(k)fluoranthene	329		56.1	266
50-32-8	Benzo(a)pyrene	303		42.3	266
193-39-5	Indeno(1,2,3-cd)pyrene	145	J	51.1	266
53-70-3	Dibenzo(a,h)anthracene	40.3	U	40.3	266
191-24-2	Benzo(g,h,i)perylene	164	J	39.4	266
98-86-2	Acetophenone	98.4	U	98.4	266
95-94-3	1,2,4,5-Tetrachlorobenzene	46.2	U	46.2	266
86-74-8	Carbazole	79.3	J	53.1	266
105-60-2	Caprolactam	138	U	138	266
92-52-4	1,1'-Biphenyl	60	U	60	266
1912-24-9	Atrazine	77.7	U	77.7	266
100-52-7	Benzaldehyde	44.3	U	44.3	266

8270 QC Summary

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
128824MB

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 128824MB Lab File ID: 9300MB.D

Sample wt/vol: 20.34 Units: G Date Received: 05/03/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/03/12 Time: 1403

PercentSolids: 100 decanted : (_____) Dilution Factor: 1

Extraction: OTHER Station ID: _____ Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	65.9	U	65.9	265
108-95-2	Phenol	63.9	U	63.9	1310
95-57-8	2-Chlorophenol	67.8	U	67.8	265
108-60-1	2,2'-Oxybis(1-chloropropane)	216	U	216	265
95-48-7	2-Methylphenol	94.4	U	94.4	262
67-72-1	Hexachloroethane	49.2	U	49.2	265
621-64-7	N-Nitroso-di-n-propylamine	60	U	60	265
106-44-5	4-Methylphenol	58	U	58	265
98-95-3	Nitrobenzene	59	U	59	265
78-59-1	Isophorone	58	U	58	265
88-75-5	2-Nitrophenol	70.8	U	70.8	265
105-67-9	2,4-Dimethylphenol	56	U	56	262
111-91-1	Bis(2-chloroethoxy)methane	56	U	56	262
120-83-2	2,4-Dichlorophenol	73.7	U	73.7	262
91-20-3	Naphthalene	62.9	U	62.9	265
106-47-8	4-Chloroaniline	61.9	U	61.9	265
91-57-6	2-Methylnaphthalene	57	U	57	265
87-68-3	Hexachlorobutadiene	57	U	57	265
59-50-7	4-Chloro-3-methylphenol	55.1	U	55.1	265
77-47-4	Hexachlorocyclopentadiene	39.3	U	39.3	656
88-06-2	2,4,6-Trichlorophenol	66.9	U	66.9	262
95-95-4	2,4,5-Trichlorophenol	72.8	U	72.8	262
91-58-7	2-Chloronaphthalene	65.6	U	65.6	265
88-74-4	2-Nitroaniline	56	U	56	265
208-96-8	Acenaphthylene	54.1	U	54.1	265
131-11-3	Dimethylphthalate	58	U	58	265
606-20-2	2,6-Dinitrotoluene	49.2	U	49.2	265

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
128824MB

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 128824MB Lab File ID: 9300MB.D

Sample wt/vol: 20.34 Units: G Date Received: 05/03/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/03/12 Time: 1403

PercentSolids: 100 decanted : (_____ Dilution Factor: 1

Extraction: OTHER Station ID: _____ Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
83-32-9	Acenaphthene	48.2	U	48.2	265
99-09-2	3-Nitroaniline	78.7	U	78.7	262
51-28-5	2,4-Dinitrophenol	216	U	216	1320
132-64-9	Dibenzofuran	53.1	U	53.1	265
121-14-2	2,4-Dinitrotoluene	48.2	U	48.2	265
100-02-7	4-Nitrophenol	52.1	U	52.1	656
86-73-7	Fluorene	50.1	U	50.1	265
7005-72-3	4-Chlorophenyl-phenylether	50.1	U	50.1	265
84-66-2	Diethylphthalate	50.1	U	50.1	265
100-01-6	4-Nitroaniline	86.5	U	86.5	262
534-52-1	4,6-Dinitro-2-methylphenol	262	U	262	265
86-30-6	N-Nitrosodiphenylamine	61.9	U	61.9	262
101-55-3	4-Bromophenyl-phenylether	48.2	U	48.2	265
118-74-1	Hexachlorobenzene	52.1	U	52.1	262
87-86-5	Pentachlorophenol	131	U	131	265
85-01-8	Phenanthrene	55.1	U	55.1	265
120-12-7	Anthracene	59	U	59	265
84-74-2	Di-n-butylphthalate	43.3	U	43.3	265
206-44-0	Fluoranthene	47.2	U	47.2	265
129-00-0	Pyrene	90.5	U	90.5	265
85-68-7	Butylbenzylphthalate	61.9	U	61.9	265
91-94-1	3,3'-Dichlorobenzidine	58	U	58	265
56-55-3	Benzo(a)anthracene	56	U	56	265
218-01-9	Chrysene	33.4	U	33.4	262
117-81-7	Bis(2-ethylhexyl)phthalate	144	J	81.6	265
117-84-0	Di-n-octylphthalate	57	U	57	265
205-99-2	Benzo(b)fluoranthene	61.9	U	61.9	265

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
128824MB

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 128824MB Lab File ID: 9300MB.D

Sample wt/vol: 20.34 Units: G Date Received: 05/03/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/03/12 Time: 1403

PercentSolids: 100 decanted : (_____ Dilution Factor: 1

Extraction: OTHER Station ID: _____ Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
207-08-9	Benzo(k)fluoranthene	56	U	56	265
50-32-8	Benzo(a)pyrene	42.3	U	42.3	265
193-39-5	Indeno(1,2,3-cd)pyrene	51.1	U	51.1	265
53-70-3	Dibenzo(a,h)anthracene	40.3	U	40.3	265
191-24-2	Benzo(g,h,i)perylene	39.3	U	39.3	265
98-86-2	Acetophenone	98.3	U	98.3	265
95-94-3	1,2,4,5-Tetrachlorobenzene	46.2	U	46.2	265
86-74-8	Carbazole	53.1	U	53.1	265
105-60-2	Caprolactam	138	U	138	265
92-52-4	1,1'-Biphenyl	60	U	60	265
1912-24-9	Atrazine	77.7	U	77.7	265
100-52-7	Benzaldehyde	44.2	U	44.2	265

SEMI-VOLATILE ORGANIC METHOD BLANK SUMMARY

Lab Name: Spectrum Analytical, Inc Contract: OTIE- Five Mile Creek / Site 1392 EPA Sample No. 128824MB

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Lab File ID: 9300MB.D Lab Sample ID: 128824MB

Instrument ID: SMSD03 Date Extracted: 05/03/12

Matrix: SOIL Date Analyzed: 05/03/12

Level:(low/med) LOW Time Analyzed: 1403

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	128825LCS	128825LCS	9300LCS.D	05/03/12	1427
2	EPAFMC-SD-07	350584301	84301.D	05/04/12	1145
3	EPAFMC-SD-07MS	350584302	84302.D	05/04/12	1322
4	EPAFMC-SD-07SD	350584303	84303.D	05/04/12	1346
5	EPAFMC-SD-08	350584304	84304.D	05/04/12	1409
6	EPAFMC-SD-09	350584305	84305.D	05/04/12	1433
7	EPAFMC-SD-10	350584306	84306.D	05/04/12	1457
8	EPAFMC-SD-11	350584307	84307.D	05/04/12	1521
9	EPAFMC-SD-12	350584308	84308.D	05/04/12	1545
10	EPAFMC-SD-13	350584309	84309.D	05/04/12	1609
11	EPAFMC-SD-14	350584310	84310.D	05/04/12	1632
12	EPAFMC-SD-15	350584311	84311.D	05/04/12	1656
13	EPAFMC-SD-16	350584312	84312.D	05/04/12	1720

COMMENTS:

2A

SOIL SEMI-VOLATILE ORGANIC SURROGATE RECOVERY

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1Lab Code : PEL Case No. SAS No: SDG NO.: 3505843Column(1): HPMS-5 ID: 0.25 (mm)

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
128824MB	79.3	76.4	77.2	72.0	87.2	91.1	0
128825LCS	73.1	72.7	76.1	79.8	94.7	76.1	0
EPAFMC-SD-07	69.3	67.4	55.7	53.4	77.3	63.6	0
EPAFMC-SD-07MS	67.0	68.6	65.3	64.9	84.2	70.2	0
EPAFMC-SD-07SD	58.3	59.0	51.1	49.6	62.0	50.8	0
EPAFMC-SD-08	62.1	61.3	62.6	59.6	66.5	70.4	0
EPAFMC-SD-09	51.9	52.9	45.1	41.2	55.8	47.9	0
EPAFMC-SD-10	61.3	60.7	54.3	47.7	66.5	63.0	0
EPAFMC-SD-11	61.5	62.1	55.1	48.0	68.2	56.3	0
EPAFMC-SD-12	51.5	51.7	50.4	42.5	59.1	50.9	0
EPAFMC-SD-13	34.6	50.2	57.1	53.1	68.3	82.7	0
EPAFMC-SD-14	51.3	53.2	12.9 *	22.6 *	58.2	59.5	2
EPAFMC-SD-15	39.7	45.8	11.6 *	15.3 *	52.7	46.0	2
EPAFMC-SD-16	61.0	61.8	59.3	54.1	74.6	67.5	0

Control Limits

S1 = 2-Fluorophenol	25 - 121
S2 = Phenol-d5	24 - 113
S3 = Nitrobenzene-d5	23 - 120
S4 = 2-Fluorobiphenyl	30 - 115
S5 = 2,4,6-Tribromophenol	19 - 122
S6 = p-Terphenyl-d14	18 - 137

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

Control limit source: (lab/method) METHOD

Form II

**SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION -
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)**

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. SAS No: SDG No.: 3505843
 Lab File ID: DFTPP2.D DFTPP Injection Date: 04/23/12
 Instrument ID: SMSD03 DFTPP Injection Time: 1003
 GC Column: HPMS-5 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	30.2
68	Less than 2.0% of mass 69	0.6 (1.3)1
69	Mass 69 relative abundance	49.4
70	Less than 2.0% of mass 69	0.4 (0.83)1
127	10.0 - 80.0% of mass 198	45.1
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 - 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	33
365	Greater than 1.0% of mass 198	6.5
441	0.0 - 24.0% of mass 442	13.5 (14.69)2
442	Greater than 50.0% of mass 198	92
443	15.0 - 24.0% of mass 442	17.3 (18.77)2

1-Value is % of mass 69

2-Value is % of mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	STD1072999	45921	8270CAL7.D	04/23/12	1023
2	STD1073000	45922	8270CAL6.D	04/23/12	1047
3	STD1073001	45923	8270CAL5.D	04/23/12	1110
4	STD1073002	45924	8270CAL4.D	04/23/12	1134
5	STD1073004	45925	8270CAL3.D	04/23/12	1158
6	STD1073005	45926	8270CAL2.D	04/23/12	1221
7	STD1073006	45927	8270CAL1.D	04/23/12	1245
8	SSC1072998	45872	8270SEC2.D	04/23/12	1333
9	STD1073007	45933	BSCAL7.D	04/23/12	1356
10	STD1073008	45934	BSCAL6.D	04/23/12	1420
11	STD1073009	45935	BSCAL5.D	04/23/12	1444
12	STD1073010	45936	BSCAL4.D	04/23/12	1507
13	STD1073012	45937	BSCAL3.D	04/23/12	1531
14	STD1073013	45938	BSCAL2.D	04/23/12	1555
15	STD1073014	45939	BSCAL1.D	04/23/12	1619
16	SSC1072994	44859	BSSEC.D	04/23/12	1642
17	STD1073015	45955	AP9CAL7.D	04/23/12	1706
18	STD1073016	45956	AP9CAL6.D	04/23/12	1730
19	STD1073017	45957	AP9CAL5.D	04/23/12	1753

**SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION -
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)**

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. SAS No: SDG No.: 3505843
 Lab File ID: DFTPP2.D DFTPP Injection Date: 04/23/12
 Instrument ID: SMSD03 DFTPP Injection Time: 1003
 GC Column: HPMS-5 ID: 0.25 (mm)

20	STD1073018	45958	AP9CAL4.D	04/23/12	1817
21	STD1073020	45959	AP9CAL3.D	04/23/12	1841
22	STD1073021	45960	AP9CAL2.D	04/23/12	1904
23	STD1073022	45961	AP9CAL1.D	04/23/12	1928
24	SSC1072993	44612	AP9SEC2.D	04/23/12	2015

**SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION -
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)**

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. SAS No: SDG No.: 3505843
 Lab File ID: DFTPP1.D DFTPP Injection Date: 05/03/12
 Instrument ID: SMSD03 DFTPP Injection Time: 1031
 GC Column: HPMS-5 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	29.1
68	Less than 2.0% of mass 69	0.8 (1.79)1
69	Mass 69 relative abundance	46.6
70	Less than 2.0% of mass 69	0.4 (0.96)1
127	10.0 - 80.0% of mass 198	44.1
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 - 9.0% of mass 198	7.2
275	10.0 - 60.0% of mass 198	33.3
365	Greater than 1.0% of mass 198	6.6
441	0.0 - 24.0% of mass 442	12.9 (13.59)2
442	Greater than 50.0% of mass 198	94.8
443	15.0 - 24.0% of mass 442	21.2 (22.32)2

1-Value is % of mass 69

2-Value is % of mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV1077096	45936	BSCCV1.D	05/03/12	1115
2	CCV1077095	45958	AP9CCV1.D	05/03/12	1139
3	CCV1077094	45924	8270CCV2.D	05/03/12	1203
4	128824MB	128824MB	9300MB.D	05/03/12	1403
5	128825LCS	128825LCS	9300LCS.D	05/03/12	1427

**SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION -
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)**

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. SAS No: SDG No.: 3505843
 Lab File ID: DFTPP1.D DFTPP Injection Date: 05/04/12
 Instrument ID: SMSD03 DFTPP Injection Time: 0753
 GC Column: HPMS-5 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	27.8
68	Less than 2.0% of mass 69	0.5 (1.13)1
69	Mass 69 relative abundance	45.5
70	Less than 2.0% of mass 69	0.3 (0.73)1
127	10.0 - 80.0% of mass 198	43.8
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 - 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	34.6
365	Greater than 1.0% of mass 198	6.8
441	0.0 - 24.0% of mass 442	16.8 (16.36)2
442	Greater than 50.0% of mass 198	102.4
443	15.0 - 24.0% of mass 442	20.2 (19.69)2

1-Value is % of mass 69

2-Value is % of mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV1077399	45924	8270CCV1.D	05/04/12	0813
2	CCV1077401	45936	BSCCV1.D	05/04/12	0836
3	CCV1077400	45958	AP9CCV1.D	05/04/12	0900
4	EPAFMC-SD-07	350584301	84301.D	05/04/12	1145
5	EPAFMC-SD-07MS	350584302	84302.D	05/04/12	1322
6	EPAFMC-SD-07SD	350584303	84303.D	05/04/12	1346
7	EPAFMC-SD-08	350584304	84304.D	05/04/12	1409
8	EPAFMC-SD-09	350584305	84305.D	05/04/12	1433
9	EPAFMC-SD-10	350584306	84306.D	05/04/12	1457
10	EPAFMC-SD-11	350584307	84307.D	05/04/12	1521
11	EPAFMC-SD-12	350584308	84308.D	05/04/12	1545
12	EPAFMC-SD-13	350584309	84309.D	05/04/12	1609
13	EPAFMC-SD-14	350584310	84310.D	05/04/12	1632
14	EPAFMC-SD-15	350584311	84311.D	05/04/12	1656
15	EPAFMC-SD-16	350584312	84312.D	05/04/12	1720

8A

SEMI-VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Lab File ID (Standard): 8270CAL4.D Date Analyzed: 4/23/2012
 Instrument ID: SMSD03 Time Analyzed: 11:34
 GC Column: HPMS-5 ID: 0.25 (mm)

	IS1 AREA #	RT	IS2 AREA #	RT	IS3 AREA #	RT
MID CAL STD	324938	4.45	1085348	5.61	730887	7.31
UPPER LIMIT	649876	4.95	2170696	6.11	1461774	7.81
LOWER LIMIT	162469	3.95	542674	5.11	365443.5	6.81
EPA SAMPLE NO.						
1 128824MB	215289	4.37	719851	5.53	496820	7.22
2 128825LCS	228165	4.37	731526	5.53	505188	7.23
3 EPAFMC-SD-07	296354	4.35	1000722	5.51	692601	7.21
4 EPAFMC-SD-07MS	246458	4.35	819657	5.52	592881	7.21
5 EPAFMC-SD-07SD	281440	4.35	934621	5.52	671925	7.21
6 EPAFMC-SD-08	283897	4.35	942848	5.51	669831	7.21
7 EPAFMC-SD-09	299315	4.35	988530	5.51	700644	7.21
8 EPAFMC-SD-10	280164	4.35	959674	5.52	681558	7.21
9 EPAFMC-SD-11	281531	4.35	951105	5.51	666473	7.21
10 EPAFMC-SD-12	286624	4.35	956365	5.52	685235	7.21
11 EPAFMC-SD-13	265606	4.35	872509	5.52	632546	7.21
12 EPAFMC-SD-14	288142	4.35	947748	5.52	671511	7.21
13 EPAFMC-SD-15	262863	4.35	878290	5.51	632031	7.21
14 EPAFMC-SD-16	279647	4.35	919281	5.51	665963	7.21

IS1 = 1,4-Dichlorobenzene-d4

IS2 = Naphthalene-d8

IS3 = Acenaphthene-d10

UPPER LIMIT = +100%
of internal standard area.
LOWER LIMIT = -50%
of internal standard area

Column used to flag internal standard area values with an asterisk

SEMI-VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Lab File ID (Standard): 8270CAL4.D Date Analyzed: 4/23/2012
 Instrument ID: SMSD03 Time Analyzed: 11:34
 GC Column: HPMS-5 ID: 0.25 (mm)

	IS4 AREA #	RT	IS5 AREA #	RT	IS6 AREA #	RT	
MID CAL STD	1306281	8.76	2165349	11.36	1911346	12.68	
UPPER LIMIT	2612562	9.26	4330698	11.86	3822692	13.18	
LOWER LIMIT	653140.5	8.26	1082674.5	10.86	955673	12.18	
EPA SAMPLE NO.							
1	128824MB	983227	8.68	1311981	11.27	1361727	12.61
2	128825LCS	1004860	8.68	1734932	11.28	1373514	12.61
3	EPAFMC-SD-07	1363573	8.66	1867833	11.26	1841058	12.59
4	EPAFMC-SD-07MS	1239068	8.67	1893971	11.26	1617919	12.59
5	EPAFMC-SD-07SD	1367063	8.67	1970067	11.26	1754864	12.59
6	EPAFMC-SD-08	1330186	8.66	1834266	11.26	1805520	12.59
7	EPAFMC-SD-09	1401270	8.66	1876970	11.26	1864948	12.59
8	EPAFMC-SD-10	1375306	8.66	1855977	11.26	1794004	12.59
9	EPAFMC-SD-11	1346205	8.66	1767181	11.26	1746585	12.59
10	EPAFMC-SD-12	1385919	8.66	1896326	11.26	1830779	12.59
11	EPAFMC-SD-13	1270593	8.66	1710717	11.26	1702239	12.59
12	EPAFMC-SD-14	1371874	8.66	1889137	11.26	1830991	12.59
13	EPAFMC-SD-15	1272569	8.66	1690512	11.26	1707370	12.58
14	EPAFMC-SD-16	1340297	8.66	1815685	11.26	1781998	12.59

IS4 = Phenanthrene-d10

IS5 = Chrysene-d12

IS6 = Perylene-d12

UPPER LIMIT = +100%
of internal standard area.
LOWER LIMIT = -50%
of internal standard area

Column used to flag internal standard area values with an asterisk

SEMI-VOLATILE ORGANIC ANALYTICAL SEQUENCE

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 GC Column: HPMS-5 ID: 0.25 (mm) Init. Calib. Date: 04/23/12
 Instrument ID: SMSD03

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

MIDCAL SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 3.38			S2 : 4.14			
CLIENT SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
1	DFTPP2	45777	DFTPP2.D	04/23/12	1003	
2	STD1072999	45921	8270CAL7.D	04/23/12	1023	3.39 4.15
3	STD1073000	45922	8270CAL6.D	04/23/12	1047	3.38 4.14
4	STD1073001	45923	8270CAL5.D	04/23/12	1110	3.38 4.14
5	STD1073002	45924	8270CAL4.D	04/23/12	1134	3.38 4.14
6	STD1073004	45925	8270CAL3.D	04/23/12	1158	3.38 4.14
7	STD1073005	45926	8270CAL2.D	04/23/12	1221	3.39 4.14
8	STD1073006	45927	8270CAL1.D	04/23/12	1245	3.39 4.14
9	ZZZZZ	ZZZZZ	ZZZZZ	04/23/12	1309	
10	SSC1072998	45872	8270SEC2.D	04/23/12	1333	3.38 4.14
11	STD1073007	45933	BSCAL7.D	04/23/12	1356	
12	STD1073008	45934	BSCAL6.D	04/23/12	1420	
13	STD1073009	45935	BSCAL5.D	04/23/12	1444	
14	STD1073010	45936	BSCAL4.D	04/23/12	1507	
15	STD1073012	45937	BSCAL3.D	04/23/12	1531	
16	STD1073013	45938	BSCAL2.D	04/23/12	1555	
17	STD1073014	45939	BSCAL1.D	04/23/12	1619	
18	SSC1072994	44859	BSSEC.D	04/23/12	1642	
19	STD1073015	45955	AP9CAL7.D	04/23/12	1706	
20	STD1073016	45956	AP9CAL6.D	04/23/12	1730	
21	STD1073017	45957	AP9CAL5.D	04/23/12	1753	
22	STD1073018	45958	AP9CAL4.D	04/23/12	1817	
23	STD1073020	45959	AP9CAL3.D	04/23/12	1841	
24	STD1073021	45960	AP9CAL2.D	04/23/12	1904	
25	STD1073022	45961	AP9CAL1.D	04/23/12	1928	
26	ZZZZZ	ZZZZZ	ZZZZZ	04/23/12	1952	

QC LIMITS

S1 = 2-Fluorophenol (+/- 0.27 MINUTES)
 S2 = Phenol-d5 (+/- 0.27 MINUTES)
 S3 = Nitrobenzene-d5 (+/- 0.34 MINUTES)
 S4 = 2-Fluorobiphenyl (+/- 0.44 MINUTES)
 S5 = 2,4,6-Tribromophenol (+/- 0.44 MINUTES)
 S6 = p-Terphenyl-d14 (+/- 0.68 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits

SEMI-VOLATILE ORGANIC ANALYTICAL SEQUENCE

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 GC Column: HPMS-5 ID: 0.25 (mm) Init. Calib. Date: 04/23/12
 Instrument ID: SMSD03

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

MIDCAL SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 3.38			S2 : 4.14			
CLIENT SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
27	SSC1072993	44612	AP9SEC2.D	04/23/12	2015	
28	DFTPP1	45777	DFTPP1.D	05/03/12	1031	
29	ZZZZZZ	ZZZZZZ	ZZZZZZ	05/03/12	1051	
30	CCV1077096	45936	BSCCV1.D	05/03/12	1115	
31	CCV1077095	45958	AP9CCV1.D	05/03/12	1139	
32	CCV1077094	45924	8270CCV2.D	05/03/12	1203	3.29 4.05
33	ZZZZZZ	ZZZZZZ	ZZZZZZ	05/03/12	1226	
34	ZZZZZZ	ZZZZZZ	ZZZZZZ	05/03/12	1250	
35	ZZZZZZ	ZZZZZZ	ZZZZZZ	05/03/12	1314	
36	ZZZZZZ	ZZZZZZ	ZZZZZZ	05/03/12	1338	
37	128824MB	128824MB	9300MB.D	05/03/12	1403	3.3 4.05
38	128825LCS	128825LCS	9300LCS.D	05/03/12	1427	3.3 4.05
39	DFTPP1	45777	DFTPP1.D	05/04/12	0753	
40	CCV1077399	45924	8270CCV1.D	05/04/12	0813	3.28 4.04
41	CCV1077401	45936	BSCCV1.D	05/04/12	0836	
42	CCV1077400	45958	AP9CCV1.D	05/04/12	0900	
43	ZZZZZZ	ZZZZZZ	ZZZZZZ	05/04/12	1122	
44	EPAFMC-SD-07	350584301	84301.D	05/04/12	1145	3.28 4.04
45	ZZZZZZ	ZZZZZZ	ZZZZZZ	05/04/12	1210	
46	ZZZZZZ	ZZZZZZ	ZZZZZZ	05/04/12	1234	
47	ZZZZZZ	ZZZZZZ	ZZZZZZ	05/04/12	1258	
48	EPAFMC-SD-07MS	350584302	84302.D	05/04/12	1322	3.28 4.04
49	EPAFMC-SD-07SD	350584303	84303.D	05/04/12	1346	3.28 4.04
50	EPAFMC-SD-08	350584304	84304.D	05/04/12	1409	3.28 4.04
51	EPAFMC-SD-09	350584305	84305.D	05/04/12	1433	3.28 4.04
52	EPAFMC-SD-10	350584306	84306.D	05/04/12	1457	3.28 4.04

QC LIMITS

S1 = 2-Fluorophenol (+/- 0.27 MINUTES)
 S2 = Phenol-d5 (+/- 0.27 MINUTES)
 S3 = Nitrobenzene-d5 (+/- 0.34 MINUTES)
 S4 = 2-Fluorobiphenyl (+/- 0.44 MINUTES)
 S5 = 2,4,6-Tribromophenol (+/- 0.44 MINUTES)
 S6 = p-Terphenyl-d14 (+/- 0.68 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits

SEMI-VOLATILE ORGANIC ANALYTICAL SEQUENCE

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 GC Column: HPMS-5 ID: 0.25 (mm) Init. Calib. Date: 04/23/12
 Instrument ID: SMSD03

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

MIDCAL SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 3.38			S2 : 4.14			
CLIENT SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
53	EPAFMC-SD-11	350584307	84307.D	05/04/12	1521	3.28 4.04
54	EPAFMC-SD-12	350584308	84308.D	05/04/12	1545	3.28 4.04
55	EPAFMC-SD-13	350584309	84309.D	05/04/12	1609	3.28 4.04
56	EPAFMC-SD-14	350584310	84310.D	05/04/12	1632	3.28 4.04
57	EPAFMC-SD-15	350584311	84311.D	05/04/12	1656	3.28 4.04
58	EPAFMC-SD-16	350584312	84312.D	05/04/12	1720	3.28 4.04
59	ZZZZZZ	ZZZZZZ	ZZZZZZ	05/04/12	1744	

QC LIMITS

S1 = 2-Fluorophenol (+/- 0.27 MINUTES)
 S2 = Phenol-d5 (+/- 0.27 MINUTES)
 S3 = Nitrobenzene-d5 (+/- 0.34 MINUTES)
 S4 = 2-Fluorobiphenyl (+/- 0.44 MINUTES)
 S5 = 2,4,6-Tribromophenol (+/- 0.44 MINUTES)
 S6 = p-Terphenyl-d14 (+/- 0.68 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits

SEMI-VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1

128825LCS

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	LCS CONCENTRATION ug/Kg	LCS % REC #	LCS % RPD	QC LIMITS	
					RPD	REC.
Bis(2-chloroethyl)ether	1980	1550	78.3			58 - 124
Phenol	1980	1380	69.7			39 - 127
2-Chlorophenol	1980	1430	72.2			42 - 113
2,2'-Oxybis(1-chloropropane)	1980	1350	68.2			42 - 139
2-Methylphenol	1980	1330	67.2			55 - 112
Hexachloroethane	1980	1420	71.7			51 - 120
N-Nitroso-di-n-propylamine	1980	1840	92.9			58 - 121
4-Methylphenol	1980	1710	86.4			48 - 127
Nitrobenzene	1980	1480	74.7			56 - 114
Isophorone	1980	1870	94.4			75 - 135
2-Nitrophenol	1980	1460	73.7			50 - 110
2,4-Dimethylphenol	1980	1600	80.8			43 - 125
Bis(2-chloroethoxy)methane	1980	1550	78.3			67 - 117
2,4-Dichlorophenol	1980	1510	76.3			50 - 120
Naphthalene	1980	1520	76.8			54 - 123
4-Chloroaniline	1980	1430	72.2			15 - 110
2-Methylnaphthalene	1980	1520	76.8			63 - 118
Hexachlorobutadiene	1980	1630	82.3			64 - 114
4-Chloro-3-methylphenol	1980	1670	84.3			48 - 114
Hexachlorocyclopentadiene	1980	1060	53.5			33 - 113
2,4,6-Trichlorophenol	1980	1520	76.8			49 - 120
2,4,5-Trichlorophenol	1980	1800	90.9			69 - 110
2-Chloronaphthalene	1980	1550	78.3			67 - 120
2-Nitroaniline	1980	1900	96.0			52 - 133
Acenaphthylene	1980	1690	85.4			57 - 123
Dimethylphthalate	1980	1780	89.9			72 - 116
2,6-Dinitrotoluene	1980	1670	84.3			63 - 120
Acenaphthene	1980	1530	77.3			61 - 112
3-Nitroaniline	1980	1720	86.9			62 - 119
2,4-Dinitrophenol	3960	3150	79.5			15 - 150
Dibenzofuran	1980	1700	85.9			64 - 120
2,4-Dinitrotoluene	1980	1740	87.9			64 - 113

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

SEMI-VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1

128825LCS

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	LCS CONCENTRATION ug/Kg	LCS % REC #	LCS % RPD	QC LIMITS	
					RPD	REC.
4-Nitrophenol	1980	2000	101.0			10 - 162
Fluorene	1980	1710	86.4			57 - 118
4-Chlorophenyl-phenylether	1980	1730	87.4			69 - 120
Diethylphthalate	1980	1820	91.9			63 - 126
4-Nitroaniline	1980	1910	96.5			61 - 123
4,6-Dinitro-2-methylphenol	1980	1490	75.3			31 - 120
N-Nitrosodiphenylamine	1980	1650	83.3			72 - 122
4-Bromophenyl-phenylether	1980	1600	80.8			72 - 111
Hexachlorobenzene	1980	1520	76.8			66 - 110
Pentachlorophenol	1980	1930	97.5			25 - 138
Phenanthrene	1980	1660	83.8			61 - 118
Anthracene	1980	1680	84.8			65 - 118
Di-n-butylphthalate	1980	1740	87.9			72 - 122
Fluoranthene	1980	1780	89.9			66 - 119
Pyrene	1980	1590	80.3			62 - 117
Butylbenzylphthalate	1980	1700	85.9			69 - 127
3,3'-Dichlorobenzidine	3960	2350	59.3			20 - 110
Benzo(a)anthracene	1980	1680	84.8			66 - 120
Chrysene	1980	1580	79.8			64 - 113
Bis(2-ethylhexyl)phthalate	1980	3200	162.0*			68 - 126
Di-n-octylphthalate	1980	1930	97.5			69 - 131
Benzo(b)fluoranthene	1980	2060	104.0			61 - 114
Benzo(k)fluoranthene	1980	1790	90.4			61 - 121
Benzo(a)pyrene	1980	1800	90.9			66 - 111
Indeno(1,2,3-cd)pyrene	1980	1780	89.9			52 - 120
Dibenzo(a,h)anthracene	1980	1810	91.4			53 - 120
Benzo(g,h,i)perylene	1980	1750	88.4			55 - 122
Acetophenone	3960	3100	78.3			32 - 114
1,2,4,5-Tetrachlorobenzene	1980	1430	72.2			51 - 110
Carbazole	1980	1910	96.5			66 - 125
Caprolactam	1980	1620	81.8			10 - 150
1,1'-Biphenyl	1980	1450	73.2			10 - 150

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

SEMI-VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1

128825LCS

Lab Code : PEL Case No. SAS No: SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	LCS CONCENTRATION ug/Kg	LCS % REC #	LCS % RPD	QC LIMITS	
					RPD	REC.
Atrazine	1980	1420	71.7			10 - 191
Benzaldehyde	1980	1110	56.1			10 - 158

Spike Recovery: 1 out of 66 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek /

EPAFMC-SD-07MS

Lab Code : PEL Case No.: SAS No: SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC #	QC LIMITS REC.
Bis(2-chloroethyl)ether	2100	0	1600	73.8	30 - 126
Phenol	2100	0	1400	68.6	30 - 129
2-Chlorophenol	2100	0	1400	65.7	16 - 113
2,2'-Oxybis(1-chloropropane)	2100	0	1200	59.0	20 - 123
2-Methylphenol	2100	0	1400	67.1	27 - 117
Hexachloroethane	2100	0	1200	57.1	24 - 120
N-Nitroso-di-n-propylamine	2100	0	1800	83.8	22 - 128
4-Methylphenol	2100	88	1800	80.6	30 - 150
Nitrobenzene	2100	0	1300	62.9	14 - 129
Isophorone	2100	0	1800	87.6	35 - 144
2-Nitrophenol	2100	0	1200	58.6	14 - 113
2,4-Dimethylphenol	2100	0	1600	76.7	30 - 110
Bis(2-chloroethoxy)methane	2100	0	1500	72.4	31 - 126
2,4-Dichlorophenol	2100	0	1500	70.5	18 - 115
Naphthalene	2100	0	1500	72.4	29 - 119
4-Chloroaniline	2100	0	1600	74.8	30 - 143
2-Methylnaphthalene	2100	0	1400	69.0	33 - 120
Hexachlorobutadiene	2100	0	1500	70.0	32 - 120
4-Chloro-3-methylphenol	2100	0	1600	76.2	30 - 123
Hexachlorocyclopentadiene	2100	0	130	6.1 *	10 - 119
2,4,6-Trichlorophenol	2100	0	1400	66.2	14 - 118
2,4,5-Trichlorophenol	2100	0	1700	81.9	29 - 125
2-Chloronaphthalene	2100	0	1400	67.1	31 - 118
2-Nitroaniline	2100	0	1700	80.5	22 - 134
Acenaphthylene	2100	0	1500	72.9	26 - 123
Dimethylphthalate	2100	0	1700	79.5	33 - 127
2,6-Dinitrotoluene	2100	0	1500	69.5	26 - 123
Acenaphthene	2100	0	1400	69.0	30 - 135
3-Nitroaniline	2100	0	1700	79.0	20 - 125
2,4-Dinitrophenol	4200	0	0	0.0 *	15 - 150

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek /

EPAFMC-SD-07MS

Lab Code : PEL Case No.: SAS No.: SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC #	QC LIMITS REC.
Dibenzofuran	2100	0	1600	74.8	31 - 123
2,4-Dinitrotoluene	2100	0	1500	71.0	17 - 127
4-Nitrophenol	2100	0	1700	81.4	30 - 135
Fluorene	2100	0	1600	73.8	25 - 120
4-Chlorophenyl-phenylether	2100	0	1500	72.9	10 - 119
Diethylphthalate	2100	0	1700	80.0	30 - 127
4-Nitroaniline	2100	0	1900	90.0	10 - 150
4,6-Dinitro-2-methylphenol	2100	0	560	26.7*	40 - 130
N-Nitrosodiphenylamine	2100	0	1500	71.0	31 - 137
4-Bromophenyl-phenylether	2100	0	1400	68.1	31 - 129
Hexachlorobenzene	2100	0	1300	63.8	30 - 118
Pentachlorophenol	2100	0	1600	74.8	30 - 113
Phenanthrene	2100	230	1600	64.8	28 - 121
Anthracene	2100	76	1500	68.8	31 - 121
Di-n-butylphthalate	2100	0	1600	73.8	34 - 132
Fluoranthene	2100	780	1800	50.2	29 - 125
Pyrene	2100	670	1800	52.5	31 - 125
Butylbenzylphthalate	2100	0	1600	77.1	29 - 149
3,3'-Dichlorobenzidine	4200	0	2400	57.6	20 - 110
Benzo(a)anthracene	2100	450	1700	58.1	30 - 117
Chrysene	2100	490	1700	55.8	32 - 115
Bis(2-ethylhexyl)phthalate	2100	0	1700	81.4	32 - 138
Di-n-octylphthalate	2100	0	1700	81.4	30 - 150
Benzo(b)fluoranthene	2100	530	2000	68.8	23 - 128
Benzo(k)fluoranthene	2100	420	1600	57.1	31 - 120
Benzo(a)pyrene	2100	400	1800	66.2	31 - 121
Indeno(1,2,3-cd)pyrene	2100	200	1600	65.5	28 - 118
Dibenzo(a,h)anthracene	2100	72	1500	69.4	28 - 118
Benzo(g,h,i)perylene	2100	230	1500	59.9	28 - 120
Acetophenone	4200	0	3000	71.0	27 - 112

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

Form III

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek /

EPAFMC-SD-07MS

Lab Code : PEL Case No.: SAS No: SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC #	QC LIMITS REC.
1,2,4,5-Tetrachlorobenzene	2100	0	1400	65.2	47 - 110
Carbazole	2100	0	1700	79.5	34 - 133
Caprolactam	2100	0	1800	86.7	10 - 150
1,1'-Biphenyl	2100	0	1300	61.0	30 - 152
Atrazine	2100	0	1300	63.3	10 - 149
Benzaldehyde	2100	0	1200	57.1	10 - 140

Spike Recovery: 3 out of 66 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Cre

EPAFMC-SD-07SD

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	MSD CONCENTRATION ug/Kg	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
Bis(2-chloroethyl)ether	2100	1400	65.4	11.6	30	30 - 126
Phenol	2100	1300	60.2	12.5	30	30 - 129
2-Chlorophenol	2100	1200	57.8	12.3	30	16 - 113
2,2'-Oxybis(1-chloropropane)	2100	1000	48.8	18.5	30	20 - 123
2-Methylphenol	2100	1200	55.9	17.8	30	27 - 117
Hexachloroethane	2100	930	44.3	24.9	30	24 - 120
N-Nitroso-di-n-propylamine	2100	1400	66.4	22.8	30	22 - 128
4-Methylphenol	2100	1500	68.8	14.5	30	30 - 150
Nitrobenzene	2100	1100	53.6	15.5	30	14 - 129
Isophorone	2100	1500	69.2	23.0	30	35 - 144
2-Nitrophenol	2100	980	46.4	22.6	30	14 - 113
2,4-Dimethylphenol	2100	1300	63.0	19.0	30	30 - 110
Bis(2-chloroethoxy)methane	2100	1200	59.2	19.5	30	31 - 126
2,4-Dichlorophenol	2100	1200	58.8	17.6	30	18 - 115
Naphthalene	2100	1200	59.2	19.5	30	29 - 119
4-Chloroaniline	2100	1200	55.9	28.4	30	30 - 143
2-Methylnaphthalene	2100	1200	55.9	20.5	30	33 - 120
Hexachlorobutadiene	2100	1100	53.6	26.2	30	32 - 120
4-Chloro-3-methylphenol	2100	1400	64.5	16.2	30	30 - 123
Hexachlorocyclopentadiene	2100	0	0.0*	200.0*	30	10 - 119
2,4,6-Trichlorophenol	2100	1200	56.4	15.5	30	14 - 118
2,4,5-Trichlorophenol	2100	1400	65.9	21.2	30	29 - 125
2-Chloronaphthalene	2100	1100	53.6	22.0	30	31 - 118
2-Nitroaniline	2100	1400	66.4	18.8	30	22 - 134
Acenaphthylene	2100	1200	56.9	24.2	30	26 - 123
Dimethylphthalate	2100	1300	63.0	22.7	30	33 - 127
2,6-Dinitrotoluene	2100	1200	54.5	23.8	30	26 - 123
Acenaphthene	2100	1100	54.0	23.9	30	30 - 135
3-Nitroaniline	2100	1300	61.1	25.1	30	20 - 125
2,4-Dinitrophenol	4200	0	0.0*		30	15 - 150

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Cre

EPAFMC-SD-07SD

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	MSD CONCENTRATION ug/Kg	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
Dibenzofuran	2100	1200	56.9	26.7	30	31 - 123
2,4-Dinitrotoluene	2100	1200	54.5	25.8	30	17 - 127
4-Nitrophenol	2100	1400	65.9	20.6	30	30 - 135
Fluorene	2100	1200	55.9	27.1	30	25 - 120
4-Chlorophenyl-phenylether	2100	1100	54.0	29.2	30	10 - 119
Diethylphthalate	2100	1300	63.0	23.3	30	30 - 127
4-Nitroaniline	2100	1500	73.0	20.4	30	10 - 150
4,6-Dinitro-2-methylphenol	2100	670	31.8 *	17.9	30	40 - 130
N-Nitrosodiphenylamine	2100	1200	55.9	23.2	30	31 - 137
4-Bromophenyl-phenylether	2100	1100	51.7	27.0	30	31 - 129
Hexachlorobenzene	2100	1000	49.3	25.2	30	30 - 118
Pentachlorophenol	2100	1200	55.5	29.2	30	30 - 113
Phenanthrene	2100	1300	48.8	23.2	30	28 - 121
Anthracene	2100	1200	53.8	22.7	30	31 - 121
Di-n-butylphthalate	2100	1200	55.5	27.9	30	34 - 132
Fluoranthene	2100	1600	40.0	12.1	30	29 - 125
Pyrene	2100	1600	43.7	10.7	30	31 - 125
Butylbenzylphthalate	2100	1200	58.3	27.4	30	29 - 149
3,3'-Dichlorobenzidine	4200	1900	44.3	25.6	30	20 - 110
Benzo(a)anthracene	2100	1400	47.4	14.1	30	30 - 117
Chrysene	2100	1400	43.2	17.0	30	32 - 115
Bis(2-ethylhexyl)phthalate	2100	1300	63.0	25.0	30	32 - 138
Di-n-octylphthalate	2100	1300	60.7	28.8	30	30 - 150
Benzo(b)fluoranthene	2100	1600	52.8	18.3	30	23 - 128
Benzo(k)fluoranthene	2100	1300	39.8	25.0	30	31 - 120
Benzo(a)pyrene	2100	1500	51.7	18.3	30	31 - 121
Indeno(1,2,3-cd)pyrene	2100	1200	49.6	23.3	30	28 - 118
Dibenzo(a,h)anthracene	2100	1200	53.0	25.0	30	28 - 118
Benzo(g,h,i)perylene	2100	1200	46.8	19.9	30	28 - 120
Acetophenone	4200	2600	60.7	15.2	30	27 - 112

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Cre

EPAFMC-SD-07SD

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	MSD CONCENTRATION ug/Kg	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
1,2,4,5-Tetrachlorobenzene	2100	1100	51.7	22.8	30	47 - 110
Carbazole	2100	1300	63.0	22.7	30	34 - 133
Caprolactam	2100	1700	79.1	8.6	30	10 - 150
1,1'-Biphenyl	2100	1100	51.7	16.0	30	30 - 152
Atrazine	2100	1200	57.8	8.6	30	10 - 149
Benzaldehyde	2100	1200	55.5	2.5	30	10 - 140

RPD: 1 out of 66 outside limits

Spike Recovery: 3 out of 66 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

8270 Standards Data

SEMI-VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843Instrument ID: SMSD03 Calibration Date Begin: 04/23/12 End: 04/23/12GC Column: HPMS-5 ID: 0.25 (mm) Calibration Time Begin: 1023 End: 1928Min RRF for SPCC(#) = 0.05Max %RSD for CCC(*) = 30 %

LAB FILE ID:		RRF4 =8270CAL1.D	RRF10 =8270CAL2.D					
RRF20 =8270CAL3.D		RRF45 =8270CAL4.D	RRF60 =8270CAL5.D					
COMPOUND		RRF4	RRF10	RRF20	RRF45	RRF60	$\overline{\text{RRF}}$	%RSD OR R^2
Bis(2-chloroethyl)ether		1.059	1.079	1.103	1.131	1.124		
Phenol	*	1.631	1.590	1.687	1.797	1.829		*
2-Chlorophenol		1.119	1.054	1.148	1.201	1.191		
2,2'-Oxybis(1-chloropropane)		0.780	0.709	0.750	0.790	0.777		
2-Methylphenol		0.952	0.955	0.991	1.091	1.089		
Hexachloroethane		0.583	0.553	0.574	0.609	0.598		
N-Nitroso-di-n-propylamine	#	1.113	1.088	1.136	1.235	1.214		#
4-Methylphenol		1.362	1.406	1.475	1.554	1.571		
Nitrobenzene		0.526	0.524	0.528	0.543	0.527		
Isophorone		0.611	0.617	0.633	0.653	0.643		
2-Nitrophenol	*	0.179	0.188	0.197	0.197	0.203		*
2,4-Dimethylphenol		0.303	0.290	0.299	0.305	0.303		
Bis(2-chloroethoxy)methane		0.428	0.419	0.433	0.445	0.439		
2,4-Dichlorophenol	*	0.319	0.347	0.350	0.364	0.374		*
Naphthalene		1.063	0.989	1.028	1.047	1.030		
4-Chloroaniline		0.430	0.409	0.428	0.438	0.436		
2-Methylnaphthalene		0.744	0.700	0.729	0.751	0.758		
Hexachlorobutadiene	*	0.330	0.315	0.340	0.344	0.349		*
4-Chloro-3-methylphenol	*	0.330	0.321	0.342	0.354	0.350		*
Hexachlorocyclopentadiene	#	0.544	0.573	0.624	0.650	0.667		#
2,4,6-Trichlorophenol	*	0.442	0.463	0.486	0.517	0.525		*
2,4,5-Trichlorophenol		0.399	0.438	0.453	0.468	0.483		
2-Chloronaphthalene		1.087	1.104	1.169	1.216	1.205		
2-Nitroaniline		0.354	0.388	0.407	0.422	0.422		
Acenaphthylene		1.668	1.658	1.757	1.802	1.784		
Dimethylphthalate		1.307	1.314	1.378	1.403	1.374		
2,6-Dinitrotoluene		0.266	0.286	0.300	0.319	0.323		
Acenaphthene	*	0.941	0.987	1.035	1.085	1.095		*
3-Nitroaniline		0.254	0.255	0.276	0.278	0.274		
2,4-Dinitrophenol	#		0.095	0.142	0.195	0.210		#
Dibenzofuran		1.688	1.639	1.683	1.774	1.743		
2,4-Dinitrotoluene		0.377	0.399	0.411	0.433	0.446		
4-Nitrophenol	#	0.232	0.281	0.304	0.314	0.309		#
Fluorene		1.314	1.344	1.410	1.557	1.573		

SEMI-VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843Instrument ID: SMSD03 Calibration Date Begin: 04/23/12 End: 04/23/12GC Column: HPMS-5 ID: 0.25 (mm) Calibration Time Begin: 1023 End: 1928Min RRF for SPCC(#) = 0.05Max %RSD for CCC(*) = 30 %

LAB FILE ID:		RRF4 =8270CAL1.D	RRF10 =8270CAL2.D				
RRF20 =8270CAL3.D		RRF45 =8270CAL4.D	RRF60 =8270CAL5.D				
COMPOUND	RRF4	RRF10	RRF20	RRF45	RRF60	RRF	%RSD OR R^2
4-Chlorophenyl-phenylether	0.764	0.787	0.822	0.925	0.954		
Diethylphthalate	1.243	1.225	1.226	1.281	1.266		
4-Nitroaniline	0.265	0.217	0.216	0.222	0.238		
4,6-Dinitro-2-methylphenol	0.093	0.122	0.142	0.171	0.174		
N-Nitrosodiphenylamine	* 0.482	0.488	0.500	0.509	0.504		*
4-Bromophenyl-phenylether	0.269	0.272	0.283	0.301	0.298		
Hexachlorobenzene	0.316	0.301	0.315	0.344	0.348		
Pentachlorophenol	*	0.155	0.183	0.205	0.210		*
Phenanthrene	1.037	1.007	1.019	1.080	1.038		
Anthracene	1.010	0.996	1.024	1.076	1.057		
Di-n-butylphthalate	0.999	1.047	1.099	1.143	1.113		
Fluoranthene	* 1.217	1.154	1.204	1.211	1.174		*
Pyrene	0.923	0.881	0.878	0.790	0.738		
Butylbenzylphthalate	0.335	0.346	0.355	0.354	0.343		
3,3'-Dichlorobenzidine	0.391	0.416	0.444	0.493	0.488		
Benzo(a)anthracene	1.097	1.035	1.062	1.048	1.002		
Chrysene	1.019	0.957	0.978	0.893	0.827		
Bis(2-ethylhexyl)phthalate	0.565	0.570	0.609	0.633	0.621		
Di-n-octylphthalate	* 0.763	0.818	0.876	0.936	0.916		*
Benzo(b)fluoranthene	1.017	1.083	1.076	1.097	1.071		
Benzo(k)fluoranthene	1.111	1.063	1.084	1.152	1.088		
Benzo(a)pyrene	* 0.977	1.049	1.061	1.089	1.063		*
Indeno(1,2,3-cd)pyrene	1.270	1.261	1.323	1.347	1.307		
Dibenzo(a,h)anthracene	1.084	1.086	1.148	1.191	1.167		
Benzo(g,h,i)perylene	1.025	1.038	1.067	1.022	0.964		
Acetophenone	0.562	0.554	0.578	0.613	0.623		
1,2,4,5-Tetrachlorobenzene	0.701	0.686	0.718	0.771	0.792		
Carbazole	0.869	0.854	0.860	0.846	0.848		
Caprolactam	0.075	0.091	0.101	0.115	0.113		
1,1'-Biphenyl	1.486	1.480	1.538	1.614	1.677		
Atrazine	0.238	0.243	0.257	0.278	0.276		
Benzaldehyde	1.140	1.158	1.188	1.276	1.220		
=====							
2-Fluorophenol(SURR)	1.109	1.085	1.161	1.193	1.186		

SEMI-VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. SAS No: SDG No.: 3505843
 Instrument ID: SMSD03 Calibration Date Begin: 04/23/12 End: 04/23/12
 GC Column: HPMS-5 ID: 0.25 (mm) Calibration Time Begin: 1023 End: 1928
 Min RRF for SPCC(#) = 0.05 Max %RSD for CCC(*) = 30 %

LAB FILE ID:		RRF4 =8270CAL1.D	RRF10 =8270CAL2.D				
RRF20 =8270CAL3.D		RRF45 =8270CAL4.D	RRF60 =8270CAL5.D				
COMPOUND	RRF4	RRF10	RRF20	RRF45	RRF60	$\overline{\text{RRF}}$	%RSD OR R^2
Phenol-d5(SURR)	1.464	1.441	1.516	1.613	1.619		
Nitrobenzene-d5(SURR)	0.527	0.515	0.536	0.553	0.547		
2-Fluorobiphenyl(SURR)	1.504	1.477	1.534	1.626	1.585		
2,4,6-Tribromophenol(SURR)	0.232	0.261	0.273	0.289	0.292		
p-Terphenyl-d14(SURR)	0.904	0.818	0.821	0.757	0.689		

SEMI-VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843Instrument ID: SMSD03 Calibration Date Begin: 04/23/12 End: 04/23/12GC Column: HPMS-5 ID: 0.25 (mm) Calibration Time Begin: 1023 End: 1928Min RRF for SPCC(#) = 0.05Max %RSD for CCC(*) = 30 %

LAB FILE ID:		RRF75 =8270CAL6.D		RRF100 =8270CAL7.D			
COMPOUND	RRF75	RRF100				RRF	%RSD OR R^2
Bis(2-chloroethyl)ether	1.107	1.136				1.10557	2.6
Phenol	* 1.855	1.926				1.75904	7.1 *
2-Chlorophenol	1.175	1.208				1.15668	4.7
2,2'-Oxybis(1-chloropropane)	0.775	0.829				0.77294	4.7
2-Methylphenol	1.096	1.160				1.04767	7.8
Hexachloroethane	0.602	0.615				0.59057	3.7
N-Nitroso-di-n-propylamine	# 1.205	1.250				1.17738	5.4 #
4-Methylphenol	1.604	1.633				1.51461	6.8
Nitrobenzene	0.538	0.540				0.53215	1.4
Isophorone	0.653					0.63498	0.99986
2-Nitrophenol	* 0.203	0.211				0.19693	5.3 *
2,4-Dimethylphenol	0.310	0.313				0.30321	2.5
Bis(2-chloroethoxy)methane	0.456	0.456				0.43959	3.2
2,4-Dichlorophenol	* 0.368	0.382				0.35774	5.9 *
Naphthalene	1.025	1.005				1.02648	2.4
4-Chloroaniline	0.443	0.438				0.43162	2.6
2-Methylnaphthalene	0.774	0.772				0.74689	3.5
Hexachlorobutadiene	* 0.355	0.360				0.34168	4.5 *
4-Chloro-3-methylphenol	* 0.349	0.363				0.34436	4.2 *
Hexachlorocyclopentadiene	# 0.670	0.689				0.63111	8.6 #
2,4,6-Trichlorophenol	* 0.517	0.534				0.49778	7 *
2,4,5-Trichlorophenol	0.486	0.494				0.46015	7.2
2-Chloronaphthalene	1.219	1.207				1.17243	4.7
2-Nitroaniline	0.414	0.421				0.40396	6.2
Acenaphthylene	1.769	1.702				1.73451	3.3
Dimethylphthalate	1.345	1.307				1.347	2.9
2,6-Dinitrotoluene	0.322	0.315				0.30449	7
Acenaphthene	* 1.107	1.113				1.0518	6.3 *
3-Nitroaniline	0.278	0.279				0.27047	4.1
2,4-Dinitrophenol	# 0.215	0.219				0.17918	0.9995 #
Dibenzofuran	1.740	1.714				1.71164	2.6
2,4-Dinitrotoluene	0.456	0.467				0.42698	7.7
4-Nitrophenol	# 0.308	0.310				0.29402	10 #
Fluorene	1.602	1.578				1.48267	8.3

SEMI-VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843Instrument ID: SMSD03 Calibration Date Begin: 04/23/12 End: 04/23/12GC Column: HPMS-5 ID: 0.25 (mm) Calibration Time Begin: 1023 End: 1928Min RRF for SPCC(#) = 0.05Max %RSD for CCC(*) = 30 %

LAB FILE ID:		RRF75 =8270CAL6.D	RRF100 =8270CAL7.D				
COMPOUND	RRF75	RRF100				RRF	%RSD OR R^2
4-Chlorophenyl-phenylether	0.977	0.994				0.8889	10.8
Diethylphthalate	1.242	1.221				1.24358	1.8
4-Nitroaniline	0.237	0.244				0.23414	7.5
4,6-Dinitro-2-methylphenol	0.179	0.187				0.15268	0.99853
N-Nitrosodiphenylamine	* 0.520	0.524				0.50383	3.1 *
4-Bromophenyl-phenylether	0.307	0.316				0.29225	6.2
Hexachlorobenzene	0.357	0.371				0.33604	7.6
Pentachlorophenol	* 0.211	0.222				0.1975	12.5 *
Phenanthrene	1.035	0.998				1.03044	2.6
Anthracene	1.031	0.992				1.02634	3
Di-n-butylphthalate	1.105	1.052				1.07969	4.6
Fluoranthene	* 1.179	1.132				1.18164	2.7 *
Pyrene	0.702	0.653				0.79473	12.9
Butylbenzylphthalate	0.338	0.340				0.34424	2.3
3,3'-Dichlorobenzidine	0.502	0.507				0.46301	10
Benzo(a)anthracene	0.936	0.848				1.00427	8.5
Chrysene	0.782	0.705				0.88032	13
Bis(2-ethylhexyl)phthalate	0.608	0.559				0.59501	5
Di-n-octylphthalate	* 0.898	0.826				0.86193	7.2 *
Benzo(b)fluoranthene	1.070	1.027				1.06307	2.8
Benzo(k)fluoranthene	1.038	0.940				1.06816	6.3
Benzo(a)pyrene	* 1.038	0.993				1.03857	3.9 *
Indeno(1,2,3-cd)pyrene	1.295	1.257				1.29416	2.6
Dibenzo(a,h)anthracene	1.149	1.087				1.13022	3.9
Benzo(g,h,i)perylene	0.927	0.878				0.98879	6.9
Acetophenone	0.628	0.654				0.60177	6.2
1,2,4,5-Tetrachlorobenzene	0.816	0.822				0.75792	7.4
Carbazole	0.857	0.851				0.85498	0.9
Caprolactam	0.114	0.124				0.10464	0.99648
1,1'-Biphenyl	1.670	1.690				1.59358	5.7
Atrazine	0.283	0.300				0.2679	8.5
Benzaldehyde	1.235	1.316				1.21908	5.2
=====							
2-Fluorophenol(SURR)	1.171	1.186				1.15589	3.6

SEMI-VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. SAS No: SDG No.: 3505843
 Instrument ID: SMSD03 Calibration Date Begin: 04/23/12 End: 04/23/12
 GC Column: HPMS-5 ID: 0.25 (mm) Calibration Time Begin: 1023 End: 1928
 Min RRF for SPCC(#) = 0.05 Max %RSD for CCC(*) = 30 %

LAB FILE ID:		RRF75 =8270CAL6.D		RRF100 =8270CAL7.D			
COMPOUND	RRF75	RRF100				RRF	%RSD OR R^2
Phenol-d5(SURR)	1.608	1.585				1.54937	4.9
Nitrobenzene-d5(SURR)	0.549	0.552				0.53982	2.7
2-Fluorobiphenyl(SURR)	1.580	1.529				1.54784	3.3
2,4,6-Tribromophenol(SURR)	0.299	0.311				0.27947	9.5
p-Terphenyl-d14(SURR)	0.671	0.622				0.75461	13.2

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SEMI-VOLATILE ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Instrument ID: SMSD03 CalibrationDate: 04/23/12 Time: 1333
 CCV ID: SSC1072998 Lab File ID: 8270SEC2.D Init. Calib. Date Begin: 04/23/12 End: 04/23/12
 GC Column: HPMS-5 ID: 0.25 (mm)
 Min RRF for SPCC(#) = 0.05 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type
Bis(2-chloroethyl)ether	1.10557	1.19	7.6	AVRG
Phenol *	1.75904	1.767	0.5	AVRG *
2-Chlorophenol	1.15668	1.15	0.6	AVRG
2,2'-Oxybis(1-chloropropane)	0.77294	0.80115	3.6	AVRG
2-Methylphenol	1.04767	1.048	0.0	AVRG
Hexachloroethane	0.59057	0.58903	0.3	AVRG
N-Nitroso-di-n-propylamine #	1.17738	1.244	5.7	AVRG #
4-Methylphenol	1.51461	1.54	1.7	AVRG
Nitrobenzene	0.53215	0.52704	1.0	AVRG
Isophorone	45	56.2	24.9	LINR <-
2-Nitrophenol *	0.19693	0.19603	0.5	AVRG *
2,4-Dimethylphenol	0.30321	0.32693	7.8	AVRG
Bis(2-chloroethoxy)methane	0.43959	0.46869	6.6	AVRG
2,4-Dichlorophenol *	0.35774	0.35146	1.8	AVRG *
Naphthalene	1.02648	1.087	5.9	AVRG
4-Chloroaniline	0.43162	0.45571	5.6	AVRG
2-Methylnaphthalene	0.74689	0.75534	1.1	AVRG
Hexachlorobutadiene *	0.34168	0.37423	9.5	AVRG *
4-Chloro-3-methylphenol *	0.34436	0.34325	0.3	AVRG *
Hexachlorocyclopentadiene #	0.63111	0.66526	5.4	AVRG #
2,4,6-Trichlorophenol *	0.49778	0.51405	3.3	AVRG *
2,4,5-Trichlorophenol	0.46015	0.47926	4.2	AVRG
2-Chloronaphthalene	1.17243	1.21	3.2	AVRG
2-Nitroaniline	0.40396	0.43684	8.1	AVRG
Acenaphthylene	1.73451	1.854	6.9	AVRG
Dimethylphthalate	1.347	1.437	6.7	AVRG
2,6-Dinitrotoluene	0.30449	0.31835	4.6	AVRG
Acenaphthene *	1.0518	1.086	3.3	AVRG *
3-Nitroaniline	0.27047	0.29706	9.8	AVRG
2,4-Dinitrophenol #	45	49.6	10.2	LINR #
Dibenzofuran	1.71164	1.795	4.9	AVRG
2,4-Dinitrotoluene	0.42698	0.44249	3.6	AVRG
4-Nitrophenol #	0.29402	0.31262	6.3	AVRG #
Fluorene	1.48267	1.595	7.6	AVRG
4-Chlorophenyl-phenylether	0.8889	0.93795	5.5	AVRG
Diethylphthalate	1.24358	1.303	4.8	AVRG

7SSC

SEMI-VOLATILE ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Instrument ID: SMSD03 Calibration Date: 04/23/12 Time: 1333
 CCV ID: SSC1072998 Lab File ID: 8270SEC2.D Init. Calib. Date Begin: 04/23/12 End: 04/23/12
 GC Column: HPMS-5 ID: 0.25 (mm)
 Min RRF for SPCC(#) = 0.05 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type
4-Nitroaniline	0.23414	0.25728	9.9	AVRG
4,6-Dinitro-2-methylphenol	45	43.7	2.9	LINR
N-Nitrosodiphenylamine	* 0.50383	0.55994	11.1	AVRG *
4-Bromophenyl-phenylether	0.29225	0.31014	6.1	AVRG
Hexachlorobenzene	0.33604	0.34736	3.4	AVRG
Pentachlorophenol	* 0.1975	0.20129	1.9	AVRG *
Phenanthrene	1.03044	1.101	6.8	AVRG
Anthracene	1.02634	1.104	7.6	AVRG
Di-n-butylphthalate	1.07969	1.167	8.1	AVRG
Fluoranthene	* 1.18164	1.292	9.3	AVRG *
Pyrene	0.79473	0.8457	6.4	AVRG
Butylbenzylphthalate	0.34424	0.38811	12.7	AVRG
Benzo(a)anthracene	1.00427	1.112	10.7	AVRG
Chrysene	0.88032	0.92345	4.9	AVRG
Bis(2-ethylhexyl)phthalate	0.59501	0.69176	16.3	AVRG
Di-n-octylphthalate	* 0.86193	0.98898	14.7	AVRG *
Benzo(b)fluoranthene	1.06307	1.159	9.0	AVRG
Benzo(k)fluoranthene	1.06816	1.158	8.4	AVRG
Benzo(a)pyrene	* 1.03857	1.117	7.6	AVRG *
Indeno(1,2,3-cd)pyrene	1.29416	1.395	7.8	AVRG
Dibenzo(a,h)anthracene	1.13022	1.242	9.9	AVRG
Benzo(g,h,i)perylene	0.98879	1.057	6.9	AVRG
Carbazole	0.85498	0.97304	13.8	AVRG
=====				
2-Fluorophenol(SURR)	1.15589	1.205	4.2	AVRG
Phenol-d5(SURR)	1.54937	1.48	4.5	AVRG
Nitrobenzene-d5(SURR)	0.53982	0.51104	5.3	AVRG
2-Fluorobiphenyl(SURR)	1.54784	1.521	1.7	AVRG
2,4,6-Tribromophenol(SURR)	0.27947	0.28828	3.2	AVRG
p-Terphenyl-d14(SURR)	0.75461	0.72682	3.7	AVRG

Average Used: 6.2

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SEMI-VOLATILE ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Instrument ID: SMSD03 Calibration Date: 04/23/12 Time: 1642
 CCV ID: SSC1072994 Lab File ID: BSSEC.D Init. Calib. Date Begin: 04/23/12 End: 04/23/12
 GC Column: HPMS-5 ID: 0.25 (mm)
 Min RRF for SPCC(#) = 0.05 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type
3,3'-Dichlorobenzidine	0.46301	0.47412	2.4	AVRG
Acetophenone	0.60177	0.55437	7.9	AVRG
Caprolactam	45	38.4	14.7	LINR
1,1'-Biphenyl	1.59358	1.404	11.9	AVRG
Atrazine	0.2679	0.23584	12.0	AVRG
Benzaldehyde	1.21908	1.153	5.4	AVRG

7SSC

SEMI-VOLATILE ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Instrument ID: SMSD03 CalibrationDate: 04/23/12 Time: 2015
 CCV ID: SSC1072993 Lab File ID: AP9SEC2.D Init. Calib. Date Begin: 04/23/12 End: 04/23/12
 GC Column: HPMS-5 ID: 0.25 (mm)
 Min RRF for SPCC(#) = 0.05 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type
Acetophenone	0.60177	0.55655	7.5	AVRG
1,2,4,5-Tetrachlorobenzene	0.75792	0.71394	5.8	AVRG

SEMI-VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Instrument ID: SMSD03 CalibrationDate: 05/03/12 Time: 1115
 CCV ID: CCV1077096 Lab File ID: BSCCV1.D Init. Calib. Date Begin: 04/23/12 End: 04/23/12
 GC Column: HPMS-5 ID: 0.25 (mm)
 Min RRF for SPCC(#) = 0.05 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type
3,3'-Dichlorobenzidine	0.46301	0.503	8.6	AVRG
Acetophenone	0.60177	0.65287	8.5	AVRG
Caprolactam	45	46.7	3.8	LINR
1,1'-Biphenyl	1.59358	1.642	3.0	AVRG
Atrazine	0.2679	0.29106	8.6	AVRG
Benzaldehyde	1.21908	1.315	7.9	AVRG

SEMI-VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Instrument ID: SMSD03 CalibrationDate: 05/03/12 Time: 1139
 CCV ID: CCV1077095 Lab File ID: AP9CCV1.D Init. Calib. Date Begin: 04/23/12 End: 04/23/12
 GC Column: HPMS-5 ID: 0.25 (mm)
 Min RRF for SPCC(#) = 0.05 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type
Acetophenone	0.60177	0.59812	0.6	AVRG
1,2,4,5-Tetrachlorobenzene	0.75792	0.78417	3.5	AVRG

SEMI-VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Instrument ID: SMSD03 CalibrationDate: 05/03/12 Time: 1203
 CCV ID: CCV1077094 Lab File ID: 8270CCV2.D Init. Calib. Date Begin: 04/23/12 End: 04/23/12
 GC Column: HPMS-5 ID: 0.25 (mm)
 Min RRF for SPCC(#) = 0.05 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type
Bis(2-chloroethyl)ether	1.10557	1.132	2.4	AVRG
Phenol	* 1.75904	1.757	0.1	AVRG *
2-Chlorophenol	1.15668	1.173	1.4	AVRG
2,2'-Oxybis(1-chloropropane)	0.77294	0.72721	5.9	AVRG
2-Methylphenol	1.04767	1.054	0.6	AVRG
Hexachloroethane	0.59057	0.62515	5.9	AVRG
N-Nitroso-di-n-propylamine	# 1.17738	1.257	6.8	AVRG #
4-Methylphenol	1.51461	1.615	6.6	AVRG
Nitrobenzene	0.53215	0.5635	5.9	AVRG
Isophorone	45	46.7	3.8	LINR
2-Nitrophenol	* 0.19693	0.2053	4.3	AVRG *
2,4-Dimethylphenol	0.30321	0.30857	1.8	AVRG
Bis(2-chloroethoxy)methane	0.43959	0.44659	1.6	AVRG
2,4-Dichlorophenol	* 0.35774	0.3817	6.7	AVRG *
Naphthalene	1.02648	1.056	2.9	AVRG
4-Chloroaniline	0.43162	0.43059	0.2	AVRG
2-Methylnaphthalene	0.74689	0.78337	4.9	AVRG
Hexachlorobutadiene	* 0.34168	0.38052	11.4	AVRG *
4-Chloro-3-methylphenol	* 0.34436	0.36673	6.5	AVRG *
Hexachlorocyclopentadiene	# 0.63111	0.69833	10.7	AVRG #
2,4,6-Trichlorophenol	* 0.49778	0.4892	1.7	AVRG *
2,4,5-Trichlorophenol	0.46015	0.52974	15.1	AVRG
2-Chloronaphthalene	1.17243	1.208	3.0	AVRG
2-Nitroaniline	0.40396	0.4167	3.2	AVRG
Acenaphthylene	1.73451	1.817	4.8	AVRG
Dimethylphthalate	1.347	1.406	4.4	AVRG
2,6-Dinitrotoluene	0.30449	0.31624	3.9	AVRG
Acenaphthene	* 1.0518	1.076	2.3	AVRG *
3-Nitroaniline	0.27047	0.26562	1.8	AVRG
2,4-Dinitrophenol	# 45	40.8	9.3	LINR #
Dibenzofuran	1.71164	1.82	6.3	AVRG
2,4-Dinitrotoluene	0.42698	0.44032	3.1	AVRG
4-Nitrophenol	# 0.29402	0.33336	13.4	AVRG #
Fluorene	1.48267	1.628	9.8	AVRG
4-Chlorophenyl-phenylether	0.8889	0.98514	10.8	AVRG
Diethylphthalate	1.24358	1.313	5.6	AVRG

SEMI-VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Instrument ID: SMSD03 CalibrationDate: 05/03/12 Time: 1203
 CCV ID: CCV1077094 Lab File ID: 8270CCV2.D Init. Calib. Date Begin: 04/23/12 End: 04/23/12
 GC Column: HPMS-5 ID: 0.25 (mm)
 Min RRF for SPCC(#) = 0.05 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type
4-Nitroaniline	0.23414	0.20966	10.5	AVRG
4,6-Dinitro-2-methylphenol	45	41.8	7.1	LINR
N-Nitrosodiphenylamine	* 0.50383	0.48976	2.8	AVRG *
4-Bromophenyl-phenylether	0.29225	0.29634	1.4	AVRG
Hexachlorobenzene	0.33604	0.33965	1.1	AVRG
Pentachlorophenol	* 0.1975	0.20897	5.8	AVRG *
Phenanthrene	1.03044	1.06	2.9	AVRG
Anthracene	1.02634	1.07	4.3	AVRG
Di-n-butylphthalate	1.07969	1.156	7.1	AVRG
Fluoranthene	* 1.18164	1.252	6.0	AVRG *
Pyrene	0.79473	0.77619	2.3	AVRG
Butylbenzylphthalate	0.34424	0.31928	7.3	AVRG
Benzo(a)anthracene	1.00427	0.98353	2.1	AVRG
Chrysene	0.88032	0.8504	3.4	AVRG
Bis(2-ethylhexyl)phthalate	0.59501	0.6106	2.6	AVRG
Di-n-octylphthalate	* 0.86193	0.92831	7.7	AVRG *
Benzo(b)fluoranthene	1.06307	1.132	6.5	AVRG
Benzo(k)fluoranthene	1.06816	1.118	4.7	AVRG
Benzo(a)pyrene	* 1.03857	1.08	4.0	AVRG *
Indeno(1,2,3-cd)pyrene	1.29416	1.38	6.6	AVRG
Dibenzo(a,h)anthracene	1.13022	1.226	8.5	AVRG
Benzo(g,h,i)perylene	0.98879	1.018	3.0	AVRG
Carbazole	0.85498	0.84416	1.3	AVRG
=====				
2-Fluorophenol(SURR)	1.15589	1.189	2.9	AVRG
Phenol-d5(SURR)	1.54937	1.598	3.1	AVRG
Nitrobenzene-d5(SURR)	0.53982	0.58261	7.9	AVRG
2-Fluorobiphenyl(SURR)	1.54784	1.638	5.8	AVRG
2,4,6-Tribromophenol(SURR)	0.27947	0.30374	8.7	AVRG
p-Terphenyl-d14(SURR)	0.75461	0.73912	2.1	AVRG

SEMI-VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Instrument ID: SMSD03 CalibrationDate: 05/04/12 Time: 0813
 CCV ID: CCV1077399 Lab File ID: 8270CCV1.D Init. Calib. Date Begin: 04/23/12 End: 04/23/12
 GC Column: HPMS-5 ID: 0.25 (mm)
 Min RRF for SPCC(#) = 0.05 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type
Bis(2-chloroethyl)ether	1.10557	1.118	1.1	AVRG
Phenol	* 1.75904	1.75	0.5	AVRG *
2-Chlorophenol	1.15668	1.162	0.5	AVRG
2,2'-Oxybis(1-chloropropane)	0.77294	0.71371	7.7	AVRG
2-Methylphenol	1.04767	1.048	0.0	AVRG
Hexachloroethane	0.59057	0.58888	0.3	AVRG
N-Nitroso-di-n-propylamine	# 1.17738	1.283	9.0	AVRG #
4-Methylphenol	1.51461	1.616	6.7	AVRG
Nitrobenzene	0.53215	0.56009	5.3	AVRG
Isophorone	45	48.3	7.3	LINR
2-Nitrophenol	* 0.19693	0.20621	4.7	AVRG *
2,4-Dimethylphenol	0.30321	0.30425	0.3	AVRG
Bis(2-chloroethoxy)methane	0.43959	0.45247	2.9	AVRG
2,4-Dichlorophenol	* 0.35774	0.38414	7.4	AVRG *
Naphthalene	1.02648	1.065	3.8	AVRG
4-Chloroaniline	0.43162	0.42325	1.9	AVRG
2-Methylnaphthalene	0.74689	0.76906	3.0	AVRG
Hexachlorobutadiene	* 0.34168	0.38092	11.5	AVRG *
4-Chloro-3-methylphenol	* 0.34436	0.37381	8.6	AVRG *
Hexachlorocyclopentadiene	# 0.63111	0.65059	3.1	AVRG #
2,4,6-Trichlorophenol	* 0.49778	0.47819	3.9	AVRG *
2,4,5-Trichlorophenol	0.46015	0.54221	17.8	AVRG
2-Chloronaphthalene	1.17243	1.2	2.4	AVRG
2-Nitroaniline	0.40396	0.4335	7.3	AVRG
Acenaphthylene	1.73451	1.813	4.5	AVRG
Dimethylphthalate	1.347	1.431	6.2	AVRG
2,6-Dinitrotoluene	0.30449	0.32166	5.6	AVRG
Acenaphthene	* 1.0518	1.074	2.1	AVRG *
3-Nitroaniline	0.27047	0.28044	3.7	AVRG
2,4-Dinitrophenol	# 45	46.3	2.9	LINR #
Dibenzofuran	1.71164	1.827	6.7	AVRG
2,4-Dinitrotoluene	0.42698	0.45494	6.5	AVRG
4-Nitrophenol	# 0.29402	0.33237	13.0	AVRG #
Fluorene	1.48267	1.635	10.3	AVRG
4-Chlorophenyl-phenylether	0.8889	0.97031	9.2	AVRG
Diethylphthalate	1.24358	1.34	7.8	AVRG

SEMI-VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Instrument ID: SMSD03 CalibrationDate: 05/04/12 Time: 0813
 CCV ID: CCV1077399 Lab File ID: 8270CCV1.D Init. Calib. Date Begin: 04/23/12 End: 04/23/12
 GC Column: HPMS-5 ID: 0.25 (mm)
 Min RRF for SPCC(#) = 0.05 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type
4-Nitroaniline	0.23414	0.22658	3.2	AVRG
4,6-Dinitro-2-methylphenol	45	45	0.0	LINR
N-Nitrosodiphenylamine	* 0.50383	0.47744	5.2	AVRG *
4-Bromophenyl-phenylether	0.29225	0.29494	0.9	AVRG
Hexachlorobenzene	0.33604	0.3349	0.3	AVRG
Pentachlorophenol	* 0.1975	0.21331	8.0	AVRG *
Phenanthrene	1.03044	1.056	2.5	AVRG
Anthracene	1.02634	1.056	2.9	AVRG
Di-n-butylphthalate	1.07969	1.136	5.2	AVRG
Fluoranthene	* 1.18164	1.237	4.7	AVRG *
Pyrene	0.79473	0.76741	3.4	AVRG
Butylbenzylphthalate	0.34424	0.33328	3.2	AVRG
Benzo(a)anthracene	1.00427	0.97023	3.4	AVRG
Chrysene	0.88032	0.83841	4.8	AVRG
Bis(2-ethylhexyl)phthalate	0.59501	0.62622	5.2	AVRG
Di-n-octylphthalate	* 0.86193	0.933	8.2	AVRG *
Benzo(b)fluoranthene	1.06307	1.163	9.4	AVRG
Benzo(k)fluoranthene	1.06816	1.108	3.7	AVRG
Benzo(a)pyrene	* 1.03857	1.083	4.3	AVRG *
Indeno(1,2,3-cd)pyrene	1.29416	1.334	3.1	AVRG
Dibenzo(a,h)anthracene	1.13022	1.171	3.6	AVRG
Benzo(g,h,i)perylene	0.98879	0.9715	1.7	AVRG
Carbazole	0.85498	0.86183	0.8	AVRG
=====				
2-Fluorophenol(SURR)	1.15589	1.165	0.8	AVRG
Phenol-d5(SURR)	1.54937	1.564	0.9	AVRG
Nitrobenzene-d5(SURR)	0.53982	0.58372	8.1	AVRG
2-Fluorobiphenyl(SURR)	1.54784	1.609	4.0	AVRG
2,4,6-Tribromophenol(SURR)	0.27947	0.30454	9.0	AVRG
p-Terphenyl-d14(SURR)	0.75461	0.74339	1.5	AVRG

SEMI-VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Instrument ID: SMSD03 CalibrationDate: 05/04/12 Time: 0836
 CCV ID: CCV1077401 Lab File ID: BSCCV1.D Init. Calib. Date Begin: 04/23/12 End: 04/23/12
 GC Column: HPMS-5 ID: 0.25 (mm)
 Min RRF for SPCC(#) = 0.05 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type
3,3'-Dichlorobenzidine	0.46301	0.52159	12.7	AVRG
Acetophenone	0.60177	0.63094	4.8	AVRG
Caprolactam	45	44.9	0.2	LINR
1,1'-Biphenyl	1.59358	1.636	2.7	AVRG
Atrazine	0.2679	0.28986	8.2	AVRG
Benzaldehyde	1.21908	1.301	6.7	AVRG

SEMI-VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Instrument ID: SMSD03 CalibrationDate: 05/04/12 Time: 0900
 CCV ID: CCV1077400 Lab File ID: AP9CCV1.D Init. Calib. Date Begin: 04/23/12 End: 04/23/12
 GC Column: HPMS-5 ID: 0.25 (mm)
 Min RRF for SPCC(#) = 0.05 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type
Acetophenone	0.60177	0.5728	4.8	AVRG
1,2,4,5-Tetrachlorobenzene	0.75792	0.76559	1.0	AVRG

8082 PCB Organics

**CASE NARRATIVE
POLYCHLORINATED BIPHENYLS (PCB) SEMIVOLATILE ORGANIC**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

EPA SW846 8082 for Aroclor analysis

IV. PREPARATION

Soil samples were prepared by SW846 EPA 3550 for 8082 semi-volatile analysis.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

Please note CCV1074115 was below criteria at 20.3% for one peak used to quantify Aroclor-1016 on column STX-CLP1, however the total for this Aroclor passed criteria at 9.8%, meeting QC requirements.

Please note CCV1074823 was below criteria at 25.1% for one peak used to quantify Aroclor-1016 and 20.6% for one peak used to quantify Aroclor-1260 on column STX-CLP1, however the total for these Aroclors passed criteria, meeting QC requirements.

B. Blanks:

All acceptance criteria were met.

C. Surrogates:

All acceptance criteria were met.

D. Spikes:

PCB 1016 and PCB 1260 were used as the spiking solution for all QC spikes.

1. Laboratory Control Spikes (LCS)

All acceptance criteria were met

2. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

**CASE NARRATIVE
POLYCHLORINATED BIPHENYLS (PCB) SEMIVOLATILE ORGANIC**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

No spikes requested by client.

E. Internal Standards:

This method does not require the use of internal standards.

F. Samples:

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.



SIGNED:

DATE: 05/08/2012

CASE NARRATIVE

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

MANUAL INTEGRATION SUMMARY

The following analytes were manually integrated by the chemist.

Sample: EPAFMC-SD-12 Analyte: Decachlorobiphenyl

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074115 Analyte: 1016-1

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074115 Analyte: 1016-2

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074115 Analyte: 1016-3

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074115 Analyte: 1016-4

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074115 Analyte: 1016-5

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074115 Analyte: 1260-1

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074115 Analyte: 1260-2

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074115 Analyte: 1260-3

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074115 Analyte: 1260-4

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074115 Analyte: 1260-5

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074115 Analyte: Decachlorobiphenyl(SURR)

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074799 Analyte: 1016-1

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074799 Analyte: 1016-2

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074799 Analyte: 1016-3

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074799 Analyte: 1016-4

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074799 Analyte: 1016-5

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074799 Analyte: 1260-1

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074799 Analyte: 1260-2

Reason: Baseline integration, needs re-enforced due to interference on target peak

CASE NARRATIVE

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

Calibration Sample: CCV1074799 Analyte: 1260-3

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074799 Analyte: 1260-4

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074799 Analyte: 1260-5

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074799 Analyte: Decachlorobiphenyl(SURR)

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074801 Analyte: 1016-1

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074801 Analyte: 1016-2

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074801 Analyte: 1016-3

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074801 Analyte: 1016-4

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074801 Analyte: 1016-5

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074801 Analyte: 1260-1

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074801 Analyte: 1260-2

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074801 Analyte: 1260-3

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074801 Analyte: 1260-4

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074801 Analyte: 1260-5

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074801 Analyte: Decachlorobiphenyl(SURR)

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074823 Analyte: 1016-1

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074823 Analyte: 1016-2

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074823 Analyte: 1016-3

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074823 Analyte: 1016-4

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074823 Analyte: 1016-5

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074823 Analyte: 1260-1

Reason: Baseline integration, needs re-enforced due to interference on target peak

CASE NARRATIVE

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

Calibration Sample: CCV1074823 Analyte: 1260-2

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074823 Analyte: 1260-3

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074823 Analyte: 1260-4

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074823 Analyte: 1260-5

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074825 Analyte: 1016-1

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074825 Analyte: 1016-2

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074825 Analyte: 1016-3

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074825 Analyte: 1016-4

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074825 Analyte: 1016-5

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074825 Analyte: 1260-1

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074825 Analyte: 1260-2

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074825 Analyte: 1260-3

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074825 Analyte: 1260-4

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074825 Analyte: 1260-5

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: CCV1074825 Analyte: Decachlorobiphenyl(SURR)

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: SSC1061633 Analyte: 1016-1

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: SSC1061633 Analyte: 1016-2

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: SSC1061633 Analyte: 1016-3

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: SSC1061633 Analyte: 1016-4

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: SSC1061633 Analyte: 1016-5

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: SSC1061633 Analyte: 1260-1

Reason: Baseline integration, needs re-enforced due to interference on target peak

CASE NARRATIVE

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

Calibration Sample: SSC1061633 Analyte: 1260-2

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: SSC1061633 Analyte: 1260-3

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: SSC1061633 Analyte: 1260-4

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061637 Analyte: 1232-1

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061637 Analyte: 1232-2

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061637 Analyte: 1232-3

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061637 Analyte: 1232-4

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061637 Analyte: 1232-5

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061638 Analyte: 1242-1

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061638 Analyte: 1242-2

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061638 Analyte: 1242-3

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061638 Analyte: 1242-4

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061638 Analyte: 1242-5

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061639 Analyte: 1248-1

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061639 Analyte: 1248-2

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061639 Analyte: 1248-3

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061639 Analyte: 1248-4

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061639 Analyte: 1248-5

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061640 Analyte: 1221-1

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061640 Analyte: 1221-2

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061640 Analyte: 1221-3

Reason: Baseline integration, needs re-enforced due to interference on target peak

CASE NARRATIVE

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

Calibration Sample: STD1061640 Analyte: 1254-1

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061640 Analyte: 1254-2

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061640 Analyte: 1254-3

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061640 Analyte: 1254-4

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061640 Analyte: 1254-5

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061641 Analyte: 1016-1

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061641 Analyte: 1016-2

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061641 Analyte: 1016-3

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061641 Analyte: 1016-4

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061641 Analyte: 1016-5

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061641 Analyte: 1260-1

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061641 Analyte: 1260-2

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061641 Analyte: 1260-3

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061641 Analyte: 1260-4

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061641 Analyte: 1260-5

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061642 Analyte: 1016-1

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061642 Analyte: 1016-2

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061642 Analyte: 1016-3

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061642 Analyte: 1016-4

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061642 Analyte: 1016-5

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061642 Analyte: 1260-1

Reason: Baseline integration, needs re-enforced due to interference on target peak

CASE NARRATIVE

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

Calibration Sample: STD1061642 Analyte: 1260-2

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061642 Analyte: 1260-3

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061642 Analyte: 1260-4

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061642 Analyte: 1260-5

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061643 Analyte: 1016-1

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061643 Analyte: 1016-2

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061643 Analyte: 1016-3

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061643 Analyte: 1016-4

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061643 Analyte: 1016-5

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061643 Analyte: 1260-1

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061643 Analyte: 1260-2

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061643 Analyte: 1260-3

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061643 Analyte: 1260-4

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061643 Analyte: 1260-5

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061644 Analyte: 1016-1

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061644 Analyte: 1016-2

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061644 Analyte: 1016-3

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061644 Analyte: 1016-4

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061644 Analyte: 1016-5

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061644 Analyte: 1260-1

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061644 Analyte: 1260-2

Reason: Baseline integration, needs re-enforced due to interference on target peak

CASE NARRATIVE

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

Calibration Sample: STD1061644 Analyte: 1260-3

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061644 Analyte: 1260-4

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061644 Analyte: 1260-5

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061644 Analyte: Decachlorobiphenyl(SURR)

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061645 Analyte: 1016-1

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061645 Analyte: 1016-2

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061645 Analyte: 1016-3

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061645 Analyte: 1016-4

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061645 Analyte: 1016-5

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061645 Analyte: 1260-1

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061645 Analyte: 1260-2

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061645 Analyte: 1260-3

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061645 Analyte: 1260-4

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061645 Analyte: 1260-5

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061646 Analyte: 1016-1

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061646 Analyte: 1016-2

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061646 Analyte: 1016-3

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061646 Analyte: 1016-4

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061646 Analyte: 1016-5

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061646 Analyte: 1260-1

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061646 Analyte: 1260-2

Reason: Baseline integration, needs re-enforced due to interference on target peak

CASE NARRATIVE

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

Calibration Sample: STD1061646 Analyte: 1260-3

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061646 Analyte: 1260-4

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061646 Analyte: 1260-5

Reason: Baseline integration, needs re-enforced due to interference on target peak

Calibration Sample: STD1061646 Analyte: Decachlorobiphenyl(SURR)

Reason: Baseline integration, needs re-enforced due to interference on target peak

These manual integrations have been reviewed and meet all criteria in accordance with Spectrum Analytical Inc.'s SOP regarding manual integration.

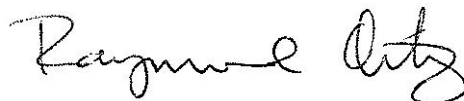
Signature:



Name: Christelle Abadia **Title:** Chemist

CHEMIST:

DATE: 05/03/2012



SECTION LEADER:

DATE: 05/08/2012

PCB ORGANIC CROSS REFERENCE TABLE

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No. SAS No: SDG No.: 3505843

Method: 8082

EPA Sample No	Lab Sample ID
<u>EPAFMC-SD-08</u>	<u>350584304</u>
<u>EPAFMC-SD-12</u>	<u>350584308</u>
<u>EPAFMC-SD-16</u>	<u>350584312</u>

8082 Sample Data

PCB ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-08

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584304 Lab File ID: 843-4R.D

Sample wt/vol: 33.33 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 10 Date Extracted: 04/27/12

Level:(low/med) LOW Date Analyzed: 04/30/12 Time: 1116

PercentSolids: 97.1 decanted : _____ Dilution Factor: 1

Extraction: SONC Station ID: EPAFMC07 Method: 8082

GPC Cleanup : (Y/N) N pH: _____

Column(1): STX-CLP1 ID: 0.32 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	13	U	13	30
11096-82-5	Aroclor-1260	21	J	7.1	30
11104-28-2	Aroclor-1221	12	U	12	30
11141-16-5	Aroclor-1232	20	U	20	30
53469-21-9	Aroclor-1242	11	U	11	30
12672-29-6	Aroclor-1248	11	U	11	30
11097-69-1	Aroclor-1254	9.7	U	9.7	30

PCB ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-12

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584308 Lab File ID: 843-8R.D

Sample wt/vol: 33.5 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 10 Date Extracted: 04/27/12

Level:(low/med) LOW Date Analyzed: 04/30/12 Time: 1131

PercentSolids: 84.4 decanted : _____ Dilution Factor: 1

Extraction: SONC Station ID: EPAFMC11 Method: 8082

GPC Cleanup : (Y/N) N pH: _____

Column(1): STX-CLP1 ID: 0.32 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	15	U	15	35
11096-82-5	Aroclor-1260	8.2	U	8.2	35
11104-28-2	Aroclor-1221	14	U	14	35
11141-16-5	Aroclor-1232	23	U	23	35
53469-21-9	Aroclor-1242	13	U	13	35
12672-29-6	Aroclor-1248	13	U	13	35
11097-69-1	Aroclor-1254	11	U	11	35

PCB ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-16

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584312 Lab File ID: 843-12.D

Sample wt/vol: 33.03 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 10 Date Extracted: 04/27/12

Level:(low/med) LOW Date Analyzed: 04/27/12 Time: 2251

PercentSolids: 80.1 decanted : _____ Dilution Factor: 1

Extraction: SONC Station ID: EPAFMC11 Method: 8082

GPC Cleanup : (Y/N) N pH: _____

Column(1): STX-CLP1 ID: 0.32 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	16	U	16	37
11096-82-5	Aroclor-1260	8.7	U	8.7	37
11104-28-2	Aroclor-1221	15	U	15	37
11141-16-5	Aroclor-1232	25	U	25	37
53469-21-9	Aroclor-1242	14	U	14	37
12672-29-6	Aroclor-1248	14	U	14	37
11097-69-1	Aroclor-1254	12	U	12	37

8082 QC Summary

PCB ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
127811MB

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 127811MB Lab File ID: 9229MB.D

Sample wt/vol: 33.15 Units: G Date Received: 04/27/12

Concentrated Extract Volume: 10 Date Extracted: 04/27/12

Level:(low/med) LOW Date Analyzed: 04/27/12 Time: 1919

PercentSolids: 100 decanted : (_____ Dilution Factor: 1

Extraction: SONC Station ID: _____ Method: 8082

GPC Cleanup : (Y/N) N pH: _____

Column(1): STX-CLP1 ID: 0.32 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	13	U	13	30
11096-82-5	Aroclor-1260	7	U	7	30
11104-28-2	Aroclor-1221	12	U	12	30
11141-16-5	Aroclor-1232	20	U	20	30
53469-21-9	Aroclor-1242	11	U	11	30
12672-29-6	Aroclor-1248	11	U	11	30
11097-69-1	Aroclor-1254	9.4	U	9.4	30

PCB ORGANIC METHOD BLANK SUMMARY

Lab Name: Spectrum Analytical, Inc Contract: OTIE- Five Mile Creek / Site 1392 EPA Sample No. 127811MB

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Lab File ID: 9229MB.D Lab Sample ID: 127811MB

Instrument ID: SECD04 Date Extracted: 04/27/12

Matrix: SOIL Date Analyzed: 04/27/12

Level:(low/med) LOW Time Analyzed: 1919

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	127812LCS	127812LCS	9229LCS.D	04/27/12	1934
2	EPAFMC-SD-16	350584312	843-12.D	04/27/12	2251
3	EPAFMC-SD-08	350584304	843-4R.D	04/30/12	1116
4	EPAFMC-SD-12	350584308	843-8R.D	04/30/12	1131

COMMENTS:

2A

SOIL PCB ORGANIC SURROGATE RECOVERY

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1

Lab Code : PEL Case No. SAS No: SDG NO.: 3505843

Column(1): STX-CLP1 ID: 0.32 (mm)

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
127811MB	83.8						0
127812LCS	81.7						0
EPAFMC-SD-08	104.0						0
EPAFMC-SD-12	79.9						0
EPAFMC-SD-16	67.2						0

Control Limits

S1 = Decachlorobiphenyl

33 - 140

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

Control limit source: (lab/method) METHOD

Form II

110512.1915

PCB ORGANIC ANALYTICAL SEQUENCE

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 GC Column: STX-CLP1 ID: 0.32 (mm) Init. Calib. Date: 03/19/12
 Instrument ID: SECD04

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

MIDCAL SURROGATE RT FROM INITIAL CALIBRATION						
S1 :			S2 :			
CLIENT SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
1	STD1061637	44134	1232CAL3.D	03/19/12	1019	
2	STD1061638	44821	1242CAL3.D	03/19/12	1034	
3	STD1061639	44340	1248CAL3.D	03/19/12	1049	
4	STD1061640	44135	2154CAL3.D	03/19/12	1104	
5	STD1061641	44128	ACAL1.D	03/19/12	1119	8.26
6	STD1061642	44127	ACAL2.D	03/19/12	1134	8.26
7	STD1061643	45333	ACAL3.D	03/19/12	1149	8.26
8	STD1061644	44125	ACAL4.D	03/19/12	1205	8.26
9	STD1061645	44124	ACAL5.D	03/19/12	1220	8.26
10	STD1061646	44123	ACAL6.D	03/19/12	1235	8.26
11	SSC1061633	43164	ASEC.D	03/19/12	1250	8.26
12	ZZZZZZ	ZZZZZZ	ZZZZZZ	04/27/12	0925	
13	CCV1074115	45333	ACCV2.D	04/27/12	1149	8.24
14	127811MB	127811MB	9229MB.D	04/27/12	1919	8.26
15	127812LCS	127812LCS	9229LCS.D	04/27/12	1934	8.25
16	ZZZZZZ	ZZZZZZ	ZZZZZZ	04/27/12	1950	
17	ZZZZZZ	ZZZZZZ	ZZZZZZ	04/27/12	2005	
18	ZZZZZZ	ZZZZZZ	ZZZZZZ	04/27/12	2020	
19	CCV1074799	45333	ACCV3.D	04/27/12	2150	8.24
20	EPAFMC-SD-16	350584312	843-12.D	04/27/12	2251	8.24
21	CCV1074801	45333	ACCV4.D	04/27/12	2321	8.24
22	CCV1074823	45865	ACCV1R.D	04/30/12	0934	8.25
23	EPAFMC-SD-08	350584304	843-4R.D	04/30/12	1116	8.24
24	EPAFMC-SD-12	350584308	843-8R.D	04/30/12	1131	8.24
25	CCV1074825	45333	ACCV2.D	04/30/12	1201	8.24

QC LIMITS

S1 = Decachlorobiphenyl (+/- 0.2 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits

PCB ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1

127812LCS

Lab Code : PEL Case No. SAS No: SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	LCS CONCENTRATION ug/Kg	LCS % REC #	LCS % RPD	QC LIMITS	
					RPD	REC.
Aroclor-1016	295	207	70.2			43 - 137
Aroclor-1260	295	203	68.8			48 - 154

Spike Recovery: 0 out of 2 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

8082 Standards Data

PCB ORGANIC INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. SAS No: SDG No.: 3505843
 Instrument ID: SECD04 Calibration Date Begin: 03/19/12 End: 03/19/12
 GC Column: STX-CLP1 ID: 0.32 (mm) Calibration Time Begin: 1019 End: 1235

LAB FILE ID:		RRF0.006 =ACAL1.D	RRF0.02 =ACAL2.D		
RRF0.1 =1232CAL3.D		RRF0.2 =ACAL4.D	RRF0.4 =ACAL5.D		
COMPOUND	RRF0.006	RRF0.02	RRF0.1	RRF0.2	RRF0.4
1016-1	1224166.667	1166700	987160	910120	907685
1016-2	1254666.667	1348250	1205110	1109145	1131357.5
1016-3	3940833.333	3844450	3533550	3259960	3389112.5
1016-4	2018666.667	1776700	1627280	1478865	1537230
1016-5	1144666.667	1048900	939700	870990	916030
1260-1	15089500	13994650	14102970	13483805	15022787.5
1260-2	10532500	9447250	9201690	8814305	9759912.5
1260-3	8237666.667	7659850	7389720	7148080	7787600
1260-4	24515833.33	22428700	22210220	21458870	24006730
1260-5	5195666.667	4838200	4698090	4542020	4795945
1221-1			241094.118		
1221-2			159041.176		
1221-3			777670.588		
1232-1			267110		
1232-2			1052100		
1232-3			578580		
1232-4			1538490		
1232-5			692920		
1242-1			687200		
1242-2			857940		
1242-3			2476670		
1242-4			1113750		
1242-5			1115990		
1248-1			1660440		
1248-2			1325740		
1248-3			1261350		
1248-4			2591200		
1248-5			5060360		
1254-1			3140220		
1254-2			7480220		
1254-3			3353660		
1254-4			8511590		
1254-5			8185030		

PCB ORGANIC INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. SAS No: SDG No.: 3505843
 Instrument ID: SECD04 Calibration Date Begin: 03/19/12 End: 03/19/12
 GC Column: STX-CLP1 ID: 0.32 (mm) Calibration Time Begin: 1019 End: 1235

LAB FILE ID:	RRF0.006 =ACAL1.D	RRF0.02 =ACAL2.D			
RRF0.1 =1232CAL3.D	RRF0.2 =ACAL4.D	RRF0.4 =ACAL5.D			
COMPOUND	RRF0.006	RRF0.02	RRF0.1	RRF0.2	RRF0.4
=====					
Decachlorobiphenyl(SURR)	30029666.67	27913400	25975880	24462030	25866940

PCB ORGANIC INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. SAS No: SDG No.: 3505843
 Instrument ID: SECD04 Calibration Date Begin: 03/19/12 End: 03/19/12
 GC Column: STX-CLP1 ID: 0.32 (mm) Calibration Time Begin: 1019 End: 1235

LAB FILE ID: RRF0.5 =ACAL6.D					
COMPOUND	RRF0.5				
1016-1	957742				
1016-2	1180378				
1016-3	3559386				
1016-4	1597720				
1016-5	941104				
1260-1	16179796				
1260-2	10433498				
1260-3	8444048				
1260-4	25643460				
1260-5	4937962				
1221-1					
1221-2					
1221-3					
1232-1					
1232-2					
1232-3					
1232-4					
1232-5					
1242-1					
1242-2					
1242-3					
1242-4					
1242-5					
1248-1					
1248-2					
1248-3					
1248-4					
1248-5					
1254-1					
1254-2					
1254-3					
1254-4					
1254-5					

PCB ORGANIC INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. SAS No: SDG No.: 3505843
 Instrument ID: SECD04 Calibration Date Begin: 03/19/12 End: 03/19/12
 GC Column: STX-CLP1 ID: 0.32 (mm) Calibration Time Begin: 1019 End: 1235

LAB FILE ID: RRF0.5 =ACAL6.D					
COMPOUND	RRF0.5				
=====					
Decachlorobiphenyl(SURR)	27035496				

PCB ORGANIC INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. SAS No: SDG No.: 3505843
 Instrument ID: SECD04 Calibration Date Begin: 03/19/12 End: 03/19/12
 GC Column: STX-CLP1 ID: 0.32 (mm) Calibration Time Begin: 1019 End: 1235

COMPOUND	CURVE	COEFFICIENTS		%RSD OR R^2
		AO	A1	
1016-1	AVRG		1025595.611	13.3
1016-2	AVRG		1204817.861	7.3
1016-3	AVRG		3587881.972	7.3
1016-4	AVRG		1672743.611	11.8
1016-5	AVRG		976898.4444	10.3
1260-1	AVRG		14645584.75	6.7
1260-2	AVRG		9698192.583	7
1260-3	AVRG		7777827.444	6.3
1260-4	AVRG		23377302.22	6.8
1260-5	AVRG		4834647.278	4.6
1221-1	AVRG		241094.1176	0
1221-2	AVRG		159041.1765	0
1221-3	AVRG		777670.5882	0
1232-1	AVRG		267110	0
1232-2	AVRG		1052100	0
1232-3	AVRG		578580	0
1232-4	AVRG		1538490	0
1232-5	AVRG		692920	0
1242-1	AVRG		687200	0
1242-2	AVRG		857940	0
1242-3	AVRG		2476670	0
1242-4	AVRG		1113750	0
1242-5	AVRG		1115990	0
1248-1	AVRG		1660440	0
1248-2	AVRG		1325740	0
1248-3	AVRG		1261350	0
1248-4	AVRG		2591200	0
1248-5	AVRG		5060360	0
1254-1	AVRG		3140220	0
1254-2	AVRG		7480220	0
1254-3	AVRG		3353660	0
1254-4	AVRG		8511590	0

PCB ORGANIC INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. SAS No: SDG No.: 3505843
 Instrument ID: SECD04 Calibration Date Begin: 03/19/12 End: 03/19/12
 GC Column: STX-CLP1 ID: 0.32 (mm) Calibration Time Begin: 1019 End: 1235

COMPOUND	CURVE	COEFFICIENTS		%RSD OR R^2
		AO	A1	
1254-5	AVRG		8185030	0
=====				
Decachlorobiphenyl(SURR)	AVRG		26880568.78	7.2

PCB ORGANIC INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. SAS No: SDG No.: 3505843
 Instrument ID: SECD04 Calibration Date Begin: 03/19/12 End: 03/19/12
 GC Column: STX-CLP1 ID: 0.32 (mm) Calibration Time Begin: 1019 End: 1235
 Min RRF for SPCC(#) = 0 Max %RSD for CCC(*) = 0 %

LAB FILE ID:		RT1: ACAL1.D		RT2: ACAL2.D			
RT3: 1232CAL3.D		RT4: ACAL4.D		RT5: ACAL5.D			
COMPOUND	RT1	RT2	RT3	RT4	RT5	MIDCAL RT	RT WINDOW FROM TO
1016-1	3.760	3.759	3.759	3.763	3.754		
1016-2	4.173	4.178	4.178	4.180	4.174		
1016-3	4.660	4.662	4.661	4.662	4.657		
1016-4	4.786	4.785	4.787	4.788	4.783		
1016-5	5.226	5.224	5.224	5.226	5.222		
1260-1	6.286	6.286	6.287	6.288	6.286		
1260-2	6.561	6.561	6.562	6.563	6.561		
1260-3	6.745	6.745	6.746	6.746	6.744		
1260-4	6.972	6.972	6.972	6.973	6.972		
1260-5	7.751	7.753	7.752	7.753	7.751		
1221-1			3.507				
1221-2			3.699				
1221-3			3.754				
1232-1			3.505				
1232-2			3.754				
1232-3			4.175				
1232-4			4.659				
1232-5			4.784				
1242-1			3.758				
1242-2			4.177				
1242-3			4.660				
1242-4			4.785				
1242-5			4.845				
1248-1			4.658				
1248-2			4.946				
1248-3			5.223				
1248-4			5.429				
1248-5			5.494				
1254-1			5.495				
1254-2			5.659				
1254-3			5.876				
1254-4			5.966				
1254-5			6.166				
=====							
Decachlorobiphenyl(SURR)	8.257	8.257	8.258	8.259	8.257		

PCB ORGANIC INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. SAS No: SDG No.: 3505843
 Instrument ID: SECD04 Calibration Date Begin: 03/19/12 End: 03/19/12
 GC Column: STX-CLP1 ID: 0.32 (mm) Calibration Time Begin: 1019 End: 1235
 Min RRF for SPCC(#) = 0 Max %RSD for CCC(*) = 0 %

LAB FILE ID:		RT6: ACAL6.D						
COMPOUND	RT6					MIDCAL RT	RT WINDOW	
							FROM	TO
1016-1	3.754					3.759	3.559	3.959
1016-2	4.174					4.178	3.978	4.378
1016-3	4.657					4.661	4.461	4.861
1016-4	4.783					4.787	4.587	4.987
1016-5	5.222					5.224	5.024	5.424
1260-1	6.286					6.287	6.087	6.487
1260-2	6.561					6.562	6.362	6.762
1260-3	6.744					6.746	6.546	6.946
1260-4	6.972					6.972	6.772	7.172
1260-5	7.751					7.752	7.552	7.952
1221-1						3.507	3.307	3.707
1221-2						3.699	3.499	3.899
1221-3						3.754	3.554	3.954
1232-1						3.505	3.305	3.705
1232-2						3.754	3.554	3.954
1232-3						4.175	3.975	4.375
1232-4						4.659	4.459	4.859
1232-5						4.784	4.584	4.984
1242-1						3.758	3.558	3.958
1242-2						4.177	3.977	4.377
1242-3						4.660	4.460	4.860
1242-4						4.785	4.585	4.985
1242-5						4.845	4.645	5.045
1248-1						4.658	4.458	4.858
1248-2						4.946	4.746	5.146
1248-3						5.223	5.023	5.423
1248-4						5.429	5.229	5.629
1248-5						5.494	5.294	5.694
1254-1						5.495	5.295	5.695
1254-2						5.659	5.459	5.859
1254-3						5.876	5.676	6.076
1254-4						5.966	5.766	6.166
1254-5						6.166	5.966	6.366
=====								
Decachlorobiphenyl(SURR)	8.257					8.258	8.058	8.458

7SSC

PCB ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Instrument ID: SECD04 CalibrationDate: 03/19/12 Time: 1250
 CCV ID: SSC1061633 Lab File ID: ASEC.D Init. Calib. Date Begin: 03/19/12 End: 03/19/12
 GC Column: STX-CLP1 ID: 0.32 (mm)

COMPOUND	Expected	Found	%D / %Drift	Curve Type
1016-1	1025595.6	868730	15.3	AVRG
1016-2	1204817.9	1221880	1.4	AVRG
1016-3	3587882	3697290	3.0	AVRG
1016-4	1672743.6	1569850	6.2	AVRG
1016-5	976898.45	927060	5.1	AVRG
1260-1	14645585	14219810	2.9	AVRG
1260-2	9698192.6	9245190	4.7	AVRG
1260-3	7777827.5	7365300	5.3	AVRG
1260-4	23377302	22272670	4.7	AVRG
1260-5	4834647.3	4776160	1.2	AVRG
=====				
Decachlorobiphenyl(SURR)	26880569	26630920	0.9	AVRG

PCB ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Instrument ID: SECD04 CalibrationDate: 04/27/12 Time: 1149
 CCV ID: CCV1074115 Lab File ID: ACCV2.D Init. Calib. Date Begin: 03/19/12 End: 03/19/12
 GC Column: STX-CLP1 ID: 0.32 (mm)

COMPOUND	Expected	Found	%D / %Drift	Curve Type
1016-1	1025595.6	924550	9.9	AVRG
1016-2	1204817.9	1205000	0.0	AVRG
1016-3	3587882	3066420	14.5	AVRG
1016-4	1672743.6	1538400	8.0	AVRG
1016-5	976898.45	778780	20.3	AVRG
1260-1	14645585	11923900	18.6	AVRG
1260-2	9698192.6	8600330	11.3	AVRG
1260-3	7777827.5	6644520	14.6	AVRG
1260-4	23377302	21557190	7.8	AVRG
1260-5	4834647.3	4836720	0.0	AVRG
=====				
Decachlorobiphenyl(SURR)	26880569	25996960	3.3	AVRG

Average Used: 9.8

PCB ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Instrument ID: SECD04 CalibrationDate: 04/27/12 Time: 2150
 CCV ID: CCV1074799 Lab File ID: ACCV3.D Init. Calib. Date Begin: 03/19/12 End: 03/19/12
 GC Column: STX-CLP1 ID: 0.32 (mm)

COMPOUND	Expected	Found	%D / %Drift	Curve Type
1016-1	1025595.6	977310	4.7	AVRG
1016-2	1204817.9	1233070	2.3	AVRG
1016-3	3587882	3282300	8.5	AVRG
1016-4	1672743.6	1584710	5.3	AVRG
1016-5	976898.45	813860	16.7	AVRG
1260-1	14645585	12586160	14.1	AVRG
1260-2	9698192.6	9038010	6.8	AVRG
1260-3	7777827.5	6794940	12.6	AVRG
1260-4	23377302	21880270	6.4	AVRG
1260-5	4834647.3	4650270	3.8	AVRG
=====				
Decachlorobiphenyl(SURR)	26880569	24452500	9.0	AVRG

PCB ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Instrument ID: SECD04 CalibrationDate: 04/27/12 Time: 2321
 CCV ID: CCV1074801 Lab File ID: ACCV4.D Init. Calib. Date Begin: 03/19/12 End: 03/19/12
 GC Column: STX-CLP1 ID: 0.32 (mm)

COMPOUND	Expected	Found	%D / %Drift	Curve Type
1016-1	1025595.6	983220	4.1	AVRG
1016-2	1204817.9	1267890	5.2	AVRG
1016-3	3587882	3238580	9.7	AVRG
1016-4	1672743.6	1593840	4.7	AVRG
1016-5	976898.45	815920	16.5	AVRG
1260-1	14645585	12549220	14.3	AVRG
1260-2	9698192.6	9032840	6.9	AVRG
1260-3	7777827.5	6962350	10.5	AVRG
1260-4	23377302	22371000	4.3	AVRG
1260-5	4834647.3	4670460	3.4	AVRG
=====				
Decachlorobiphenyl(SURR)	26880569	25640100	4.6	AVRG

PCB ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Instrument ID: SECD04 CalibrationDate: 04/30/12 Time: 0934
 CCV ID: CCV1074823 Lab File ID: ACCV1R.D Init. Calib. Date Begin: 03/19/12 End: 03/19/12
 GC Column: STX-CLP1 ID: 0.32 (mm)

COMPOUND	Expected	Found	%D / %Drift	Curve Type
1016-1	1025595.6	909830	11.3	AVRG
1016-2	1204817.9	1209840	0.4	AVRG
1016-3	3587882	3025490	15.7	AVRG
1016-4	1672743.6	1469830	12.1	AVRG
1016-5	976898.45	731410	25.1	AVRG
1260-1	14645585	11627280	20.6	AVRG
1260-2	9698192.6	8437350	13.0	AVRG
1260-3	7777827.5	6582640	15.4	AVRG
1260-4	23377302	21024840	10.1	AVRG
1260-5	4834647.3	5066160	4.8	AVRG
=====				
Decachlorobiphenyl(SURR)	26880569	23855160	11.3	AVRG

Average Used: 12.7

PCB ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Instrument ID: SECD04 CalibrationDate: 04/30/12 Time: 1201
 CCV ID: CCV1074825 Lab File ID: ACCV2.D Init. Calib. Date Begin: 03/19/12 End: 03/19/12
 GC Column: STX-CLP1 ID: 0.32 (mm)

COMPOUND	Expected	Found	%D / %Drift	Curve Type
1016-1	1025595.6	955080	6.9	AVRG
1016-2	1204817.9	1257830	4.4	AVRG
1016-3	3587882	3319680	7.5	AVRG
1016-4	1672743.6	1629610	2.6	AVRG
1016-5	976898.45	824970	15.6	AVRG
1260-1	14645585	12817550	12.5	AVRG
1260-2	9698192.6	9049590	6.7	AVRG
1260-3	7777827.5	6888850	11.4	AVRG
1260-4	23377302	22213050	5.0	AVRG
1260-5	4834647.3	4836850	0.0	AVRG
=====				
Decachlorobiphenyl(SURR)	26880569	25325260	5.8	AVRG

Inorganics

Inorganic Data Qualifiers

C (Concentration) Qualifier - Entries and their meanings are:

- J** The reported value obtained was less than the RL but greater than or equal to the MDL.
- E** The reported value obtained was over calibration or linear range.
- U** The reported value obtained was less than the MDL or was not detected.

Q Qualifier - Entries and their meanings are:

- U** The reported value is estimated because of interference. An explanatory comment must be included under "Comments" on the Cover Page if the problem applies to all samples in this data package or on the individual FORM 1 if it is an isolated problem.
- M** Duplicate injection precision was not met (two analyses of the same sample did not agree).
- N** Spiked sample recovery not within control limits.
- E** Serial Dilution percent difference not within control limits.
- S** The reported value was determined by the Method of Standard Additions (MSA).
- W** Post-digestion spike for Furnace AA analysis is out of control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
- *** Duplicate analysis not within control limits.
- +** Correlation coefficient for the MSA is less than 0.995.
- X** The data is flagged as rejected by analyst utilizing analytical judgement.

Entering "S", "W", or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field.

M (Method) Qualifier - Enter one of the following:

- P** ICP
- A** Flame AA
- F** Furnace AA
- CV** Manual Cold Vapor AA
- TC** Total Organic Carbon
- AS** Semi-Automated Spectrophotometric
- CA** Midi-Distillation Spectrophotometric
- T** Titrimetric
- C** Manual Spectrophotometric
- GR** Gravimetric
- NR** Analyte was not required by your lab

Inorganic Sample ID Qualifiers

The qualifiers that may be appended to the lab sample ID and/or the client sample ID for inorganic analysis are defined below:

- DL** Diluted reanalysis. Indicates that the results of the original analysis of the sample contained compounds that exceeded the calibration range. The sample was diluted and reanalyzed. May be followed by a digit to indicate multiple dilutions of the sample. The results of more than one diluted reanalysis may be reported.
- R** Reanalysis. The extract was reanalyzed without re-extraction. The "R" is not used if the sample was also re-extracted. May be followed by a digit to indicate multiple reanalysis of the sample at the same dilution.
- RE** Re-extracted. The extract was reanalyzed with re-extraction. May be followed by a digit to indicate multiple re-extraction of the same sample at the same dilution.
- MS** Matrix spike (may be followed by a digit to indicate multiple matrix within a sample set).
- SD** Matrix spike duplicate (may be followed by a digit to indicate multiple matrix spike duplicate within a sample set).
- A** Post Digestion Spike.
- L** Serial Dilution.

Metals Data Package

**CASE NARRATIVE
METALS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHOD

Analyses were performed according to the Spectrum Analytical Inc. Standard Operating Procedures and EPA Method 6010B for ICP metals.

IV. PREPARATION

Soil samples were prepared according to Spectrum Analytical Inc. Laboratory's Standard Operating Procedures and EPA Method 3050B.

Water samples were prepared according to Spectrum Analytical Inc. Laboratory's Standard Operating Procedures and EPA Method 3010A.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

1. Calibration Blanks:

All acceptance criteria were met. No action required. The following ICB/CCB(s) had element concentrations below the RL:
ICB1075515 was analyzed on 05/01/12 09:50. The following analyte(s) were detected below RL: Aluminum at 23.2 ug/L, Barium at 0.245 ug/L, Beryllium at 0.305 ug/L, Cobalt at 0.409 ug/L, Iron at 23 ug/L, Magnesium at 13.2 ug/L.
CCB1075520 was analyzed on 05/01/12 10:23. The following analyte(s) were detected below RL: Aluminum at 21.6 ug/L, Beryllium at 0.215 ug/L, Iron at 27.3 ug/L, Magnesium at 20.5 ug/L.
CCB1075532 was analyzed on 05/01/12 11:56. The following analyte(s) were detected below RL: Aluminum at 10.2 ug/L, Beryllium at 0.2 ug/L, Iron at 8.24 ug/L, Selenium at 6.92 ug/L.

ICB1076626 was analyzed on 05/03/12 09:18. The following analyte(s) were detected below RL: Aluminum at 18.1 ug/L, Barium at 0.421 ug/L, Beryllium at 0.336 ug/L, Iron at 29.8 ug/L, Magnesium at 17.5 ug/L, Nickel at 1.29 ug/L, Silver at 0.56 ug/L.

**CASE NARRATIVE
METALS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

CCB1076668 was analyzed on 05/03/12 14:05. The following analyte(s) were detected below RL: Aluminum at 16.4 ug/L, Beryllium at 0.135 ug/L, Iron at 14.9 ug/L.

CCB1076861 was analyzed on 05/03/12 15:08. The following analyte(s) were detected below RL: Aluminum at 25.7 ug/L, Barium at 0.344 ug/L, Beryllium at 0.238 ug/L, Calcium at 57.3 ug/L, Magnesium at 20.9 ug/L, Manganese at 0.982 ug/L, Selenium at 5.89 ug/L. The following analyte(s) were detected above RL: Iron at 78 ug/L. The hit in the samples for Iron is at least 10X the amount of the hit in the blank. No further action was taken.

CCB1076862 was analyzed on 05/03/12 15:12. The following analyte(s) were detected below RL: Aluminum at 13.9 ug/L, Beryllium at 0.166 ug/L, Iron at 44.2 ug/L, Magnesium at 11.2 ug/L, Manganese at 0.449 ug/L.

CCB1076874 was analyzed on 05/03/12 16:17. The following analyte(s) were detected below RL: Aluminum at 21.4 ug/L, Beryllium at 0.209 ug/L, Magnesium at 15.7 ug/L, Manganese at 0.823 ug/L. The following analyte(s) were detected above RL: Iron at 79.7 ug/L. The hit in the samples for Iron is at least 10X the amount of the hit in the blank. No further action was taken.

CCB1076887 was analyzed on 05/03/12 17:27. The following analyte(s) were detected below RL: Aluminum at 19.2 ug/L, Beryllium at 0.159 ug/L, Iron at 32.7 ug/L.

ICB1079011 was analyzed on 05/09/12 12:23. The following analyte(s) were detected below RL: Chromium at -1.12 ug/L, Manganese at -0.747 ug/L.

CCB1079030 was analyzed on 05/09/12 14:07. The following analyte(s) were detected below RL: Chromium at -1.04 ug/L, Iron at 11.3 ug/L, Manganese at -0.615 ug/L.

CCB1079043 was analyzed on 05/09/12 15:15. The following analyte(s) were detected below RL: Beryllium at 0.198 ug/L, Chromium at -1.16 ug/L, Iron at 18.6 ug/L, Manganese at -0.462 ug/L, Selenium at 4.33 ug/L.

CCB1079055 was analyzed on 05/09/12 16:19. The following analyte(s) were detected below RL: Beryllium at 0.14 ug/L, Chromium at -1.14 ug/L, Iron at 11.8 ug/L, Manganese at -0.586 ug/L, Selenium at 5.73 ug/L.

CCB1079056 was analyzed on 05/09/12 16:23. The following analyte(s) were detected below RL: Beryllium at 0.121 ug/L, Chromium at -1.05 ug/L, Manganese at -0.712 ug/L.

CCB1079069 was analyzed on 05/09/12 17:31. The following analyte(s) were detected below RL: Beryllium at 0.127 ug/L, Chromium at -1.04 ug/L, Iron at 11.4 ug/L, Manganese at -0.739 ug/L.

ICB1079258 was analyzed on 05/10/12 11:31. The following analyte(s) were detected below RL: Barium at 0.327 ug/L, Beryllium at 0.304 ug/L, Iron at 23.2 ug/L, Magnesium at 12.8 ug/L, Potassium at 78.9 ug/L.

CCB1079263 was analyzed on 05/10/12 12:00. The following analyte(s) were detected below RL: Aluminum at 15.1 ug/L, Beryllium at 0.21 ug/L, Iron at 22.1 ug/L, Magnesium at 15.6 ug/L.

**CASE NARRATIVE
METALS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

CCB1079275 was analyzed on 05/10/12 13:17. The following analyte(s) were detected below RL: Aluminum at 10.3 ug/L, Barium at 0.27 ug/L, Beryllium at 0.192 ug/L, Iron at 17.8 ug/L. The hits in the blanks are below the RL, therefore, no corrective action was taken.

2. Method Blanks:

All acceptance criteria were met with the exception of:
Blank 127829MB was analyzed with the soil samples on 05/03/12. The following analyte(s) were detected below RL: Copper at 0.224 mg/Kg, Iron at 2.44 mg/Kg.

Blank 128299MB was analyzed with the water samples on 05/01/12. The following analyte(s) were detected below RL: Calcium at 65 ug/L, Chromium at 0.457 ug/L, Iron at 8.27 ug/L. The hits in the blanks are below the RL, therefore, no corrective action was taken.
Samples coded accordingly.

C. Spikes:

1. Laboratory Control Spikes (LCS):

An LCS/LCSD set was analyzed.
All percent recovery and relative percent difference (RPD) criteria were met.

2. Post Digestion Spike:

All acceptance criteria were met.

3. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD):

A client requested MS/SD set was analyzed.
All percent recovery and relative percent difference (RPD) criteria were met with the exception of:
MS - EPAFMC-SD-07MS was analyzed with the soil samples on 05/03/12. The following analyte(s) were recovered below criteria: Cadmium at 71.5 % with criteria of (75-125), Chromium at 67.7 % with criteria of (75-125), Vanadium at 73.6 % with criteria of (75-125), Zinc at 9.9 % with criteria of (75-125) and the following analyte(s) were recovered above criteria: Aluminum at 138 % with criteria of (75-125), Magnesium at 216.3 % with criteria of (75-125).

SD - EPAFMC-SD-07SD was analyzed with the soil samples on 05/03/12. The following analyte(s) were recovered below criteria: Selenium at 69.6 % with criteria of (75-125), Zinc at 56.4 % with criteria of (75-125) and the following analyte(s) were recovered above criteria: Aluminum at 149.3 % with criteria of (75-125), Chromium at 126.7 % with criteria of (75-125), Magnesium at 148.5 % with criteria of (75-125). The following analyte(s) exceeded RPD criteria: Chromium at 23.6 % with criteria of (20), Magnesium at 21.2 % with criteria of (20), Selenium at 33.7 % with criteria of (20). The most probable cause for the MS/MSD exceeding limits is sample matrix due

**CASE NARRATIVE
METALS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

to the fact that the LCS/LCSD pass all quality control criteria. No further action was taken.

Samples coded accordingly.

D. Duplicate:

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)

E. Serial Dilution:

All acceptance criteria were met with the exception of:
Serial Dilution 350584301L was analyzed with the soil samples on 05/03/12. The following analyte(s) exceeded criteria: Potassium at 12 % with criteria of (10). The most probable cause for the SD exceeding limits is sample matrix due to the fact that the LCS/LCSD pass all quality control criteria. No further action was taken.
Samples coded accordingly.

F. ICP Interference Check Samples:

All acceptance criteria were met.

G. Samples:

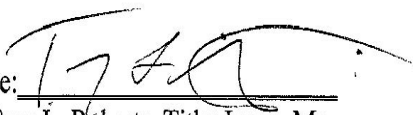
Sample analysis proceeded normally.
Sample EPAFMC-SD-07 required a 5X dilution due to high concentration of the following analyte(s): Calcium, Iron, Manganese.
Sample EPAFMC-SD-08 required a 5X dilution due to high concentration of the following analyte(s): Iron, Manganese.
Sample EPAFMC-SD-09 required a 5X dilution due to high concentration of the following analyte(s): Iron, Manganese.
Sample EPAFMC-SD-10 required a 5X dilution due to high concentration of the following analyte(s): Calcium, Iron, Manganese.
Sample EPAFMC-SD-11 required a 5X dilution due to high concentration of the following analyte(s): Manganese.
Sample EPAFMC-SD-12 required a 5X dilution due to high concentration of the following analyte(s): Copper, Manganese.
Sample EPAFMC-SD-13 required a 5X dilution due to high concentration of the following analyte(s): Manganese.
Sample EPAFMC-SD-14 required a 5X dilution due to high concentration of the following analyte(s): Iron, Manganese.
Sample EPAFMC-SD-15 required a 5X dilution due to high concentration of the following analyte(s): Calcium, Iron, Manganese.
Sample EPAFMC-SD-16 required a 5X dilution due to high concentration of the following analyte(s): Manganese.

**CASE NARRATIVE
METALS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature: 
Name: Troy L. Roberts Title: Inorg. Manager

SIGNED:

DATE: 05/10/2012

**CASE NARRATIVE
MERCURY**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

Analyses were performed according to the Spectrum Analytical Inc. Standard Operating Procedures and EPA Method 7470A.

IV. PREPARATION

Water samples were prepared according to the Spectrum Analytical Inc. Laboratory's Standard Operating Procedures and EPA Method 7470A.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

1. Calibration Blanks:

All acceptance criteria were met. No action required. The following ICB/CCB(s) had element concentrations below the RL:
CCB1073879 was analyzed on 04/26/12 15:57. The following analyte(s) were detected below RL: Mercury at -0.0383 ug/L. The hit in the blank is below the RL, therefore, no corrective action was taken.

2. Method Blanks:

All acceptance criteria were met.

C. Spikes:

1. Laboratory Control Spikes (LCS):

An LCS/LCSD set was analyzed.
All percent recovery and relative percent difference (RPD) criteria were met.

2. Post Digestion Spike:

**CASE NARRATIVE
MERCURY**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

All acceptance criteria were met.

3. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD):

No spikes requested by client.

D. Duplicate:

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)


E. Serial Dilution:

All acceptance criteria were met.

F. Samples:

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature: 
Name: Troy L. Roberts Title: Inorg. Manager

SIGNED:

DATE: 05/09/2012

**CASE NARRATIVE
MERCURY**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

Samples were analyzed according to the Spectrum Analytical Inc. Standard Operating Procedures and EPA Method 7471A.

IV. PREPARATION

Soil samples were prepared according to Spectrum Analytical Inc. Laboratory's Standard Operating Procedures and EPA Method 7471A.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

1. Calibration Blanks:

All acceptance criteria were met.

2. Method Blanks:

All acceptance criteria were met.

C. Spikes:

1. Laboratory Control Spikes (LCS):

An LCS/LCSD set was analyzed.
All percent recovery and relative percent difference (RPD) criteria were met.

2. Post Digestion Spike:

All acceptance criteria were met.

3. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD):

**CASE NARRATIVE
MERCURY**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

A client requested MS/SD set was analyzed.
All percent recovery and relative percent difference (RPD) criteria were met.

D. Duplicate:

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)

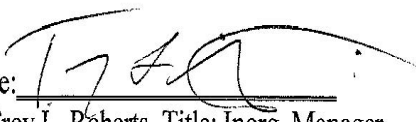
E. Serial Dilution:

All acceptance criteria were met.

F. Samples:

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature: 
Name: Troy L. Roberts Title: Inorg. Manager

SIGNED:

DATE: 05/09/2012

**CASE NARRATIVE
THALLIUM**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

Analyses were performed according to the Spectrum Analytical Inc. Standard Operating Procedures and EPA Method 7841.

IV. PREPARATION

Water samples were prepared according to PEL Laboratory's Standard Operating Procedures and EPA Method 3020.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

1. Calibration Blanks:

All acceptance criteria were met.

2. Method Blanks:

All acceptance criteria were met.

C. Spikes:

1. Laboratory Control Spikes (LCS):

An LCS/LCSD set was analyzed.
All percent recovery and relative percent difference (RPD) criteria were met.

2. Post Digestion Spike:

All acceptance criteria were met.

**CASE NARRATIVE
THALLIUM**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

3. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD):

No spikes requested by client.

D. Duplicate:

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)

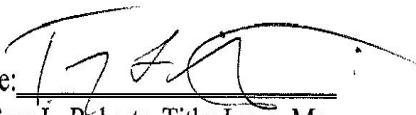
E. Serial Dilution:

All acceptance criteria were met.

F. Samples:

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature: 
Name: Troy L. Roberts Title: Inorg. Manager

SIGNED:

DATE: 05/09/2012

**U.S. EPA - CLP
COVER PAGE - INORGANIC ANALYSES DATA PACKAGE**

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Sit
 Lab Code : PEL Case No.: _____ SDG No.: 3505843
 SOW No.: _____

EPA Sample No	Lab Sample ID
EPAFMC-SD-07	350584301
EPAFMC-SD-07DL1	350584301DL1
EPAFMC-SD-08	350584304
EPAFMC-SD-08DL1	350584304DL1
EPAFMC-SD-09	350584305
EPAFMC-SD-09DL1	350584305DL1
EPAFMC-SD-10	350584306
EPAFMC-SD-10DL1	350584306DL1
EPAFMC-SD-11	350584307
EPAFMC-SD-11DL1	350584307DL1
EPAFMC-SD-12	350584308
EPAFMC-SD-12DL1	350584308DL1
EPAFMC-SD-13	350584309
EPAFMC-SD-13DL1	350584309DL1
EPAFMC-SD-14	350584310
EPAFMC-SD-14DL1	350584310DL1
EPAFMC-SD-15	350584311
EPAFMC-SD-15DL1	350584311DL1
EPAFMC-SD-16	350584312
EPAFMC-SD-16DL1	350584312DL1
EPAFMC-SW-01	350584313
EPAFMC-SW-03	350584314

Were ICP interelement corrections applied? Yes/No Yes
 Were ICP background corrections applied? Yes/No Yes
 If yes - were raw data generated before application of background corrections? Yes/No No

Comments:

Metals Inorganic Sample Data

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-07
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584301
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 75.5 Station ID: EPAFMC06

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	5010		N	P	1.68	8.82
7440-36-0	Antimony	0.66	J		P	0.212	0.882
7440-38-2	Arsenic	18.1			P	0.441	0.882
7440-39-3	Barium	37.2			P	0.141	0.441
7440-41-7	Beryllium	0.399	J		P	0.141	0.441
7440-43-9	Cadmium	8.64		N	P	0.0441	0.441
7440-47-3	Chromium	63.3		*N	P	0.141	0.441
7440-48-4	Cobalt	6.5			P	0.0441	0.441
7440-50-8	Copper	9.28			P	0.141	0.441
7439-92-1	Lead	21.7			P	0.3	0.705
7439-95-4	Magnesium	5340		*N	P	2.56	8.82
7439-97-6	Mercury	0.0156	J		CV	0.0046	0.0249
7440-02-0	Nickel	9.53			P	0.141	0.441
7440-09-7	Potassium	298		E	P	4.41	44.1
7782-49-2	Selenium	0.353	U	*N	P	0.353	1.76
7440-22-4	Silver	0.141	U		P	0.141	0.441
7440-23-5	Sodium	67.4			P	8.82	26.4
7440-28-0	Thallium	0.531	J		P	0.3	0.882
7440-62-2	Vanadium	58.8		N	P	0.141	0.441
7440-66-6	Zinc	142		N	P	0.291	0.882

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

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1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-07DL1
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584301DL1
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 75.5 Station ID: EPAFMC06

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7440-70-2	Calcium	15600			P		14.6	44.1
7439-89-6	Iron	34600			P		2.64	22
7439-96-5	Manganese	422			P		0.705	2.2

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

EPAFMC-SD-08

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584304

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 97.1 Station ID: EPAFMC07

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	5600			P	1.56	8.2
7440-36-0	Antimony	0.204	J		P	0.197	0.82
7440-38-2	Arsenic	16.1			P	0.41	0.82
7440-39-3	Barium	57.1			P	0.131	0.41
7440-41-7	Beryllium	0.577			P	0.131	0.41
7440-43-9	Cadmium	0.041	U		P	0.041	0.41
7440-70-2	Calcium	17400			P	2.7	8.2
7440-47-3	Chromium	68.2			P	0.131	0.41
7440-48-4	Cobalt	8.45			P	0.041	0.41
7440-50-8	Copper	19.3			P	0.131	0.41
7439-92-1	Lead	20.3			P	0.279	0.656
7439-95-4	Magnesium	7250			P	2.38	8.2
7439-97-6	Mercury	0.0182	J		CV	0.00361	0.0195
7440-02-0	Nickel	10.1			P	0.131	0.41
7440-09-7	Potassium	334			P	4.1	41
7782-49-2	Selenium	0.328	U		P	0.328	1.64
7440-22-4	Silver	0.131	U		P	0.131	0.41
7440-23-5	Sodium	74.2			P	8.2	24.6
7440-28-0	Thallium	0.707	J		P	0.279	0.82
7440-62-2	Vanadium	44.6			P	0.131	0.41
7440-66-6	Zinc	140			P	0.27	0.82

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-08DL1
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584304DL1
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 97.1 Station ID: EPAFMC07

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7439-89-6	Iron	42400			P		2.46	20.5
7439-96-5	Manganese	659			P		0.656	2.05

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-09
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584305
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 77.7 Station ID: EPAFMC08

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	5060			P	1.57	8.25
7440-36-0	Antimony	0.636	J		P	0.198	0.825
7440-38-2	Arsenic	23.8			P	0.412	0.825
7440-39-3	Barium	50.3			P	0.132	0.412
7440-41-7	Beryllium	0.437			P	0.132	0.412
7440-43-9	Cadmium	0.0412	U		P	0.0412	0.412
7440-70-2	Calcium	17400			P	2.72	8.25
7440-47-3	Chromium	58.8			P	0.132	0.412
7440-48-4	Cobalt	8.27			P	0.0412	0.412
7440-50-8	Copper	29			P	0.132	0.412
7439-92-1	Lead	22.2			P	0.28	0.66
7439-95-4	Magnesium	5090			P	2.39	8.25
7439-97-6	Mercury	0.0457			CV	0.00278	0.015
7440-02-0	Nickel	8.52			P	0.132	0.412
7440-09-7	Potassium	262			P	4.12	41.2
7782-49-2	Selenium	0.33	U		P	0.33	1.65
7440-22-4	Silver	0.132	U		P	0.132	0.412
7440-23-5	Sodium	140			P	8.25	24.8
7440-28-0	Thallium	0.525	J		P	0.28	0.825
7440-62-2	Vanadium	55.3			P	0.132	0.412
7440-66-6	Zinc	117			P	0.272	0.825

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-09DL1
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584305DL1
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 77.7 Station ID: EPAFMC08

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7439-89-6	Iron	43700			P		2.48	20.6
7439-96-5	Manganese	512			P		0.66	2.06

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

EPAFMC-SD-10

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584306

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 79.7 Station ID: EPAFMC09

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	8300			P	1.51	7.95
7440-36-0	Antimony	1.24			P	0.191	0.795
7440-38-2	Arsenic	26.7			P	0.398	0.795
7440-39-3	Barium	102			P	0.127	0.398
7440-41-7	Beryllium	1.25			P	0.127	0.398
7440-43-9	Cadmium	0.0398	U		P	0.0398	0.398
7440-47-3	Chromium	106			P	0.127	0.398
7440-48-4	Cobalt	10.8			P	0.0398	0.398
7440-50-8	Copper	11.1			P	0.127	0.398
7439-92-1	Lead	22.3			P	0.27	0.636
7439-95-4	Magnesium	6610			P	2.3	7.95
7439-97-6	Mercury	0.00858	J		CV	0.00239	0.0129
7440-02-0	Nickel	9.96			P	0.127	0.398
7440-09-7	Potassium	658			P	3.98	39.8
7782-49-2	Selenium	0.318	U		P	0.318	1.59
7440-22-4	Silver	0.127	U		P	0.127	0.398
7440-23-5	Sodium	186			P	7.95	23.8
7440-28-0	Thallium	0.686	J		P	0.27	0.795
7440-62-2	Vanadium	86.3			P	0.127	0.398
7440-66-6	Zinc	231			P	0.262	0.795

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-10DL1
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584306DL1
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 79.7 Station ID: EPAFMC09

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7440-70-2	Calcium	25200			P		13.1	39.8
7439-89-6	Iron	56200			P		2.38	19.9
7439-96-5	Manganese	1750			P		0.636	1.99

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-11
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584307
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 78.4 Station ID: EPAFMC10

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	4910			P	1.86	9.81
7440-36-0	Antimony	0.345	J		P	0.235	0.981
7440-38-2	Arsenic	13.2			P	0.49	0.981
7440-39-3	Barium	45.5			P	0.157	0.49
7440-41-7	Beryllium	0.577			P	0.157	0.49
7440-43-9	Cadmium	0.049	U		P	0.049	0.49
7440-70-2	Calcium	21400			P	3.24	9.81
7440-47-3	Chromium	47.6			P	0.157	0.49
7440-48-4	Cobalt	6.73			P	0.049	0.49
7440-50-8	Copper	6.49			P	0.157	0.49
7439-89-6	Iron	28000			P	0.589	4.9
7439-92-1	Lead	14.2			P	0.334	0.785
7439-95-4	Magnesium	6810			P	2.84	9.81
7439-97-6	Mercury	0.021			CV	0.00335	0.0181
7440-02-0	Nickel	7.28			P	0.157	0.49
7440-09-7	Potassium	343			P	4.9	49
7782-49-2	Selenium	0.392	U		P	0.392	1.96
7440-22-4	Silver	0.157	U		P	0.157	0.49
7440-23-5	Sodium	95.8			P	9.81	29.4
7440-28-0	Thallium	0.334	U		P	0.334	0.981
7440-62-2	Vanadium	44.1			P	0.157	0.49

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-11
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584307
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 78.4 Station ID: EPAFMC10

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7440-66-6	Zinc	100			P		0.324	0.981

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-11DL1
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584307DL1
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 78.4 Station ID: EPAFMC10

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7439-96-5	Manganese	591			P		0.785	2.45

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-12
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584308
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 84.4 Station ID: EPAFMC11

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	4670			P	1.78	9.34
7440-36-0	Antimony	1.26			P	0.224	0.934
7440-38-2	Arsenic	18			P	0.467	0.934
7440-39-3	Barium	54.6			P	0.15	0.467
7440-41-7	Beryllium	0.486			P	0.15	0.467
7440-43-9	Cadmium	0.0467	U		P	0.0467	0.467
7440-70-2	Calcium	18600			P	3.08	9.34
7440-47-3	Chromium	61.3			P	0.15	0.467
7440-48-4	Cobalt	13			P	0.0467	0.467
7439-89-6	Iron	31500			P	0.561	4.67
7439-92-1	Lead	30.4			P	0.318	0.748
7439-95-4	Magnesium	6980			P	2.71	9.34
7439-97-6	Mercury	0.0256			CV	0.00375	0.0203
7440-02-0	Nickel	18.3			P	0.15	0.467
7440-09-7	Potassium	272			P	4.67	46.7
7782-49-2	Selenium	0.374	U		P	0.374	1.87
7440-22-4	Silver	0.328	J		P	0.15	0.467
7440-23-5	Sodium	80.1			P	9.34	28
7440-28-0	Thallium	0.318	U		P	0.318	0.934
7440-62-2	Vanadium	45			P	0.15	0.467
7440-66-6	Zinc	144			P	0.308	0.934

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-12DL1
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584308DL1
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 84.4 Station ID: EPAFMC11

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7440-50-8	Copper	636			P		0.748	2.34
7439-96-5	Manganese	892			P		0.748	2.34

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

EPAFMC-SD-13

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584309

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 78 Station ID: EPAFMC12

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	5520			P	1.98	10.4
7440-36-0	Antimony	0.735	J		P	0.25	1.04
7440-38-2	Arsenic	15.2			P	0.52	1.04
7440-39-3	Barium	49.1			P	0.166	0.52
7440-41-7	Beryllium	0.44	J		P	0.166	0.52
7440-43-9	Cadmium	0.052	U		P	0.052	0.52
7440-70-2	Calcium	19200			P	3.43	10.4
7440-47-3	Chromium	50.2			P	0.166	0.52
7440-48-4	Cobalt	10.3			P	0.052	0.52
7440-50-8	Copper	43.1			P	0.166	0.52
7439-89-6	Iron	35700			P	0.624	5.2
7439-92-1	Lead	36.1			P	0.354	0.832
7439-95-4	Magnesium	7370			P	3.02	10.4
7439-97-6	Mercury	0.167			CV	0.00256	0.0138
7440-02-0	Nickel	10.7			P	0.166	0.52
7440-09-7	Potassium	312			P	5.2	52
7782-49-2	Selenium	0.416	U		P	0.416	2.08
7440-22-4	Silver	0.166	U		P	0.166	0.52
7440-23-5	Sodium	73.6			P	10.4	31.2
7440-28-0	Thallium	0.656	J		P	0.354	1.04
7440-62-2	Vanadium	52			P	0.166	0.52

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-13
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584309
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 78 Station ID: EPAFMC12

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7440-66-6	Zinc	168			P		0.343	1.04

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-13DL1
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584309DL1
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 78 Station ID: EPAFMC12

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7439-96-5	Manganese	915			P		0.832	2.6

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-14
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584310
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 80.6 Station ID: EPAFMC13

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	3570			P	1.34	7.04
7440-36-0	Antimony	0.562	J		P	0.169	0.704
7440-38-2	Arsenic	13.9			P	0.352	0.704
7440-39-3	Barium	26.8			P	0.113	0.352
7440-41-7	Beryllium	0.437			P	0.113	0.352
7440-43-9	Cadmium	0.0352	U		P	0.0352	0.352
7440-70-2	Calcium	12400			P	2.32	7.04
7440-47-3	Chromium	45			P	0.113	0.352
7440-48-4	Cobalt	6.51			P	0.0352	0.352
7440-50-8	Copper	14.3			P	0.113	0.352
7439-92-1	Lead	15.2			P	0.239	0.563
7439-95-4	Magnesium	4680			P	2.04	7.04
7439-97-6	Mercury	0.0186			CV	0.00345	0.0186
7440-02-0	Nickel	5.7			P	0.113	0.352
7440-09-7	Potassium	126			P	3.52	35.2
7782-49-2	Selenium	0.282	U		P	0.282	1.41
7440-22-4	Silver	0.113	U		P	0.113	0.352
7440-23-5	Sodium	45.8			P	7.04	21.1
7440-28-0	Thallium	0.326	J		P	0.239	0.704
7440-62-2	Vanadium	44			P	0.113	0.352
7440-66-6	Zinc	110			P	0.232	0.704

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-14DL1
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584310DL1
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 80.6 Station ID: EPAFMC13

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7439-89-6	Iron	32500			P		2.11	17.6
7439-96-5	Manganese	787			P		0.563	1.76

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-15
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584311
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 82.2 Station ID: EPAFMC14

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	5890			P	1.47	7.74
7440-36-0	Antimony	0.55	J		P	0.186	0.774
7440-38-2	Arsenic	14.4			P	0.387	0.774
7440-39-3	Barium	67.7			P	0.124	0.387
7440-41-7	Beryllium	0.587			P	0.124	0.387
7440-43-9	Cadmium	1.46			P	0.0387	0.387
7440-47-3	Chromium	63.2			P	0.124	0.387
7440-48-4	Cobalt	7.69			P	0.0387	0.387
7440-50-8	Copper	11.9			P	0.124	0.387
7439-92-1	Lead	18.4			P	0.263	0.619
7439-95-4	Magnesium	9660			P	2.24	7.74
7439-97-6	Mercury	0.0165			CV	0.00264	0.0143
7440-02-0	Nickel	16.6			P	0.124	0.387
7440-09-7	Potassium	283			P	3.87	38.7
7782-49-2	Selenium	0.31	U		P	0.31	1.55
7440-22-4	Silver	0.124	U		P	0.124	0.387
7440-23-5	Sodium	227			P	7.74	23.2
7440-28-0	Thallium	0.271	J		P	0.263	0.774
7440-62-2	Vanadium	50.5			P	0.124	0.387
7440-66-6	Zinc	146			P	0.255	0.774

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-15DL1
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584311DL1
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 82.2 Station ID: EPAFMC14

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7440-70-2	Calcium	24200			P	12.8	38.7
7439-89-6	Iron	35000			P	2.32	19.3
7439-96-5	Manganese	851			P	0.619	1.93

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-16
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584312
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 80.1 Station ID: EPAFMC11

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	4120			P	1.53	8.08
7440-36-0	Antimony	4.95			P	0.194	0.808
7440-38-2	Arsenic	12.4			P	0.404	0.808
7440-39-3	Barium	56			P	0.129	0.404
7440-41-7	Beryllium	0.389	J		P	0.129	0.404
7440-43-9	Cadmium	0.0404	U		P	0.0404	0.404
7440-70-2	Calcium	20000			P	2.66	8.08
7440-47-3	Chromium	54.4			P	0.129	0.404
7440-48-4	Cobalt	10.4			P	0.0404	0.404
7440-50-8	Copper	12.3			P	0.129	0.404
7439-89-6	Iron	24300			P	0.484	4.04
7439-92-1	Lead	42.7			P	0.274	0.646
7439-95-4	Magnesium	8940			P	2.34	8.08
7439-97-6	Mercury	0.0193			CV	0.00288	0.0156
7440-02-0	Nickel	14.1			P	0.129	0.404
7440-09-7	Potassium	238			P	4.04	40.4
7782-49-2	Selenium	0.323	U		P	0.323	1.62
7440-22-4	Silver	0.129	U		P	0.129	0.404
7440-23-5	Sodium	93.4			P	8.08	24.2
7440-28-0	Thallium	0.5	J		P	0.274	0.808
7440-62-2	Vanadium	34.9			P	0.129	0.404

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-16
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584312
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 80.1 Station ID: EPAFMC11

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7440-66-6	Zinc	121			P		0.266	0.808

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-16DL1
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584312DL1
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 80.1 Station ID: EPAFMC11

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7439-96-5	Manganese	703			P		0.646	2.02

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

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1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

EPAFMC-SW-01

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: WATER Lab Sample ID: 350584313

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 0 Station ID: EPAFMC11

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	64.5	J		P	9.3	100
7440-36-0	Antimony	3.3	U		P	3.3	10
7440-38-2	Arsenic	7.06	J		P	3.31	10
7440-39-3	Barium	32			P	0.22	10
7440-41-7	Beryllium	0.12	U		P	0.12	5
7440-43-9	Cadmium	0.72	U		P	0.72	5
7440-70-2	Calcium	44300			P	39	100
7440-47-3	Chromium	0.901	J		P	0.43	10
7440-48-4	Cobalt	0.37	U		P	0.37	10
7440-50-8	Copper	2.7	U		P	2.7	10
7439-89-6	Iron	102			P	5.5	50
7439-92-1	Lead	3.7	U		P	3.7	15
7439-95-4	Magnesium	20400			P	9.8	100
7439-96-5	Manganese	33.9			P	0.35	10
7439-97-6	Mercury	0.037	U		CV	0.037	0.2
7440-02-0	Nickel	0.93	U		P	0.93	5
7440-09-7	Potassium	1130			P	71.7	500
7782-49-2	Selenium	4.1	U		P	4.1	20
7440-22-4	Silver	0.52	U		P	0.52	10
7440-23-5	Sodium	26000			P	180	300
7440-28-0	Thallium	0.507	J		F	0.34	2

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SW-01
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: WATER Lab Sample ID: 350584313
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 0 Station ID: EPAFMC11

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7440-62-2	Vanadium	0.565	J		P		0.44	10
7440-66-6	Zinc	4.23	J		P		4	20

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

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1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

EPAFMC-SW-03

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: WATER Lab Sample ID: 350584314

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 0 Station ID: EPAFMC11

CONCENTRATION UNITS: *UG/L*

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	57.3	J		P	9.3	100
7440-36-0	Antimony	3.3	U		P	3.3	10
7440-38-2	Arsenic	3.31	U		P	3.31	10
7440-39-3	Barium	33.9			P	0.22	10
7440-41-7	Beryllium	0.12	U		P	0.12	5
7440-43-9	Cadmium	0.72	U		P	0.72	5
7440-70-2	Calcium	46200			P	39	100
7440-47-3	Chromium	0.813	J		P	0.43	10
7440-48-4	Cobalt	0.37	U		P	0.37	10
7440-50-8	Copper	2.7	U		P	2.7	10
7439-89-6	Iron	94.8			P	5.5	50
7439-92-1	Lead	3.7	U		P	3.7	15
7439-95-4	Magnesium	21400			P	9.8	100
7439-96-5	Manganese	37.7			P	0.35	10
7439-97-6	Mercury	0.037	U		CV	0.037	0.2
7440-02-0	Nickel	0.93	U		P	0.93	5
7440-09-7	Potassium	1220			P	71.7	500
7782-49-2	Selenium	12.9	J		P	4.1	20
7440-22-4	Silver	0.52	U		P	0.52	10
7440-23-5	Sodium	27200			P	180	300
7440-28-0	Thallium	0.34	U		F	0.34	2

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SW-03
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: WATER Lab Sample ID: 350584314
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 0 Station ID: EPAFMC11

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7440-62-2	Vanadium	0.546	J		P		0.44	10
7440-66-6	Zinc	4.44	J		P		4	20

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

Metals Inorganic QC Summary Data

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 127643MB
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: WATER Lab Sample ID: 127643MB
 Level:(low/med) LOW Date Received: 4/26/2012
 PercentSolids: 0 Station ID: _____

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7439-97-6	Mercury	0.037	U		CV		0.037	0.2

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 127829MB
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 127829MB
 Level:(low/med) LOW Date Received: 4/26/2012
 PercentSolids: 100 Station ID: _____

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	1.69	U		P	1.69	8.88
7440-36-0	Antimony	0.213	U		P	0.213	0.888
7440-38-2	Arsenic	0.444	U		P	0.444	0.888
7440-39-3	Barium	0.142	U		P	0.142	0.444
7440-41-7	Beryllium	0.142	U		P	0.142	0.444
7440-43-9	Cadmium	0.0444	U		P	0.0444	0.444
7440-70-2	Calcium	2.93	U		P	2.93	8.88
7440-47-3	Chromium	0.142	U		P	0.142	0.444
7440-48-4	Cobalt	0.0444	U		P	0.0444	0.444
7440-50-8	Copper	0.224	J		P	0.142	0.444
7439-89-6	Iron	2.44	J		P	0.533	4.44
7439-92-1	Lead	0.302	U		P	0.302	0.71
7439-95-4	Magnesium	2.58	U		P	2.58	8.88
7439-96-5	Manganese	0.142	U		P	0.142	0.444
7440-02-0	Nickel	0.142	U		P	0.142	0.444
7440-09-7	Potassium	4.44	U		P	4.44	44.4
7782-49-2	Selenium	0.355	U		P	0.355	1.78
7440-22-4	Silver	0.142	U		P	0.142	0.444
7440-23-5	Sodium	8.88	U		P	8.88	26.6
7440-28-0	Thallium	0.302	U		P	0.302	0.888
7440-62-2	Vanadium	0.142	U		P	0.142	0.444

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 127829MB
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 127829MB
 Level:(low/med) LOW Date Received: 4/26/2012
 PercentSolids: 100 Station ID: _____

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7440-66-6	Zinc	0.293	U		P		0.293	0.888

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

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1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 127862MB
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: WATER Lab Sample ID: 127862MB
 Level:(low/med) LOW Date Received: 4/26/2012
 PercentSolids: 0 Station ID: _____

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7440-28-0	Thallium	0.34	U		F		0.34	2

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 127984MB
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 127984MB
 Level:(low/med) LOW Date Received: 4/26/2012
 PercentSolids: 100 Station ID: _____

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7439-97-6	Mercury	0.00348	U		CV	0.00348	0.0188

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 128299MB
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: WATER Lab Sample ID: 128299MB
 Level:(low/med) LOW Date Received: 4/30/2012
 PercentSolids: 0 Station ID: _____

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	9.3	U		P	9.3	100
7440-36-0	Antimony	3.3	U		P	3.3	10
7440-38-2	Arsenic	3.31	U		P	3.31	10
7440-39-3	Barium	0.22	U		P	0.22	10
7440-41-7	Beryllium	0.12	U		P	0.12	5
7440-43-9	Cadmium	0.72	U		P	0.72	5
7440-70-2	Calcium	65	J		P	39	100
7440-47-3	Chromium	0.457	J		P	0.43	10
7440-48-4	Cobalt	0.37	U		P	0.37	10
7440-50-8	Copper	2.7	U		P	2.7	10
7439-89-6	Iron	8.27	J		P	5.5	50
7439-92-1	Lead	3.7	U		P	3.7	15
7439-95-4	Magnesium	9.8	U		P	9.8	100
7440-02-0	Nickel	0.93	U		P	0.93	5
7440-09-7	Potassium	71.7	U		P	71.7	500
7782-49-2	Selenium	4.1	U		P	4.1	20
7440-22-4	Silver	0.52	U		P	0.52	10
7440-23-5	Sodium	180	U		P	180	300
7440-62-2	Vanadium	0.44	U		P	0.44	10
7440-66-6	Zinc	4	U		P	4	20

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

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1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 128299MBR1
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: WATER Lab Sample ID: 128299MBR1
 Level:(low/med) LOW Date Received: 4/30/2012
 PercentSolids: 0 Station ID: _____

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7439-89-6	Iron	5.5	U		P		5.5	50

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Initial Calibration Source: 45799
 45812
 45433

Continuing Calibration Source: 45798
 44195
 45624

Concentration Units: (ug/L)

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R (1)	True	Found	%R (1)	Found	%R (1)	
Aluminum	40000	41000.000	102.5	25000	25300.000	101.2	25200.000	100.8	P
Antimony	400	420.000	105.0	500	519.000	103.8	519.000	103.8	P
Arsenic	400	429.000	107.2	500	528.000	105.6	521.000	104.2	P
Barium	1200	1230.000	102.5	500	523.000	104.6	516.000	103.2	P
Beryllium	400	430.000	107.5	500	520.000	104.0	526.000	105.2	P
Cadmium	400	413.000	103.2	500	512.000	102.4	513.000	102.6	P
Calcium	40000	41500.000	103.8	25000	25600.000	102.4	25400.000	101.6	P
Chromium	400	420.000	105.0	500	523.000	104.6	518.000	103.6	P
Cobalt	400	414.000	103.5	500	526.000	105.2	522.000	104.4	P
Copper	400	410.000	102.5	500	500.000	100.0	505.000	101.0	P
Iron	40000	41600.000	104.0	40000	41600.000	104.0	41200.000	103.0	P
Lead	400	434.000	108.5	500	532.000	106.4	531.000	106.2	P
Magnesium	40000	40800.000	102.0	25000	25700.000	102.8	25400.000	101.6	P
Manganese	400	423.000	105.8	500	518.000	103.6	522.000	104.4	P
Mercury	3	3.050	101.7	5	5.020	100.4	5.030	100.6	CV
Nickel	400	424.000	106.0	500	527.000	105.4	524.000	104.8	P
Potassium	40000	41900.000	104.8	25000	25500.000	102.0	25400.000	101.6	P
Selenium	400	415.000	103.8	500	521.000	104.2	514.000	102.8	P
Silver	160	164.000	102.5	500	514.000	102.8	508.000	101.6	P
Sodium	40000	40800.000	102.0	25000	25100.000	100.4	25100.000	100.4	P
Thallium									P
Thallium	25	25.500	102.0	25	25.200	100.8	26.000	104.0	F
Vanadium	400	427.000	106.8	500	528.000	105.6	520.000	104.0	P
Zinc	400	434.000	108.5	500	534.000	106.8	521.000	104.2	P

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

110512 1916

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No. SAS No: SDG No.: 3505843

ICV IDs: CV= ICV1073864, F= ICV1076478, P= ICV1075514
CCV1 IDs: CV= CCV1073866, F= CCV1076481, P= CCV1075519
CCV2 IDs: CV= CCV1073878, F= CCV1076492, P= CCV1075531

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110
ICV is Second Source

110512 1916

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Initial Calibration Source: 45799
45433

Continuing Calibration Source: 45798
45624

Concentration Units: (ug/L)

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R (1)	True	Found	%R (1)	Found	%R (1)	
Aluminum	40000	40500.000	101.2	25000	25900.000	103.6	24600.000	98.4	P
Antimony	400	415.000	103.8	500	530.000	106.0	515.000	103.0	P
Arsenic	400	421.000	105.2	500	528.000	105.6	517.000	103.4	P
Barium	1200	1210.000	100.8	500	524.000	104.8	510.000	102.0	P
Beryllium	400	425.000	106.2	500	526.000	105.2	509.000	101.8	P
Cadmium	400	417.000	104.2	500	528.000	105.6	518.000	103.6	P
Calcium	40000	40500.000	101.2	25000	26000.000	104.0	24800.000	99.2	P
Chromium	400	413.000	103.2	500	523.000	104.6	509.000	101.8	P
Cobalt	400	410.000	102.5	500	529.000	105.8	515.000	103.0	P
Copper	400	406.000	101.5	500	506.000	101.2	486.000	97.2	P
Iron	40000	40900.000	102.2	40000	42500.000	106.2	40300.000	100.8	P
Lead	400	420.000	105.0	500	530.000	106.0	515.000	103.0	P
Magnesium	40000	40400.000	101.0	25000	26600.000	106.4	25100.000	100.4	P
Manganese	400	417.000	104.2	500	523.000	104.6	506.000	101.2	P
Mercury	3	3.150	105.0	5	5.040	100.8	5.160	103.2	CV
Nickel	400	417.000	104.2	500	527.000	105.4	516.000	103.2	P
Potassium	40000	40700.000	101.8	25000	25600.000	102.4	24600.000	98.4	P
Selenium	400	420.000	105.0	500	523.000	104.6	510.000	102.0	P
Silver	160	163.000	101.9	500	522.000	104.4	503.000	100.6	P
Sodium	40000	40400.000	101.0	25000	25900.000	103.6	24700.000	98.8	P
Thallium									F
Thallium	400	412.000	103.0	500	528.000	105.6	512.000	102.4	P
Vanadium	400	425.000	106.2	500	529.000	105.8	509.000	101.8	P
Zinc	400	426.000	106.5	500	536.000	107.2	523.000	104.6	P

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

110512 1916

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No. SAS No: SDG No.: 3505843

ICV IDs: CV= ICV1074256, P= ICV1076625
CCV1 IDs: CV= CCV1073890, P= CCV1076630
CCV2 IDs: CV= CCV1074258, P= CCV1076642

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110
ICV is Second Source

110512 1916

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. SAS No: SDG No.: 3505843

Initial Calibration Source:

Continuing Calibration Source: 45798
 45624

Concentration Units: (ug/L)

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R (1)	True	Found	%R (1)	Found	%R (1)	
Aluminum				25000	25500.000	102.0	25000.000	100.0	P
Antimony				500	515.000	103.0	512.000	102.4	P
Arsenic				500	520.000	104.0	516.000	103.2	P
Barium				500	518.000	103.6	512.000	102.4	P
Beryllium				500	513.000	102.6	504.000	100.8	P
Cadmium				500	517.000	103.4	505.000	101.0	P
Calcium				25000	25900.000	103.6	25000.000	100.0	P
Chromium				500	514.000	102.8	506.000	101.2	P
Cobalt				500	521.000	104.2	512.000	102.4	P
Copper				500	491.000	98.2	484.000	96.8	P
Iron				40000	41900.000	104.8	41000.000	102.5	P
Lead				500	518.000	103.6	511.000	102.2	P
Magnesium				25000	26200.000	104.8	25500.000	102.0	P
Manganese				500	512.000	102.4	501.000	100.2	P
Mercury				5	4.990	99.8	4.760	95.2	CV
Nickel				500	517.000	103.4	507.000	101.4	P
Potassium				25000	25500.000	102.0	25200.000	100.8	P
Selenium				500	506.000	101.2	500.000	100.0	P
Silver				500	512.000	102.4	509.000	101.8	P
Sodium				25000	25500.000	102.0	25200.000	100.8	P
Thallium									F
Thallium				500	516.000	103.2	513.000	102.6	P
Vanadium				500	520.000	104.0	516.000	103.2	P
Zinc				500	544.000	108.8	523.000	104.6	P

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

110512 1916

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No. SAS No: SDG No.: 3505843

ICV IDs:

CCV1 IDs: CV= CCV1074270, P= CCV1076654

CCV2 IDs: CV= CCV1074282, P= CCV1076667

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

110512 1916

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. SAS No: SDG No.: 3505843

Initial Calibration Source:

Continuing Calibration Source: 45798
 45624

Concentration Units: (ug/L)

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R (1)	True	Found	%R (1)	Found	%R (1)	
Aluminum				25000	25200.000	100.8	25400.000	101.6	P
Antimony				500	518.000	103.6	523.000	104.6	P
Arsenic				500	526.000	105.2	525.000	105.0	P
Barium				500	521.000	104.2	522.000	104.4	P
Beryllium				500	515.000	103.0	516.000	103.2	P
Cadmium				500	515.000	103.0	516.000	103.2	P
Calcium				25000	25500.000	102.0	25700.000	102.8	P
Chromium				500	516.000	103.2	516.000	103.2	P
Cobalt				500	523.000	104.6	524.000	104.8	P
Copper				500	496.000	99.2	497.000	99.4	P
Iron				40000	41800.000	104.5	42400.000	106.0	P
Lead				500	519.000	103.8	525.000	105.0	P
Magnesium				25000	26000.000	104.0	26400.000	105.6	P
Manganese				500	514.000	102.8	517.000	103.4	P
Mercury				5	4.910	98.2	4.660	93.2	CV
Nickel				500	520.000	104.0	521.000	104.2	P
Potassium				25000	25300.000	101.2	25800.000	103.2	P
Selenium				500	505.000	101.0	509.000	101.8	P
Silver				500	520.000	104.0	520.000	104.0	P
Sodium				25000	25400.000	101.6	25800.000	103.2	P
Thallium				500	524.000	104.8	526.000	105.2	P
Thallium									F
Vanadium				500	529.000	105.8	530.000	106.0	P
Zinc				500	537.000	107.4	537.000	107.4	P

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No. SAS No: SDG No.: 3505843

ICV IDs:

CCV1 IDs: CV= CCV1074294, P= CCV1076860

CCV2 IDs: CV= CCV1074306, P= CCV1076873

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

110512 1916

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. SAS No: SDG No.: 3505843

Initial Calibration Source:

Continuing Calibration Source: 45624

Concentration Units: (ug/L)

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R (1)	True	Found	%R (1)	Found	%R (1)	
Aluminum				25000	25200.000	100.8			P
Antimony				500	525.000	105.0			P
Arsenic				500	527.000	105.4			P
Barium				500	526.000	105.2			P
Beryllium				500	514.000	102.8			P
Cadmium				500	521.000	104.2			P
Calcium				25000	25100.000	100.4			P
Chromium				500	520.000	104.0			P
Cobalt				500	528.000	105.6			P
Copper				500	495.000	99.0			P
Iron				40000	41600.000	104.0			P
Lead				500	527.000	105.4			P
Magnesium				25000	25200.000	100.8			P
Manganese				500	514.000	102.8			P
Mercury									CV
Nickel				500	525.000	105.0			P
Potassium				25000	25500.000	102.0			P
Selenium				500	504.000	100.8			P
Silver				500	522.000	104.4			P
Sodium				25000	25500.000	102.0			P
Thallium									F
Thallium				500	530.000	106.0			P
Vanadium				500	533.000	106.6			P
Zinc				500	541.000	108.2			P

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No. SAS No: SDG No.: 3505843

ICV IDs:

CCV1 IDs: P= CCV1076886

CCV2 IDs:

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. SAS No: SDG No.: 3505843

Initial Calibration Source: 45433

Continuing Calibration Source: 45624

Concentration Units: (ug/L)

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R (1)	True	Found	%R (1)	Found	%R (1)	
Aluminum									P
Antimony									P
Arsenic									P
Barium									P
Beryllium									P
Cadmium									P
Calcium	40000	39100.000	97.8	25000	25100.000	100.4	25100.000	100.4	P
Chromium									P
Cobalt									P
Copper									P
Iron	40000	39600.000	99.0	40000	40800.000	102.0	41000.000	102.5	P
Lead									P
Magnesium									P
Manganese	400	411.000	102.8	500	511.000	102.2	521.000	104.2	P
Mercury									CV
Nickel									P
Potassium									P
Selenium									P
Silver									P
Sodium									P
Thallium									P
Thallium									F
Vanadium									P
Zinc									P

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No. SAS No: SDG No.: 3505843

ICV IDs: P= ICV1079010

CCV1 IDs: P= CCV1079015

CCV2 IDs: P= CCV1079027

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

110512 1916

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. SAS No: SDG No.: 3505843

Initial Calibration Source:

Continuing Calibration Source: 45624

Concentration Units: (ug/L)

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R (1)	True	Found	%R (1)	Found	%R (1)	
Aluminum									P
Antimony									P
Arsenic									P
Barium									P
Beryllium									P
Cadmium									P
Calcium				25000	24900.000	99.6	24600.000	98.4	P
Chromium									P
Cobalt									P
Copper									P
Iron				40000	40800.000	102.0	40400.000	101.0	P
Lead									P
Magnesium									P
Manganese				500	517.000	103.4	512.000	102.4	P
Mercury									CV
Nickel									P
Potassium									P
Selenium									P
Silver									P
Sodium									P
Thallium									F
Thallium									P
Vanadium									P
Zinc									P

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No. SAS No: SDG No.: 3505843

ICV IDs:

CCV1 IDs: P= CCV1079028

CCV2 IDs: P= CCV1079041

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. SAS No: SDG No.: 3505843

Initial Calibration Source:

Continuing Calibration Source: 45624

Concentration Units: (ug/L)

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R (1)	True	Found	%R (1)	Found	%R (1)	
Aluminum									P
Antimony									P
Arsenic									P
Barium									P
Beryllium									P
Cadmium									P
Calcium				25000	24600.000	98.4	24400.000	97.6	P
Chromium									P
Cobalt									P
Copper									P
Iron				40000	40500.000	101.2	40300.000	100.8	P
Lead									P
Magnesium									P
Manganese				500	515.000	103.0	517.000	103.4	P
Mercury									CV
Nickel									P
Potassium									P
Selenium									P
Silver									P
Sodium									P
Thallium									F
Thallium									P
Vanadium									P
Zinc									P

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No. SAS No: SDG No.: 3505843

ICV IDs:

CCV1 IDs: P= CCV1079042

CCV2 IDs: P= CCV1079053

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

110512 1916

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. SAS No: SDG No.: 3505843

Initial Calibration Source:

Continuing Calibration Source: 45624

Concentration Units: (ug/L)

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R (1)	True	Found	%R (1)	Found	%R (1)	
Aluminum									P
Antimony									P
Arsenic									P
Barium									P
Beryllium									P
Cadmium									P
Calcium				25000	24600.000	98.4	24800.000	99.2	P
Chromium									P
Cobalt									P
Copper									P
Iron				40000	40500.000	101.2	41200.000	103.0	P
Lead									P
Magnesium									P
Manganese				500	519.000	103.8	521.000	104.2	P
Mercury									CV
Nickel									P
Potassium									P
Selenium									P
Silver									P
Sodium									P
Thallium									F
Thallium									P
Vanadium									P
Zinc									P

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

110512 1916

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No. SAS No: SDG No.: 3505843

ICV IDs:

CCV1 IDs: P= CCV1079054

CCV2 IDs: P= CCV1079067

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

110512 1916

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. SAS No: SDG No.: 3505843

Initial Calibration Source: 45433

Continuing Calibration Source: 45624

Concentration Units: (ug/L)

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R (1)	True	Found	%R (1)	Found	%R (1)	
Aluminum									P
Antimony									P
Arsenic									P
Barium									P
Beryllium									P
Cadmium									P
Calcium									P
Chromium									P
Cobalt									P
Copper	400	415.000	103.8	500	488.000	97.6	490.000	98.0	P
Iron									P
Lead									P
Magnesium									P
Manganese	400	423.000	105.8	500	504.000	100.8	504.000	100.8	P
Mercury									CV
Nickel									P
Potassium									P
Selenium									P
Silver									P
Sodium									P
Thallium									F
Thallium									P
Vanadium									P
Zinc									P

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

110512 1916

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No. SAS No: SDG No.: 3505843

ICV IDs: P= ICV1079257

CCV1 IDs: P= CCV1079262

CCV2 IDs: P= CCV1079274

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

110512 1916

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2B

CRDL STANDARD FOR AA AND ICP

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Cre
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

AA CRDL Standard Source:

ICP CRDL Standard Source: 45319

Concentration Units: UG/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial			Final	
				True	Found	%R	Found	%R
Aluminum				200	217.36	108.7		
Antimony				50	49.51	99.0		
Arsenic				30	30.44	101.5		
Barium				10	10.08	100.8		
Beryllium				4	4.01	100.2		
Cadmium				5	4.97	99.3		
Calcium				1000	997.40	99.7		
Chromium				10	10.09	100.8		
Cobalt				10	10.13	101.3		
Copper				10	10.04	100.3		
Iron				50	73.51	147.0		
Lead				25	23.78	95.1		
Magnesium				1000	990.72	99.1		
Manganese				10	10.39	103.9		
Mercury								
Nickel				20	20.15	100.8		
Potassium				1000	936.14	93.6		
Selenium				30	33.19	110.6		
Silver				10	9.64	96.4		
Sodium				1000	993.76	99.4		
Thallium				60				
Vanadium				10	10.10	101.0		
Zinc				20	21.83	109.2		

Control Limits: No limits have been established by EPA at this time

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3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392

Lab Code : PEL Case No. SAS No: SDG No.: 3505843

Preparation Blank Matrix (water/soil): SOIL

Preparation Blank Concentration Units (ug/L or mg/Kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	C	C	C	C	C	C	C		
Aluminum	23.2	J	21.6	J	10.2	J			1.69	U	P
Antimony	3.3	U	3.3	U	3.3	U			0.213	U	P
Arsenic	3.31	U	3.31	U	3.31	U			0.444	U	P
Barium	0.245	J	0.22	U	0.22	U			0.142	U	P
Beryllium	0.305	J	0.215	J	0.2	J			0.142	U	P
Cadmium	0.72	U	0.72	U	0.72	U			0.0444	U	P
Calcium	39	U	39	U	39	U			2.93	U	P
Chromium	0.43	U	0.43	U	0.43	U			0.142	U	P
Cobalt	0.409	J	0.37	U	0.37	U			0.0444	U	P
Copper	2.7	U	2.7	U	2.7	U			0.224	J	P
Iron	23	J	27.3	J	8.24	J			2.44	J	P
Lead	3.7	U	3.7	U	3.7	U			0.302	U	P
Magnesium	13.2	J	20.5	J	9.8	U			2.58	U	P
Manganese	0.35	U	0.35	U	0.35	U			0.142	U	P
Mercury	0.037	U	0.037	U	-0.0383	J	0.037	U	0.00348	U	CV
Nickel	0.93	U	0.93	U	0.93	U			0.142	U	P
Potassium	71.7	U	71.7	U	71.7	U			4.44	U	P
Selenium	4.1	U	4.1	U	6.92	J			0.355	U	P
Silver	0.52	U	0.52	U	0.52	U			0.142	U	P
Sodium	180	U	180	U	180	U			8.88	U	P
Thallium	0.34	U	0.34	U	0.34	U					F
Thallium									0.302	U	P
Vanadium	0.44	U	0.44	U	0.44	U			0.142	U	P
Zinc	4	U	4	U	4	U			0.293	U	P

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BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No. SAS No: SDG No.: 3505843

ICB IDs: CV= ICB1073865, F= ICB1076479, P= ICB1075515
CCB1 IDs: CV= CCB1073867, F= CCB1076482, P= CCB1075520
CCB2 IDs: CV= CCB1073879, F= CCB1076493, P= CCB1075532
CCB3 IDs: CV= CCB1073891

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BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392

Lab Code : PEL Case No. SAS No: SDG No.: 3505843

Preparation Blank Matrix (water/soil): WATER

Preparation Blank Concentration Units (ug/L or mg/Kg): UG/L

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	C	C	C	C	C	C	C		
Aluminum	18.1	J	31.7	J	9.3	U	9.3	U	9.3	U	P
Antimony	3.3	U	3.3	U	3.3	U	3.3	U	3.3	U	P
Arsenic	3.31	U	3.31	U	3.31	U	3.31	U	3.31	U	P
Barium	0.421	J	0.22	U	0.22	U	0.363	J	0.22	U	P
Beryllium	0.336	J	0.224	J	0.12	U	0.13	J	0.12	U	P
Cadmium	0.72	U	0.72	U	0.72	U	0.72	U	0.72	U	P
Calcium	39	U	39	U	39	U	57.2	J	65	J	P
Chromium	0.43	U	0.43	U	0.43	U	0.43	U	0.457	J	P
Cobalt	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	P
Copper	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U	P
Iron	29.8	J	35.4	J	5.5	U	54.6	=	8.27	J	P
Lead	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	P
Magnesium	17.5	J	26.6	J	9.8	U	9.8	U	9.8	U	P
Manganese	0.35	U	0.35	U	0.35	U	0.45	J			P
Mercury	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	CV
Nickel	1.29	J	0.93	U	0.93	U	0.93	U	0.93	U	P
Potassium	71.7	U	71.7	U	71.7	U	71.7	U	71.7	U	P
Selenium	4.1	U	4.1	U	4.61	J	4.94	J	4.1	U	P
Silver	0.56	J	0.646	J	0.52	U	0.52	U	0.52	U	P
Sodium	180	U	180	U	180	U	180	U	180	U	P
Thallium	3.828	U	3.828	U	3.828	U	3.828	U			P
Thallium									0.34	U	F
Vanadium	0.44	U	0.44	U	0.44	U	0.44	U	0.44	U	P
Zinc	4	U	4	U	4	U	7.45	J	4	U	P

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BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No. SAS No: SDG No.: 3505843

ICB IDs: CV= ICB1074257, P= ICB1076626
CCB1 IDs: CV= CCB1074259, P= CCB1076631
CCB2 IDs: CV= CCB1074271, P= CCB1076643
CCB3 IDs: CV= CCB1074283, P= CCB1076655

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BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392

Lab Code : PEL Case No. SAS No: SDG No.: 3505843

Preparation Blank Matrix (water/soil): WATER

Preparation Blank Concentration Units (ug/L or mg/Kg): UG/L

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	C		C		C	C	C		
Aluminum			9.3	U	16.4	J	25.7	J			P
Antimony			3.3	U	3.3	U	3.3	U			P
Arsenic			-3.67	J	3.31	U	3.31	U			P
Barium			0.22	U	0.22	U	0.344	J			P
Beryllium			0.12	U	0.135	J	0.238	J			P
Cadmium			0.72	U	0.72	U	0.72	U			P
Calcium			39	U	39	U	57.3	J			P
Chromium			0.43	U	0.43	U	0.43	U			P
Cobalt			0.37	U	0.37	U	0.37	U			P
Copper			2.7	U	2.7	U	2.7	U			P
Iron			26	J	14.9	J	78	=	5.5	U	P
Lead			3.7	U	3.7	U	3.7	U			P
Magnesium			9.8	U	9.8	U	20.9	J			P
Manganese			0.35	U	0.35	U	0.982	J			P
Mercury			0.037	U	0.037	U					CV
Nickel			0.93	U	0.93	U	0.93	U			P
Potassium			71.7	U	71.7	U	71.7	U			P
Selenium			4.1	U	4.1	U	5.89	J			P
Silver			0.52	U	0.52	U	0.52	U			P
Sodium			180	U	180	U	180	U			P
Thallium											F
Thallium			3.89	J	3.828	U	3.828	U			P
Vanadium			0.44	U	0.44	U	0.44	U			P
Zinc			5.93	J	4	U	4	U			P

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BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No. SAS No: SDG No.: 3505843

ICB IDs:

CCB1 IDs: CV= CCB1074295, P= CCB1076656

CCB2 IDs: CV= CCB1074307, P= CCB1076668

CCB3 IDs: P= CCB1076861

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BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. SAS No: SDG No.: 3505843

Preparation Blank Matrix (water/soil):

Preparation Blank Concentration Units (ug/L or mg/Kg):

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)				Preparation Blank		M	
	C		C	C	C	C	C			
Aluminum			13.9	J	21.4	J	19.2	J		P
Antimony			3.3	U	3.3	U	3.3	U		P
Arsenic			3.31	U	3.31	U	3.31	U		P
Barium			0.22	U	0.22	U	0.22	U		P
Beryllium			0.166	J	0.209	J	0.159	J		P
Cadmium			0.72	U	0.72	U	0.72	U		P
Calcium			39	U	39	U	39	U		P
Chromium			0.43	U	0.43	U	0.43	U		P
Cobalt			0.37	U	0.37	U	0.37	U		P
Copper			2.7	U	2.7	U	2.7	U		P
Iron			44.2	J	79.7	=	32.7	J		P
Lead			3.7	U	3.7	U	3.7	U		P
Magnesium			11.2	J	15.7	J	9.8	U		P
Manganese			0.449	J	0.823	J	0.35	U		P
Mercury										CV
Nickel			0.93	U	0.93	U	0.93	U		P
Potassium			71.7	U	71.7	U	71.7	U		P
Selenium			4.1	U	4.1	U	4.1	U		P
Silver			0.52	U	0.52	U	0.52	U		P
Sodium			180	U	180	U	180	U		P
Thallium										F
Thallium			3.828	U	3.828	U	3.828	U		P
Vanadium			0.44	U	0.44	U	0.44	U		P
Zinc			4	U	4	U	4	U		P

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BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No. SAS No: SDG No.: 3505843

ICB IDs:

CCB1 IDs: P= CCB1076862

CCB2 IDs: P= CCB1076874

CCB3 IDs: P= CCB1076887

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BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392

Lab Code : PEL Case No. SAS No: SDG No.: 3505843

Preparation Blank Matrix (water/soil):

Preparation Blank Concentration Units (ug/L or mg/Kg):

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	C	C	C	C	C	C	C		
Aluminum											P
Antimony											P
Arsenic											P
Barium											P
Beryllium											P
Cadmium											P
Calcium	39	U	39	U	39	U	39	U			P
Chromium											P
Cobalt											P
Copper											P
Iron	5.5	U	10.8	J	29	J	11.3	J			P
Lead											P
Magnesium											P
Manganese	-0.747	J	-0.821	J	-0.474	J	-0.615	J			P
Mercury											CV
Nickel											P
Potassium											P
Selenium											P
Silver											P
Sodium											P
Thallium											F
Thallium											P
Vanadium											P
Zinc											P

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BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No. SAS No: SDG No.: 3505843

ICB IDs: P= ICB1079011
CCB1 IDs: P= CCB1079016
CCB2 IDs: P= CCB1079029
CCB3 IDs: P= CCB1079030

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BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392

Lab Code : PEL Case No. SAS No: SDG No.: 3505843

Preparation Blank Matrix (water/soil):

Preparation Blank Concentration Units (ug/L or mg/Kg):

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)				Preparation Blank		M
		C	C	C	C	C	C		
Aluminum									P
Antimony									P
Arsenic									P
Barium									P
Beryllium									P
Cadmium									P
Calcium			39	U	39	U	39	U	P
Chromium									P
Cobalt									P
Copper									P
Iron			18.6	J	11.8	J	5.5	U	P
Lead									P
Magnesium									P
Manganese			-0.462	J	-0.586	J	-0.712	J	P
Mercury									CV
Nickel									P
Potassium									P
Selenium									P
Silver									P
Sodium									P
Thallium									P
Thallium									F
Vanadium									P
Zinc									P

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BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No. SAS No: SDG No.: 3505843

ICB IDs:

CCB1 IDs: P= CCB1079043

CCB2 IDs: P= CCB1079055

CCB3 IDs: P= CCB1079056

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BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392

Lab Code : PEL Case No. SAS No: SDG No.: 3505843

Preparation Blank Matrix (water/soil):

Preparation Blank Concentration Units (ug/L or mg/Kg):

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)				Preparation Blank		M
		C	C	C	C	C	C		
Aluminum									P
Antimony									P
Arsenic									P
Barium									P
Beryllium									P
Cadmium									P
Calcium			39	U					P
Chromium									P
Cobalt									P
Copper									P
Iron			11.4	J					P
Lead									P
Magnesium									P
Manganese			-0.739	J					P
Mercury									CV
Nickel									P
Potassium									P
Selenium									P
Silver									P
Sodium									P
Thallium									P
Thallium									F
Vanadium									P
Zinc									P

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BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No. SAS No: SDG No.: 3505843

ICB IDs:

CCB1 IDs: P= CCB1079069

CCB2 IDs:

CCB3 IDs:

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BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No. SAS No: SDG No.: 3505843

Preparation Blank Matrix (water/soil):

Preparation Blank Concentration Units (ug/L or mg/Kg):

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)				Preparation Blank		M
		C	C	C	C	C	C		
Aluminum									P
Antimony									P
Arsenic									P
Barium									P
Beryllium									P
Cadmium									P
Calcium									P
Chromium									P
Cobalt									P
Copper	2.7	U	2.7	U	2.7	U			P
Iron									P
Lead									P
Magnesium									P
Manganese	0.35	U	0.35	U	0.35	U			P
Mercury									CV
Nickel									P
Potassium									P
Selenium									P
Silver									P
Sodium									P
Thallium									P
Thallium									F
Vanadium									P
Zinc									P

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BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No. SAS No: SDG No.: 3505843

ICB IDs: P= ICB1079258
CCB1 IDs: P= CCB1079263
CCB2 IDs: P= CCB1079275
CCB3 IDs:

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ICP INTERFERENCE CHECK SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

ICP ID#: ICAP2 ICSA Source: 45241
 ICSAB Source: 45248

Concentration Units: UG/L

Analyte	True		Initial Found			Final Found		
	Sol.	Sol.	Sol.	Sol.	%R	Sol.	Sol.	%R
	A	AB	A	AB		A	AB	
Aluminum	250000	250000	265555.857	256712.983	102.7			
Antimony	0	600	3.529	640.479	106.7			
Arsenic	0	100	-4.466	116.188	116.2			
Barium	0	500	-0.043	512.607	102.5			
Beryllium	0	500	0.067	539.916	108.0			
Cadmium	0	1000	-0.039	973.112	97.3			
Calcium	250000	250000	257892.026	249811.09	99.9			
Chromium	0	500	-0.087	509.898	102.0			
Cobalt	0	500	-0.116	492.406	98.5			
Copper	0	500	0.146	530.575	106.1			
Iron	225000	225000	225205.714	217911.265	96.8			
Lead	0	50	-2.567	47.439	94.9			
Magnesium	250000	250000	260693.794	252397.618	101.0			
Manganese	0	500	0.58	510.098	102.0			
Nickel	0	1000	1.024	1002.99	100.3			
Potassium	0	0	-69.275					
Selenium	0	50	-2.161	59.553	119.1			
Silver	0	200	-0.067	204.172	102.1			
Sodium	0	0	19.104					
Thallium	0	100	0.896	95.728	95.7			
Vanadium	0	500	-0.047	524.715	104.9			
Zinc	0	1000	4.715	995.074	99.5			

ICSA: ICS1075517

ICSAB: ICS1075518

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ICP INTERFERENCE CHECK SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

ICP ID#: ICAP2 ICSA Source: 45241
 ICSAB Source: 45248

Concentration Units: UG/L

Analyte	True		Initial Found			Final Found		
	Sol.	Sol.	Sol.	Sol.	%R	Sol.	Sol.	%R
	A	AB	A	AB		A	AB	
Aluminum	250000	250000	261584.108	257884.506	103.2			
Antimony	0	600	0.501	613.197	102.2			
Arsenic	0	100	-0.081	106.305	106.3			
Barium	0	500	-0.001	491.846	98.4			
Beryllium	0	500	-0.115	525.015	105.0			
Cadmium	0	1000	-0.034	956.934	95.7			
Calcium	250000	250000	251916.136	248307.477	99.3			
Chromium	0	500	0.612	485.535	97.1			
Cobalt	0	500	-0.106	478.638	95.7			
Copper	0	500	0.012	510.995	102.2			
Iron	225000	225000	220856.586	217414.063	96.6			
Lead	0	50	-0.17	47.728	95.5			
Magnesium	250000	250000	255767.473	252231.656	100.9			
Manganese	0	500	-0.01	495.212	99.0			
Nickel	0	1000	-0.442	963.653	96.4			
Potassium	0	0	-90.345					
Selenium	0	50	2.665	58.651	117.3			
Silver	0	200	-0.003	198.679	99.3			
Sodium	0	0	23.081					
Thallium	0	100	3.636	94.986	95.0			
Vanadium	0	500	-0.075	504.131	100.8			
Zinc	0	1000	3.556	962.168	96.2			

ICSA: ICS1076628

ICSAB: ICS1076629

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ICP INTERFERENCE CHECK SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 ICP ID#: ICAP2 ICSA Source: 45241
 ICSAB Source: 45248

Concentration Units: UG/L

Analyte	True		Initial Found			Final Found		
	Sol.	Sol.	Sol.	Sol.	%R	Sol.	Sol.	%R
	A	AB	A	AB		A	AB	
Aluminum	250000	250000	189086.63	191550.163	76.6			
Antimony	0	600	-1.346	615.079	102.5			
Arsenic	0	100	2.345	101.47	101.5			
Barium	0	500	0.333	488.997	97.8			
Beryllium	0	500	-0.1	524.552	104.9			
Cadmium	0	1000	0.205	951.505	95.2			
Calcium	250000	250000	242909.232	244632.331	97.9			
Chromium	0	500	-0.92	498.067	99.6			
Cobalt	0	500	-0.284	473.434	94.7			
Copper	0	500	-5.171	516.222	103.2			
Iron	225000	225000	212993.875	215153.439	95.6			
Lead	0	50	-2.53	44.118	88.2			
Magnesium	250000	250000	245090.269	246827.408	98.7			
Manganese	0	500	-0.119	505.031	101.0			
Nickel	0	1000	-0.467	962.553	96.3			
Potassium	0	0	5.076					
Selenium	0	50	-7.389	46.524	93.0			
Silver	0	200	-0.282	201.017	100.5			
Sodium	0	0	8.661					
Thallium	0	100	0.884	98.995	99.0			
Vanadium	0	500	0.064	501.197	100.2			
Zinc	0	1000	-7.294	969.418	96.9			

ICSA: ICS1079013

ICSAB: ICS1079014

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ICP INTERFERENCE CHECK SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 ICP ID#: ICAP2 ICSA Source: 45241
 ICSAB Source: 45248

Concentration Units: UG/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	250000	250000	253993.819	249803.783	99.9			
Antimony	0	600	-0.103	583.253	97.2			
Arsenic	0	100	3.472	101.279	101.3			
Barium	0	500	-1.989	484.818	97.0			
Beryllium	0	500	-0.106	517.529	103.5			
Cadmium	0	1000	1.084	930.107	93.0			
Calcium	250000	250000	245249.264	242907.434	97.2			
Chromium	0	500	-0.652	483.789	96.8			
Cobalt	0	500	-0.468	462.304	92.5			
Copper	0	500	-6.014	506.555	101.3			
Iron	225000	225000	214195.311	211176.96	93.9			
Lead	0	50	-2.652	47.789	95.6			
Magnesium	250000	250000	247210.206	243254.788	97.3			
Manganese	0	500	0.489	491.253	98.3			
Nickel	0	1000	-1.691	934.01	93.4			
Potassium	0	0	16.801					
Selenium	0	50	-6.9	43.145	86.3			
Silver	0	200	0.785	199.029	99.5			
Sodium	0	0	3.898					
Thallium	0	100	-4.708	90.927	90.9			
Vanadium	0	500	0.011	492.727	98.5			
Zinc	0	1000	0.106	941.653	94.2			

ICSA: ICS1079260

ICSAB: ICS1079261

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

EPAFMC-SD-07MS

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL

Level:(low/med) LOW

% Solids for Sample: 75.5

Concentration Units (mg/L or mg/kg): mg/Kg

Analyte	Control Limit %R	Spiked Sample		Sample Result (SR)		Spike Added (SA)	%R	Q	M
			C		C				
Aluminum	75 - 125	10600		5010		4050	138	N	P
Antimony	75 - 125	36.1		0.660	J	40.5	87.5		P
Arsenic	75 - 125	60.4		18.1		40.5	104.4		P
Barium	75 - 125	172		37.2		121	111.4		P
Beryllium	75 - 125	44.4		0.399	J	40.5	108.6		P
Cadmium	75 - 125	37.6		8.64		40.5	71.5	N	P
Calcium	-								NR
Chromium	75 - 125	90.7		63.3		40.5	67.7	N	P
Cobalt	75 - 125	45.5		6.50		40.5	96.3		P
Copper	75 - 125	55.0		9.28		40.5	112.9		P
Iron	-								NR
Lead	75 - 125	57.9		21.7		40.5	89.4		P
Magnesium	75 - 125	14100		5340		4050	216.3	N	P
Manganese	-								NR
Mercury	80 - 120	0.352		0.0156	J	0.348	96.7		CV
Nickel	75 - 125	46.1		9.53		40.5	90.3		P
Potassium	75 - 125	5010		298		4050	116.3		P
Selenium	75 - 125	39.9		0.353	U	40.5	98.5		P
Silver	75 - 125	17.0		0.141	U	16.2	104.9		P
Sodium	75 - 125	4640		67.4		4050	112.9		P
Thallium	-								NR
Thallium	75 - 125	37.2		0.531	J	40.5	90.5		P
Vanadium	75 - 125	88.6		58.8		40.5	73.6	N	P
Zinc	75 - 125	146		142		40.5	9.9	N	P

Comments:

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

EPAFMC-SD-07SD

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Level:(low/med) LOW

% Solids for Sample: 75.5

Concentration Units (mg/L or mg/kg): mg/Kg

Analyte	Control Limit %R	Spiked Sample		Sample Result (SR)		Spike Added (SA)	%R	Q	M
			C		C				
Aluminum	75 - 125	11100		5010		4080	149.3	N	P
Antimony	75 - 125	35.9		0.660	J	40.8	86.4		P
Arsenic	75 - 125	51.2		18.1		40.8	81.1		P
Barium	75 - 125	155		37.2		122	96.6		P
Beryllium	75 - 125	43.6		0.399	J	40.8	105.9		P
Cadmium	75 - 125	39.4		8.64		40.8	75.4		P
Calcium	-								NR
Chromium	75 - 125	115		63.3		40.8	126.7	N	P
Cobalt	75 - 125	48.9		6.50		40.8	103.9		P
Copper	75 - 125	60.3		9.28		40.8	125		P
Iron	-								NR
Lead	75 - 125	60.1		21.7		40.8	94.1		P
Magnesium	75 - 125	11400		5340		4080	148.5	N	P
Manganese	-								NR
Mercury	80 - 120	0.353		0.0156	J	0.371	90.9		CV
Nickel	75 - 125	48.8		9.53		40.8	96.2		P
Potassium	75 - 125	4780		298		4080	109.9		P
Selenium	75 - 125	28.4		0.353	U	40.8	69.6	N	P
Silver	75 - 125	16.7		0.141	U	16.3	102.5		P
Sodium	75 - 125	4500		67.4		4080	108.6		P
Thallium	-								NR
Thallium	75 - 125	39.0		0.531	J	40.8	94.3		P
Vanadium	75 - 125	94.6		58.8		40.8	87.7		P
Zinc	75 - 125	165		142		40.8	56.4	N	P

Comments:

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

350581602A

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: Water Level:(low/med) LOW

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Control Limit %R	Spiked Sample		Sample Result (SR)		Spike Added (SA)	%R	Q	M
			C		C				
Mercury	80 - 120	3.07		0.03	U	3	102.3		CV

Comments:

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

350584301A

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: Soil Level:(low/med) LOW

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Control Limit %R	Spiked Sample		Sample Result (SR)		Spike Added (SA)	%R	Q	M
			C		C				
Aluminum	80 - 120	106000.00		56796.87		50000	99.2		P
Antimony	80 - 120	511.00		7.49	J	500	100.8		P
Arsenic	80 - 120	727.00		205.34		500	104.3		P
Barium	80 - 120	1910.00		421.47		1500	99.5		P
Beryllium	80 - 120	543.00		4.53	J	500	107.7		P
Cadmium	80 - 120	595.00		98.01		500	99.3		P
Chromium	80 - 120	1190.00		718.03		500	94.9		P
Cobalt	80 - 120	574.00		73.72		500	100.0		P
Copper	80 - 120	639.00		105.21		500	106.8		P
Lead	80 - 120	732.00		245.68		500	97.4		P
Magnesium	80 - 120	106000.00		60582.44		50000	90.3		P
Mercury	-	2.98		0.13	J	3	95.0		CV
Nickel	80 - 120	609.00		108.04		500	100.2		P
Potassium	80 - 120	57500.00		3385.45		50000	108.2		P
Selenium	80 - 120	468.00			U	500	93.5		P
Silver	80 - 120	207.00			U	200	103.6		P
Sodium	80 - 120	53900.00		764.20		50000	106.3		P
Vanadium	80 - 120	1180.00		666.49		500	102.6		P
Zinc	80 - 120	2010.00		1608.45		500	80.0		P

Comments:

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

350584301ADL1

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: Soil Level:(low/med) LOW

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Control Limit %R	Spiked Sample		Sample Result (SR)		Spike Added (SA)	%R	Q	M
			C		C				
Calcium	80 - 120	427000.00		176391.53		250000	100.4		P
Iron	80 - 120	632000.00		392907.01		250000	95.8		P
Manganese	80 - 120	7430.00		4782.49		2500	106.0		P

Comments:

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

350584313A

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: Water Level:(low/med) LOW

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Control Limit %R	Spiked Sample		Sample Result (SR)		Spike Added (SA)	%R	Q	M
			C		C				
Aluminum	80 - 120	51100.00		64.53	J	50000	102.2		P
Antimony	80 - 120	481.00		0.00	U	500	96.3		P
Arsenic	80 - 120	536.00		7.06	J	500	105.7		P
Barium	80 - 120	1560.00		32.06		1500	101.9		P
Beryllium	80 - 120	546.00		0.06	U	500	109.2		P
Cadmium	80 - 120	504.00		0.56	U	500	100.7		P
Calcium	80 - 120	93500.00		44317.51		50000	98.3		P
Chromium	80 - 120	522.00		0.90	J	500	104.1		P
Cobalt	80 - 120	512.00		0.09	U	500	102.4		P
Copper	80 - 120	524.00		2.19	U	500	104.7		P
Iron	80 - 120	51000.00		102.06		50000	101.8		P
Lead	80 - 120	529.00		0.88	U	500	105.7		P
Magnesium	80 - 120	70200.00		20396.89		50000	99.7		P
Manganese	80 - 120	561.00		33.92		500	105.4		P
Nickel	80 - 120	521.00		-0.51	U	500	104.1		P
Potassium	80 - 120	53700.00		1131.69		50000	105.1		P
Selenium	80 - 120	527.00		-3.50	U	500	105.5		P
Silver	80 - 120	202.00		-0.27	U	200	100.9		P
Sodium	80 - 120	76400.00		26007.13		50000	100.9		P
Thallium	80 - 120	13.60		0.51	J	12.5	104.5		F
Vanadium	80 - 120	534.00		0.57	J	500	106.8		P
Zinc	80 - 120	526.00		4.23	J	500	104.4		P

Comments:

U.S. EPA - CLP

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DUPLICATES

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

127645LCSD

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: WATER Level:(low/med) LOW

% Solids for Sample: 0 % Solids for Duplicate: 0

Concentration Units (mg/L or mg/kg): ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Mercury	20	2.97		2.98		0.3		CV

Comments:

110512 1916

U.S. EPA - CLP

6

DUPLICATES

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

127831LCSD

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Level:(low/med) LOW

% Solids for Sample: 100 % Solids for Duplicate: 100

Concentration Units (mg/L or mg/kg): mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	20	4380		4380		0.0		P
Antimony	20	44.9		45.2		0.7		P
Arsenic	20	45.2		45.4		0.4		P
Barium	20	133		132		0.8		P
Beryllium	20	44.6		44.8		0.4		P
Cadmium	20	43.4		43.7		0.7		P
Calcium	20	4370		4360		0.2		P
Chromium	20	44.6		44.3		0.7		P
Cobalt	20	44.2		44		0.5		P
Copper	20	43.7		43.8		0.2		P
Iron	20	4450		4430		0.5		P
Lead	20	44.8		44.8		0.0		P
Magnesium	20	4310		4280		0.7		P
Manganese	20	45.8		44.7		2.4		P
Nickel	20	44.2		44.4		0.5		P
Potassium	20	4450		4450		0.0		P
Selenium	20	42.2		42.6		0.9		P
Silver	20	17.5		17.3		1.1		P
Sodium	20	4440		4420		0.5		P
Thallium	20	43.9		43.9		0.0		P
Vanadium	20	46.8		46.3		1.1		P
Zinc	20	45		45.5		1.1		P

Comments:

110512 1916

U.S. EPA - CLP

6

DUPLICATES

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

127864LCSD

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: WATER Level:(low/med) LOW

% Solids for Sample: 0 % Solids for Duplicate: 0

Concentration Units (mg/L or mg/kg): ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Thallium	25	24.9		24.5		1.6		F

Comments:

U.S. EPA - CLP

6

DUPLICATES

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

127986LCSD

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Level:(low/med) LOW

% Solids for Sample: 100 % Solids for Duplicate: 100

Concentration Units (mg/L or mg/kg): mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Mercury	20	0.255		0.29		12.8		CV

Comments:

110512 1916

U.S. EPA - CLP

6

DUPLICATES

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

128301LCSD

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: WATER Level:(low/med) LOW

% Solids for Sample: 0 % Solids for Duplicate: 0

Concentration Units (mg/L or mg/kg): ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	20	50700		51000		0.6		P
Antimony	20	509		513		0.8		P
Arsenic	20	520		526		1.1		P
Barium	20	1510		1530		1.3		P
Beryllium	20	521		528		1.3		P
Cadmium	20	497		498		0.2		P
Calcium	20	50800		51000		0.4		P
Chromium	20	502		509		1.4		P
Cobalt	20	496		503		1.4		P
Copper	20	504		508		0.8		P
Iron	20	50900		51100		0.4		P
Lead	20	518		522		0.8		P
Magnesium	20	50300		50700		0.8		P
Manganese	20	513		518		1.0		P
Nickel	20	510		512		0.4		P
Potassium	20	51900		52200		0.6		P
Selenium	20	510		518		1.6		P
Silver	20	193		193		0.0		P
Sodium	20	50600		50900		0.6		P
Vanadium	20	517		519		0.4		P
Zinc	20	510		518		1.6		P

Comments:

110512 1916

U.S. EPA - CLP

6

DUPLICATES

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

EPAFMC-SD-07SD

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Level:(low/med) LOW

% Solids for Sample: 75.5 % Solids for Duplicate: 75.5

Concentration Units (mg/L or mg/kg): mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	20	10600		11100		4.6		P
Antimony	20	36.1		35.9		0.6		P
Arsenic	20	60.4		51.2		16.5		P
Barium	20	172		155		10.4		P
Beryllium	20	44.4		43.6		1.8		P
Cadmium	20	37.6		39.4		4.7		P
Chromium	20	90.7		115		23.6	*	P
Cobalt	20	45.5		48.9		7.2		P
Copper	20	55		60.3		9.2		P
Lead	20	57.9		60.1		3.7		P
Magnesium	20	14100		11400		21.2	*	P
Mercury	20	0.352		0.353		0.3		CV
Nickel	20	46.1		48.8		5.7		P
Potassium	20	5010		4780		4.7		P
Selenium	20	39.9		28.4		33.7	*	P
Silver	20	17		16.7		1.8		P
Sodium	20	4640		4500		3.1		P
Thallium	20	37.2		39		4.7		P
Vanadium	20	88.6		94.6		6.6		P
Zinc	20	146		165		12.2		P

Comments:

110512 1916

U.S. EPA - CLP

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LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

127644LCS

Lab Code : PEL Case No.: SAS No: SDG No.: 3505843

Solid LCS Source:

Aqueous LCS Source: 45799

Analyte	Aqueous (ug/L)			Solid				
	True	Found	%R	True	Found	C	Limits	%R
Mercury	3	2.97	99.0				-	

U.S. EPA - CLP

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LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

127645LCSD

Lab Code : PEL Case No.: SAS No: SDG No.: 3505843

Solid LCS Source:

Aqueous LCS Source: 45799

Analyte	Aqueous (ug/L)			Solid				
	True	Found	%R	True	Found	C	Limits	%R
Mercury	3	2.98	99.3				-	

U.S. EPA - CLP

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LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

127830LCS

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Solid LCS Source: 45535, 45139, 45964,

Aqueous LCS Source:

Analyte	Aqueous			Solid (mg/Kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum				4500	4380		80 - 120	97.3
Antimony				45	44.9		80 - 120	99.8
Arsenic				45	45.2		80 - 120	100.4
Barium				135	133		80 - 120	98.5
Beryllium				45	44.6		80 - 120	99.1
Cadmium				45	43.4		80 - 120	96.4
Calcium				4500	4370		80 - 120	97.1
Chromium				45	44.6		80 - 120	99.1
Cobalt				45	44.2		80 - 120	98.2
Copper				45	43.7		80 - 120	97.1
Iron				4500	4450		80 - 120	98.9
Lead				45	44.8		80 - 120	99.6
Magnesium				4500	4310		80 - 120	95.8
Manganese				45	45.8		80 - 120	101.8
Nickel				45	44.2		80 - 120	98.2
Potassium				4500	4450		80 - 120	98.9
Selenium				45	42.2		80 - 120	93.8
Silver				18	17.5		80 - 120	97.2
Sodium				4500	4440		80 - 120	98.7
Thallium				45	43.9		80 - 120	97.6
Vanadium				45	46.8		80 - 120	104.0
Zinc				45	45		80 - 120	100.0

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

127831LCSD

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Solid LCS Source: 45535, 45139, 45964,

Aqueous LCS Source:

Analyte	Aqueous			Solid (mg/Kg)					
	True	Found	%R	True	Found	C	Limits		%R
Aluminum				4380	4380		80	- 120	100.0
Antimony				43.8	45.2		80	- 120	103.2
Arsenic				43.8	45.4		80	- 120	103.7
Barium				131	132		80	- 120	100.8
Beryllium				43.8	44.8		80	- 120	102.3
Cadmium				43.8	43.7		80	- 120	99.8
Calcium				4380	4360		80	- 120	99.5
Chromium				43.8	44.3		80	- 120	101.1
Cobalt				43.8	44		80	- 120	100.5
Copper				43.8	43.8		80	- 120	100.0
Iron				4380	4430		80	- 120	101.1
Lead				43.8	44.8		80	- 120	102.3
Magnesium				4380	4280		80	- 120	97.7
Manganese				43.8	44.7		80	- 120	102.1
Nickel				43.8	44.4		80	- 120	101.4
Potassium				4380	4450		80	- 120	101.6
Selenium				43.8	42.6		80	- 120	97.3
Silver				17.5	17.3		80	- 120	98.9
Sodium				4380	4420		80	- 120	100.9
Thallium				43.8	43.9		80	- 120	100.2
Vanadium				43.8	46.3		80	- 120	105.7
Zinc				43.8	45.5		80	- 120	103.9

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

127863LCS

Lab Code : PEL Case No.: SAS No: SDG No.: 3505843

Solid LCS Source:

Aqueous LCS Source: 45139, 45964, 45240

Analyte	Aqueous (ug/L)			Solid				
	True	Found	%R	True	Found	C	Limits	%R
Thallium	25	24.9	99.6				-	

U.S. EPA - CLP

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LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

127864LCSD

Lab Code : PEL Case No.: SAS No: SDG No.: 3505843

Solid LCS Source:

Aqueous LCS Source: 45139, 45964, 45240

Analyte	Aqueous (ug/L)			Solid				
	True	Found	%R	True	Found	C	Limits	%R
Thallium	25	24.5	98.0				-	

U.S. EPA - CLP

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LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

127985LCS

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Solid LCS Source: 45799

Aqueous LCS Source:

Analyte	Aqueous			Solid (mg/Kg)				
	True	Found	%R	True	Found	C	Limits	%R
Mercury				0.293	0.255		80 - 120	87.0

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LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

127986LCSD

Lab Code : PEL Case No.: SAS No: SDG No.: 3505843

Solid LCS Source: 45799

Aqueous LCS Source:

Analyte	Aqueous			Solid (mg/Kg)						
	True	Found	%R	True	Found	C	Limits		%R	
Mercury				0.298	0.29		80	-	120	97.3

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LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

128300LCS

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Solid LCS Source:

Aqueous LCS Source: 45535, 45139, 44322,

Analyte	Aqueous (ug/L)			Solid				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum	50000	50700	101.4				-	
Antimony	500	509	101.8				-	
Arsenic	500	520	104.0				-	
Barium	1500	1510	100.7				-	
Beryllium	500	521	104.2				-	
Cadmium	500	497	99.4				-	
Calcium	50000	50800	101.6				-	
Chromium	500	502	100.4				-	
Cobalt	500	496	99.2				-	
Copper	500	504	100.8				-	
Iron	50000	50900	101.8				-	
Lead	500	518	103.6				-	
Magnesium	50000	50300	100.6				-	
Manganese	500	513	102.6				-	
Nickel	500	510	102.0				-	
Potassium	50000	51900	103.8				-	
Selenium	500	510	102.0				-	
Silver	200	193	96.5				-	
Sodium	50000	50600	101.2				-	
Vanadium	500	517	103.4				-	
Zinc	500	510	102.0				-	

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LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

128301LCSD

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Solid LCS Source:

Aqueous LCS Source: 45535, 45139, 44322,

Analyte	Aqueous (ug/L)			Solid				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum	50000	51000	102.0				-	
Antimony	500	513	102.6				-	
Arsenic	500	526	105.2				-	
Barium	1500	1530	102.0				-	
Beryllium	500	528	105.6				-	
Cadmium	500	498	99.6				-	
Calcium	50000	51000	102.0				-	
Chromium	500	509	101.8				-	
Cobalt	500	503	100.6				-	
Copper	500	508	101.6				-	
Iron	50000	51100	102.2				-	
Lead	500	522	104.4				-	
Magnesium	50000	50700	101.4				-	
Manganese	500	518	103.6				-	
Nickel	500	512	102.4				-	
Potassium	50000	52200	104.4				-	
Selenium	500	518	103.6				-	
Silver	200	193	96.5				-	
Sodium	50000	50900	101.8				-	
Vanadium	500	519	103.8				-	
Zinc	500	518	103.6				-	

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SERIAL DILUTIONS

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13 350581602L

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: Water Level:(low/med) LOW

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.03	U	0.19	U			CV

Comments:

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SERIAL DILUTIONS

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

350584301L

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: Soil

Level:(low/med) LOW

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	M
		C		C			
Aluminum	56796.87		54300.00		4.4		P
Antimony	7.49	J		U			P
Arsenic	205.34		190.00		7.5		P
Barium	421.47		420.00		0.35		P
Beryllium	4.53	J	6.30	J	39		P
Cadmium	98.01		94.40		3.7		P
Chromium	718.03		718.00		0.0040		P
Cobalt	73.72		72.30		1.9		P
Copper	105.21		104.00		1.2		P
Lead	245.68		257.00		4.6		P
Magnesium	60582.44		60500.00		0.14		P
Mercury	0.13	J	0.03	J	72		CV
Nickel	108.04		109.00		0.89		P
Potassium	3385.45		2960.00		12	E	P
Selenium		U		U			P
Silver		U		U			P
Sodium	764.20			U			P
Vanadium	666.49		655.00		1.7		P
Zinc	1608.45		1660.00		3.2		P

Comments:

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9
SERIAL DILUTIONS

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13 350584301LDL1

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: Soil Level:(low/med) LOW

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	M
		C		C			
Calcium	176391.53		177000.00		0.34		P
Iron	392907.01		402000.00		2.3		P
Manganese	4782.49		4840.00		1.2		P

Comments:

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SERIAL DILUTIONS

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

350584313L

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: Water

Level:(low/med) LOW

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	M
		C		C			
Aluminum	64.53	J	158.00	J	140		P
Antimony	0.00	U	16.50	U			P
Arsenic	7.06	J	16.60	U			P
Barium	32.06		32.20	J	0.44		P
Beryllium	0.06	U	0.60	U			P
Cadmium	0.56	U	3.60	U			P
Calcium	44317.51		42900.00		3.2		P
Chromium	0.90	J	2.15	U			P
Cobalt	0.09	U	1.85	U			P
Copper	2.19	U	13.50	U			P
Iron	102.06		184.00	J	80		P
Lead	0.88	U	18.50	U			P
Magnesium	20396.89		20000.00		1.9		P
Manganese	33.92		33.40	J	1.5		P
Nickel	-0.51	U	4.65	U			P
Potassium	1131.69		1280.00	J	13		P
Selenium	-3.50	U	20.50	U			P
Silver	-0.27	U	2.60	U			P
Sodium	26007.13		24800.00		4.6		P
Thallium	0.51	J	1.70	U			F
Vanadium	0.57	J	2.20	U			P
Zinc	4.23	J	20.10	J	370		P

Comments:

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METHOD DETECTION LIMITS

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 ICP ID Number : ICAP2
 Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Raw MDL (UG/L)	CRDL (mg/Kg)	MDL (mg/Kg)	Verification Date	M
Aluminum	308.215	23.864	10	1.9	1/13/2012	P
Antimony	206.836	3.0144	1	0.24	1/13/2012	P
Arsenic	188.979	6.28	1	0.5	1/13/2012	P
Barium	233.527	2.0096	0.5	0.16	1/13/2012	P
Beryllium	234.861	2.0096	0.5	0.16	1/13/2012	P
Cadmium	226.502	0.628	0.5	0.05	1/13/2012	P
Calcium	315.887	41.448	10	3.3	1/13/2012	P
Chromium	267.716	2.0096	0.5	0.16	1/13/2012	P
Cobalt	228.616	0.628	0.5	0.05	1/13/2012	P
Copper	324.752	2.0096	0.5	0.16	1/13/2012	P
Iron	259.939	7.536	5	0.6	1/13/2012	P
Lead	220.353	4.2704	0.8	0.34	1/13/2012	P
Magnesium	279.077	36.424	10	2.9	1/13/2012	P
Manganese	257.61	2.0096	0.5	0.16	1/13/2012	P
Nickel	231.604	2.0096	0.5	0.16	1/13/2012	P
Potassium	766.49	62.8	50	5	1/13/2012	P
Selenium	196.026	5.024	2	0.4	1/13/2012	P
Silver	328.068	2.0096	0.5	0.16	1/13/2012	P
Sodium	589.592	125.6	30	10	1/13/2012	P
Thallium	190.801	4.2704	1	0.34	1/13/2012	P
Vanadium	292.402	2.0096	0.5	0.16	1/13/2012	P
Zinc	206.2	4.1448	1	0.33	1/13/2012	P

Comments:

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METHOD DETECTION LIMITS

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 ICP ID Number : ICAP2
 Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Raw MDL (ug/L)	CRDL (ug/L)	MDL (ug/L)	Verification Date	M
Aluminum	308.215	9.3	100	9.3	1/12/2012	P
Antimony	206.836	3.3	10	3.3	1/12/2012	P
Arsenic	188.979	3.31	10	3.31	1/12/2012	P
Barium	233.527	0.22	10	0.22	1/12/2012	P
Beryllium	234.861	0.12	5	0.12	1/12/2012	P
Cadmium	226.502	0.72	5	0.72	1/12/2012	P
Calcium	315.887	39	100	39	1/12/2012	P
Chromium	267.716	0.43	10	0.43	1/12/2012	P
Cobalt	228.616	0.37	10	0.37	1/12/2012	P
Copper	324.752	2.7	10	2.7	1/12/2012	P
Iron	259.939	5.5	50	5.5	1/12/2012	P
Lead	220.353	3.7	15	3.7	1/12/2012	P
Magnesium	279.077	9.8	100	9.8	1/12/2012	P
Manganese	257.61	0.35	10	0.35	1/12/2012	P
Nickel	231.604	0.93	5	0.93	1/12/2012	P
Potassium	766.49	71.7	500	71.7	1/12/2012	P
Selenium	196.026	4.1	20	4.1	1/12/2012	P
Silver	328.068	0.52	10	0.52	1/12/2012	P
Sodium	589.592	180	300	180	1/12/2012	P
Vanadium	292.402	0.44	10	0.44	1/12/2012	P
Zinc	206.2	4	20	4	1/12/2012	P

Comments:

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METHOD DETECTION LIMITS

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
ICP ID Number : _____
Furnace AA ID Number : FIMS

Analyte	Wave-length (nm)	Raw MDL (ug/L)	CRDL (ug/L)	MDL (ug/L)	Verification Date	M
Mercury	253.7	0.037	0.2	0.037	1/13/2012	CV

Comments:

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METHOD DETECTION LIMITS

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

ICP ID Number : _____

Furnace AA ID Number : FIMS

Analyte	Wave-length (nm)	Raw MDL (UG/L)	CRDL (mg/Kg)	MDL (mg/Kg)	Verification Date	M
Mercury	253.7	0.059348	0.02	0.0037	2/6/2012	CV

Comments:

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METHOD DETECTION LIMITS

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 ICP ID Number : _____
 Furnace AA ID Number : GFAA

Analyte	Wave-length (nm)	Raw MDL (ug/L)	CRDL (ug/L)	MDL (ug/L)	Verification Date	M
Thallium	276.8	0.34	2	0.34	1/19/2012	F

Comments:

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INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392

Lab Code : PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

ICP ID Number : ICAP2 Date: 3/20/2010

Analyte	Wave-length	Interelement Correction Factors for:													
		Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Li	Mg
Aluminum	308.215			-0.008314											
Calcium	315.887	-0.004569	0.033090												

Comments:

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INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843
 ICP ID Number : ICAP2 Date: 3/20/2010

Analyte	Wave-length	Interelement Correction Factors for:												
		Mn	Mo	Na	Ni	Pb	Sb	Se	Sn	Sr	Ti	Tl	V	Zn
Aluminum	308.215					-0.037936	-0.005136	0.019986	-0.011680			-0.014087		
Calcium	315.887							-0.017299		0.006602	0.002747			

Comments:

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ICP LINEAR RANGES (SEMI-ANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
ICP ID NUMBER : ICAP2 DATE : 1/19/2012

Analyte	Integ. Time (sec.)	Concentration UG/L	M
Aluminum	1	1000	P
Calcium	1	1000	P
Magnesium	1	1000	P

Comments:

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PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Method : 6010

EPA Sample No:	Preparation Date	Weight (gram)	Volume (mL)
127829MB	26 Apr 12	0.563	
127830LCS	26 Apr 12	0.555	
127831LCSD	26 Apr 12	0.571	
EPAFMC-SD-07	26 Apr 12	0.751	
EPAFMC-SD-07MS	26 Apr 12	0.818	
EPAFMC-SD-07SD	26 Apr 12	0.812	
EPAFMC-SD-08	26 Apr 12	0.628	
EPAFMC-SD-09	26 Apr 12	0.78	
EPAFMC-SD-10	26 Apr 12	0.789	
EPAFMC-SD-11	26 Apr 12	0.65	
EPAFMC-SD-12	26 Apr 12	0.634	
EPAFMC-SD-13	26 Apr 12	0.616	
EPAFMC-SD-14	26 Apr 12	0.881	
EPAFMC-SD-15	26 Apr 12	0.786	
EPAFMC-SD-16	26 Apr 12	0.773	

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PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Method : 6010

EPA Sample No:	Preparation Date	Weight (gram)	Volume (mL)
128299MB	30 Apr 12		50
128299MBR1	30 Apr 12		50
128300LCS	30 Apr 12		50
128301LCSD	30 Apr 12		50
EPAFMC-SW-01	30 Apr 12		50
EPAFMC-SW-03	30 Apr 12		50

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PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Method : 7470

EPA Sample No:	Preparation Date	Weight (gram)	Volume (mL)
127643MB	26 Apr 12		25
127644LCS	26 Apr 12		25
127645LCSD	26 Apr 12		25
EPAFMC-SW-01	26 Apr 12		25
EPAFMC-SW-03	26 Apr 12		25

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PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Method : 7471

EPA Sample No:	Preparation Date	Weight (gram)	Volume (mL)
127984MB	26 Apr 12	0.266	
127985LCS	26 Apr 12	0.256	
127986LCSD	26 Apr 12	0.252	
EPAFMC-SD-07	26 Apr 12	0.266	
EPAFMC-SD-07MS	26 Apr 12	0.285	
EPAFMC-SD-07SD	26 Apr 12	0.268	
EPAFMC-SD-08	26 Apr 12	0.264	
EPAFMC-SD-09	26 Apr 12	0.429	
EPAFMC-SD-10	26 Apr 12	0.486	
EPAFMC-SD-11	26 Apr 12	0.352	
EPAFMC-SD-12	26 Apr 12	0.292	
EPAFMC-SD-13	26 Apr 12	0.464	
EPAFMC-SD-14	26 Apr 12	0.333	
EPAFMC-SD-15	26 Apr 12	0.426	
EPAFMC-SD-16	26 Apr 12	0.401	

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PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Method : 7841

EPA Sample No:	Preparation Date	Weight (gram)	Volume (mL)
127862MB	26 Apr 12		50
127863LCS	26 Apr 12		50
127864LCSD	26 Apr 12		50
EPAFMC-SW-01	26 Apr 12		50
EPAFMC-SW-03	26 Apr 12		50

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

Instrument ID Number: ICAP2 Method: P
 Start Date: 5/1/2012 End Date: 5/10/2012

EPA Sample No.	D/F	Time	%R	Analytes																									
				A	A	B	B	C	C	C	C	F	H	K	L	M	M	N	N	P	S	S	S	S	T	T	V	Z	
				G	L	S	A	E	A	D	N	O	R	U	E	G	I	G	N	O	A	I	B	B	E	N	R	I	L
CAL01	1	9:04		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CAL02	1	9:10			X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CAL03	1	9:17		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CAL04	1	9:23		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CAL05	1	9:28		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CAL06	1	9:33			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ICV1075514	1	9:40		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ICB1075515	1	9:50		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CRD1075516	1	10:01		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ICS1075517	1	10:07		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ICS1075518	1	10:13		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCV1075519	1	10:18		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCB1075520	1	10:23		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ZZZZZ	10	10:54																											
128299MB	1	11:00		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
128300LCS	1	11:06		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
128301LCSD	1	11:11		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
EPAFMC-SW-01	1	11:16		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
350584313L	5	11:22		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ZZZZZ	1	11:29																											
ZZZZZ	1	11:34																											
350584313A	1	11:39		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
EPAFMC-SW-03	1	11:45		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCV1075531	1	11:51		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCB1075532	1	11:56		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ZZZZZ	1	12:00																											
ZZZZZ	1	12:06																											
ZZZZZ	5	12:12																											
ZZZZZ	1	12:18																											
ZZZZZ	1	12:24																											
ZZZZZ	1	12:31																											
ZZZZZ	1	12:37																											
ZZZZZ	1	12:43																											
ZZZZZ	1	12:49																											

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392

Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Instrument ID Number: ICAP2 Method: P

Start Date: 5/1/2012 End Date: 5/10/2012

EPA Sample No.	D/F	Time	%R	Analytes																																		
				A G	A L	A S	B A	B E	B D	B N	C O	C R	C U	C E	F E	H G	K I	L G	M N	M O	M A	N I	N B	P B	S E	S N	S R	T I	T L	V N	Z N							
<u>ZZZZZZ</u>	1	12:55																																				
<u>ZZZZZZ</u>	1	13:02																																				
<u>ZZZZZZ</u>	1	13:07																																				
<u>ZZZZZZ</u>	1	13:12																																				
<u>ZZZZZZ</u>	1	13:18																																				
<u>ZZZZZZ</u>	1	13:23																																				
<u>ZZZZZZ</u>	5	13:30																																				
<u>ZZZZZZ</u>	1	13:36																																				
<u>ZZZZZZ</u>	1	13:41																																				
<u>ZZZZZZ</u>	1	13:46																																				
<u>ZZZZZZ</u>	1	13:51																																				
<u>ZZZZZZ</u>	1	13:58																																				
<u>ZZZZZZ</u>	5	14:04																																				
<u>ZZZZZZ</u>	1	14:10																																				
<u>ZZZZZZ</u>	1	14:16																																				
<u>ZZZZZZ</u>	1	14:21																																				
<u>ZZZZZZ</u>	1	14:25																																				
<u>ZZZZZZ</u>	1	14:31																																				
<u>ZZZZZZ</u>	1	14:37																																				
<u>ZZZZZZ</u>	1	14:44																																				
<u>ZZZZZZ</u>	1	14:50																																				
<u>ZZZZZZ</u>	1	14:56																																				
<u>ZZZZZZ</u>	1	15:02																																				
<u>ZZZZZZ</u>	1	15:08																																				
<u>ZZZZZZ</u>	1	15:14																																				
<u>ZZZZZZ</u>	1	15:20																																				
<u>ZZZZZZ</u>	1	15:26																																				
<u>ZZZZZZ</u>	1	15:32																																				
<u>ZZZZZZ</u>	1	15:37																																				
<u>ZZZZZZ</u>	1	15:43																																				
<u>ZZZZZZ</u>	1	15:48																																				
<u>ZZZZZZ</u>	5	15:54																																				
<u>ZZZZZZ</u>	1	16:01																																				
<u>ZZZZZZ</u>	1	16:06																																				

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Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
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Instrument ID Number : ICAP2 Method : P
 Start Date : 5/1/2012 End Date : 5/10/2012

EPA Sample No.	D/F	Time	%R	Analytes																														
				A G	A L	B S	B A	B E	C A	C D	C N	C O	C R	C U	F E	H G	K I	L G	M N	M O	N A	N I	P B	S B	S E	S N	S R	T I	T L	V L	Z N			
ZZZZZZ	1	16:12																																
ZZZZZZ	1	16:17																																
ZZZZZZ	1	16:24																																
ZZZZZZ	1	16:30																																
ZZZZZZ	1	16:36																																
ZZZZZZ	1	16:42																																
ZZZZZZ	1	16:48																																
ZZZZZZ	1	16:54																																
ZZZZZZ	1	17:00																																
ZZZZZZ	1	17:06																																
ZZZZZZ	1	17:11																																
ZZZZZZ	1	17:17																																
ZZZZZZ	5	17:23																																
ZZZZZZ	1	17:29																																
ZZZZZZ	1	17:34																																
ZZZZZZ	1	17:40																																
ZZZZZZ	1	17:45																																
ZZZZZZ	1	17:50																																
ZZZZZZ	1	17:55																																
ZZZZZZ	1	18:02																																
ZZZZZZ	1	18:07																																
ZZZZZZ	1	18:13																																
ZZZZZZ	5	18:19																																
ZZZZZZ	1	18:25																																
ZZZZZZ	1	18:32																																
ZZZZZZ	1	18:38																																
ZZZZZZ	1	18:43																																
ZZZZZZ	1	18:49																																
ZZZZZZ	1	18:54																																
ZZZZZZ	1	19:00																																
ZZZZZZ	1	19:05																																
ZZZZZZ	5	19:12																																
ZZZZZZ	1	19:18																																
ZZZZZZ	1	19:24																																

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EPA Sample No.	D/F	Time	%R	Analytes																									
				A G	A L	A S	B A	B E	B A	C D	C N	C O	C R	C U	F E	H G	K I	L G	M N	M O	N A	N I	P B	S B	S E	S N	R I	T L	V Z
ZZZZZ	1	19:30																											
ZZZZZ	1	19:36																											
ZZZZZ	1	19:42																											
ZZZZZ	1	19:48																											
ZZZZZ	1	19:54																											
ZZZZZ	1	20:00																											
ZZZZZ	1	20:07																											
ZZZZZ	1	20:13																											
ZZZZZ	1	20:18																											
ZZZZZ	1	20:23																											
ZZZZZ	1	20:29																											
CAL01	1	8:34		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CAL02	1	8:40		X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CAL03	1	8:47		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CAL04	1	8:53		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CAL05	1	8:58		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CAL06	1	9:03		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV1076625	1	9:13		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB1076626	1	9:18		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZ	1	9:24																											
ICS1076628	1	9:30		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICS1076629	1	9:36		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV1076630	1	9:41		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB1076631	1	9:46		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZ	5	10:48																											
ZZZZZ	25	10:54																											
ZZZZZ	5	11:00																											
ZZZZZ	5	11:05																											
ZZZZZ	5	11:11																											
ZZZZZ	5	11:16																											
ZZZZZ	5	11:22																											
ZZZZZ	10	11:29																											
ZZZZZ	5	11:35																											
ZZZZZ	1	11:41																											

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Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
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Instrument ID Number: ICAP2 Method: P
 Start Date: 5/1/2012 End Date: 5/10/2012

EPA Sample No.	D/F	Time	%R	Analytes																										
				A	A	A	B	B	C	C	C	C	F	H	K	L	M	M	M	N	N	P	S	S	S	S	T	T	V	Z
				G	L	S	A	E	A	D	N	O	R	U	E	G	I	G	N	O	A	I	B	B	E	N	R	I	L	N
CCV1076642	1	11:47		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCB1076643	1	11:52		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ZZZZZ	1	11:59																												
ZZZZZ	1	12:04																												
ZZZZZ	1	12:09																												
ZZZZZ	5	12:14																												
ZZZZZ	1	12:20																												
ZZZZZ	1	12:25																												
ZZZZZ	1	12:30																												
ZZZZZ	1	12:36																												
ZZZZZ	1	12:41																												
ZZZZZ	1	12:46																												
CCV1076654	1	12:52		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCB1076655	1	12:57		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCB1076656	1	13:00		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ZZZZZ	1	13:06																												
ZZZZZ	1	13:13																												
ZZZZZ	1	13:18																												
ZZZZZ	1	13:23																												
ZZZZZ	5	13:28																												
ZZZZZ	1	13:33																												
ZZZZZ	1	13:39																												
ZZZZZ	1	13:44																												
ZZZZZ	1	13:49																												
ZZZZZ	1	13:54																												
CCV1076667	1	14:00		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCB1076668	1	14:05		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ZZZZZ	1	14:11																												
ZZZZZ	1	14:16																												
ZZZZZ	1	14:22																												
ZZZZZ	1	14:27																												
127830LCS	1	14:33		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
127831LCSD	1	14:37		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
EPAFMC-SD-07	1	14:42		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		

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Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
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Instrument ID Number: ICAP2 Method: P
 Start Date: 5/1/2012 End Date: 5/10/2012

EPA Sample No.	D/F	Time	%R	Analytes																									
				A	A	B	B	C	C	C	C	F	H	K	L	M	M	M	N	N	P	S	S	S	S	T	T	V	Z
				G	L	S	A	E	A	D	N	O	R	U	E	G	I	G	N	O	A	I	B	B	E	N	R	I	L
350584301L	5	14:47		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
EPAFMC-SD-07MS	1	14:53		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
EPAFMC-SD-07SD	1	14:58		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCV1076860	1	15:03		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB1076861	1	15:08		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB1076862	1	15:12		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
350584301A	1	15:18		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
EPAFMC-SD-08	1	15:23		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
EPAFMC-SD-09	1	15:29		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
EPAFMC-SD-10	1	15:34		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
EPAFMC-SD-11	1	15:40		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
EPAFMC-SD-12	1	15:45		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
EPAFMC-SD-13	1	15:51		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
EPAFMC-SD-14	1	15:56		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
EPAFMC-SD-15	1	16:01		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
EPAFMC-SD-16	1	16:07		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCV1076873	1	16:12		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB1076874	1	16:17		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZ	1	16:21																											
127829MB	1	16:27		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZ	1	16:33																											
ZZZZZ	1	16:39																											
ZZZZZ	1	16:44																											
ZZZZZ	1	16:50																											
ZZZZZ	5	16:55																											
ZZZZZ	1	17:00																											
ZZZZZ	1	17:06																											
ZZZZZ	1	17:11																											
ZZZZZ	1	17:17																											
CCV1076886	1	17:22		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB1076887	1	17:27		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZ	1	17:33																											
ZZZZZ	1	17:39																											
ZZZZZ	1	17:44																											

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Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
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EPA Sample No.	D/F	Time	%R	Analytes																										
				A G	A L	A S	B A	B E	B A	C D	C N	C O	C R	C U	F E	H G	K I	L G	M N	M O	N A	N I	P B	S B	S E	S N	R I	T L	V N	Z N
<u>ZZZZZ</u>	1	17:50																												
<u>ZZZZZ</u>	1	17:55																												
<u>ZZZZZ</u>	1	18:00																												
<u>ZZZZZ</u>	1	18:06																												
<u>ZZZZZ</u>	1	18:11																												
<u>ZZZZZ</u>	1	18:17																												
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<u>ZZZZZ</u>	1	18:27																												
<u>ZZZZZ</u>	1	18:33																												
<u>ZZZZZ</u>	1	18:36																												
<u>ZZZZZ</u>	1	18:42																												
<u>ZZZZZ</u>	1	18:48																												
<u>ZZZZZ</u>	1	18:53																												
<u>ZZZZZ</u>	1	18:58																												
<u>ZZZZZ</u>	1	19:03																												
CAL01	1	11:28		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CAL02	1	11:34		X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CAL03	1	11:41		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CAL04	1	11:46		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CAL05	1	11:51		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CAL06	1	11:56		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV1079010	1	12:18		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB1079011	1	12:23		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<u>ZZZZZ</u>	1	12:29																												
ICS1079013	1	12:35		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICS1079014	1	12:40		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV1079015	1	12:46		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB1079016	1	12:51		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<u>ZZZZZ</u>	1	13:01																												
<u>ZZZZZ</u>	1	13:07																												
<u>ZZZZZ</u>	1	13:12																												
<u>ZZZZZ</u>	1	13:18																												
<u>ZZZZZ</u>	5	13:23																												
<u>ZZZZZ</u>	1	13:28																												

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Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
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 Start Date : 5/1/2012 End Date : 5/10/2012

EPA Sample No.	D/F	Time	%R	Analytes																									
				A	A	B	B	C	C	C	C	F	H	K	L	M	M	N	N	P	S	S	S	T	T	V	Z		
				G	L	S	A	E	A	D	N	O	R	U	E	G	I	G	N	O	A	I	B	B	E	N	R	I	L
ZZZZZ	1	13:34																											
ZZZZZ	1	13:39																											
ZZZZZ	1	13:44																											
ZZZZZ	1	13:50																											
CCV1079027	1	13:55		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCV1079028	1	13:58		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB1079029	1	14:03		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB1079030	1	14:07		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZ	1	14:13																											
ZZZZZ	1	14:18																											
ZZZZZ	1	14:24																											
ZZZZZ	1	14:29																											
ZZZZZ	1	14:35																											
ZZZZZ	1	14:40																											
ZZZZZ	1	14:45																											
EPAFMC-SD-07DL1	5	14:51					X				X			X															
350584301LDL1	25	14:56					X				X			X															
ZZZZZ	5	15:01																											
CCV1079041	1	15:07		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCV1079042	1	15:09		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB1079043	1	15:15		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZ	5	15:21																											
350584301ADL1	5	15:26					X				X			X															
EPAFMC-SD-08DL1	5	15:31									X			X															
EPAFMC-SD-09DL1	5	15:37									X			X															
EPAFMC-SD-10DL1	5	15:42					X				X			X															
EPAFMC-SD-11DL1	5	15:47												X															
EPAFMC-SD-13DL1	5	15:55												X															
EPAFMC-SD-14DL1	5	16:00									X			X															
EPAFMC-SD-15DL1	5	16:06					X				X			X															
CCV1079053	1	16:11		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCV1079054	1	16:14		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB1079055	1	16:19		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB1079056	1	16:23		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Instrument ID Number : ICAP2 Method : P
 Start Date : 5/1/2012 End Date : 5/10/2012

EPA Sample No.	D/F	Time	%R	Analytes																									
				A	A	B	B	C	C	C	C	F	H	K	L	M	M	N	N	P	S	S	S	T	T	V	Z		
				G	L	S	A	E	A	D	N	O	R	U	E	G	I	G	N	O	A	I	B	B	E	N	R	I	L
EPAFMC-SD-16DL1	5	16:29														X													
128299MBR1	1	16:34										X																	
ZZZZZ	1	16:40																											
ZZZZZ	1	16:46																											
ZZZZZ	1	16:51																											
ZZZZZ	1	16:57																											
ZZZZZ	5	17:02																											
ZZZZZ	1	17:07																											
ZZZZZ	1	17:13																											
ZZZZZ	1	17:18																											
CCV1079067	1	17:23		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ZZZZZ	1	17:26																											
CCB1079069	1	17:31		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ZZZZZ	1	17:37																											
ZZZZZ	1	17:44																											
ZZZZZ	1	17:50																											
ZZZZZ	1	17:56																											
ZZZZZ	1	18:03																											
ZZZZZ	1	18:09																											
ZZZZZ	1	18:14																											
ZZZZZ	1	18:20																											
ZZZZZ	1	18:27																											
ZZZZZ	1	18:33																											
ZZZZZ	1	18:39																											
ZZZZZ	1	18:42																											
ZZZZZ	1	18:47																											
ZZZZZ	1	18:53																											
ZZZZZ	1	18:59																											
ZZZZZ	1	19:05																											
ZZZZZ	1	19:12																											
ZZZZZ	1	19:18																											
ZZZZZ	1	19:24																											
ZZZZZ	1	19:31																											
ZZZZZ	1	19:37																											

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Instrument ID Number : ICAP2 Method : P
 Start Date : 5/1/2012 End Date : 5/10/2012

EPA Sample No.	D/F	Time	%R	Analytes																									
				A	A	B	B	C	C	C	C	F	H	K	L	M	M	N	N	P	S	S	S	T	T	V	Z		
				G	L	S	A	E	A	D	N	O	R	U	E	G	I	G	N	O	A	I	B	B	E	N	R	I	L
ZZZZZZ	1	19:43																											
ZZZZZZ	1	19:48																											
ZZZZZZ	1	19:53																											
ZZZZZZ	1	19:56																											
ZZZZZZ	1	20:01																											
ZZZZZZ	1	20:08																											
ZZZZZZ	5	20:13																											
ZZZZZZ	1	20:18																											
ZZZZZZ	1	20:24																											
ZZZZZZ	1	20:29																											
ZZZZZZ	1	20:35																											
ZZZZZZ	1	20:40																											
ZZZZZZ	1	20:45																											
ZZZZZZ	1	20:51																											
ZZZZZZ	1	20:56																											
ZZZZZZ	1	21:02																											
ZZZZZZ	1	21:05																											
ZZZZZZ	1	21:10																											
ZZZZZZ	1	21:13																											
ZZZZZZ	1	21:19																											
ZZZZZZ	1	21:25																											
ZZZZZZ	1	21:31																											
ZZZZZZ	1	21:36																											
ZZZZZZ	1	21:41																											
ZZZZZZ	1	21:47																											
ZZZZZZ	1	21:52																											
ZZZZZZ	5	21:58																											
ZZZZZZ	25	22:03																											
ZZZZZZ	5	22:08																											
ZZZZZZ	1	22:14																											
ZZZZZZ	1	22:16																											
ZZZZZZ	1	22:22																											
ZZZZZZ	1	22:25																											
ZZZZZZ	5	22:31																											

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Instrument ID Number: ICAP2 Method: P
 Start Date: 5/1/2012 End Date: 5/10/2012

EPA Sample No.	D/F	Time	%R	Analytes																											
				A G	A L	B S	B A	B E	C A	C D	C N	C O	C R	C U	F E	H G	K I	L G	M N	M O	M A	N I	P B	S B	S E	S N	S R	T I	T L	V L	Z N
ZZZZZ	5	22:36																													
ZZZZZ	5	22:42																													
ZZZZZ	5	22:47																													
ZZZZZ	5	22:52																													
ZZZZZ	5	22:58																													
ZZZZZ	5	23:03																													
ZZZZZ	5	23:08																													
ZZZZZ	5	23:14																													
ZZZZZ	1	23:19																													
ZZZZZ	1	23:25																													
ZZZZZ	1	23:28																													
ZZZZZ	1	23:33																													
ZZZZZ	1	23:39																													
ZZZZZ	1	23:45																													
ZZZZZ	1	23:50																													
ZZZZZ	5	23:56																													
ZZZZZ	1	0:03																													
ZZZZZ	1	0:08																													
ZZZZZ	1	0:13																													
ZZZZZ	1	0:19																													
ZZZZZ	1	0:24																													
ZZZZZ	1	0:29																													
ZZZZZ	1	0:32																													
ZZZZZ	1	0:37																													
CAL01	1	10:52		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CAL02	1	10:58		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CAL03	1	11:05		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CAL04	1	11:11		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CAL05	1	11:16		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CAL06	1	11:21		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ICV1079257	1	11:26		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ICB1079258	1	11:31		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZ	1	11:37																													
ICS1079260	1	11:44		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Instrument ID Number : ICAP2 Method : P
 Start Date : 5/1/2012 End Date : 5/10/2012

EPA Sample No.	D/F	Time	%R	Analytes																									
				A	A	B	B	C	C	C	C	F	H	K	L	M	M	N	N	P	S	S	S	T	T	V	Z		
				G	L	S	A	E	A	D	N	O	R	U	E	G	I	G	N	O	A	I	B	B	E	N	R	I	L
ICS1079261	1	11:49		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCV1079262	1	11:54		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCB1079263	1	12:00		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
EPAFMC-SD-12DL1	5	12:14											X				X												
<i>ZZZZZ</i>	5	12:19																											
<i>ZZZZZ</i>	25	12:26																											
<i>ZZZZZ</i>	5	12:32																											
<i>ZZZZZ</i>	1	12:38																											
<i>ZZZZZ</i>	1	12:44																											
<i>ZZZZZ</i>	1	12:49																											
<i>ZZZZZ</i>	1	12:54																											
<i>ZZZZZ</i>	5	13:01																											
<i>ZZZZZ</i>	1	13:07																											
CCV1079274	1	13:12		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCB1079275	1	13:17		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
<i>ZZZZZ</i>	1	13:24																											
<i>ZZZZZ</i>	1	13:29																											
<i>ZZZZZ</i>	1	13:34																											
<i>ZZZZZ</i>	1	13:41																											
<i>ZZZZZ</i>	1	13:47																											
<i>ZZZZZ</i>	1	13:53																											

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Instrument ID Number : FIMS Method : CV
 Start Date : 4/26/2012 End Date : 4/26/2012

EPA Sample No.	D/F	Time	%R	Analytes																										
				A G	A L	A S	B A	B E	B D	C N	C O	C R	C U	F E	H G	K I	L G	M N	M O	M A	N I	N B	P B	S B	S E	S N	R I	T L	V L	Z N
CAL01	1	15:19													X															
CAL02	1	15:21													X															
CAL03	1	15:23													X															
CAL04	1	15:25													X															
CAL05	1	15:27													X															
CAL06	1	15:28													X															
ICV1073864	1	15:30													X															
ICB1073865	1	15:32													X															
CCV1073866	1	15:34													X															
CCB1073867	1	15:36													X															
127643MB	1	15:38													X															
127644LCS	1	15:39													X															
127645LCSD	1	15:41													X															
ZZZZZ	1	15:43																												
ZZZZZ	1	15:45																												
ZZZZZ	1	15:47																												
ZZZZZ	1	15:48																												
ZZZZZ	1	15:50																												
EPAFMC-SW-01	1	15:52													X															
EPAFMC-SW-03	1	15:54													X															
CCV1073878	1	15:56													X															
CCB1073879	1	15:57													X															
350581602L	5	15:59													X															
350581602A	1	16:01													X															
ZZZZZ	1	16:03																												
ZZZZZ	1	16:04																												
ZZZZZ	1	16:06																												
ZZZZZ	1	16:08																												
ZZZZZ	1	16:10																												
ZZZZZ	1	16:12																												
ZZZZZ	5	16:13																												
ZZZZZ	1	16:15																												
CCV1073890	1	16:17													X															
CCB1073891	1	16:19													X															

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Instrument ID Number: FIMS Method: CV
 Start Date: 4/27/2012 End Date: 4/27/2012

EPA Sample No.	D/F	Time	%R	Analytes																									
				A	A	B	B	C	C	C	C	F	H	K	L	M	M	N	N	P	S	S	S	T	T	V	Z		
				G	L	S	A	E	A	D	N	O	R	U	E	G	I	G	N	O	A	I	B	B	E	N	R	I	L
127984MB	1	18:09																									X		
127985LCS	1	18:11																									X		
127986LCSD	1	18:12																									X		
EPAFMC-SD-07	1	18:14																									X		
EPAFMC-SD-07MS	1	18:16																									X		
EPAFMC-SD-07SD	1	18:18																									X		
EPAFMC-SD-08	1	18:20																									X		
EPAFMC-SD-09	1	18:21																									X		
EPAFMC-SD-10	1	18:23																									X		
EPAFMC-SD-11	1	18:25																									X		
CCV1074294	1	18:27																									X		
CCB1074295	1	18:28																									X		
EPAFMC-SD-12	1	18:30																									X		
EPAFMC-SD-13	1	18:32																									X		
EPAFMC-SD-14	1	18:34																									X		
EPAFMC-SD-15	1	18:35																									X		
EPAFMC-SD-16	1	18:37																									X		
350584301L	5	18:39																									X		
350584301A	1	18:41																									X		
ZZZZZ	1	18:43																											
ZZZZZ	1	18:45																											
ZZZZZ	1	18:46																											
CCV1074306	1	18:48																									X		
CCB1074307	1	18:50																									X		
ZZZZZ	1	18:52																											
ZZZZZ	1	18:54																											
ZZZZZ	1	18:55																											
ZZZZZ	1	18:57																											
ZZZZZ	1	18:59																											
ZZZZZ	1	19:01																											
ZZZZZ	1	19:02																											
ZZZZZ	1	19:04																											
ZZZZZ	1	19:06																											
ZZZZZ	1	19:08																											

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Instrument ID Number : FIMS Method : CV
 Start Date : 4/27/2012 End Date : 4/27/2012

EPA Sample No.	D/F	Time	%R	Analytes																									
				A G	A L	B S	B A	B E	C A	C D	C N	C O	C R	C U	F E	H G	K I	L G	M N	M O	N A	N I	P B	S B	S E	S N	T R	T I	V L
<u>ZZZZZZ</u>	1	19:10																											
<u>ZZZZZZ</u>	1	19:11																											
<u>ZZZZZZ</u>	1	19:13																											
<u>ZZZZZZ</u>	1	19:15																											
<u>ZZZZZZ</u>	1	19:17																											
<u>ZZZZZZ</u>	1	19:19																											
<u>ZZZZZZ</u>	1	19:20																											
<u>ZZZZZZ</u>	5	19:22																											
<u>ZZZZZZ</u>	1	19:24																											
<u>ZZZZZZ</u>	1	19:26																											
<u>ZZZZZZ</u>	1	19:27																											

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Instrument ID Number: GFAA Method: F
 Start Date: 5/2/2012 End Date: 5/2/2012

EPA Sample No.	D/F	Time	%R	Analytes																										
				A	A	A	B	B	B	C	C	C	C	F	H	K	L	M	M	M	N	N	P	S	S	S	T	T	V	Z
				G	L	S	A	E	A	D	N	O	R	U	E	G	I	G	N	O	A	I	B	B	E	N	R	I	L	N
<u>ZZZZZZ</u>	1	10:49																												
<u>ZZZZZZ</u>	1	10:55																												
<u>ZZZZZZ</u>	1	11:01																												
<u>ZZZZZZ</u>	1	11:07																												
<u>ZZZZZZ</u>	1	11:13																												
<u>ZZZZZZ</u>	1	11:19																												
<u>ZZZZZZ</u>	1	11:25																												
<u>ZZZZZZ</u>	1	11:31																												
<u>ZZZZZZ</u>	1	11:37																												
<u>ZZZZZZ</u>	1	11:42																												
<u>ZZZZZZ</u>	1	11:48																												
<u>ZZZZZZ</u>	5	11:54																												
<u>ZZZZZZ</u>	1	12:00																												
<u>ZZZZZZ</u>	1	12:06																												
<u>ZZZZZZ</u>	1	12:12																												
<u>ZZZZZZ</u>	1	12:18																												
<u>ZZZZZZ</u>	5	12:24																												
<u>ZZZZZZ</u>	1	12:30																												
<u>ZZZZZZ</u>	1	12:36																												
<u>ZZZZZZ</u>	1	12:42																												
<u>ZZZZZZ</u>	1	12:48																												
<u>ZZZZZZ</u>	1	12:54																												
<u>ZZZZZZ</u>	1	12:59																												
<u>ZZZZZZ</u>	1	13:05																												
<u>ZZZZZZ</u>	1	13:11																												
<u>ZZZZZZ</u>	1	13:19																												
<u>ZZZZZZ</u>	1	13:25																												
<u>ZZZZZZ</u>	1	13:32																												
<u>ZZZZZZ</u>	1	13:38																												
<u>ZZZZZZ</u>	1	13:44																												
<u>ZZZZZZ</u>	1	13:51																												
<u>ZZZZZZ</u>	1	13:57																												
<u>ZZZZZZ</u>	1	14:03																												
<u>ZZZZZZ</u>	1	14:10																												

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Instrument ID Number : GFAA Method : F
 Start Date : 5/2/2012 End Date : 5/2/2012

EPA Sample No.	D/F	Time	%R	Analytes																										
				A	A	A	B	B	B	C	C	C	C	F	H	K	L	M	M	M	N	N	P	S	S	S	T	T	V	Z
				G	L	S	A	E	A	D	N	O	R	U	E	G	I	G	N	O	A	I	B	B	E	N	R	I	L	N
ZZZZZ	1	14:16																												
ZZZZZ	1	14:22																												
ZZZZZ	1	14:29																												
ZZZZZ	1	14:35																												
ZZZZZ	1	14:41																												
ZZZZZ	5	14:48																												
ZZZZZ	1	14:54																												
ZZZZZ	1	15:00																												
ZZZZZ	1	15:07																												
ZZZZZ	1	15:13																												
ZZZZZ	5	15:19																												
ZZZZZ	1	15:26																												
ZZZZZ	1	15:32																												
ZZZZZ	5	15:38																												
ZZZZZ	1	15:45																												
ZZZZZ	1	15:51																												
CAL01	1	15:59																								X				
CAL02	1	16:05																								X				
CAL03	1	16:10																								X				
CAL04	1	16:16																								X				
CAL05	1	16:22																								X				
ICV1076478	1	16:28																								X				
ICB1076479	1	16:33																								X				
ZZZZZ	1	16:39																												
CCV1076481	1	16:45																								X				
CCB1076482	1	16:51																								X				
127862MB	1	16:56																								X				
127863LCS	1	17:02																								X				
127864LCSD	1	17:08																								X				
EPAFMC-SW-01	1	17:14																								X				
350584313L	5	17:20																								X				
ZZZZZ	1	17:25																												
ZZZZZ	1	17:31																												
350584313A	1	17:37																								X				

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Instrument ID Number : GFAA Method : F

Start Date : 5/2/2012 End Date : 5/2/2012

EPA Sample No.	D/F	Time	%R	Analytes																									
				A	A	B	B	C	C	C	C	F	H	K	L	M	M	N	N	P	S	S	S	S	T	T	V	Z	
				G	L	S	A	E	A	D	N	O	R	U	E	G	I	G	N	O	A	I	B	B	E	N	R	I	L
EPAFMC-SW-03	1	17:43																									X		
CCV1076492	1	17:48																									X		
CCB1076493	1	17:54																									X		

Wet Chemistry Data Package

**CASE NARRATIVE
TOTAL ORGANIC CARBON**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

Analyses were performed according to Spectrum Analytical Inc. Laboratory's Standard Operating Procedures and EPA SW846 Method 9060Mod.

IV. PREPARATION

There is no preparation step for this method.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

1. Calibration Blanks:

All acceptance criteria were met.

2. Method Blanks:

All acceptance criteria were met.

C. Spikes:

1. Laboratory Control Spikes (LCS):

An LCS/LCSD set was analyzed.

All percent recovery and relative percent difference (RPD) criteria were met.

2. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD):

Spikes are not available for this method.

D. Duplicate:

**CASE NARRATIVE
TOTAL ORGANIC CARBON**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843


Client: OTIE

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)

E. Samples:

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature: 
Name: Troy L. Roberts Title: Inorg. Manager

SIGNED:

DATE: 05/09/2012

U.S. EPA - CLP
COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Sit
Lab Code : PEL Case No.: _____ SDG No.: 3505843
SOW No.: _____

EPA Sample No	Lab Sample ID
<u>EPAFMC-SD-07</u>	<u>350584301</u>
<u>EPAFMC-SD-08</u>	<u>350584304</u>
<u>EPAFMC-SD-09</u>	<u>350584305</u>
<u>EPAFMC-SD-10</u>	<u>350584306</u>
<u>EPAFMC-SD-11</u>	<u>350584307</u>
<u>EPAFMC-SD-12</u>	<u>350584308</u>
<u>EPAFMC-SD-13</u>	<u>350584309</u>
<u>EPAFMC-SD-14</u>	<u>350584310</u>
<u>EPAFMC-SD-15</u>	<u>350584311</u>
<u>EPAFMC-SD-16</u>	<u>350584312</u>

Comments:

Wetchem_TOCS Inorganic Sample Data

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-07
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584301
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 75.5 Station ID: EPAFMC06

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
1012_5	TOC	9740			TC		57.4	494

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-08
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584304
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 97.1 Station ID: EPAFMC07

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
1012_5	TOC	1220			TC		38.8	334

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-09
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584305
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 77.7 Station ID: EPAFMC08

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
1012_5	TOC	2430			TC		66	568

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-10
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584306
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 79.7 Station ID: EPAFMC09

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
1012_5	TOC	6000			TC		50	430

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-11
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584307
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 78.4 Station ID: EPAFMC10

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
1012_5	TOC	7320			TC		67	576

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-12
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584308
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 84.4 Station ID: EPAFMC11

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
1012_5	TOC	13200			TC		46.5	401

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-13
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584309
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 78 Station ID: EPAFMC12

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
1012_5	TOC	26200			TC		60.6	521

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-14
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584310
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 80.6 Station ID: EPAFMC13

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
1012_5	TOC	1640			TC		52.1	449

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-15
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584311
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 82.2 Station ID: EPAFMC14

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
1012_5	TOC	14300			TC		54.6	470

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SD-16
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584312
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 80.1 Station ID: EPAFMC11

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
1012_5	TOC	6240			TC		49	422

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

Wetchem_TOCS Inorganic QC Summary Data

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 129552MB
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 129552MB
 Level:(low/med) LOW Date Received: 5/3/2012
 PercentSolids: 100 Station ID: _____

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
1012_5	TOC	54.6	U		TC	54.6	470

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

2-CC

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Cr
 Lab Code : PEL Case No. SAS No: SDG No.: 3505843

Concentration Units: (mg/Kg)

Analyte	Initial Calibration				Continuing Calibration						M
	Source Used	True	Found	%R (1)	Source Used	True	Found	%R (1)	Found	%R (1)	
TOC	44239	1.9992	1.870	93.5	44240	1.9992	1.940	97.0	2.000	100.0	TC

ICV IDs: TC= 129550ICV

CCV1 IDs: TC= 129556CCV

CCV2 IDs: TC= 129559CCV

(1) Control Limits: TOC: 75-125

Comments:

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392

Lab Code : PEL Case No. SAS No: SDG No.: 3505843

Preparation Blank Matrix (water/soil): SOIL

Preparation Blank Concentration Units (ug/L or mg/Kg): MG/KG

Analyte	Initial Calib. Blank (mg/Kg)		Continuing Calibration Blank (mg/Kg)				Preparation Blank		M	
	C	U	C	C	C	C	C			
TOC	54.6	U	54.6	U	54.6	U		54.6	U	TC

ICB IDs: TC= 129551ICB

CCB1 IDs: TC= 129557CCB

CCB2 IDs: TC= 129558CCB

CCB3 IDs:

U.S. EPA - CLP

6

DUPLICATES

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

129554LCSD

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Level:(low/med) LOW

% Solids for Sample: 100 % Solids for Duplicate: 100

Concentration Units (mg/L or mg/kg): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
TOC	20	102000		107000		4.8		TC

Comments:

110512 1917

U.S. EPA - CLP

7-CC

LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Sit

129553LCS

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: (soil/water) SOIL

Concentration Units: (MG/KG)

PARAMETER	LCS SOURCE	M	LIMITS		TRUE	FOUND	%R	C
			LOWER	UPPER				
TOC	44239	TC	80	120	100000	102000	102	

Comments:

U.S. EPA - CLP

7-CC

LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Sit

129554LCSD

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: (soil/water) SOIL

Concentration Units: (MG/KG)

PARAMETER	LCS SOURCE	M	LIMITS		TRUE	FOUND	%R	C
			LOWER	UPPER				
TOC	44239	TC	80	120	100000	107000	107	

Comments:

U.S. EPA - CLP

10

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392

Lab Code : PEL Case No.: SAS No: SDG No.: 3505843

Matrix: Soil

Concentration Units: MG/KG

PARAMETER	M	INSTRUMENT ID	DATE	CRDL	MDL	Raw MDL (UG/L)
TOC	TC	TOC	9/8/2009	470	54.6	75894

Comments:

110512 1917

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Instrument ID Number: TOC Method: TC
 Start Date: 5/1/2012 End Date: 5/3/2012

EPA Sample No.	D/F	Time	%R	Analytes *:
CAL01		9:18		X
CAL02		9:26		X
CAL03		9:33		X
CAL04		9:41		X
CAL05		9:48		X
CAL06		9:55		X
129550ICV	1	8:24		X
129551ICB	1	8:34		X
129552MB	1	8:44		X
129553LCS	1	8:54		X
129554LCSD	1	9:42		X
EPAFMC-SD-07	1	10:12		X
SAMDUP	1	10:23		X
EPAFMC-SD-08	1	10:31		X
EPAFMC-SD-09	1	10:43		X
EPAFMC-SD-10	1	10:53		X
EPAFMC-SD-11	1	11:05		X
EPAFMC-SD-12	1	11:16		X
EPAFMC-SD-13	1	11:25		X
EPAFMC-SD-14	1	11:31		X
EPAFMC-SD-15	1	11:45		X
129556CCV	1	11:55		X
129557CCB	1	12:06		X
EPAFMC-SD-16	1	12:15		X
<u>ZZZZZ</u>	1	12:26		
<u>ZZZZZ</u>	1	12:32		
129559CCV	1	12:58		X
129558CCB	1	13:32		X

* TOC

Hardness Data Package

**CASE NARRATIVE
HARDNESS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Analysis: All holding times were met.

III. METHODS

Analyses were performed according to the Spectrum Analytical Inc. Standard Operating Procedures and SM 2340B.

Soil samples were prepared by
Not applicable


IV. ANALYSIS

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)

A. Samples:

Sample analysis proceeded normally.
Hardness results were calculated using Calcium and Magnesium results from Method 6010B.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature: 
Name: Troy L. Roberts Title: Inorg. Manager

SIGNED:

DATE: 05/09/2012

U.S. EPA - CLP
COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Sit
Lab Code : PEL Case No.: _____ SDG No.: 3505843
SOW No.: _____

EPA Sample No	Lab Sample ID
<u>EPAFMC-SW-01</u>	<u>350584313</u>
<u>EPAFMC-SW-03</u>	<u>350584314</u>

Comments:

Wetchem_har Inorganic Sample Data

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SW-01
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: WATER Lab Sample ID: 350584313
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 0 Station ID: EPAFMC11

CONCENTRATION UNITS: *mg/L*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
35-50-0	Hardness	195			P		0.2	1

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 EPAFMC-SW-03
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: WATER Lab Sample ID: 350584314
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 0 Station ID: EPAFMC11

CONCENTRATION UNITS: *mg/L*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
35-50-0	Hardness	203			P		0.2	1

Color Before: _____ Clarity Before: _____ Texture : _____
 Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

Wetchem_har Inorganic QC Summary Data

U.S. EPA - CLP

10

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392

Lab Code : PEL Case No.: SAS No: SDG No.: 3505843

Matrix: Soil

Concentration Units:

PARAMETER	M	INSTRUMENT ID	DATE	CRDL	MDL	Raw MDL (UG/L)
Hardness	P	ICAP2		1	0.2	

Comments:

110512 1917

U.S. EPA - CLP

13

PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Method : A2340B

EPA Sample No:	Preparation Date	Weight (gram)	Volume (mL)
EPAFMC-SW-01	30 Apr 12		1
EPAFMC-SW-03	30 Apr 12		1

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14

ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No.: SAS No: SDG No.: 3505843

Instrument ID Number : ICAP Method : P
Start Date : End Date :

EPA Sample No.	D/F	Time	%R	Analytes *:
EPAFMC-SW-03				X
EPAFMC-SW-01				X

* Hardness

Chain of Custody Documentation

USEPA Region 4 COC (LAB COPY)

Date Shipped: 4/24/2012

Carrier Name: FedEx

Airbill No: 875585709764

CHAIN OF CUSTODY RECORD

Site #: 1392

Project Number: OTIE-FIVE MILE CREEK

Cooler #: [REDACTED]

3505843
VJ

No: EPAFMC 4-24-12
Lab: PELUSPECTRUM LAB
Lab Contact: KEVIN DUNHAM
Lab Phone: 813-888-9507

Sample #	Media/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
EPAFMC-SD-07	Sediment DUSTIN MORIN & RYAN STUBBS	Grab	SVOA + PAHs+TOC(14), TAL METALS + Hg(14)	A (ice), B (ice) (3)	EPAFMC06	04/24/2012 11:25	-010205
EPAFMC-SD-08	Sediment DUSTIN MORIN & RYAN STUBBS	Grab	SVOA+PAHs+PCB+TOC(14), TAL METALS + Hg(14)	A (ice), B (ice) (2)	EPAFMC07	04/24/2012 11:37	04
EPAFMC-SD-09	Sediment DUSTIN MORIN & RYAN STUBBS	Grab	SVOA + PAHs+TOC(14), TAL METALS + Hg(14)	A (ice), B (ice) (2)	EPAFMC08	04/24/2012 11:45	05
EPAFMC-SD-10	Sediment DUSTIN MORIN & RYAN STUBBS	Grab	SVOA + PAHs+TOC(14), TAL METALS + Hg(14)	A (ice), B (ice) (2)	EPAFMC09	04/24/2012 13:43	06
EPAFMC-SD-11	Sediment DUSTIN MORIN & RYAN STUBBS	Grab	SVOA + PAHs+TOC(14), TAL METALS + Hg(14)	A (ice), B (ice) (2)	EPAFMC10	04/24/2012 14:25	07

Sample(s) to be used for Lab QC: EPAFMC-SD-07		Temp acc: 3.0C	
Analysis Key		Gold preserved in house	
Shipment for Case Complete? N		Samples Transferred From Chain of Custody #	

Items/Reason	Relinquished by	Date	Received by	Date	Items/Reason	Relinquished By	Date	Received by	Date	Time
COC KEYS + samples	Nourimer	4/24/12	1730							

USEPA Region 4 COC (LAB COPY)

Date Shipped: 4/24/2012

Carrier Name: FedEx

Airbill No: 875585709764

Cooler #:

CHAIN OF CUSTODY RECORD

Site #: 1392

Project Number: OTIE-FIVE MILE CREEK

No: EPAFMC 4-24-12
 Lab: PEUSPECTRUM LAB
 Lab Contact: KEVIN DUNHAM
 Lab Phone: 813-888-9507

3505843
 M

Sample #	Media/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
EPAFMC-SD-12	Sediment DUSTIN MORIN & RYAN STUBBS	Grab	SVOA+PAHS+PCB+TOC(14), TAL METALS + Hg(14)	A (ice), B (ice) (2)	EPAFMC11	04/24/2012 15:40	-08
EPAFMC-SD-13	Sediment DUSTIN MORIN & RYAN STUBBS	Grab	SVOA + PAHS+TOC(14), TAL METALS + Hg(14)	A (ice), B (ice) (2)	EPAFMC12	04/24/2012 15:04	09
EPAFMC-SD-14	Sediment DUSTIN MORIN & RYAN STUBBS	Grab	SVOA + PAHS+TOC(14), TAL METALS + Hg(14)	A (ice), B (ice) (2)	EPAFMC13	04/24/2012 15:35	-10
EPAFMC-SD-15	Sediment DUSTIN MORIN & RYAN STUBBS	Grab	SVOA + PAHS+TOC(14), TAL METALS + Hg(14)	A (ice), B (ice) (2)	EPAFMC14	04/24/2012 15:19	-11
EPAFMC-SD-16	Sediment DUSTIN MORIN & RYAN STUBBS	Grab	SVOA+PAHS+PCB+TOC(14), TAL METALS + Hg(14)	A (ice), B (ice) (2)	EPAFMC11	04/24/2012 15:45	-12

Special Instructions:		Shipment for Case Complete? N
Analysis Key		Samples Transferred From Chain of Custody #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Cocleins + Samples	Newliner Barrios	4/24/12	MJ								

No: EPAFMC 4-24-12
Lab: PEL/SPECTRUM LAB
Lab contact: KEVIN DUNHAM
Lab Phone: 813-888-9507

3505843
NW

CHAIN OF CUSTODY RECORD
Site #: 1392
Project Number: OTIE-FIVE MILE CREEK
Cooler #: [REDACTED]

USEPA Region 4 COC (LAB COPY)
Date Shipped: 4/24/2012
Carrier Name: FedEx
Airbill No: 875585709764

Sample #	Media/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use
EPAFMC-SW-01	Surface Water/ DUSTIN MORIN & RYAN STUBBS	Grab	SYOA+PAHs(14), PCB(14), TAL METALS + Hg(14) Hazardous sm 2.5 to 5g	A (ice), B (ice), C (ice) (5)	EPAFMC11	04/24/2012 15:40	-13
EPAFMC-SW-03	Surface Water/ DUSTIN MORIN & RYAN STUBBS	Grab	SYOA+PAHs(14), PCB(14), TAL METALS + Hg(14) Hazardous sm 2.5 to 5g	A (ice), B (ice), C (ice) (5)	EPAFMC11	04/24/2012 15:45	-14

Special Instructions:
Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
coolers + samples	Nairner Bottles	4/24/12					MZ			4-24-12	9:35

Analysis Key

Recipient's Copy

Packages up to 150 lbs.
For packages over 150 lbs., use the new
FedEx Express Freight US Airbill.

2 or 3 Business Days
NEW FedEx 2Day A.M.
Second business morning.
Saturday Delivery NOT available.

Next Business Day
FedEx First Overnight
Earliest next business morning delivery to select
Monday unless SATURDAY Delivery is selected.

FedEx 2Day
Next business morning * Friday shipments will be
delivered on Monday unless SATURDAY Delivery
is selected.

FedEx Express Saver
Next business afternoon.*
Saturday Delivery NOT available.

FedEx Standard Overnight
Next business afternoon.*
Saturday Delivery NOT available.

FedEx Priority Overnight
Next business morning * Friday shipments will be
delivered on Monday unless SATURDAY Delivery
is selected.

FedEx First Overnight
Earliest next business morning delivery to select
Monday unless SATURDAY Delivery is selected.

FedEx 2Day A.M.
Second business morning.
Saturday Delivery NOT available.

FedEx 2Day
Next business morning * Friday shipments will be
delivered on Monday unless SATURDAY Delivery
is selected.

FedEx Express Saver
Next business afternoon.*
Saturday Delivery NOT available.

FedEx Standard Overnight
Next business afternoon.*
Saturday Delivery NOT available.

FedEx Priority Overnight
Next business morning * Friday shipments will be
delivered on Monday unless SATURDAY Delivery
is selected.

FedEx First Overnight
Earliest next business morning delivery to select
Monday unless SATURDAY Delivery is selected.

FedEx 2Day A.M.
Second business morning.
Saturday Delivery NOT available.

FedEx 2Day
Next business morning * Friday shipments will be
delivered on Monday unless SATURDAY Delivery
is selected.

FedEx Express Saver
Next business afternoon.*
Saturday Delivery NOT available.

FedEx Standard Overnight
Next business afternoon.*
Saturday Delivery NOT available.

FedEx Priority Overnight
Next business morning * Friday shipments will be
delivered on Monday unless SATURDAY Delivery
is selected.

FedEx First Overnight
Earliest next business morning delivery to select
Monday unless SATURDAY Delivery is selected.

FedEx 2Day A.M.
Second business morning.
Saturday Delivery NOT available.

FedEx 2Day
Next business morning * Friday shipments will be
delivered on Monday unless SATURDAY Delivery
is selected.

FedEx Express Saver
Next business afternoon.*
Saturday Delivery NOT available.

FedEx Standard Overnight
Next business afternoon.*
Saturday Delivery NOT available.

FedEx Priority Overnight
Next business morning * Friday shipments will be
delivered on Monday unless SATURDAY Delivery
is selected.

FedEx First Overnight
Earliest next business morning delivery to select
Monday unless SATURDAY Delivery is selected.

FedEx 2Day A.M.
Second business morning.
Saturday Delivery NOT available.

FedEx 2Day
Next business morning * Friday shipments will be
delivered on Monday unless SATURDAY Delivery
is selected.

FedEx Express Saver
Next business afternoon.*
Saturday Delivery NOT available.

FedEx Standard Overnight
Next business afternoon.*
Saturday Delivery NOT available.

FedEx Priority Overnight
Next business morning * Friday shipments will be
delivered on Monday unless SATURDAY Delivery
is selected.

FedEx First Overnight
Earliest next business morning delivery to select
Monday unless SATURDAY Delivery is selected.

FedEx 2Day A.M.
Second business morning.
Saturday Delivery NOT available.

FedEx 2Day
Next business morning * Friday shipments will be
delivered on Monday unless SATURDAY Delivery
is selected.

4 Express Package Service
To most locations.

5 Packaging
Declared value limit \$500.
FedEx Envelope*
FedEx Pak*
FedEx Box
FedEx Tube
Other

6 Special Handling and Delivery Signature Options
SATURDAY Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

7 Payment Bill to:
Enter FedEx Acct. No. or Credit Card No. below.
Sender's Section 1 will be billed.
Recipient
Third Party
Credit Card
Cash/Check

8 Total Packages
Total Weight
Credit Card Amt.

9 Dangerous Goods
Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

10 Signature Required
No Signature Required
Direct Signature
Indirect Signature

11 Signature Required
No Signature Required
Direct Signature
Indirect Signature

12 Signature Required
No Signature Required
Direct Signature
Indirect Signature

13 Signature Required
No Signature Required
Direct Signature
Indirect Signature

14 Signature Required
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17 Signature Required
No Signature Required
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18 Signature Required
No Signature Required
Direct Signature
Indirect Signature

19 Signature Required
No Signature Required
Direct Signature
Indirect Signature

20 Signature Required
No Signature Required
Direct Signature
Indirect Signature

FedEx NEW Package
Express
Tracking Number
8755 8570 9764

1 From This portion can be removed for Recipient's records.
Date
Sender's Name
Company
Address
City
State
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2 Your Internal Billing Reference
City
State
ZIP

3 To
Recipients Name
Phone
Company
Address
City
State
ZIP

4 Recipient's Address
Address
City
State
ZIP

5 Recipient's Address
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3605843

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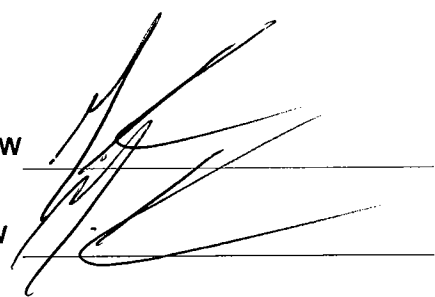
SAMPLE RECEIPT CONFIRMATION SHEET

Client Information			
SDG:	3505843	Req:	91088
Client:	OTIE	Project:	Five Mile Creek
Level:	4	Date Rec'd:	4/25/2012 9:25:00 AM
Rec'd via:	Fed-Ex	Due Date:	5/9/2012

Sample Verification			
Samples/Cooler Secure?	<input type="text" value="Yes"/>	All Samples on COC accounted For?	<input type="text" value="Yes"/>
Temperature of Samples(Celsius)	<input type="text" value="2.6C/3.0C"/>	All Samples Rec'd Intact?	<input type="text" value="Yes"/>
pH Verified?	<input type="text" value="No"/>	Sample Vol. Sufficient For Analysis	<input type="text" value="Yes"/>
pH WNL?	<input type="text" value="No"/>	Samples Rec'd W/ Hold Time?	<input type="text" value="Yes"/>
Soil Origin (Domestic/Foreign):	<input type="text" value="Domestic"/>	Are All Samples to be Analyzed?	<input type="text" value="Yes"/>
Site Location/Project on COC?	<input type="text" value="Yes"/>	Correct Sample Containers?	<input type="text" value="Yes"/>
Client Project # on COC?	<input type="text" value="Yes"/>	COC Comments written on COC?	<input type="text" value="Yes"/>
Project Mgr. Indicated on COC?	<input type="text" value="Yes"/>	Samplers Initials on COC?	<input type="text" value="Yes"/>
COC relinquished/Dated by Client?	<input type="text" value="Yes"/>	Sample Date/Time Indicated?	<input type="text" value="Yes"/>
COC Received/Dated by SA?	<input type="text" value="Yes"/>	TAT Requested:	<input type="text" value="STD"/>
Specific Subcontract Indicated?	<input type="text" value="No"/>	Client Requests Verbal Results?	<input type="text" value="No"/>
Samples Received By	<input type="text" value="Fed-Ex"/>	Client Requests Faxed Results?	<input type="text" value="No"/>
SA to Conduct ALL Analyses?	<input type="text" value="Yes"/>		
Radioactivity Check?	<input type="text" value="No"/>		
COC Present?	<input type="text" value="Yes"/>		

LABEL REVIEW _____

PEER REVIEW _____



Client: OTIE

WONo: 3505843

Profile Name: Five Mile Creek

Profile #: 91088

MATRIX S

Sample #	Bottle	Parameter	Check	Received	Date
01	001	6010 Metals	In	Nicole Labus	4/25/2012 3:03:56 PM
01	001	6010 Metals	Out	Justin Bowman	4/26/2012 9:42:11 AM
01	001	6010 Metals	In	Justin Bowman	4/26/2012 6:04:30 PM
01	001	7471 Mercury	In	Nicole Labus	4/25/2012 3:03:57 PM
01	001	7471 Mercury	Out	Justin Bowman	4/26/2012 9:42:16 AM
01	001	7471 Mercury	In	Justin Bowman	4/26/2012 6:04:31 PM
01	001	8270 GCMS semivolatiles	In	Nicole Labus	4/25/2012 3:03:58 PM
01	001	8270 GCMS semivolatiles	Out	Tammy Reuter	5/9/2012 2:31:14 PM
01	001	8270 GCMS semivolatiles	In	Tammy Reuter	5/9/2012 2:31:31 PM
01	001	8270_SIM GCMS semivolatiles SIM	In	Nicole Labus	4/25/2012 3:03:58 PM
01	001	8270_SIM GCMS semivolatiles SIM	Out	Tammy Reuter	5/9/2012 3:04:21 PM
01	001	8270_SIM GCMS semivolatiles SIM	In	Tammy Reuter	5/9/2012 3:04:29 PM
01	001	9060MOD Total Organic Carbon	In	Nicole Labus	4/25/2012 3:03:59 PM
01	001	9060MOD Total Organic Carbon	Out	Devon Thompson	4/30/2012 8:40:56 AM
01	001	9060MOD Total Organic Carbon	In	Devon Thompson	4/30/2012 5:41:05 PM
01	001	Dry Weight Dry Weight	In	Nicole Labus	4/25/2012 3:03:59 PM
01	001	Dry Weight Dry Weight	Out	Justin Bowman	4/26/2012 9:42:19 AM
01	001	Dry Weight Dry Weight	In	Justin Bowman	4/26/2012 6:04:32 PM
01	001	Dry Weight Dry Weight	Out	Justin Bowman	4/30/2012 12:11:48 PM
01	001	Dry Weight Dry Weight	In	Devon Thompson	4/30/2012 5:41:06 PM
02	001	6010 Metals	In	Nicole Labus	4/25/2012 3:04:00 PM
02	001	6010 Metals	Out	Justin Bowman	4/26/2012 9:42:23 AM
02	001	6010 Metals	In	Justin Bowman	4/26/2012 6:04:35 PM
02	001	7471 Mercury	In	Nicole Labus	4/25/2012 3:04:00 PM
02	001	7471 Mercury	Out	Justin Bowman	4/26/2012 9:42:23 AM
02	001	7471 Mercury	In	Justin Bowman	4/26/2012 6:04:35 PM
02	001	8270 GCMS semivolatiles	In	Nicole Labus	4/25/2012 3:04:00 PM

WONo: 3505843

Profile Name: Five Mile Creek

Profile #: 91088

02	001	8270	GCMS semivolatile	Out	Tammy Reuter	5/9/2012 2:29:16 PM
02	001	8270	GCMS semivolatile	In	Tammy Reuter	5/9/2012 2:31:43 PM
02	001	8270_SIM	GCMS semivolatile SIM	In	Nicole Labus	4/25/2012 3:04:00 PM
02	001	8270_SIM	GCMS semivolatile SIM	Out	Tammy Reuter	5/4/2012 8:42:01 AM
02	001	8270_SIM	GCMS semivolatile SIM	In	Tammy Reuter	5/4/2012 5:07:40 PM
02	001	9060MOD	Total Organic Carbon	In	Nicole Labus	4/25/2012 3:04:00 PM
02	001	Dry Weight	Dry Weight	In	Nicole Labus	4/25/2012 3:04:00 PM
02	001	Dry Weight	Dry Weight	Out	Justin Bowman	4/26/2012 9:42:23 AM
02	001	Dry Weight	Dry Weight	In	Justin Bowman	4/26/2012 6:04:35 PM
03	001	6010	Metals	In	Nicole Labus	4/25/2012 3:04:03 PM
03	001	6010	Metals	Out	Justin Bowman	4/26/2012 9:42:25 AM
03	001	6010	Metals	In	Justin Bowman	4/26/2012 6:04:37 PM
03	001	7471	Mercury	In	Nicole Labus	4/25/2012 3:04:03 PM
03	001	7471	Mercury	Out	Justin Bowman	4/26/2012 9:42:25 AM
03	001	7471	Mercury	In	Justin Bowman	4/26/2012 6:04:37 PM
03	001	8270	GCMS semivolatile	In	Nicole Labus	4/25/2012 3:04:03 PM
03	001	8270	GCMS semivolatile	Out	Tammy Reuter	5/9/2012 2:28:52 PM
03	001	8270	GCMS semivolatile	In	Tammy Reuter	5/9/2012 2:31:33 PM
03	001	8270_SIM	GCMS semivolatile SIM	In	Nicole Labus	4/25/2012 3:04:03 PM
03	001	8270_SIM	GCMS semivolatile SIM	Out	Tammy Reuter	5/4/2012 8:41:59 AM
03	001	8270_SIM	GCMS semivolatile SIM	In	Tammy Reuter	5/4/2012 5:07:39 PM
03	001	9060MOD	Total Organic Carbon	In	Nicole Labus	4/25/2012 3:04:03 PM
03	001	Dry Weight	Dry Weight	In	Nicole Labus	4/25/2012 3:04:03 PM
03	001	Dry Weight	Dry Weight	Out	Justin Bowman	4/26/2012 9:42:25 AM
03	001	Dry Weight	Dry Weight	In	Justin Bowman	4/26/2012 6:04:37 PM
04	001	6010	Metals	In	Nicole Labus	4/25/2012 3:04:05 PM
04	002	6010	Metals	In	Nicole Labus	4/25/2012 3:04:08 PM
04	001	6010	Metals	Out	Justin Bowman	4/26/2012 9:42:27 AM
04	001	6010	Metals	In	Justin Bowman	4/26/2012 6:04:39 PM
04	001	7471	Mercury	In	Nicole Labus	4/25/2012 3:04:05 PM

5/11/2012 11:27:27 AM

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Profile Name: Five Mile Creek

Profile #: 91088

04	002	7471	Mercury	In	Nicole Labus	4/25/2012 3:04:08 PM
04	001	7471	Mercury	Out	Justin Bowman	4/26/2012 9:42:27 AM
04	001	7471	Mercury	In	Justin Bowman	4/26/2012 6:04:39 PM
04	002	8082	PCB	In	Nicole Labus	4/25/2012 9:25:00 AM
04	002	8082	PCB	Out	Tammy Reuter	4/27/2012 3:41:49 PM
04	002	8082	PCB	In	Tammy Reuter	4/27/2012 6:09:58 PM
04	001	8270	GCMS semivolatile	In	Nicole Labus	4/25/2012 3:04:05 PM
04	002	8270	GCMS semivolatile	In	Nicole Labus	4/25/2012 3:04:08 PM
04	001	8270	GCMS semivolatile	Out	Tammy Reuter	5/9/2012 2:28:54 PM
04	001	8270	GCMS semivolatile	In	Tammy Reuter	5/9/2012 2:31:35 PM
04	001	8270_SIM	GCMS semivolatile SIM	In	Nicole Labus	4/25/2012 3:04:05 PM
04	002	8270_SIM	GCMS semivolatile SIM	In	Nicole Labus	4/25/2012 3:04:08 PM
04	001	8270_SIM	GCMS semivolatile SIM	Out	Tammy Reuter	5/4/2012 8:42:04 AM
04	001	8270_SIM	GCMS semivolatile SIM	In	Tammy Reuter	5/4/2012 5:07:39 PM
04	001	9060MOD	Total Organic Carbon	In	Nicole Labus	4/25/2012 3:04:05 PM
04	002	9060MOD	Total Organic Carbon	In	Nicole Labus	4/25/2012 3:04:08 PM
04	002	9060MOD	Total Organic Carbon	Out	Devon Thompson	4/30/2012 8:41:03 AM
04	002	9060MOD	Total Organic Carbon	In	Devon Thompson	4/30/2012 5:41:09 PM
04	001	Dry Weight	Dry Weight	In	Nicole Labus	4/25/2012 3:04:05 PM
04	002	Dry Weight	Dry Weight	In	Nicole Labus	4/25/2012 3:04:08 PM
04	001	Dry Weight	Dry Weight	Out	Justin Bowman	4/26/2012 9:42:27 AM
04	001	Dry Weight	Dry Weight	In	Justin Bowman	4/26/2012 6:04:39 PM
04	002	Dry Weight	Dry Weight	Out	Justin Bowman	4/30/2012 12:11:52 PM
04	002	Dry Weight	Dry Weight	In	Devon Thompson	4/30/2012 5:41:09 PM
05	001	6010	Metals	In	Nicole Labus	4/25/2012 3:04:11 PM
05	002	6010	Metals	In	Nicole Labus	4/25/2012 3:04:13 PM
05	001	6010	Metals	Out	Justin Bowman	4/26/2012 9:42:29 AM
05	001	6010	Metals	In	Justin Bowman	4/26/2012 6:04:41 PM
05	001	7471	Mercury	In	Nicole Labus	4/25/2012 3:04:11 PM
05	002	7471	Mercury	In	Nicole Labus	4/25/2012 3:04:13 PM

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Profile Name: Five Mile Creek

Profile #: 91088

05	001	7471	Mercury	Out	Justin Bowman	4/26/2012 9:42:29 AM
05	001	7471	Mercury	In	Justin Bowman	4/26/2012 6:04:41 PM
05	001	8270	GCMS semivolatile	In	Nicole Labus	4/25/2012 3:04:11 PM
05	002	8270	GCMS semivolatile	In	Nicole Labus	4/25/2012 3:04:13 PM
05	002	8270	GCMS semivolatile	Out	Tammy Reuter	5/9/2012 2:29:01 PM
05	002	8270	GCMS semivolatile	In	Tammy Reuter	5/9/2012 2:31:36 PM
05	001	8270_SIM	GCMS semivolatile SIM	In	Nicole Labus	4/25/2012 3:04:11 PM
05	002	8270_SIM	GCMS semivolatile SIM	In	Nicole Labus	4/25/2012 3:04:13 PM
05	002	8270_SIM	GCMS semivolatile SIM	Out	Tammy Reuter	5/4/2012 8:41:44 AM
05	002	8270_SIM	GCMS semivolatile SIM	In	Tammy Reuter	5/4/2012 5:07:38 PM
05	001	9060MOD	Total Organic Carbon	In	Nicole Labus	4/25/2012 3:04:11 PM
05	002	9060MOD	Total Organic Carbon	In	Nicole Labus	4/25/2012 3:04:13 PM
05	001	9060MOD	Total Organic Carbon	Out	Devon Thompson	4/30/2012 8:41:05 AM
05	001	9060MOD	Total Organic Carbon	In	Devon Thompson	4/30/2012 5:41:12 PM
05	001	Dry Weight	Dry Weight	In	Nicole Labus	4/25/2012 3:04:11 PM
05	002	Dry Weight	Dry Weight	In	Nicole Labus	4/25/2012 3:04:13 PM
05	001	Dry Weight	Dry Weight	Out	Justin Bowman	4/26/2012 9:42:29 AM
05	001	Dry Weight	Dry Weight	In	Justin Bowman	4/26/2012 6:04:41 PM
05	001	Dry Weight	Dry Weight	Out	Justin Bowman	4/30/2012 12:11:57 PM
05	001	Dry Weight	Dry Weight	In	Devon Thompson	4/30/2012 5:41:12 PM
06	001	6010	Metals	In	Nicole Labus	4/25/2012 3:04:17 PM
06	002	6010	Metals	In	Nicole Labus	4/25/2012 3:04:20 PM
06	001	6010	Metals	Out	Justin Bowman	4/26/2012 9:42:31 AM
06	001	6010	Metals	In	Justin Bowman	4/26/2012 6:04:44 PM
06	001	7471	Mercury	In	Nicole Labus	4/25/2012 3:04:17 PM
06	002	7471	Mercury	In	Nicole Labus	4/25/2012 3:04:20 PM
06	001	7471	Mercury	Out	Justin Bowman	4/26/2012 9:42:31 AM
06	001	7471	Mercury	In	Justin Bowman	4/26/2012 6:04:44 PM
06	001	8270	GCMS semivolatile	In	Nicole Labus	4/25/2012 3:04:17 PM
06	002	8270	GCMS semivolatile	In	Nicole Labus	4/25/2012 3:04:20 PM

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Profile Name: Five Mile Creek

Profile #: 91088

06	001	8270	GCMS semivolatile	Out	Tammy Reuter	5/9/2012 2:29:08 PM
06	001	8270	GCMS semivolatile	In	Tammy Reuter	5/9/2012 2:31:39 PM
06	001	8270_SIM	GCMS semivolatile SIM	In	Nicole Labus	4/25/2012 3:04:17 PM
06	002	8270_SIM	GCMS semivolatile SIM	In	Nicole Labus	4/25/2012 3:04:20 PM
06	001	8270_SIM	GCMS semivolatile SIM	Out	Tammy Reuter	5/4/2012 8:41:55 AM
06	001	8270_SIM	GCMS semivolatile SIM	In	Tammy Reuter	5/4/2012 5:07:31 PM
06	001	9060MOD	Total Organic Carbon	In	Nicole Labus	4/25/2012 3:04:17 PM
06	002	9060MOD	Total Organic Carbon	In	Nicole Labus	4/25/2012 3:04:20 PM
06	002	9060MOD	Total Organic Carbon	Out	Devon Thompson	4/30/2012 8:41:06 AM
06	002	9060MOD	Total Organic Carbon	In	Devon Thompson	4/30/2012 5:41:14 PM
06	001	Dry Weight	Dry Weight	In	Nicole Labus	4/25/2012 3:04:17 PM
06	002	Dry Weight	Dry Weight	In	Nicole Labus	4/25/2012 3:04:20 PM
06	001	Dry Weight	Dry Weight	Out	Justin Bowman	4/26/2012 9:42:31 AM
06	001	Dry Weight	Dry Weight	In	Justin Bowman	4/26/2012 6:04:44 PM
06	002	Dry Weight	Dry Weight	Out	Justin Bowman	4/30/2012 12:12:01 PM
06	002	Dry Weight	Dry Weight	In	Devon Thompson	4/30/2012 5:41:14 PM
07	002	6010	Metals	In	Nicole Labus	4/25/2012 3:04:24 PM
07	001	6010	Metals	In	Nicole Labus	4/25/2012 3:04:27 PM
07	002	6010	Metals	Out	Justin Bowman	4/26/2012 9:42:34 AM
07	002	6010	Metals	In	Justin Bowman	4/26/2012 6:04:46 PM
07	002	7471	Mercury	In	Nicole Labus	4/25/2012 3:04:24 PM
07	001	7471	Mercury	In	Nicole Labus	4/25/2012 3:04:27 PM
07	002	7471	Mercury	Out	Justin Bowman	4/26/2012 9:42:34 AM
07	002	7471	Mercury	In	Justin Bowman	4/26/2012 6:04:46 PM
07	002	8270	GCMS semivolatile	In	Nicole Labus	4/25/2012 3:04:24 PM
07	001	8270	GCMS semivolatile	In	Nicole Labus	4/25/2012 3:04:27 PM
07	002	8270	GCMS semivolatile	Out	Tammy Reuter	5/9/2012 2:29:12 PM
07	002	8270	GCMS semivolatile	In	Tammy Reuter	5/9/2012 2:31:42 PM
07	002	8270_SIM	GCMS semivolatile SIM	In	Nicole Labus	4/25/2012 3:04:24 PM
07	001	8270_SIM	GCMS semivolatile SIM	In	Nicole Labus	4/25/2012 3:04:27 PM

5/11/2012 11:27:27 AM

Spectrum Analytical, Inc.

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Profile Name: Five Mile Creek

Profile #: 91088

07	002	8270_SIM	GCMS semivolatiles SIM	Out	Tammy Reuter	5/4/2012 8:41:41 AM
07	002	8270_SIM	GCMS semivolatiles SIM	In	Tammy Reuter	5/4/2012 5:07:36 PM
07	002	9060MOD	Total Organic Carbon	In	Nicole Labus	4/25/2012 3:04:24 PM
07	001	9060MOD	Total Organic Carbon	In	Nicole Labus	4/25/2012 3:04:27 PM
07	001	9060MOD	Total Organic Carbon	Out	Devon Thompson	4/30/2012 8:41:08 AM
07	001	9060MOD	Total Organic Carbon	In	Devon Thompson	4/30/2012 5:41:17 PM
07	002	Dry Weight	Dry Weight	In	Nicole Labus	4/25/2012 3:04:24 PM
07	001	Dry Weight	Dry Weight	In	Nicole Labus	4/25/2012 3:04:27 PM
07	002	Dry Weight	Dry Weight	Out	Justin Bowman	4/26/2012 9:42:34 AM
07	002	Dry Weight	Dry Weight	In	Justin Bowman	4/26/2012 6:04:46 PM
07	001	Dry Weight	Dry Weight	Out	Justin Bowman	4/30/2012 12:12:04 PM
07	001	Dry Weight	Dry Weight	In	Devon Thompson	4/30/2012 5:41:17 PM
08	002	6010	Metals	In	Nicole Labus	4/25/2012 3:04:31 PM
08	001	6010	Metals	In	Nicole Labus	4/25/2012 3:04:34 PM
08	002	6010	Metals	Out	Justin Bowman	4/26/2012 9:42:35 AM
08	002	6010	Metals	In	Justin Bowman	4/26/2012 6:04:47 PM
08	002	7471	Mercury	In	Nicole Labus	4/25/2012 3:04:31 PM
08	001	7471	Mercury	In	Nicole Labus	4/25/2012 3:04:34 PM
08	002	7471	Mercury	Out	Justin Bowman	4/26/2012 9:42:35 AM
08	002	7471	Mercury	In	Justin Bowman	4/26/2012 6:04:47 PM
08	002	8082	PCB	In	Nicole Labus	4/25/2012 9:25:00 AM
08	002	8082	PCB	Out	Tammy Reuter	4/27/2012 3:41:51 PM
08	002	8082	PCB	In	Tammy Reuter	4/27/2012 6:09:57 PM
08	002	8270	GCMS semivolatiles	In	Nicole Labus	4/25/2012 3:04:31 PM
08	001	8270	GCMS semivolatiles	In	Nicole Labus	4/25/2012 3:04:34 PM
08	001	8270	GCMS semivolatiles	Out	Tammy Reuter	5/9/2012 2:29:10 PM
08	001	8270	GCMS semivolatiles	In	Tammy Reuter	5/9/2012 2:31:41 PM
08	002	8270_SIM	GCMS semivolatiles SIM	In	Nicole Labus	4/25/2012 3:04:31 PM
08	001	8270_SIM	GCMS semivolatiles SIM	In	Nicole Labus	4/25/2012 3:04:34 PM
08	001	8270_SIM	GCMS semivolatiles SIM	Out	Tammy Reuter	5/4/2012 8:41:49 AM

5/11/2012 11:27:27 AM

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Profile Name: Five Mile Creek

Profile #: 91088

08	001	8270_SIM	GCMS semivolatiles SIM	In	Tammy Reuter	5/4/2012 5:07:25 PM
08	002	9060MOD	Total Organic Carbon	In	Nicole Labus	4/25/2012 3:04:31 PM
08	001	9060MOD	Total Organic Carbon	In	Nicole Labus	4/25/2012 3:04:34 PM
08	002	9060MOD	Total Organic Carbon	Out	Devon Thompson	4/30/2012 8:41:15 AM
08	002	9060MOD	Total Organic Carbon	In	Devon Thompson	4/30/2012 5:41:19 PM
08	002	Dry Weight	Dry Weight	In	Nicole Labus	4/25/2012 3:04:31 PM
08	001	Dry Weight	Dry Weight	In	Nicole Labus	4/25/2012 3:04:34 PM
08	002	Dry Weight	Dry Weight	Out	Justin Bowman	4/26/2012 9:42:35 AM
08	002	Dry Weight	Dry Weight	In	Justin Bowman	4/26/2012 6:04:47 PM
08	002	Dry Weight	Dry Weight	Out	Justin Bowman	4/30/2012 12:12:07 PM
08	002	Dry Weight	Dry Weight	In	Devon Thompson	4/30/2012 5:41:19 PM
09	001	6010	Metals	In	Nicole Labus	4/25/2012 3:04:37 PM
09	002	6010	Metals	In	Nicole Labus	4/25/2012 3:04:39 PM
09	001	6010	Metals	Out	Justin Bowman	4/26/2012 9:42:37 AM
09	001	6010	Metals	In	Justin Bowman	4/26/2012 6:04:48 PM
09	001	7471	Mercury	In	Nicole Labus	4/25/2012 3:04:37 PM
09	002	7471	Mercury	In	Nicole Labus	4/25/2012 3:04:39 PM
09	001	7471	Mercury	Out	Justin Bowman	4/26/2012 9:42:37 AM
09	001	7471	Mercury	In	Justin Bowman	4/26/2012 6:04:48 PM
09	001	8270	GCMS semivolatiles	In	Nicole Labus	4/25/2012 3:04:37 PM
09	002	8270	GCMS semivolatiles	In	Nicole Labus	4/25/2012 3:04:39 PM
09	002	8270	GCMS semivolatiles	Out	Tammy Reuter	5/9/2012 2:28:59 PM
09	002	8270	GCMS semivolatiles	In	Tammy Reuter	5/9/2012 2:31:34 PM
09	001	8270_SIM	GCMS semivolatiles SIM	In	Nicole Labus	4/25/2012 3:04:37 PM
09	002	8270_SIM	GCMS semivolatiles SIM	In	Nicole Labus	4/25/2012 3:04:39 PM
09	002	8270_SIM	GCMS semivolatiles SIM	Out	Tammy Reuter	5/4/2012 8:41:35 AM
09	002	8270_SIM	GCMS semivolatiles SIM	In	Tammy Reuter	5/4/2012 5:07:26 PM
09	001	9060MOD	Total Organic Carbon	In	Nicole Labus	4/25/2012 3:04:37 PM
09	002	9060MOD	Total Organic Carbon	In	Nicole Labus	4/25/2012 3:04:39 PM

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Profile Name: Five Mile Creek

Profile #: 91088

09	001	9060MOD	Total Organic Carbon	Out	Devon Thompson	4/30/2012 8:41:16 AM
09	001	9060MOD	Total Organic Carbon	In	Devon Thompson	4/30/2012 5:41:21 PM
09	001	Dry Weight	Dry Weight	In	Nicole Labus	4/25/2012 3:04:37 PM
09	002	Dry Weight	Dry Weight	In	Nicole Labus	4/25/2012 3:04:39 PM
09	001	Dry Weight	Dry Weight	Out	Justin Bowman	4/26/2012 9:42:37 AM
09	001	Dry Weight	Dry Weight	In	Justin Bowman	4/26/2012 6:04:48 PM
09	001	Dry Weight	Dry Weight	Out	Justin Bowman	4/30/2012 12:12:10 PM
09	001	Dry Weight	Dry Weight	In	Devon Thompson	4/30/2012 5:41:21 PM
10	001	6010	Metals	In	Nicole Labus	4/25/2012 3:04:42 PM
10	002	6010	Metals	In	Nicole Labus	4/25/2012 3:04:44 PM
10	001	6010	Metals	Out	Justin Bowman	4/26/2012 9:42:39 AM
10	001	6010	Metals	In	Justin Bowman	4/26/2012 6:04:50 PM
10	001	7471	Mercury	In	Nicole Labus	4/25/2012 3:04:42 PM
10	002	7471	Mercury	In	Nicole Labus	4/25/2012 3:04:44 PM
10	001	7471	Mercury	Out	Justin Bowman	4/26/2012 9:42:39 AM
10	001	7471	Mercury	In	Justin Bowman	4/26/2012 6:04:50 PM
10	001	8270	GCMS semivolatile	In	Nicole Labus	4/25/2012 3:04:42 PM
10	002	8270	GCMS semivolatile	In	Nicole Labus	4/25/2012 3:04:44 PM
10	002	8270	GCMS semivolatile	Out	Tammy Reuter	5/9/2012 2:29:20 PM
10	002	8270	GCMS semivolatile	In	Tammy Reuter	5/9/2012 2:31:44 PM
10	001	8270_SIM	GCMS semivolatile SIM	In	Nicole Labus	4/25/2012 3:04:42 PM
10	002	8270_SIM	GCMS semivolatile SIM	In	Nicole Labus	4/25/2012 3:04:44 PM
10	002	8270_SIM	GCMS semivolatile SIM	Out	Tammy Reuter	5/4/2012 8:41:53 AM
10	002	8270_SIM	GCMS semivolatile SIM	In	Tammy Reuter	5/4/2012 5:07:05 PM
10	001	9060MOD	Total Organic Carbon	In	Nicole Labus	4/25/2012 3:04:42 PM
10	002	9060MOD	Total Organic Carbon	In	Nicole Labus	4/25/2012 3:04:44 PM
10	001	9060MOD	Total Organic Carbon	Out	Devon Thompson	4/30/2012 8:41:16 AM
10	001	9060MOD	Total Organic Carbon	In	Devon Thompson	4/30/2012 5:41:22 PM
10	001	Dry Weight	Dry Weight	In	Nicole Labus	4/25/2012 3:04:42 PM
10	002	Dry Weight	Dry Weight	In	Nicole Labus	4/25/2012 3:04:44 PM

5/11/2012 11:27:27 AM

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Profile Name: Five Mile Creek

Profile #: 91088

10	001	Dry Weight	Dry Weight	Out	Justin Bowman	4/26/2012 9:42:39 AM
10	001	Dry Weight	Dry Weight	In	Justin Bowman	4/26/2012 6:04:50 PM
10	001	Dry Weight	Dry Weight	Out	Justin Bowman	4/30/2012 12:12:14 PM
10	001	Dry Weight	Dry Weight	In	Devon Thompson	4/30/2012 5:41:22 PM
11	001	6010	Metals	In	Nicole Labus	4/25/2012 3:04:46 PM
11	002	6010	Metals	In	Nicole Labus	4/25/2012 3:04:48 PM
11	002	6010	Metals	Out	Justin Bowman	4/26/2012 9:42:41 AM
11	002	6010	Metals	In	Justin Bowman	4/26/2012 6:04:51 PM
11	001	7471	Mercury	In	Nicole Labus	4/25/2012 3:04:46 PM
11	002	7471	Mercury	In	Nicole Labus	4/25/2012 3:04:48 PM
11	002	7471	Mercury	Out	Justin Bowman	4/26/2012 9:42:41 AM
11	002	7471	Mercury	In	Justin Bowman	4/26/2012 6:04:51 PM
11	001	8270	GCMS semivolatile	In	Nicole Labus	4/25/2012 3:04:46 PM
11	002	8270	GCMS semivolatile	In	Nicole Labus	4/25/2012 3:04:48 PM
11	001	8270	GCMS semivolatile	Out	Tammy Reuter	5/9/2012 2:29:18 PM
11	001	8270	GCMS semivolatile	In	Tammy Reuter	5/9/2012 2:31:40 PM
11	001	8270_SIM	GCMS semivolatile SIM	In	Nicole Labus	4/25/2012 3:04:46 PM
11	002	8270_SIM	GCMS semivolatile SIM	In	Nicole Labus	4/25/2012 3:04:48 PM
11	001	8270_SIM	GCMS semivolatile SIM	Out	Tammy Reuter	5/4/2012 8:41:52 AM
11	001	8270_SIM	GCMS semivolatile SIM	In	Tammy Reuter	5/4/2012 5:07:16 PM
11	001	9060MOD	Total Organic Carbon	In	Nicole Labus	4/25/2012 3:04:46 PM
11	002	9060MOD	Total Organic Carbon	In	Nicole Labus	4/25/2012 3:04:48 PM
11	002	9060MOD	Total Organic Carbon	Out	Devon Thompson	4/30/2012 8:41:16 AM
11	002	9060MOD	Total Organic Carbon	In	Devon Thompson	4/30/2012 5:41:24 PM
11	001	Dry Weight	Dry Weight	In	Nicole Labus	4/25/2012 3:04:46 PM
11	002	Dry Weight	Dry Weight	In	Nicole Labus	4/25/2012 3:04:48 PM
11	002	Dry Weight	Dry Weight	Out	Justin Bowman	4/26/2012 9:42:41 AM
11	002	Dry Weight	Dry Weight	In	Justin Bowman	4/26/2012 6:04:51 PM
11	002	Dry Weight	Dry Weight	Out	Justin Bowman	4/30/2012 12:12:18 PM
11	002	Dry Weight	Dry Weight	In	Devon Thompson	4/30/2012 5:41:24 PM

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Profile Name: Five Mile Creek

Profile #: 91088

12	002	6010	Metals	In	Nicole Labus	4/25/2012 3:04:51 PM
12	001	6010	Metals	In	Nicole Labus	4/25/2012 3:04:53 PM
12	001	6010	Metals	Out	Justin Bowman	4/26/2012 9:42:42 AM
12	001	6010	Metals	In	Justin Bowman	4/26/2012 6:04:53 PM
12	002	7471	Mercury	In	Nicole Labus	4/25/2012 3:04:51 PM
12	001	7471	Mercury	In	Nicole Labus	4/25/2012 3:04:53 PM
12	001	7471	Mercury	Out	Justin Bowman	4/26/2012 9:42:42 AM
12	001	7471	Mercury	In	Justin Bowman	4/26/2012 6:04:53 PM
12	001	8082	PCB	In	Nicole Labus	4/25/2012 9:25:00 AM
12	001	8082	PCB	Out	Tammy Reuter	4/27/2012 3:41:46 PM
12	001	8082	PCB	In	Tammy Reuter	4/27/2012 6:09:55 PM
12	002	8270	GCMS semivolatile	In	Nicole Labus	4/25/2012 3:04:51 PM
12	001	8270	GCMS semivolatile	In	Nicole Labus	4/25/2012 3:04:53 PM
12	002	8270	GCMS semivolatile	Out	Tammy Reuter	5/9/2012 2:29:06 PM
12	002	8270	GCMS semivolatile	In	Tammy Reuter	5/9/2012 2:31:38 PM
12	002	8270_SIM	GCMS semivolatile SIM	In	Nicole Labus	4/25/2012 3:04:51 PM
12	001	8270_SIM	GCMS semivolatile SIM	In	Nicole Labus	4/25/2012 3:04:53 PM
12	002	8270_SIM	GCMS semivolatile SIM	Out	Tammy Reuter	5/4/2012 8:41:38 AM
12	002	8270_SIM	GCMS semivolatile SIM	In	Tammy Reuter	5/4/2012 5:07:22 PM
12	002	9060MOD	Total Organic Carbon	In	Nicole Labus	4/25/2012 3:04:51 PM
12	001	9060MOD	Total Organic Carbon	In	Nicole Labus	4/25/2012 3:04:53 PM
12	001	9060MOD	Total Organic Carbon	Out	Devon Thompson	4/30/2012 8:41:19 AM
12	001	9060MOD	Total Organic Carbon	In	Devon Thompson	4/30/2012 5:41:26 PM
12	002	Dry Weight	Dry Weight	In	Nicole Labus	4/25/2012 3:04:51 PM
12	001	Dry Weight	Dry Weight	In	Nicole Labus	4/25/2012 3:04:53 PM
12	001	Dry Weight	Dry Weight	Out	Justin Bowman	4/26/2012 9:42:42 AM
12	001	Dry Weight	Dry Weight	In	Justin Bowman	4/26/2012 6:04:53 PM
12	001	Dry Weight	Dry Weight	Out	Justin Bowman	4/30/2012 12:12:21 PM
12	001	Dry Weight	Dry Weight	In	Devon Thompson	4/30/2012 5:41:26 PM

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Profile Name: Five Mile Creek

Profile #: 91088

MATRIX W

Sample #	Bottle	Parameter	Check	Received	Date
13	001	2340B Hardness By Calculation	In	Nicole Labus	4/25/2012 3:03:18 PM
13	001	2340B Hardness By Calculation	Out	Justin Bowman	4/26/2012 9:39:03 AM
13	001	2340B Hardness By Calculation	In	Justin Bowman	4/26/2012 6:01:46 PM
13	001	6010 Metals	In	Nicole Labus	4/25/2012 3:03:06 PM
13	001	6010 Metals	Out	Justin Bowman	4/26/2012 9:39:04 AM
13	001	6010 Metals	In	Justin Bowman	4/26/2012 6:01:50 PM
13	001	6010 Metals	Out	Justin Bowman	4/30/2012 9:50:50 AM
13	001	6010 Metals	In	Justin Bowman	4/30/2012 11:50:59 AM
13	001	7470 Mercury	In	Nicole Labus	4/25/2012 3:03:09 PM
13	001	7470 Mercury	Out	Justin Bowman	4/26/2012 9:39:05 AM
13	001	7470 Mercury	In	Justin Bowman	4/26/2012 6:01:51 PM
13	001	7841 Thallium (GFAA)	In	Nicole Labus	4/25/2012 3:03:09 PM
13	001	7841 Thallium (GFAA)	Out	Justin Bowman	4/26/2012 9:39:20 AM
13	001	7841 Thallium (GFAA)	In	Justin Bowman	4/26/2012 6:01:51 PM
13	003	8082 PCB	In	Nicole Labus	4/25/2012 3:02:39 PM
13	002	8082 PCB	In	Nicole Labus	4/25/2012 3:02:40 PM
13	003	8082 PCB	Consumed	Duffie Young	4/25/2012 7:24:24 PM
13	005	8270 GCMS semivolatitle	In	Nicole Labus	4/25/2012 3:02:49 PM
13	004	8270_SIM GCMS semivolatitle SIM	In	Nicole Labus	4/25/2012 3:02:56 PM
14	001	2340B Hardness By Calculation	In	Nicole Labus	4/25/2012 3:03:12 PM
14	001	2340B Hardness By Calculation	Out	Justin Bowman	4/26/2012 9:39:25 AM
14	001	2340B Hardness By Calculation	In	Justin Bowman	4/26/2012 6:01:54 PM
14	001	6010 Metals	In	Nicole Labus	4/25/2012 3:03:10 PM
14	001	6010 Metals	Out	Justin Bowman	4/26/2012 9:39:25 AM
14	001	6010 Metals	In	Justin Bowman	4/26/2012 6:01:54 PM
14	001	6010 Metals	Out	Justin Bowman	4/30/2012 9:50:42 AM
14	001	6010 Metals	In	Justin Bowman	4/30/2012 11:50:51 AM
14	001	7470 Mercury	In	Nicole Labus	4/25/2012 3:03:10 PM

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Profile Name: Five Mile Creek

Profile #: 91088

14	001	7470	Mercury	Out	Justin Bowman	4/26/2012 9:39:25 AM
14	001	7470	Mercury	In	Justin Bowman	4/26/2012 6:01:54 PM
14	001	7841	Thallium (GFAA)	In	Nicole Labus	4/25/2012 3:03:10 PM
14	001	7841	Thallium (GFAA)	Out	Justin Bowman	4/26/2012 9:39:25 AM
14	001	7841	Thallium (GFAA)	In	Justin Bowman	4/26/2012 6:01:54 PM
14	003	8082	PCB	In	Nicole Labus	4/25/2012 3:02:40 PM
14	002	8082	PCB	In	Nicole Labus	4/25/2012 3:02:41 PM
14	003	8082	PCB	Consumed	Duffie Young	4/25/2012 7:24:22 PM
14	005	8270	GCMS semivolatiles	In	Nicole Labus	4/25/2012 3:02:50 PM
14	004	8270_SIM	GCMS semivolatiles SIM	In	Nicole Labus	4/25/2012 3:02:57 PM

Addendum

Letter of Acceptance

Customer Name: Oneida Total Integrated Enterprises
Date and Time Received: 4/25/2012 9:25:00 AM
Date to be Reported: 5/9/2012
Laboratory Submission Number/SDG: 3505843

Project: OTIE- Five Mile Creek / Site 1392

Samples: The submission consisted of 14 samples, including QC, with sample identification shown in the attached data tables.

Tests: The Samples will be analyzed for EPA methods: 2340B, 6010, 7470, 7471, 7841, 8082, 8270, 8270_SIM, 9060MOD.

Sample Custody/COC discrepancies:

None.

Notes:

Temp 3.0C, 2.6C
6010 preserved in house
Hardness was added to the water samples per client.
8082, 8270, 8270SIM cancelled on samples -13 and -14 per client.
MS/MSD is not applicable for TOC.

Distribution of Report to:

Oneida Total Integrated Enterprises
Attn: Limari Krebs
(W): 678-355-5550
(F): 770-528-0167

Note: Submitted material will be retained for 30 days unless otherwise requested by client or consumed in analysis. Spectrum Analytical letters and reports are for the exclusive use of the client to whom they are addressed. Our letters and reports apply to the sample tested and are not necessarily indicative of the qualities of apparently identical or similar materials.

Log-in Report

Level: 4

Total of: 81 analyses on 22 samples (including QC)

28-Apr-12

Report/SDG #: 3505843

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
EPAFMC-SD-07	350584301	EPAFMC06	S	4/24/2012 11:25:00 AM	4/25/2012 9:25:00 AM

Method

6010	Metals	6010
7471	Mercury	7471
8270	GCMS semivolatile	8270
8270_SIM	GCMS semivolatile SIM	8270 SIM
9060MOD	Total Organic Carbon	9060 MOD
Dry Weight	Dry Weight	Dry Weight

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
EPAFMC-SD-07MS	350584302	EPAFMC06	S	4/24/2012 11:25:00 AM	4/25/2012 9:25:00 AM

Method

6010	Metals	6010
7471	Mercury	7471
8270	GCMS semivolatile	8270
8270_SIM	GCMS semivolatile SIM	8270 SIM
Dry Weight	Dry Weight	Dry Weight

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
EPAFMC-SD-07SD	350584303	EPAFMC06	S	4/24/2012 11:25:00 AM	4/25/2012 9:25:00 AM

Method

6010	Metals	6010
7471	Mercury	7471
8270	GCMS semivolatile	8270
8270_SIM	GCMS semivolatile SIM	8270 SIM
Dry Weight	Dry Weight	Dry Weight

Report/SDG #: 3505843

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
EPAFMC-SD-08	350584304	EPAFMC07	S	4/24/2012 11:37:00 AM	4/25/2012 9:25:00 AM

Method

6010	Metals	6010
7471	Mercury	7471
8082	PCB	8082
8270	GCMS semivolatile	8270
8270_SIM	GCMS semivolatile SIM	8270 SIM
9060MOD	Total Organic Carbon	9060 MOD
Dry Weight	Dry Weight	Dry Weight

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
EPAFMC-SD-09	350584305	EPAFMC08	S	4/24/2012 11:45:00 AM	4/25/2012 9:25:00 AM

Method

6010	Metals	6010
7471	Mercury	7471
8270	GCMS semivolatile	8270
8270_SIM	GCMS semivolatile SIM	8270 SIM
9060MOD	Total Organic Carbon	9060 MOD
Dry Weight	Dry Weight	Dry Weight

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
EPAFMC-SD-10	350584306	EPAFMC09	S	4/24/2012 1:43:00 PM	4/25/2012 9:25:00 AM

Method

6010	Metals	6010
7471	Mercury	7471
8270	GCMS semivolatile	8270
8270_SIM	GCMS semivolatile SIM	8270 SIM
9060MOD	Total Organic Carbon	9060 MOD
Dry Weight	Dry Weight	Dry Weight

Report/SDG #: 3505843

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
EPAFMC-SD-11	350584307	EPAFMC10	S	4/24/2012 2:25:00 PM	4/25/2012 9:25:00 AM

Method

6010	Metals	6010
7471	Mercury	7471
8270	GCMS semivolatile	8270
8270_SIM	GCMS semivolatile SIM	8270 SIM
9060MOD	Total Organic Carbon	9060 MOD
Dry Weight	Dry Weight	Dry Weight

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
EPAFMC-SD-12	350584308	EPAFMC11	S	4/24/2012 3:40:00 PM	4/25/2012 9:25:00 AM

Method

6010	Metals	6010
7471	Mercury	7471
8082	PCB	8082
8270	GCMS semivolatile	8270
8270_SIM	GCMS semivolatile SIM	8270 SIM
9060MOD	Total Organic Carbon	9060 MOD
Dry Weight	Dry Weight	Dry Weight

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
EPAFMC-SD-13	350584309	EPAFMC12	S	4/24/2012 3:04:00 PM	4/25/2012 9:25:00 AM

Method

6010	Metals	6010
7471	Mercury	7471
8270	GCMS semivolatile	8270
8270_SIM	GCMS semivolatile SIM	8270 SIM
9060MOD	Total Organic Carbon	9060 MOD
Dry Weight	Dry Weight	Dry Weight

Report/SDG #: 3505843

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
EPAFMC-SD-14	350584310	EPAFMC13	S	4/24/2012 3:35:00 PM	4/25/2012 9:25:00 AM

Method

6010	Metals	6010
7471	Mercury	7471
8270	GCMS semivolatile	8270
8270_SIM	GCMS semivolatile SIM	8270 SIM
9060MOD	Total Organic Carbon	9060 MOD
Dry Weight	Dry Weight	Dry Weight

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
EPAFMC-SD-15	350584311	EPAFMC14	S	4/24/2012 3:19:00 PM	4/25/2012 9:25:00 AM

Method

6010	Metals	6010
7471	Mercury	7471
8270	GCMS semivolatile	8270
8270_SIM	GCMS semivolatile SIM	8270 SIM
9060MOD	Total Organic Carbon	9060 MOD
Dry Weight	Dry Weight	Dry Weight

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
EPAFMC-SD-16	350584312	EPAFMC11	S	4/24/2012 3:45:00 PM	4/25/2012 9:25:00 AM

Method

6010	Metals	6010
7471	Mercury	7471
8082	PCB	8082
8270	GCMS semivolatile	8270
8270_SIM	GCMS semivolatile SIM	8270 SIM
9060MOD	Total Organic Carbon	9060 MOD
Dry Weight	Dry Weight	Dry Weight

Report/SDG #: 3505843

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
EPAFMC-SW-01	350584313	EPAFMC11	W	4/24/2012 3:40:00 PM	4/25/2012 9:25:00 AM

Method

2340B	Hardness By Calculation	A2340B
6010	Metals	6010
7470	Mercury	7470
7841	Thallium (GFAA)	7841

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
EPAFMC-SW-03	350584314	EPAFMC11	W	4/24/2012 3:45:00 PM	4/25/2012 9:25:00 AM

Method

2340B	Hardness By Calculation	A2340B
6010	Metals	6010
7470	Mercury	7470
7841	Thallium (GFAA)	7841

Mark Gudnason [Tampa]

From: Limari Krebs [LKrebs@otie.com]
Sent: Wednesday, April 25, 2012 10:03 AM
To: Mark Gudnason [Tampa]
Subject: Five Mile Creek - COC for samples received 4/25/12
Attachments: EPAFMC 4-24-12 SAMPLES lab copy.pdf

Hi Mark:

Just wanted to let you know that our field personnel did not include hardness analysis for the water samples collected last night. Please add Hardness analysis to the list.

Thanks,

Limari Krebs
START Sr. Chemist

Oneida Total Integrated Enterprises (OTIE)
1220 Kennestone Circle, Suite 106
Marietta, GA 30066
678.355.5550 x 5703 office
678.255.6412 cell
770.528.0167 fax
www.otie.com

Engineering, Science and Construction

Mark Gudnason [Tampa]

From: Mark Gudnason [Tampa]
Sent: Monday, April 30, 2012 8:47 AM
To: 'Russell Henderson'; Limari Krebs
Subject: FW: OTIE-Five Mile Creek: LOA3505843.pdf, LOA3505835.pdf

Attachments: COC3505843.pdf; COC3505835.pdf; LOA3505835.pdf; LOA3505843.pdf



COC3505843.pdf
(256 KB)



COC3505835.pdf
(210 KB)



LOA3505835.pdf
(20 KB)



LOA3505843.pdf
(25 KB)

Please note a correction on these LOAs.

MS/MSD is not applicable for TOC.

Mark

-----Original Message-----

From: Mark Gudnason [Tampa]
Sent: Saturday, April 28, 2012 11:44 AM
To: Russell Henderson; Limari Krebs
Subject: OTIE-Five Mile Creek: LOA3505843.pdf, LOA3505835.pdf

Good morning.

Please review the attached LOA (Letter of Acceptance) for accuracy and let me know of any changes prior to reporting.

Thank you,
Mark

The message is ready to be sent with the following file or link attachments:

LOA3505843.pdf
LOA3505835.pdf

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

Mark Gudnason [Tampa]

From: Mark Gudnason [Tampa]
Sent: Tuesday, May 08, 2012 7:43 PM
To: 'Limari Krebs'; 'Russell Henderson'
Subject: FW: 3505843-8270-OTIE

Good afternoon.

This will be in the case narrative for the referenced method and SDG.

A. Calibration:

All acceptance criteria were met. Spectrum Analytical Inc. does not analyze a low calibration standard at the requested RL for all analytes. The low calibration standard is 500 ug/Kg for the following analyte: Pentachlorophenol.

B. Blanks:

All acceptance criteria were met with the exception of:

Blank 128824MB was analyzed with the soil samples extracted on 05/03/12. The following analyte was detected below RL: Bis(2-ethylhexyl)phthalate at 144 ug/Kg. Since this compound was detected below the RL, no further action was taken.

Samples coded accordingly.

C. Surrogates:

All acceptance criteria were met with the exception of:

Sample EPAFMC-SD-14 was recovered below criteria for the following surrogates: 2-Fluorobiphenyl at 22.6 % with criteria of (30-115), Nitrobenzene-d5 at 12.9 % with criteria of (23-120). This sample contained low levels of late eluting, non-target compounds that may have interfered with surrogate recovery. Since the other four surrogates met criteria, no further action was taken.

Sample EPAFMC-SD-15 was recovered below criteria for the following surrogates: 2-Fluorobiphenyl at 15.3 % with criteria of (30-115), Nitrobenzene-d5 at 11.6 % with criteria of (23-120). This sample contained low levels of late eluting, non-target compounds that may have interfered with surrogate recovery. Since the other four surrogates met criteria, no further action was taken.

Samples coded accordingly.

D. Spikes:**1. Laboratory Control Spikes (LCS)**

All acceptance criteria were met with the exception of:

LCS 128825LCS was analyzed with the soil samples extracted on 05/03/12. The following analytes had marginal exceedance limit failures: Bis(2-ethylhexyl)phthalate at 162 % with criteria of (58.3-135.7). Bis(2-Ethylhexyl)phthalate is a common laboratory contaminant and that likely elevated spike recoveries. No further action was taken, since this compound was not detected in any samples.

Samples coded accordingly.

2. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

A client requested MS/SD set was analyzed. All percent recovery and relative percent difference (RPD) criteria were met with the exception of:

MS - EPAFMC-SD-07MS was analyzed with the soil samples extracted on 05/03/12. The following analytes were recovered below criteria: 2,4-Dinitrophenol at 0 % with criteria of (15-150), 4,6-Dinitro-2-methylphenol at 26.7 % with criteria of (40-130), Hexachlorocyclopentadiene at 6.1 % with criteria of (10-119).

SD - EPAFMC-SD-07SD was analyzed with the soil samples extracted on 05/03/12. The following analytes were recovered below criteria: 2,4-Dinitrophenol at 0 % with criteria of (15-150), 4,6-Dinitro-2-methylphenol at 31.8 % with criteria of (40-130), Hexachlorocyclopentadiene at 0 % with criteria of (10-119). The following analyte exceeded RPD criteria: Hexachlorocyclopentadiene at 200 % with criteria of (30).

Samples coded accordingly.

Mark Gudnason [Tampa]

From: Mark Gudnason [Tampa]
Sent: Wednesday, May 09, 2012 8:12 PM
To: 'Limari Krebs'
Cc: Brian Spann [Tampa]
Subject: OTIE-Five Mile Creek: 3505843-prelims.pdf, 3505835-prelims.pdf

Attachments: 3505843-prelims.pdf; 3505835-prelims.pdf



3505843-prelims.pdf
f (620 KB)



3505835-prelims.pdf
f (511 KB)

Attached are prelim results for the first two SDGs in the form of a level 2 report with case narratives, method blank and LCS data. Please note:

SDG 3505843 - The 8270SIM has not gone through final review.

SDG 3505843 - There are select samples being run for dilutions and final data may vary slightly.

Mark

The message is ready to be sent with the following file or link attachments:

3505843-prelims.pdf
3505835-prelims.pdf

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

EXECUTIVE SUMMARY - Detection Highlights

3505843

SAMPLE ID: EPAFMC-SD-07

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Hardness	61700		MG/KG	A2340B
Aluminum	5010 N	8.82	MG/KG	SW6010B
Antimony	0.660 J	0.882	MG/KG	SW6010B
Arsenic	18.1	0.882	MG/KG	SW6010B
Barium	37.2	0.441	MG/KG	SW6010B
Beryllium	0.399 J	0.441	MG/KG	SW6010B
Cadmium	8.64 N	0.441	MG/KG	SW6010B
Calcium	15900 N*	8.82	MG/KG	SW6010B
Chromium	63.3 N*	0.441	MG/KG	SW6010B
Cobalt	6.50	0.441	MG/KG	SW6010B
Copper	9.28	0.441	MG/KG	SW6010B
Iron	33200 *	4.41	MG/KG	SW6010B
Lead	21.7	0.705	MG/KG	SW6010B
Magnesium	5340 N*	8.82	MG/KG	SW6010B
Manganese	396 *	0.441	MG/KG	SW6010B
Nickel	9.53	0.441	MG/KG	SW6010B
Potassium	298 E	44.1	MG/KG	SW6010B
Sodium	67.4	26.4	MG/KG	SW6010B
Thallium	0.531 J	0.882	MG/KG	SW6010B
Vanadium	58.8 N	0.441	MG/KG	SW6010B
Zinc	142 N	0.882	MG/KG	SW6010B
Mercury	0.0156 J	0.0249	MG/KG	SW7471A
4-Methylphenol	88.1 J	280	UG/KG	SW8270D
Anthracene	75.6 J	280	UG/KG	SW8270D
Benzo(a)anthracene	449	280	UG/KG	SW8270D
Benzo(a)pyrene	400	280	UG/KG	SW8270D
Benzo(b)fluoranthene	526	280	UG/KG	SW8270D
Benzo(g,h,i)perylene	232 J	280	UG/KG	SW8270D
Benzo(k)fluoranthene	421	280	UG/KG	SW8270D
Chrysene	489	280	UG/KG	SW8270D
Dibenzo(a,h)anthracene	71.8 J	280	UG/KG	SW8270D
Fluoranthene	785	280	UG/KG	SW8270D
Indeno(1,2,3-cd)pyrene	204 J	280	UG/KG	SW8270D
Phenanthrene	230 J	280	UG/KG	SW8270D
Pyrene	667	280	UG/KG	SW8270D
1-Methylnaphthalene	8.00	3.5	UG/KG	SW8270D-SIM
2-Methylnaphthalene	21.0	3.5	UG/KG	SW8270D-SIM
Acenaphthene	9.00	3.5	UG/KG	SW8270D-SIM
Acenaphthylene	26.0	3.5	UG/KG	SW8270D-SIM

EXECUTIVE SUMMARY - Detection Highlights

3505843

Anthracene	53.2	3.5	UG/KG	SW8270D-SIM
Benzo(a)anthracene	186	3.5	UG/KG	SW8270D-SIM
Benzo(a)pyrene	153	3.5	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	213	3.5	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	90.9	3.5	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	89.3	3.5	UG/KG	SW8270D-SIM
Chrysene	185	3.5	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	29.2	3.5	UG/KG	SW8270D-SIM
Fluoranthene	318	3.5	UG/KG	SW8270D-SIM
Fluorene	23.6	3.5	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	81.0	3.5	UG/KG	SW8270D-SIM
Naphthalene	58.4	3.5	UG/KG	SW8270D-SIM
Phenanthrene	124	3.5	UG/KG	SW8270D-SIM
Pyrene	236	3.5	UG/KG	SW8270D-SIM
TOC	9740	494	MG/KG	SW9060

SAMPLE ID: EPAFMC-SD-08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Hardness	73300		MG/KG	A2340B
Aluminum	5600	8.20	MG/KG	SW6010B
Antimony	0.204 J	0.820	MG/KG	SW6010B
Arsenic	16.1	0.820	MG/KG	SW6010B
Barium	57.1	0.410	MG/KG	SW6010B
Beryllium	0.577	0.410	MG/KG	SW6010B
Calcium	17400	8.20	MG/KG	SW6010B
Chromium	68.2	0.410	MG/KG	SW6010B
Cobalt	8.45	0.410	MG/KG	SW6010B
Copper	19.3	0.410	MG/KG	SW6010B
Iron	37000	4.10	MG/KG	SW6010B
Lead	20.3	0.656	MG/KG	SW6010B
Magnesium	7250	8.20	MG/KG	SW6010B
Manganese	595	0.410	MG/KG	SW6010B
Nickel	10.1	0.410	MG/KG	SW6010B
Potassium	334	41.0	MG/KG	SW6010B
Sodium	74.2	24.6	MG/KG	SW6010B
Thallium	0.707 J	0.820	MG/KG	SW6010B
Vanadium	44.6	0.410	MG/KG	SW6010B
Zinc	140	0.820	MG/KG	SW6010B
Mercury	0.0182 J	0.0195	MG/KG	SW7471A

EXECUTIVE SUMMARY - Detection Highlights

3505843

Aroclor-1260	21.0 J	30	UG/KG	SW8082
Benzo(a)anthracene	172 J	220	UG/KG	SW8270D
Benzo(a)pyrene	129 J	220	UG/KG	SW8270D
Benzo(b)fluoranthene	210 J	220	UG/KG	SW8270D
Benzo(g,h,i)perylene	88.6 J	220	UG/KG	SW8270D
Benzo(k)fluoranthene	87.6 J	220	UG/KG	SW8270D
Chrysene	187 J	220	UG/KG	SW8270D
Fluoranthene	380	220	UG/KG	SW8270D
Indeno(1,2,3-cd)pyrene	79.2 J	220	UG/KG	SW8270D
Phenanthrene	215 J	220	UG/KG	SW8270D
Pyrene	317	220	UG/KG	SW8270D
1-Methylnaphthalene	4.50	2.7	UG/KG	SW8270D-SIM
2-Methylnaphthalene	9.60	2.7	UG/KG	SW8270D-SIM
Acenaphthene	25.2	2.7	UG/KG	SW8270D-SIM
Acenaphthylene	52.8	2.7	UG/KG	SW8270D-SIM
Anthracene	43.1	2.7	UG/KG	SW8270D-SIM
Benzo(a)anthracene	119	2.7	UG/KG	SW8270D-SIM
Benzo(a)pyrene	95.7	2.7	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	154	2.7	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	61.4	2.7	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	44.9	2.7	UG/KG	SW8270D-SIM
Chrysene	106	2.7	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	18.7	2.7	UG/KG	SW8270D-SIM
Fluoranthene	202	2.7	UG/KG	SW8270D-SIM
Fluorene	14.4	2.7	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	54.1	2.7	UG/KG	SW8270D-SIM
Naphthalene	29.5	2.7	UG/KG	SW8270D-SIM
Phenanthrene	81.0	2.7	UG/KG	SW8270D-SIM
Pyrene	148	2.7	UG/KG	SW8270D-SIM
TOC	1220	334	MG/KG	SW9060

SAMPLE ID: EPAFMC-SD-09

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Hardness	64400		MG/KG	A2340B
Aluminum	5060	8.25	MG/KG	SW6010B
Antimony	0.636 J	0.825	MG/KG	SW6010B
Arsenic	23.8	0.825	MG/KG	SW6010B
Barium	50.3	0.412	MG/KG	SW6010B
Beryllium	0.437	0.412	MG/KG	SW6010B

EXECUTIVE SUMMARY - Detection Highlights

3505843

Calcium	17400	8.25	MG/KG	SW6010B
Chromium	58.8	0.412	MG/KG	SW6010B
Cobalt	8.27	0.412	MG/KG	SW6010B
Copper	29.0	0.412	MG/KG	SW6010B
Iron	41300	4.12	MG/KG	SW6010B
Lead	22.2	0.660	MG/KG	SW6010B
Magnesium	5090	8.25	MG/KG	SW6010B
Manganese	483	0.412	MG/KG	SW6010B
Nickel	8.52	0.412	MG/KG	SW6010B
Potassium	262	41.2	MG/KG	SW6010B
Sodium	140	24.8	MG/KG	SW6010B
Thallium	0.525 J	0.825	MG/KG	SW6010B
Vanadium	55.3	0.412	MG/KG	SW6010B
Zinc	117	0.825	MG/KG	SW6010B
Mercury	0.0457	0.0150	MG/KG	SW7471A
Benzo(a)anthracene	161 J	280	UG/KG	SW8270D
Benzo(a)pyrene	108 J	280	UG/KG	SW8270D
Benzo(b)fluoranthene	163 J	280	UG/KG	SW8270D
Benzo(g,h,i)perylene	65.7 J	280	UG/KG	SW8270D
Benzo(k)fluoranthene	77.4 J	280	UG/KG	SW8270D
Chrysene	161 J	270	UG/KG	SW8270D
Fluoranthene	214 J	280	UG/KG	SW8270D
Indeno(1,2,3-cd)pyrene	57.9 J	280	UG/KG	SW8270D
Pyrene	252 J	280	UG/KG	SW8270D
1-Methylnaphthalene	2.80 J	3.3	UG/KG	SW8270D-SIM
2-Methylnaphthalene	6.40	3.3	UG/KG	SW8270D-SIM
Acenaphthene	3.40	3.3	UG/KG	SW8270D-SIM
Acenaphthylene	17.6	3.3	UG/KG	SW8270D-SIM
Anthracene	29.8	3.3	UG/KG	SW8270D-SIM
Benzo(a)anthracene	148	3.3	UG/KG	SW8270D-SIM
Benzo(a)pyrene	114	3.3	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	160	3.3	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	62.3	3.3	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	51.6	3.3	UG/KG	SW8270D-SIM
Chrysene	124	3.3	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	23.7	3.3	UG/KG	SW8270D-SIM
Fluoranthene	199	3.3	UG/KG	SW8270D-SIM
Fluorene	7.50	3.3	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	59.4	3.3	UG/KG	SW8270D-SIM
Naphthalene	26.0	3.3	UG/KG	SW8270D-SIM
Phenanthrene	50.1	3.3	UG/KG	SW8270D-SIM
Pyrene	230	3.3	UG/KG	SW8270D-SIM
TOC	2430	568	MG/KG	SW9060

EXECUTIVE SUMMARY - Detection Highlights

3505843

SAMPLE ID: EPAFMC-SD-10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Hardness	88100		MG/KG	A2340B
Aluminum	8300	7.95	MG/KG	SW6010B
Antimony	1.24	0.795	MG/KG	SW6010B
Arsenic	26.7	0.795	MG/KG	SW6010B
Barium	102	0.398	MG/KG	SW6010B
Beryllium	1.25	0.398	MG/KG	SW6010B
Calcium	24400	7.95	MG/KG	SW6010B
Chromium	106	0.398	MG/KG	SW6010B
Cobalt	10.8	0.398	MG/KG	SW6010B
Copper	11.1	0.398	MG/KG	SW6010B
Iron	49300	3.98	MG/KG	SW6010B
Lead	22.3	0.636	MG/KG	SW6010B
Magnesium	6610	7.95	MG/KG	SW6010B
Manganese	1500	0.398	MG/KG	SW6010B
Nickel	9.96	0.398	MG/KG	SW6010B
Potassium	658	39.8	MG/KG	SW6010B
Sodium	186	23.8	MG/KG	SW6010B
Thallium	0.686 J	0.795	MG/KG	SW6010B
Vanadium	86.3	0.398	MG/KG	SW6010B
Zinc	231	0.795	MG/KG	SW6010B
Mercury	0.00858 J	0.0129	MG/KG	SW7471A
Acenaphthylene	84.4 J	260	UG/KG	SW8270D
Anthracene	154 J	260	UG/KG	SW8270D
Benzo(a)anthracene	338	260	UG/KG	SW8270D
Benzo(a)pyrene	227 J	260	UG/KG	SW8270D
Benzo(b)fluoranthene	350	260	UG/KG	SW8270D
Benzo(g,h,i)perylene	118 J	260	UG/KG	SW8270D
Benzo(k)fluoranthene	123 J	260	UG/KG	SW8270D
Carbazole	76.6 J	260	UG/KG	SW8270D
Chrysene	326	260	UG/KG	SW8270D
Dibenzo(a,h)anthracene	50.2 J	260	UG/KG	SW8270D
Dibenzofuran	61.7 J	260	UG/KG	SW8270D
Fluoranthene	630	260	UG/KG	SW8270D
Fluorene	122 J	260	UG/KG	SW8270D
Indeno(1,2,3-cd)pyrene	104 J	260	UG/KG	SW8270D
Naphthalene	62.9 J	260	UG/KG	SW8270D

EXECUTIVE SUMMARY - Detection Highlights

3505843

Phenanthrene	574	260	UG/KG	SW8270D
Pyrene	495	260	UG/KG	SW8270D
1-Methylnaphthalene	4.60	3.2	UG/KG	SW8270D-SIM
2-Methylnaphthalene	11.3	3.2	UG/KG	SW8270D-SIM
Acenaphthene	4.20	3.2	UG/KG	SW8270D-SIM
Acenaphthylene	39.9	3.2	UG/KG	SW8270D-SIM
Anthracene	104	3.2	UG/KG	SW8270D-SIM
Benzo(a)anthracene	298	3.2	UG/KG	SW8270D-SIM
Benzo(a)pyrene	208	3.2	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	298	3.2	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	111	3.2	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	107	3.2	UG/KG	SW8270D-SIM
Chrysene	297	3.2	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	46.3	3.2	UG/KG	SW8270D-SIM
Fluoranthene	423	3.2	UG/KG	SW8270D-SIM
Fluorene	16.6	3.2	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	110	3.2	UG/KG	SW8270D-SIM
Naphthalene	42.8	3.2	UG/KG	SW8270D-SIM
Phenanthrene	106	3.2	UG/KG	SW8270D-SIM
Pyrene	313	3.2	UG/KG	SW8270D-SIM
TOC	6000	430	MG/KG	SW9060

SAMPLE ID: EPAFMC-SD-11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Hardness	81500		MG/KG	A2340B
Aluminum	4910	9.81	MG/KG	SW6010B
Antimony	0.345 J	0.981	MG/KG	SW6010B
Arsenic	13.2	0.981	MG/KG	SW6010B
Barium	45.5	0.490	MG/KG	SW6010B
Beryllium	0.577	0.490	MG/KG	SW6010B
Calcium	21400	9.81	MG/KG	SW6010B
Chromium	47.6	0.490	MG/KG	SW6010B
Cobalt	6.73	0.490	MG/KG	SW6010B
Copper	6.49	0.490	MG/KG	SW6010B
Iron	28000	4.90	MG/KG	SW6010B
Lead	14.2	0.785	MG/KG	SW6010B
Magnesium	6810	9.81	MG/KG	SW6010B
Manganese	553	0.490	MG/KG	SW6010B
Nickel	7.28	0.490	MG/KG	SW6010B

EXECUTIVE SUMMARY - Detection Highlights

3505843

Potassium	343	49.0	MG/KG	SW6010B
Sodium	95.8	29.4	MG/KG	SW6010B
Vanadium	44.1	0.490	MG/KG	SW6010B
Zinc	100	0.981	MG/KG	SW6010B
Mercury	0.0210	0.0181	MG/KG	SW7471A
Benzo(a)anthracene	176 J	270	UG/KG	SW8270D
Benzo(a)pyrene	118 J	270	UG/KG	SW8270D
Benzo(b)fluoranthene	186 J	270	UG/KG	SW8270D
Benzo(g,h,i)perylene	70.2 J	270	UG/KG	SW8270D
Benzo(k)fluoranthene	91.8 J	270	UG/KG	SW8270D
Chrysene	183 J	270	UG/KG	SW8270D
Fluoranthene	275	270	UG/KG	SW8270D
Indeno(1,2,3-cd)pyrene	60.6 J	270	UG/KG	SW8270D
Pyrene	265 J	270	UG/KG	SW8270D
1-Methylnaphthalene	5.30	3.4	UG/KG	SW8270D-SIM
2-Methylnaphthalene	9.90	3.4	UG/KG	SW8270D-SIM
Acenaphthene	7.70	3.4	UG/KG	SW8270D-SIM
Acenaphthylene	20.8	3.4	UG/KG	SW8270D-SIM
Anthracene	35.5	3.4	UG/KG	SW8270D-SIM
Benzo(a)anthracene	107	3.4	UG/KG	SW8270D-SIM
Benzo(a)pyrene	92.4	3.4	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	135	3.4	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	55.8	3.4	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	46.0	3.4	UG/KG	SW8270D-SIM
Chrysene	88.9	3.4	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	19.7	3.4	UG/KG	SW8270D-SIM
Fluoranthene	185	3.4	UG/KG	SW8270D-SIM
Fluorene	15.3	3.4	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	51.8	3.4	UG/KG	SW8270D-SIM
Naphthalene	69.0	3.4	UG/KG	SW8270D-SIM
Phenanthrene	60.8	3.4	UG/KG	SW8270D-SIM
Pyrene	133	3.4	UG/KG	SW8270D-SIM
TOC	7320	576	MG/KG	SW9060

SAMPLE ID: EPAFMC-SD-12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Hardness	75200		MG/KG	A2340B
Aluminum	4670	9.34	MG/KG	SW6010B
Antimony	1.26	0.934	MG/KG	SW6010B

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EXECUTIVE SUMMARY - Detection Highlights

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Arsenic	18.0	0.934	MG/KG	SW6010B
Barium	54.6	0.467	MG/KG	SW6010B
Beryllium	0.486	0.467	MG/KG	SW6010B
Calcium	18600	9.34	MG/KG	SW6010B
Chromium	61.3	0.467	MG/KG	SW6010B
Cobalt	13.0	0.467	MG/KG	SW6010B
Copper	644	0.467	MG/KG	SW6010B
Iron	31500	4.67	MG/KG	SW6010B
Lead	30.4	0.748	MG/KG	SW6010B
Magnesium	6980	9.34	MG/KG	SW6010B
Manganese	843	0.467	MG/KG	SW6010B
Nickel	18.3	0.467	MG/KG	SW6010B
Potassium	272	46.7	MG/KG	SW6010B
Silver	0.328 J	0.467	MG/KG	SW6010B
Sodium	80.1	28.0	MG/KG	SW6010B
Vanadium	45.0	0.467	MG/KG	SW6010B
Zinc	144	0.934	MG/KG	SW6010B
Mercury	0.0256	0.0203	MG/KG	SW7471A
2-Methylnaphthalene	65.7 J	250	UG/KG	SW8270D
Acenaphthylene	97.7 J	250	UG/KG	SW8270D
Anthracene	176 J	250	UG/KG	SW8270D
Benzo(a)anthracene	574	250	UG/KG	SW8270D
Benzo(a)pyrene	397	250	UG/KG	SW8270D
Benzo(b)fluoranthene	569	250	UG/KG	SW8270D
Benzo(g,h,i)perylene	215 J	250	UG/KG	SW8270D
Benzo(k)fluoranthene	279	250	UG/KG	SW8270D
Carbazole	69.8 J	250	UG/KG	SW8270D
Chrysene	550	250	UG/KG	SW8270D
Dibenzo(a,h)anthracene	71.6 J	250	UG/KG	SW8270D
Dibenzofuran	57.3 J	250	UG/KG	SW8270D
Fluoranthene	1060	250	UG/KG	SW8270D
Fluorene	55.3 J	250	UG/KG	SW8270D
Indeno(1,2,3-cd)pyrene	192 J	250	UG/KG	SW8270D
Naphthalene	342	250	UG/KG	SW8270D
Phenanthrene	373	250	UG/KG	SW8270D
Pyrene	878	250	UG/KG	SW8270D
1-Methylnaphthalene	65.8	3.1	UG/KG	SW8270D-SIM
2-Methylnaphthalene	162	3.1	UG/KG	SW8270D-SIM
Acenaphthene	36.1	3.1	UG/KG	SW8270D-SIM
Acenaphthylene	120	3.1	UG/KG	SW8270D-SIM
Anthracene	270	3.1	UG/KG	SW8270D-SIM
Benzo(a)anthracene	423	3.1	UG/KG	SW8270D-SIM
Benzo(a)pyrene	361	3.1	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	215	3.1	UG/KG	SW8270D-SIM

EXECUTIVE SUMMARY - Detection Highlights

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Benzo(k)fluoranthene	179	3.1	UG/KG	SW8270D-SIM
Chrysene	371	3.1	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	74.7	3.1	UG/KG	SW8270D-SIM
Fluorene	116	3.1	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	206	3.1	UG/KG	SW8270D-SIM
Phenanthrene	422	3.1	UG/KG	SW8270D-SIM
TOC	13200	401	MG/KG	SW9060

SAMPLE ID: EPAFMC-SD-12DL1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Benzo(b)fluoranthene	544	16	UG/KG	SW8270D-SIM
Fluoranthene	764	16	UG/KG	SW8270D-SIM
Naphthalene	666	16	UG/KG	SW8270D-SIM
Pyrene	532	16	UG/KG	SW8270D-SIM

SAMPLE ID: EPAFMC-SD-13

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Hardness	78300		MG/KG	A2340B
Aluminum	5520	10.4	MG/KG	SW6010B
Antimony	0.735 J	1.04	MG/KG	SW6010B
Arsenic	15.2	1.04	MG/KG	SW6010B
Barium	49.1	0.520	MG/KG	SW6010B
Beryllium	0.440 J	0.520	MG/KG	SW6010B
Calcium	19200	10.4	MG/KG	SW6010B
Chromium	50.2	0.520	MG/KG	SW6010B
Cobalt	10.3	0.520	MG/KG	SW6010B
Copper	43.1	0.520	MG/KG	SW6010B
Iron	35700	5.20	MG/KG	SW6010B
Lead	36.1	0.832	MG/KG	SW6010B
Magnesium	7370	10.4	MG/KG	SW6010B
Manganese	810	0.520	MG/KG	SW6010B
Nickel	10.7	0.520	MG/KG	SW6010B
Potassium	312	52.0	MG/KG	SW6010B
Sodium	73.6	31.2	MG/KG	SW6010B
Thallium	0.656 J	1.04	MG/KG	SW6010B

EXECUTIVE SUMMARY - Detection Highlights

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Vanadium	52.0	0.520	MG/KG	SW6010B
Zinc	168	1.04	MG/KG	SW6010B
Mercury	0.167	0.0138	MG/KG	SW7471A
Anthracene	142 J	270	UG/KG	SW8270D
Benzo(a)anthracene	466	270	UG/KG	SW8270D
Benzo(a)pyrene	362	270	UG/KG	SW8270D
Benzo(b)fluoranthene	603	270	UG/KG	SW8270D
Benzo(g,h,i)perylene	235 J	270	UG/KG	SW8270D
Benzo(k)fluoranthene	454	270	UG/KG	SW8270D
Carbazole	61.3 J	270	UG/KG	SW8270D
Chrysene	591	270	UG/KG	SW8270D
Fluoranthene	910	270	UG/KG	SW8270D
Fluorene	58.9 J	270	UG/KG	SW8270D
Indeno(1,2,3-cd)pyrene	206 J	270	UG/KG	SW8270D
Naphthalene	121 J	270	UG/KG	SW8270D
Phenanthrene	534	270	UG/KG	SW8270D
Pyrene	914	270	UG/KG	SW8270D
1-Methylnaphthalene	16.2	3.4	UG/KG	SW8270D-SIM
2-Methylnaphthalene	35.0	3.4	UG/KG	SW8270D-SIM
Acenaphthene	22.8	3.4	UG/KG	SW8270D-SIM
Acenaphthylene	68.7	3.4	UG/KG	SW8270D-SIM
Anthracene	143	3.4	UG/KG	SW8270D-SIM
Benzo(a)pyrene	407	3.4	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	249	3.4	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	199	3.4	UG/KG	SW8270D-SIM
Chrysene	452	3.4	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	84.4	3.4	UG/KG	SW8270D-SIM
Fluorene	35.0	3.4	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	231	3.4	UG/KG	SW8270D-SIM
Naphthalene	120	3.4	UG/KG	SW8270D-SIM
Phenanthrene	276	3.4	UG/KG	SW8270D-SIM
TOC	26200	521	MG/KG	SW9060

SAMPLE ID: EPAFMC-SD-13DL1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Benzo(a)anthracene	582	17	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	672	17	UG/KG	SW8270D-SIM
Fluoranthene	962	17	UG/KG	SW8270D-SIM
Pyrene	698	17	UG/KG	SW8270D-SIM

EXECUTIVE SUMMARY - Detection Highlights

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SAMPLE ID: EPAFMC-SD-14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Hardness	50200		MG/KG	A2340B
Aluminum	3570	7.04	MG/KG	SW6010B
Antimony	0.562 J	0.704	MG/KG	SW6010B
Arsenic	13.9	0.704	MG/KG	SW6010B
Barium	26.8	0.352	MG/KG	SW6010B
Beryllium	0.437	0.352	MG/KG	SW6010B
Calcium	12400	7.04	MG/KG	SW6010B
Chromium	45.0	0.352	MG/KG	SW6010B
Cobalt	6.51	0.352	MG/KG	SW6010B
Copper	14.3	0.352	MG/KG	SW6010B
Iron	30200	3.52	MG/KG	SW6010B
Lead	15.2	0.563	MG/KG	SW6010B
Magnesium	4680	7.04	MG/KG	SW6010B
Manganese	718	0.352	MG/KG	SW6010B
Nickel	5.70	0.352	MG/KG	SW6010B
Potassium	126	35.2	MG/KG	SW6010B
Sodium	45.8	21.1	MG/KG	SW6010B
Thallium	0.326 J	0.704	MG/KG	SW6010B
Vanadium	44.0	0.352	MG/KG	SW6010B
Zinc	110	0.704	MG/KG	SW6010B
Mercury	0.0186	0.0186	MG/KG	SW7471A
Anthracene	169 J	260	UG/KG	SW8270D
Benzo(a)anthracene	767	260	UG/KG	SW8270D
Benzo(a)pyrene	549	260	UG/KG	SW8270D
Benzo(b)fluoranthene	882	260	UG/KG	SW8270D
Benzo(g,h,i)perylene	324	260	UG/KG	SW8270D
Benzo(k)fluoranthene	660	260	UG/KG	SW8270D
Carbazole	142 J	260	UG/KG	SW8270D
Chrysene	815	260	UG/KG	SW8270D
Dibenzo(a,h)anthracene	124 J	260	UG/KG	SW8270D
Fluoranthene	1580	260	UG/KG	SW8270D
Indeno(1,2,3-cd)pyrene	292	260	UG/KG	SW8270D
Phenanthrene	730	260	UG/KG	SW8270D
Pyrene	1200	260	UG/KG	SW8270D
1-Methylnaphthalene	2.10 J	3.2	UG/KG	SW8270D-SIM
2-Methylnaphthalene	4.10	3.2	UG/KG	SW8270D-SIM

EXECUTIVE SUMMARY - Detection Highlights

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Acenaphthene	2.30 J	3.2	UG/KG	SW8270D-SIM
Acenaphthylene	5.40	3.2	UG/KG	SW8270D-SIM
Anthracene	7.60	3.2	UG/KG	SW8270D-SIM
Benzo(a)anthracene	36.4	3.2	UG/KG	SW8270D-SIM
Benzo(a)pyrene	32.2	3.2	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	53.5	3.2	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	21.5	3.2	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	15.0	3.2	UG/KG	SW8270D-SIM
Chrysene	33.6	3.2	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	7.40	3.2	UG/KG	SW8270D-SIM
Fluoranthene	54.1	3.2	UG/KG	SW8270D-SIM
Fluorene	4.10	3.2	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	19.1	3.2	UG/KG	SW8270D-SIM
Naphthalene	13.9	3.2	UG/KG	SW8270D-SIM
Phenanthrene	20.7	3.2	UG/KG	SW8270D-SIM
Pyrene	45.8	3.2	UG/KG	SW8270D-SIM
TOC	1640	449	MG/KG	SW9060

SAMPLE ID: EPAFMC-SD-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Hardness	101000		MG/KG	A2340B
Aluminum	5890	7.74	MG/KG	SW6010B
Antimony	0.550 J	0.774	MG/KG	SW6010B
Arsenic	14.4	0.774	MG/KG	SW6010B
Barium	67.7	0.387	MG/KG	SW6010B
Beryllium	0.587	0.387	MG/KG	SW6010B
Cadmium	1.46	0.387	MG/KG	SW6010B
Calcium	24600	7.74	MG/KG	SW6010B
Chromium	63.2	0.387	MG/KG	SW6010B
Cobalt	7.69	0.387	MG/KG	SW6010B
Copper	11.9	0.387	MG/KG	SW6010B
Iron	32800	3.87	MG/KG	SW6010B
Lead	18.4	0.619	MG/KG	SW6010B
Magnesium	9660	7.74	MG/KG	SW6010B
Manganese	788	0.387	MG/KG	SW6010B
Nickel	16.6	0.387	MG/KG	SW6010B
Potassium	283	38.7	MG/KG	SW6010B
Sodium	227	23.2	MG/KG	SW6010B
Thallium	0.271 J	0.774	MG/KG	SW6010B

EXECUTIVE SUMMARY - Detection Highlights

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Vanadium	50.5	0.387	MG/KG	SW6010B
Zinc	146	0.774	MG/KG	SW6010B
Mercury	0.0165	0.0143	MG/KG	SW7471A
1-Methylnaphthalene	1.90 J	3.2	UG/KG	SW8270D-SIM
2-Methylnaphthalene	4.20	3.2	UG/KG	SW8270D-SIM
Acenaphthene	1.40 J	3.2	UG/KG	SW8270D-SIM
Acenaphthylene	4.00	3.2	UG/KG	SW8270D-SIM
Anthracene	4.80	3.2	UG/KG	SW8270D-SIM
Benzo(a)anthracene	28.1	3.2	UG/KG	SW8270D-SIM
Benzo(a)pyrene	30.3	3.2	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	50.0	3.2	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	25.9	3.2	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	15.2	3.2	UG/KG	SW8270D-SIM
Chrysene	30.3	3.2	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	7.00	3.2	UG/KG	SW8270D-SIM
Fluoranthene	51.6	3.2	UG/KG	SW8270D-SIM
Fluorene	2.10 J	3.2	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	22.1	3.2	UG/KG	SW8270D-SIM
Naphthalene	8.80	3.2	UG/KG	SW8270D-SIM
Phenanthrene	19.1	3.2	UG/KG	SW8270D-SIM
Pyrene	43.7	3.2	UG/KG	SW8270D-SIM
TOC	14300	470	MG/KG	SW9060

SAMPLE ID: EPAFMC-SD-16

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Hardness	86800		MG/KG	A2340B
Aluminum	4120	8.08	MG/KG	SW6010B
Antimony	4.95	0.808	MG/KG	SW6010B
Arsenic	12.4	0.808	MG/KG	SW6010B
Barium	56.0	0.404	MG/KG	SW6010B
Beryllium	0.389 J	0.404	MG/KG	SW6010B
Calcium	20000	8.08	MG/KG	SW6010B
Chromium	54.4	0.404	MG/KG	SW6010B
Cobalt	10.4	0.404	MG/KG	SW6010B
Copper	12.3	0.404	MG/KG	SW6010B
Iron	24300	4.04	MG/KG	SW6010B
Lead	42.7	0.646	MG/KG	SW6010B
Magnesium	8940	8.08	MG/KG	SW6010B
Manganese	645	0.404	MG/KG	SW6010B

EXECUTIVE SUMMARY - Detection Highlights

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Nickel	14.1	0.404	MG/KG	SW6010B
Potassium	238	40.4	MG/KG	SW6010B
Sodium	93.4	24.2	MG/KG	SW6010B
Thallium	0.500 J	0.808	MG/KG	SW6010B
Vanadium	34.9	0.404	MG/KG	SW6010B
Zinc	121	0.808	MG/KG	SW6010B
Mercury	0.0193	0.0156	MG/KG	SW7471A
2-Methylnaphthalene	81.5 J	270	UG/KG	SW8270D
Acenaphthylene	86.3 J	270	UG/KG	SW8270D
Anthracene	152 J	270	UG/KG	SW8270D
Benzo(a)anthracene	414	270	UG/KG	SW8270D
Benzo(a)pyrene	303	270	UG/KG	SW8270D
Benzo(b)fluoranthene	410	270	UG/KG	SW8270D
Benzo(g,h,i)perylene	164 J	270	UG/KG	SW8270D
Benzo(k)fluoranthene	329	270	UG/KG	SW8270D
Carbazole	79.3 J	270	UG/KG	SW8270D
Chrysene	438	260	UG/KG	SW8270D
Dibenzofuran	77.6 J	270	UG/KG	SW8270D
Fluoranthene	710	270	UG/KG	SW8270D
Fluorene	66.6 J	270	UG/KG	SW8270D
Indeno(1,2,3-cd)pyrene	145 J	270	UG/KG	SW8270D
Naphthalene	431	270	UG/KG	SW8270D
Phenanthrene	314	270	UG/KG	SW8270D
Pyrene	610	270	UG/KG	SW8270D
1-Methylnaphthalene	48.9	3.2	UG/KG	SW8270D-SIM
2-Methylnaphthalene	116	3.2	UG/KG	SW8270D-SIM
Acenaphthene	40.1	3.2	UG/KG	SW8270D-SIM
Acenaphthylene	94.4	3.2	UG/KG	SW8270D-SIM
Anthracene	200	3.2	UG/KG	SW8270D-SIM
Benzo(a)anthracene	398	3.2	UG/KG	SW8270D-SIM
Benzo(a)pyrene	343	3.2	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	480	3.2	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	204	3.2	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	166	3.2	UG/KG	SW8270D-SIM
Chrysene	344	3.2	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	73.2	3.2	UG/KG	SW8270D-SIM
Fluorene	98.7	3.2	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	196	3.2	UG/KG	SW8270D-SIM
Phenanthrene	359	3.2	UG/KG	SW8270D-SIM
TOC	6240	422	MG/KG	SW9060

EXECUTIVE SUMMARY - Detection Highlights

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SAMPLE ID: EPAFMC-SD-16DL1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Fluoranthene	758	16	UG/KG	SW8270D-SIM
Naphthalene	578	16	UG/KG	SW8270D-SIM
Pyrene	565	16	UG/KG	SW8270D-SIM

SAMPLE ID: EPAFMC-SW-01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Hardness	195	1.00	mg/L	A2340B
Aluminum	64.5 J	100	UG/L	SW6010B
Arsenic	7.06 J	10.0	UG/L	SW6010B
Barium	32.0	10.0	UG/L	SW6010B
Calcium	44300	100	UG/L	SW6010B
Chromium	0.901 J	10.0	UG/L	SW6010B
Iron	102	50.0	UG/L	SW6010B
Magnesium	20400	100	UG/L	SW6010B
Manganese	33.9	10.0	UG/L	SW6010B
Potassium	1130	500	UG/L	SW6010B
Sodium	26000	300	UG/L	SW6010B
Vanadium	0.565 J	10.0	UG/L	SW6010B
Zinc	4.23 J	20.0	UG/L	SW6010B
Thallium	0.507 J	2.00	UG/L	SW7841

SAMPLE ID: EPAFMC-SW-03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Hardness	203	1.00	mg/L	A2340B
Aluminum	57.3 J	100	UG/L	SW6010B
Barium	33.9	10.0	UG/L	SW6010B
Calcium	46200	100	UG/L	SW6010B
Chromium	0.813 J	10.0	UG/L	SW6010B
Iron	94.8	50.0	UG/L	SW6010B
Magnesium	21400	100	UG/L	SW6010B

EXECUTIVE SUMMARY - Detection Highlights

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Manganese	37.7	10.0	UG/L	SW6010B
Potassium	1220	500	UG/L	SW6010B
Selenium	12.9 J	20.0	UG/L	SW6010B
Sodium	27200	300	UG/L	SW6010B
Vanadium	0.546 J	10.0	UG/L	SW6010B
Zinc	4.44 J	20.0	UG/L	SW6010B

DRAFT

Organics

Organic Data Qualifiers

- U** Indicates the analyte was analyzed for but not detected. The number adjacent to the "U" qualifier indicates the reporting limit for that analyte. The reporting limit can vary from sample to sample depending on dilution factors or the percent moisture adjustment when indicated.
- J** Indicates an estimated value. It is used when the data indicates the presence of an analyte above the method detection limit (MDL) yet lower than the reporting limit.
- B** Indicates the analyte was found in the associated blank as well as in the sample. The notation indicates possible contamination of the sample.
- E** Indicates the value reported is above the highest calibration standard for that analyte. The sample should be analyzed at an appropriate dilution. "E" qualified values are estimations and the diluted result may be reported on another Form 1.
- D** Indicates the analyte has been identified in a dilution reanalysis. "D" qualifiers are used for samples that have been analyzed at a lesser dilution than required for accurate quantitation.
- C** The "C" qualifier indicates the presence of this analyte has been confirmed by GC/MS analysis.
- P** This qualifier is used for pesticide / Aroclor target analytes where there is greater than 25% difference for the detected concentration between the two GC columns.
- N** This qualifier indicates presumptive evidence of an analyte. This qualifier is only used for tentatively identified compounds (TIC), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the "N" qualifier is not used.
- A** This qualifier indicates that a TIC is a suspected aldol-condensation product.
- X** Data flagged as rejected by analyst utilizing analytical judgement.

Organic Sample ID Qualifiers

The qualifiers that may be applied to the lab sample ID and instrument sample ID for organic analysis are defined below:

- DL** Diluted reanalysis. Indicates that the results of the original analysis of the sample contained compounds that exceeded the calibration range. The sample was diluted and reanalyzed. May be followed by a digit to indicate multiple dilutions of the sample. The results of more than one diluted reanalysis may be reported.
- R** Reanalysis. The extract was reanalyzed without re-extraction. The "R" is not used if the sample was also re-extracted. May be followed by a digit to indicate multiple reanalysis of the sample at the same dilution.
- RE** Re-extracted. The extract was reanalyzed with re-extraction. May be followed by a digit to indicate multiple re-extraction of the same sample at the same dilution.
- MS** Matrix spike (may be followed by a digit to indicate multiple matrix within a sample set).
- SD** Matrix spike duplicate (may be followed by a digit to indicate multiple matrix spike duplicate within a sample set).

DRAFT

8270 SIM Semi-Volatile Organics

**CASE NARRATIVE
GC/MS SEMIVOLATILE ORGANICS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

EPA SW846 8270D

IV. PREPARATION

Soil samples were prepared by SW846 EPA 3545 for 8270 semi-volatile analysis.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

All acceptance criteria were met.

C. Surrogates:

All acceptance criteria were met.

D. Spikes:

1. Laboratory Control Spikes (LCS)

All acceptance criteria were met

2. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

A client requested MS/SD set was analyzed. Please note there was considerable difference between the results of the parent, MS and MSD. All were analyzed full; however the MSD was over the calibration for many analytes, could not be reported full, and required a 10X dilution. This difference in concentration is not uncommon in soils, due to non-homogeneity.

All percent recovery and relative percent difference (RPD) criteria were met with the exception of:

**CASE NARRATIVE
GC/MS SEMIVOLATILE ORGANICS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

MS - EPAFMC-SD-07MS was analyzed with the soil samples extracted on 05/04/12. The following analytes were recovered below criteria: 1-Methylnaphthalene at 61.5 % with criteria of (71-132) and the following analyte(s) were recovered above criteria: Acenaphthylene at 132 % with criteria of (54-115), Benzo(a)anthracene at 231 % with criteria of (53-119), Benzo(a)pyrene at 177 % with criteria of (20-120), Benzo(b)fluoranthene at 242 % with criteria of (50-171), Chrysene at 188 % with criteria of (34-140), Fluoranthene at 262 % with criteria of (55-132), Indeno(1,2,3-cd)pyrene at 135 % with criteria of (19-122), Phenanthrene at 154 % with criteria of (54-112), Pyrene at 192 % with criteria of (55-123).

SD - EPAFMC-SD-07SD was analyzed with the soil samples extracted on 05/04/12. The following analytes were recovered above criteria: Acenaphthene at 475 % with criteria of (57-119), Acenaphthylene at 555 % with criteria of (54-115), Anthracene at 4436 % with criteria of (40-138), Benzo(a)anthracene at 8342 % with criteria of (53-119), Benzo(a)pyrene at 6072 % with criteria of (20-120), Benzo(b)fluoranthene at 8278 % with criteria of (50-171), Benzo(g,h,i)perylene at 3198 % with criteria of (50-150), Benzo(k)fluoranthene at 2459 % with criteria of (32-158), Chrysene at 6635 % with criteria of (34-140), Dibenzo(a,h)anthracene at 1205 % with criteria of (41-114), Fluoranthene at 15445 % with criteria of (55-132), Fluorene at 861 % with criteria of (59-118), Indeno(1,2,3-cd)pyrene at 3095 % with criteria of (19-122), Naphthalene at 204 % with criteria of (59-111), Phenanthrene at 6943 % with criteria of (54-112), Pyrene at 10662 % with criteria of (55-123). The following analytes exceeded RPD criteria: 1-Methylnaphthalene at 34.5 % with criteria of (30), 2-Methylnaphthalene at 33.7 % with criteria of (30), Acenaphthene at 129.4 % with criteria of (30), Acenaphthylene at 96.3 % with criteria of (30), Anthracene at 173.3 % with criteria of (30), Benzo(a)anthracene at 162.5 % with criteria of (30), Benzo(a)pyrene at 159.2 % with criteria of (30), Benzo(b)fluoranthene at 158.6 % with criteria of (30), Benzo(g,h,i)perylene at 153.7 % with criteria of (30), Benzo(k)fluoranthene at 145.5 % with criteria of (30), Chrysene at 156.7 % with criteria of (30), Dibenzo(a,h)anthracene at 147.3 % with criteria of (30), Fluoranthene at 167.6 % with criteria of (30), Fluorene at 131.6 % with criteria of (30), Indeno(1,2,3-cd)pyrene at 154.1 % with criteria of (30), Naphthalene at 37.7 % with criteria of (30), Phenanthrene at 169 % with criteria of (30), Pyrene at 165.6 % with criteria of (30).

No further action was taken due to the non-homogeneity of the sample matrix. Samples coded accordingly.

E. Internal Standards:

All acceptance criteria were met.

F. Samples:

Sample analysis proceeded normally.

**CASE NARRATIVE
GC/MS SEMIVOLATILE ORGANICS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

Sample EPAFMC-SD-12 required a 5X dilution due to high concentration of the following analytes: Benzo(b)fluoranthene, Fluoranthene, Naphthalene, Pyrene. Both full and diluted runs are reported.

Sample EPAFMC-SD-13 required a 5X dilution due to high concentration of the following analytes: Benzo(a)anthracene, Benzo(b)fluoranthene, Fluoranthene, Pyrene. Both full and diluted runs are reported.

Sample EPAFMC-SD-16 required a 5X dilution due to high concentration of the following analytes: Fluoranthene, Naphthalene, Pyrene. Both full and diluted runs are reported.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.



SIGNED:

DATE: 05/09/2012

SEMI-VOLATILE ORGANIC CROSS REFERENCE TABLE

DRAFT

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No. SAS No: SDG No.: 3505843
Method: 8270 SIM

EPA Sample No	Lab Sample ID
<u>EPAFMC-SD-07</u>	<u>350584301</u>
<u>EPAFMC-SD-08</u>	<u>350584304</u>
<u>EPAFMC-SD-09</u>	<u>350584305</u>
<u>EPAFMC-SD-10</u>	<u>350584306</u>
<u>EPAFMC-SD-11</u>	<u>350584307</u>
<u>EPAFMC-SD-12</u>	<u>350584308</u>
<u>EPAFMC-SD-12DL1</u>	<u>350584308DL1</u>
<u>EPAFMC-SD-13</u>	<u>350584309</u>
<u>EPAFMC-SD-13DL1</u>	<u>350584309DL1</u>
<u>EPAFMC-SD-14</u>	<u>350584310</u>
<u>EPAFMC-SD-15</u>	<u>350584311</u>
<u>EPAFMC-SD-16</u>	<u>350584312</u>
<u>EPAFMC-SD-16DL1</u>	<u>350584312DL1</u>

DRAFT

8270 SIM Sample Data

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-07

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584301 Lab File ID: 84301.D

Sample wt/vol: 25.3 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 0932

PercentSolids: 75.5 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC06 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	8		1.4	3.5
91-57-6	2-Methylnaphthalene	21		1.4	3.5
83-32-9	Acenaphthene	9		1.4	3.5
208-96-8	Acenaphthylene	26		1.4	3.5
120-12-7	Anthracene	53.2		1.4	3.5
56-55-3	Benzo(a)anthracene	186		1.5	3.5
50-32-8	Benzo(a)pyrene	153		1.9	3.5
205-99-2	Benzo(b)fluoranthene	213		2	3.5
191-24-2	Benzo(g,h,i)perylene	90.9		3.2	3.5
207-08-9	Benzo(k)fluoranthene	89.3		2.2	3.5
218-01-9	Chrysene	185		1.4	3.5
53-70-3	Dibenzo(a,h)anthracene	29.2		2.7	3.5
206-44-0	Fluoranthene	318		1.4	3.5
86-73-7	Fluorene	23.6		1.4	3.5
193-39-5	Indeno(1,2,3-cd)pyrene	81		3.1	3.5
91-20-3	Naphthalene	58.4		1.5	3.5
85-01-8	Phenanthrene	124		1.4	3.5
129-00-0	Pyrene	236		1.4	3.5

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-08

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584304 Lab File ID: 84304.D

Sample wt/vol: 25.3 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 1357

PercentSolids: 97.1 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC07 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	4.5		1.1	2.7
91-57-6	2-Methylnaphthalene	9.6		1.1	2.7
83-32-9	Acenaphthene	25.2		1.1	2.7
208-96-8	Acenaphthylene	52.8		1.1	2.7
120-12-7	Anthracene	43.1		1.1	2.7
56-55-3	Benzo(a)anthracene	119		1.1	2.7
50-32-8	Benzo(a)pyrene	95.7		1.5	2.7
205-99-2	Benzo(b)fluoranthene	154		1.5	2.7
191-24-2	Benzo(g,h,i)perylene	61.4		2.5	2.7
207-08-9	Benzo(k)fluoranthene	44.9		1.7	2.7
218-01-9	Chrysene	106		1	2.7
53-70-3	Dibenzo(a,h)anthracene	18.7		2.1	2.7
206-44-0	Fluoranthene	202		1.1	2.7
86-73-7	Fluorene	14.4		1.1	2.7
193-39-5	Indeno(1,2,3-cd)pyrene	54.1		2.4	2.7
91-20-3	Naphthalene	29.5		1.1	2.7
85-01-8	Phenanthrene	81		1.1	2.7
129-00-0	Pyrene	148		1.1	2.7

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-09

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584305 Lab File ID: 84305.D

Sample wt/vol: 25.71 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 1430

PercentSolids: 77.7 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC08 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	2.8	J	1.3	3.3
91-57-6	2-Methylnaphthalene	6.4		1.3	3.3
83-32-9	Acenaphthene	3.4		1.3	3.3
208-96-8	Acenaphthylene	17.6		1.3	3.3
120-12-7	Anthracene	29.8		1.3	3.3
56-55-3	Benzo(a)anthracene	148		1.4	3.3
50-32-8	Benzo(a)pyrene	114		1.8	3.3
205-99-2	Benzo(b)fluoranthene	160		1.9	3.3
191-24-2	Benzo(g,h,i)perylene	62.3		3.1	3.3
207-08-9	Benzo(k)fluoranthene	51.6		2.1	3.3
218-01-9	Chrysene	124		1.3	3.3
53-70-3	Dibenzo(a,h)anthracene	23.7		2.6	3.3
206-44-0	Fluoranthene	199		1.3	3.3
86-73-7	Fluorene	7.5		1.3	3.3
193-39-5	Indeno(1,2,3-cd)pyrene	59.4		3	3.3
91-20-3	Naphthalene	26		1.4	3.3
85-01-8	Phenanthrene	50.1		1.3	3.3
129-00-0	Pyrene	230		1.3	3.3

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-10

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584306 Lab File ID: 84306.D

Sample wt/vol: 25.69 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 1454

PercentSolids: 79.7 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC09 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	4.6		1.3	3.2
91-57-6	2-Methylnaphthalene	11.3		1.3	3.2
83-32-9	Acenaphthene	4.2		1.3	3.2
208-96-8	Acenaphthylene	39.9		1.3	3.2
120-12-7	Anthracene	104		1.3	3.2
56-55-3	Benzo(a)anthracene	298		1.4	3.2
50-32-8	Benzo(a)pyrene	208		1.8	3.2
205-99-2	Benzo(b)fluoranthene	298		1.8	3.2
191-24-2	Benzo(g,h,i)perylene	111		3	3.2
207-08-9	Benzo(k)fluoranthene	107		2	3.2
218-01-9	Chrysene	297		1.3	3.2
53-70-3	Dibenzo(a,h)anthracene	46.3		2.5	3.2
206-44-0	Fluoranthene	423		1.3	3.2
86-73-7	Fluorene	16.6		1.3	3.2
193-39-5	Indeno(1,2,3-cd)pyrene	110		2.9	3.2
91-20-3	Naphthalene	42.8		1.4	3.2
85-01-8	Phenanthrene	106		1.3	3.2
129-00-0	Pyrene	313		1.3	3.2

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-11

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584307 Lab File ID: 84307.D

Sample wt/vol: 25.15 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 1543

PercentSolids: 78.4 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC10 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	5.3		1.3	3.4
91-57-6	2-Methylnaphthalene	9.9		1.3	3.4
83-32-9	Acenaphthene	7.7		1.3	3.4
208-96-8	Acenaphthylene	20.8		1.3	3.4
120-12-7	Anthracene	35.5		1.3	3.4
56-55-3	Benzo(a)anthracene	107		1.4	3.4
50-32-8	Benzo(a)pyrene	92.4		1.8	3.4
205-99-2	Benzo(b)fluoranthene	135		1.9	3.4
191-24-2	Benzo(g,h,i)perylene	55.8		3.1	3.4
207-08-9	Benzo(k)fluoranthene	46		2.1	3.4
218-01-9	Chrysene	88.9		1.3	3.4
53-70-3	Dibenzo(a,h)anthracene	19.7		2.6	3.4
206-44-0	Fluoranthene	185		1.3	3.4
86-73-7	Fluorene	15.3		1.3	3.4
193-39-5	Indeno(1,2,3-cd)pyrene	51.8		3	3.4
91-20-3	Naphthalene	69		1.4	3.4
85-01-8	Phenanthrene	60.8		1.3	3.4
129-00-0	Pyrene	133		1.3	3.4

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-12

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584308 Lab File ID: 84308.D

Sample wt/vol: 25.29 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 1607

PercentSolids: 84.4 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC11 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	65.8		1.2	3.1
91-57-6	2-Methylnaphthalene	162		1.2	3.1
83-32-9	Acenaphthene	36.1		1.2	3.1
208-96-8	Acenaphthylene	120		1.2	3.1
120-12-7	Anthracene	270		1.2	3.1
56-55-3	Benzo(a)anthracene	423		1.3	3.1
50-32-8	Benzo(a)pyrene	361		1.7	3.1
205-99-2	Benzo(b)fluoranthene	519	E	1.8	3.1
191-24-2	Benzo(g,h,i)perylene	215		2.9	3.1
207-08-9	Benzo(k)fluoranthene	179		2	3.1
218-01-9	Chrysene	371		1.2	3.1
53-70-3	Dibenzo(a,h)anthracene	74.7		2.4	3.1
206-44-0	Fluoranthene	782	E	1.2	3.1
86-73-7	Fluorene	116		1.2	3.1
193-39-5	Indeno(1,2,3-cd)pyrene	206		2.8	3.1
91-20-3	Naphthalene	648	E	1.3	3.1
85-01-8	Phenanthrene	422		1.2	3.1
129-00-0	Pyrene	473	E	1.2	3.1

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-12DL1

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584308DL1 Lab File ID: 84308D5.D

Sample wt/vol: 25.29 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/09/12 Time: 0952

PercentSolids: 84.4 decanted : _____ Dilution Factor: 5

Extraction: OTHER Station ID: EPAFMC11 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	71.4		6.2	15.6
91-57-6	2-Methylnaphthalene	152		6.2	15.6
83-32-9	Acenaphthene	36.9		6.2	15.6
208-96-8	Acenaphthylene	127		6.2	15.6
120-12-7	Anthracene	258		6.2	15.6
56-55-3	Benzo(a)anthracene	466		6.6	15.6
50-32-8	Benzo(a)pyrene	357		8.4	15.6
205-99-2	Benzo(b)fluoranthene	544		8.9	15.6
191-24-2	Benzo(g,h,i)perylene	202		14.5	15.6
207-08-9	Benzo(k)fluoranthene	153		9.8	15.6
218-01-9	Chrysene	408		6.1	15.6
53-70-3	Dibenzo(a,h)anthracene	70.6		12.2	15.6
206-44-0	Fluoranthene	764		6.2	15.6
86-73-7	Fluorene	111		6.2	15.6
193-39-5	Indeno(1,2,3-cd)pyrene	193		14	15.6
91-20-3	Naphthalene	666		6.6	15.6
85-01-8	Phenanthrene	412		6.2	15.6
129-00-0	Pyrene	532		6.2	15.6

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-13

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584309 Lab File ID: 84309.D

Sample wt/vol: 25.39 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 1631

PercentSolids: 78 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC12 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	16.2		1.3	3.4
91-57-6	2-Methylnaphthalene	35		1.3	3.4
83-32-9	Acenaphthene	22.8		1.3	3.4
208-96-8	Acenaphthylene	68.7		1.3	3.4
120-12-7	Anthracene	143		1.3	3.4
56-55-3	Benzo(a)anthracene	518	E	1.4	3.4
50-32-8	Benzo(a)pyrene	407		1.8	3.4
205-99-2	Benzo(b)fluoranthene	595	E	1.9	3.4
191-24-2	Benzo(g,h,i)perylene	249		3.1	3.4
207-08-9	Benzo(k)fluoranthene	199		2.1	3.4
218-01-9	Chrysene	452		1.3	3.4
53-70-3	Dibenzo(a,h)anthracene	84.4		2.6	3.4
206-44-0	Fluoranthene	827	E	1.3	3.4
86-73-7	Fluorene	35		1.3	3.4
193-39-5	Indeno(1,2,3-cd)pyrene	231		3	3.4
91-20-3	Naphthalene	120		1.4	3.4
85-01-8	Phenanthrene	276		1.3	3.4
129-00-0	Pyrene	610	E	1.3	3.4

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-13DL1

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584309DL1 Lab File ID: 84309D5.D

Sample wt/vol: 25.39 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/09/12 Time: 1016

PercentSolids: 78 decanted : _____ Dilution Factor: 5

Extraction: OTHER Station ID: EPAFMC12 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	20		6.7	16.8
91-57-6	2-Methylnaphthalene	38.1		6.7	16.8
83-32-9	Acenaphthene	26		6.7	16.8
208-96-8	Acenaphthylene	77.5		6.7	16.8
120-12-7	Anthracene	170		6.7	16.8
56-55-3	Benzo(a)anthracene	582		7.1	16.8
50-32-8	Benzo(a)pyrene	459		9.1	16.8
205-99-2	Benzo(b)fluoranthene	672		9.6	16.8
191-24-2	Benzo(g,h,i)perylene	270		15.6	16.8
207-08-9	Benzo(k)fluoranthene	272		10.6	16.8
218-01-9	Chrysene	520		6.6	16.8
53-70-3	Dibenzo(a,h)anthracene	85.9		13.1	16.8
206-44-0	Fluoranthene	962		6.7	16.8
86-73-7	Fluorene	40.3		6.7	16.8
193-39-5	Indeno(1,2,3-cd)pyrene	254		15.1	16.8
91-20-3	Naphthalene	135		7.1	16.8
85-01-8	Phenanthrene	318		6.7	16.8
129-00-0	Pyrene	698		6.7	16.8

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-14

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584310 Lab File ID: 84310.D

Sample wt/vol: 25.82 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 1655

PercentSolids: 80.6 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC13 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	2.1	J	1.3	3.2
91-57-6	2-Methylnaphthalene	4.1		1.3	3.2
83-32-9	Acenaphthene	2.3	J	1.3	3.2
208-96-8	Acenaphthylene	5.4		1.3	3.2
120-12-7	Anthracene	7.6		1.3	3.2
56-55-3	Benzo(a)anthracene	36.4		1.3	3.2
50-32-8	Benzo(a)pyrene	32.2		1.7	3.2
205-99-2	Benzo(b)fluoranthene	53.5		1.8	3.2
191-24-2	Benzo(g,h,i)perylene	21.5		3	3.2
207-08-9	Benzo(k)fluoranthene	15		2	3.2
218-01-9	Chrysene	33.6		1.2	3.2
53-70-3	Dibenzo(a,h)anthracene	7.4		2.5	3.2
206-44-0	Fluoranthene	54.1		1.3	3.2
86-73-7	Fluorene	4.1		1.3	3.2
193-39-5	Indeno(1,2,3-cd)pyrene	19.1		2.9	3.2
91-20-3	Naphthalene	13.9		1.3	3.2
85-01-8	Phenanthrene	20.7		1.3	3.2
129-00-0	Pyrene	45.8		1.3	3.2

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-15

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584311 Lab File ID: 84311.D

Sample wt/vol: 25.09 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 1719

PercentSolids: 82.2 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC14 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	1.9	J	1.3	3.2
91-57-6	2-Methylnaphthalene	4.2		1.3	3.2
83-32-9	Acenaphthene	1.4	J	1.3	3.2
208-96-8	Acenaphthylene	4		1.3	3.2
120-12-7	Anthracene	4.8		1.3	3.2
56-55-3	Benzo(a)anthracene	28.1		1.4	3.2
50-32-8	Benzo(a)pyrene	30.3		1.7	3.2
205-99-2	Benzo(b)fluoranthene	50		1.8	3.2
191-24-2	Benzo(g,h,i)perylene	25.9		3	3.2
207-08-9	Benzo(k)fluoranthene	15.2		2	3.2
218-01-9	Chrysene	30.3		1.3	3.2
53-70-3	Dibenzo(a,h)anthracene	7		2.5	3.2
206-44-0	Fluoranthene	51.6		1.3	3.2
86-73-7	Fluorene	2.1	J	1.3	3.2
193-39-5	Indeno(1,2,3-cd)pyrene	22.1		2.9	3.2
91-20-3	Naphthalene	8.8		1.4	3.2
85-01-8	Phenanthrene	19.1		1.3	3.2
129-00-0	Pyrene	43.7		1.3	3.2

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-16

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584312 Lab File ID: 84312.D

Sample wt/vol: 25.57 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 1744

PercentSolids: 80.1 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC11 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	48.9		1.3	3.2
91-57-6	2-Methylnaphthalene	116		1.3	3.2
83-32-9	Acenaphthene	40.1		1.3	3.2
208-96-8	Acenaphthylene	94.4		1.3	3.2
120-12-7	Anthracene	200		1.3	3.2
56-55-3	Benzo(a)anthracene	398		1.4	3.2
50-32-8	Benzo(a)pyrene	343		1.8	3.2
205-99-2	Benzo(b)fluoranthene	480		1.8	3.2
191-24-2	Benzo(g,h,i)perylene	204		3	3.2
207-08-9	Benzo(k)fluoranthene	166		2	3.2
218-01-9	Chrysene	344		1.3	3.2
53-70-3	Dibenzo(a,h)anthracene	73.2		2.5	3.2
206-44-0	Fluoranthene	678	E	1.3	3.2
86-73-7	Fluorene	98.7		1.3	3.2
193-39-5	Indeno(1,2,3-cd)pyrene	196		2.9	3.2
91-20-3	Naphthalene	502	E	1.4	3.2
85-01-8	Phenanthrene	359		1.3	3.2
129-00-0	Pyrene	502	E	1.3	3.2

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-16DL1

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584312DL1 Lab File ID: 84312D5.D

Sample wt/vol: 25.57 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/09/12 Time: 1040

PercentSolids: 80.1 decanted : _____ Dilution Factor: 5

Extraction: OTHER Station ID: EPAFMC11 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	53.4		6.5	16.2
91-57-6	2-Methylnaphthalene	63.9		6.5	16.2
83-32-9	Acenaphthene	43.6		6.5	16.2
208-96-8	Acenaphthylene	101		6.5	16.2
120-12-7	Anthracene	238		6.5	16.2
56-55-3	Benzo(a)anthracene	439		6.8	16.2
50-32-8	Benzo(a)pyrene	395		8.8	16.2
205-99-2	Benzo(b)fluoranthene	544		9.3	16.2
191-24-2	Benzo(g,h,i)perylene	218		15.1	16.2
207-08-9	Benzo(k)fluoranthene	182		10.2	16.2
218-01-9	Chrysene	384		6.3	16.2
53-70-3	Dibenzo(a,h)anthracene	75.6		12.7	16.2
206-44-0	Fluoranthene	758		6.5	16.2
86-73-7	Fluorene	103		6.5	16.2
193-39-5	Indeno(1,2,3-cd)pyrene	211		14.6	16.2
91-20-3	Naphthalene	578		6.8	16.2
85-01-8	Phenanthrene	401		6.5	16.2
129-00-0	Pyrene	565		6.5	16.2

DRAFT

8270 SIM QC Summary

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
129055MB

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 129055MB Lab File ID: 9311MB.D

Sample wt/vol: 20.21 Units: G Date Received: 05/04/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/07/12 Time: 1348

PercentSolids: 100 decanted : (_____ Dilution Factor: 1

Extraction: OTHER Station ID: _____ Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	1.3	U	1.3	3.3
91-57-6	2-Methylnaphthalene	1.3	U	1.3	3.3
83-32-9	Acenaphthene	1.3	U	1.3	3.3
208-96-8	Acenaphthylene	1.3	U	1.3	3.3
120-12-7	Anthracene	1.3	U	1.3	3.3
56-55-3	Benzo(a)anthracene	1.4	U	1.4	3.3
50-32-8	Benzo(a)pyrene	1.8	U	1.8	3.3
205-99-2	Benzo(b)fluoranthene	1.9	U	1.9	3.3
191-24-2	Benzo(g,h,i)perylene	3.1	U	3.1	3.3
207-08-9	Benzo(k)fluoranthene	2.1	U	2.1	3.3
218-01-9	Chrysene	1.3	U	1.3	3.3
53-70-3	Dibenzo(a,h)anthracene	2.6	U	2.6	3.3
206-44-0	Fluoranthene	1.3	U	1.3	3.3
86-73-7	Fluorene	1.3	U	1.3	3.3
193-39-5	Indeno(1,2,3-cd)pyrene	3	U	3	3.3
91-20-3	Naphthalene	1.4	U	1.4	3.3
85-01-8	Phenanthrene	1.3	U	1.3	3.3
129-00-0	Pyrene	1.3	U	1.3	3.3

2A

SOIL SEMI-VOLATILE ORGANIC SURROGATE RECOVERY

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1
 Lab Code : PEL Case No. SAS No: SDG NO.: 3505843
 Column(1): HPMS-5 ID: 0.25 (mm)

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
129055MB	88.7	99.2					0
129056LCS	80.9	83.3					0
EPAFMC-SD-07	71.4	69.8					0
EPAFMC-SD-07MS	68.8	59.2					0
EPAFMC-SD-07SD	86.3	74.9					0
EPAFMC-SD-08	69.6	77.0					0
EPAFMC-SD-09	75.2	70.8					0
EPAFMC-SD-10	68.9	100.0					0
EPAFMC-SD-11	75.2	130.0					0
EPAFMC-SD-12	71.8	68.4					0
EPAFMC-SD-12DL1	77.8	71.8					0
EPAFMC-SD-13	71.4	61.9					0
EPAFMC-SD-13DL1	77.8	70.2					0
EPAFMC-SD-14	57.9	50.8					0
EPAFMC-SD-15	52.9	51.2					0
EPAFMC-SD-16	71.7	65.6					0
EPAFMC-SD-16DL1	75.8	74.2					0

Control Limits

S1 = p-Terphenyl-d14 43 - 145
 S2 = 2-Fluorobiphenyl 43 - 145

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D Surrogates diluted out
 Control limit source: (lab/method) METHOD

Form II

SEMI-VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1 129056LCS

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	LCS CONCENTRATION ug/Kg	LCS % REC #	LCS % RPD	QC LIMITS	
					RPD	REC.
1-Methylnaphthalene	24.6	18	73.2			49 - 127
2-Methylnaphthalene	24.6	20.7	84.1			31 - 149
Acenaphthene	24.6	20.2	82.1			47 - 127
Acenaphthylene	24.6	19.7	80.1			45 - 129
Anthracene	24.6	26.5	108.0			56 - 123
Benzo(a)anthracene	24.6	23.4	95.1			39 - 140
Benzo(a)pyrene	24.6	23.1	93.9			52 - 130
Benzo(b)fluoranthene	24.6	23.2	94.3			40 - 143
Benzo(g,h,i)perylene	24.6	22.7	92.3			48 - 133
Benzo(k)fluoranthene	24.6	23.3	94.7			49 - 131
Chrysene	24.6	22.8	92.7			50 - 132
Dibenzo(a,h)anthracene	24.6	23.3	94.7			51 - 130
Fluoranthene	24.6	24.6	100.0			46 - 135
Fluorene	24.6	21.2	86.2			52 - 125
Indeno(1,2,3-cd)pyrene	24.6	23.9	97.2			48 - 135
Naphthalene	24.6	20	81.3			44 - 140
Phenanthrene	24.6	22.7	92.3			48 - 131
Pyrene	24.6	22.8	92.7			45 - 133

Spike Recovery: 0 out of 18 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / EPA Sample No. EPAFMC-SD-07MS
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC #	QC LIMITS REC.
1-Methylnaphthalene	26	8.0	24	61.5*	71 - 132
2-Methylnaphthalene	26	21	38	67.3	54 - 145
Acenaphthene	26	9.0	29	75.8	57 - 119
Acenaphthylene	26	26	60	132.0*	54 - 115
Anthracene	26	53	87	131.0	40 - 138
Benzo(a)anthracene	26	190	250	231.0*	53 - 119
Benzo(a)pyrene	26	150	200	177.0*	20 - 120
Benzo(b)fluoranthene	26	210	280	242.0*	50 - 171
Benzo(g,h,i)perylene	26	91	120	120.0	50 - 150
Benzo(k)fluoranthene	26	89	120	103.0	32 - 158
Chrysene	26	180	230	188.0*	34 - 140
Dibenzo(a,h)anthracene	26	29	52	89.6	41 - 114
Fluoranthene	26	320	390	262.0*	55 - 132
Fluorene	26	24	52	108.0	59 - 118
Indeno(1,2,3-cd)pyrene	26	81	120	135.0*	19 - 122
Naphthalene	26	58	76	69.6	59 - 111
Phenanthrene	26	120	160	154.0*	54 - 112
Pyrene	26	240	290	192.0*	55 - 123

Spike Recovery: 10 out of 18 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Cre

EPAFMC-SD-07SD

Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	MSD CONCENTRATION ug/Kg	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
1-Methylnaphthalene	26	34	98.9	34.5 *	30	71 - 132
2-Methylnaphthalene	26	54	126.0	33.7 *	30	54 - 145
Acenaphthene	26	130	475.0 *	129.4 *	30	57 - 119
Acenaphthylene	26	170	555.0 *	96.3 *	30	54 - 115
Anthracene	26	1200	4436.0 *	173.3 *	30	40 - 138
Benzo(a)anthracene	26	2400	8342.0 *	162.5 *	30	53 - 119
Benzo(a)pyrene	26	1800	6072.0 *	159.2 *	30	20 - 120
Benzo(b)fluoranthene	26	2400	8278.0 *	158.6 *	30	50 - 171
Benzo(g,h,i)perylene	26	930	3198.0 *	153.7 *	30	50 - 150
Benzo(k)fluoranthene	26	740	2459.0 *	145.5 *	30	32 - 158
Chrysene	26	1900	6635.0 *	156.7 *	30	34 - 140
Dibenzo(a,h)anthracene	26	350	1205.0 *	147.3 *	30	41 - 114
Fluoranthene	26	4400	15445.0 *	167.6 *	30	55 - 132
Fluorene	26	250	861.0 *	131.6 *	30	59 - 118
Indeno(1,2,3-cd)pyrene	26	900	3095.0 *	154.1 *	30	19 - 122
Naphthalene	26	110	204.0 *	37.7 *	30	59 - 111
Phenanthrene	26	2000	6943.0 *	169.0 *	30	54 - 112
Pyrene	26	3000	10662.0 *	165.6 *	30	55 - 123

RPD: 18 out of 18 outside limits

Spike Recovery: 16 out of 18 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

DRAFT

8270 Semi-Volatile Organics

**CASE NARRATIVE
GC/MS SEMIVOLATILE ORGANICS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

EPA SW846 8270D

IV. PREPARATION

Soil samples were prepared by SW846 EPA 3545 for 8270 semi-volatile analysis.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met. Spectrum Analytical Inc. does not analyze a low calibration standard at the requested RL for all analytes. The low calibration standard is 500 ug/Kg for the following analyte: Pentachlorophenol.

B. Blanks:

All acceptance criteria were met with the exception of:

Blank 128824MB was analyzed with the soil samples extracted on 05/03/12. The following analyte was detected below RL: Bis(2-ethylhexyl)phthalate at 144 ug/Kg. Since this compound was detected below the RL, no further action was taken.

Samples coded accordingly.

C. Surrogates:

All acceptance criteria were met with the exception of:

Sample EPAFMC-SD-14 was recovered below criteria for the following surrogates: 2-Fluorobiphenyl at 22.6 % with criteria of (30-115), Nitrobenzene-d5 at 12.9 % with criteria of (23-120). This sample contained low levels of late eluting, non-target compounds that may have interfered with surrogate recovery. Since the other four surrogates met criteria, no further action was taken.

Sample EPAFMC-SD-15 was recovered below criteria for the following surrogates: 2-Fluorobiphenyl at 15.3 % with criteria of (30-115), Nitrobenzene-d5 at 11.6 % with criteria of (23-120). This sample contained low levels of late eluting, non-target

**CASE NARRATIVE
GC/MS SEMIVOLATILE ORGANICS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

compounds that may have interfered with surrogate recovery. Since the other four surrogates met criteria, no further action was taken.

Samples coded accordingly.

D. Spikes:

1. Laboratory Control Spikes (LCS)

All acceptance criteria were met with the exception of:

LCS 128825LCS was analyzed with the soil samples extracted on 05/03/12. The following analytes had marginal exceedance limit failures: Bis(2-ethylhexyl)phthalate at 162 % with criteria of (58.3-135.7). Bis(2-Ethylhexyl)phthalate is a common laboratory contaminant and that likely elevated spike recoveries. No further action was taken, since this compound was not detected in any samples.

Samples coded accordingly.

2. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

A client requested MS/SD set was analyzed. All percent recovery and relative percent difference (RPD) criteria were met with the exception of:

MS - EPAFMC-SD-07MS was analyzed with the soil samples extracted on 05/03/12. The following analytes were recovered below criteria: 2,4-Dinitrophenol at 0 % with criteria of (15-150), 4,6-Dinitro-2-methylphenol at 26.7 % with criteria of (40-130), Hexachlorocyclopentadiene at 6.1 % with criteria of (10-119).

SD - EPAFMC-SD-07SD was analyzed with the soil samples extracted on 05/03/12. The following analytes were recovered below criteria: 2,4-Dinitrophenol at 0 % with criteria of (15-150), 4,6-Dinitro-2-methylphenol at 31.8 % with criteria of (40-130), Hexachlorocyclopentadiene at 0 % with criteria of (10-119). The following analyte exceeded RPD criteria: Hexachlorocyclopentadiene at 200 % with criteria of (30).

Samples coded accordingly.

E. Internal Standards:

All acceptance criteria were met.

F. Samples:

Sample analysis proceeded normally.

**CASE NARRATIVE
GC/MS SEMIVOLATILE ORGANICS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature: 
Name: Brian C. Span **Title: Lab Director**

SIGNED:
05/08/2012

DATE:

SEMI-VOLATILE ORGANIC CROSS REFERENCE TABLE

DRAFT

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No. SAS No: SDG No.: 3505843
Method: 8270

EPA Sample No	Lab Sample ID
<u>EPAFMC-SD-07</u>	<u>350584301</u>
<u>EPAFMC-SD-08</u>	<u>350584304</u>
<u>EPAFMC-SD-09</u>	<u>350584305</u>
<u>EPAFMC-SD-10</u>	<u>350584306</u>
<u>EPAFMC-SD-11</u>	<u>350584307</u>
<u>EPAFMC-SD-12</u>	<u>350584308</u>
<u>EPAFMC-SD-13</u>	<u>350584309</u>
<u>EPAFMC-SD-14</u>	<u>350584310</u>
<u>EPAFMC-SD-15</u>	<u>350584311</u>
<u>EPAFMC-SD-16</u>	<u>350584312</u>

DRAFT

8270 Sample Data

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-07

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584301 Lab File ID: 84301.D

Sample wt/vol: 25.08 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1145

PercentSolids: 75.5 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC06 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	70.8	U	70.8	285
108-95-2	Phenol	68.6	U	68.6	1410
95-57-8	2-Chlorophenol	72.9	U	72.9	285
108-60-1	2,2'-Oxybis(1-chloropropane)	232	U	232	285
95-48-7	2-Methylphenol	101	U	101	282
67-72-1	Hexachloroethane	52.8	U	52.8	285
621-64-7	N-Nitroso-di-n-propylamine	64.4	U	64.4	285
106-44-5	4-Methylphenol	88.1	J	62.3	285
98-95-3	Nitrobenzene	63.4	U	63.4	285
78-59-1	Isophorone	62.3	U	62.3	285
88-75-5	2-Nitrophenol	76	U	76	285
105-67-9	2,4-Dimethylphenol	60.2	U	60.2	282
111-91-1	Bis(2-chloroethoxy)methane	60.2	U	60.2	282
120-83-2	2,4-Dichlorophenol	79.2	U	79.2	282
91-20-3	Naphthalene	67.6	U	67.6	285
106-47-8	4-Chloroaniline	66.5	U	66.5	285
91-57-6	2-Methylnaphthalene	61.2	U	61.2	285
87-68-3	Hexachlorobutadiene	61.2	U	61.2	285
59-50-7	4-Chloro-3-methylphenol	59.1	U	59.1	285
77-47-4	Hexachlorocyclopentadiene	42.2	U	42.2	704
88-06-2	2,4,6-Trichlorophenol	71.8	U	71.8	282
95-95-4	2,4,5-Trichlorophenol	78.2	U	78.2	282
91-58-7	2-Chloronaphthalene	70.4	U	70.4	285
88-74-4	2-Nitroaniline	60.2	U	60.2	285
208-96-8	Acenaphthylene	58.1	U	58.1	285
131-11-3	Dimethylphthalate	62.3	U	62.3	285

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-07

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584301 Lab File ID: 84301.D

Sample wt/vol: 25.08 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1145

PercentSolids: 75.5 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC06 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	52.8	U	52.8	285
83-32-9	Acenaphthene	51.8	U	51.8	285
99-09-2	3-Nitroaniline	84.5	U	84.5	282
51-28-5	2,4-Dinitrophenol	232	U	232	1420
132-64-9	Dibenzofuran	57	U	57	285
121-14-2	2,4-Dinitrotoluene	51.8	U	51.8	285
100-02-7	4-Nitrophenol	56	U	56	704
86-73-7	Fluorene	53.9	U	53.9	285
7005-72-3	4-Chlorophenyl-phenylether	53.9	U	53.9	285
84-66-2	Diethylphthalate	53.9	U	53.9	285
100-01-6	4-Nitroaniline	92.9	U	92.9	282
534-52-1	4,6-Dinitro-2-methylphenol	281	U	281	285
86-30-6	N-Nitrosodiphenylamine	66.5	U	66.5	282
101-55-3	4-Bromophenyl-phenylether	51.8	U	51.8	285
118-74-1	Hexachlorobenzene	56	U	56	282
87-86-5	Pentachlorophenol	140	U	140	285
85-01-8	Phenanthrene	230	J	59.1	285
120-12-7	Anthracene	75.6	J	63.4	285
84-74-2	Di-n-butylphthalate	46.5	U	46.5	285
206-44-0	Fluoranthene	785		50.7	285
129-00-0	Pyrene	667		97.2	285
85-68-7	Butylbenzylphthalate	66.5	U	66.5	285
91-94-1	3,3'-Dichlorobenzidine	62.3	U	62.3	285
56-55-3	Benzo(a)anthracene	449		60.2	285
218-01-9	Chrysene	489		35.9	282
117-81-7	Bis(2-ethylhexyl)phthalate	87.7	U	87.7	285

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-07

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584301 Lab File ID: 84301.D

Sample wt/vol: 25.08 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1145

PercentSolids: 75.5 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC06 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	61.2	U	61.2	285
205-99-2	Benzo(b)fluoranthene	526		66.5	285
207-08-9	Benzo(k)fluoranthene	421		60.2	285
50-32-8	Benzo(a)pyrene	400		45.4	285
193-39-5	Indeno(1,2,3-cd)pyrene	204	J	54.9	285
53-70-3	Dibenzo(a,h)anthracene	71.8	J	43.3	285
191-24-2	Benzo(g,h,i)perylene	232	J	42.2	285
98-86-2	Acetophenone	106	U	106	285
95-94-3	1,2,4,5-Tetrachlorobenzene	49.6	U	49.6	285
86-74-8	Carbazole	57	U	57	285
105-60-2	Caprolactam	148	U	148	285
92-52-4	1,1'-Biphenyl	64.4	U	64.4	285
1912-24-9	Atrazine	83.4	U	83.4	285
100-52-7	Benzaldehyde	47.5	U	47.5	285

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-08

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584304 Lab File ID: 84304.D

Sample wt/vol: 25.39 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1409

PercentSolids: 97.1 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC07 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	54.4	U	54.4	219
108-95-2	Phenol	52.7	U	52.7	1080
95-57-8	2-Chlorophenol	56	U	56	219
108-60-1	2,2'-Oxybis(1-chloropropane)	178	U	178	219
95-48-7	2-Methylphenol	77.9	U	77.9	216
67-72-1	Hexachloroethane	40.6	U	40.6	219
621-64-7	N-Nitroso-di-n-propylamine	49.5	U	49.5	219
106-44-5	4-Methylphenol	47.9	U	47.9	219
98-95-3	Nitrobenzene	48.7	U	48.7	219
78-59-1	Isophorone	47.9	U	47.9	219
88-75-5	2-Nitrophenol	58.4	U	58.4	219
105-67-9	2,4-Dimethylphenol	46.2	U	46.2	216
111-91-1	Bis(2-chloroethoxy)methane	46.2	U	46.2	216
120-83-2	2,4-Dichlorophenol	60.8	U	60.8	216
91-20-3	Naphthalene	51.9	U	51.9	219
106-47-8	4-Chloroaniline	51.1	U	51.1	219
91-57-6	2-Methylnaphthalene	47	U	47	219
87-68-3	Hexachlorobutadiene	47	U	47	219
59-50-7	4-Chloro-3-methylphenol	45.4	U	45.4	219
77-47-4	Hexachlorocyclopentadiene	32.4	U	32.4	541
88-06-2	2,4,6-Trichlorophenol	55.2	U	55.2	216
95-95-4	2,4,5-Trichlorophenol	60	U	60	216
91-58-7	2-Chloronaphthalene	54.1	U	54.1	219
88-74-4	2-Nitroaniline	46.2	U	46.2	219
208-96-8	Acenaphthylene	44.6	U	44.6	219
131-11-3	Dimethylphthalate	47.9	U	47.9	219

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-08

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584304 Lab File ID: 84304.D

Sample wt/vol: 25.39 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1409

PercentSolids: 97.1 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC07 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	40.6	U	40.6	219
83-32-9	Acenaphthene	39.7	U	39.7	219
99-09-2	3-Nitroaniline	64.9	U	64.9	216
51-28-5	2,4-Dinitrophenol	178	U	178	1090
132-64-9	Dibenzofuran	43.8	U	43.8	219
121-14-2	2,4-Dinitrotoluene	39.7	U	39.7	219
100-02-7	4-Nitrophenol	43	U	43	541
86-73-7	Fluorene	41.4	U	41.4	219
7005-72-3	4-Chlorophenyl-phenylether	41.4	U	41.4	219
84-66-2	Diethylphthalate	41.4	U	41.4	219
100-01-6	4-Nitroaniline	71.4	U	71.4	216
534-52-1	4,6-Dinitro-2-methylphenol	216	U	216	219
86-30-6	N-Nitrosodiphenylamine	51.1	U	51.1	216
101-55-3	4-Bromophenyl-phenylether	39.7	U	39.7	219
118-74-1	Hexachlorobenzene	43	U	43	216
87-86-5	Pentachlorophenol	108	U	108	219
85-01-8	Phenanthrene	215	J	45.4	219
120-12-7	Anthracene	48.7	U	48.7	219
84-74-2	Di-n-butylphthalate	35.7	U	35.7	219
206-44-0	Fluoranthene	380		38.9	219
129-00-0	Pyrene	317		74.6	219
85-68-7	Butylbenzylphthalate	51.1	U	51.1	219
91-94-1	3,3'-Dichlorobenzidine	47.9	U	47.9	219
56-55-3	Benzo(a)anthracene	172	J	46.2	219
218-01-9	Chrysene	187	J	27.6	216
117-81-7	Bis(2-ethylhexyl)phthalate	67.3	U	67.3	219

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-08

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584304 Lab File ID: 84304.D

Sample wt/vol: 25.39 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1409

PercentSolids: 97.1 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC07 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	47	U	47	219
205-99-2	Benzo(b)fluoranthene	210	J	51.1	219
207-08-9	Benzo(k)fluoranthene	87.6	J	46.2	219
50-32-8	Benzo(a)pyrene	129	J	34.9	219
193-39-5	Indeno(1,2,3-cd)pyrene	79.2	J	42.2	219
53-70-3	Dibenzo(a,h)anthracene	33.2	U	33.2	219
191-24-2	Benzo(g,h,i)perylene	88.6	J	32.4	219
98-86-2	Acetophenone	81.1	U	81.1	219
95-94-3	1,2,4,5-Tetrachlorobenzene	38.1	U	38.1	219
86-74-8	Carbazole	43.8	U	43.8	219
105-60-2	Caprolactam	114	U	114	219
92-52-4	1,1'-Biphenyl	49.5	U	49.5	219
1912-24-9	Atrazine	64.1	U	64.1	219
100-52-7	Benzaldehyde	36.5	U	36.5	219

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-09

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584305 Lab File ID: 84305.D

Sample wt/vol: 25.06 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1433

PercentSolids: 77.7 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC08 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	68.8	U	68.8	277
108-95-2	Phenol	66.8	U	66.8	1370
95-57-8	2-Chlorophenol	70.9	U	70.9	277
108-60-1	2,2'-Oxybis(1-chloropropane)	226	U	226	277
95-48-7	2-Methylphenol	98.6	U	98.6	274
67-72-1	Hexachloroethane	51.4	U	51.4	277
621-64-7	N-Nitroso-di-n-propylamine	62.6	U	62.6	277
106-44-5	4-Methylphenol	60.6	U	60.6	277
98-95-3	Nitrobenzene	61.6	U	61.6	277
78-59-1	Isophorone	60.6	U	60.6	277
88-75-5	2-Nitrophenol	74	U	74	277
105-67-9	2,4-Dimethylphenol	58.5	U	58.5	274
111-91-1	Bis(2-chloroethoxy)methane	58.5	U	58.5	274
120-83-2	2,4-Dichlorophenol	77	U	77	274
91-20-3	Naphthalene	65.7	U	65.7	277
106-47-8	4-Chloroaniline	64.7	U	64.7	277
91-57-6	2-Methylnaphthalene	59.6	U	59.6	277
87-68-3	Hexachlorobutadiene	59.6	U	59.6	277
59-50-7	4-Chloro-3-methylphenol	57.5	U	57.5	277
77-47-4	Hexachlorocyclopentadiene	41.1	U	41.1	685
88-06-2	2,4,6-Trichlorophenol	69.8	U	69.8	274
95-95-4	2,4,5-Trichlorophenol	76	U	76	274
91-58-7	2-Chloronaphthalene	68.5	U	68.5	277
88-74-4	2-Nitroaniline	58.5	U	58.5	277
208-96-8	Acenaphthylene	56.5	U	56.5	277
131-11-3	Dimethylphthalate	60.6	U	60.6	277

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-09

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584305 Lab File ID: 84305.D

Sample wt/vol: 25.06 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1433

PercentSolids: 77.7 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC08 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	51.4	U	51.4	277
83-32-9	Acenaphthene	50.3	U	50.3	277
99-09-2	3-Nitroaniline	82.2	U	82.2	274
51-28-5	2,4-Dinitrophenol	226	U	226	1380
132-64-9	Dibenzofuran	55.5	U	55.5	277
121-14-2	2,4-Dinitrotoluene	50.3	U	50.3	277
100-02-7	4-Nitrophenol	54.4	U	54.4	685
86-73-7	Fluorene	52.4	U	52.4	277
7005-72-3	4-Chlorophenyl-phenylether	52.4	U	52.4	277
84-66-2	Diethylphthalate	52.4	U	52.4	277
100-01-6	4-Nitroaniline	90.4	U	90.4	274
534-52-1	4,6-Dinitro-2-methylphenol	273	U	273	277
86-30-6	N-Nitrosodiphenylamine	64.7	U	64.7	274
101-55-3	4-Bromophenyl-phenylether	50.3	U	50.3	277
118-74-1	Hexachlorobenzene	54.4	U	54.4	274
87-86-5	Pentachlorophenol	137	U	137	277
85-01-8	Phenanthrene	57.5	U	57.5	277
120-12-7	Anthracene	61.6	U	61.6	277
84-74-2	Di-n-butylphthalate	45.2	U	45.2	277
206-44-0	Fluoranthene	214	J	49.3	277
129-00-0	Pyrene	252	J	94.5	277
85-68-7	Butylbenzylphthalate	64.7	U	64.7	277
91-94-1	3,3'-Dichlorobenzidine	60.6	U	60.6	277
56-55-3	Benzo(a)anthracene	161	J	58.5	277
218-01-9	Chrysene	161	J	34.9	274
117-81-7	Bis(2-ethylhexyl)phthalate	85.2	U	85.2	277

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-09

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584305 Lab File ID: 84305.D

Sample wt/vol: 25.06 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1433

PercentSolids: 77.7 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC08 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	59.6	U	59.6	277
205-99-2	Benzo(b)fluoranthene	163	J	64.7	277
207-08-9	Benzo(k)fluoranthene	77.4	J	58.5	277
50-32-8	Benzo(a)pyrene	108	J	44.2	277
193-39-5	Indeno(1,2,3-cd)pyrene	57.9	J	53.4	277
53-70-3	Dibenzo(a,h)anthracene	42.1	U	42.1	277
191-24-2	Benzo(g,h,i)perylene	65.7	J	41.1	277
98-86-2	Acetophenone	103	U	103	277
95-94-3	1,2,4,5-Tetrachlorobenzene	48.3	U	48.3	277
86-74-8	Carbazole	55.5	U	55.5	277
105-60-2	Caprolactam	144	U	144	277
92-52-4	1,1'-Biphenyl	62.6	U	62.6	277
1912-24-9	Atrazine	81.1	U	81.1	277
100-52-7	Benzaldehyde	46.2	U	46.2	277

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-10

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584306 Lab File ID: 84306.D

Sample wt/vol: 25.81 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1457

PercentSolids: 79.7 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC09 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	65.1	U	65.1	262
108-95-2	Phenol	63.2	U	63.2	1300
95-57-8	2-Chlorophenol	67.1	U	67.1	262
108-60-1	2,2'-Oxybis(1-chloropropane)	214	U	214	262
95-48-7	2-Methylphenol	93.3	U	93.3	260
67-72-1	Hexachloroethane	48.6	U	48.6	262
621-64-7	N-Nitroso-di-n-propylamine	59.3	U	59.3	262
106-44-5	4-Methylphenol	57.4	U	57.4	262
98-95-3	Nitrobenzene	58.3	U	58.3	262
78-59-1	Isophorone	57.4	U	57.4	262
88-75-5	2-Nitrophenol	70	U	70	262
105-67-9	2,4-Dimethylphenol	55.4	U	55.4	260
111-91-1	Bis(2-chloroethoxy)methane	55.4	U	55.4	260
120-83-2	2,4-Dichlorophenol	72.9	U	72.9	260
91-20-3	Naphthalene	62.9	J	62.2	262
106-47-8	4-Chloroaniline	61.2	U	61.2	262
91-57-6	2-Methylnaphthalene	56.4	U	56.4	262
87-68-3	Hexachlorobutadiene	56.4	U	56.4	262
59-50-7	4-Chloro-3-methylphenol	54.4	U	54.4	262
77-47-4	Hexachlorocyclopentadiene	38.9	U	38.9	648
88-06-2	2,4,6-Trichlorophenol	66.1	U	66.1	260
95-95-4	2,4,5-Trichlorophenol	72	U	72	260
91-58-7	2-Chloronaphthalene	64.8	U	64.8	262
88-74-4	2-Nitroaniline	55.4	U	55.4	262
208-96-8	Acenaphthylene	84.4	J	53.5	262
131-11-3	Dimethylphthalate	57.4	U	57.4	262

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-10

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584306 Lab File ID: 84306.D

Sample wt/vol: 25.81 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1457

PercentSolids: 79.7 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC09 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	48.6	U	48.6	262
83-32-9	Acenaphthene	47.6	U	47.6	262
99-09-2	3-Nitroaniline	77.8	U	77.8	260
51-28-5	2,4-Dinitrophenol	214	U	214	1300
132-64-9	Dibenzofuran	61.7	J	52.5	262
121-14-2	2,4-Dinitrotoluene	47.6	U	47.6	262
100-02-7	4-Nitrophenol	51.5	U	51.5	648
86-73-7	Fluorene	122	J	49.6	262
7005-72-3	4-Chlorophenyl-phenylether	49.6	U	49.6	262
84-66-2	Diethylphthalate	49.6	U	49.6	262
100-01-6	4-Nitroaniline	85.6	U	85.6	260
534-52-1	4,6-Dinitro-2-methylphenol	259	U	259	262
86-30-6	N-Nitrosodiphenylamine	61.2	U	61.2	260
101-55-3	4-Bromophenyl-phenylether	47.6	U	47.6	262
118-74-1	Hexachlorobenzene	51.5	U	51.5	260
87-86-5	Pentachlorophenol	129	U	129	262
85-01-8	Phenanthrene	574		54.4	262
120-12-7	Anthracene	154	J	58.3	262
84-74-2	Di-n-butylphthalate	42.8	U	42.8	262
206-44-0	Fluoranthene	630		46.7	262
129-00-0	Pyrene	495		89.4	262
85-68-7	Butylbenzylphthalate	61.2	U	61.2	262
91-94-1	3,3'-Dichlorobenzidine	57.4	U	57.4	262
56-55-3	Benzo(a)anthracene	338		55.4	262
218-01-9	Chrysene	326		33	260
117-81-7	Bis(2-ethylhexyl)phthalate	80.7	U	80.7	262

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-10

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584306 Lab File ID: 84306.D

Sample wt/vol: 25.81 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1457

PercentSolids: 79.7 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC09 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	56.4	U	56.4	262
205-99-2	Benzo(b)fluoranthene	350		61.2	262
207-08-9	Benzo(k)fluoranthene	123	J	55.4	262
50-32-8	Benzo(a)pyrene	227	J	41.8	262
193-39-5	Indeno(1,2,3-cd)pyrene	104	J	50.5	262
53-70-3	Dibenzo(a,h)anthracene	50.2	J	39.9	262
191-24-2	Benzo(g,h,i)perylene	118	J	38.9	262
98-86-2	Acetophenone	97.2	U	97.2	262
95-94-3	1,2,4,5-Tetrachlorobenzene	45.7	U	45.7	262
86-74-8	Carbazole	76.6	J	52.5	262
105-60-2	Caprolactam	136	U	136	262
92-52-4	1,1'-Biphenyl	59.3	U	59.3	262
1912-24-9	Atrazine	76.8	U	76.8	262
100-52-7	Benzaldehyde	43.8	U	43.8	262

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-11

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584307 Lab File ID: 84307.D

Sample wt/vol: 25.15 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1521

PercentSolids: 78.4 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC10 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	68	U	68	274
108-95-2	Phenol	65.9	U	65.9	1350
95-57-8	2-Chlorophenol	70	U	70	274
108-60-1	2,2'-Oxybis(1-chloropropane)	223	U	223	274
95-48-7	2-Methylphenol	97.4	U	97.4	271
67-72-1	Hexachloroethane	50.7	U	50.7	274
621-64-7	N-Nitroso-di-n-propylamine	61.9	U	61.9	274
106-44-5	4-Methylphenol	59.8	U	59.8	274
98-95-3	Nitrobenzene	60.8	U	60.8	274
78-59-1	Isophorone	59.8	U	59.8	274
88-75-5	2-Nitrophenol	73	U	73	274
105-67-9	2,4-Dimethylphenol	57.8	U	57.8	271
111-91-1	Bis(2-chloroethoxy)methane	57.8	U	57.8	271
120-83-2	2,4-Dichlorophenol	76.1	U	76.1	271
91-20-3	Naphthalene	64.9	U	64.9	274
106-47-8	4-Chloroaniline	63.9	U	63.9	274
91-57-6	2-Methylnaphthalene	58.8	U	58.8	274
87-68-3	Hexachlorobutadiene	58.8	U	58.8	274
59-50-7	4-Chloro-3-methylphenol	56.8	U	56.8	274
77-47-4	Hexachlorocyclopentadiene	40.6	U	40.6	676
88-06-2	2,4,6-Trichlorophenol	69	U	69	271
95-95-4	2,4,5-Trichlorophenol	75	U	75	271
91-58-7	2-Chloronaphthalene	67.6	U	67.6	274
88-74-4	2-Nitroaniline	57.8	U	57.8	274
208-96-8	Acenaphthylene	55.8	U	55.8	274
131-11-3	Dimethylphthalate	59.8	U	59.8	274

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-11

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584307 Lab File ID: 84307.D

Sample wt/vol: 25.15 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1521

PercentSolids: 78.4 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC10 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	50.7	U	50.7	274
83-32-9	Acenaphthene	49.7	U	49.7	274
99-09-2	3-Nitroaniline	81.1	U	81.1	271
51-28-5	2,4-Dinitrophenol	223	U	223	1360
132-64-9	Dibenzofuran	54.8	U	54.8	274
121-14-2	2,4-Dinitrotoluene	49.7	U	49.7	274
100-02-7	4-Nitrophenol	53.8	U	53.8	676
86-73-7	Fluorene	51.7	U	51.7	274
7005-72-3	4-Chlorophenyl-phenylether	51.7	U	51.7	274
84-66-2	Diethylphthalate	51.7	U	51.7	274
100-01-6	4-Nitroaniline	89.2	U	89.2	271
534-52-1	4,6-Dinitro-2-methylphenol	270	U	270	274
86-30-6	N-Nitrosodiphenylamine	63.9	U	63.9	271
101-55-3	4-Bromophenyl-phenylether	49.7	U	49.7	274
118-74-1	Hexachlorobenzene	53.8	U	53.8	271
87-86-5	Pentachlorophenol	135	U	135	274
85-01-8	Phenanthrene	56.8	U	56.8	274
120-12-7	Anthracene	60.8	U	60.8	274
84-74-2	Di-n-butylphthalate	44.6	U	44.6	274
206-44-0	Fluoranthene	275		48.7	274
129-00-0	Pyrene	265	J	93.3	274
85-68-7	Butylbenzylphthalate	63.9	U	63.9	274
91-94-1	3,3'-Dichlorobenzidine	59.8	U	59.8	274
56-55-3	Benzo(a)anthracene	176	J	57.8	274
218-01-9	Chrysene	183	J	34.5	271
117-81-7	Bis(2-ethylhexyl)phthalate	84.2	U	84.2	274

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-11

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584307 Lab File ID: 84307.D

Sample wt/vol: 25.15 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1521

PercentSolids: 78.4 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC10 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	58.8	U	58.8	274
205-99-2	Benzo(b)fluoranthene	186	J	63.9	274
207-08-9	Benzo(k)fluoranthene	91.8	J	57.8	274
50-32-8	Benzo(a)pyrene	118	J	43.6	274
193-39-5	Indeno(1,2,3-cd)pyrene	60.6	J	52.7	274
53-70-3	Dibenzo(a,h)anthracene	41.6	U	41.6	274
191-24-2	Benzo(g,h,i)perylene	70.2	J	40.6	274
98-86-2	Acetophenone	101	U	101	274
95-94-3	1,2,4,5-Tetrachlorobenzene	47.7	U	47.7	274
86-74-8	Carbazole	54.8	U	54.8	274
105-60-2	Caprolactam	142	U	142	274
92-52-4	1,1'-Biphenyl	61.9	U	61.9	274
1912-24-9	Atrazine	80.1	U	80.1	274
100-52-7	Benzaldehyde	45.6	U	45.6	274

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-12

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584308 Lab File ID: 84308.D

Sample wt/vol: 25.52 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1545

PercentSolids: 84.4 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC11 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	62.2	U	62.2	251
108-95-2	Phenol	60.4	U	60.4	1240
95-57-8	2-Chlorophenol	64.1	U	64.1	251
108-60-1	2,2'-Oxybis(1-chloropropane)	204	U	204	251
95-48-7	2-Methylphenol	89.1	U	89.1	248
67-72-1	Hexachloroethane	46.4	U	46.4	251
621-64-7	N-Nitroso-di-n-propylamine	56.6	U	56.6	251
106-44-5	4-Methylphenol	54.8	U	54.8	251
98-95-3	Nitrobenzene	55.7	U	55.7	251
78-59-1	Isophorone	54.8	U	54.8	251
88-75-5	2-Nitrophenol	66.8	U	66.8	251
105-67-9	2,4-Dimethylphenol	52.9	U	52.9	248
111-91-1	Bis(2-chloroethoxy)methane	52.9	U	52.9	248
120-83-2	2,4-Dichlorophenol	69.6	U	69.6	248
91-20-3	Naphthalene	342		59.4	251
106-47-8	4-Chloroaniline	58.5	U	58.5	251
91-57-6	2-Methylnaphthalene	65.7	J	53.8	251
87-68-3	Hexachlorobutadiene	53.8	U	53.8	251
59-50-7	4-Chloro-3-methylphenol	52	U	52	251
77-47-4	Hexachlorocyclopentadiene	37.1	U	37.1	619
88-06-2	2,4,6-Trichlorophenol	63.1	U	63.1	248
95-95-4	2,4,5-Trichlorophenol	68.7	U	68.7	248
91-58-7	2-Chloronaphthalene	61.9	U	61.9	251
88-74-4	2-Nitroaniline	52.9	U	52.9	251
208-96-8	Acenaphthylene	97.7	J	51.1	251
131-11-3	Dimethylphthalate	54.8	U	54.8	251

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-12

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584308 Lab File ID: 84308.D

Sample wt/vol: 25.52 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1545

PercentSolids: 84.4 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC11 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	46.4	U	46.4	251
83-32-9	Acenaphthene	45.5	U	45.5	251
99-09-2	3-Nitroaniline	74.3	U	74.3	248
51-28-5	2,4-Dinitrophenol	204	U	204	1240
132-64-9	Dibenzofuran	57.3	J	50.1	251
121-14-2	2,4-Dinitrotoluene	45.5	U	45.5	251
100-02-7	4-Nitrophenol	49.2	U	49.2	619
86-73-7	Fluorene	55.3	J	47.4	251
7005-72-3	4-Chlorophenyl-phenylether	47.4	U	47.4	251
84-66-2	Diethylphthalate	47.4	U	47.4	251
100-01-6	4-Nitroaniline	81.7	U	81.7	248
534-52-1	4,6-Dinitro-2-methylphenol	247	U	247	251
86-30-6	N-Nitrosodiphenylamine	58.5	U	58.5	248
101-55-3	4-Bromophenyl-phenylether	45.5	U	45.5	251
118-74-1	Hexachlorobenzene	49.2	U	49.2	248
87-86-5	Pentachlorophenol	124	U	124	251
85-01-8	Phenanthrene	373		52	251
120-12-7	Anthracene	176	J	55.7	251
84-74-2	Di-n-butylphthalate	40.8	U	40.8	251
206-44-0	Fluoranthene	1060		44.6	251
129-00-0	Pyrene	878		85.4	251
85-68-7	Butylbenzylphthalate	58.5	U	58.5	251
91-94-1	3,3'-Dichlorobenzidine	54.8	U	54.8	251
56-55-3	Benzo(a)anthracene	574		52.9	251
218-01-9	Chrysene	550		31.6	248
117-81-7	Bis(2-ethylhexyl)phthalate	77.1	U	77.1	251

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-12

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584308 Lab File ID: 84308.D

Sample wt/vol: 25.52 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1545

PercentSolids: 84.4 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC11 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	53.8	U	53.8	251
205-99-2	Benzo(b)fluoranthene	569		58.5	251
207-08-9	Benzo(k)fluoranthene	279		52.9	251
50-32-8	Benzo(a)pyrene	397		39.9	251
193-39-5	Indeno(1,2,3-cd)pyrene	192	J	48.3	251
53-70-3	Dibenzo(a,h)anthracene	71.6	J	38.1	251
191-24-2	Benzo(g,h,i)perylene	215	J	37.1	251
98-86-2	Acetophenone	92.9	U	92.9	251
95-94-3	1,2,4,5-Tetrachlorobenzene	43.6	U	43.6	251
86-74-8	Carbazole	69.8	J	50.1	251
105-60-2	Caprolactam	130	U	130	251
92-52-4	1,1'-Biphenyl	56.6	U	56.6	251
1912-24-9	Atrazine	73.4	U	73.4	251
100-52-7	Benzaldehyde	41.8	U	41.8	251

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-13

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584309 Lab File ID: 84309.D

Sample wt/vol: 25.22 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1609

PercentSolids: 78 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC12 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	68.1	U	68.1	274
108-95-2	Phenol	66.1	U	66.1	1360
95-57-8	2-Chlorophenol	70.2	U	70.2	274
108-60-1	2,2'-Oxybis(1-chloropropane)	224	U	224	274
95-48-7	2-Methylphenol	97.6	U	97.6	271
67-72-1	Hexachloroethane	50.8	U	50.8	274
621-64-7	N-Nitroso-di-n-propylamine	62	U	62	274
106-44-5	4-Methylphenol	60	U	60	274
98-95-3	Nitrobenzene	61	U	61	274
78-59-1	Isophorone	60	U	60	274
88-75-5	2-Nitrophenol	73.2	U	73.2	274
105-67-9	2,4-Dimethylphenol	58	U	58	271
111-91-1	Bis(2-chloroethoxy)methane	58	U	58	271
120-83-2	2,4-Dichlorophenol	76.2	U	76.2	271
91-20-3	Naphthalene	121	J	65.1	274
106-47-8	4-Chloroaniline	64	U	64	274
91-57-6	2-Methylnaphthalene	59	U	59	274
87-68-3	Hexachlorobutadiene	59	U	59	274
59-50-7	4-Chloro-3-methylphenol	56.9	U	56.9	274
77-47-4	Hexachlorocyclopentadiene	40.7	U	40.7	678
88-06-2	2,4,6-Trichlorophenol	69.1	U	69.1	271
95-95-4	2,4,5-Trichlorophenol	75.2	U	75.2	271
91-58-7	2-Chloronaphthalene	67.8	U	67.8	274
88-74-4	2-Nitroaniline	58	U	58	274
208-96-8	Acenaphthylene	55.9	U	55.9	274
131-11-3	Dimethylphthalate	60	U	60	274

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-13

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584309 Lab File ID: 84309.D

Sample wt/vol: 25.22 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1609

PercentSolids: 78 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC12 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	50.8	U	50.8	274
83-32-9	Acenaphthene	49.8	U	49.8	274
99-09-2	3-Nitroaniline	81.3	U	81.3	271
51-28-5	2,4-Dinitrophenol	224	U	224	1360
132-64-9	Dibenzofuran	54.9	U	54.9	274
121-14-2	2,4-Dinitrotoluene	49.8	U	49.8	274
100-02-7	4-Nitrophenol	53.9	U	53.9	678
86-73-7	Fluorene	58.9	J	51.8	274
7005-72-3	4-Chlorophenyl-phenylether	51.8	U	51.8	274
84-66-2	Diethylphthalate	51.8	U	51.8	274
100-01-6	4-Nitroaniline	89.5	U	89.5	271
534-52-1	4,6-Dinitro-2-methylphenol	270	U	270	274
86-30-6	N-Nitrosodiphenylamine	64	U	64	271
101-55-3	4-Bromophenyl-phenylether	49.8	U	49.8	274
118-74-1	Hexachlorobenzene	53.9	U	53.9	271
87-86-5	Pentachlorophenol	135	U	135	274
85-01-8	Phenanthrene	534		56.9	274
120-12-7	Anthracene	142	J	61	274
84-74-2	Di-n-butylphthalate	44.7	U	44.7	274
206-44-0	Fluoranthene	910		48.8	274
129-00-0	Pyrene	914		93.5	274
85-68-7	Butylbenzylphthalate	64	U	64	274
91-94-1	3,3'-Dichlorobenzidine	60	U	60	274
56-55-3	Benzo(a)anthracene	466		58	274
218-01-9	Chrysene	591		34.6	271
117-81-7	Bis(2-ethylhexyl)phthalate	84.4	U	84.4	274

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-13

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584309 Lab File ID: 84309.D

Sample wt/vol: 25.22 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1609

PercentSolids: 78 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC12 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	59	U	59	274
205-99-2	Benzo(b)fluoranthene	603		64	274
207-08-9	Benzo(k)fluoranthene	454		58	274
50-32-8	Benzo(a)pyrene	362		43.7	274
193-39-5	Indeno(1,2,3-cd)pyrene	206	J	52.9	274
53-70-3	Dibenzo(a,h)anthracene	41.7	U	41.7	274
191-24-2	Benzo(g,h,i)perylene	235	J	40.7	274
98-86-2	Acetophenone	102	U	102	274
95-94-3	1,2,4,5-Tetrachlorobenzene	47.8	U	47.8	274
86-74-8	Carbazole	61.3	J	54.9	274
105-60-2	Caprolactam	142	U	142	274
92-52-4	1,1'-Biphenyl	62	U	62	274
1912-24-9	Atrazine	80.3	U	80.3	274
100-52-7	Benzaldehyde	45.8	U	45.8	274

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-14

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584310 Lab File ID: 84310.D

Sample wt/vol: 25.67 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1632

PercentSolids: 80.6 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC13 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	64.8	U	64.8	261
108-95-2	Phenol	62.8	U	62.8	1290
95-57-8	2-Chlorophenol	66.7	U	66.7	261
108-60-1	2,2'-Oxybis(1-chloropropane)	213	U	213	261
95-48-7	2-Methylphenol	92.8	U	92.8	258
67-72-1	Hexachloroethane	48.3	U	48.3	261
621-64-7	N-Nitroso-di-n-propylamine	59	U	59	261
106-44-5	4-Methylphenol	57	U	57	261
98-95-3	Nitrobenzene	58	U	58	261
78-59-1	Isophorone	57	U	57	261
88-75-5	2-Nitrophenol	69.6	U	69.6	261
105-67-9	2,4-Dimethylphenol	55.1	U	55.1	258
111-91-1	Bis(2-chloroethoxy)methane	55.1	U	55.1	258
120-83-2	2,4-Dichlorophenol	72.5	U	72.5	258
91-20-3	Naphthalene	61.9	U	61.9	261
106-47-8	4-Chloroaniline	60.9	U	60.9	261
91-57-6	2-Methylnaphthalene	56.1	U	56.1	261
87-68-3	Hexachlorobutadiene	56.1	U	56.1	261
59-50-7	4-Chloro-3-methylphenol	54.1	U	54.1	261
77-47-4	Hexachlorocyclopentadiene	38.7	U	38.7	645
88-06-2	2,4,6-Trichlorophenol	65.7	U	65.7	258
95-95-4	2,4,5-Trichlorophenol	71.5	U	71.5	258
91-58-7	2-Chloronaphthalene	64.5	U	64.5	261
88-74-4	2-Nitroaniline	55.1	U	55.1	261
208-96-8	Acenaphthylene	53.2	U	53.2	261
131-11-3	Dimethylphthalate	57	U	57	261

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-14

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584310 Lab File ID: 84310.D

Sample wt/vol: 25.67 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1632

PercentSolids: 80.6 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC13 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	48.3	U	48.3	261
83-32-9	Acenaphthene	47.4	U	47.4	261
99-09-2	3-Nitroaniline	77.3	U	77.3	258
51-28-5	2,4-Dinitrophenol	213	U	213	1300
132-64-9	Dibenzofuran	52.2	U	52.2	261
121-14-2	2,4-Dinitrotoluene	47.4	U	47.4	261
100-02-7	4-Nitrophenol	51.2	U	51.2	645
86-73-7	Fluorene	49.3	U	49.3	261
7005-72-3	4-Chlorophenyl-phenylether	49.3	U	49.3	261
84-66-2	Diethylphthalate	49.3	U	49.3	261
100-01-6	4-Nitroaniline	85.1	U	85.1	258
534-52-1	4,6-Dinitro-2-methylphenol	257	U	257	261
86-30-6	N-Nitrosodiphenylamine	60.9	U	60.9	258
101-55-3	4-Bromophenyl-phenylether	47.4	U	47.4	261
118-74-1	Hexachlorobenzene	51.2	U	51.2	258
87-86-5	Pentachlorophenol	128	U	128	261
85-01-8	Phenanthrene	730		54.1	261
120-12-7	Anthracene	169	J	58	261
84-74-2	Di-n-butylphthalate	42.5	U	42.5	261
206-44-0	Fluoranthene	1580		46.4	261
129-00-0	Pyrene	1200		88.9	261
85-68-7	Butylbenzylphthalate	60.9	U	60.9	261
91-94-1	3,3'-Dichlorobenzidine	57	U	57	261
56-55-3	Benzo(a)anthracene	767		55.1	261
218-01-9	Chrysene	815		32.9	258
117-81-7	Bis(2-ethylhexyl)phthalate	80.2	U	80.2	261

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-14

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584310 Lab File ID: 84310.D

Sample wt/vol: 25.67 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1632

PercentSolids: 80.6 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC13 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	56.1	U	56.1	261
205-99-2	Benzo(b)fluoranthene	882		60.9	261
207-08-9	Benzo(k)fluoranthene	660		55.1	261
50-32-8	Benzo(a)pyrene	549		41.6	261
193-39-5	Indeno(1,2,3-cd)pyrene	292		50.3	261
53-70-3	Dibenzo(a,h)anthracene	124	J	39.6	261
191-24-2	Benzo(g,h,i)perylene	324		38.7	261
98-86-2	Acetophenone	96.7	U	96.7	261
95-94-3	1,2,4,5-Tetrachlorobenzene	45.4	U	45.4	261
86-74-8	Carbazole	142	J	52.2	261
105-60-2	Caprolactam	135	U	135	261
92-52-4	1,1'-Biphenyl	59	U	59	261
1912-24-9	Atrazine	76.4	U	76.4	261
100-52-7	Benzaldehyde	43.5	U	43.5	261

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-15

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584311 Lab File ID: 84311.D

Sample wt/vol: 25.45 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1656

PercentSolids: 82.2 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC14 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	64	U	64	258
108-95-2	Phenol	62.1	U	62.1	1280
95-57-8	2-Chlorophenol	66	U	66	258
108-60-1	2,2'-Oxybis(1-chloropropane)	210	U	210	258
95-48-7	2-Methylphenol	91.8	U	91.8	255
67-72-1	Hexachloroethane	47.8	U	47.8	258
621-64-7	N-Nitroso-di-n-propylamine	58.3	U	58.3	258
106-44-5	4-Methylphenol	56.4	U	56.4	258
98-95-3	Nitrobenzene	57.4	U	57.4	258
78-59-1	Isophorone	56.4	U	56.4	258
88-75-5	2-Nitrophenol	68.8	U	68.8	258
105-67-9	2,4-Dimethylphenol	54.5	U	54.5	255
111-91-1	Bis(2-chloroethoxy)methane	54.5	U	54.5	255
120-83-2	2,4-Dichlorophenol	71.7	U	71.7	255
91-20-3	Naphthalene	61.2	U	61.2	258
106-47-8	4-Chloroaniline	60.2	U	60.2	258
91-57-6	2-Methylnaphthalene	55.4	U	55.4	258
87-68-3	Hexachlorobutadiene	55.4	U	55.4	258
59-50-7	4-Chloro-3-methylphenol	53.5	U	53.5	258
77-47-4	Hexachlorocyclopentadiene	38.2	U	38.2	638
88-06-2	2,4,6-Trichlorophenol	65	U	65	255
95-95-4	2,4,5-Trichlorophenol	70.7	U	70.7	255
91-58-7	2-Chloronaphthalene	63.8	U	63.8	258
88-74-4	2-Nitroaniline	54.5	U	54.5	258
208-96-8	Acenaphthylene	52.6	U	52.6	258
131-11-3	Dimethylphthalate	56.4	U	56.4	258

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-15

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584311 Lab File ID: 84311.D

Sample wt/vol: 25.45 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1656

PercentSolids: 82.2 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC14 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	47.8	U	47.8	258
83-32-9	Acenaphthene	46.8	U	46.8	258
99-09-2	3-Nitroaniline	76.5	U	76.5	255
51-28-5	2,4-Dinitrophenol	210	U	210	1280
132-64-9	Dibenzofuran	51.6	U	51.6	258
121-14-2	2,4-Dinitrotoluene	46.8	U	46.8	258
100-02-7	4-Nitrophenol	50.7	U	50.7	638
86-73-7	Fluorene	48.8	U	48.8	258
7005-72-3	4-Chlorophenyl-phenylether	48.8	U	48.8	258
84-66-2	Diethylphthalate	48.8	U	48.8	258
100-01-6	4-Nitroaniline	84.1	U	84.1	255
534-52-1	4,6-Dinitro-2-methylphenol	254	U	254	258
86-30-6	N-Nitrosodiphenylamine	60.2	U	60.2	255
101-55-3	4-Bromophenyl-phenylether	46.8	U	46.8	258
118-74-1	Hexachlorobenzene	50.7	U	50.7	255
87-86-5	Pentachlorophenol	127	U	127	258
85-01-8	Phenanthrene	53.5	U	53.5	258
120-12-7	Anthracene	57.4	U	57.4	258
84-74-2	Di-n-butylphthalate	42.1	U	42.1	258
206-44-0	Fluoranthene	45.9	U	45.9	258
129-00-0	Pyrene	88	U	88	258
85-68-7	Butylbenzylphthalate	60.2	U	60.2	258
91-94-1	3,3'-Dichlorobenzidine	56.4	U	56.4	258
56-55-3	Benzo(a)anthracene	54.5	U	54.5	258
218-01-9	Chrysene	32.5	U	32.5	255
117-81-7	Bis(2-ethylhexyl)phthalate	79.3	U	79.3	258

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-15

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584311 Lab File ID: 84311.D

Sample wt/vol: 25.45 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1656

PercentSolids: 82.2 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC14 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	55.4	U	55.4	258
205-99-2	Benzo(b)fluoranthene	60.2	U	60.2	258
207-08-9	Benzo(k)fluoranthene	54.5	U	54.5	258
50-32-8	Benzo(a)pyrene	41.1	U	41.1	258
193-39-5	Indeno(1,2,3-cd)pyrene	49.7	U	49.7	258
53-70-3	Dibenzo(a,h)anthracene	39.2	U	39.2	258
191-24-2	Benzo(g,h,i)perylene	38.2	U	38.2	258
98-86-2	Acetophenone	95.6	U	95.6	258
95-94-3	1,2,4,5-Tetrachlorobenzene	44.9	U	44.9	258
86-74-8	Carbazole	51.6	U	51.6	258
105-60-2	Caprolactam	134	U	134	258
92-52-4	1,1'-Biphenyl	58.3	U	58.3	258
1912-24-9	Atrazine	75.5	U	75.5	258
100-52-7	Benzaldehyde	43	U	43	258

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-16

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584312 Lab File ID: 84312.D

Sample wt/vol: 25.38 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1720

PercentSolids: 80.1 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC11 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	65.9	U	65.9	266
108-95-2	Phenol	63.9	U	63.9	1310
95-57-8	2-Chlorophenol	67.9	U	67.9	266
108-60-1	2,2'-Oxybis(1-chloropropane)	216	U	216	266
95-48-7	2-Methylphenol	94.4	U	94.4	263
67-72-1	Hexachloroethane	49.2	U	49.2	266
621-64-7	N-Nitroso-di-n-propylamine	60	U	60	266
106-44-5	4-Methylphenol	58	U	58	266
98-95-3	Nitrobenzene	59	U	59	266
78-59-1	Isophorone	58	U	58	266
88-75-5	2-Nitrophenol	70.8	U	70.8	266
105-67-9	2,4-Dimethylphenol	56.1	U	56.1	263
111-91-1	Bis(2-chloroethoxy)methane	56.1	U	56.1	263
120-83-2	2,4-Dichlorophenol	73.8	U	73.8	263
91-20-3	Naphthalene	431		63	266
106-47-8	4-Chloroaniline	62	U	62	266
91-57-6	2-Methylnaphthalene	81.5	J	57.1	266
87-68-3	Hexachlorobutadiene	57.1	U	57.1	266
59-50-7	4-Chloro-3-methylphenol	55.1	U	55.1	266
77-47-4	Hexachlorocyclopentadiene	39.4	U	39.4	656
88-06-2	2,4,6-Trichlorophenol	66.9	U	66.9	263
95-95-4	2,4,5-Trichlorophenol	72.8	U	72.8	263
91-58-7	2-Chloronaphthalene	65.6	U	65.6	266
88-74-4	2-Nitroaniline	56.1	U	56.1	266
208-96-8	Acenaphthylene	86.3	J	54.1	266
131-11-3	Dimethylphthalate	58	U	58	266

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-16

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584312 Lab File ID: 84312.D

Sample wt/vol: 25.38 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1720

PercentSolids: 80.1 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC11 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	49.2	U	49.2	266
83-32-9	Acenaphthene	48.2	U	48.2	266
99-09-2	3-Nitroaniline	78.7	U	78.7	263
51-28-5	2,4-Dinitrophenol	216	U	216	1320
132-64-9	Dibenzofuran	77.6	J	53.1	266
121-14-2	2,4-Dinitrotoluene	48.2	U	48.2	266
100-02-7	4-Nitrophenol	52.1	U	52.1	656
86-73-7	Fluorene	66.6	J	50.2	266
7005-72-3	4-Chlorophenyl-phenylether	50.2	U	50.2	266
84-66-2	Diethylphthalate	50.2	U	50.2	266
100-01-6	4-Nitroaniline	86.6	U	86.6	263
534-52-1	4,6-Dinitro-2-methylphenol	262	U	262	266
86-30-6	N-Nitrosodiphenylamine	62	U	62	263
101-55-3	4-Bromophenyl-phenylether	48.2	U	48.2	266
118-74-1	Hexachlorobenzene	52.1	U	52.1	263
87-86-5	Pentachlorophenol	131	U	131	266
85-01-8	Phenanthrene	314		55.1	266
120-12-7	Anthracene	152	J	59	266
84-74-2	Di-n-butylphthalate	43.3	U	43.3	266
206-44-0	Fluoranthene	710		47.2	266
129-00-0	Pyrene	610		90.5	266
85-68-7	Butylbenzylphthalate	62	U	62	266
91-94-1	3,3'-Dichlorobenzidine	58	U	58	266
56-55-3	Benzo(a)anthracene	414		56.1	266
218-01-9	Chrysene	438		33.4	263
117-81-7	Bis(2-ethylhexyl)phthalate	81.6	U	81.6	266

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-16

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584312 Lab File ID: 84312.D

Sample wt/vol: 25.38 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1720

PercentSolids: 80.1 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC11 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	57.1	U	57.1	266
205-99-2	Benzo(b)fluoranthene	410		62	266
207-08-9	Benzo(k)fluoranthene	329		56.1	266
50-32-8	Benzo(a)pyrene	303		42.3	266
193-39-5	Indeno(1,2,3-cd)pyrene	145	J	51.1	266
53-70-3	Dibenzo(a,h)anthracene	40.3	U	40.3	266
191-24-2	Benzo(g,h,i)perylene	164	J	39.4	266
98-86-2	Acetophenone	98.4	U	98.4	266
95-94-3	1,2,4,5-Tetrachlorobenzene	46.2	U	46.2	266
86-74-8	Carbazole	79.3	J	53.1	266
105-60-2	Caprolactam	138	U	138	266
92-52-4	1,1'-Biphenyl	60	U	60	266
1912-24-9	Atrazine	77.7	U	77.7	266
100-52-7	Benzaldehyde	44.3	U	44.3	266

DRAFT

8270 QC Summary

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
128824MB

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392

Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 128824MB Lab File ID: 9300MB.D

Sample wt/vol: 20.34 Units: G Date Received: 05/03/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/03/12 Time: 1403

PercentSolids: 100 decanted : (_____) Dilution Factor: 1

Extraction: OTHER Station ID: _____ Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	65.9	U	65.9	265
108-95-2	Phenol	63.9	U	63.9	1310
95-57-8	2-Chlorophenol	67.8	U	67.8	265
108-60-1	2,2'-Oxybis(1-chloropropane)	216	U	216	265
95-48-7	2-Methylphenol	94.4	U	94.4	262
67-72-1	Hexachloroethane	49.2	U	49.2	265
621-64-7	N-Nitroso-di-n-propylamine	60	U	60	265
106-44-5	4-Methylphenol	58	U	58	265
98-95-3	Nitrobenzene	59	U	59	265
78-59-1	Isophorone	58	U	58	265
88-75-5	2-Nitrophenol	70.8	U	70.8	265
105-67-9	2,4-Dimethylphenol	56	U	56	262
111-91-1	Bis(2-chloroethoxy)methane	56	U	56	262
120-83-2	2,4-Dichlorophenol	73.7	U	73.7	262
91-20-3	Naphthalene	62.9	U	62.9	265
106-47-8	4-Chloroaniline	61.9	U	61.9	265
91-57-6	2-Methylnaphthalene	57	U	57	265
87-68-3	Hexachlorobutadiene	57	U	57	265
59-50-7	4-Chloro-3-methylphenol	55.1	U	55.1	265
77-47-4	Hexachlorocyclopentadiene	39.3	U	39.3	656
88-06-2	2,4,6-Trichlorophenol	66.9	U	66.9	262
95-95-4	2,4,5-Trichlorophenol	72.8	U	72.8	262
91-58-7	2-Chloronaphthalene	65.6	U	65.6	265
88-74-4	2-Nitroaniline	56	U	56	265
208-96-8	Acenaphthylene	54.1	U	54.1	265
131-11-3	Dimethylphthalate	58	U	58	265
606-20-2	2,6-Dinitrotoluene	49.2	U	49.2	265

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
128824MB

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 128824MB Lab File ID: 9300MB.D

Sample wt/vol: 20.34 Units: G Date Received: 05/03/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/03/12 Time: 1403

PercentSolids: 100 decanted : (_____) Dilution Factor: 1

Extraction: OTHER Station ID: _____ Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
83-32-9	Acenaphthene	48.2	U	48.2	265
99-09-2	3-Nitroaniline	78.7	U	78.7	262
51-28-5	2,4-Dinitrophenol	216	U	216	1320
132-64-9	Dibenzofuran	53.1	U	53.1	265
121-14-2	2,4-Dinitrotoluene	48.2	U	48.2	265
100-02-7	4-Nitrophenol	52.1	U	52.1	656
86-73-7	Fluorene	50.1	U	50.1	265
7005-72-3	4-Chlorophenyl-phenylether	50.1	U	50.1	265
84-66-2	Diethylphthalate	50.1	U	50.1	265
100-01-6	4-Nitroaniline	86.5	U	86.5	262
534-52-1	4,6-Dinitro-2-methylphenol	262	U	262	265
86-30-6	N-Nitrosodiphenylamine	61.9	U	61.9	262
101-55-3	4-Bromophenyl-phenylether	48.2	U	48.2	265
118-74-1	Hexachlorobenzene	52.1	U	52.1	262
87-86-5	Pentachlorophenol	131	U	131	265
85-01-8	Phenanthrene	55.1	U	55.1	265
120-12-7	Anthracene	59	U	59	265
84-74-2	Di-n-butylphthalate	43.3	U	43.3	265
206-44-0	Fluoranthene	47.2	U	47.2	265
129-00-0	Pyrene	90.5	U	90.5	265
85-68-7	Butylbenzylphthalate	61.9	U	61.9	265
91-94-1	3,3'-Dichlorobenzidine	58	U	58	265
56-55-3	Benzo(a)anthracene	56	U	56	265
218-01-9	Chrysene	33.4	U	33.4	262
117-81-7	Bis(2-ethylhexyl)phthalate	144	J	81.6	265
117-84-0	Di-n-octylphthalate	57	U	57	265
205-99-2	Benzo(b)fluoranthene	61.9	U	61.9	265

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
128824MB

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 128824MB Lab File ID: 9300MB.D

Sample wt/vol: 20.34 Units: G Date Received: 05/03/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/03/12 Time: 1403

PercentSolids: 100 decanted : (_____ Dilution Factor: 1

Extraction: OTHER Station ID: _____ Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
207-08-9	Benzo(k)fluoranthene	56	U	56	265
50-32-8	Benzo(a)pyrene	42.3	U	42.3	265
193-39-5	Indeno(1,2,3-cd)pyrene	51.1	U	51.1	265
53-70-3	Dibenzo(a,h)anthracene	40.3	U	40.3	265
191-24-2	Benzo(g,h,i)perylene	39.3	U	39.3	265
98-86-2	Acetophenone	98.3	U	98.3	265
95-94-3	1,2,4,5-Tetrachlorobenzene	46.2	U	46.2	265
86-74-8	Carbazole	53.1	U	53.1	265
105-60-2	Caprolactam	138	U	138	265
92-52-4	1,1'-Biphenyl	60	U	60	265
1912-24-9	Atrazine	77.7	U	77.7	265
100-52-7	Benzaldehyde	44.2	U	44.2	265

2A

SOIL SEMI-VOLATILE ORGANIC SURROGATE RECOVERY

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1
Lab Code : PEL Case No. SAS No: SDG NO.: 3505843
Column(1): HPMS-5 ID: 0.25 (mm)

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
128824MB	79.3	76.4	77.2	72.0	87.2	91.1	0
128825LCS	73.1	72.7	76.1	79.8	94.7	76.1	0
EPAFMC-SD-07	69.3	67.4	55.7	53.4	77.3	63.6	0
EPAFMC-SD-07MS	67.0	68.6	65.3	64.9	84.2	70.2	0
EPAFMC-SD-07SD	58.3	59.0	51.1	49.6	62.0	50.8	0
EPAFMC-SD-08	62.1	61.3	62.6	59.6	66.5	70.4	0
EPAFMC-SD-09	51.9	52.9	45.1	41.2	55.8	47.9	0
EPAFMC-SD-10	61.3	60.7	54.3	47.7	66.5	63.0	0
EPAFMC-SD-11	61.5	62.1	55.1	48.0	68.2	56.3	0
EPAFMC-SD-12	51.5	51.7	50.4	42.5	59.1	50.9	0
EPAFMC-SD-13	34.6	50.2	57.1	53.1	68.3	82.7	0
EPAFMC-SD-14	51.3	53.2	12.9 *	22.6 *	58.2	59.5	2
EPAFMC-SD-15	39.7	45.8	11.6 *	15.3 *	52.7	46.0	2
EPAFMC-SD-16	61.0	61.8	59.3	54.1	74.6	67.5	0

Control Limits

- S1 = 2-Fluorophenol 25 - 121
- S2 = Phenol-d5 24 - 113
- S3 = Nitrobenzene-d5 23 - 120
- S4 = 2-Fluorobiphenyl 30 - 115
- S5 = 2,4,6-Tribromophenol 19 - 122
- S6 = p-Terphenyl-d14 18 - 137

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out
Control limit source: (lab/method) METHOD

Form II

SEMI-VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1 128825LCS

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	LCS CONCENTRATION ug/Kg	LCS % REC #	LCS % RPD	QC LIMITS	
					RPD	REC.
Bis(2-chloroethyl)ether	1980	1550	78.3			58 - 124
Phenol	1980	1380	69.7			39 - 127
2-Chlorophenol	1980	1430	72.2			42 - 113
2,2'-Oxybis(1-chloropropane)	1980	1350	68.2			42 - 139
2-Methylphenol	1980	1330	67.2			55 - 112
Hexachloroethane	1980	1420	71.7			51 - 120
N-Nitroso-di-n-propylamine	1980	1840	92.9			58 - 121
4-Methylphenol	1980	1710	86.4			48 - 127
Nitrobenzene	1980	1480	74.7			56 - 114
Isophorone	1980	1870	94.4			75 - 135
2-Nitrophenol	1980	1460	73.7			50 - 110
2,4-Dimethylphenol	1980	1600	80.8			43 - 125
Bis(2-chloroethoxy)methane	1980	1550	78.3			67 - 117
2,4-Dichlorophenol	1980	1510	76.3			50 - 120
Naphthalene	1980	1520	76.8			54 - 123
4-Chloroaniline	1980	1430	72.2			15 - 110
2-Methylnaphthalene	1980	1520	76.8			63 - 118
Hexachlorobutadiene	1980	1630	82.3			64 - 114
4-Chloro-3-methylphenol	1980	1670	84.3			48 - 114
Hexachlorocyclopentadiene	1980	1060	53.5			33 - 113
2,4,6-Trichlorophenol	1980	1520	76.8			49 - 120
2,4,5-Trichlorophenol	1980	1800	90.9			69 - 110
2-Chloronaphthalene	1980	1550	78.3			67 - 120
2-Nitroaniline	1980	1900	96.0			52 - 133
Acenaphthylene	1980	1690	85.4			57 - 123
Dimethylphthalate	1980	1780	89.9			72 - 116
2,6-Dinitrotoluene	1980	1670	84.3			63 - 120
Acenaphthene	1980	1530	77.3			61 - 112
3-Nitroaniline	1980	1720	86.9			62 - 119
2,4-Dinitrophenol	3960	3150	79.5			15 - 150
Dibenzofuran	1980	1700	85.9			64 - 120
2,4-Dinitrotoluene	1980	1740	87.9			64 - 113

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

SEMI-VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1 128825LCS

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	LCS CONCENTRATION ug/Kg	LCS % REC #	LCS % RPD	QC LIMITS	
					RPD	REC.
4-Nitrophenol	1980	2000	101.0			10 - 162
Fluorene	1980	1710	86.4			57 - 118
4-Chlorophenyl-phenylether	1980	1730	87.4			69 - 120
Diethylphthalate	1980	1820	91.9			63 - 126
4-Nitroaniline	1980	1910	96.5			61 - 123
4,6-Dinitro-2-methylphenol	1980	1490	75.3			31 - 120
N-Nitrosodiphenylamine	1980	1650	83.3			72 - 122
4-Bromophenyl-phenylether	1980	1600	80.8			72 - 111
Hexachlorobenzene	1980	1520	76.8			66 - 110
Pentachlorophenol	1980	1930	97.5			25 - 138
Phenanthrene	1980	1660	83.8			61 - 118
Anthracene	1980	1680	84.8			65 - 118
Di-n-butylphthalate	1980	1740	87.9			72 - 122
Fluoranthene	1980	1780	89.9			66 - 119
Pyrene	1980	1590	80.3			62 - 117
Butylbenzylphthalate	1980	1700	85.9			69 - 127
3,3'-Dichlorobenzidine	3960	2350	59.3			20 - 110
Benzo(a)anthracene	1980	1680	84.8			66 - 120
Chrysene	1980	1580	79.8			64 - 113
Bis(2-ethylhexyl)phthalate	1980	3200	162.0*			68 - 126
Di-n-octylphthalate	1980	1930	97.5			69 - 131
Benzo(b)fluoranthene	1980	2060	104.0			61 - 114
Benzo(k)fluoranthene	1980	1790	90.4			61 - 121
Benzo(a)pyrene	1980	1800	90.9			66 - 111
Indeno(1,2,3-cd)pyrene	1980	1780	89.9			52 - 120
Dibenzo(a,h)anthracene	1980	1810	91.4			53 - 120
Benzo(g,h,i)perylene	1980	1750	88.4			55 - 122
Acetophenone	3960	3100	78.3			32 - 114
1,2,4,5-Tetrachlorobenzene	1980	1430	72.2			51 - 110
Carbazole	1980	1910	96.5			66 - 125
Caprolactam	1980	1620	81.8			10 - 150
1,1'-Biphenyl	1980	1450	73.2			10 - 150

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

SEMI-VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1 128825LCS

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	LCS CONCENTRATION ug/Kg	LCS % REC #	LCS % RPD	QC LIMITS	
					RPD	REC.
Atrazine	1980	1420	71.7			10 - 191
Benzaldehyde	1980	1110	56.1			10 - 158

Spike Recovery: 1 out of 66 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.
EPAFMC-SD-07MS

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek /

Lab Code : PEL Case No.: SAS No: SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC #	QC LIMITS REC.
Bis(2-chloroethyl)ether	2100	0	1600	73.8	30 - 126
Phenol	2100	0	1400	68.6	30 - 129
2-Chlorophenol	2100	0	1400	65.7	16 - 113
2,2'-Oxybis(1-chloropropane)	2100	0	1200	59.0	20 - 123
2-Methylphenol	2100	0	1400	67.1	27 - 117
Hexachloroethane	2100	0	1200	57.1	24 - 120
N-Nitroso-di-n-propylamine	2100	0	1800	83.8	22 - 128
4-Methylphenol	2100	88	1800	80.6	30 - 150
Nitrobenzene	2100	0	1300	62.9	14 - 129
Isophorone	2100	0	1800	87.6	35 - 144
2-Nitrophenol	2100	0	1200	58.6	14 - 113
2,4-Dimethylphenol	2100	0	1600	76.7	30 - 110
Bis(2-chloroethoxy)methane	2100	0	1500	72.4	31 - 126
2,4-Dichlorophenol	2100	0	1500	70.5	18 - 115
Naphthalene	2100	0	1500	72.4	29 - 119
4-Chloroaniline	2100	0	1600	74.8	30 - 143
2-Methylnaphthalene	2100	0	1400	69.0	33 - 120
Hexachlorobutadiene	2100	0	1500	70.0	32 - 120
4-Chloro-3-methylphenol	2100	0	1600	76.2	30 - 123
Hexachlorocyclopentadiene	2100	0	130	6.1 *	10 - 119
2,4,6-Trichlorophenol	2100	0	1400	66.2	14 - 118
2,4,5-Trichlorophenol	2100	0	1700	81.9	29 - 125
2-Chloronaphthalene	2100	0	1400	67.1	31 - 118
2-Nitroaniline	2100	0	1700	80.5	22 - 134
Acenaphthylene	2100	0	1500	72.9	26 - 123
Dimethylphthalate	2100	0	1700	79.5	33 - 127
2,6-Dinitrotoluene	2100	0	1500	69.5	26 - 123
Acenaphthene	2100	0	1400	69.0	30 - 135
3-Nitroaniline	2100	0	1700	79.0	20 - 125
2,4-Dinitrophenol	4200	0	0	0.0 *	15 - 150

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.
EPAFMC-SD-07MS

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek /

Lab Code : PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC #	QC LIMITS REC.
Dibenzofuran	2100	0	1600	74.8	31 - 123
2,4-Dinitrotoluene	2100	0	1500	71.0	17 - 127
4-Nitrophenol	2100	0	1700	81.4	30 - 135
Fluorene	2100	0	1600	73.8	25 - 120
4-Chlorophenyl-phenylether	2100	0	1500	72.9	10 - 119
Diethylphthalate	2100	0	1700	80.0	30 - 127
4-Nitroaniline	2100	0	1900	90.0	10 - 150
4,6-Dinitro-2-methylphenol	2100	0	560	26.7*	40 - 130
N-Nitrosodiphenylamine	2100	0	1500	71.0	31 - 137
4-Bromophenyl-phenylether	2100	0	1400	68.1	31 - 129
Hexachlorobenzene	2100	0	1300	63.8	30 - 118
Pentachlorophenol	2100	0	1600	74.8	30 - 113
Phenanthrene	2100	230	1600	64.8	28 - 121
Anthracene	2100	76	1500	68.8	31 - 121
Di-n-butylphthalate	2100	0	1600	73.8	34 - 132
Fluoranthene	2100	780	1800	50.2	29 - 125
Pyrene	2100	670	1800	52.5	31 - 125
Butylbenzylphthalate	2100	0	1600	77.1	29 - 149
3,3'-Dichlorobenzidine	4200	0	2400	57.6	20 - 110
Benzo(a)anthracene	2100	450	1700	58.1	30 - 117
Chrysene	2100	490	1700	55.8	32 - 115
Bis(2-ethylhexyl)phthalate	2100	0	1700	81.4	32 - 138
Di-n-octylphthalate	2100	0	1700	81.4	30 - 150
Benzo(b)fluoranthene	2100	530	2000	68.8	23 - 128
Benzo(k)fluoranthene	2100	420	1600	57.1	31 - 120
Benzo(a)pyrene	2100	400	1800	66.2	31 - 121
Indeno(1,2,3-cd)pyrene	2100	200	1600	65.5	28 - 118
Dibenzo(a,h)anthracene	2100	72	1500	69.4	28 - 118
Benzo(g,h,i)perylene	2100	230	1500	59.9	28 - 120
Acetophenone	4200	0	3000	71.0	27 - 112

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / EPA Sample No. EPAFMC-SD-07MS
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC #	QC LIMITS REC.
1,2,4,5-Tetrachlorobenzene	2100	0	1400	65.2	47 - 110
Carbazole	2100	0	1700	79.5	34 - 133
Caprolactam	2100	0	1800	86.7	10 - 150
1,1'-Biphenyl	2100	0	1300	61.0	30 - 152
Atrazine	2100	0	1300	63.3	10 - 149
Benzaldehyde	2100	0	1200	57.1	10 - 140

Spike Recovery: 3 out of 66 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Cre

EPAFMC-SD-07SD

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	MSD CONCENTRATION ug/Kg	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
Bis(2-chloroethyl)ether	2100	1400	65.4	11.6	30	30 - 126
Phenol	2100	1300	60.2	12.5	30	30 - 129
2-Chlorophenol	2100	1200	57.8	12.3	30	16 - 113
2,2'-Oxybis(1-chloropropane)	2100	1000	48.8	18.5	30	20 - 123
2-Methylphenol	2100	1200	55.9	17.8	30	27 - 117
Hexachloroethane	2100	930	44.3	24.9	30	24 - 120
N-Nitroso-di-n-propylamine	2100	1400	66.4	22.8	30	22 - 128
4-Methylphenol	2100	1500	68.8	14.5	30	30 - 150
Nitrobenzene	2100	1100	53.6	15.5	30	14 - 129
Isophorone	2100	1500	69.2	23.0	30	35 - 144
2-Nitrophenol	2100	980	46.4	22.6	30	14 - 113
2,4-Dimethylphenol	2100	1300	63.0	19.0	30	30 - 110
Bis(2-chloroethoxy)methane	2100	1200	59.2	19.5	30	31 - 126
2,4-Dichlorophenol	2100	1200	58.8	17.6	30	18 - 115
Naphthalene	2100	1200	59.2	19.5	30	29 - 119
4-Chloroaniline	2100	1200	55.9	28.4	30	30 - 143
2-Methylnaphthalene	2100	1200	55.9	20.5	30	33 - 120
Hexachlorobutadiene	2100	1100	53.6	26.2	30	32 - 120
4-Chloro-3-methylphenol	2100	1400	64.5	16.2	30	30 - 123
Hexachlorocyclopentadiene	2100	0	0.0*	200.0*	30	10 - 119
2,4,6-Trichlorophenol	2100	1200	56.4	15.5	30	14 - 118
2,4,5-Trichlorophenol	2100	1400	65.9	21.2	30	29 - 125
2-Chloronaphthalene	2100	1100	53.6	22.0	30	31 - 118
2-Nitroaniline	2100	1400	66.4	18.8	30	22 - 134
Acenaphthylene	2100	1200	56.9	24.2	30	26 - 123
Dimethylphthalate	2100	1300	63.0	22.7	30	33 - 127
2,6-Dinitrotoluene	2100	1200	54.5	23.8	30	26 - 123
Acenaphthene	2100	1100	54.0	23.9	30	30 - 135
3-Nitroaniline	2100	1300	61.1	25.1	30	20 - 125
2,4-Dinitrophenol	4200	0	0.0*		30	15 - 150

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Cre

EPAFMC-SD-07SD

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	MSD CONCENTRATION ug/Kg	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
Dibenzofuran	2100	1200	56.9	26.7	30	31 - 123
2,4-Dinitrotoluene	2100	1200	54.5	25.8	30	17 - 127
4-Nitrophenol	2100	1400	65.9	20.6	30	30 - 135
Fluorene	2100	1200	55.9	27.1	30	25 - 120
4-Chlorophenyl-phenylether	2100	1100	54.0	29.2	30	10 - 119
Diethylphthalate	2100	1300	63.0	23.3	30	30 - 127
4-Nitroaniline	2100	1500	73.0	20.4	30	10 - 150
4,6-Dinitro-2-methylphenol	2100	670	31.8 *	17.9	30	40 - 130
N-Nitrosodiphenylamine	2100	1200	55.9	23.2	30	31 - 137
4-Bromophenyl-phenylether	2100	1100	51.7	27.0	30	31 - 129
Hexachlorobenzene	2100	1000	49.3	25.2	30	30 - 118
Pentachlorophenol	2100	1200	55.5	29.2	30	30 - 113
Phenanthrene	2100	1300	48.8	23.2	30	28 - 121
Anthracene	2100	1200	53.8	22.7	30	31 - 121
Di-n-butylphthalate	2100	1200	55.5	27.9	30	34 - 132
Fluoranthene	2100	1600	40.0	12.1	30	29 - 125
Pyrene	2100	1600	43.7	10.7	30	31 - 125
Butylbenzylphthalate	2100	1200	58.3	27.4	30	29 - 149
3,3'-Dichlorobenzidine	4200	1900	44.3	25.6	30	20 - 110
Benzo(a)anthracene	2100	1400	47.4	14.1	30	30 - 117
Chrysene	2100	1400	43.2	17.0	30	32 - 115
Bis(2-ethylhexyl)phthalate	2100	1300	63.0	25.0	30	32 - 138
Di-n-octylphthalate	2100	1300	60.7	28.8	30	30 - 150
Benzo(b)fluoranthene	2100	1600	52.8	18.3	30	23 - 128
Benzo(k)fluoranthene	2100	1300	39.8	25.0	30	31 - 120
Benzo(a)pyrene	2100	1500	51.7	18.3	30	31 - 121
Indeno(1,2,3-cd)pyrene	2100	1200	49.6	23.3	30	28 - 118
Dibenzo(a,h)anthracene	2100	1200	53.0	25.0	30	28 - 118
Benzo(g,h,i)perylene	2100	1200	46.8	19.9	30	28 - 120
Acetophenone	4200	2600	60.7	15.2	30	27 - 112

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Cre

EPAFMC-SD-07SD

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	MSD CONCENTRATION ug/Kg	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
1,2,4,5-Tetrachlorobenzene	2100	1100	51.7	22.8	30	47 - 110
Carbazole	2100	1300	63.0	22.7	30	34 - 133
Caprolactam	2100	1700	79.1	8.6	30	10 - 150
1,1'-Biphenyl	2100	1100	51.7	16.0	30	30 - 152
Atrazine	2100	1200	57.8	8.6	30	10 - 149
Benzaldehyde	2100	1200	55.5	2.5	30	10 - 140

RPD: 1 out of 66 outside limits

Spike Recovery: 3 out of 66 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

DRAFT

8082 PCB Organics

**CASE NARRATIVE
POLYCHLORINATED BIPHENYLS (PCB) SEMIVOLATILE ORGANIC**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

EPA SW846 8082 for Aroclor analysis

IV. PREPARATION

Soil samples were prepared by SW846 EPA 3550 for 8082 semi-volatile analysis.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

Please note CCV1074115 was below criteria at 20.3% for one peak used to quantify Aroclor-1016 on column STX-CLP1, however the total for this Aroclor passed criteria at 9.8%, meeting QC requirements.

Please note CCV1074823 was below criteria at 25.1% for one peak used to quantify Aroclor-1016 and 20.6% for one peak used to quantify Aroclor-1260 on column STX-CLP1, however the total for these Aroclors passed criteria, meeting QC requirements.

B. Blanks:

All acceptance criteria were met.

C. Surrogates:

All acceptance criteria were met.

D. Spikes:

PCB 1016 and PCB 1260 were used as the spiking solution for all QC spikes.

1. Laboratory Control Spikes (LCS)

All acceptance criteria were met

2. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

**CASE NARRATIVE
POLYCHLORINATED BIPHENYLS (PCB) SEMIVOLATILE ORGANIC**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

No spikes requested by client.

E. Internal Standards:

This method does not require the use of internal standards.

F. Samples:

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.



SIGNED:

DATE: 05/08/2012

PCB ORGANIC CROSS REFERENCE TABLE

DRAFT

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No. SAS No: SDG No.: 3505843
Method: 8082

EPA Sample No	Lab Sample ID
<u>EPAFMC-SD-08</u>	<u>350584304</u>
<u>EPAFMC-SD-12</u>	<u>350584308</u>
<u>EPAFMC-SD-16</u>	<u>350584312</u>

DRAFT

8082 Sample Data

PCB ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-08

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584304 Lab File ID: 843-4R.D

Sample wt/vol: 33.33 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 10 Date Extracted: 04/27/12

Level:(low/med) LOW Date Analyzed: 04/30/12 Time: 1116

PercentSolids: 97.1 decanted : _____ Dilution Factor: 1

Extraction: SONC Station ID: EPAFMC07 Method: 8082

GPC Cleanup : (Y/N) N pH: _____

Column(1): STX-CLP1 ID: 0.32 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	13	U	13	30
11096-82-5	Aroclor-1260	21	J	7.1	30
11104-28-2	Aroclor-1221	12	U	12	30
11141-16-5	Aroclor-1232	20	U	20	30
53469-21-9	Aroclor-1242	11	U	11	30
12672-29-6	Aroclor-1248	11	U	11	30
11097-69-1	Aroclor-1254	9.7	U	9.7	30

PCB ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-12

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. SAS No: SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584308 Lab File ID: 843-8R.D

Sample wt/vol: 33.5 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 10 Date Extracted: 04/27/12

Level:(low/med) LOW Date Analyzed: 04/30/12 Time: 1131

PercentSolids: 84.4 decanted : Dilution Factor: 1

Extraction: SONC Station ID: EPAFMC11 Method: 8082

GPC Cleanup : (Y/N) N pH:

Column(1): STX-CLP1 ID: 0.32 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	15	U	15	35
11096-82-5	Aroclor-1260	8.2	U	8.2	35
11104-28-2	Aroclor-1221	14	U	14	35
11141-16-5	Aroclor-1232	23	U	23	35
53469-21-9	Aroclor-1242	13	U	13	35
12672-29-6	Aroclor-1248	13	U	13	35
11097-69-1	Aroclor-1254	11	U	11	35

PCB ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-16

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584312 Lab File ID: 843-12.D

Sample wt/vol: 33.03 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 10 Date Extracted: 04/27/12

Level:(low/med) LOW Date Analyzed: 04/27/12 Time: 2251

PercentSolids: 80.1 decanted : _____ Dilution Factor: 1

Extraction: SONC Station ID: EPAFMC11 Method: 8082

GPC Cleanup : (Y/N) N pH: _____

Column(1): STX-CLP1 ID: 0.32 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	16	U	16	37
11096-82-5	Aroclor-1260	8.7	U	8.7	37
11104-28-2	Aroclor-1221	15	U	15	37
11141-16-5	Aroclor-1232	25	U	25	37
53469-21-9	Aroclor-1242	14	U	14	37
12672-29-6	Aroclor-1248	14	U	14	37
11097-69-1	Aroclor-1254	12	U	12	37

DRAFT

8082 QC Summary

PCB ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
127811MB

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 127811MB Lab File ID: 9229MB.D

Sample wt/vol: 33.15 Units: G Date Received: 04/27/12

Concentrated Extract Volume: 10 Date Extracted: 04/27/12

Level:(low/med) LOW Date Analyzed: 04/27/12 Time: 1919

PercentSolids: 100 decanted : (_____ Dilution Factor: 1

Extraction: SONC Station ID: _____ Method: 8082

GPC Cleanup : (Y/N) N pH: _____

Column(1): STX-CLP1 ID: 0.32 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	13	U	13	30
11096-82-5	Aroclor-1260	7	U	7	30
11104-28-2	Aroclor-1221	12	U	12	30
11141-16-5	Aroclor-1232	20	U	20	30
53469-21-9	Aroclor-1242	11	U	11	30
12672-29-6	Aroclor-1248	11	U	11	30
11097-69-1	Aroclor-1254	9.4	U	9.4	30

2A

SOIL PCB ORGANIC SURROGATE RECOVERY

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1

Lab Code : PEL Case No. SAS No: SDG NO.: 3505843

Column(1): STX-CLP1 ID: 0.32 (mm)

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
127811MB	83.8						0
127812LCS	81.7						0
EPAFMC-SD-08	104.0						0
EPAFMC-SD-12	79.9						0
EPAFMC-SD-16	67.2						0

Control Limits

S1 = Decachlorobiphenyl

33 - 140

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

Control limit source: (lab/method) METHOD

Form II

090512.1954

PCB ORGANIC LAB CONTROL SAMPLE RECOVERY

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1 EPA Sample No. 127812LCS
 Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	LCS CONCENTRATION ug/Kg	LCS % REC #	LCS % RPD	QC LIMITS	
					RPD	REC.
Aroclor-1016	295	207	70.2			43 - 137
Aroclor-1260	295	203	68.8			48 - 154

Spike Recovery: 0 out of 2 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

DRAFT

Inorganics

Inorganic Data Qualifiers

C (Concentration) Qualifier - Entries and their meanings are:

- J** The reported value obtained was less than the RL but greater than or equal to the MDL.
- E** The reported value obtained was over calibration or linear range.
- U** The reported value obtained was less than the MDL or was not detected.

Q Qualifier - Entries and their meanings are:

- U** The reported value is estimated because of interference. An explanatory comment must be included under "Comments" on the Cover Page if the problem applies to all samples in this data package or on the individual FORM 1 if it is an isolated problem.
- M** Duplicate injection precision was not met (two analyses of the same sample did not agree).
- N** Spiked sample recovery not within control limits.
- E** Serial Dilution percent difference not within control limits.
- S** The reported value was determined by the Method of Standard Additions (MSA).
- W** Post-digestion spike for Furnace AA analysis is out of control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
- *** Duplicate analysis not within control limits.
- +** Correlation coefficient for the MSA is less than 0.995.
- X** The data is flagged as rejected by analyst utilizing analytical judgement.

Entering "S", "W", or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field.

M (Method) Qualifier - Enter one of the following:

- P** ICP
- A** Flame AA
- F** Furnace AA
- CV** Manual Cold Vapor AA
- TC** Total Organic Carbon
- AS** Semi-Automated Spectrophotometric
- CA** Midi-Distillation Spectrophotometric
- T** Titrimetric
- C** Manual Spectrophotometric
- GR** Gravimetric
- NR** Analyte was not required by your lab

Inorganic Sample ID Qualifiers

The qualifiers that may be appended to the lab sample ID and/or the client sample ID for inorganic analysis are defined below:

- DL** Diluted reanalysis. Indicates that the results of the original analysis of the sample contained compounds that exceeded the calculation range. The sample was diluted and reanalyzed. May be followed by a digit to indicate multiple dilutions of the sample. The results of more than one diluted reanalysis are reported.
- R** Reanalysis. The extract was reanalyzed without re-extraction. The "R" is not used if the sample was also re-extracted. May be followed by a digit to indicate multiple reanalysis of the sample at the same dilution.
- RE** Re-extracted. The extract was reanalyzed with re-extraction. May be followed by a digit to indicate multiple re-extraction of the same sample at the same dilution.
- MS** Matrix spike (may be followed by a digit to indicate multiple matrix within a sample set).
- SD** Matrix spike duplicate (may be followed by a digit to indicate multiple matrix spike duplicate within a sample set).
- A** Post Digestion Spike.
- L** Serial Dilution.

DRAFT

Metals Data Package

**CASE NARRATIVE
MERCURY**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

Analyses were performed according to the Spectrum Analytical Inc. Standard Operating Procedures and EPA Method 7470A.

IV. PREPARATION

Water samples were prepared according to the Spectrum Analytical Inc. Laboratory's Standard Operating Procedures and EPA Method 7470A.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

1. Calibration Blanks:

All acceptance criteria were met. No action required. The following ICB/CCB(s) had element concentrations below the RL:
CCB1073879 was analyzed on 04/26/12 15:57. The following analyte(s) were detected below RL: Mercury at -0.0383 ug/L. The hit in the blank is below the RL, therefore, no corrective action was taken.

2. Method Blanks:

All acceptance criteria were met.

C. Spikes:

1. Laboratory Control Spikes (LCS):

An LCS/LCSD set was analyzed.
All percent recovery and relative percent difference (RPD) criteria were met.

2. Post Digestion Spike:

**CASE NARRATIVE
MERCURY**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

All acceptance criteria were met.

3. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD):

No spikes requested by client.

D. Duplicate:

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)


E. Serial Dilution:

All acceptance criteria were met.

F. Samples:

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature: 
Name: Troy L. Roberts Title: Inorg. Manager

SIGNED:

DATE: 05/09/2012

**CASE NARRATIVE
MERCURY**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

Samples were analyzed according to the Spectrum Analytical Inc. Standard Operating Procedures and EPA Method 7471A.

IV. PREPARATION

Soil samples were prepared according to Spectrum Analytical Inc. Laboratory's Standard Operating Procedures and EPA Method 7471A.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

1. Calibration Blanks:

All acceptance criteria were met.

2. Method Blanks:

All acceptance criteria were met.

C. Spikes:

1. Laboratory Control Spikes (LCS):

An LCS/LCSD set was analyzed.
All percent recovery and relative percent difference (RPD) criteria were met.

2. Post Digestion Spike:

All acceptance criteria were met.

3. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD):

**CASE NARRATIVE
MERCURY**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

A client requested MS/SD set was analyzed.
All percent recovery and relative percent difference (RPD) criteria were met.

D. Duplicate:

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)

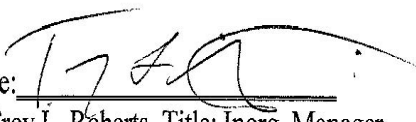
E. Serial Dilution:

All acceptance criteria were met.

F. Samples:

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature: 
Name: Troy L. Roberts Title: Inorg. Manager

SIGNED:

DATE: 05/09/2012

**CASE NARRATIVE
THALLIUM**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

Analyses were performed according to the Spectrum Analytical Inc. Standard Operating Procedures and EPA Method 7841.

IV. PREPARATION

Water samples were prepared according to PEL Laboratory's Standard Operating Procedures and EPA Method 3020.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

1. Calibration Blanks:

All acceptance criteria were met.

2. Method Blanks:

All acceptance criteria were met.

C. Spikes:

1. Laboratory Control Spikes (LCS):

An LCS/LCSD set was analyzed.
All percent recovery and relative percent difference (RPD) criteria were met.

2. Post Digestion Spike:

All acceptance criteria were met.

**CASE NARRATIVE
THALLIUM**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

3. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD):

No spikes requested by client.

D. Duplicate:

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)

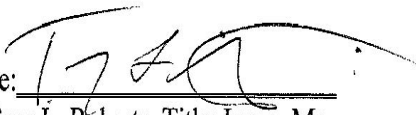
E. Serial Dilution:

All acceptance criteria were met.

F. Samples:

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature: 
Name: Troy L. Roberts Title: Inorg. Manager

SIGNED:

DATE: 05/09/2012

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Sit
Lab Code: PEL Case No.: _____ SDG No.: 3505843
SOW No.: _____

EPA Sample No	Lab Sample ID
<u>EPAFMC-SD-07</u>	<u>350584301</u>
<u>EPAFMC-SD-08</u>	<u>350584304</u>
<u>EPAFMC-SD-09</u>	<u>350584305</u>
<u>EPAFMC-SD-10</u>	<u>350584306</u>
<u>EPAFMC-SD-11</u>	<u>350584307</u>
<u>EPAFMC-SD-12</u>	<u>350584308</u>
<u>EPAFMC-SD-13</u>	<u>350584309</u>
<u>EPAFMC-SD-14</u>	<u>350584310</u>
<u>EPAFMC-SD-15</u>	<u>350584311</u>
<u>EPAFMC-SD-16</u>	<u>350584312</u>
<u>EPAFMC-SW-01</u>	<u>350584313</u>
<u>EPAFMC-SW-03</u>	<u>350584314</u>

Were ICP interelement corrections applied? Yes/No Yes
Were ICP background corrections applied? Yes/No Yes
If yes - were raw data generated before application of background corrections? Yes/No No

Comments:

DRAFT

Metals Inorganic Sample Data

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-07

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: SAS No: SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584301

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 75.5 Station ID: EPAFMC06

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	5010		N	P	1.68	8.82
7440-36-0	Antimony	0.66	J		P	0.212	0.882
7440-38-2	Arsenic	18.1			P	0.441	0.882
7440-39-3	Barium	37.2			P	0.141	0.441
7440-41-7	Beryllium	0.399	J		P	0.141	0.441
7440-43-9	Cadmium	8.64		N	P	0.0441	0.441
7440-70-2	Calcium	15900		*N	P	2.91	8.82
7440-47-3	Chromium	63.3		*N	P	0.141	0.441
7440-48-4	Cobalt	6.5			P	0.0441	0.441
7440-50-8	Copper	9.28			P	0.141	0.441
7439-89-6	Iron	33200		*	P	0.529	4.41
7439-92-1	Lead	21.7			P	0.3	0.705
7439-95-4	Magnesium	5340		*N	P	2.56	8.82
7439-96-5	Manganese	396		*	P	0.141	0.441
7439-97-6	Mercury	0.0156	J		CV	0.0046	0.0249
7440-02-0	Nickel	9.53			P	0.141	0.441
7440-09-7	Potassium	298		E	P	4.41	44.1
7782-49-2	Selenium	0.353	U	*N	P	0.353	1.76
7440-22-4	Silver	0.141	U		P	0.141	0.441
7440-23-5	Sodium	67.4			P	8.82	26.4
7440-28-0	Thallium	0.531	J		P	0.3	0.882

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-07

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584301

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 75.5 Station ID: EPAFMC06

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7440-62-2	Vanadium	58.8		N	P	0.141	0.441
7440-66-6	Zinc	142		N	P	0.291	0.882

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-08

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584304

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 97.1 Station ID: EPAFMC07

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	5600			P	1.56	8.2
7440-36-0	Antimony	0.204	J		P	0.197	0.82
7440-38-2	Arsenic	16.1			P	0.41	0.82
7440-39-3	Barium	57.1			P	0.131	0.41
7440-41-7	Beryllium	0.577			P	0.131	0.41
7440-43-9	Cadmium	0.041	U		P	0.041	0.41
7440-70-2	Calcium	17400			P	2.7	8.2
7440-47-3	Chromium	68.2			P	0.131	0.41
7440-48-4	Cobalt	8.45			P	0.041	0.41
7440-50-8	Copper	19.3			P	0.131	0.41
7439-89-6	Iron	37000			P	0.492	4.1
7439-92-1	Lead	20.3			P	0.279	0.656
7439-95-4	Magnesium	7250			P	2.38	8.2
7439-96-5	Manganese	595			P	0.131	0.41
7439-97-6	Mercury	0.0182	J		CV	0.00361	0.0195
7440-02-0	Nickel	10.1			P	0.131	0.41
7440-09-7	Potassium	334			P	4.1	41
7782-49-2	Selenium	0.328	U		P	0.328	1.64
7440-22-4	Silver	0.131	U		P	0.131	0.41
7440-23-5	Sodium	74.2			P	8.2	24.6
7440-28-0	Thallium	0.707	J		P	0.279	0.82

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-08

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584304

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 97.1 Station ID: EPAFMC07

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7440-62-2	Vanadium	44.6			P	0.131	0.41
7440-66-6	Zinc	140			P	0.27	0.82

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-09

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: SAS No: SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584305

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 77.7 Station ID: EPAFMC08

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	5060			P	1.57	8.25
7440-36-0	Antimony	0.636	J		P	0.198	0.825
7440-38-2	Arsenic	23.8			P	0.412	0.825
7440-39-3	Barium	50.3			P	0.132	0.412
7440-41-7	Beryllium	0.437			P	0.132	0.412
7440-43-9	Cadmium	0.0412	U		P	0.0412	0.412
7440-70-2	Calcium	17400			P	2.72	8.25
7440-47-3	Chromium	58.8			P	0.132	0.412
7440-48-4	Cobalt	8.27			P	0.0412	0.412
7440-50-8	Copper	29			P	0.132	0.412
7439-89-6	Iron	41300			P	0.495	4.12
7439-92-1	Lead	22.2			P	0.28	0.66
7439-95-4	Magnesium	5090			P	2.39	8.25
7439-96-5	Manganese	483			P	0.132	0.412
7439-97-6	Mercury	0.0457			CV	0.00278	0.015
7440-02-0	Nickel	8.52			P	0.132	0.412
7440-09-7	Potassium	262			P	4.12	41.2
7782-49-2	Selenium	0.33	U		P	0.33	1.65
7440-22-4	Silver	0.132	U		P	0.132	0.412
7440-23-5	Sodium	140			P	8.25	24.8
7440-28-0	Thallium	0.525	J		P	0.28	0.825

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-09

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584305

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 77.7 Station ID: EPAFMC08

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7440-62-2	Vanadium	55.3			P	0.132	0.412
7440-66-6	Zinc	117			P	0.272	0.825

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-10

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584306

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 79.7 Station ID: EPAFMC09

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	8300			P	1.51	7.95
7440-36-0	Antimony	1.24			P	0.191	0.795
7440-38-2	Arsenic	26.7			P	0.398	0.795
7440-39-3	Barium	102			P	0.127	0.398
7440-41-7	Beryllium	1.25			P	0.127	0.398
7440-43-9	Cadmium	0.0398	U		P	0.0398	0.398
7440-70-2	Calcium	24400			P	2.62	7.95
7440-47-3	Chromium	106			P	0.127	0.398
7440-48-4	Cobalt	10.8			P	0.0398	0.398
7440-50-8	Copper	11.1			P	0.127	0.398
7439-89-6	Iron	49300			P	0.477	3.98
7439-92-1	Lead	22.3			P	0.27	0.636
7439-95-4	Magnesium	6610			P	2.3	7.95
7439-96-5	Manganese	1500			P	0.127	0.398
7439-97-6	Mercury	0.00858	J		CV	0.00239	0.0129
7440-02-0	Nickel	9.96			P	0.127	0.398
7440-09-7	Potassium	658			P	3.98	39.8
7782-49-2	Selenium	0.318	U		P	0.318	1.59
7440-22-4	Silver	0.127	U		P	0.127	0.398
7440-23-5	Sodium	186			P	7.95	23.8
7440-28-0	Thallium	0.686	J		P	0.27	0.795

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-10

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584306

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 79.7 Station ID: EPAFMC09

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7440-62-2	Vanadium	86.3			P	0.127	0.398
7440-66-6	Zinc	231			P	0.262	0.795

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-11

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584307

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 78.4 Station ID: EPAFMC10

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	4910			P	1.86	9.81
7440-36-0	Antimony	0.345	J		P	0.235	0.981
7440-38-2	Arsenic	13.2			P	0.49	0.981
7440-39-3	Barium	45.5			P	0.157	0.49
7440-41-7	Beryllium	0.577			P	0.157	0.49
7440-43-9	Cadmium	0.049	U		P	0.049	0.49
7440-70-2	Calcium	21400			P	3.24	9.81
7440-47-3	Chromium	47.6			P	0.157	0.49
7440-48-4	Cobalt	6.73			P	0.049	0.49
7440-50-8	Copper	6.49			P	0.157	0.49
7439-89-6	Iron	28000			P	0.589	4.9
7439-92-1	Lead	14.2			P	0.334	0.785
7439-95-4	Magnesium	6810			P	2.84	9.81
7439-96-5	Manganese	553			P	0.157	0.49
7439-97-6	Mercury	0.021			CV	0.00335	0.0181
7440-02-0	Nickel	7.28			P	0.157	0.49
7440-09-7	Potassium	343			P	4.9	49
7782-49-2	Selenium	0.392	U		P	0.392	1.96
7440-22-4	Silver	0.157	U		P	0.157	0.49
7440-23-5	Sodium	95.8			P	9.81	29.4
7440-28-0	Thallium	0.334	U		P	0.334	0.981

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-11

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139
Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
Matrix: SOIL Lab Sample ID: 350584307
Level:(low/med) LOW Date Received: 4/25/2012
PercentSolids: 78.4 Station ID: EPAFMC10

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7440-62-2	Vanadium	44.1			P	0.157	0.49
7440-66-6	Zinc	100			P	0.324	0.981

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-12

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: SAS No: SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584308

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 84.4 Station ID: EPAFMC11

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	4670			P	1.78	9.34
7440-36-0	Antimony	1.26			P	0.224	0.934
7440-38-2	Arsenic	18			P	0.467	0.934
7440-39-3	Barium	54.6			P	0.15	0.467
7440-41-7	Beryllium	0.486			P	0.15	0.467
7440-43-9	Cadmium	0.0467	U		P	0.0467	0.467
7440-70-2	Calcium	18600			P	3.08	9.34
7440-47-3	Chromium	61.3			P	0.15	0.467
7440-48-4	Cobalt	13			P	0.0467	0.467
7440-50-8	Copper	644			P	0.15	0.467
7439-89-6	Iron	31500			P	0.561	4.67
7439-92-1	Lead	30.4			P	0.318	0.748
7439-95-4	Magnesium	6980			P	2.71	9.34
7439-96-5	Manganese	843			P	0.15	0.467
7439-97-6	Mercury	0.0256			CV	0.00375	0.0203
7440-02-0	Nickel	18.3			P	0.15	0.467
7440-09-7	Potassium	272			P	4.67	46.7
7782-49-2	Selenium	0.374	U		P	0.374	1.87
7440-22-4	Silver	0.328	J		P	0.15	0.467
7440-23-5	Sodium	80.1			P	9.34	28
7440-28-0	Thallium	0.318	U		P	0.318	0.934

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-12

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584308

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 84.4 Station ID: EPAFMC11

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7440-62-2	Vanadium	45			P	0.15	0.467
7440-66-6	Zinc	144			P	0.308	0.934

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-13

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584309

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 78 Station ID: EPAFMC12

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	5520			P	1.98	10.4
7440-36-0	Antimony	0.735	J		P	0.25	1.04
7440-38-2	Arsenic	15.2			P	0.52	1.04
7440-39-3	Barium	49.1			P	0.166	0.52
7440-41-7	Beryllium	0.44	J		P	0.166	0.52
7440-43-9	Cadmium	0.052	U		P	0.052	0.52
7440-70-2	Calcium	19200			P	3.43	10.4
7440-47-3	Chromium	50.2			P	0.166	0.52
7440-48-4	Cobalt	10.3			P	0.052	0.52
7440-50-8	Copper	43.1			P	0.166	0.52
7439-89-6	Iron	35700			P	0.624	5.2
7439-92-1	Lead	36.1			P	0.354	0.832
7439-95-4	Magnesium	7370			P	3.02	10.4
7439-96-5	Manganese	810			P	0.166	0.52
7439-97-6	Mercury	0.167			CV	0.00256	0.0138
7440-02-0	Nickel	10.7			P	0.166	0.52
7440-09-7	Potassium	312			P	5.2	52
7782-49-2	Selenium	0.416	U		P	0.416	2.08
7440-22-4	Silver	0.166	U		P	0.166	0.52
7440-23-5	Sodium	73.6			P	10.4	31.2
7440-28-0	Thallium	0.656	J		P	0.354	1.04

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-13

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584309

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 78 Station ID: EPAFMC12

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7440-62-2	Vanadium	52			P	0.166	0.52
7440-66-6	Zinc	168			P	0.343	1.04

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-14

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584310

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 80.6 Station ID: EPAFMC13

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	3570			P	1.34	7.04
7440-36-0	Antimony	0.562	J		P	0.169	0.704
7440-38-2	Arsenic	13.9			P	0.352	0.704
7440-39-3	Barium	26.8			P	0.113	0.352
7440-41-7	Beryllium	0.437			P	0.113	0.352
7440-43-9	Cadmium	0.0352	U		P	0.0352	0.352
7440-70-2	Calcium	12400			P	2.32	7.04
7440-47-3	Chromium	45			P	0.113	0.352
7440-48-4	Cobalt	6.51			P	0.0352	0.352
7440-50-8	Copper	14.3			P	0.113	0.352
7439-89-6	Iron	30200			P	0.422	3.52
7439-92-1	Lead	15.2			P	0.239	0.563
7439-95-4	Magnesium	4680			P	2.04	7.04
7439-96-5	Manganese	718			P	0.113	0.352
7439-97-6	Mercury	0.0186			CV	0.00345	0.0186
7440-02-0	Nickel	5.7			P	0.113	0.352
7440-09-7	Potassium	126			P	3.52	35.2
7782-49-2	Selenium	0.282	U		P	0.282	1.41
7440-22-4	Silver	0.113	U		P	0.113	0.352
7440-23-5	Sodium	45.8			P	7.04	21.1
7440-28-0	Thallium	0.326	J		P	0.239	0.704

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-14

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584310

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 80.6 Station ID: EPAFMC13

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7440-62-2	Vanadium	44			P	0.113	0.352
7440-66-6	Zinc	110			P	0.232	0.704

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-15

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584311

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 82.2 Station ID: EPAFMC14

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	5890			P	1.47	7.74
7440-36-0	Antimony	0.55	J		P	0.186	0.774
7440-38-2	Arsenic	14.4			P	0.387	0.774
7440-39-3	Barium	67.7			P	0.124	0.387
7440-41-7	Beryllium	0.587			P	0.124	0.387
7440-43-9	Cadmium	1.46			P	0.0387	0.387
7440-70-2	Calcium	24600			P	2.55	7.74
7440-47-3	Chromium	63.2			P	0.124	0.387
7440-48-4	Cobalt	7.69			P	0.0387	0.387
7440-50-8	Copper	11.9			P	0.124	0.387
7439-89-6	Iron	32800			P	0.464	3.87
7439-92-1	Lead	18.4			P	0.263	0.619
7439-95-4	Magnesium	9660			P	2.24	7.74
7439-96-5	Manganese	788			P	0.124	0.387
7439-97-6	Mercury	0.0165			CV	0.00264	0.0143
7440-02-0	Nickel	16.6			P	0.124	0.387
7440-09-7	Potassium	283			P	3.87	38.7
7782-49-2	Selenium	0.31	U		P	0.31	1.55
7440-22-4	Silver	0.124	U		P	0.124	0.387
7440-23-5	Sodium	227			P	7.74	23.2
7440-28-0	Thallium	0.271	J		P	0.263	0.774

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-15

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584311

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 82.2 Station ID: EPAFMC14

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7440-62-2	Vanadium	50.5			P	0.124	0.387
7440-66-6	Zinc	146			P	0.255	0.774

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-16

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584312

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 80.1 Station ID: EPAFMC11

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	4120			P	1.53	8.08
7440-36-0	Antimony	4.95			P	0.194	0.808
7440-38-2	Arsenic	12.4			P	0.404	0.808
7440-39-3	Barium	56			P	0.129	0.404
7440-41-7	Beryllium	0.389	J		P	0.129	0.404
7440-43-9	Cadmium	0.0404	U		P	0.0404	0.404
7440-70-2	Calcium	20000			P	2.66	8.08
7440-47-3	Chromium	54.4			P	0.129	0.404
7440-48-4	Cobalt	10.4			P	0.0404	0.404
7440-50-8	Copper	12.3			P	0.129	0.404
7439-89-6	Iron	24300			P	0.484	4.04
7439-92-1	Lead	42.7			P	0.274	0.646
7439-95-4	Magnesium	8940			P	2.34	8.08
7439-96-5	Manganese	645			P	0.129	0.404
7439-97-6	Mercury	0.0193			CV	0.00288	0.0156
7440-02-0	Nickel	14.1			P	0.129	0.404
7440-09-7	Potassium	238			P	4.04	40.4
7782-49-2	Selenium	0.323	U		P	0.323	1.62
7440-22-4	Silver	0.129	U		P	0.129	0.404
7440-23-5	Sodium	93.4			P	8.08	24.2
7440-28-0	Thallium	0.5	J		P	0.274	0.808

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-16

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584312

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 80.1 Station ID: EPAFMC11

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7440-62-2	Vanadium	34.9			P	0.129	0.404
7440-66-6	Zinc	121			P	0.266	0.808

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SW-01

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: SAS No: SDG No.: 3505843

Matrix: WATER Lab Sample ID: 350584313

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 0 Station ID: EPAFMC11

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	64.5	J		P	9.3	100
7440-36-0	Antimony	3.3	U		P	3.3	10
7440-38-2	Arsenic	7.06	J		P	3.31	10
7440-39-3	Barium	32			P	0.22	10
7440-41-7	Beryllium	0.12	U		P	0.12	5
7440-43-9	Cadmium	0.72	U		P	0.72	5
7440-70-2	Calcium	44300			P	39	100
7440-47-3	Chromium	0.901	J		P	0.43	10
7440-48-4	Cobalt	0.37	U		P	0.37	10
7440-50-8	Copper	2.7	U		P	2.7	10
7439-89-6	Iron	102			P	5.5	50
7439-92-1	Lead	3.7	U		P	3.7	15
7439-95-4	Magnesium	20400			P	9.8	100
7439-96-5	Manganese	33.9			P	0.35	10
7439-97-6	Mercury	0.037	U		CV	0.037	0.2
7440-02-0	Nickel	0.93	U		P	0.93	5
7440-09-7	Potassium	1130			P	71.7	500
7782-49-2	Selenium	4.1	U		P	4.1	20
7440-22-4	Silver	0.52	U		P	0.52	10
7440-23-5	Sodium	26000			P	180	300
7440-28-0	Thallium	0.507	J		F	0.34	2

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SW-01

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: WATER Lab Sample ID: 350584313

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 0 Station ID: EPAFMC11

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7440-62-2	Vanadium	0.565	J		P	0.44	10
7440-66-6	Zinc	4.23	J		P	4	20

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SW-03

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: SAS No: SDG No.: 3505843

Matrix: WATER Lab Sample ID: 350584314

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 0 Station ID: EPAFMC11

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	57.3	J		P	9.3	100
7440-36-0	Antimony	3.3	U		P	3.3	10
7440-38-2	Arsenic	3.31	U		P	3.31	10
7440-39-3	Barium	33.9			P	0.22	10
7440-41-7	Beryllium	0.12	U		P	0.12	5
7440-43-9	Cadmium	0.72	U		P	0.72	5
7440-70-2	Calcium	46200			P	39	100
7440-47-3	Chromium	0.813	J		P	0.43	10
7440-48-4	Cobalt	0.37	U		P	0.37	10
7440-50-8	Copper	2.7	U		P	2.7	10
7439-89-6	Iron	94.8			P	5.5	50
7439-92-1	Lead	3.7	U		P	3.7	15
7439-95-4	Magnesium	21400			P	9.8	100
7439-96-5	Manganese	37.7			P	0.35	10
7439-97-6	Mercury	0.037	U		CV	0.037	0.2
7440-02-0	Nickel	0.93	U		P	0.93	5
7440-09-7	Potassium	1220			P	71.7	500
7782-49-2	Selenium	12.9	J		P	4.1	20
7440-22-4	Silver	0.52	U		P	0.52	10
7440-23-5	Sodium	27200			P	180	300
7440-28-0	Thallium	0.34	U		F	0.34	2

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SW-03

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: WATER Lab Sample ID: 350584314

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 0 Station ID: EPAFMC11

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7440-62-2	Vanadium	0.546	J		P	0.44	10
7440-66-6	Zinc	4.44	J		P	4	20

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

DRAFT

Metals Inorganic QC Summary Data

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

127643MB

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: WATER Lab Sample ID: 127643MB

Level:(low/med) LOW Date Received: 4/26/2012

PercentSolids: 0 Station ID: _____

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7439-97-6	Mercury	0.037	U		CV	0.037	0.2

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 127829MB
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 127829MB
 Level:(low/med) LOW Date Received: 4/26/2012
 PercentSolids: 100 Station ID: _____

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	1.69	U		P	1.69	8.88
7440-36-0	Antimony	0.213	U		P	0.213	0.888
7440-38-2	Arsenic	0.444	U		P	0.444	0.888
7440-39-3	Barium	0.142	U		P	0.142	0.444
7440-41-7	Beryllium	0.142	U		P	0.142	0.444
7440-43-9	Cadmium	0.0444	U		P	0.0444	0.444
7440-70-2	Calcium	2.93	U		P	2.93	8.88
7440-47-3	Chromium	0.142	U		P	0.142	0.444
7440-48-4	Cobalt	0.0444	U		P	0.0444	0.444
7440-50-8	Copper	0.224	J		P	0.142	0.444
7439-89-6	Iron	2.44	J		P	0.533	4.44
7439-92-1	Lead	0.302	U		P	0.302	0.71
7439-95-4	Magnesium	2.58	U		P	2.58	8.88
7439-96-5	Manganese	0.142	U		P	0.142	0.444
7440-02-0	Nickel	0.142	U		P	0.142	0.444
7440-09-7	Potassium	4.44	U		P	4.44	44.4
7782-49-2	Selenium	0.355	U		P	0.355	1.78
7440-22-4	Silver	0.142	U		P	0.142	0.444
7440-23-5	Sodium	8.88	U		P	8.88	26.6
7440-28-0	Thallium	0.302	U		P	0.302	0.888
7440-62-2	Vanadium	0.142	U		P	0.142	0.444

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 127829MB
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 127829MB
 Level:(low/med) LOW Date Received: 4/26/2012
 PercentSolids: 100 Station ID: _____

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7440-66-6	Zinc	0.293	U		P	0.293	0.888

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

127862MB

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: WATER Lab Sample ID: 127862MB

Level:(low/med) LOW Date Received: 4/26/2012

PercentSolids: 0 Station ID: _____

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7440-28-0	Thallium	0.34	U		F	0.34	2

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

127984MB

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 127984MB

Level:(low/med) LOW Date Received: 4/26/2012

PercentSolids: 100 Station ID: _____

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7439-97-6	Mercury	0.00348	U		CV	0.00348	0.0188

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

128299MB

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: WATER Lab Sample ID: 128299MB
 Level:(low/med) LOW Date Received: 4/30/2012
 PercentSolids: 0 Station ID: _____

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	9.3	U		P	9.3	100
7440-36-0	Antimony	3.3	U		P	3.3	10
7440-38-2	Arsenic	3.31	U		P	3.31	10
7440-39-3	Barium	0.22	U		P	0.22	10
7440-41-7	Beryllium	0.12	U		P	0.12	5
7440-43-9	Cadmium	0.72	U		P	0.72	5
7440-70-2	Calcium	65	J		P	39	100
7440-47-3	Chromium	0.457	J		P	0.43	10
7440-48-4	Cobalt	0.37	U		P	0.37	10
7440-50-8	Copper	2.7	U		P	2.7	10
7439-89-6	Iron	8.27	J		P	5.5	50
7439-92-1	Lead	3.7	U		P	3.7	15
7439-95-4	Magnesium	9.8	U		P	9.8	100
7439-96-5	Manganese	13.8			P	0.35	10
7440-02-0	Nickel	0.93	U		P	0.93	5
7440-09-7	Potassium	71.7	U		P	71.7	500
7782-49-2	Selenium	4.1	U		P	4.1	20
7440-22-4	Silver	0.52	U		P	0.52	10
7440-23-5	Sodium	180	U		P	180	300
7440-62-2	Vanadium	0.44	U		P	0.44	10
7440-66-6	Zinc	4	U		P	4	20

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site EPA Sample No. EPAFMC-SD-07MS
 Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843
 Matrix: SOIL Level:(low/med) LOW
 % Solids for Sample: 75.5

Concentration Units (mg/L or mg/kg): mg/Kg

Analyte	Control Limit %R	Spiked Sample		Sample Result (SR)		Spike Added (SA)	%R	Q	M
			C		C				
Aluminum	75 - 125	10600		5010		4050	138	N	P
Antimony	75 - 125	36.1		0.660	J	40.5	87.5		P
Arsenic	75 - 125	60.4		18.1		40.5	104.4		P
Barium	75 - 125	172		37.2		121	111.4		P
Beryllium	75 - 125	44.4		0.399	J	40.5	108.6		P
Cadmium	75 - 125	37.6		8.64		40.5	71.5	N	P
Calcium	75 - 125	82100		15900		4050	1634.6	N	P
Chromium	75 - 125	90.7		63.3		40.5	67.7	N	P
Cobalt	75 - 125	45.5		6.50		40.5	96.3		P
Copper	75 - 125	55.0		9.28		40.5	112.9		P
Iron	-	30500		33200		4050	0	N	P
Lead	75 - 125	57.9		21.7		40.5	89.4		P
Magnesium	75 - 125	14100		5340		4050	216.3	N	P
Manganese	-	1490		396		40.5	2701.2	N	P
Mercury	80 - 120	0.352		0.0156	J	0.348	96.7		CV
Nickel	75 - 125	46.1		9.53		40.5	90.3		P
Potassium	75 - 125	5010		298		4050	116.3		P
Selenium	75 - 125	39.9		0.353	U	40.5	98.5		P
Silver	75 - 125	17.0		0.141	U	16.2	104.9		P
Sodium	75 - 125	4640		67.4		4050	112.9		P
Thallium	-								NR
Thallium	75 - 125	37.2		0.531	J	40.5	90.5		P
Vanadium	75 - 125	88.6		58.8		40.5	73.6	N	P
Zinc	75 - 125	146		142		40.5	9.9	N	P

Comments:

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

EPAFMC-SD-07SD

Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

Matrix: SOIL Level:(low/med) LOW

% Solids for Sample: 75.5

Concentration Units (mg/L or mg/kg): mg/Kg

Analyte	Control Limit %R	Spiked Sample		Sample Result (SR)		Spike Added (SA)	%R	Q	M
			C		C				
Aluminum	75 - 125	11100		5010		4080	149.3	N	P
Antimony	75 - 125	35.9		0.660	J	40.8	86.4		P
Arsenic	75 - 125	51.2		18.1		40.8	81.1		P
Barium	75 - 125	155		37.2		122	96.6		P
Beryllium	75 - 125	43.6		0.399	J	40.8	105.9		P
Cadmium	75 - 125	39.4		8.64		40.8	75.4		P
Calcium	75 - 125	23400		15900		4080	183.8	N	P
Chromium	75 - 125	115		63.3		40.8	126.7	N	P
Cobalt	75 - 125	48.9		6.50		40.8	103.9		P
Copper	75 - 125	60.3		9.28		40.8	125		P
Iron	-	39700		33200		4080	159.3	N	P
Lead	75 - 125	60.1		21.7		40.8	94.1		P
Magnesium	75 - 125	11400		5340		4080	148.5	N	P
Manganese	-	366		396		40.8	0	N	P
Mercury	80 - 120	0.353		0.0156	J	0.371	90.9		CV
Nickel	75 - 125	48.8		9.53		40.8	96.2		P
Potassium	75 - 125	4780		298		4080	109.9		P
Selenium	75 - 125	28.4		0.353	U	40.8	69.6	N	P
Silver	75 - 125	16.7		0.141	U	16.3	102.5		P
Sodium	75 - 125	4500		67.4		4080	108.6		P
Thallium	-								NR
Thallium	75 - 125	39.0		0.531	J	40.8	94.3		P
Vanadium	75 - 125	94.6		58.8		40.8	87.7		P
Zinc	75 - 125	165		142		40.8	56.4	N	P

Comments:

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site EPA Sample No. 350581602A
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: Water Level:(low/med) LOW

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Control Limit %R	Spiked Sample		Sample Result (SR)		Spike Added (SA)	%R	Q	M
			C	C	U				
Mercury	80 - 120	3.07		0.03	U	3	102.3		CV

Comments:

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA Sample No. 350584301A

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: Soil Level:(low/med) LOW

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Control Limit %R	Spiked Sample		Sample Result (SR)		Spike Added (SA)	%R	Q	M
			C		C				
Aluminum	80 - 120	106000.00		56796.87		50000	99.2		P
Antimony	80 - 120	511.00		7.49	J	500	100.8		P
Arsenic	80 - 120	727.00		205.34		500	104.3		P
Barium	80 - 120	1910.00		421.47		1500	99.5		P
Beryllium	80 - 120	543.00		4.53	J	500	107.7		P
Cadmium	80 - 120	595.00		98.01		500	99.3		P
Calcium	80 - 120	220000.00		180286.68		50000	80.4		P
Chromium	80 - 120	1190.00		718.03		500	94.9		P
Cobalt	80 - 120	574.00		73.72		500	100.0		P
Copper	80 - 120	639.00		105.21		500	106.8		P
Iron	80 - 120	396000.00		376755.49		50000	39.3		P
Lead	80 - 120	732.00		245.68		500	97.4		P
Magnesium	80 - 120	106000.00		60582.44		50000	90.3		P
Manganese	80 - 120	4710.00		4493.87		500	43.1		P
Mercury	-	2.98		0.13	J	3	95.0		CV
Nickel	80 - 120	609.00		108.04		500	100.2		P
Potassium	80 - 120	57500.00		3385.45		50000	108.2		P
Selenium	80 - 120	468.00			U	500	93.5		P
Silver	80 - 120	207.00			U	200	103.6		P
Sodium	80 - 120	53900.00		764.20		50000	106.3		P
Vanadium	80 - 120	1180.00		666.49		500	102.6		P
Zinc	80 - 120	2010.00		1608.45		500	80.0		P

Comments:

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA Sample No. 350584313A

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: Water Level:(low/med) LOW

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Control Limit %R	Spiked Sample	Sample Result (SR)		Spike Added (SA)	%R	Q	M
			C	C				
Aluminum	80 - 120	51100.00		64.53	J	50000	102.2	P
Antimony	80 - 120	481.00		0.00	U	500	96.3	P
Arsenic	80 - 120	536.00		7.06	J	500	105.7	P
Barium	80 - 120	1560.00		32.06		1500	101.9	P
Beryllium	80 - 120	546.00		0.06	U	500	109.2	P
Cadmium	80 - 120	504.00		0.56	U	500	100.7	P
Calcium	80 - 120	93500.00		44317.51		50000	98.3	P
Chromium	80 - 120	522.00		0.90	J	500	104.1	P
Cobalt	80 - 120	512.00		0.09	U	500	102.4	P
Copper	80 - 120	524.00		2.19	U	500	104.7	P
Iron	80 - 120	51000.00		102.06		50000	101.8	P
Lead	80 - 120	529.00		0.88	U	500	105.7	P
Magnesium	80 - 120	70200.00		20396.89		50000	99.7	P
Manganese	80 - 120	561.00		33.92		500	105.4	P
Nickel	80 - 120	521.00		-0.51	U	500	104.1	P
Potassium	80 - 120	53700.00		1131.69		50000	105.1	P
Selenium	80 - 120	527.00		-3.50	U	500	105.5	P
Silver	80 - 120	202.00		-0.27	U	200	100.9	P
Sodium	80 - 120	76400.00		26007.13		50000	100.9	P
Thallium	80 - 120	13.60		0.51	J	12.5	104.5	F
Vanadium	80 - 120	534.00		0.57	J	500	106.8	P
Zinc	80 - 120	526.00		4.23	J	500	104.4	P

Comments:

U.S. EPA - CLP

6

DUPLICATES

DRAFT

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

127645LCSD

Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

Matrix: WATER Level:(low/med) LOW

% Solids for Sample: 0

% Solids for Duplicate: 0

Concentration Units (mg/L or mg/kg): ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Mercury	20	2.97		2.98		0.3		CV

Comments:

090512 1954

U.S. EPA - CLP

6

DUPLICATES

DRAFT

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

127831LCSD

Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

Matrix: SOIL Level:(low/med) LOW

% Solids for Sample: 100

% Solids for Duplicate: 100

Concentration Units (mg/L or mg/kg): mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	20	4380		4380		0.0		P
Antimony	20	44.9		45.2		0.7		P
Arsenic	20	45.2		45.4		0.4		P
Barium	20	133		132		0.8		P
Beryllium	20	44.6		44.8		0.4		P
Cadmium	20	43.4		43.7		0.7		P
Calcium	20	4370		4360		0.2		P
Chromium	20	44.6		44.3		0.7		P
Cobalt	20	44.2		44		0.5		P
Copper	20	43.7		43.8		0.2		P
Iron	20	4450		4430		0.5		P
Lead	20	44.8		44.8		0.0		P
Magnesium	20	4310		4280		0.7		P
Manganese	20	45.8		44.7		2.4		P
Nickel	20	44.2		44.4		0.5		P
Potassium	20	4450		4450		0.0		P
Selenium	20	42.2		42.6		0.9		P
Silver	20	17.5		17.3		1.1		P
Sodium	20	4440		4420		0.5		P
Thallium	20	43.9		43.9		0.0		P
Vanadium	20	46.8		46.3		1.1		P
Zinc	20	45		45.5		1.1		P

Comments:

090512 1954

U.S. EPA - CLP

6

DUPLICATES

DRAFT

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13 127864LCSD

Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

Matrix: WATER Level:(low/med) LOW

% Solids for Sample: 0

% Solids for Duplicate: 0

Concentration Units (mg/L or mg/kg): ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Thallium	25	24.9		24.5		1.6		F

Comments:

090512 1954

U.S. EPA - CLP

6

DUPLICATES

DRAFT

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

127986LCSD

Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

Matrix: SOIL Level:(low/med) LOW

% Solids for Sample: 100

% Solids for Duplicate: 100

Concentration Units (mg/L or mg/kg): mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Mercury	20	0.255		0.29		12.8		CV

Comments:

090512 1954

U.S. EPA - CLP

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DUPLICATES

DRAFT

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

128301LCSD

Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

Matrix: WATER Level:(low/med) LOW

% Solids for Sample: 0 % Solids for Duplicate: 0

Concentration Units (mg/L or mg/kg): ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	20	50700		51000		0.6		P
Antimony	20	509		513		0.8		P
Arsenic	20	520		526		1.1		P
Barium	20	1510		1530		1.3		P
Beryllium	20	521		528		1.3		P
Cadmium	20	497		498		0.2		P
Calcium	20	50800		51000		0.4		P
Chromium	20	502		509		1.4		P
Cobalt	20	496		503		1.4		P
Copper	20	504		508		0.8		P
Iron	20	50900		51100		0.4		P
Lead	20	518		522		0.8		P
Magnesium	20	50300		50700		0.8		P
Manganese	20	513		518		1.0		P
Nickel	20	510		512		0.4		P
Potassium	20	51900		52200		0.6		P
Selenium	20	510		518		1.6		P
Silver	20	193		193		0.0		P
Sodium	20	50600		50900		0.6		P
Vanadium	20	517		519		0.4		P
Zinc	20	510		518		1.6		P

Comments:

090512 1954

U.S. EPA - CLP

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DUPLICATES

DRAFT

EPA Sample No.

EPAFMC-SD-07SD

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

Matrix: SOIL Level:(low/med) LOW

% Solids for Sample: 75.5

% Solids for Duplicate: 75.5

Concentration Units (mg/L or mg/kg): mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	20	10600		11100		4.6		P
Antimony	20	36.1		35.9		0.6		P
Arsenic	20	60.4		51.2		16.5		P
Barium	20	172		155		10.4		P
Beryllium	20	44.4		43.6		1.8		P
Cadmium	20	37.6		39.4		4.7		P
Calcium	20	82100		23400		111.3	*	P
Chromium	20	90.7		115		23.6	*	P
Cobalt	20	45.5		48.9		7.2		P
Copper	20	55		60.3		9.2		P
Iron	20	30500		39700		26.2	*	P
Lead	20	57.9		60.1		3.7		P
Magnesium	20	14100		11400		21.2	*	P
Manganese	20	1490		366		121.1	*	P
Mercury	20	0.352		0.353		0.3		CV
Nickel	20	46.1		48.8		5.7		P
Potassium	20	5010		4780		4.7		P
Selenium	20	39.9		28.4		33.7	*	P
Silver	20	17		16.7		1.8		P
Sodium	20	4640		4500		3.1		P
Thallium	20	37.2		39		4.7		P
Vanadium	20	88.6		94.6		6.6		P
Zinc	20	146		165		12.2		P

Comments:

090512 1954

U.S. EPA - CLP

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LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

127644LCS

Lab Code: PEL Case No.: SAS No.: SDG No.: 3505843

Solid LCS Source:

Aqueous LCS Source: 45799

Analyte	Aqueous (ug/L)			Solid				
	True	Found	%R	True	Found	C	Limits	%R
Mercury	3	2.97	99.0				-	

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

127645LCSD

Lab Code: PEL Case No.: SAS No.: SDG No.: 3505843

Solid LCS Source:

Aqueous LCS Source: 45799

Analyte	Aqueous (ug/L)			Solid				
	True	Found	%R	True	Found	C	Limits	%R
Mercury	3	2.98	99.3				-	

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

EPA Sample No.

127830LCS

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

Solid LCS Source: 45535, 45139, 45964,

Aqueous LCS Source:

Analyte	Aqueous			Solid (mg/Kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum				4500	4380		80 - 120	97.3
Antimony				45	44.9		80 - 120	99.8
Arsenic				45	45.2		80 - 120	100.4
Barium				135	133		80 - 120	98.5
Beryllium				45	44.6		80 - 120	99.1
Cadmium				45	43.4		80 - 120	96.4
Calcium				4500	4370		80 - 120	97.1
Chromium				45	44.6		80 - 120	99.1
Cobalt				45	44.2		80 - 120	98.2
Copper				45	43.7		80 - 120	97.1
Iron				4500	4450		80 - 120	98.9
Lead				45	44.8		80 - 120	99.6
Magnesium				4500	4310		80 - 120	95.8
Manganese				45	45.8		80 - 120	101.8
Nickel				45	44.2		80 - 120	98.2
Potassium				4500	4450		80 - 120	98.9
Selenium				45	42.2		80 - 120	93.8
Silver				18	17.5		80 - 120	97.2
Sodium				4500	4440		80 - 120	98.7
Thallium				45	43.9		80 - 120	97.6
Vanadium				45	46.8		80 - 120	104.0
Zinc				45	45		80 - 120	100.0

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

127831LCSD

Lab Code: PEL Case No.: SAS No.: SDG No.: 3505843

Solid LCS Source: 45535, 45139, 45964,

Aqueous LCS Source:

Analyte	Aqueous			Solid (mg/Kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum				4380	4380		80 - 120	100.0
Antimony				43.8	45.2		80 - 120	103.2
Arsenic				43.8	45.4		80 - 120	103.7
Barium				131	132		80 - 120	100.8
Beryllium				43.8	44.8		80 - 120	102.3
Cadmium				43.8	43.7		80 - 120	99.8
Calcium				4380	4360		80 - 120	99.5
Chromium				43.8	44.3		80 - 120	101.1
Cobalt				43.8	44		80 - 120	100.5
Copper				43.8	43.8		80 - 120	100.0
Iron				4380	4430		80 - 120	101.1
Lead				43.8	44.8		80 - 120	102.3
Magnesium				4380	4280		80 - 120	97.7
Manganese				43.8	44.7		80 - 120	102.1
Nickel				43.8	44.4		80 - 120	101.4
Potassium				4380	4450		80 - 120	101.6
Selenium				43.8	42.6		80 - 120	97.3
Silver				17.5	17.3		80 - 120	98.9
Sodium				4380	4420		80 - 120	100.9
Thallium				43.8	43.9		80 - 120	100.2
Vanadium				43.8	46.3		80 - 120	105.7
Zinc				43.8	45.5		80 - 120	103.9

U.S. EPA - CLP

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LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

127863LCS

Lab Code: PEL Case No.: SAS No.: SDG No.: 3505843

Solid LCS Source:

Aqueous LCS Source: 45139, 45964, 45240

Analyte	Aqueous (ug/L)			Solid				
	True	Found	%R	True	Found	C	Limits	%R
Thallium	25	24.9	99.6				-	

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

127864LCSD

Lab Code: PEL Case No.: SAS No.: SDG No.: 3505843

Solid LCS Source:

Aqueous LCS Source: 45139, 45964, 45240

Analyte	Aqueous (ug/L)			Solid				
	True	Found	%R	True	Found	C	Limits	%R
Thallium	25	24.5	98.0				-	

U.S. EPA - CLP

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LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

127985LCS

Lab Code: PEL Case No.: SAS No.: SDG No.: 3505843

Solid LCS Source: 45799

Aqueous LCS Source:

Analyte	Aqueous			Solid (mg/Kg)				
	True	Found	%R	True	Found	C	Limits	%R
Mercury				0.293	0.255		80 - 120	87.0

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

127986LCSD

Lab Code: PEL Case No.: SAS No.: SDG No.: 3505843

Solid LCS Source: 45799

Aqueous LCS Source:

Analyte	Aqueous			Solid (mg/Kg)				
	True	Found	%R	True	Found	C	Limits	%R
Mercury				0.298	0.29		80 - 120	97.3

U.S. EPA - CLP

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LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

128300LCS

Lab Code: PEL Case No.: SAS No.: SDG No.: 3505843

Solid LCS Source:

Aqueous LCS Source: 45535, 45139, 44322,

Analyte	Aqueous (ug/L)			Solid				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum	50000	50700	101.4				-	
Antimony	500	509	101.8				-	
Arsenic	500	520	104.0				-	
Barium	1500	1510	100.7				-	
Beryllium	500	521	104.2				-	
Cadmium	500	497	99.4				-	
Calcium	50000	50800	101.6				-	
Chromium	500	502	100.4				-	
Cobalt	500	496	99.2				-	
Copper	500	504	100.8				-	
Iron	50000	50900	101.8				-	
Lead	500	518	103.6				-	
Magnesium	50000	50300	100.6				-	
Manganese	500	513	102.6				-	
Nickel	500	510	102.0				-	
Potassium	50000	51900	103.8				-	
Selenium	500	510	102.0				-	
Silver	200	193	96.5				-	
Sodium	50000	50600	101.2				-	
Vanadium	500	517	103.4				-	
Zinc	500	510	102.0				-	

U.S. EPA - CLP

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LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

128301LCSD

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Solid LCS Source:

Aqueous LCS Source: 45535, 45139, 44322,

Analyte	Aqueous (ug/L)			Solid				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum	50000	51000	102.0				-	
Antimony	500	513	102.6				-	
Arsenic	500	526	105.2				-	
Barium	1500	1530	102.0				-	
Beryllium	500	528	105.6				-	
Cadmium	500	498	99.6				-	
Calcium	50000	51000	102.0				-	
Chromium	500	509	101.8				-	
Cobalt	500	503	100.6				-	
Copper	500	508	101.6				-	
Iron	50000	51100	102.2				-	
Lead	500	522	104.4				-	
Magnesium	50000	50700	101.4				-	
Manganese	500	518	103.6				-	
Nickel	500	512	102.4				-	
Potassium	50000	52200	104.4				-	
Selenium	500	518	103.6				-	
Silver	200	193	96.5				-	
Sodium	50000	50900	101.8				-	
Vanadium	500	519	103.8				-	
Zinc	500	518	103.6				-	

DRAFT

Wet Chemistry Data Package

**CASE NARRATIVE
TOTAL ORGANIC CARBON**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

Analyses were performed according to Spectrum Analytical Inc. Laboratory's Standard Operating Procedures and EPA SW846 Method 9060Mod.

IV. PREPARATION

There is no preparation step for this method.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

1. Calibration Blanks:

All acceptance criteria were met.

2. Method Blanks:

All acceptance criteria were met.

C. Spikes:

1. Laboratory Control Spikes (LCS):

An LCS/LCSD set was analyzed.

All percent recovery and relative percent difference (RPD) criteria were met.

2. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD):

Spikes are not available for this method.

D. Duplicate:

**CASE NARRATIVE
TOTAL ORGANIC CARBON**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843


Client: OTIE

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)

E. Samples:

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature: 
Name: Troy L. Roberts Title: Inorg. Manager

SIGNED:

DATE: 05/09/2012

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Sit
Lab Code: PEL Case No.: _____ SDG No.: 3505843
SOW No.: _____

EPA Sample No	Lab Sample ID
<u>EPAFMC-SD-07</u>	<u>350584301</u>
<u>EPAFMC-SD-08</u>	<u>350584304</u>
<u>EPAFMC-SD-09</u>	<u>350584305</u>
<u>EPAFMC-SD-10</u>	<u>350584306</u>
<u>EPAFMC-SD-11</u>	<u>350584307</u>
<u>EPAFMC-SD-12</u>	<u>350584308</u>
<u>EPAFMC-SD-13</u>	<u>350584309</u>
<u>EPAFMC-SD-14</u>	<u>350584310</u>
<u>EPAFMC-SD-15</u>	<u>350584311</u>
<u>EPAFMC-SD-16</u>	<u>350584312</u>

Comments:

DRAFT

Wetchem_TOCS Inorganic Sample Data

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-07

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584301

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 75.5 Station ID: EPAFMC06

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
1012_5	TOC	9740			TC	57.4	494

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-08

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584304

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 97.1 Station ID: EPAFMC07

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
1012_5	TOC	1220			TC	38.8	334

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-09

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584305

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 77.7 Station ID: EPAFMC08

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
1012_5	TOC	2430			TC	66	568

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

090512 1955

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-10

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584306

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 79.7 Station ID: EPAFMC09

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
1012_5	TOC	6000			TC	50	430

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-11

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139
Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
Matrix: SOIL Lab Sample ID: 350584307
Level:(low/med) LOW Date Received: 4/25/2012
PercentSolids: 78.4 Station ID: EPAFMC10

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
1012_5	TOC	7320			TC	67	576

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-12

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139
Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
Matrix: SOIL Lab Sample ID: 350584308
Level:(low/med) LOW Date Received: 4/25/2012
PercentSolids: 84.4 Station ID: EPAFMC11

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
1012_5	TOC	13200			TC	46.5	401

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-13

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584309

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 78 Station ID: EPAFMC12

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
1012_5	TOC	26200			TC	60.6	521

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

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1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-14

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584310

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 80.6 Station ID: EPAFMC13

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
1012_5	TOC	1640			TC	52.1	449

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-15

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584311

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 82.2 Station ID: EPAFMC14

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
1012_5	TOC	14300			TC	54.6	470

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-16

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584312

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 80.1 Station ID: EPAFMC11

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
1012_5	TOC	6240			TC	49	422

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

DRAFT

Wetchem_TOCS Inorganic QC Summary Data

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 129552MB
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 129552MB
 Level:(low/med) LOW Date Received: 5/3/2012
 PercentSolids: 100 Station ID: _____

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
1012_5	TOC	54.6	U		TC	54.6	470

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

6

DUPLICATES

DRAFT

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

129554LCSD

Lab Code: PEL

Case No.: _____

SAS No.: _____

SDG No.: 3505843

Matrix: SOIL

Level:(low/med)

LOW

% Solids for Sample: 100

% Solids for Duplicate: 100

Concentration Units (mg/L or mg/kg): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
TOC	20	102000		107000		4.8		TC

Comments:

090512 1955

U.S. EPA - CLP

7-CC

LABORATORY CONTROL SAMPLE

DRAFT

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Sit 129553LCS

Lab Code : PEL Case No. SAS No: SDG No.: 3505843

Matrix: (soil/water) SOIL

Concentration Units: (MG/KG)

PARAMETER	LCS SOURCE	M	LIMITS		TRUE	FOUND	%R	C
			LOWER	UPPER				
TOC	44239	TC	80	120	100000	102000	102	

Comments:

U.S. EPA - CLP

7-CC

LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Sit

129554LCSD

Lab Code : PEL Case No. SAS No: SDG No.: 3505843

Matrix: (soil/water) SOIL

Concentration Units: (MG/KG)

PARAMETER	LCS SOURCE	M	LIMITS		TRUE	FOUND	%R	C
			LOWER	UPPER				
TOC	44239	TC	80	120	100000	107000	107	

Comments:

090512 1955

DRAFT

Hardness Data Package

**CASE NARRATIVE
HARDNESS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Analysis: All holding times were met.

III. METHODS

Analyses were performed according to the Spectrum Analytical Inc. Standard Operating Procedures and SM 2340B.

Soil samples were prepared by
Not applicable


IV. ANALYSIS

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)

A. Samples:

Sample analysis proceeded normally.
Hardness results were calculated using Calcium and Magnesium results from Method 6010B.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature: 
Name: Troy L. Roberts Title: Inorg. Manager

SIGNED:

DATE: 05/09/2012

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Sit
Lab Code: PEL Case No.: _____ SDG No.: 3505843
SOW No.: _____

EPA Sample No

Lab Sample ID

<u>EPAFMC-SD-07</u>	<u>350584301</u>
<u>EPAFMC-SD-08</u>	<u>350584304</u>
<u>EPAFMC-SD-09</u>	<u>350584305</u>
<u>EPAFMC-SD-10</u>	<u>350584306</u>
<u>EPAFMC-SD-11</u>	<u>350584307</u>
<u>EPAFMC-SD-12</u>	<u>350584308</u>
<u>EPAFMC-SD-13</u>	<u>350584309</u>
<u>EPAFMC-SD-14</u>	<u>350584310</u>
<u>EPAFMC-SD-15</u>	<u>350584311</u>
<u>EPAFMC-SD-16</u>	<u>350584312</u>
<u>EPAFMC-SW-01</u>	<u>350584313</u>
<u>EPAFMC-SW-03</u>	<u>350584314</u>

Comments:

DRAFT

Wetchem_har Inorganic Sample Data

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-07

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584301

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 75.5 Station ID: EPAFMC06

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
35-50-0	Hardness	61692.42			P			

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-08

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584304

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 97.1 Station ID: EPAFMC07

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
35-50-0	Hardness	73303.3			P			

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-09

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584305

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 77.7 Station ID: EPAFMC08

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
35-50-0	Hardness	64408.42			P			

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-10

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584306

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 79.7 Station ID: EPAFMC09

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
35-50-0	Hardness	88146.78			P			

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-11

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584307

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 78.4 Station ID: EPAFMC10

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
35-50-0	Hardness	81479.38			P			

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-12

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584308

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 84.4 Station ID: EPAFMC11

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
35-50-0	Hardness	75187.84			P			

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-13

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584309

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 78 Station ID: EPAFMC12

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
35-50-0	Hardness	78292.06			P			

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-14

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584310

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 80.6 Station ID: EPAFMC13

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
35-50-0	Hardness	50235.04			P			

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-15

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584311

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 82.2 Station ID: EPAFMC14

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
35-50-0	Hardness	101206.08			P			

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-16

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584312

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 80.1 Station ID: EPAFMC11

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
35-50-0	Hardness	86754.92			P			

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SW-01

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: WATER Lab Sample ID: 350584313

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 0 Station ID: EPAFMC11

CONCENTRATION UNITS: *mg/L*

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
35-50-0	Hardness	195			P	0.2	1

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SW-03

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: WATER Lab Sample ID: 350584314

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 0 Station ID: EPAFMC11

CONCENTRATION UNITS: *mg/L*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
35-50-0	Hardness	203			P		0.2	1

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

Mark Gudnason [Tampa]

From: Mark Gudnason [Tampa]
Sent: Thursday, May 10, 2012 6:19 PM
To: Limari Krebs; 'Russell Henderson'
Subject: FW: 3505843 / OTIE / 6010

Good afternoon.

This will be in the case narrative for the referenced method and SDG.

Calibration Blanks:

CCB1076861 was analyzed on 05/03/12 15:08. The following analyte(s) were detected below RL: Aluminum at 25.7 ug/L, Barium at 0.344 ug/L, Beryllium at 0.238 ug/L, Calcium at 57.3 ug/L, Magnesium at 20.9 ug/L, Manganese at 0.982 ug/L, Selenium at 5.89 ug/L. The following analyte(s) were detected above RL: Iron at 78 ug/L. The hit in the samples for Iron is at least 10X the amount of the hit in the blank. No further action was taken.

CCB1076874 was analyzed on 05/03/12 16:17. The following analyte(s) were detected below RL: Aluminum at 21.4 ug/L, Beryllium at 0.209 ug/L, Magnesium at 15.7 ug/L, Manganese at 0.823 ug/L. The following analyte(s) were detected above RL: Iron at 79.7 ug/L. The hit in the samples for Iron is at least 10X the amount of the hit in the blank. No further action was taken.

1. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD):

A client requested MS/SD set was analyzed.

All percent recovery and relative percent difference (RPD) criteria were met with the exception of:

MS - EPAFMC-SD-07MS was analyzed with the soil samples on 05/03/12. The following analyte(s) were recovered below criteria: Cadmium at 71.5 % with criteria of (75-125), Chromium at 67.7 % with criteria of (75-125), Vanadium at 73.6 % with criteria of (75-125), Zinc at 9.9 % with criteria of (75-125) and the following analyte(s) were recovered above criteria: Aluminum at 138 % with criteria of (75-125), Magnesium at 216.3 % with criteria of (75-125).

SD - EPAFMC-SD-07SD was analyzed with the soil samples on 05/03/12. The following analyte(s) were recovered below criteria: Selenium at 69.6 % with criteria of (75-125), Zinc at 56.4 % with criteria of (75-125) and the following analyte(s) were recovered above criteria: Aluminum at 149.3 % with criteria of (75-125), Chromium at 126.7 % with criteria of (75-125), Magnesium at 148.5 % with criteria of (75-125).

The following analyte(s) exceeded RPD criteria: Chromium at 23.6 % with criteria of (20), Magnesium at 21.2 % with criteria of (20), Selenium at 33.7 % with criteria of (20). The most probable cause for the MS/MSD exceeding limits is sample matrix due to the fact that the LCS/LCSD pass all quality control criteria. No further action was taken.

Samples coded accordingly.

2. Serial Dilution:

All acceptance criteria were met with the exception of:

Serial Dilution 350584301L was analyzed with the soil samples on 05/03/12. The following analyte(s) exceeded criteria: Potassium at 12 % with criteria of (10). The most probable cause for the SD exceeding limits is sample matrix due to the fact that the LCS/LCSD pass all quality control criteria. No further action was taken.

Samples coded accordingly.

Mark Gudnason [Tampa]

From: Mark Gudnason [Tampa]
Sent: Thursday, May 10, 2012 3:23 PM
To: 'Limari Krebs'
Cc: Brian Spann [Tampa]
Subject: OTIE-Five Mile Creek : 3505843.zip, 3505843-final.pdf

Attachments: 3505843.zip; 3505843-final.pdf



3505843.zip (179
KB)



3505843-final.pdf
(642 KB)

Limari,

Attached is the final and complete set of result forms and excel for the referenced SDG.

Mark

The message is ready to be sent with the following file or link attachments:

3505843.zip
3505843-final.pdf

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

EXECUTIVE SUMMARY - Detection Highlights

3505843

SAMPLE ID: EPAFMC-SD-07

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Hardness	61700		MG/KG	A2340B
Aluminum	5010 N	8.82	MG/KG	SW6010B
Antimony	0.660 J	0.882	MG/KG	SW6010B
Arsenic	18.1	0.882	MG/KG	SW6010B
Barium	37.2	0.441	MG/KG	SW6010B
Beryllium	0.399 J	0.441	MG/KG	SW6010B
Cadmium	8.64 N	0.441	MG/KG	SW6010B
Chromium	63.3 N*	0.441	MG/KG	SW6010B
Cobalt	6.50	0.441	MG/KG	SW6010B
Copper	9.28	0.441	MG/KG	SW6010B
Lead	21.7	0.705	MG/KG	SW6010B
Magnesium	5340 N*	8.82	MG/KG	SW6010B
Nickel	9.53	0.441	MG/KG	SW6010B
Potassium	298 E	44.1	MG/KG	SW6010B
Sodium	67.4	26.4	MG/KG	SW6010B
Thallium	0.531 J	0.882	MG/KG	SW6010B
Vanadium	58.8 N	0.441	MG/KG	SW6010B
Zinc	142 N	0.882	MG/KG	SW6010B
Mercury	0.0156 J	0.0249	MG/KG	SW7471A
4-Methylphenol	88.1 J	280	UG/KG	SW8270D
Anthracene	75.6 J	280	UG/KG	SW8270D
Benzo(a)anthracene	449	280	UG/KG	SW8270D
Benzo(a)pyrene	400	280	UG/KG	SW8270D
Benzo(b)fluoranthene	526	280	UG/KG	SW8270D
Benzo(g,h,i)perylene	232 J	280	UG/KG	SW8270D
Benzo(k)fluoranthene	421	280	UG/KG	SW8270D
Chrysene	489	280	UG/KG	SW8270D
Dibenzo(a,h)anthracene	71.8 J	280	UG/KG	SW8270D
Fluoranthene	785	280	UG/KG	SW8270D
Indeno(1,2,3-cd)pyrene	204 J	280	UG/KG	SW8270D
Phenanthrene	230 J	280	UG/KG	SW8270D
Pyrene	667	280	UG/KG	SW8270D
1-Methylnaphthalene	8.00	3.5	UG/KG	SW8270D-SIM
2-Methylnaphthalene	21.0	3.5	UG/KG	SW8270D-SIM
Acenaphthene	9.00	3.5	UG/KG	SW8270D-SIM
Acenaphthylene	26.0	3.5	UG/KG	SW8270D-SIM
Anthracene	53.2	3.5	UG/KG	SW8270D-SIM
Benzo(a)anthracene	186	3.5	UG/KG	SW8270D-SIM
Benzo(a)pyrene	153	3.5	UG/KG	SW8270D-SIM

EXECUTIVE SUMMARY - Detection Highlights

3505843

Benzo(b)fluoranthene	213	3.5	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	90.9	3.5	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	89.3	3.5	UG/KG	SW8270D-SIM
Chrysene	185	3.5	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	29.2	3.5	UG/KG	SW8270D-SIM
Fluoranthene	318	3.5	UG/KG	SW8270D-SIM
Fluorene	23.6	3.5	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	81.0	3.5	UG/KG	SW8270D-SIM
Naphthalene	58.4	3.5	UG/KG	SW8270D-SIM
Phenanthrene	124	3.5	UG/KG	SW8270D-SIM
Pyrene	236	3.5	UG/KG	SW8270D-SIM
TOC	9740	494	MG/KG	SW9060

SAMPLE ID: EPAFMC-SD-07DL1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Calcium	15600	44.1	MG/KG	SW6010B
Iron	34600	22.0	MG/KG	SW6010B
Manganese	422	2.20	MG/KG	SW6010B

SAMPLE ID: EPAFMC-SD-08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Hardness	73300		MG/KG	A2340B
Aluminum	5600	8.20	MG/KG	SW6010B
Antimony	0.204 J	0.820	MG/KG	SW6010B
Arsenic	16.1	0.820	MG/KG	SW6010B
Barium	57.1	0.410	MG/KG	SW6010B
Beryllium	0.577	0.410	MG/KG	SW6010B
Calcium	17400	8.20	MG/KG	SW6010B
Chromium	68.2	0.410	MG/KG	SW6010B
Cobalt	8.45	0.410	MG/KG	SW6010B
Copper	19.3	0.410	MG/KG	SW6010B
Lead	20.3	0.656	MG/KG	SW6010B
Magnesium	7250	8.20	MG/KG	SW6010B
Nickel	10.1	0.410	MG/KG	SW6010B
Potassium	334	41.0	MG/KG	SW6010B

EXECUTIVE SUMMARY - Detection Highlights

3505843

Sodium	74.2	24.6	MG/KG	SW6010B
Thallium	0.707 J	0.820	MG/KG	SW6010B
Vanadium	44.6	0.410	MG/KG	SW6010B
Zinc	140	0.820	MG/KG	SW6010B
Mercury	0.0182 J	0.0195	MG/KG	SW7471A
Aroclor-1260	21.0 J	30	UG/KG	SW8082
Benzo(a)anthracene	172 J	220	UG/KG	SW8270D
Benzo(a)pyrene	129 J	220	UG/KG	SW8270D
Benzo(b)fluoranthene	210 J	220	UG/KG	SW8270D
Benzo(g,h,i)perylene	88.6 J	220	UG/KG	SW8270D
Benzo(k)fluoranthene	87.6 J	220	UG/KG	SW8270D
Chrysene	187 J	220	UG/KG	SW8270D
Fluoranthene	380	220	UG/KG	SW8270D
Indeno(1,2,3-cd)pyrene	79.2 J	220	UG/KG	SW8270D
Phenanthrene	215 J	220	UG/KG	SW8270D
Pyrene	317	220	UG/KG	SW8270D
1-Methylnaphthalene	4.50	2.7	UG/KG	SW8270D-SIM
2-Methylnaphthalene	9.60	2.7	UG/KG	SW8270D-SIM
Acenaphthene	25.2	2.7	UG/KG	SW8270D-SIM
Acenaphthylene	52.8	2.7	UG/KG	SW8270D-SIM
Anthracene	43.1	2.7	UG/KG	SW8270D-SIM
Benzo(a)anthracene	119	2.7	UG/KG	SW8270D-SIM
Benzo(a)pyrene	95.7	2.7	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	154	2.7	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	61.4	2.7	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	44.9	2.7	UG/KG	SW8270D-SIM
Chrysene	106	2.7	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	18.7	2.7	UG/KG	SW8270D-SIM
Fluoranthene	202	2.7	UG/KG	SW8270D-SIM
Fluorene	14.4	2.7	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	54.1	2.7	UG/KG	SW8270D-SIM
Naphthalene	29.5	2.7	UG/KG	SW8270D-SIM
Phenanthrene	81.0	2.7	UG/KG	SW8270D-SIM
Pyrene	148	2.7	UG/KG	SW8270D-SIM
TOC	1220	334	MG/KG	SW9060

SAMPLE ID: EPAFMC-SD-08DL1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Iron	42400	20.5	MG/KG	SW6010B

EXECUTIVE SUMMARY - Detection Highlights

3505843

Manganese 659 2.05 MG/KG SW6010B

SAMPLE ID: EPAFMC-SD-09

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Hardness	64400		MG/KG	A2340B
Aluminum	5060	8.25	MG/KG	SW6010B
Antimony	0.636 J	0.825	MG/KG	SW6010B
Arsenic	23.8	0.825	MG/KG	SW6010B
Barium	50.3	0.412	MG/KG	SW6010B
Beryllium	0.437	0.412	MG/KG	SW6010B
Calcium	17400	8.25	MG/KG	SW6010B
Chromium	58.8	0.412	MG/KG	SW6010B
Cobalt	8.27	0.412	MG/KG	SW6010B
Copper	29.0	0.412	MG/KG	SW6010B
Lead	22.2	0.660	MG/KG	SW6010B
Magnesium	5090	8.25	MG/KG	SW6010B
Nickel	8.52	0.412	MG/KG	SW6010B
Potassium	262	41.2	MG/KG	SW6010B
Sodium	140	24.8	MG/KG	SW6010B
Thallium	0.525 J	0.825	MG/KG	SW6010B
Vanadium	55.3	0.412	MG/KG	SW6010B
Zinc	117	0.825	MG/KG	SW6010B
Mercury	0.0457	0.0150	MG/KG	SW7471A
Benzo(a)anthracene	161 J	280	UG/KG	SW8270D
Benzo(a)pyrene	108 J	280	UG/KG	SW8270D
Benzo(b)fluoranthene	163 J	280	UG/KG	SW8270D
Benzo(g,h,i)perylene	65.7 J	280	UG/KG	SW8270D
Benzo(k)fluoranthene	77.4 J	280	UG/KG	SW8270D
Chrysene	161 J	270	UG/KG	SW8270D
Fluoranthene	214 J	280	UG/KG	SW8270D
Indeno(1,2,3-cd)pyrene	57.9 J	280	UG/KG	SW8270D
Pyrene	252 J	280	UG/KG	SW8270D
1-Methylnaphthalene	2.80 J	3.3	UG/KG	SW8270D-SIM
2-Methylnaphthalene	6.40	3.3	UG/KG	SW8270D-SIM
Acenaphthene	3.40	3.3	UG/KG	SW8270D-SIM
Acenaphthylene	17.6	3.3	UG/KG	SW8270D-SIM
Anthracene	29.8	3.3	UG/KG	SW8270D-SIM
Benzo(a)anthracene	148	3.3	UG/KG	SW8270D-SIM
Benzo(a)pyrene	114	3.3	UG/KG	SW8270D-SIM

EXECUTIVE SUMMARY - Detection Highlights

3505843

Benzo(b)fluoranthene	160	3.3	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	62.3	3.3	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	51.6	3.3	UG/KG	SW8270D-SIM
Chrysene	124	3.3	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	23.7	3.3	UG/KG	SW8270D-SIM
Fluoranthene	199	3.3	UG/KG	SW8270D-SIM
Fluorene	7.50	3.3	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	59.4	3.3	UG/KG	SW8270D-SIM
Naphthalene	26.0	3.3	UG/KG	SW8270D-SIM
Phenanthrene	50.1	3.3	UG/KG	SW8270D-SIM
Pyrene	230	3.3	UG/KG	SW8270D-SIM
TOC	2430	568	MG/KG	SW9060

SAMPLE ID: EPAFMC-SD-09DL1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Iron	43700	20.6	MG/KG	SW6010B
Manganese	512	2.06	MG/KG	SW6010B

SAMPLE ID: EPAFMC-SD-10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Hardness	88100		MG/KG	A2340B
Aluminum	8300	7.95	MG/KG	SW6010B
Antimony	1.24	0.795	MG/KG	SW6010B
Arsenic	26.7	0.795	MG/KG	SW6010B
Barium	102	0.398	MG/KG	SW6010B
Beryllium	1.25	0.398	MG/KG	SW6010B
Chromium	106	0.398	MG/KG	SW6010B
Cobalt	10.8	0.398	MG/KG	SW6010B
Copper	11.1	0.398	MG/KG	SW6010B
Lead	22.3	0.636	MG/KG	SW6010B
Magnesium	6610	7.95	MG/KG	SW6010B
Nickel	9.96	0.398	MG/KG	SW6010B
Potassium	658	39.8	MG/KG	SW6010B
Sodium	186	23.8	MG/KG	SW6010B
Thallium	0.686 J	0.795	MG/KG	SW6010B

EXECUTIVE SUMMARY - Detection Highlights

3505843

Vanadium	86.3	0.398	MG/KG	SW6010B
Zinc	231	0.795	MG/KG	SW6010B
Mercury	0.00858 J	0.0129	MG/KG	SW7471A
Acenaphthylene	84.4 J	260	UG/KG	SW8270D
Anthracene	154 J	260	UG/KG	SW8270D
Benzo(a)anthracene	338	260	UG/KG	SW8270D
Benzo(a)pyrene	227 J	260	UG/KG	SW8270D
Benzo(b)fluoranthene	350	260	UG/KG	SW8270D
Benzo(g,h,i)perylene	118 J	260	UG/KG	SW8270D
Benzo(k)fluoranthene	123 J	260	UG/KG	SW8270D
Carbazole	76.6 J	260	UG/KG	SW8270D
Chrysene	326	260	UG/KG	SW8270D
Dibenzo(a,h)anthracene	50.2 J	260	UG/KG	SW8270D
Dibenzofuran	61.7 J	260	UG/KG	SW8270D
Fluoranthene	630	260	UG/KG	SW8270D
Fluorene	122 J	260	UG/KG	SW8270D
Indeno(1,2,3-cd)pyrene	104 J	260	UG/KG	SW8270D
Naphthalene	62.9 J	260	UG/KG	SW8270D
Phenanthrene	574	260	UG/KG	SW8270D
Pyrene	495	260	UG/KG	SW8270D
1-Methylnaphthalene	4.60	3.2	UG/KG	SW8270D-SIM
2-Methylnaphthalene	11.3	3.2	UG/KG	SW8270D-SIM
Acenaphthene	4.20	3.2	UG/KG	SW8270D-SIM
Acenaphthylene	39.9	3.2	UG/KG	SW8270D-SIM
Anthracene	104	3.2	UG/KG	SW8270D-SIM
Benzo(a)anthracene	298	3.2	UG/KG	SW8270D-SIM
Benzo(a)pyrene	208	3.2	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	298	3.2	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	111	3.2	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	107	3.2	UG/KG	SW8270D-SIM
Chrysene	297	3.2	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	46.3	3.2	UG/KG	SW8270D-SIM
Fluoranthene	423	3.2	UG/KG	SW8270D-SIM
Fluorene	16.6	3.2	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	110	3.2	UG/KG	SW8270D-SIM
Naphthalene	42.8	3.2	UG/KG	SW8270D-SIM
Phenanthrene	106	3.2	UG/KG	SW8270D-SIM
Pyrene	313	3.2	UG/KG	SW8270D-SIM
TOC	6000	430	MG/KG	SW9060

EXECUTIVE SUMMARY - Detection Highlights

3505843

SAMPLE ID: EPAFMC-SD-10DL1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Calcium	25200	39.8	MG/KG	SW6010B
Iron	56200	19.9	MG/KG	SW6010B
Manganese	1750	1.99	MG/KG	SW6010B

SAMPLE ID: EPAFMC-SD-11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Hardness	81500		MG/KG	A2340B
Aluminum	4910	9.81	MG/KG	SW6010B
Antimony	0.345 J	0.981	MG/KG	SW6010B
Arsenic	13.2	0.981	MG/KG	SW6010B
Barium	45.5	0.490	MG/KG	SW6010B
Beryllium	0.577	0.490	MG/KG	SW6010B
Calcium	21400	9.81	MG/KG	SW6010B
Chromium	47.6	0.490	MG/KG	SW6010B
Cobalt	6.73	0.490	MG/KG	SW6010B
Copper	6.49	0.490	MG/KG	SW6010B
Iron	28000	4.90	MG/KG	SW6010B
Lead	14.2	0.785	MG/KG	SW6010B
Magnesium	6810	9.81	MG/KG	SW6010B
Nickel	7.28	0.490	MG/KG	SW6010B
Potassium	343	49.0	MG/KG	SW6010B
Sodium	95.8	29.4	MG/KG	SW6010B
Vanadium	44.1	0.490	MG/KG	SW6010B
Zinc	100	0.981	MG/KG	SW6010B
Mercury	0.0210	0.0181	MG/KG	SW7471A
Benzo(a)anthracene	176 J	270	UG/KG	SW8270D
Benzo(a)pyrene	118 J	270	UG/KG	SW8270D
Benzo(b)fluoranthene	186 J	270	UG/KG	SW8270D
Benzo(g,h,i)perylene	70.2 J	270	UG/KG	SW8270D
Benzo(k)fluoranthene	91.8 J	270	UG/KG	SW8270D
Chrysene	183 J	270	UG/KG	SW8270D
Fluoranthene	275	270	UG/KG	SW8270D
Indeno(1,2,3-cd)pyrene	60.6 J	270	UG/KG	SW8270D
Pyrene	265 J	270	UG/KG	SW8270D

EXECUTIVE SUMMARY - Detection Highlights

3505843

1-Methylnaphthalene	5.30	3.4	UG/KG	SW8270D-SIM
2-Methylnaphthalene	9.90	3.4	UG/KG	SW8270D-SIM
Acenaphthene	7.70	3.4	UG/KG	SW8270D-SIM
Acenaphthylene	20.8	3.4	UG/KG	SW8270D-SIM
Anthracene	35.5	3.4	UG/KG	SW8270D-SIM
Benzo(a)anthracene	107	3.4	UG/KG	SW8270D-SIM
Benzo(a)pyrene	92.4	3.4	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	135	3.4	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	55.8	3.4	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	46.0	3.4	UG/KG	SW8270D-SIM
Chrysene	88.9	3.4	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	19.7	3.4	UG/KG	SW8270D-SIM
Fluoranthene	185	3.4	UG/KG	SW8270D-SIM
Fluorene	15.3	3.4	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	51.8	3.4	UG/KG	SW8270D-SIM
Naphthalene	69.0	3.4	UG/KG	SW8270D-SIM
Phenanthrene	60.8	3.4	UG/KG	SW8270D-SIM
Pyrene	133	3.4	UG/KG	SW8270D-SIM
TOC	7320	576	MG/KG	SW9060

SAMPLE ID: EPAFMC-SD-11DL1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Manganese	591	2.45	MG/KG	SW6010B

SAMPLE ID: EPAFMC-SD-12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Hardness	75200		MG/KG	A2340B
Aluminum	4670	9.34	MG/KG	SW6010B
Antimony	1.26	0.934	MG/KG	SW6010B
Arsenic	18.0	0.934	MG/KG	SW6010B
Barium	54.6	0.467	MG/KG	SW6010B
Beryllium	0.486	0.467	MG/KG	SW6010B
Calcium	18600	9.34	MG/KG	SW6010B
Chromium	61.3	0.467	MG/KG	SW6010B
Cobalt	13.0	0.467	MG/KG	SW6010B

EXECUTIVE SUMMARY - Detection Highlights

3505843

Iron	31500	4.67	MG/KG	SW6010B
Lead	30.4	0.748	MG/KG	SW6010B
Magnesium	6980	9.34	MG/KG	SW6010B
Nickel	18.3	0.467	MG/KG	SW6010B
Potassium	272	46.7	MG/KG	SW6010B
Silver	0.328 J	0.467	MG/KG	SW6010B
Sodium	80.1	28.0	MG/KG	SW6010B
Vanadium	45.0	0.467	MG/KG	SW6010B
Zinc	144	0.934	MG/KG	SW6010B
Mercury	0.0256	0.0203	MG/KG	SW7471A
2-Methylnaphthalene	65.7 J	250	UG/KG	SW8270D
Acenaphthylene	97.7 J	250	UG/KG	SW8270D
Anthracene	176 J	250	UG/KG	SW8270D
Benzo(a)anthracene	574	250	UG/KG	SW8270D
Benzo(a)pyrene	397	250	UG/KG	SW8270D
Benzo(b)fluoranthene	569	250	UG/KG	SW8270D
Benzo(g,h,i)perylene	215 J	250	UG/KG	SW8270D
Benzo(k)fluoranthene	279	250	UG/KG	SW8270D
Carbazole	69.8 J	250	UG/KG	SW8270D
Chrysene	550	250	UG/KG	SW8270D
Dibenzo(a,h)anthracene	71.6 J	250	UG/KG	SW8270D
Dibenzofuran	57.3 J	250	UG/KG	SW8270D
Fluoranthene	1060	250	UG/KG	SW8270D
Fluorene	55.3 J	250	UG/KG	SW8270D
Indeno(1,2,3-cd)pyrene	192 J	250	UG/KG	SW8270D
Naphthalene	342	250	UG/KG	SW8270D
Phenanthrene	373	250	UG/KG	SW8270D
Pyrene	878	250	UG/KG	SW8270D
1-Methylnaphthalene	65.8	3.1	UG/KG	SW8270D-SIM
2-Methylnaphthalene	162	3.1	UG/KG	SW8270D-SIM
Acenaphthene	36.1	3.1	UG/KG	SW8270D-SIM
Acenaphthylene	120	3.1	UG/KG	SW8270D-SIM
Anthracene	270	3.1	UG/KG	SW8270D-SIM
Benzo(a)anthracene	423	3.1	UG/KG	SW8270D-SIM
Benzo(a)pyrene	361	3.1	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	215	3.1	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	179	3.1	UG/KG	SW8270D-SIM
Chrysene	371	3.1	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	74.7	3.1	UG/KG	SW8270D-SIM
Fluorene	116	3.1	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	206	3.1	UG/KG	SW8270D-SIM
Phenanthrene	422	3.1	UG/KG	SW8270D-SIM
TOC	13200	401	MG/KG	SW9060

EXECUTIVE SUMMARY - Detection Highlights

3505843

SAMPLE ID: EPAFMC-SD-12DL1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Copper	636	2.34	MG/KG	SW6010B
Manganese	892	2.34	MG/KG	SW6010B
Benzo(b)fluoranthene	544	16	UG/KG	SW8270D-SIM
Fluoranthene	764	16	UG/KG	SW8270D-SIM
Naphthalene	666	16	UG/KG	SW8270D-SIM
Pyrene	532	16	UG/KG	SW8270D-SIM

SAMPLE ID: EPAFMC-SD-13

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Hardness	78300		MG/KG	A2340B
Aluminum	5520	10.4	MG/KG	SW6010B
Antimony	0.735 J	1.04	MG/KG	SW6010B
Arsenic	15.2	1.04	MG/KG	SW6010B
Barium	49.1	0.520	MG/KG	SW6010B
Beryllium	0.440 J	0.520	MG/KG	SW6010B
Calcium	19200	10.4	MG/KG	SW6010B
Chromium	50.2	0.520	MG/KG	SW6010B
Cobalt	10.3	0.520	MG/KG	SW6010B
Copper	43.1	0.520	MG/KG	SW6010B
Iron	35700	5.20	MG/KG	SW6010B
Lead	36.1	0.832	MG/KG	SW6010B
Magnesium	7370	10.4	MG/KG	SW6010B
Nickel	10.7	0.520	MG/KG	SW6010B
Potassium	312	52.0	MG/KG	SW6010B
Sodium	73.6	31.2	MG/KG	SW6010B
Thallium	0.656 J	1.04	MG/KG	SW6010B
Vanadium	52.0	0.520	MG/KG	SW6010B
Zinc	168	1.04	MG/KG	SW6010B
Mercury	0.167	0.0138	MG/KG	SW7471A
Anthracene	142 J	270	UG/KG	SW8270D
Benzo(a)anthracene	466	270	UG/KG	SW8270D
Benzo(a)pyrene	362	270	UG/KG	SW8270D

EXECUTIVE SUMMARY - Detection Highlights

3505843

Benzo(b)fluoranthene	603	270	UG/KG	SW8270D
Benzo(g,h,i)perylene	235 J	270	UG/KG	SW8270D
Benzo(k)fluoranthene	454	270	UG/KG	SW8270D
Carbazole	61.3 J	270	UG/KG	SW8270D
Chrysene	591	270	UG/KG	SW8270D
Fluoranthene	910	270	UG/KG	SW8270D
Fluorene	58.9 J	270	UG/KG	SW8270D
Indeno(1,2,3-cd)pyrene	206 J	270	UG/KG	SW8270D
Naphthalene	121 J	270	UG/KG	SW8270D
Phenanthrene	534	270	UG/KG	SW8270D
Pyrene	914	270	UG/KG	SW8270D
1-Methylnaphthalene	16.2	3.4	UG/KG	SW8270D-SIM
2-Methylnaphthalene	35.0	3.4	UG/KG	SW8270D-SIM
Acenaphthene	22.8	3.4	UG/KG	SW8270D-SIM
Acenaphthylene	68.7	3.4	UG/KG	SW8270D-SIM
Anthracene	143	3.4	UG/KG	SW8270D-SIM
Benzo(a)pyrene	407	3.4	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	249	3.4	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	199	3.4	UG/KG	SW8270D-SIM
Chrysene	452	3.4	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	84.4	3.4	UG/KG	SW8270D-SIM
Fluorene	35.0	3.4	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	231	3.4	UG/KG	SW8270D-SIM
Naphthalene	120	3.4	UG/KG	SW8270D-SIM
Phenanthrene	276	3.4	UG/KG	SW8270D-SIM
TOC	26200	521	MG/KG	SW9060

SAMPLE ID: EPAFMC-SD-13DL1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Manganese	915	2.60	MG/KG	SW6010B
Benzo(a)anthracene	582	17	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	672	17	UG/KG	SW8270D-SIM
Fluoranthene	962	17	UG/KG	SW8270D-SIM
Pyrene	698	17	UG/KG	SW8270D-SIM

EXECUTIVE SUMMARY - Detection Highlights

3505843

SAMPLE ID: EPAFMC-SD-14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Hardness	50200		MG/KG	A2340B
Aluminum	3570	7.04	MG/KG	SW6010B
Antimony	0.562 J	0.704	MG/KG	SW6010B
Arsenic	13.9	0.704	MG/KG	SW6010B
Barium	26.8	0.352	MG/KG	SW6010B
Beryllium	0.437	0.352	MG/KG	SW6010B
Calcium	12400	7.04	MG/KG	SW6010B
Chromium	45.0	0.352	MG/KG	SW6010B
Cobalt	6.51	0.352	MG/KG	SW6010B
Copper	14.3	0.352	MG/KG	SW6010B
Lead	15.2	0.563	MG/KG	SW6010B
Magnesium	4680	7.04	MG/KG	SW6010B
Nickel	5.70	0.352	MG/KG	SW6010B
Potassium	126	35.2	MG/KG	SW6010B
Sodium	45.8	21.1	MG/KG	SW6010B
Thallium	0.326 J	0.704	MG/KG	SW6010B
Vanadium	44.0	0.352	MG/KG	SW6010B
Zinc	110	0.704	MG/KG	SW6010B
Mercury	0.0186	0.0186	MG/KG	SW7471A
Anthracene	169 J	260	UG/KG	SW8270D
Benzo(a)anthracene	767	260	UG/KG	SW8270D
Benzo(a)pyrene	549	260	UG/KG	SW8270D
Benzo(b)fluoranthene	882	260	UG/KG	SW8270D
Benzo(g,h,i)perylene	324	260	UG/KG	SW8270D
Benzo(k)fluoranthene	660	260	UG/KG	SW8270D
Carbazole	142 J	260	UG/KG	SW8270D
Chrysene	815	260	UG/KG	SW8270D
Dibenzo(a,h)anthracene	124 J	260	UG/KG	SW8270D
Fluoranthene	1580	260	UG/KG	SW8270D
Indeno(1,2,3-cd)pyrene	292	260	UG/KG	SW8270D
Phenanthrene	730	260	UG/KG	SW8270D
Pyrene	1200	260	UG/KG	SW8270D
1-Methylnaphthalene	2.10 J	3.2	UG/KG	SW8270D-SIM
2-Methylnaphthalene	4.10	3.2	UG/KG	SW8270D-SIM
Acenaphthene	2.30 J	3.2	UG/KG	SW8270D-SIM
Acenaphthylene	5.40	3.2	UG/KG	SW8270D-SIM
Anthracene	7.60	3.2	UG/KG	SW8270D-SIM
Benzo(a)anthracene	36.4	3.2	UG/KG	SW8270D-SIM
Benzo(a)pyrene	32.2	3.2	UG/KG	SW8270D-SIM

EXECUTIVE SUMMARY - Detection Highlights

3505843

Benzo(b)fluoranthene	53.5	3.2	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	21.5	3.2	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	15.0	3.2	UG/KG	SW8270D-SIM
Chrysene	33.6	3.2	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	7.40	3.2	UG/KG	SW8270D-SIM
Fluoranthene	54.1	3.2	UG/KG	SW8270D-SIM
Fluorene	4.10	3.2	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	19.1	3.2	UG/KG	SW8270D-SIM
Naphthalene	13.9	3.2	UG/KG	SW8270D-SIM
Phenanthrene	20.7	3.2	UG/KG	SW8270D-SIM
Pyrene	45.8	3.2	UG/KG	SW8270D-SIM
TOC	1640	449	MG/KG	SW9060

SAMPLE ID: EPAFMC-SD-14DL1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Iron	32500	17.6	MG/KG	SW6010B
Manganese	787	1.76	MG/KG	SW6010B

SAMPLE ID: EPAFMC-SD-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Hardness	101000		MG/KG	A2340B
Aluminum	5890	7.74	MG/KG	SW6010B
Antimony	0.550 J	0.774	MG/KG	SW6010B
Arsenic	14.4	0.774	MG/KG	SW6010B
Barium	67.7	0.387	MG/KG	SW6010B
Beryllium	0.587	0.387	MG/KG	SW6010B
Cadmium	1.46	0.387	MG/KG	SW6010B
Chromium	63.2	0.387	MG/KG	SW6010B
Cobalt	7.69	0.387	MG/KG	SW6010B
Copper	11.9	0.387	MG/KG	SW6010B
Lead	18.4	0.619	MG/KG	SW6010B
Magnesium	9660	7.74	MG/KG	SW6010B
Nickel	16.6	0.387	MG/KG	SW6010B
Potassium	283	38.7	MG/KG	SW6010B
Sodium	227	23.2	MG/KG	SW6010B

EXECUTIVE SUMMARY - Detection Highlights

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Thallium	0.271 J	0.774	MG/KG	SW6010B
Vanadium	50.5	0.387	MG/KG	SW6010B
Zinc	146	0.774	MG/KG	SW6010B
Mercury	0.0165	0.0143	MG/KG	SW7471A
1-Methylnaphthalene	1.90 J	3.2	UG/KG	SW8270D-SIM
2-Methylnaphthalene	4.20	3.2	UG/KG	SW8270D-SIM
Acenaphthene	1.40 J	3.2	UG/KG	SW8270D-SIM
Acenaphthylene	4.00	3.2	UG/KG	SW8270D-SIM
Anthracene	4.80	3.2	UG/KG	SW8270D-SIM
Benzo(a)anthracene	28.1	3.2	UG/KG	SW8270D-SIM
Benzo(a)pyrene	30.3	3.2	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	50.0	3.2	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	25.9	3.2	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	15.2	3.2	UG/KG	SW8270D-SIM
Chrysene	30.3	3.2	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	7.00	3.2	UG/KG	SW8270D-SIM
Fluoranthene	51.6	3.2	UG/KG	SW8270D-SIM
Fluorene	2.10 J	3.2	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	22.1	3.2	UG/KG	SW8270D-SIM
Naphthalene	8.80	3.2	UG/KG	SW8270D-SIM
Phenanthrene	19.1	3.2	UG/KG	SW8270D-SIM
Pyrene	43.7	3.2	UG/KG	SW8270D-SIM
TOC	14300	470	MG/KG	SW9060

SAMPLE ID: EPAFMC-SD-15DL1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Calcium	24200	38.7	MG/KG	SW6010B
Iron	35000	19.3	MG/KG	SW6010B
Manganese	851	1.93	MG/KG	SW6010B

SAMPLE ID: EPAFMC-SD-16

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Hardness	86800		MG/KG	A2340B
Aluminum	4120	8.08	MG/KG	SW6010B
Antimony	4.95	0.808	MG/KG	SW6010B

EXECUTIVE SUMMARY - Detection Highlights

3505843

Arsenic	12.4	0.808	MG/KG	SW6010B
Barium	56.0	0.404	MG/KG	SW6010B
Beryllium	0.389 J	0.404	MG/KG	SW6010B
Calcium	20000	8.08	MG/KG	SW6010B
Chromium	54.4	0.404	MG/KG	SW6010B
Cobalt	10.4	0.404	MG/KG	SW6010B
Copper	12.3	0.404	MG/KG	SW6010B
Iron	24300	4.04	MG/KG	SW6010B
Lead	42.7	0.646	MG/KG	SW6010B
Magnesium	8940	8.08	MG/KG	SW6010B
Nickel	14.1	0.404	MG/KG	SW6010B
Potassium	238	40.4	MG/KG	SW6010B
Sodium	93.4	24.2	MG/KG	SW6010B
Thallium	0.500 J	0.808	MG/KG	SW6010B
Vanadium	34.9	0.404	MG/KG	SW6010B
Zinc	121	0.808	MG/KG	SW6010B
Mercury	0.0193	0.0156	MG/KG	SW7471A
2-Methylnaphthalene	81.5 J	270	UG/KG	SW8270D
Acenaphthylene	86.3 J	270	UG/KG	SW8270D
Anthracene	152 J	270	UG/KG	SW8270D
Benzo(a)anthracene	414	270	UG/KG	SW8270D
Benzo(a)pyrene	303	270	UG/KG	SW8270D
Benzo(b)fluoranthene	410	270	UG/KG	SW8270D
Benzo(g,h,i)perylene	164 J	270	UG/KG	SW8270D
Benzo(k)fluoranthene	329	270	UG/KG	SW8270D
Carbazole	79.3 J	270	UG/KG	SW8270D
Chrysene	438	260	UG/KG	SW8270D
Dibenzofuran	77.6 J	270	UG/KG	SW8270D
Fluoranthene	710	270	UG/KG	SW8270D
Fluorene	66.6 J	270	UG/KG	SW8270D
Indeno(1,2,3-cd)pyrene	145 J	270	UG/KG	SW8270D
Naphthalene	431	270	UG/KG	SW8270D
Phenanthrene	314	270	UG/KG	SW8270D
Pyrene	610	270	UG/KG	SW8270D
1-Methylnaphthalene	48.9	3.2	UG/KG	SW8270D-SIM
2-Methylnaphthalene	116	3.2	UG/KG	SW8270D-SIM
Acenaphthene	40.1	3.2	UG/KG	SW8270D-SIM
Acenaphthylene	94.4	3.2	UG/KG	SW8270D-SIM
Anthracene	200	3.2	UG/KG	SW8270D-SIM
Benzo(a)anthracene	398	3.2	UG/KG	SW8270D-SIM
Benzo(a)pyrene	343	3.2	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	480	3.2	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	204	3.2	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	166	3.2	UG/KG	SW8270D-SIM

EXECUTIVE SUMMARY - Detection Highlights

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Chrysene	344	3.2	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	73.2	3.2	UG/KG	SW8270D-SIM
Fluorene	98.7	3.2	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	196	3.2	UG/KG	SW8270D-SIM
Phenanthrene	359	3.2	UG/KG	SW8270D-SIM
TOC	6240	422	MG/KG	SW9060

SAMPLE ID: EPAFMC-SD-16DL1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Manganese	703	2.02	MG/KG	SW6010B
Fluoranthene	758	16	UG/KG	SW8270D-SIM
Naphthalene	578	16	UG/KG	SW8270D-SIM
Pyrene	565	16	UG/KG	SW8270D-SIM

SAMPLE ID: EPAFMC-SW-01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Hardness	195	1.00	mg/L	A2340B
Aluminum	64.5 J	100	UG/L	SW6010B
Arsenic	7.06 J	10.0	UG/L	SW6010B
Barium	32.0	10.0	UG/L	SW6010B
Calcium	44300	100	UG/L	SW6010B
Chromium	0.901 J	10.0	UG/L	SW6010B
Iron	102	50.0	UG/L	SW6010B
Magnesium	20400	100	UG/L	SW6010B
Manganese	33.9	10.0	UG/L	SW6010B
Potassium	1130	500	UG/L	SW6010B
Sodium	26000	300	UG/L	SW6010B
Vanadium	0.565 J	10.0	UG/L	SW6010B
Zinc	4.23 J	20.0	UG/L	SW6010B
Thallium	0.507 J	2.00	UG/L	SW7841

EXECUTIVE SUMMARY - Detection Highlights

3505843

SAMPLE ID: EPAFMC-SW-03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Hardness	203	1.00	mg/L	A2340B
Aluminum	57.3 J	100	UG/L	SW6010B
Barium	33.9	10.0	UG/L	SW6010B
Calcium	46200	100	UG/L	SW6010B
Chromium	0.813 J	10.0	UG/L	SW6010B
Iron	94.8	50.0	UG/L	SW6010B
Magnesium	21400	100	UG/L	SW6010B
Manganese	37.7	10.0	UG/L	SW6010B
Potassium	1220	500	UG/L	SW6010B
Selenium	12.9 J	20.0	UG/L	SW6010B
Sodium	27200	300	UG/L	SW6010B
Vanadium	0.546 J	10.0	UG/L	SW6010B
Zinc	4.44 J	20.0	UG/L	SW6010B

DRAFT

Organics

Organic Data Qualifiers

- U** Indicates the analyte was analyzed for but not detected. The number adjacent to the "U" qualifier indicates the reporting limit for that analyte. The reporting limit can vary from sample to sample depending on dilution factors or the percent moisture adjustment when indicated.
- J** Indicates an estimated value. It is used when the data indicates the presence of an analyte above the method detection limit (MDL) yet lower than the reporting limit.
- B** Indicates the analyte was found in the associated blank as well as in the sample. The notation indicates possible contamination of the sample.
- E** Indicates the value reported is above the highest calibration standard for that analyte. The sample should be analyzed at an appropriate dilution. "E" qualified values are estimations and the diluted result may be reported on another Form 1.
- D** Indicates the analyte has been identified in a dilution reanalysis. "D" qualifiers are used for samples that have been analyzed at a lesser dilution than required for accurate quantitation.
- C** The "C" qualifier indicates the presence of this analyte has been confirmed by GC/MS analysis.
- P** This qualifier is used for pesticide / Aroclor target analytes where there is greater than 25% difference for the detected concentration between the two GC columns.
- N** This qualifier indicates presumptive evidence of an analyte. This qualifier is only used for tentatively identified compounds (TIC), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the "N" qualifier is not used.
- A** This qualifier indicates that a TIC is a suspected aldol-condensation product.
- X** Data flagged as rejected by analyst utilizing analytical judgement.

Organic Sample ID Qualifiers

The qualifiers that may be applied to the lab sample ID and instrument sample ID for organic analysis are defined below:

- DL** Diluted reanalysis. Indicates that the results of the original analysis of the sample contained compounds that exceeded the calibration range. The sample was diluted and reanalyzed. May be followed by a digit to indicate multiple dilutions of the sample. The results of more than one diluted reanalysis may be reported.
- R** Reanalysis. The extract was reanalyzed without re-extraction. The "R" is not used if the sample was also re-extracted. May be followed by a digit to indicate multiple reanalysis of the sample at the same dilution.
- RE** Re-extracted. The extract was reanalyzed with re-extraction. May be followed by a digit to indicate multiple re-extraction of the same sample at the same dilution.
- MS** Matrix spike (may be followed by a digit to indicate multiple matrix within a sample set).
- SD** Matrix spike duplicate (may be followed by a digit to indicate multiple matrix spike duplicate within a sample set).

DRAFT

8270 SIM Semi-Volatile Organics

**CASE NARRATIVE
GC/MS SEMIVOLATILE ORGANICS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

EPA SW846 8270D

IV. PREPARATION

Soil samples were prepared by SW846 EPA 3545 for 8270 semi-volatile analysis.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

All acceptance criteria were met.

C. Surrogates:

All acceptance criteria were met.

D. Spikes:

1. Laboratory Control Spikes (LCS)

All acceptance criteria were met

2. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

A client requested MS/SD set was analyzed. Please note there was considerable difference between the results of the parent, MS and MSD. All were analyzed full; however the MSD was over the calibration for many analytes, could not be reported full, and required a 10X dilution. This difference in concentration is not uncommon in soils, due to non-homogeneity.

All percent recovery and relative percent difference (RPD) criteria were met with the exception of:

**CASE NARRATIVE
GC/MS SEMIVOLATILE ORGANICS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

MS - EPAFMC-SD-07MS was analyzed with the soil samples extracted on 05/04/12. The following analytes were recovered below criteria: 1-Methylnaphthalene at 61.5 % with criteria of (71-132) and the following analyte(s) were recovered above criteria: Acenaphthylene at 132 % with criteria of (54-115), Benzo(a)anthracene at 231 % with criteria of (53-119), Benzo(a)pyrene at 177 % with criteria of (20-120), Benzo(b)fluoranthene at 242 % with criteria of (50-171), Chrysene at 188 % with criteria of (34-140), Fluoranthene at 262 % with criteria of (55-132), Indeno(1,2,3-cd)pyrene at 135 % with criteria of (19-122), Phenanthrene at 154 % with criteria of (54-112), Pyrene at 192 % with criteria of (55-123).

SD - EPAFMC-SD-07SD was analyzed with the soil samples extracted on 05/04/12. The following analytes were recovered above criteria: Acenaphthene at 475 % with criteria of (57-119), Acenaphthylene at 555 % with criteria of (54-115), Anthracene at 4436 % with criteria of (40-138), Benzo(a)anthracene at 8342 % with criteria of (53-119), Benzo(a)pyrene at 6072 % with criteria of (20-120), Benzo(b)fluoranthene at 8278 % with criteria of (50-171), Benzo(g,h,i)perylene at 3198 % with criteria of (50-150), Benzo(k)fluoranthene at 2459 % with criteria of (32-158), Chrysene at 6635 % with criteria of (34-140), Dibenzo(a,h)anthracene at 1205 % with criteria of (41-114), Fluoranthene at 15445 % with criteria of (55-132), Fluorene at 861 % with criteria of (59-118), Indeno(1,2,3-cd)pyrene at 3095 % with criteria of (19-122), Naphthalene at 204 % with criteria of (59-111), Phenanthrene at 6943 % with criteria of (54-112), Pyrene at 10662 % with criteria of (55-123). The following analytes exceeded RPD criteria: 1-Methylnaphthalene at 34.5 % with criteria of (30), 2-Methylnaphthalene at 33.7 % with criteria of (30), Acenaphthene at 129.4 % with criteria of (30), Acenaphthylene at 96.3 % with criteria of (30), Anthracene at 173.3 % with criteria of (30), Benzo(a)anthracene at 162.5 % with criteria of (30), Benzo(a)pyrene at 159.2 % with criteria of (30), Benzo(b)fluoranthene at 158.6 % with criteria of (30), Benzo(g,h,i)perylene at 153.7 % with criteria of (30), Benzo(k)fluoranthene at 145.5 % with criteria of (30), Chrysene at 156.7 % with criteria of (30), Dibenzo(a,h)anthracene at 147.3 % with criteria of (30), Fluoranthene at 167.6 % with criteria of (30), Fluorene at 131.6 % with criteria of (30), Indeno(1,2,3-cd)pyrene at 154.1 % with criteria of (30), Naphthalene at 37.7 % with criteria of (30), Phenanthrene at 169 % with criteria of (30), Pyrene at 165.6 % with criteria of (30).

No further action was taken due to the non-homogeneity of the sample matrix. Samples coded accordingly.

E. Internal Standards:

All acceptance criteria were met.

F. Samples:

Sample analysis proceeded normally.

**CASE NARRATIVE
GC/MS SEMIVOLATILE ORGANICS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

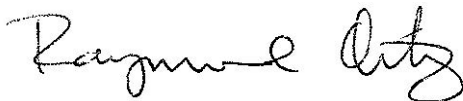
Client: OTIE

Sample EPAFMC-SD-12 required a 5X dilution due to high concentration of the following analytes: Benzo(b)fluoranthene, Fluoranthene, Naphthalene, Pyrene. Both full and diluted runs are reported.

Sample EPAFMC-SD-13 required a 5X dilution due to high concentration of the following analytes: Benzo(a)anthracene, Benzo(b)fluoranthene, Fluoranthene, Pyrene. Both full and diluted runs are reported.

Sample EPAFMC-SD-16 required a 5X dilution due to high concentration of the following analytes: Fluoranthene, Naphthalene, Pyrene. Both full and diluted runs are reported.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.



SIGNED:

DATE: 05/09/2012

SEMI-VOLATILE ORGANIC CROSS REFERENCE TABLE

DRAFT

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No. SAS No: SDG No.: 3505843
Method: 8270 SIM

EPA Sample No	Lab Sample ID
<u>EPAFMC-SD-07</u>	<u>350584301</u>
<u>EPAFMC-SD-08</u>	<u>350584304</u>
<u>EPAFMC-SD-09</u>	<u>350584305</u>
<u>EPAFMC-SD-10</u>	<u>350584306</u>
<u>EPAFMC-SD-11</u>	<u>350584307</u>
<u>EPAFMC-SD-12</u>	<u>350584308</u>
<u>EPAFMC-SD-12DL1</u>	<u>350584308DL1</u>
<u>EPAFMC-SD-13</u>	<u>350584309</u>
<u>EPAFMC-SD-13DL1</u>	<u>350584309DL1</u>
<u>EPAFMC-SD-14</u>	<u>350584310</u>
<u>EPAFMC-SD-15</u>	<u>350584311</u>
<u>EPAFMC-SD-16</u>	<u>350584312</u>
<u>EPAFMC-SD-16DL1</u>	<u>350584312DL1</u>

DRAFT

8270 SIM Sample Data

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-07

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584301 Lab File ID: 84301.D

Sample wt/vol: 25.3 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 0932

PercentSolids: 75.5 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC06 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	8		1.4	3.5
91-57-6	2-Methylnaphthalene	21		1.4	3.5
83-32-9	Acenaphthene	9		1.4	3.5
208-96-8	Acenaphthylene	26		1.4	3.5
120-12-7	Anthracene	53.2		1.4	3.5
56-55-3	Benzo(a)anthracene	186		1.5	3.5
50-32-8	Benzo(a)pyrene	153		1.9	3.5
205-99-2	Benzo(b)fluoranthene	213		2	3.5
191-24-2	Benzo(g,h,i)perylene	90.9		3.2	3.5
207-08-9	Benzo(k)fluoranthene	89.3		2.2	3.5
218-01-9	Chrysene	185		1.4	3.5
53-70-3	Dibenzo(a,h)anthracene	29.2		2.7	3.5
206-44-0	Fluoranthene	318		1.4	3.5
86-73-7	Fluorene	23.6		1.4	3.5
193-39-5	Indeno(1,2,3-cd)pyrene	81		3.1	3.5
91-20-3	Naphthalene	58.4		1.5	3.5
85-01-8	Phenanthrene	124		1.4	3.5
129-00-0	Pyrene	236		1.4	3.5

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-08

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584304 Lab File ID: 84304.D

Sample wt/vol: 25.3 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 1357

PercentSolids: 97.1 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC07 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	4.5		1.1	2.7
91-57-6	2-Methylnaphthalene	9.6		1.1	2.7
83-32-9	Acenaphthene	25.2		1.1	2.7
208-96-8	Acenaphthylene	52.8		1.1	2.7
120-12-7	Anthracene	43.1		1.1	2.7
56-55-3	Benzo(a)anthracene	119		1.1	2.7
50-32-8	Benzo(a)pyrene	95.7		1.5	2.7
205-99-2	Benzo(b)fluoranthene	154		1.5	2.7
191-24-2	Benzo(g,h,i)perylene	61.4		2.5	2.7
207-08-9	Benzo(k)fluoranthene	44.9		1.7	2.7
218-01-9	Chrysene	106		1	2.7
53-70-3	Dibenzo(a,h)anthracene	18.7		2.1	2.7
206-44-0	Fluoranthene	202		1.1	2.7
86-73-7	Fluorene	14.4		1.1	2.7
193-39-5	Indeno(1,2,3-cd)pyrene	54.1		2.4	2.7
91-20-3	Naphthalene	29.5		1.1	2.7
85-01-8	Phenanthrene	81		1.1	2.7
129-00-0	Pyrene	148		1.1	2.7

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-09

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584305 Lab File ID: 84305.D

Sample wt/vol: 25.71 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 1430

PercentSolids: 77.7 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC08 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	2.8	J	1.3	3.3
91-57-6	2-Methylnaphthalene	6.4		1.3	3.3
83-32-9	Acenaphthene	3.4		1.3	3.3
208-96-8	Acenaphthylene	17.6		1.3	3.3
120-12-7	Anthracene	29.8		1.3	3.3
56-55-3	Benzo(a)anthracene	148		1.4	3.3
50-32-8	Benzo(a)pyrene	114		1.8	3.3
205-99-2	Benzo(b)fluoranthene	160		1.9	3.3
191-24-2	Benzo(g,h,i)perylene	62.3		3.1	3.3
207-08-9	Benzo(k)fluoranthene	51.6		2.1	3.3
218-01-9	Chrysene	124		1.3	3.3
53-70-3	Dibenzo(a,h)anthracene	23.7		2.6	3.3
206-44-0	Fluoranthene	199		1.3	3.3
86-73-7	Fluorene	7.5		1.3	3.3
193-39-5	Indeno(1,2,3-cd)pyrene	59.4		3	3.3
91-20-3	Naphthalene	26		1.4	3.3
85-01-8	Phenanthrene	50.1		1.3	3.3
129-00-0	Pyrene	230		1.3	3.3

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-10

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584306 Lab File ID: 84306.D

Sample wt/vol: 25.69 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 1454

PercentSolids: 79.7 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC09 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	4.6		1.3	3.2
91-57-6	2-Methylnaphthalene	11.3		1.3	3.2
83-32-9	Acenaphthene	4.2		1.3	3.2
208-96-8	Acenaphthylene	39.9		1.3	3.2
120-12-7	Anthracene	104		1.3	3.2
56-55-3	Benzo(a)anthracene	298		1.4	3.2
50-32-8	Benzo(a)pyrene	208		1.8	3.2
205-99-2	Benzo(b)fluoranthene	298		1.8	3.2
191-24-2	Benzo(g,h,i)perylene	111		3	3.2
207-08-9	Benzo(k)fluoranthene	107		2	3.2
218-01-9	Chrysene	297		1.3	3.2
53-70-3	Dibenzo(a,h)anthracene	46.3		2.5	3.2
206-44-0	Fluoranthene	423		1.3	3.2
86-73-7	Fluorene	16.6		1.3	3.2
193-39-5	Indeno(1,2,3-cd)pyrene	110		2.9	3.2
91-20-3	Naphthalene	42.8		1.4	3.2
85-01-8	Phenanthrene	106		1.3	3.2
129-00-0	Pyrene	313		1.3	3.2

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-11

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584307 Lab File ID: 84307.D

Sample wt/vol: 25.15 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 1543

PercentSolids: 78.4 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC10 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	5.3		1.3	3.4
91-57-6	2-Methylnaphthalene	9.9		1.3	3.4
83-32-9	Acenaphthene	7.7		1.3	3.4
208-96-8	Acenaphthylene	20.8		1.3	3.4
120-12-7	Anthracene	35.5		1.3	3.4
56-55-3	Benzo(a)anthracene	107		1.4	3.4
50-32-8	Benzo(a)pyrene	92.4		1.8	3.4
205-99-2	Benzo(b)fluoranthene	135		1.9	3.4
191-24-2	Benzo(g,h,i)perylene	55.8		3.1	3.4
207-08-9	Benzo(k)fluoranthene	46		2.1	3.4
218-01-9	Chrysene	88.9		1.3	3.4
53-70-3	Dibenzo(a,h)anthracene	19.7		2.6	3.4
206-44-0	Fluoranthene	185		1.3	3.4
86-73-7	Fluorene	15.3		1.3	3.4
193-39-5	Indeno(1,2,3-cd)pyrene	51.8		3	3.4
91-20-3	Naphthalene	69		1.4	3.4
85-01-8	Phenanthrene	60.8		1.3	3.4
129-00-0	Pyrene	133		1.3	3.4

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-12

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584308 Lab File ID: 84308.D

Sample wt/vol: 25.29 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 1607

PercentSolids: 84.4 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC11 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	65.8		1.2	3.1
91-57-6	2-Methylnaphthalene	162		1.2	3.1
83-32-9	Acenaphthene	36.1		1.2	3.1
208-96-8	Acenaphthylene	120		1.2	3.1
120-12-7	Anthracene	270		1.2	3.1
56-55-3	Benzo(a)anthracene	423		1.3	3.1
50-32-8	Benzo(a)pyrene	361		1.7	3.1
205-99-2	Benzo(b)fluoranthene	519	E	1.8	3.1
191-24-2	Benzo(g,h,i)perylene	215		2.9	3.1
207-08-9	Benzo(k)fluoranthene	179		2	3.1
218-01-9	Chrysene	371		1.2	3.1
53-70-3	Dibenzo(a,h)anthracene	74.7		2.4	3.1
206-44-0	Fluoranthene	782	E	1.2	3.1
86-73-7	Fluorene	116		1.2	3.1
193-39-5	Indeno(1,2,3-cd)pyrene	206		2.8	3.1
91-20-3	Naphthalene	648	E	1.3	3.1
85-01-8	Phenanthrene	422		1.2	3.1
129-00-0	Pyrene	473	E	1.2	3.1

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-12DL1

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584308DL1 Lab File ID: 84308D5.D

Sample wt/vol: 25.29 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/09/12 Time: 0952

PercentSolids: 84.4 decanted : _____ Dilution Factor: 5

Extraction: OTHER Station ID: EPAFMC11 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	71.4		6.2	15.6
91-57-6	2-Methylnaphthalene	152		6.2	15.6
83-32-9	Acenaphthene	36.9		6.2	15.6
208-96-8	Acenaphthylene	127		6.2	15.6
120-12-7	Anthracene	258		6.2	15.6
56-55-3	Benzo(a)anthracene	466		6.6	15.6
50-32-8	Benzo(a)pyrene	357		8.4	15.6
205-99-2	Benzo(b)fluoranthene	544		8.9	15.6
191-24-2	Benzo(g,h,i)perylene	202		14.5	15.6
207-08-9	Benzo(k)fluoranthene	153		9.8	15.6
218-01-9	Chrysene	408		6.1	15.6
53-70-3	Dibenzo(a,h)anthracene	70.6		12.2	15.6
206-44-0	Fluoranthene	764		6.2	15.6
86-73-7	Fluorene	111		6.2	15.6
193-39-5	Indeno(1,2,3-cd)pyrene	193		14	15.6
91-20-3	Naphthalene	666		6.6	15.6
85-01-8	Phenanthrene	412		6.2	15.6
129-00-0	Pyrene	532		6.2	15.6

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-13

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584309 Lab File ID: 84309.D

Sample wt/vol: 25.39 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 1631

PercentSolids: 78 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC12 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	16.2		1.3	3.4
91-57-6	2-Methylnaphthalene	35		1.3	3.4
83-32-9	Acenaphthene	22.8		1.3	3.4
208-96-8	Acenaphthylene	68.7		1.3	3.4
120-12-7	Anthracene	143		1.3	3.4
56-55-3	Benzo(a)anthracene	518	E	1.4	3.4
50-32-8	Benzo(a)pyrene	407		1.8	3.4
205-99-2	Benzo(b)fluoranthene	595	E	1.9	3.4
191-24-2	Benzo(g,h,i)perylene	249		3.1	3.4
207-08-9	Benzo(k)fluoranthene	199		2.1	3.4
218-01-9	Chrysene	452		1.3	3.4
53-70-3	Dibenzo(a,h)anthracene	84.4		2.6	3.4
206-44-0	Fluoranthene	827	E	1.3	3.4
86-73-7	Fluorene	35		1.3	3.4
193-39-5	Indeno(1,2,3-cd)pyrene	231		3	3.4
91-20-3	Naphthalene	120		1.4	3.4
85-01-8	Phenanthrene	276		1.3	3.4
129-00-0	Pyrene	610	E	1.3	3.4

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-13DL1

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584309DL1 Lab File ID: 84309D5.D

Sample wt/vol: 25.39 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/09/12 Time: 1016

PercentSolids: 78 decanted : _____ Dilution Factor: 5

Extraction: OTHER Station ID: EPAFMC12 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	20		6.7	16.8
91-57-6	2-Methylnaphthalene	38.1		6.7	16.8
83-32-9	Acenaphthene	26		6.7	16.8
208-96-8	Acenaphthylene	77.5		6.7	16.8
120-12-7	Anthracene	170		6.7	16.8
56-55-3	Benzo(a)anthracene	582		7.1	16.8
50-32-8	Benzo(a)pyrene	459		9.1	16.8
205-99-2	Benzo(b)fluoranthene	672		9.6	16.8
191-24-2	Benzo(g,h,i)perylene	270		15.6	16.8
207-08-9	Benzo(k)fluoranthene	272		10.6	16.8
218-01-9	Chrysene	520		6.6	16.8
53-70-3	Dibenzo(a,h)anthracene	85.9		13.1	16.8
206-44-0	Fluoranthene	962		6.7	16.8
86-73-7	Fluorene	40.3		6.7	16.8
193-39-5	Indeno(1,2,3-cd)pyrene	254		15.1	16.8
91-20-3	Naphthalene	135		7.1	16.8
85-01-8	Phenanthrene	318		6.7	16.8
129-00-0	Pyrene	698		6.7	16.8

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-14

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584310 Lab File ID: 84310.D

Sample wt/vol: 25.82 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 1655

PercentSolids: 80.6 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC13 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	2.1	J	1.3	3.2
91-57-6	2-Methylnaphthalene	4.1		1.3	3.2
83-32-9	Acenaphthene	2.3	J	1.3	3.2
208-96-8	Acenaphthylene	5.4		1.3	3.2
120-12-7	Anthracene	7.6		1.3	3.2
56-55-3	Benzo(a)anthracene	36.4		1.3	3.2
50-32-8	Benzo(a)pyrene	32.2		1.7	3.2
205-99-2	Benzo(b)fluoranthene	53.5		1.8	3.2
191-24-2	Benzo(g,h,i)perylene	21.5		3	3.2
207-08-9	Benzo(k)fluoranthene	15		2	3.2
218-01-9	Chrysene	33.6		1.2	3.2
53-70-3	Dibenzo(a,h)anthracene	7.4		2.5	3.2
206-44-0	Fluoranthene	54.1		1.3	3.2
86-73-7	Fluorene	4.1		1.3	3.2
193-39-5	Indeno(1,2,3-cd)pyrene	19.1		2.9	3.2
91-20-3	Naphthalene	13.9		1.3	3.2
85-01-8	Phenanthrene	20.7		1.3	3.2
129-00-0	Pyrene	45.8		1.3	3.2

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-15

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584311 Lab File ID: 84311.D

Sample wt/vol: 25.09 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 1719

PercentSolids: 82.2 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC14 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	1.9	J	1.3	3.2
91-57-6	2-Methylnaphthalene	4.2		1.3	3.2
83-32-9	Acenaphthene	1.4	J	1.3	3.2
208-96-8	Acenaphthylene	4		1.3	3.2
120-12-7	Anthracene	4.8		1.3	3.2
56-55-3	Benzo(a)anthracene	28.1		1.4	3.2
50-32-8	Benzo(a)pyrene	30.3		1.7	3.2
205-99-2	Benzo(b)fluoranthene	50		1.8	3.2
191-24-2	Benzo(g,h,i)perylene	25.9		3	3.2
207-08-9	Benzo(k)fluoranthene	15.2		2	3.2
218-01-9	Chrysene	30.3		1.3	3.2
53-70-3	Dibenzo(a,h)anthracene	7		2.5	3.2
206-44-0	Fluoranthene	51.6		1.3	3.2
86-73-7	Fluorene	2.1	J	1.3	3.2
193-39-5	Indeno(1,2,3-cd)pyrene	22.1		2.9	3.2
91-20-3	Naphthalene	8.8		1.4	3.2
85-01-8	Phenanthrene	19.1		1.3	3.2
129-00-0	Pyrene	43.7		1.3	3.2

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-16

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584312 Lab File ID: 84312.D

Sample wt/vol: 25.57 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/08/12 Time: 1744

PercentSolids: 80.1 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC11 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	48.9		1.3	3.2
91-57-6	2-Methylnaphthalene	116		1.3	3.2
83-32-9	Acenaphthene	40.1		1.3	3.2
208-96-8	Acenaphthylene	94.4		1.3	3.2
120-12-7	Anthracene	200		1.3	3.2
56-55-3	Benzo(a)anthracene	398		1.4	3.2
50-32-8	Benzo(a)pyrene	343		1.8	3.2
205-99-2	Benzo(b)fluoranthene	480		1.8	3.2
191-24-2	Benzo(g,h,i)perylene	204		3	3.2
207-08-9	Benzo(k)fluoranthene	166		2	3.2
218-01-9	Chrysene	344		1.3	3.2
53-70-3	Dibenzo(a,h)anthracene	73.2		2.5	3.2
206-44-0	Fluoranthene	678	E	1.3	3.2
86-73-7	Fluorene	98.7		1.3	3.2
193-39-5	Indeno(1,2,3-cd)pyrene	196		2.9	3.2
91-20-3	Naphthalene	502	E	1.4	3.2
85-01-8	Phenanthrene	359		1.3	3.2
129-00-0	Pyrene	502	E	1.3	3.2

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-16DL1

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584312DL1 Lab File ID: 84312D5.D

Sample wt/vol: 25.57 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/09/12 Time: 1040

PercentSolids: 80.1 decanted : _____ Dilution Factor: 5

Extraction: OTHER Station ID: EPAFMC11 Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	53.4		6.5	16.2
91-57-6	2-Methylnaphthalene	63.9		6.5	16.2
83-32-9	Acenaphthene	43.6		6.5	16.2
208-96-8	Acenaphthylene	101		6.5	16.2
120-12-7	Anthracene	238		6.5	16.2
56-55-3	Benzo(a)anthracene	439		6.8	16.2
50-32-8	Benzo(a)pyrene	395		8.8	16.2
205-99-2	Benzo(b)fluoranthene	544		9.3	16.2
191-24-2	Benzo(g,h,i)perylene	218		15.1	16.2
207-08-9	Benzo(k)fluoranthene	182		10.2	16.2
218-01-9	Chrysene	384		6.3	16.2
53-70-3	Dibenzo(a,h)anthracene	75.6		12.7	16.2
206-44-0	Fluoranthene	758		6.5	16.2
86-73-7	Fluorene	103		6.5	16.2
193-39-5	Indeno(1,2,3-cd)pyrene	211		14.6	16.2
91-20-3	Naphthalene	578		6.8	16.2
85-01-8	Phenanthrene	401		6.5	16.2
129-00-0	Pyrene	565		6.5	16.2

DRAFT

8270 SIM QC Summary

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
129055MB

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392

Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 129055MB Lab File ID: 9311MB.D

Sample wt/vol: 20.21 Units: G Date Received: 05/04/12

Concentrated Extract Volume: 1 Date Extracted: 05/04/12

Level:(low/med) LOW Date Analyzed: 05/07/12 Time: 1348

PercentSolids: 100 decanted : (_____) Dilution Factor: 1

Extraction: OTHER Station ID: _____ Method: 8270 SIM

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	1.3	U	1.3	3.3
91-57-6	2-Methylnaphthalene	1.3	U	1.3	3.3
83-32-9	Acenaphthene	1.3	U	1.3	3.3
208-96-8	Acenaphthylene	1.3	U	1.3	3.3
120-12-7	Anthracene	1.3	U	1.3	3.3
56-55-3	Benzo(a)anthracene	1.4	U	1.4	3.3
50-32-8	Benzo(a)pyrene	1.8	U	1.8	3.3
205-99-2	Benzo(b)fluoranthene	1.9	U	1.9	3.3
191-24-2	Benzo(g,h,i)perylene	3.1	U	3.1	3.3
207-08-9	Benzo(k)fluoranthene	2.1	U	2.1	3.3
218-01-9	Chrysene	1.3	U	1.3	3.3
53-70-3	Dibenzo(a,h)anthracene	2.6	U	2.6	3.3
206-44-0	Fluoranthene	1.3	U	1.3	3.3
86-73-7	Fluorene	1.3	U	1.3	3.3
193-39-5	Indeno(1,2,3-cd)pyrene	3	U	3	3.3
91-20-3	Naphthalene	1.4	U	1.4	3.3
85-01-8	Phenanthrene	1.3	U	1.3	3.3
129-00-0	Pyrene	1.3	U	1.3	3.3

SOIL SEMI-VOLATILE ORGANIC SURROGATE RECOVERY

Lab Name: Spectrum Analytical, Inc.Contract: OTIE- Five Mile Creek / Site 1Lab Code : PEL

Case No. _____

SAS No: _____

SDG NO.: 3505843Column(1): HPMS-5ID: 0.25 (mm)

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
129055MB	88.7	99.2					0
129056LCS	80.9	83.3					0
EPAFMC-SD-07	71.4	69.8					0
EPAFMC-SD-07MS	68.8	59.2					0
EPAFMC-SD-07SD	86.3	74.9					0
EPAFMC-SD-08	69.6	77.0					0
EPAFMC-SD-09	75.2	70.8					0
EPAFMC-SD-10	68.9	100.0					0
EPAFMC-SD-11	75.2	130.0					0
EPAFMC-SD-12	71.8	68.4					0
EPAFMC-SD-12DL1	77.8	71.8					0
EPAFMC-SD-13	71.4	61.9					0
EPAFMC-SD-13DL1	77.8	70.2					0
EPAFMC-SD-14	57.9	50.8					0
EPAFMC-SD-15	52.9	51.2					0
EPAFMC-SD-16	71.7	65.6					0
EPAFMC-SD-16DL1	75.8	74.2					0

Control Limits

S1 = p-Terphenyl-d14

43 - 145

S2 = 2-Fluorobiphenyl

43 - 145

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

Control limit source: (lab/method) METHOD

Form II

SEMI-VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1 129056LCS

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	LCS CONCENTRATION ug/Kg	LCS % REC #	LCS % RPD	QC LIMITS	
					RPD	REC.
1-Methylnaphthalene	24.6	18	73.2			49 - 127
2-Methylnaphthalene	24.6	20.7	84.1			31 - 149
Acenaphthene	24.6	20.2	82.1			47 - 127
Acenaphthylene	24.6	19.7	80.1			45 - 129
Anthracene	24.6	26.5	108.0			56 - 123
Benzo(a)anthracene	24.6	23.4	95.1			39 - 140
Benzo(a)pyrene	24.6	23.1	93.9			52 - 130
Benzo(b)fluoranthene	24.6	23.2	94.3			40 - 143
Benzo(g,h,i)perylene	24.6	22.7	92.3			48 - 133
Benzo(k)fluoranthene	24.6	23.3	94.7			49 - 131
Chrysene	24.6	22.8	92.7			50 - 132
Dibenzo(a,h)anthracene	24.6	23.3	94.7			51 - 130
Fluoranthene	24.6	24.6	100.0			46 - 135
Fluorene	24.6	21.2	86.2			52 - 125
Indeno(1,2,3-cd)pyrene	24.6	23.9	97.2			48 - 135
Naphthalene	24.6	20	81.3			44 - 140
Phenanthrene	24.6	22.7	92.3			48 - 131
Pyrene	24.6	22.8	92.7			45 - 133

Spike Recovery: 0 out of 18 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / EPA Sample No. EPAFMC-SD-07MS
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC #	QC LIMITS REC.
1-Methylnaphthalene	26	8.0	24	61.5*	71 - 132
2-Methylnaphthalene	26	21	38	67.3	54 - 145
Acenaphthene	26	9.0	29	75.8	57 - 119
Acenaphthylene	26	26	60	132.0*	54 - 115
Anthracene	26	53	87	131.0	40 - 138
Benzo(a)anthracene	26	190	250	231.0*	53 - 119
Benzo(a)pyrene	26	150	200	177.0*	20 - 120
Benzo(b)fluoranthene	26	210	280	242.0*	50 - 171
Benzo(g,h,i)perylene	26	91	120	120.0	50 - 150
Benzo(k)fluoranthene	26	89	120	103.0	32 - 158
Chrysene	26	180	230	188.0*	34 - 140
Dibenzo(a,h)anthracene	26	29	52	89.6	41 - 114
Fluoranthene	26	320	390	262.0*	55 - 132
Fluorene	26	24	52	108.0	59 - 118
Indeno(1,2,3-cd)pyrene	26	81	120	135.0*	19 - 122
Naphthalene	26	58	76	69.6	59 - 111
Phenanthrene	26	120	160	154.0*	54 - 112
Pyrene	26	240	290	192.0*	55 - 123

Spike Recovery: 10 out of 18 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Cre

EPAFMC-SD-07SD

Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	MSD CONCENTRATION ug/Kg	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
1-Methylnaphthalene	26	34	98.9	34.5 *	30	71 - 132
2-Methylnaphthalene	26	54	126.0	33.7 *	30	54 - 145
Acenaphthene	26	130	475.0 *	129.4 *	30	57 - 119
Acenaphthylene	26	170	555.0 *	96.3 *	30	54 - 115
Anthracene	26	1200	4436.0 *	173.3 *	30	40 - 138
Benzo(a)anthracene	26	2400	8342.0 *	162.5 *	30	53 - 119
Benzo(a)pyrene	26	1800	6072.0 *	159.2 *	30	20 - 120
Benzo(b)fluoranthene	26	2400	8278.0 *	158.6 *	30	50 - 171
Benzo(g,h,i)perylene	26	930	3198.0 *	153.7 *	30	50 - 150
Benzo(k)fluoranthene	26	740	2459.0 *	145.5 *	30	32 - 158
Chrysene	26	1900	6635.0 *	156.7 *	30	34 - 140
Dibenzo(a,h)anthracene	26	350	1205.0 *	147.3 *	30	41 - 114
Fluoranthene	26	4400	15445.0 *	167.6 *	30	55 - 132
Fluorene	26	250	861.0 *	131.6 *	30	59 - 118
Indeno(1,2,3-cd)pyrene	26	900	3095.0 *	154.1 *	30	19 - 122
Naphthalene	26	110	204.0 *	37.7 *	30	59 - 111
Phenanthrene	26	2000	6943.0 *	169.0 *	30	54 - 112
Pyrene	26	3000	10662.0 *	165.6 *	30	55 - 123

RPD: 18 out of 18 outside limits

Spike Recovery: 16 out of 18 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

DRAFT

8270 Semi-Volatile Organics

**CASE NARRATIVE
GC/MS SEMIVOLATILE ORGANICS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

EPA SW846 8270D

IV. PREPARATION

Soil samples were prepared by SW846 EPA 3545 for 8270 semi-volatile analysis.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met. Spectrum Analytical Inc. does not analyze a low calibration standard at the requested RL for all analytes. The low calibration standard is 500 ug/Kg for the following analyte: Pentachlorophenol.

B. Blanks:

All acceptance criteria were met with the exception of:

Blank 128824MB was analyzed with the soil samples extracted on 05/03/12. The following analyte was detected below RL: Bis(2-ethylhexyl)phthalate at 144 ug/Kg. Since this compound was detected below the RL, no further action was taken.

Samples coded accordingly.

C. Surrogates:

All acceptance criteria were met with the exception of:

Sample EPAFMC-SD-14 was recovered below criteria for the following surrogates: 2-Fluorobiphenyl at 22.6 % with criteria of (30-115), Nitrobenzene-d5 at 12.9 % with criteria of (23-120). This sample contained low levels of late eluting, non-target compounds that may have interfered with surrogate recovery. Since the other four surrogates met criteria, no further action was taken.

Sample EPAFMC-SD-15 was recovered below criteria for the following surrogates: 2-Fluorobiphenyl at 15.3 % with criteria of (30-115), Nitrobenzene-d5 at 11.6 % with criteria of (23-120). This sample contained low levels of late eluting, non-target

**CASE NARRATIVE
GC/MS SEMIVOLATILE ORGANICS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

compounds that may have interfered with surrogate recovery. Since the other four surrogates met criteria, no further action was taken.

Samples coded accordingly.

D. Spikes:

1. Laboratory Control Spikes (LCS)

All acceptance criteria were met with the exception of:

LCS 128825LCS was analyzed with the soil samples extracted on 05/03/12. The following analytes had marginal exceedance limit failures: Bis(2-ethylhexyl)phthalate at 162 % with criteria of (58.3-135.7). Bis(2-Ethylhexyl)phthalate is a common laboratory contaminant and that likely elevated spike recoveries. No further action was taken, since this compound was not detected in any samples.

Samples coded accordingly.

2. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

A client requested MS/SD set was analyzed. All percent recovery and relative percent difference (RPD) criteria were met with the exception of:

MS - EPAFMC-SD-07MS was analyzed with the soil samples extracted on 05/03/12. The following analytes were recovered below criteria: 2,4-Dinitrophenol at 0 % with criteria of (15-150), 4,6-Dinitro-2-methylphenol at 26.7 % with criteria of (40-130), Hexachlorocyclopentadiene at 6.1 % with criteria of (10-119).

SD - EPAFMC-SD-07SD was analyzed with the soil samples extracted on 05/03/12. The following analytes were recovered below criteria: 2,4-Dinitrophenol at 0 % with criteria of (15-150), 4,6-Dinitro-2-methylphenol at 31.8 % with criteria of (40-130), Hexachlorocyclopentadiene at 0 % with criteria of (10-119). The following analyte exceeded RPD criteria: Hexachlorocyclopentadiene at 200 % with criteria of (30).

Samples coded accordingly.

E. Internal Standards:

All acceptance criteria were met.

F. Samples:

Sample analysis proceeded normally.

**CASE NARRATIVE
GC/MS SEMIVOLATILE ORGANICS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature: 
Name: Brian C. Span **Title:** Lab Director

SIGNED:
05/08/2012

DATE:

SEMI-VOLATILE ORGANIC CROSS REFERENCE TABLE

DRAFT

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No. SAS No: SDG No.: 3505843
Method: 8270

EPA Sample No	Lab Sample ID
<u>EPAFMC-SD-07</u>	<u>350584301</u>
<u>EPAFMC-SD-08</u>	<u>350584304</u>
<u>EPAFMC-SD-09</u>	<u>350584305</u>
<u>EPAFMC-SD-10</u>	<u>350584306</u>
<u>EPAFMC-SD-11</u>	<u>350584307</u>
<u>EPAFMC-SD-12</u>	<u>350584308</u>
<u>EPAFMC-SD-13</u>	<u>350584309</u>
<u>EPAFMC-SD-14</u>	<u>350584310</u>
<u>EPAFMC-SD-15</u>	<u>350584311</u>
<u>EPAFMC-SD-16</u>	<u>350584312</u>

DRAFT

8270 Sample Data

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-07

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584301 Lab File ID: 84301.D

Sample wt/vol: 25.08 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1145

PercentSolids: 75.5 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC06 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	70.8	U	70.8	285
108-95-2	Phenol	68.6	U	68.6	1410
95-57-8	2-Chlorophenol	72.9	U	72.9	285
108-60-1	2,2'-Oxybis(1-chloropropane)	232	U	232	285
95-48-7	2-Methylphenol	101	U	101	282
67-72-1	Hexachloroethane	52.8	U	52.8	285
621-64-7	N-Nitroso-di-n-propylamine	64.4	U	64.4	285
106-44-5	4-Methylphenol	88.1	J	62.3	285
98-95-3	Nitrobenzene	63.4	U	63.4	285
78-59-1	Isophorone	62.3	U	62.3	285
88-75-5	2-Nitrophenol	76	U	76	285
105-67-9	2,4-Dimethylphenol	60.2	U	60.2	282
111-91-1	Bis(2-chloroethoxy)methane	60.2	U	60.2	282
120-83-2	2,4-Dichlorophenol	79.2	U	79.2	282
91-20-3	Naphthalene	67.6	U	67.6	285
106-47-8	4-Chloroaniline	66.5	U	66.5	285
91-57-6	2-Methylnaphthalene	61.2	U	61.2	285
87-68-3	Hexachlorobutadiene	61.2	U	61.2	285
59-50-7	4-Chloro-3-methylphenol	59.1	U	59.1	285
77-47-4	Hexachlorocyclopentadiene	42.2	U	42.2	704
88-06-2	2,4,6-Trichlorophenol	71.8	U	71.8	282
95-95-4	2,4,5-Trichlorophenol	78.2	U	78.2	282
91-58-7	2-Chloronaphthalene	70.4	U	70.4	285
88-74-4	2-Nitroaniline	60.2	U	60.2	285
208-96-8	Acenaphthylene	58.1	U	58.1	285
131-11-3	Dimethylphthalate	62.3	U	62.3	285

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-07

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584301 Lab File ID: 84301.D

Sample wt/vol: 25.08 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1145

PercentSolids: 75.5 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC06 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	52.8	U	52.8	285
83-32-9	Acenaphthene	51.8	U	51.8	285
99-09-2	3-Nitroaniline	84.5	U	84.5	282
51-28-5	2,4-Dinitrophenol	232	U	232	1420
132-64-9	Dibenzofuran	57	U	57	285
121-14-2	2,4-Dinitrotoluene	51.8	U	51.8	285
100-02-7	4-Nitrophenol	56	U	56	704
86-73-7	Fluorene	53.9	U	53.9	285
7005-72-3	4-Chlorophenyl-phenylether	53.9	U	53.9	285
84-66-2	Diethylphthalate	53.9	U	53.9	285
100-01-6	4-Nitroaniline	92.9	U	92.9	282
534-52-1	4,6-Dinitro-2-methylphenol	281	U	281	285
86-30-6	N-Nitrosodiphenylamine	66.5	U	66.5	282
101-55-3	4-Bromophenyl-phenylether	51.8	U	51.8	285
118-74-1	Hexachlorobenzene	56	U	56	282
87-86-5	Pentachlorophenol	140	U	140	285
85-01-8	Phenanthrene	230	J	59.1	285
120-12-7	Anthracene	75.6	J	63.4	285
84-74-2	Di-n-butylphthalate	46.5	U	46.5	285
206-44-0	Fluoranthene	785		50.7	285
129-00-0	Pyrene	667		97.2	285
85-68-7	Butylbenzylphthalate	66.5	U	66.5	285
91-94-1	3,3'-Dichlorobenzidine	62.3	U	62.3	285
56-55-3	Benzo(a)anthracene	449		60.2	285
218-01-9	Chrysene	489		35.9	282
117-81-7	Bis(2-ethylhexyl)phthalate	87.7	U	87.7	285

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-07

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584301 Lab File ID: 84301.D

Sample wt/vol: 25.08 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1145

PercentSolids: 75.5 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC06 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	61.2	U	61.2	285
205-99-2	Benzo(b)fluoranthene	526		66.5	285
207-08-9	Benzo(k)fluoranthene	421		60.2	285
50-32-8	Benzo(a)pyrene	400		45.4	285
193-39-5	Indeno(1,2,3-cd)pyrene	204	J	54.9	285
53-70-3	Dibenzo(a,h)anthracene	71.8	J	43.3	285
191-24-2	Benzo(g,h,i)perylene	232	J	42.2	285
98-86-2	Acetophenone	106	U	106	285
95-94-3	1,2,4,5-Tetrachlorobenzene	49.6	U	49.6	285
86-74-8	Carbazole	57	U	57	285
105-60-2	Caprolactam	148	U	148	285
92-52-4	1,1'-Biphenyl	64.4	U	64.4	285
1912-24-9	Atrazine	83.4	U	83.4	285
100-52-7	Benzaldehyde	47.5	U	47.5	285

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-08

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584304 Lab File ID: 84304.D

Sample wt/vol: 25.39 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1409

PercentSolids: 97.1 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC07 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	54.4	U	54.4	219
108-95-2	Phenol	52.7	U	52.7	1080
95-57-8	2-Chlorophenol	56	U	56	219
108-60-1	2,2'-Oxybis(1-chloropropane)	178	U	178	219
95-48-7	2-Methylphenol	77.9	U	77.9	216
67-72-1	Hexachloroethane	40.6	U	40.6	219
621-64-7	N-Nitroso-di-n-propylamine	49.5	U	49.5	219
106-44-5	4-Methylphenol	47.9	U	47.9	219
98-95-3	Nitrobenzene	48.7	U	48.7	219
78-59-1	Isophorone	47.9	U	47.9	219
88-75-5	2-Nitrophenol	58.4	U	58.4	219
105-67-9	2,4-Dimethylphenol	46.2	U	46.2	216
111-91-1	Bis(2-chloroethoxy)methane	46.2	U	46.2	216
120-83-2	2,4-Dichlorophenol	60.8	U	60.8	216
91-20-3	Naphthalene	51.9	U	51.9	219
106-47-8	4-Chloroaniline	51.1	U	51.1	219
91-57-6	2-Methylnaphthalene	47	U	47	219
87-68-3	Hexachlorobutadiene	47	U	47	219
59-50-7	4-Chloro-3-methylphenol	45.4	U	45.4	219
77-47-4	Hexachlorocyclopentadiene	32.4	U	32.4	541
88-06-2	2,4,6-Trichlorophenol	55.2	U	55.2	216
95-95-4	2,4,5-Trichlorophenol	60	U	60	216
91-58-7	2-Chloronaphthalene	54.1	U	54.1	219
88-74-4	2-Nitroaniline	46.2	U	46.2	219
208-96-8	Acenaphthylene	44.6	U	44.6	219
131-11-3	Dimethylphthalate	47.9	U	47.9	219

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-08

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584304 Lab File ID: 84304.D

Sample wt/vol: 25.39 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1409

PercentSolids: 97.1 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC07 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	40.6	U	40.6	219
83-32-9	Acenaphthene	39.7	U	39.7	219
99-09-2	3-Nitroaniline	64.9	U	64.9	216
51-28-5	2,4-Dinitrophenol	178	U	178	1090
132-64-9	Dibenzofuran	43.8	U	43.8	219
121-14-2	2,4-Dinitrotoluene	39.7	U	39.7	219
100-02-7	4-Nitrophenol	43	U	43	541
86-73-7	Fluorene	41.4	U	41.4	219
7005-72-3	4-Chlorophenyl-phenylether	41.4	U	41.4	219
84-66-2	Diethylphthalate	41.4	U	41.4	219
100-01-6	4-Nitroaniline	71.4	U	71.4	216
534-52-1	4,6-Dinitro-2-methylphenol	216	U	216	219
86-30-6	N-Nitrosodiphenylamine	51.1	U	51.1	216
101-55-3	4-Bromophenyl-phenylether	39.7	U	39.7	219
118-74-1	Hexachlorobenzene	43	U	43	216
87-86-5	Pentachlorophenol	108	U	108	219
85-01-8	Phenanthrene	215	J	45.4	219
120-12-7	Anthracene	48.7	U	48.7	219
84-74-2	Di-n-butylphthalate	35.7	U	35.7	219
206-44-0	Fluoranthene	380		38.9	219
129-00-0	Pyrene	317		74.6	219
85-68-7	Butylbenzylphthalate	51.1	U	51.1	219
91-94-1	3,3'-Dichlorobenzidine	47.9	U	47.9	219
56-55-3	Benzo(a)anthracene	172	J	46.2	219
218-01-9	Chrysene	187	J	27.6	216
117-81-7	Bis(2-ethylhexyl)phthalate	67.3	U	67.3	219

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-08

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584304 Lab File ID: 84304.D

Sample wt/vol: 25.39 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1409

PercentSolids: 97.1 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC07 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	47	U	47	219
205-99-2	Benzo(b)fluoranthene	210	J	51.1	219
207-08-9	Benzo(k)fluoranthene	87.6	J	46.2	219
50-32-8	Benzo(a)pyrene	129	J	34.9	219
193-39-5	Indeno(1,2,3-cd)pyrene	79.2	J	42.2	219
53-70-3	Dibenzo(a,h)anthracene	33.2	U	33.2	219
191-24-2	Benzo(g,h,i)perylene	88.6	J	32.4	219
98-86-2	Acetophenone	81.1	U	81.1	219
95-94-3	1,2,4,5-Tetrachlorobenzene	38.1	U	38.1	219
86-74-8	Carbazole	43.8	U	43.8	219
105-60-2	Caprolactam	114	U	114	219
92-52-4	1,1'-Biphenyl	49.5	U	49.5	219
1912-24-9	Atrazine	64.1	U	64.1	219
100-52-7	Benzaldehyde	36.5	U	36.5	219

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-09

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584305 Lab File ID: 84305.D

Sample wt/vol: 25.06 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1433

PercentSolids: 77.7 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC08 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	68.8	U	68.8	277
108-95-2	Phenol	66.8	U	66.8	1370
95-57-8	2-Chlorophenol	70.9	U	70.9	277
108-60-1	2,2'-Oxybis(1-chloropropane)	226	U	226	277
95-48-7	2-Methylphenol	98.6	U	98.6	274
67-72-1	Hexachloroethane	51.4	U	51.4	277
621-64-7	N-Nitroso-di-n-propylamine	62.6	U	62.6	277
106-44-5	4-Methylphenol	60.6	U	60.6	277
98-95-3	Nitrobenzene	61.6	U	61.6	277
78-59-1	Isophorone	60.6	U	60.6	277
88-75-5	2-Nitrophenol	74	U	74	277
105-67-9	2,4-Dimethylphenol	58.5	U	58.5	274
111-91-1	Bis(2-chloroethoxy)methane	58.5	U	58.5	274
120-83-2	2,4-Dichlorophenol	77	U	77	274
91-20-3	Naphthalene	65.7	U	65.7	277
106-47-8	4-Chloroaniline	64.7	U	64.7	277
91-57-6	2-Methylnaphthalene	59.6	U	59.6	277
87-68-3	Hexachlorobutadiene	59.6	U	59.6	277
59-50-7	4-Chloro-3-methylphenol	57.5	U	57.5	277
77-47-4	Hexachlorocyclopentadiene	41.1	U	41.1	685
88-06-2	2,4,6-Trichlorophenol	69.8	U	69.8	274
95-95-4	2,4,5-Trichlorophenol	76	U	76	274
91-58-7	2-Chloronaphthalene	68.5	U	68.5	277
88-74-4	2-Nitroaniline	58.5	U	58.5	277
208-96-8	Acenaphthylene	56.5	U	56.5	277
131-11-3	Dimethylphthalate	60.6	U	60.6	277

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-09

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584305 Lab File ID: 84305.D

Sample wt/vol: 25.06 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1433

PercentSolids: 77.7 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC08 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	51.4	U	51.4	277
83-32-9	Acenaphthene	50.3	U	50.3	277
99-09-2	3-Nitroaniline	82.2	U	82.2	274
51-28-5	2,4-Dinitrophenol	226	U	226	1380
132-64-9	Dibenzofuran	55.5	U	55.5	277
121-14-2	2,4-Dinitrotoluene	50.3	U	50.3	277
100-02-7	4-Nitrophenol	54.4	U	54.4	685
86-73-7	Fluorene	52.4	U	52.4	277
7005-72-3	4-Chlorophenyl-phenylether	52.4	U	52.4	277
84-66-2	Diethylphthalate	52.4	U	52.4	277
100-01-6	4-Nitroaniline	90.4	U	90.4	274
534-52-1	4,6-Dinitro-2-methylphenol	273	U	273	277
86-30-6	N-Nitrosodiphenylamine	64.7	U	64.7	274
101-55-3	4-Bromophenyl-phenylether	50.3	U	50.3	277
118-74-1	Hexachlorobenzene	54.4	U	54.4	274
87-86-5	Pentachlorophenol	137	U	137	277
85-01-8	Phenanthrene	57.5	U	57.5	277
120-12-7	Anthracene	61.6	U	61.6	277
84-74-2	Di-n-butylphthalate	45.2	U	45.2	277
206-44-0	Fluoranthene	214	J	49.3	277
129-00-0	Pyrene	252	J	94.5	277
85-68-7	Butylbenzylphthalate	64.7	U	64.7	277
91-94-1	3,3'-Dichlorobenzidine	60.6	U	60.6	277
56-55-3	Benzo(a)anthracene	161	J	58.5	277
218-01-9	Chrysene	161	J	34.9	274
117-81-7	Bis(2-ethylhexyl)phthalate	85.2	U	85.2	277

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-09

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584305 Lab File ID: 84305.D

Sample wt/vol: 25.06 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1433

PercentSolids: 77.7 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC08 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	59.6	U	59.6	277
205-99-2	Benzo(b)fluoranthene	163	J	64.7	277
207-08-9	Benzo(k)fluoranthene	77.4	J	58.5	277
50-32-8	Benzo(a)pyrene	108	J	44.2	277
193-39-5	Indeno(1,2,3-cd)pyrene	57.9	J	53.4	277
53-70-3	Dibenzo(a,h)anthracene	42.1	U	42.1	277
191-24-2	Benzo(g,h,i)perylene	65.7	J	41.1	277
98-86-2	Acetophenone	103	U	103	277
95-94-3	1,2,4,5-Tetrachlorobenzene	48.3	U	48.3	277
86-74-8	Carbazole	55.5	U	55.5	277
105-60-2	Caprolactam	144	U	144	277
92-52-4	1,1'-Biphenyl	62.6	U	62.6	277
1912-24-9	Atrazine	81.1	U	81.1	277
100-52-7	Benzaldehyde	46.2	U	46.2	277

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-10

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584306 Lab File ID: 84306.D

Sample wt/vol: 25.81 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1457

PercentSolids: 79.7 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC09 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	65.1	U	65.1	262
108-95-2	Phenol	63.2	U	63.2	1300
95-57-8	2-Chlorophenol	67.1	U	67.1	262
108-60-1	2,2'-Oxybis(1-chloropropane)	214	U	214	262
95-48-7	2-Methylphenol	93.3	U	93.3	260
67-72-1	Hexachloroethane	48.6	U	48.6	262
621-64-7	N-Nitroso-di-n-propylamine	59.3	U	59.3	262
106-44-5	4-Methylphenol	57.4	U	57.4	262
98-95-3	Nitrobenzene	58.3	U	58.3	262
78-59-1	Isophorone	57.4	U	57.4	262
88-75-5	2-Nitrophenol	70	U	70	262
105-67-9	2,4-Dimethylphenol	55.4	U	55.4	260
111-91-1	Bis(2-chloroethoxy)methane	55.4	U	55.4	260
120-83-2	2,4-Dichlorophenol	72.9	U	72.9	260
91-20-3	Naphthalene	62.9	J	62.2	262
106-47-8	4-Chloroaniline	61.2	U	61.2	262
91-57-6	2-Methylnaphthalene	56.4	U	56.4	262
87-68-3	Hexachlorobutadiene	56.4	U	56.4	262
59-50-7	4-Chloro-3-methylphenol	54.4	U	54.4	262
77-47-4	Hexachlorocyclopentadiene	38.9	U	38.9	648
88-06-2	2,4,6-Trichlorophenol	66.1	U	66.1	260
95-95-4	2,4,5-Trichlorophenol	72	U	72	260
91-58-7	2-Chloronaphthalene	64.8	U	64.8	262
88-74-4	2-Nitroaniline	55.4	U	55.4	262
208-96-8	Acenaphthylene	84.4	J	53.5	262
131-11-3	Dimethylphthalate	57.4	U	57.4	262

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-10

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584306 Lab File ID: 84306.D

Sample wt/vol: 25.81 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1457

PercentSolids: 79.7 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC09 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	48.6	U	48.6	262
83-32-9	Acenaphthene	47.6	U	47.6	262
99-09-2	3-Nitroaniline	77.8	U	77.8	260
51-28-5	2,4-Dinitrophenol	214	U	214	1300
132-64-9	Dibenzofuran	61.7	J	52.5	262
121-14-2	2,4-Dinitrotoluene	47.6	U	47.6	262
100-02-7	4-Nitrophenol	51.5	U	51.5	648
86-73-7	Fluorene	122	J	49.6	262
7005-72-3	4-Chlorophenyl-phenylether	49.6	U	49.6	262
84-66-2	Diethylphthalate	49.6	U	49.6	262
100-01-6	4-Nitroaniline	85.6	U	85.6	260
534-52-1	4,6-Dinitro-2-methylphenol	259	U	259	262
86-30-6	N-Nitrosodiphenylamine	61.2	U	61.2	260
101-55-3	4-Bromophenyl-phenylether	47.6	U	47.6	262
118-74-1	Hexachlorobenzene	51.5	U	51.5	260
87-86-5	Pentachlorophenol	129	U	129	262
85-01-8	Phenanthrene	574		54.4	262
120-12-7	Anthracene	154	J	58.3	262
84-74-2	Di-n-butylphthalate	42.8	U	42.8	262
206-44-0	Fluoranthene	630		46.7	262
129-00-0	Pyrene	495		89.4	262
85-68-7	Butylbenzylphthalate	61.2	U	61.2	262
91-94-1	3,3'-Dichlorobenzidine	57.4	U	57.4	262
56-55-3	Benzo(a)anthracene	338		55.4	262
218-01-9	Chrysene	326		33	260
117-81-7	Bis(2-ethylhexyl)phthalate	80.7	U	80.7	262

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-10

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584306 Lab File ID: 84306.D

Sample wt/vol: 25.81 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1457

PercentSolids: 79.7 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC09 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	56.4	U	56.4	262
205-99-2	Benzo(b)fluoranthene	350		61.2	262
207-08-9	Benzo(k)fluoranthene	123	J	55.4	262
50-32-8	Benzo(a)pyrene	227	J	41.8	262
193-39-5	Indeno(1,2,3-cd)pyrene	104	J	50.5	262
53-70-3	Dibenzo(a,h)anthracene	50.2	J	39.9	262
191-24-2	Benzo(g,h,i)perylene	118	J	38.9	262
98-86-2	Acetophenone	97.2	U	97.2	262
95-94-3	1,2,4,5-Tetrachlorobenzene	45.7	U	45.7	262
86-74-8	Carbazole	76.6	J	52.5	262
105-60-2	Caprolactam	136	U	136	262
92-52-4	1,1'-Biphenyl	59.3	U	59.3	262
1912-24-9	Atrazine	76.8	U	76.8	262
100-52-7	Benzaldehyde	43.8	U	43.8	262

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-11

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584307 Lab File ID: 84307.D

Sample wt/vol: 25.15 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1521

PercentSolids: 78.4 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC10 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	68	U	68	274
108-95-2	Phenol	65.9	U	65.9	1350
95-57-8	2-Chlorophenol	70	U	70	274
108-60-1	2,2'-Oxybis(1-chloropropane)	223	U	223	274
95-48-7	2-Methylphenol	97.4	U	97.4	271
67-72-1	Hexachloroethane	50.7	U	50.7	274
621-64-7	N-Nitroso-di-n-propylamine	61.9	U	61.9	274
106-44-5	4-Methylphenol	59.8	U	59.8	274
98-95-3	Nitrobenzene	60.8	U	60.8	274
78-59-1	Isophorone	59.8	U	59.8	274
88-75-5	2-Nitrophenol	73	U	73	274
105-67-9	2,4-Dimethylphenol	57.8	U	57.8	271
111-91-1	Bis(2-chloroethoxy)methane	57.8	U	57.8	271
120-83-2	2,4-Dichlorophenol	76.1	U	76.1	271
91-20-3	Naphthalene	64.9	U	64.9	274
106-47-8	4-Chloroaniline	63.9	U	63.9	274
91-57-6	2-Methylnaphthalene	58.8	U	58.8	274
87-68-3	Hexachlorobutadiene	58.8	U	58.8	274
59-50-7	4-Chloro-3-methylphenol	56.8	U	56.8	274
77-47-4	Hexachlorocyclopentadiene	40.6	U	40.6	676
88-06-2	2,4,6-Trichlorophenol	69	U	69	271
95-95-4	2,4,5-Trichlorophenol	75	U	75	271
91-58-7	2-Chloronaphthalene	67.6	U	67.6	274
88-74-4	2-Nitroaniline	57.8	U	57.8	274
208-96-8	Acenaphthylene	55.8	U	55.8	274
131-11-3	Dimethylphthalate	59.8	U	59.8	274

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-11

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584307 Lab File ID: 84307.D

Sample wt/vol: 25.15 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1521

PercentSolids: 78.4 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC10 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	50.7	U	50.7	274
83-32-9	Acenaphthene	49.7	U	49.7	274
99-09-2	3-Nitroaniline	81.1	U	81.1	271
51-28-5	2,4-Dinitrophenol	223	U	223	1360
132-64-9	Dibenzofuran	54.8	U	54.8	274
121-14-2	2,4-Dinitrotoluene	49.7	U	49.7	274
100-02-7	4-Nitrophenol	53.8	U	53.8	676
86-73-7	Fluorene	51.7	U	51.7	274
7005-72-3	4-Chlorophenyl-phenylether	51.7	U	51.7	274
84-66-2	Diethylphthalate	51.7	U	51.7	274
100-01-6	4-Nitroaniline	89.2	U	89.2	271
534-52-1	4,6-Dinitro-2-methylphenol	270	U	270	274
86-30-6	N-Nitrosodiphenylamine	63.9	U	63.9	271
101-55-3	4-Bromophenyl-phenylether	49.7	U	49.7	274
118-74-1	Hexachlorobenzene	53.8	U	53.8	271
87-86-5	Pentachlorophenol	135	U	135	274
85-01-8	Phenanthrene	56.8	U	56.8	274
120-12-7	Anthracene	60.8	U	60.8	274
84-74-2	Di-n-butylphthalate	44.6	U	44.6	274
206-44-0	Fluoranthene	275		48.7	274
129-00-0	Pyrene	265	J	93.3	274
85-68-7	Butylbenzylphthalate	63.9	U	63.9	274
91-94-1	3,3'-Dichlorobenzidine	59.8	U	59.8	274
56-55-3	Benzo(a)anthracene	176	J	57.8	274
218-01-9	Chrysene	183	J	34.5	271
117-81-7	Bis(2-ethylhexyl)phthalate	84.2	U	84.2	274

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-11

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584307 Lab File ID: 84307.D

Sample wt/vol: 25.15 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1521

PercentSolids: 78.4 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC10 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	58.8	U	58.8	274
205-99-2	Benzo(b)fluoranthene	186	J	63.9	274
207-08-9	Benzo(k)fluoranthene	91.8	J	57.8	274
50-32-8	Benzo(a)pyrene	118	J	43.6	274
193-39-5	Indeno(1,2,3-cd)pyrene	60.6	J	52.7	274
53-70-3	Dibenzo(a,h)anthracene	41.6	U	41.6	274
191-24-2	Benzo(g,h,i)perylene	70.2	J	40.6	274
98-86-2	Acetophenone	101	U	101	274
95-94-3	1,2,4,5-Tetrachlorobenzene	47.7	U	47.7	274
86-74-8	Carbazole	54.8	U	54.8	274
105-60-2	Caprolactam	142	U	142	274
92-52-4	1,1'-Biphenyl	61.9	U	61.9	274
1912-24-9	Atrazine	80.1	U	80.1	274
100-52-7	Benzaldehyde	45.6	U	45.6	274

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-12

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584308 Lab File ID: 84308.D

Sample wt/vol: 25.52 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1545

PercentSolids: 84.4 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC11 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	62.2	U	62.2	251
108-95-2	Phenol	60.4	U	60.4	1240
95-57-8	2-Chlorophenol	64.1	U	64.1	251
108-60-1	2,2'-Oxybis(1-chloropropane)	204	U	204	251
95-48-7	2-Methylphenol	89.1	U	89.1	248
67-72-1	Hexachloroethane	46.4	U	46.4	251
621-64-7	N-Nitroso-di-n-propylamine	56.6	U	56.6	251
106-44-5	4-Methylphenol	54.8	U	54.8	251
98-95-3	Nitrobenzene	55.7	U	55.7	251
78-59-1	Isophorone	54.8	U	54.8	251
88-75-5	2-Nitrophenol	66.8	U	66.8	251
105-67-9	2,4-Dimethylphenol	52.9	U	52.9	248
111-91-1	Bis(2-chloroethoxy)methane	52.9	U	52.9	248
120-83-2	2,4-Dichlorophenol	69.6	U	69.6	248
91-20-3	Naphthalene	342		59.4	251
106-47-8	4-Chloroaniline	58.5	U	58.5	251
91-57-6	2-Methylnaphthalene	65.7	J	53.8	251
87-68-3	Hexachlorobutadiene	53.8	U	53.8	251
59-50-7	4-Chloro-3-methylphenol	52	U	52	251
77-47-4	Hexachlorocyclopentadiene	37.1	U	37.1	619
88-06-2	2,4,6-Trichlorophenol	63.1	U	63.1	248
95-95-4	2,4,5-Trichlorophenol	68.7	U	68.7	248
91-58-7	2-Chloronaphthalene	61.9	U	61.9	251
88-74-4	2-Nitroaniline	52.9	U	52.9	251
208-96-8	Acenaphthylene	97.7	J	51.1	251
131-11-3	Dimethylphthalate	54.8	U	54.8	251

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-12

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584308 Lab File ID: 84308.D

Sample wt/vol: 25.52 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1545

PercentSolids: 84.4 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC11 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	46.4	U	46.4	251
83-32-9	Acenaphthene	45.5	U	45.5	251
99-09-2	3-Nitroaniline	74.3	U	74.3	248
51-28-5	2,4-Dinitrophenol	204	U	204	1240
132-64-9	Dibenzofuran	57.3	J	50.1	251
121-14-2	2,4-Dinitrotoluene	45.5	U	45.5	251
100-02-7	4-Nitrophenol	49.2	U	49.2	619
86-73-7	Fluorene	55.3	J	47.4	251
7005-72-3	4-Chlorophenyl-phenylether	47.4	U	47.4	251
84-66-2	Diethylphthalate	47.4	U	47.4	251
100-01-6	4-Nitroaniline	81.7	U	81.7	248
534-52-1	4,6-Dinitro-2-methylphenol	247	U	247	251
86-30-6	N-Nitrosodiphenylamine	58.5	U	58.5	248
101-55-3	4-Bromophenyl-phenylether	45.5	U	45.5	251
118-74-1	Hexachlorobenzene	49.2	U	49.2	248
87-86-5	Pentachlorophenol	124	U	124	251
85-01-8	Phenanthrene	373		52	251
120-12-7	Anthracene	176	J	55.7	251
84-74-2	Di-n-butylphthalate	40.8	U	40.8	251
206-44-0	Fluoranthene	1060		44.6	251
129-00-0	Pyrene	878		85.4	251
85-68-7	Butylbenzylphthalate	58.5	U	58.5	251
91-94-1	3,3'-Dichlorobenzidine	54.8	U	54.8	251
56-55-3	Benzo(a)anthracene	574		52.9	251
218-01-9	Chrysene	550		31.6	248
117-81-7	Bis(2-ethylhexyl)phthalate	77.1	U	77.1	251

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-12

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584308 Lab File ID: 84308.D

Sample wt/vol: 25.52 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1545

PercentSolids: 84.4 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC11 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	53.8	U	53.8	251
205-99-2	Benzo(b)fluoranthene	569		58.5	251
207-08-9	Benzo(k)fluoranthene	279		52.9	251
50-32-8	Benzo(a)pyrene	397		39.9	251
193-39-5	Indeno(1,2,3-cd)pyrene	192	J	48.3	251
53-70-3	Dibenzo(a,h)anthracene	71.6	J	38.1	251
191-24-2	Benzo(g,h,i)perylene	215	J	37.1	251
98-86-2	Acetophenone	92.9	U	92.9	251
95-94-3	1,2,4,5-Tetrachlorobenzene	43.6	U	43.6	251
86-74-8	Carbazole	69.8	J	50.1	251
105-60-2	Caprolactam	130	U	130	251
92-52-4	1,1'-Biphenyl	56.6	U	56.6	251
1912-24-9	Atrazine	73.4	U	73.4	251
100-52-7	Benzaldehyde	41.8	U	41.8	251

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-13

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. SAS No: SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584309 Lab File ID: 84309.D

Sample wt/vol: 25.22 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1609

PercentSolids: 78 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC12 Method: 8270

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	68.1	U	68.1	274
108-95-2	Phenol	66.1	U	66.1	1360
95-57-8	2-Chlorophenol	70.2	U	70.2	274
108-60-1	2,2'-Oxybis(1-chloropropane)	224	U	224	274
95-48-7	2-Methylphenol	97.6	U	97.6	271
67-72-1	Hexachloroethane	50.8	U	50.8	274
621-64-7	N-Nitroso-di-n-propylamine	62	U	62	274
106-44-5	4-Methylphenol	60	U	60	274
98-95-3	Nitrobenzene	61	U	61	274
78-59-1	Isophorone	60	U	60	274
88-75-5	2-Nitrophenol	73.2	U	73.2	274
105-67-9	2,4-Dimethylphenol	58	U	58	271
111-91-1	Bis(2-chloroethoxy)methane	58	U	58	271
120-83-2	2,4-Dichlorophenol	76.2	U	76.2	271
91-20-3	Naphthalene	121	J	65.1	274
106-47-8	4-Chloroaniline	64	U	64	274
91-57-6	2-Methylnaphthalene	59	U	59	274
87-68-3	Hexachlorobutadiene	59	U	59	274
59-50-7	4-Chloro-3-methylphenol	56.9	U	56.9	274
77-47-4	Hexachlorocyclopentadiene	40.7	U	40.7	678
88-06-2	2,4,6-Trichlorophenol	69.1	U	69.1	271
95-95-4	2,4,5-Trichlorophenol	75.2	U	75.2	271
91-58-7	2-Chloronaphthalene	67.8	U	67.8	274
88-74-4	2-Nitroaniline	58	U	58	274
208-96-8	Acenaphthylene	55.9	U	55.9	274
131-11-3	Dimethylphthalate	60	U	60	274

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-13

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584309 Lab File ID: 84309.D

Sample wt/vol: 25.22 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1609

PercentSolids: 78 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC12 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	50.8	U	50.8	274
83-32-9	Acenaphthene	49.8	U	49.8	274
99-09-2	3-Nitroaniline	81.3	U	81.3	271
51-28-5	2,4-Dinitrophenol	224	U	224	1360
132-64-9	Dibenzofuran	54.9	U	54.9	274
121-14-2	2,4-Dinitrotoluene	49.8	U	49.8	274
100-02-7	4-Nitrophenol	53.9	U	53.9	678
86-73-7	Fluorene	58.9	J	51.8	274
7005-72-3	4-Chlorophenyl-phenylether	51.8	U	51.8	274
84-66-2	Diethylphthalate	51.8	U	51.8	274
100-01-6	4-Nitroaniline	89.5	U	89.5	271
534-52-1	4,6-Dinitro-2-methylphenol	270	U	270	274
86-30-6	N-Nitrosodiphenylamine	64	U	64	271
101-55-3	4-Bromophenyl-phenylether	49.8	U	49.8	274
118-74-1	Hexachlorobenzene	53.9	U	53.9	271
87-86-5	Pentachlorophenol	135	U	135	274
85-01-8	Phenanthrene	534		56.9	274
120-12-7	Anthracene	142	J	61	274
84-74-2	Di-n-butylphthalate	44.7	U	44.7	274
206-44-0	Fluoranthene	910		48.8	274
129-00-0	Pyrene	914		93.5	274
85-68-7	Butylbenzylphthalate	64	U	64	274
91-94-1	3,3'-Dichlorobenzidine	60	U	60	274
56-55-3	Benzo(a)anthracene	466		58	274
218-01-9	Chrysene	591		34.6	271
117-81-7	Bis(2-ethylhexyl)phthalate	84.4	U	84.4	274

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-13

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584309 Lab File ID: 84309.D

Sample wt/vol: 25.22 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1609

PercentSolids: 78 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC12 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	59	U	59	274
205-99-2	Benzo(b)fluoranthene	603		64	274
207-08-9	Benzo(k)fluoranthene	454		58	274
50-32-8	Benzo(a)pyrene	362		43.7	274
193-39-5	Indeno(1,2,3-cd)pyrene	206	J	52.9	274
53-70-3	Dibenzo(a,h)anthracene	41.7	U	41.7	274
191-24-2	Benzo(g,h,i)perylene	235	J	40.7	274
98-86-2	Acetophenone	102	U	102	274
95-94-3	1,2,4,5-Tetrachlorobenzene	47.8	U	47.8	274
86-74-8	Carbazole	61.3	J	54.9	274
105-60-2	Caprolactam	142	U	142	274
92-52-4	1,1'-Biphenyl	62	U	62	274
1912-24-9	Atrazine	80.3	U	80.3	274
100-52-7	Benzaldehyde	45.8	U	45.8	274

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-14

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584310 Lab File ID: 84310.D

Sample wt/vol: 25.67 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1632

PercentSolids: 80.6 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC13 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	64.8	U	64.8	261
108-95-2	Phenol	62.8	U	62.8	1290
95-57-8	2-Chlorophenol	66.7	U	66.7	261
108-60-1	2,2'-Oxybis(1-chloropropane)	213	U	213	261
95-48-7	2-Methylphenol	92.8	U	92.8	258
67-72-1	Hexachloroethane	48.3	U	48.3	261
621-64-7	N-Nitroso-di-n-propylamine	59	U	59	261
106-44-5	4-Methylphenol	57	U	57	261
98-95-3	Nitrobenzene	58	U	58	261
78-59-1	Isophorone	57	U	57	261
88-75-5	2-Nitrophenol	69.6	U	69.6	261
105-67-9	2,4-Dimethylphenol	55.1	U	55.1	258
111-91-1	Bis(2-chloroethoxy)methane	55.1	U	55.1	258
120-83-2	2,4-Dichlorophenol	72.5	U	72.5	258
91-20-3	Naphthalene	61.9	U	61.9	261
106-47-8	4-Chloroaniline	60.9	U	60.9	261
91-57-6	2-Methylnaphthalene	56.1	U	56.1	261
87-68-3	Hexachlorobutadiene	56.1	U	56.1	261
59-50-7	4-Chloro-3-methylphenol	54.1	U	54.1	261
77-47-4	Hexachlorocyclopentadiene	38.7	U	38.7	645
88-06-2	2,4,6-Trichlorophenol	65.7	U	65.7	258
95-95-4	2,4,5-Trichlorophenol	71.5	U	71.5	258
91-58-7	2-Chloronaphthalene	64.5	U	64.5	261
88-74-4	2-Nitroaniline	55.1	U	55.1	261
208-96-8	Acenaphthylene	53.2	U	53.2	261
131-11-3	Dimethylphthalate	57	U	57	261

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-14

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584310 Lab File ID: 84310.D

Sample wt/vol: 25.67 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1632

PercentSolids: 80.6 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC13 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	48.3	U	48.3	261
83-32-9	Acenaphthene	47.4	U	47.4	261
99-09-2	3-Nitroaniline	77.3	U	77.3	258
51-28-5	2,4-Dinitrophenol	213	U	213	1300
132-64-9	Dibenzofuran	52.2	U	52.2	261
121-14-2	2,4-Dinitrotoluene	47.4	U	47.4	261
100-02-7	4-Nitrophenol	51.2	U	51.2	645
86-73-7	Fluorene	49.3	U	49.3	261
7005-72-3	4-Chlorophenyl-phenylether	49.3	U	49.3	261
84-66-2	Diethylphthalate	49.3	U	49.3	261
100-01-6	4-Nitroaniline	85.1	U	85.1	258
534-52-1	4,6-Dinitro-2-methylphenol	257	U	257	261
86-30-6	N-Nitrosodiphenylamine	60.9	U	60.9	258
101-55-3	4-Bromophenyl-phenylether	47.4	U	47.4	261
118-74-1	Hexachlorobenzene	51.2	U	51.2	258
87-86-5	Pentachlorophenol	128	U	128	261
85-01-8	Phenanthrene	730		54.1	261
120-12-7	Anthracene	169	J	58	261
84-74-2	Di-n-butylphthalate	42.5	U	42.5	261
206-44-0	Fluoranthene	1580		46.4	261
129-00-0	Pyrene	1200		88.9	261
85-68-7	Butylbenzylphthalate	60.9	U	60.9	261
91-94-1	3,3'-Dichlorobenzidine	57	U	57	261
56-55-3	Benzo(a)anthracene	767		55.1	261
218-01-9	Chrysene	815		32.9	258
117-81-7	Bis(2-ethylhexyl)phthalate	80.2	U	80.2	261

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-14

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584310 Lab File ID: 84310.D

Sample wt/vol: 25.67 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1632

PercentSolids: 80.6 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC13 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	56.1	U	56.1	261
205-99-2	Benzo(b)fluoranthene	882		60.9	261
207-08-9	Benzo(k)fluoranthene	660		55.1	261
50-32-8	Benzo(a)pyrene	549		41.6	261
193-39-5	Indeno(1,2,3-cd)pyrene	292		50.3	261
53-70-3	Dibenzo(a,h)anthracene	124	J	39.6	261
191-24-2	Benzo(g,h,i)perylene	324		38.7	261
98-86-2	Acetophenone	96.7	U	96.7	261
95-94-3	1,2,4,5-Tetrachlorobenzene	45.4	U	45.4	261
86-74-8	Carbazole	142	J	52.2	261
105-60-2	Caprolactam	135	U	135	261
92-52-4	1,1'-Biphenyl	59	U	59	261
1912-24-9	Atrazine	76.4	U	76.4	261
100-52-7	Benzaldehyde	43.5	U	43.5	261

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-15

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584311 Lab File ID: 84311.D

Sample wt/vol: 25.45 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1656

PercentSolids: 82.2 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC14 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	64	U	64	258
108-95-2	Phenol	62.1	U	62.1	1280
95-57-8	2-Chlorophenol	66	U	66	258
108-60-1	2,2'-Oxybis(1-chloropropane)	210	U	210	258
95-48-7	2-Methylphenol	91.8	U	91.8	255
67-72-1	Hexachloroethane	47.8	U	47.8	258
621-64-7	N-Nitroso-di-n-propylamine	58.3	U	58.3	258
106-44-5	4-Methylphenol	56.4	U	56.4	258
98-95-3	Nitrobenzene	57.4	U	57.4	258
78-59-1	Isophorone	56.4	U	56.4	258
88-75-5	2-Nitrophenol	68.8	U	68.8	258
105-67-9	2,4-Dimethylphenol	54.5	U	54.5	255
111-91-1	Bis(2-chloroethoxy)methane	54.5	U	54.5	255
120-83-2	2,4-Dichlorophenol	71.7	U	71.7	255
91-20-3	Naphthalene	61.2	U	61.2	258
106-47-8	4-Chloroaniline	60.2	U	60.2	258
91-57-6	2-Methylnaphthalene	55.4	U	55.4	258
87-68-3	Hexachlorobutadiene	55.4	U	55.4	258
59-50-7	4-Chloro-3-methylphenol	53.5	U	53.5	258
77-47-4	Hexachlorocyclopentadiene	38.2	U	38.2	638
88-06-2	2,4,6-Trichlorophenol	65	U	65	255
95-95-4	2,4,5-Trichlorophenol	70.7	U	70.7	255
91-58-7	2-Chloronaphthalene	63.8	U	63.8	258
88-74-4	2-Nitroaniline	54.5	U	54.5	258
208-96-8	Acenaphthylene	52.6	U	52.6	258
131-11-3	Dimethylphthalate	56.4	U	56.4	258

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-15

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584311 Lab File ID: 84311.D

Sample wt/vol: 25.45 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1656

PercentSolids: 82.2 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC14 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	47.8	U	47.8	258
83-32-9	Acenaphthene	46.8	U	46.8	258
99-09-2	3-Nitroaniline	76.5	U	76.5	255
51-28-5	2,4-Dinitrophenol	210	U	210	1280
132-64-9	Dibenzofuran	51.6	U	51.6	258
121-14-2	2,4-Dinitrotoluene	46.8	U	46.8	258
100-02-7	4-Nitrophenol	50.7	U	50.7	638
86-73-7	Fluorene	48.8	U	48.8	258
7005-72-3	4-Chlorophenyl-phenylether	48.8	U	48.8	258
84-66-2	Diethylphthalate	48.8	U	48.8	258
100-01-6	4-Nitroaniline	84.1	U	84.1	255
534-52-1	4,6-Dinitro-2-methylphenol	254	U	254	258
86-30-6	N-Nitrosodiphenylamine	60.2	U	60.2	255
101-55-3	4-Bromophenyl-phenylether	46.8	U	46.8	258
118-74-1	Hexachlorobenzene	50.7	U	50.7	255
87-86-5	Pentachlorophenol	127	U	127	258
85-01-8	Phenanthrene	53.5	U	53.5	258
120-12-7	Anthracene	57.4	U	57.4	258
84-74-2	Di-n-butylphthalate	42.1	U	42.1	258
206-44-0	Fluoranthene	45.9	U	45.9	258
129-00-0	Pyrene	88	U	88	258
85-68-7	Butylbenzylphthalate	60.2	U	60.2	258
91-94-1	3,3'-Dichlorobenzidine	56.4	U	56.4	258
56-55-3	Benzo(a)anthracene	54.5	U	54.5	258
218-01-9	Chrysene	32.5	U	32.5	255
117-81-7	Bis(2-ethylhexyl)phthalate	79.3	U	79.3	258

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-15

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584311 Lab File ID: 84311.D

Sample wt/vol: 25.45 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1656

PercentSolids: 82.2 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC14 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	55.4	U	55.4	258
205-99-2	Benzo(b)fluoranthene	60.2	U	60.2	258
207-08-9	Benzo(k)fluoranthene	54.5	U	54.5	258
50-32-8	Benzo(a)pyrene	41.1	U	41.1	258
193-39-5	Indeno(1,2,3-cd)pyrene	49.7	U	49.7	258
53-70-3	Dibenzo(a,h)anthracene	39.2	U	39.2	258
191-24-2	Benzo(g,h,i)perylene	38.2	U	38.2	258
98-86-2	Acetophenone	95.6	U	95.6	258
95-94-3	1,2,4,5-Tetrachlorobenzene	44.9	U	44.9	258
86-74-8	Carbazole	51.6	U	51.6	258
105-60-2	Caprolactam	134	U	134	258
92-52-4	1,1'-Biphenyl	58.3	U	58.3	258
1912-24-9	Atrazine	75.5	U	75.5	258
100-52-7	Benzaldehyde	43	U	43	258

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-16

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584312 Lab File ID: 84312.D

Sample wt/vol: 25.38 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1720

PercentSolids: 80.1 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC11 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	65.9	U	65.9	266
108-95-2	Phenol	63.9	U	63.9	1310
95-57-8	2-Chlorophenol	67.9	U	67.9	266
108-60-1	2,2'-Oxybis(1-chloropropane)	216	U	216	266
95-48-7	2-Methylphenol	94.4	U	94.4	263
67-72-1	Hexachloroethane	49.2	U	49.2	266
621-64-7	N-Nitroso-di-n-propylamine	60	U	60	266
106-44-5	4-Methylphenol	58	U	58	266
98-95-3	Nitrobenzene	59	U	59	266
78-59-1	Isophorone	58	U	58	266
88-75-5	2-Nitrophenol	70.8	U	70.8	266
105-67-9	2,4-Dimethylphenol	56.1	U	56.1	263
111-91-1	Bis(2-chloroethoxy)methane	56.1	U	56.1	263
120-83-2	2,4-Dichlorophenol	73.8	U	73.8	263
91-20-3	Naphthalene	431		63	266
106-47-8	4-Chloroaniline	62	U	62	266
91-57-6	2-Methylnaphthalene	81.5	J	57.1	266
87-68-3	Hexachlorobutadiene	57.1	U	57.1	266
59-50-7	4-Chloro-3-methylphenol	55.1	U	55.1	266
77-47-4	Hexachlorocyclopentadiene	39.4	U	39.4	656
88-06-2	2,4,6-Trichlorophenol	66.9	U	66.9	263
95-95-4	2,4,5-Trichlorophenol	72.8	U	72.8	263
91-58-7	2-Chloronaphthalene	65.6	U	65.6	266
88-74-4	2-Nitroaniline	56.1	U	56.1	266
208-96-8	Acenaphthylene	86.3	J	54.1	266
131-11-3	Dimethylphthalate	58	U	58	266

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-16

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584312 Lab File ID: 84312.D

Sample wt/vol: 25.38 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1720

PercentSolids: 80.1 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC11 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
606-20-2	2,6-Dinitrotoluene	49.2	U	49.2	266
83-32-9	Acenaphthene	48.2	U	48.2	266
99-09-2	3-Nitroaniline	78.7	U	78.7	263
51-28-5	2,4-Dinitrophenol	216	U	216	1320
132-64-9	Dibenzofuran	77.6	J	53.1	266
121-14-2	2,4-Dinitrotoluene	48.2	U	48.2	266
100-02-7	4-Nitrophenol	52.1	U	52.1	656
86-73-7	Fluorene	66.6	J	50.2	266
7005-72-3	4-Chlorophenyl-phenylether	50.2	U	50.2	266
84-66-2	Diethylphthalate	50.2	U	50.2	266
100-01-6	4-Nitroaniline	86.6	U	86.6	263
534-52-1	4,6-Dinitro-2-methylphenol	262	U	262	266
86-30-6	N-Nitrosodiphenylamine	62	U	62	263
101-55-3	4-Bromophenyl-phenylether	48.2	U	48.2	266
118-74-1	Hexachlorobenzene	52.1	U	52.1	263
87-86-5	Pentachlorophenol	131	U	131	266
85-01-8	Phenanthrene	314		55.1	266
120-12-7	Anthracene	152	J	59	266
84-74-2	Di-n-butylphthalate	43.3	U	43.3	266
206-44-0	Fluoranthene	710		47.2	266
129-00-0	Pyrene	610		90.5	266
85-68-7	Butylbenzylphthalate	62	U	62	266
91-94-1	3,3'-Dichlorobenzidine	58	U	58	266
56-55-3	Benzo(a)anthracene	414		56.1	266
218-01-9	Chrysene	438		33.4	263
117-81-7	Bis(2-ethylhexyl)phthalate	81.6	U	81.6	266

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-16

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584312 Lab File ID: 84312.D

Sample wt/vol: 25.38 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/04/12 Time: 1720

PercentSolids: 80.1 decanted : _____ Dilution Factor: 1

Extraction: OTHER Station ID: EPAFMC11 Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-84-0	Di-n-octylphthalate	57.1	U	57.1	266
205-99-2	Benzo(b)fluoranthene	410		62	266
207-08-9	Benzo(k)fluoranthene	329		56.1	266
50-32-8	Benzo(a)pyrene	303		42.3	266
193-39-5	Indeno(1,2,3-cd)pyrene	145	J	51.1	266
53-70-3	Dibenzo(a,h)anthracene	40.3	U	40.3	266
191-24-2	Benzo(g,h,i)perylene	164	J	39.4	266
98-86-2	Acetophenone	98.4	U	98.4	266
95-94-3	1,2,4,5-Tetrachlorobenzene	46.2	U	46.2	266
86-74-8	Carbazole	79.3	J	53.1	266
105-60-2	Caprolactam	138	U	138	266
92-52-4	1,1'-Biphenyl	60	U	60	266
1912-24-9	Atrazine	77.7	U	77.7	266
100-52-7	Benzaldehyde	44.3	U	44.3	266

DRAFT

8270 QC Summary

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
128824MB

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392

Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 128824MB Lab File ID: 9300MB.D

Sample wt/vol: 20.34 Units: G Date Received: 05/03/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/03/12 Time: 1403

PercentSolids: 100 decanted : (_____) Dilution Factor: 1

Extraction: OTHER Station ID: _____ Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
111-44-4	Bis(2-chloroethyl)ether	65.9	U	65.9	265
108-95-2	Phenol	63.9	U	63.9	1310
95-57-8	2-Chlorophenol	67.8	U	67.8	265
108-60-1	2,2'-Oxybis(1-chloropropane)	216	U	216	265
95-48-7	2-Methylphenol	94.4	U	94.4	262
67-72-1	Hexachloroethane	49.2	U	49.2	265
621-64-7	N-Nitroso-di-n-propylamine	60	U	60	265
106-44-5	4-Methylphenol	58	U	58	265
98-95-3	Nitrobenzene	59	U	59	265
78-59-1	Isophorone	58	U	58	265
88-75-5	2-Nitrophenol	70.8	U	70.8	265
105-67-9	2,4-Dimethylphenol	56	U	56	262
111-91-1	Bis(2-chloroethoxy)methane	56	U	56	262
120-83-2	2,4-Dichlorophenol	73.7	U	73.7	262
91-20-3	Naphthalene	62.9	U	62.9	265
106-47-8	4-Chloroaniline	61.9	U	61.9	265
91-57-6	2-Methylnaphthalene	57	U	57	265
87-68-3	Hexachlorobutadiene	57	U	57	265
59-50-7	4-Chloro-3-methylphenol	55.1	U	55.1	265
77-47-4	Hexachlorocyclopentadiene	39.3	U	39.3	656
88-06-2	2,4,6-Trichlorophenol	66.9	U	66.9	262
95-95-4	2,4,5-Trichlorophenol	72.8	U	72.8	262
91-58-7	2-Chloronaphthalene	65.6	U	65.6	265
88-74-4	2-Nitroaniline	56	U	56	265
208-96-8	Acenaphthylene	54.1	U	54.1	265
131-11-3	Dimethylphthalate	58	U	58	265
606-20-2	2,6-Dinitrotoluene	49.2	U	49.2	265

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
128824MB

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 128824MB Lab File ID: 9300MB.D

Sample wt/vol: 20.34 Units: G Date Received: 05/03/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/03/12 Time: 1403

PercentSolids: 100 decanted : (_____ Dilution Factor: 1

Extraction: OTHER Station ID: _____ Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
83-32-9	Acenaphthene	48.2	U	48.2	265
99-09-2	3-Nitroaniline	78.7	U	78.7	262
51-28-5	2,4-Dinitrophenol	216	U	216	1320
132-64-9	Dibenzofuran	53.1	U	53.1	265
121-14-2	2,4-Dinitrotoluene	48.2	U	48.2	265
100-02-7	4-Nitrophenol	52.1	U	52.1	656
86-73-7	Fluorene	50.1	U	50.1	265
7005-72-3	4-Chlorophenyl-phenylether	50.1	U	50.1	265
84-66-2	Diethylphthalate	50.1	U	50.1	265
100-01-6	4-Nitroaniline	86.5	U	86.5	262
534-52-1	4,6-Dinitro-2-methylphenol	262	U	262	265
86-30-6	N-Nitrosodiphenylamine	61.9	U	61.9	262
101-55-3	4-Bromophenyl-phenylether	48.2	U	48.2	265
118-74-1	Hexachlorobenzene	52.1	U	52.1	262
87-86-5	Pentachlorophenol	131	U	131	265
85-01-8	Phenanthrene	55.1	U	55.1	265
120-12-7	Anthracene	59	U	59	265
84-74-2	Di-n-butylphthalate	43.3	U	43.3	265
206-44-0	Fluoranthene	47.2	U	47.2	265
129-00-0	Pyrene	90.5	U	90.5	265
85-68-7	Butylbenzylphthalate	61.9	U	61.9	265
91-94-1	3,3'-Dichlorobenzidine	58	U	58	265
56-55-3	Benzo(a)anthracene	56	U	56	265
218-01-9	Chrysene	33.4	U	33.4	262
117-81-7	Bis(2-ethylhexyl)phthalate	144	J	81.6	265
117-84-0	Di-n-octylphthalate	57	U	57	265
205-99-2	Benzo(b)fluoranthene	61.9	U	61.9	265

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
128824MB

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392

Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 128824MB Lab File ID: 9300MB.D

Sample wt/vol: 20.34 Units: G Date Received: 05/03/12

Concentrated Extract Volume: 1 Date Extracted: 05/03/12

Level:(low/med) LOW Date Analyzed: 05/03/12 Time: 1403

PercentSolids: 100 decanted : (_____) Dilution Factor: 1

Extraction: OTHER Station ID: _____ Method: 8270

GPC Cleanup : (Y/N) N pH: _____

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
207-08-9	Benzo(k)fluoranthene	56	U	56	265
50-32-8	Benzo(a)pyrene	42.3	U	42.3	265
193-39-5	Indeno(1,2,3-cd)pyrene	51.1	U	51.1	265
53-70-3	Dibenzo(a,h)anthracene	40.3	U	40.3	265
191-24-2	Benzo(g,h,i)perylene	39.3	U	39.3	265
98-86-2	Acetophenone	98.3	U	98.3	265
95-94-3	1,2,4,5-Tetrachlorobenzene	46.2	U	46.2	265
86-74-8	Carbazole	53.1	U	53.1	265
105-60-2	Caprolactam	138	U	138	265
92-52-4	1,1'-Biphenyl	60	U	60	265
1912-24-9	Atrazine	77.7	U	77.7	265
100-52-7	Benzaldehyde	44.2	U	44.2	265

SOIL SEMI-VOLATILE ORGANIC SURROGATE RECOVERY

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1Lab Code : PEL Case No. SAS No: SDG NO.: 3505843Column(1): HPMS-5 ID: 0.25 (mm)

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
128824MB	79.3	76.4	77.2	72.0	87.2	91.1	0
128825LCS	73.1	72.7	76.1	79.8	94.7	76.1	0
EPAFMC-SD-07	69.3	67.4	55.7	53.4	77.3	63.6	0
EPAFMC-SD-07MS	67.0	68.6	65.3	64.9	84.2	70.2	0
EPAFMC-SD-07SD	58.3	59.0	51.1	49.6	62.0	50.8	0
EPAFMC-SD-08	62.1	61.3	62.6	59.6	66.5	70.4	0
EPAFMC-SD-09	51.9	52.9	45.1	41.2	55.8	47.9	0
EPAFMC-SD-10	61.3	60.7	54.3	47.7	66.5	63.0	0
EPAFMC-SD-11	61.5	62.1	55.1	48.0	68.2	56.3	0
EPAFMC-SD-12	51.5	51.7	50.4	42.5	59.1	50.9	0
EPAFMC-SD-13	34.6	50.2	57.1	53.1	68.3	82.7	0
EPAFMC-SD-14	51.3	53.2	12.9 *	22.6 *	58.2	59.5	2
EPAFMC-SD-15	39.7	45.8	11.6 *	15.3 *	52.7	46.0	2
EPAFMC-SD-16	61.0	61.8	59.3	54.1	74.6	67.5	0

Control Limits

S1 = 2-Fluorophenol	25 - 121
S2 = Phenol-d5	24 - 113
S3 = Nitrobenzene-d5	23 - 120
S4 = 2-Fluorobiphenyl	30 - 115
S5 = 2,4,6-Tribromophenol	19 - 122
S6 = p-Terphenyl-d14	18 - 137

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

Control limit source: (lab/method) METHOD

SEMI-VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1 128825LCS

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	LCS CONCENTRATION ug/Kg	LCS % REC #	LCS % RPD	QC LIMITS	
					RPD	REC.
Bis(2-chloroethyl)ether	1980	1550	78.3			58 - 124
Phenol	1980	1380	69.7			39 - 127
2-Chlorophenol	1980	1430	72.2			42 - 113
2,2'-Oxybis(1-chloropropane)	1980	1350	68.2			42 - 139
2-Methylphenol	1980	1330	67.2			55 - 112
Hexachloroethane	1980	1420	71.7			51 - 120
N-Nitroso-di-n-propylamine	1980	1840	92.9			58 - 121
4-Methylphenol	1980	1710	86.4			48 - 127
Nitrobenzene	1980	1480	74.7			56 - 114
Isophorone	1980	1870	94.4			75 - 135
2-Nitrophenol	1980	1460	73.7			50 - 110
2,4-Dimethylphenol	1980	1600	80.8			43 - 125
Bis(2-chloroethoxy)methane	1980	1550	78.3			67 - 117
2,4-Dichlorophenol	1980	1510	76.3			50 - 120
Naphthalene	1980	1520	76.8			54 - 123
4-Chloroaniline	1980	1430	72.2			15 - 110
2-Methylnaphthalene	1980	1520	76.8			63 - 118
Hexachlorobutadiene	1980	1630	82.3			64 - 114
4-Chloro-3-methylphenol	1980	1670	84.3			48 - 114
Hexachlorocyclopentadiene	1980	1060	53.5			33 - 113
2,4,6-Trichlorophenol	1980	1520	76.8			49 - 120
2,4,5-Trichlorophenol	1980	1800	90.9			69 - 110
2-Chloronaphthalene	1980	1550	78.3			67 - 120
2-Nitroaniline	1980	1900	96.0			52 - 133
Acenaphthylene	1980	1690	85.4			57 - 123
Dimethylphthalate	1980	1780	89.9			72 - 116
2,6-Dinitrotoluene	1980	1670	84.3			63 - 120
Acenaphthene	1980	1530	77.3			61 - 112
3-Nitroaniline	1980	1720	86.9			62 - 119
2,4-Dinitrophenol	3960	3150	79.5			15 - 150
Dibenzofuran	1980	1700	85.9			64 - 120
2,4-Dinitrotoluene	1980	1740	87.9			64 - 113

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

SEMI-VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1 128825LCS

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	LCS CONCENTRATION ug/Kg	LCS % REC #	LCS % RPD	QC LIMITS	
					RPD	REC.
4-Nitrophenol	1980	2000	101.0			10 - 162
Fluorene	1980	1710	86.4			57 - 118
4-Chlorophenyl-phenylether	1980	1730	87.4			69 - 120
Diethylphthalate	1980	1820	91.9			63 - 126
4-Nitroaniline	1980	1910	96.5			61 - 123
4,6-Dinitro-2-methylphenol	1980	1490	75.3			31 - 120
N-Nitrosodiphenylamine	1980	1650	83.3			72 - 122
4-Bromophenyl-phenylether	1980	1600	80.8			72 - 111
Hexachlorobenzene	1980	1520	76.8			66 - 110
Pentachlorophenol	1980	1930	97.5			25 - 138
Phenanthrene	1980	1660	83.8			61 - 118
Anthracene	1980	1680	84.8			65 - 118
Di-n-butylphthalate	1980	1740	87.9			72 - 122
Fluoranthene	1980	1780	89.9			66 - 119
Pyrene	1980	1590	80.3			62 - 117
Butylbenzylphthalate	1980	1700	85.9			69 - 127
3,3'-Dichlorobenzidine	3960	2350	59.3			20 - 110
Benzo(a)anthracene	1980	1680	84.8			66 - 120
Chrysene	1980	1580	79.8			64 - 113
Bis(2-ethylhexyl)phthalate	1980	3200	162.0*			68 - 126
Di-n-octylphthalate	1980	1930	97.5			69 - 131
Benzo(b)fluoranthene	1980	2060	104.0			61 - 114
Benzo(k)fluoranthene	1980	1790	90.4			61 - 121
Benzo(a)pyrene	1980	1800	90.9			66 - 111
Indeno(1,2,3-cd)pyrene	1980	1780	89.9			52 - 120
Dibenzo(a,h)anthracene	1980	1810	91.4			53 - 120
Benzo(g,h,i)perylene	1980	1750	88.4			55 - 122
Acetophenone	3960	3100	78.3			32 - 114
1,2,4,5-Tetrachlorobenzene	1980	1430	72.2			51 - 110
Carbazole	1980	1910	96.5			66 - 125
Caprolactam	1980	1620	81.8			10 - 150
1,1'-Biphenyl	1980	1450	73.2			10 - 150

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

SEMI-VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

DRAFT

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1 EPA Sample No. 128825LCS

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	LCS CONCENTRATION ug/Kg	LCS % REC #	LCS % RPD	QC LIMITS	
					RPD	REC.
Atrazine	1980	1420	71.7			10 - 191
Benzaldehyde	1980	1110	56.1			10 - 158

Spike Recovery: 1 out of 66 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.
EPAFMC-SD-07MS

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek /

Lab Code : PEL Case No.: SAS No: SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC #	QC LIMITS REC.
Bis(2-chloroethyl)ether	2100	0	1600	73.8	30 - 126
Phenol	2100	0	1400	68.6	30 - 129
2-Chlorophenol	2100	0	1400	65.7	16 - 113
2,2'-Oxybis(1-chloropropane)	2100	0	1200	59.0	20 - 123
2-Methylphenol	2100	0	1400	67.1	27 - 117
Hexachloroethane	2100	0	1200	57.1	24 - 120
N-Nitroso-di-n-propylamine	2100	0	1800	83.8	22 - 128
4-Methylphenol	2100	88	1800	80.6	30 - 150
Nitrobenzene	2100	0	1300	62.9	14 - 129
Isophorone	2100	0	1800	87.6	35 - 144
2-Nitrophenol	2100	0	1200	58.6	14 - 113
2,4-Dimethylphenol	2100	0	1600	76.7	30 - 110
Bis(2-chloroethoxy)methane	2100	0	1500	72.4	31 - 126
2,4-Dichlorophenol	2100	0	1500	70.5	18 - 115
Naphthalene	2100	0	1500	72.4	29 - 119
4-Chloroaniline	2100	0	1600	74.8	30 - 143
2-Methylnaphthalene	2100	0	1400	69.0	33 - 120
Hexachlorobutadiene	2100	0	1500	70.0	32 - 120
4-Chloro-3-methylphenol	2100	0	1600	76.2	30 - 123
Hexachlorocyclopentadiene	2100	0	130	6.1 *	10 - 119
2,4,6-Trichlorophenol	2100	0	1400	66.2	14 - 118
2,4,5-Trichlorophenol	2100	0	1700	81.9	29 - 125
2-Chloronaphthalene	2100	0	1400	67.1	31 - 118
2-Nitroaniline	2100	0	1700	80.5	22 - 134
Acenaphthylene	2100	0	1500	72.9	26 - 123
Dimethylphthalate	2100	0	1700	79.5	33 - 127
2,6-Dinitrotoluene	2100	0	1500	69.5	26 - 123
Acenaphthene	2100	0	1400	69.0	30 - 135
3-Nitroaniline	2100	0	1700	79.0	20 - 125
2,4-Dinitrophenol	4200	0	0	0.0 *	15 - 150

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.
EPAFMC-SD-07MS

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek /

Lab Code : PEL Case No.: SAS No.: SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC #	QC LIMITS REC.
Dibenzofuran	2100	0	1600	74.8	31 - 123
2,4-Dinitrotoluene	2100	0	1500	71.0	17 - 127
4-Nitrophenol	2100	0	1700	81.4	30 - 135
Fluorene	2100	0	1600	73.8	25 - 120
4-Chlorophenyl-phenylether	2100	0	1500	72.9	10 - 119
Diethylphthalate	2100	0	1700	80.0	30 - 127
4-Nitroaniline	2100	0	1900	90.0	10 - 150
4,6-Dinitro-2-methylphenol	2100	0	560	26.7*	40 - 130
N-Nitrosodiphenylamine	2100	0	1500	71.0	31 - 137
4-Bromophenyl-phenylether	2100	0	1400	68.1	31 - 129
Hexachlorobenzene	2100	0	1300	63.8	30 - 118
Pentachlorophenol	2100	0	1600	74.8	30 - 113
Phenanthrene	2100	230	1600	64.8	28 - 121
Anthracene	2100	76	1500	68.8	31 - 121
Di-n-butylphthalate	2100	0	1600	73.8	34 - 132
Fluoranthene	2100	780	1800	50.2	29 - 125
Pyrene	2100	670	1800	52.5	31 - 125
Butylbenzylphthalate	2100	0	1600	77.1	29 - 149
3,3'-Dichlorobenzidine	4200	0	2400	57.6	20 - 110
Benzo(a)anthracene	2100	450	1700	58.1	30 - 117
Chrysene	2100	490	1700	55.8	32 - 115
Bis(2-ethylhexyl)phthalate	2100	0	1700	81.4	32 - 138
Di-n-octylphthalate	2100	0	1700	81.4	30 - 150
Benzo(b)fluoranthene	2100	530	2000	68.8	23 - 128
Benzo(k)fluoranthene	2100	420	1600	57.1	31 - 120
Benzo(a)pyrene	2100	400	1800	66.2	31 - 121
Indeno(1,2,3-cd)pyrene	2100	200	1600	65.5	28 - 118
Dibenzo(a,h)anthracene	2100	72	1500	69.4	28 - 118
Benzo(g,h,i)perylene	2100	230	1500	59.9	28 - 120
Acetophenone	4200	0	3000	71.0	27 - 112

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / EPA Sample No. EPAFMC-SD-07MS
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC #	QC LIMITS REC.
1,2,4,5-Tetrachlorobenzene	2100	0	1400	65.2	47 - 110
Carbazole	2100	0	1700	79.5	34 - 133
Caprolactam	2100	0	1800	86.7	10 - 150
1,1'-Biphenyl	2100	0	1300	61.0	30 - 152
Atrazine	2100	0	1300	63.3	10 - 149
Benzaldehyde	2100	0	1200	57.1	10 - 140

Spike Recovery: 3 out of 66 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Cre

EPAFMC-SD-07SD

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	MSD CONCENTRATION ug/Kg	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
Bis(2-chloroethyl)ether	2100	1400	65.4	11.6	30	30 - 126
Phenol	2100	1300	60.2	12.5	30	30 - 129
2-Chlorophenol	2100	1200	57.8	12.3	30	16 - 113
2,2'-Oxybis(1-chloropropane)	2100	1000	48.8	18.5	30	20 - 123
2-Methylphenol	2100	1200	55.9	17.8	30	27 - 117
Hexachloroethane	2100	930	44.3	24.9	30	24 - 120
N-Nitroso-di-n-propylamine	2100	1400	66.4	22.8	30	22 - 128
4-Methylphenol	2100	1500	68.8	14.5	30	30 - 150
Nitrobenzene	2100	1100	53.6	15.5	30	14 - 129
Isophorone	2100	1500	69.2	23.0	30	35 - 144
2-Nitrophenol	2100	980	46.4	22.6	30	14 - 113
2,4-Dimethylphenol	2100	1300	63.0	19.0	30	30 - 110
Bis(2-chloroethoxy)methane	2100	1200	59.2	19.5	30	31 - 126
2,4-Dichlorophenol	2100	1200	58.8	17.6	30	18 - 115
Naphthalene	2100	1200	59.2	19.5	30	29 - 119
4-Chloroaniline	2100	1200	55.9	28.4	30	30 - 143
2-Methylnaphthalene	2100	1200	55.9	20.5	30	33 - 120
Hexachlorobutadiene	2100	1100	53.6	26.2	30	32 - 120
4-Chloro-3-methylphenol	2100	1400	64.5	16.2	30	30 - 123
Hexachlorocyclopentadiene	2100	0	0.0*	200.0*	30	10 - 119
2,4,6-Trichlorophenol	2100	1200	56.4	15.5	30	14 - 118
2,4,5-Trichlorophenol	2100	1400	65.9	21.2	30	29 - 125
2-Chloronaphthalene	2100	1100	53.6	22.0	30	31 - 118
2-Nitroaniline	2100	1400	66.4	18.8	30	22 - 134
Acenaphthylene	2100	1200	56.9	24.2	30	26 - 123
Dimethylphthalate	2100	1300	63.0	22.7	30	33 - 127
2,6-Dinitrotoluene	2100	1200	54.5	23.8	30	26 - 123
Acenaphthene	2100	1100	54.0	23.9	30	30 - 135
3-Nitroaniline	2100	1300	61.1	25.1	30	20 - 125
2,4-Dinitrophenol	4200	0	0.0*		30	15 - 150

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Cre

EPAFMC-SD-07SD

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	MSD CONCENTRATION ug/Kg	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
Dibenzofuran	2100	1200	56.9	26.7	30	31 - 123
2,4-Dinitrotoluene	2100	1200	54.5	25.8	30	17 - 127
4-Nitrophenol	2100	1400	65.9	20.6	30	30 - 135
Fluorene	2100	1200	55.9	27.1	30	25 - 120
4-Chlorophenyl-phenylether	2100	1100	54.0	29.2	30	10 - 119
Diethylphthalate	2100	1300	63.0	23.3	30	30 - 127
4-Nitroaniline	2100	1500	73.0	20.4	30	10 - 150
4,6-Dinitro-2-methylphenol	2100	670	31.8 *	17.9	30	40 - 130
N-Nitrosodiphenylamine	2100	1200	55.9	23.2	30	31 - 137
4-Bromophenyl-phenylether	2100	1100	51.7	27.0	30	31 - 129
Hexachlorobenzene	2100	1000	49.3	25.2	30	30 - 118
Pentachlorophenol	2100	1200	55.5	29.2	30	30 - 113
Phenanthrene	2100	1300	48.8	23.2	30	28 - 121
Anthracene	2100	1200	53.8	22.7	30	31 - 121
Di-n-butylphthalate	2100	1200	55.5	27.9	30	34 - 132
Fluoranthene	2100	1600	40.0	12.1	30	29 - 125
Pyrene	2100	1600	43.7	10.7	30	31 - 125
Butylbenzylphthalate	2100	1200	58.3	27.4	30	29 - 149
3,3'-Dichlorobenzidine	4200	1900	44.3	25.6	30	20 - 110
Benzo(a)anthracene	2100	1400	47.4	14.1	30	30 - 117
Chrysene	2100	1400	43.2	17.0	30	32 - 115
Bis(2-ethylhexyl)phthalate	2100	1300	63.0	25.0	30	32 - 138
Di-n-octylphthalate	2100	1300	60.7	28.8	30	30 - 150
Benzo(b)fluoranthene	2100	1600	52.8	18.3	30	23 - 128
Benzo(k)fluoranthene	2100	1300	39.8	25.0	30	31 - 120
Benzo(a)pyrene	2100	1500	51.7	18.3	30	31 - 121
Indeno(1,2,3-cd)pyrene	2100	1200	49.6	23.3	30	28 - 118
Dibenzo(a,h)anthracene	2100	1200	53.0	25.0	30	28 - 118
Benzo(g,h,i)perylene	2100	1200	46.8	19.9	30	28 - 120
Acetophenone	4200	2600	60.7	15.2	30	27 - 112

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Cre

EPAFMC-SD-07SD

Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	MSD CONCENTRATION ug/Kg	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
1,2,4,5-Tetrachlorobenzene	2100	1100	51.7	22.8	30	47 - 110
Carbazole	2100	1300	63.0	22.7	30	34 - 133
Caprolactam	2100	1700	79.1	8.6	30	10 - 150
1,1'-Biphenyl	2100	1100	51.7	16.0	30	30 - 152
Atrazine	2100	1200	57.8	8.6	30	10 - 149
Benzaldehyde	2100	1200	55.5	2.5	30	10 - 140

RPD: 1 out of 66 outside limits

Spike Recovery: 3 out of 66 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

DRAFT

8082 PCB Organics

**CASE NARRATIVE
POLYCHLORINATED BIPHENYLS (PCB) SEMIVOLATILE ORGANIC**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

EPA SW846 8082 for Aroclor analysis

IV. PREPARATION

Soil samples were prepared by SW846 EPA 3550 for 8082 semi-volatile analysis.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

Please note CCV1074115 was below criteria at 20.3% for one peak used to quantify Aroclor-1016 on column STX-CLP1, however the total for this Aroclor passed criteria at 9.8%, meeting QC requirements.

Please note CCV1074823 was below criteria at 25.1% for one peak used to quantify Aroclor-1016 and 20.6% for one peak used to quantify Aroclor-1260 on column STX-CLP1, however the total for these Aroclors passed criteria, meeting QC requirements.

B. Blanks:

All acceptance criteria were met.

C. Surrogates:

All acceptance criteria were met.

D. Spikes:

PCB 1016 and PCB 1260 were used as the spiking solution for all QC spikes.

1. Laboratory Control Spikes (LCS)

All acceptance criteria were met

2. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

**CASE NARRATIVE
POLYCHLORINATED BIPHENYLS (PCB) SEMIVOLATILE ORGANIC**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

No spikes requested by client.

E. Internal Standards:

This method does not require the use of internal standards.

F. Samples:

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.



SIGNED:

DATE: 05/08/2012

PCB ORGANIC CROSS REFERENCE TABLE

DRAFT

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392
Lab Code : PEL Case No. SAS No: SDG No.: 3505843
Method: 8082

EPA Sample No

Lab Sample ID

<u>EPAFMC-SD-08</u>	<u>350584304</u>
<u>EPAFMC-SD-12</u>	<u>350584308</u>
<u>EPAFMC-SD-16</u>	<u>350584312</u>

DRAFT

8082 Sample Data

PCB ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-08

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584304 Lab File ID: 843-4R.D

Sample wt/vol: 33.33 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 10 Date Extracted: 04/27/12

Level:(low/med) LOW Date Analyzed: 04/30/12 Time: 1116

PercentSolids: 97.1 decanted : _____ Dilution Factor: 1

Extraction: SONC Station ID: EPAFMC07 Method: 8082

GPC Cleanup : (Y/N) N pH: _____

Column(1): STX-CLP1 ID: 0.32 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	13	U	13	30
11096-82-5	Aroclor-1260	21	J	7.1	30
11104-28-2	Aroclor-1221	12	U	12	30
11141-16-5	Aroclor-1232	20	U	20	30
53469-21-9	Aroclor-1242	11	U	11	30
12672-29-6	Aroclor-1248	11	U	11	30
11097-69-1	Aroclor-1254	9.7	U	9.7	30

PCB ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-12

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584308 Lab File ID: 843-8R.D

Sample wt/vol: 33.5 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 10 Date Extracted: 04/27/12

Level:(low/med) LOW Date Analyzed: 04/30/12 Time: 1131

PercentSolids: 84.4 decanted : _____ Dilution Factor: 1

Extraction: SONC Station ID: EPAFMC11 Method: 8082

GPC Cleanup : (Y/N) N pH: _____

Column(1): STX-CLP1 ID: 0.32 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	15	U	15	35
11096-82-5	Aroclor-1260	8.2	U	8.2	35
11104-28-2	Aroclor-1221	14	U	14	35
11141-16-5	Aroclor-1232	23	U	23	35
53469-21-9	Aroclor-1242	13	U	13	35
12672-29-6	Aroclor-1248	13	U	13	35
11097-69-1	Aroclor-1254	11	U	11	35

PCB ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EPAFMC-SD-16

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584312 Lab File ID: 843-12.D

Sample wt/vol: 33.03 Units: G Date Received: 04/25/12

Concentrated Extract Volume: 10 Date Extracted: 04/27/12

Level:(low/med) LOW Date Analyzed: 04/27/12 Time: 2251

PercentSolids: 80.1 decanted : _____ Dilution Factor: 1

Extraction: SONC Station ID: EPAFMC11 Method: 8082

GPC Cleanup : (Y/N) N pH: _____

Column(1): STX-CLP1 ID: 0.32 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	16	U	16	37
11096-82-5	Aroclor-1260	8.7	U	8.7	37
11104-28-2	Aroclor-1221	15	U	15	37
11141-16-5	Aroclor-1232	25	U	25	37
53469-21-9	Aroclor-1242	14	U	14	37
12672-29-6	Aroclor-1248	14	U	14	37
11097-69-1	Aroclor-1254	12	U	12	37

DRAFT

8082 QC Summary

PCB ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
127811MB

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1392

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 127811MB Lab File ID: 9229MB.D

Sample wt/vol: 33.15 Units: G Date Received: 04/27/12

Concentrated Extract Volume: 10 Date Extracted: 04/27/12

Level:(low/med) LOW Date Analyzed: 04/27/12 Time: 1919

PercentSolids: 100 decanted : (_____ Dilution Factor: 1

Extraction: SONC Station ID: _____ Method: 8082

GPC Cleanup : (Y/N) N pH: _____

Column(1): STX-CLP1 ID: 0.32 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	13	U	13	30
11096-82-5	Aroclor-1260	7	U	7	30
11104-28-2	Aroclor-1221	12	U	12	30
11141-16-5	Aroclor-1232	20	U	20	30
53469-21-9	Aroclor-1242	11	U	11	30
12672-29-6	Aroclor-1248	11	U	11	30
11097-69-1	Aroclor-1254	9.4	U	9.4	30

2A

SOIL PCB ORGANIC SURROGATE RECOVERY

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1

Lab Code : PEL Case No. SAS No: SDG NO.: 3505843

Column(1): STX-CLP1 ID: 0.32 (mm)

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
127811MB	83.8						0
127812LCS	81.7						0
EPAFMC-SD-08	104.0						0
EPAFMC-SD-12	79.9						0
EPAFMC-SD-16	67.2						0

Control Limits

S1 = Decachlorobiphenyl

33 - 140

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

Control limit source: (lab/method) METHOD

Form II

100512 1516

PCB ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 1 127812LCS

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3505843

COMPOUND	SPIKE ADDED ug/Kg	LCS CONCENTRATION ug/Kg	LCS % REC #	LCS % RPD	QC LIMITS	
					RPD	REC.
Aroclor-1016	295	207	70.2			43 - 137
Aroclor-1260	295	203	68.8			48 - 154

Spike Recovery: 0 out of 2 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

DRAFT

Inorganics

Inorganic Data Qualifiers

C (Concentration) Qualifier - Entries and their meanings are:

- J** The reported value obtained was less than the RL but greater than or equal to the MDL.
- E** The reported value obtained was over calibration or linear range.
- U** The reported value obtained was less than the MDL or was not detected.

Q Qualifier - Entries and their meanings are:

- U** The reported value is estimated because of interference. An explanatory comment must be included under "Comments" on the Cover Page if the problem applies to all samples in this data package or on the individual FORM 1 if it is an isolated problem.
- M** Duplicate injection precision was not met (two analyses of the same sample did not agree).
- N** Spiked sample recovery not within control limits.
- E** Serial Dilution percent difference not within control limits.
- S** The reported value was determined by the Method of Standard Additions (MSA).
- W** Post-digestion spike for Furnace AA analysis is out of control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
- *** Duplicate analysis not within control limits.
- +** Correlation coefficient for the MSA is less than 0.995.
- X** The data is flagged as rejected by analyst utilizing analytical judgement.

Entering "S", "W", or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field.

M (Method) Qualifier - Enter one of the following:

- P** ICP
- A** Flame AA
- F** Furnace AA
- CV** Manual Cold Vapor AA
- TC** Total Organic Carbon
- AS** Semi-Automated Spectrophotometric
- CA** Midi-Distillation Spectrophotometric
- T** Titrimetric
- C** Manual Spectrophotometric
- GR** Gravimetric
- NR** Analyte was not required by your lab

Inorganic Sample ID Qualifiers

The qualifiers that may be appended to the lab sample ID and/or the client sample ID for inorganic analysis are defined below:

- DL** Diluted reanalysis. Indicates that the results of the original analysis of the sample contained compounds that exceeded the calculation range. The sample was diluted and reanalyzed. May be followed by a digit to indicate multiple dilutions of the sample. The results of more than one diluted reanalysis are reported.
- R** Reanalysis. The extract was reanalyzed without re-extraction. The "R" is not used if the sample was also re-extracted. May be followed by a digit to indicate multiple reanalysis of the sample at the same dilution.
- RE** Re-extracted. The extract was reanalyzed with re-extraction. May be followed by a digit to indicate multiple re-extraction of the same sample at the same dilution.
- MS** Matrix spike (may be followed by a digit to indicate multiple matrix within a sample set).
- SD** Matrix spike duplicate (may be followed by a digit to indicate multiple matrix spike duplicate within a sample set).
- A** Post Digestion Spike.
- L** Serial Dilution.

DRAFT

Metals Data Package

**CASE NARRATIVE
METALS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHOD

Analyses were performed according to the Spectrum Analytical Inc. Standard Operating Procedures and EPA Method 6010B for ICP metals.

IV. PREPARATION

Soil samples were prepared according to Spectrum Analytical Inc. Laboratory's Standard Operating Procedures and EPA Method 3050B.

Water samples were prepared according to Spectrum Analytical Inc. Laboratory's Standard Operating Procedures and EPA Method 3010A.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

1. Calibration Blanks:

All acceptance criteria were met. No action required. The following ICB/CCB(s) had element concentrations below the RL:
ICB1075515 was analyzed on 05/01/12 09:50. The following analyte(s) were detected below RL: Aluminum at 23.2 ug/L, Barium at 0.245 ug/L, Beryllium at 0.305 ug/L, Cobalt at 0.409 ug/L, Iron at 23 ug/L, Magnesium at 13.2 ug/L.
CCB1075520 was analyzed on 05/01/12 10:23. The following analyte(s) were detected below RL: Aluminum at 21.6 ug/L, Beryllium at 0.215 ug/L, Iron at 27.3 ug/L, Magnesium at 20.5 ug/L.
CCB1075532 was analyzed on 05/01/12 11:56. The following analyte(s) were detected below RL: Aluminum at 10.2 ug/L, Beryllium at 0.2 ug/L, Iron at 8.24 ug/L, Selenium at 6.92 ug/L.

ICB1076626 was analyzed on 05/03/12 09:18. The following analyte(s) were detected below RL: Aluminum at 18.1 ug/L, Barium at 0.421 ug/L, Beryllium at 0.336 ug/L, Iron at 29.8 ug/L, Magnesium at 17.5 ug/L, Nickel at 1.29 ug/L, Silver at 0.56 ug/L.

**CASE NARRATIVE
METALS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

CCB1076668 was analyzed on 05/03/12 14:05. The following analyte(s) were detected below RL: Aluminum at 16.4 ug/L, Beryllium at 0.135 ug/L, Iron at 14.9 ug/L.

CCB1076861 was analyzed on 05/03/12 15:08. The following analyte(s) were detected below RL: Aluminum at 25.7 ug/L, Barium at 0.344 ug/L, Beryllium at 0.238 ug/L, Calcium at 57.3 ug/L, Magnesium at 20.9 ug/L, Manganese at 0.982 ug/L, Selenium at 5.89 ug/L. The following analyte(s) were detected above RL: Iron at 78 ug/L. The hit in the samples for Iron is at least 10X the amount of the hit in the blank. No further action was taken.

CCB1076862 was analyzed on 05/03/12 15:12. The following analyte(s) were detected below RL: Aluminum at 13.9 ug/L, Beryllium at 0.166 ug/L, Iron at 44.2 ug/L, Magnesium at 11.2 ug/L, Manganese at 0.449 ug/L.

CCB1076874 was analyzed on 05/03/12 16:17. The following analyte(s) were detected below RL: Aluminum at 21.4 ug/L, Beryllium at 0.209 ug/L, Magnesium at 15.7 ug/L, Manganese at 0.823 ug/L. The following analyte(s) were detected above RL: Iron at 79.7 ug/L. The hit in the samples for Iron is at least 10X the amount of the hit in the blank. No further action was taken.

CCB1076887 was analyzed on 05/03/12 17:27. The following analyte(s) were detected below RL: Aluminum at 19.2 ug/L, Beryllium at 0.159 ug/L, Iron at 32.7 ug/L.

ICB1079011 was analyzed on 05/09/12 12:23. The following analyte(s) were detected below RL: Chromium at -1.12 ug/L, Manganese at -0.747 ug/L.

CCB1079030 was analyzed on 05/09/12 14:07. The following analyte(s) were detected below RL: Chromium at -1.04 ug/L, Iron at 11.3 ug/L, Manganese at -0.615 ug/L.

CCB1079043 was analyzed on 05/09/12 15:15. The following analyte(s) were detected below RL: Beryllium at 0.198 ug/L, Chromium at -1.16 ug/L, Iron at 18.6 ug/L, Manganese at -0.462 ug/L, Selenium at 4.33 ug/L.

CCB1079055 was analyzed on 05/09/12 16:19. The following analyte(s) were detected below RL: Beryllium at 0.14 ug/L, Chromium at -1.14 ug/L, Iron at 11.8 ug/L, Manganese at -0.586 ug/L, Selenium at 5.73 ug/L.

CCB1079056 was analyzed on 05/09/12 16:23. The following analyte(s) were detected below RL: Beryllium at 0.121 ug/L, Chromium at -1.05 ug/L, Manganese at -0.712 ug/L.

CCB1079069 was analyzed on 05/09/12 17:31. The following analyte(s) were detected below RL: Beryllium at 0.127 ug/L, Chromium at -1.04 ug/L, Iron at 11.4 ug/L, Manganese at -0.739 ug/L.

ICB1079258 was analyzed on 05/10/12 11:31. The following analyte(s) were detected below RL: Barium at 0.327 ug/L, Beryllium at 0.304 ug/L, Iron at 23.2 ug/L, Magnesium at 12.8 ug/L, Potassium at 78.9 ug/L.

CCB1079263 was analyzed on 05/10/12 12:00. The following analyte(s) were detected below RL: Aluminum at 15.1 ug/L, Beryllium at 0.21 ug/L, Iron at 22.1 ug/L, Magnesium at 15.6 ug/L.

**CASE NARRATIVE
METALS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

CCB1079275 was analyzed on 05/10/12 13:17. The following analyte(s) were detected below RL: Aluminum at 10.3 ug/L, Barium at 0.27 ug/L, Beryllium at 0.192 ug/L, Iron at 17.8 ug/L. The hits in the blanks are below the RL, therefore, no corrective action was taken.

2. Method Blanks:

All acceptance criteria were met with the exception of:
Blank 127829MB was analyzed with the soil samples on 05/03/12. The following analyte(s) were detected below RL: Copper at 0.224 mg/Kg, Iron at 2.44 mg/Kg.

Blank 128299MB was analyzed with the water samples on 05/01/12. The following analyte(s) were detected below RL: Calcium at 65 ug/L, Chromium at 0.457 ug/L, Iron at 8.27 ug/L. The hits in the blanks are below the RL, therefore, no corrective action was taken.
Samples coded accordingly.

C. Spikes:

1. Laboratory Control Spikes (LCS):

An LCS/LCSD set was analyzed.
All percent recovery and relative percent difference (RPD) criteria were met.

2. Post Digestion Spike:

All acceptance criteria were met.

3. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD):

A client requested MS/SD set was analyzed.
All percent recovery and relative percent difference (RPD) criteria were met with the exception of:
MS - EPAFMC-SD-07MS was analyzed with the soil samples on 05/03/12. The following analyte(s) were recovered below criteria: Cadmium at 71.5 % with criteria of (75-125), Chromium at 67.7 % with criteria of (75-125), Vanadium at 73.6 % with criteria of (75-125), Zinc at 9.9 % with criteria of (75-125) and the following analyte(s) were recovered above criteria: Aluminum at 138 % with criteria of (75-125), Magnesium at 216.3 % with criteria of (75-125).

SD - EPAFMC-SD-07SD was analyzed with the soil samples on 05/03/12. The following analyte(s) were recovered below criteria: Selenium at 69.6 % with criteria of (75-125), Zinc at 56.4 % with criteria of (75-125) and the following analyte(s) were recovered above criteria: Aluminum at 149.3 % with criteria of (75-125), Chromium at 126.7 % with criteria of (75-125), Magnesium at 148.5 % with criteria of (75-125). The following analyte(s) exceeded RPD criteria: Chromium at 23.6 % with criteria of (20), Magnesium at 21.2 % with criteria of (20), Selenium at 33.7 % with criteria of (20). The most probable cause for the MS/MSD exceeding limits is sample matrix due

**CASE NARRATIVE
METALS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

to the fact that the LCS/LCSD pass all quality control criteria. No further action was taken.

Samples coded accordingly.

D. Duplicate:

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)

E. Serial Dilution:

All acceptance criteria were met with the exception of:
Serial Dilution 350584301L was analyzed with the soil samples on 05/03/12. The following analyte(s) exceeded criteria: Potassium at 12 % with criteria of (10). The most probable cause for the SD exceeding limits is sample matrix due to the fact that the LCS/LCSD pass all quality control criteria. No further action was taken.
Samples coded accordingly.

F. ICP Interference Check Samples:

All acceptance criteria were met.

G. Samples:

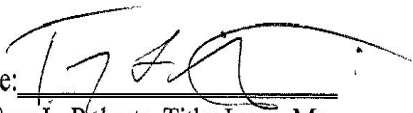
Sample analysis proceeded normally.
Sample EPAFMC-SD-07 required a 5X dilution due to high concentration of the following analyte(s): Calcium, Iron, Manganese.
Sample EPAFMC-SD-08 required a 5X dilution due to high concentration of the following analyte(s): Iron, Manganese.
Sample EPAFMC-SD-09 required a 5X dilution due to high concentration of the following analyte(s): Iron, Manganese.
Sample EPAFMC-SD-10 required a 5X dilution due to high concentration of the following analyte(s): Calcium, Iron, Manganese.
Sample EPAFMC-SD-11 required a 5X dilution due to high concentration of the following analyte(s): Manganese.
Sample EPAFMC-SD-12 required a 5X dilution due to high concentration of the following analyte(s): Copper, Manganese.
Sample EPAFMC-SD-13 required a 5X dilution due to high concentration of the following analyte(s): Manganese.
Sample EPAFMC-SD-14 required a 5X dilution due to high concentration of the following analyte(s): Iron, Manganese.
Sample EPAFMC-SD-15 required a 5X dilution due to high concentration of the following analyte(s): Calcium, Iron, Manganese.
Sample EPAFMC-SD-16 required a 5X dilution due to high concentration of the following analyte(s): Manganese.

**CASE NARRATIVE
METALS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature: 
Name: Troy L. Roberts Title: Inorg. Manager

SIGNED:

DATE: 05/10/2012

**CASE NARRATIVE
MERCURY**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

Analyses were performed according to the Spectrum Analytical Inc. Standard Operating Procedures and EPA Method 7470A.

IV. PREPARATION

Water samples were prepared according to the Spectrum Analytical Inc. Laboratory's Standard Operating Procedures and EPA Method 7470A.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

1. Calibration Blanks:

All acceptance criteria were met. No action required. The following ICB/CCB(s) had element concentrations below the RL:
CCB1073879 was analyzed on 04/26/12 15:57. The following analyte(s) were detected below RL: Mercury at -0.0383 ug/L. The hit in the blank is below the RL, therefore, no corrective action was taken.

2. Method Blanks:

All acceptance criteria were met.

C. Spikes:

1. Laboratory Control Spikes (LCS):

An LCS/LCSD set was analyzed.
All percent recovery and relative percent difference (RPD) criteria were met.

2. Post Digestion Spike:

**CASE NARRATIVE
MERCURY**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

All acceptance criteria were met.

3. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD):

No spikes requested by client.

D. Duplicate:

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)


E. Serial Dilution:

All acceptance criteria were met.

F. Samples:

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature: 
Name: Troy L. Roberts Title: Inorg. Manager

SIGNED:

DATE: 05/09/2012

**CASE NARRATIVE
MERCURY**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

Samples were analyzed according to the Spectrum Analytical Inc. Standard Operating Procedures and EPA Method 7471A.

IV. PREPARATION

Soil samples were prepared according to Spectrum Analytical Inc. Laboratory's Standard Operating Procedures and EPA Method 7471A.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

1. Calibration Blanks:

All acceptance criteria were met.

2. Method Blanks:

All acceptance criteria were met.

C. Spikes:

1. Laboratory Control Spikes (LCS):

An LCS/LCSD set was analyzed.
All percent recovery and relative percent difference (RPD) criteria were met.

2. Post Digestion Spike:

All acceptance criteria were met.

3. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD):

**CASE NARRATIVE
MERCURY**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

A client requested MS/SD set was analyzed.
All percent recovery and relative percent difference (RPD) criteria were met.

D. Duplicate:

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)

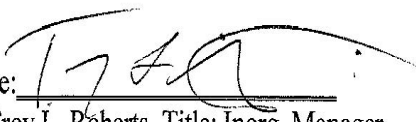
E. Serial Dilution:

All acceptance criteria were met.

F. Samples:

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature: 
Name: Troy L. Roberts Title: Inorg. Manager

SIGNED:

DATE: 05/09/2012

**CASE NARRATIVE
THALLIUM**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

Analyses were performed according to the Spectrum Analytical Inc. Standard Operating Procedures and EPA Method 7841.

IV. PREPARATION

Water samples were prepared according to PEL Laboratory's Standard Operating Procedures and EPA Method 3020.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

1. Calibration Blanks:

All acceptance criteria were met.

2. Method Blanks:

All acceptance criteria were met.

C. Spikes:

1. Laboratory Control Spikes (LCS):

An LCS/LCSD set was analyzed.
All percent recovery and relative percent difference (RPD) criteria were met.

2. Post Digestion Spike:

All acceptance criteria were met.

**CASE NARRATIVE
THALLIUM**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

3. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD):

No spikes requested by client.

D. Duplicate:

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)

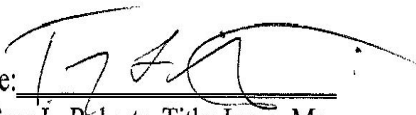
E. Serial Dilution:

All acceptance criteria were met.

F. Samples:

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature: 
Name: Troy L. Roberts Title: Inorg. Manager

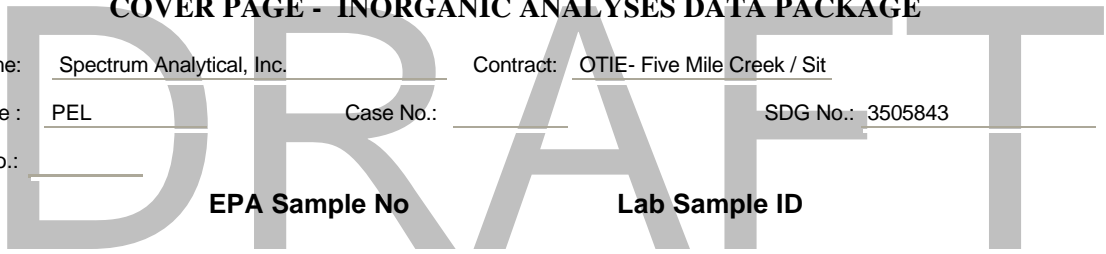
SIGNED:

DATE: 05/09/2012

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Sit
 Lab Code: PEL Case No.: _____ SDG No.: 3505843
 SOW No.: _____



EPA Sample No	Lab Sample ID
<u>EPAFMC-SD-07</u>	<u>350584301</u>
<u>EPAFMC-SD-07DL1</u>	<u>350584301DL1</u>
<u>EPAFMC-SD-08</u>	<u>350584304</u>
<u>EPAFMC-SD-08DL1</u>	<u>350584304DL1</u>
<u>EPAFMC-SD-09</u>	<u>350584305</u>
<u>EPAFMC-SD-09DL1</u>	<u>350584305DL1</u>
<u>EPAFMC-SD-10</u>	<u>350584306</u>
<u>EPAFMC-SD-10DL1</u>	<u>350584306DL1</u>
<u>EPAFMC-SD-11</u>	<u>350584307</u>
<u>EPAFMC-SD-11DL1</u>	<u>350584307DL1</u>
<u>EPAFMC-SD-12</u>	<u>350584308</u>
<u>EPAFMC-SD-12DL1</u>	<u>350584308DL1</u>
<u>EPAFMC-SD-13</u>	<u>350584309</u>
<u>EPAFMC-SD-13DL1</u>	<u>350584309DL1</u>
<u>EPAFMC-SD-14</u>	<u>350584310</u>
<u>EPAFMC-SD-14DL1</u>	<u>350584310DL1</u>
<u>EPAFMC-SD-15</u>	<u>350584311</u>
<u>EPAFMC-SD-15DL1</u>	<u>350584311DL1</u>
<u>EPAFMC-SD-16</u>	<u>350584312</u>
<u>EPAFMC-SD-16DL1</u>	<u>350584312DL1</u>
<u>EPAFMC-SW-01</u>	<u>350584313</u>
<u>EPAFMC-SW-03</u>	<u>350584314</u>

Were ICP interelement corrections applied? Yes/No Yes

Were ICP background corrections applied? Yes/No Yes
 If yes - were raw data generated before application of background corrections? Yes/No No

Comments:

DRAFT

Metals Inorganic Sample Data

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-07

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584301

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 75.5 Station ID: EPAFMC06

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	5010		N	P	1.68	8.82
7440-36-0	Antimony	0.66	J		P	0.212	0.882
7440-38-2	Arsenic	18.1			P	0.441	0.882
7440-39-3	Barium	37.2			P	0.141	0.441
7440-41-7	Beryllium	0.399	J		P	0.141	0.441
7440-43-9	Cadmium	8.64		N	P	0.0441	0.441
7440-47-3	Chromium	63.3		*N	P	0.141	0.441
7440-48-4	Cobalt	6.5			P	0.0441	0.441
7440-50-8	Copper	9.28			P	0.141	0.441
7439-92-1	Lead	21.7			P	0.3	0.705
7439-95-4	Magnesium	5340		*N	P	2.56	8.82
7439-97-6	Mercury	0.0156	J		CV	0.0046	0.0249
7440-02-0	Nickel	9.53			P	0.141	0.441
7440-09-7	Potassium	298		E	P	4.41	44.1
7782-49-2	Selenium	0.353	U	*N	P	0.353	1.76
7440-22-4	Silver	0.141	U		P	0.141	0.441
7440-23-5	Sodium	67.4			P	8.82	26.4
7440-28-0	Thallium	0.531	J		P	0.3	0.882
7440-62-2	Vanadium	58.8		N	P	0.141	0.441
7440-66-6	Zinc	142		N	P	0.291	0.882

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-07DL1

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584301DL1

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 75.5 Station ID: EPAFMC06

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7440-70-2	Calcium	15600			P	14.6	44.1
7439-89-6	Iron	34600			P	2.64	22
7439-96-5	Manganese	422			P	0.705	2.2

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-08

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: SAS No: SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584304

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 97.1 Station ID: EPAFMC07

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	5600			P	1.56	8.2
7440-36-0	Antimony	0.204	J		P	0.197	0.82
7440-38-2	Arsenic	16.1			P	0.41	0.82
7440-39-3	Barium	57.1			P	0.131	0.41
7440-41-7	Beryllium	0.577			P	0.131	0.41
7440-43-9	Cadmium	0.041	U		P	0.041	0.41
7440-70-2	Calcium	17400			P	2.7	8.2
7440-47-3	Chromium	68.2			P	0.131	0.41
7440-48-4	Cobalt	8.45			P	0.041	0.41
7440-50-8	Copper	19.3			P	0.131	0.41
7439-92-1	Lead	20.3			P	0.279	0.656
7439-95-4	Magnesium	7250			P	2.38	8.2
7439-97-6	Mercury	0.0182	J		CV	0.00361	0.0195
7440-02-0	Nickel	10.1			P	0.131	0.41
7440-09-7	Potassium	334			P	4.1	41
7782-49-2	Selenium	0.328	U		P	0.328	1.64
7440-22-4	Silver	0.131	U		P	0.131	0.41
7440-23-5	Sodium	74.2			P	8.2	24.6
7440-28-0	Thallium	0.707	J		P	0.279	0.82
7440-62-2	Vanadium	44.6			P	0.131	0.41
7440-66-6	Zinc	140			P	0.27	0.82

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-08DL1

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584304DL1

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 97.1 Station ID: EPAFMC07

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7439-89-6	Iron	42400			P	2.46	20.5
7439-96-5	Manganese	659			P	0.656	2.05

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-09

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584305

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 77.7 Station ID: EPAFMC08

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	5060			P	1.57	8.25
7440-36-0	Antimony	0.636	J		P	0.198	0.825
7440-38-2	Arsenic	23.8			P	0.412	0.825
7440-39-3	Barium	50.3			P	0.132	0.412
7440-41-7	Beryllium	0.437			P	0.132	0.412
7440-43-9	Cadmium	0.0412	U		P	0.0412	0.412
7440-70-2	Calcium	17400			P	2.72	8.25
7440-47-3	Chromium	58.8			P	0.132	0.412
7440-48-4	Cobalt	8.27			P	0.0412	0.412
7440-50-8	Copper	29			P	0.132	0.412
7439-92-1	Lead	22.2			P	0.28	0.66
7439-95-4	Magnesium	5090			P	2.39	8.25
7439-97-6	Mercury	0.0457			CV	0.00278	0.015
7440-02-0	Nickel	8.52			P	0.132	0.412
7440-09-7	Potassium	262			P	4.12	41.2
7782-49-2	Selenium	0.33	U		P	0.33	1.65
7440-22-4	Silver	0.132	U		P	0.132	0.412
7440-23-5	Sodium	140			P	8.25	24.8
7440-28-0	Thallium	0.525	J		P	0.28	0.825
7440-62-2	Vanadium	55.3			P	0.132	0.412
7440-66-6	Zinc	117			P	0.272	0.825

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

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1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-09DL1

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584305DL1

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 77.7 Station ID: EPAFMC08

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7439-89-6	Iron	43700			P	2.48	20.6
7439-96-5	Manganese	512			P	0.66	2.06

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-10

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: SAS No: SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584306

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 79.7 Station ID: EPAFMC09

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	8300			P	1.51	7.95
7440-36-0	Antimony	1.24			P	0.191	0.795
7440-38-2	Arsenic	26.7			P	0.398	0.795
7440-39-3	Barium	102			P	0.127	0.398
7440-41-7	Beryllium	1.25			P	0.127	0.398
7440-43-9	Cadmium	0.0398	U		P	0.0398	0.398
7440-47-3	Chromium	106			P	0.127	0.398
7440-48-4	Cobalt	10.8			P	0.0398	0.398
7440-50-8	Copper	11.1			P	0.127	0.398
7439-92-1	Lead	22.3			P	0.27	0.636
7439-95-4	Magnesium	6610			P	2.3	7.95
7439-97-6	Mercury	0.00858	J		CV	0.00239	0.0129
7440-02-0	Nickel	9.96			P	0.127	0.398
7440-09-7	Potassium	658			P	3.98	39.8
7782-49-2	Selenium	0.318	U		P	0.318	1.59
7440-22-4	Silver	0.127	U		P	0.127	0.398
7440-23-5	Sodium	186			P	7.95	23.8
7440-28-0	Thallium	0.686	J		P	0.27	0.795
7440-62-2	Vanadium	86.3			P	0.127	0.398
7440-66-6	Zinc	231			P	0.262	0.795

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-10DL1

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584306DL1

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 79.7 Station ID: EPAFMC09

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7440-70-2	Calcium	25200			P	13.1	39.8
7439-89-6	Iron	56200			P	2.38	19.9
7439-96-5	Manganese	1750			P	0.636	1.99

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-11

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584307

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 78.4 Station ID: EPAFMC10

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	4910			P	1.86	9.81
7440-36-0	Antimony	0.345	J		P	0.235	0.981
7440-38-2	Arsenic	13.2			P	0.49	0.981
7440-39-3	Barium	45.5			P	0.157	0.49
7440-41-7	Beryllium	0.577			P	0.157	0.49
7440-43-9	Cadmium	0.049	U		P	0.049	0.49
7440-70-2	Calcium	21400			P	3.24	9.81
7440-47-3	Chromium	47.6			P	0.157	0.49
7440-48-4	Cobalt	6.73			P	0.049	0.49
7440-50-8	Copper	6.49			P	0.157	0.49
7439-89-6	Iron	28000			P	0.589	4.9
7439-92-1	Lead	14.2			P	0.334	0.785
7439-95-4	Magnesium	6810			P	2.84	9.81
7439-97-6	Mercury	0.021			CV	0.00335	0.0181
7440-02-0	Nickel	7.28			P	0.157	0.49
7440-09-7	Potassium	343			P	4.9	49
7782-49-2	Selenium	0.392	U		P	0.392	1.96
7440-22-4	Silver	0.157	U		P	0.157	0.49
7440-23-5	Sodium	95.8			P	9.81	29.4
7440-28-0	Thallium	0.334	U		P	0.334	0.981
7440-62-2	Vanadium	44.1			P	0.157	0.49

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-11

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584307

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 78.4 Station ID: EPAFMC10

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7440-66-6	Zinc	100			P	0.324	0.981

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-11DL1

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 350584307DL1
 Level:(low/med) LOW Date Received: 4/25/2012
 PercentSolids: 78.4 Station ID: EPAFMC10

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7439-96-5	Manganese	591			P	0.785	2.45

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-12

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: SAS No: SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584308

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 84.4 Station ID: EPAFMC11

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	4670			P	1.78	9.34
7440-36-0	Antimony	1.26			P	0.224	0.934
7440-38-2	Arsenic	18			P	0.467	0.934
7440-39-3	Barium	54.6			P	0.15	0.467
7440-41-7	Beryllium	0.486			P	0.15	0.467
7440-43-9	Cadmium	0.0467	U		P	0.0467	0.467
7440-70-2	Calcium	18600			P	3.08	9.34
7440-47-3	Chromium	61.3			P	0.15	0.467
7440-48-4	Cobalt	13			P	0.0467	0.467
7439-89-6	Iron	31500			P	0.561	4.67
7439-92-1	Lead	30.4			P	0.318	0.748
7439-95-4	Magnesium	6980			P	2.71	9.34
7439-97-6	Mercury	0.0256			CV	0.00375	0.0203
7440-02-0	Nickel	18.3			P	0.15	0.467
7440-09-7	Potassium	272			P	4.67	46.7
7782-49-2	Selenium	0.374	U		P	0.374	1.87
7440-22-4	Silver	0.328	J		P	0.15	0.467
7440-23-5	Sodium	80.1			P	9.34	28
7440-28-0	Thallium	0.318	U		P	0.318	0.934
7440-62-2	Vanadium	45			P	0.15	0.467
7440-66-6	Zinc	144			P	0.308	0.934

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-12DL1

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584308DL1

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 84.4 Station ID: EPAFMC11

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7440-50-8	Copper	636			P	0.748	2.34
7439-96-5	Manganese	892			P	0.748	2.34

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-13

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: SAS No: SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584309

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 78 Station ID: EPAFMC12

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	5520			P	1.98	10.4
7440-36-0	Antimony	0.735	J		P	0.25	1.04
7440-38-2	Arsenic	15.2			P	0.52	1.04
7440-39-3	Barium	49.1			P	0.166	0.52
7440-41-7	Beryllium	0.44	J		P	0.166	0.52
7440-43-9	Cadmium	0.052	U		P	0.052	0.52
7440-70-2	Calcium	19200			P	3.43	10.4
7440-47-3	Chromium	50.2			P	0.166	0.52
7440-48-4	Cobalt	10.3			P	0.052	0.52
7440-50-8	Copper	43.1			P	0.166	0.52
7439-89-6	Iron	35700			P	0.624	5.2
7439-92-1	Lead	36.1			P	0.354	0.832
7439-95-4	Magnesium	7370			P	3.02	10.4
7439-97-6	Mercury	0.167			CV	0.00256	0.0138
7440-02-0	Nickel	10.7			P	0.166	0.52
7440-09-7	Potassium	312			P	5.2	52
7782-49-2	Selenium	0.416	U		P	0.416	2.08
7440-22-4	Silver	0.166	U		P	0.166	0.52
7440-23-5	Sodium	73.6			P	10.4	31.2
7440-28-0	Thallium	0.656	J		P	0.354	1.04
7440-62-2	Vanadium	52			P	0.166	0.52

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-13

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584309

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 78 Station ID: EPAFMC12

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7440-66-6	Zinc	168			P	0.343	1.04

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-13DL1

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584309DL1

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 78 Station ID: EPAFMC12

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7439-96-5	Manganese	915			P	0.832	2.6

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-14

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584310

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 80.6 Station ID: EPAFMC13

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	3570			P	1.34	7.04
7440-36-0	Antimony	0.562	J		P	0.169	0.704
7440-38-2	Arsenic	13.9			P	0.352	0.704
7440-39-3	Barium	26.8			P	0.113	0.352
7440-41-7	Beryllium	0.437			P	0.113	0.352
7440-43-9	Cadmium	0.0352	U		P	0.0352	0.352
7440-70-2	Calcium	12400			P	2.32	7.04
7440-47-3	Chromium	45			P	0.113	0.352
7440-48-4	Cobalt	6.51			P	0.0352	0.352
7440-50-8	Copper	14.3			P	0.113	0.352
7439-92-1	Lead	15.2			P	0.239	0.563
7439-95-4	Magnesium	4680			P	2.04	7.04
7439-97-6	Mercury	0.0186			CV	0.00345	0.0186
7440-02-0	Nickel	5.7			P	0.113	0.352
7440-09-7	Potassium	126			P	3.52	35.2
7782-49-2	Selenium	0.282	U		P	0.282	1.41
7440-22-4	Silver	0.113	U		P	0.113	0.352
7440-23-5	Sodium	45.8			P	7.04	21.1
7440-28-0	Thallium	0.326	J		P	0.239	0.704
7440-62-2	Vanadium	44			P	0.113	0.352
7440-66-6	Zinc	110			P	0.232	0.704

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-14DL1

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584310DL1

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 80.6 Station ID: EPAFMC13

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7439-89-6	Iron	32500			P	2.11	17.6
7439-96-5	Manganese	787			P	0.563	1.76

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-15

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584311

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 82.2 Station ID: EPAFMC14

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	5890			P	1.47	7.74
7440-36-0	Antimony	0.55	J		P	0.186	0.774
7440-38-2	Arsenic	14.4			P	0.387	0.774
7440-39-3	Barium	67.7			P	0.124	0.387
7440-41-7	Beryllium	0.587			P	0.124	0.387
7440-43-9	Cadmium	1.46			P	0.0387	0.387
7440-47-3	Chromium	63.2			P	0.124	0.387
7440-48-4	Cobalt	7.69			P	0.0387	0.387
7440-50-8	Copper	11.9			P	0.124	0.387
7439-92-1	Lead	18.4			P	0.263	0.619
7439-95-4	Magnesium	9660			P	2.24	7.74
7439-97-6	Mercury	0.0165			CV	0.00264	0.0143
7440-02-0	Nickel	16.6			P	0.124	0.387
7440-09-7	Potassium	283			P	3.87	38.7
7782-49-2	Selenium	0.31	U		P	0.31	1.55
7440-22-4	Silver	0.124	U		P	0.124	0.387
7440-23-5	Sodium	227			P	7.74	23.2
7440-28-0	Thallium	0.271	J		P	0.263	0.774
7440-62-2	Vanadium	50.5			P	0.124	0.387
7440-66-6	Zinc	146			P	0.255	0.774

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-15DL1

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584311DL1

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 82.2 Station ID: EPAFMC14

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7440-70-2	Calcium	24200			P	12.8	38.7
7439-89-6	Iron	35000			P	2.32	19.3
7439-96-5	Manganese	851			P	0.619	1.93

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-16

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584312

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 80.1 Station ID: EPAFMC11

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	4120			P	1.53	8.08
7440-36-0	Antimony	4.95			P	0.194	0.808
7440-38-2	Arsenic	12.4			P	0.404	0.808
7440-39-3	Barium	56			P	0.129	0.404
7440-41-7	Beryllium	0.389	J		P	0.129	0.404
7440-43-9	Cadmium	0.0404	U		P	0.0404	0.404
7440-70-2	Calcium	20000			P	2.66	8.08
7440-47-3	Chromium	54.4			P	0.129	0.404
7440-48-4	Cobalt	10.4			P	0.0404	0.404
7440-50-8	Copper	12.3			P	0.129	0.404
7439-89-6	Iron	24300			P	0.484	4.04
7439-92-1	Lead	42.7			P	0.274	0.646
7439-95-4	Magnesium	8940			P	2.34	8.08
7439-97-6	Mercury	0.0193			CV	0.00288	0.0156
7440-02-0	Nickel	14.1			P	0.129	0.404
7440-09-7	Potassium	238			P	4.04	40.4
7782-49-2	Selenium	0.323	U		P	0.323	1.62
7440-22-4	Silver	0.129	U		P	0.129	0.404
7440-23-5	Sodium	93.4			P	8.08	24.2
7440-28-0	Thallium	0.5	J		P	0.274	0.808
7440-62-2	Vanadium	34.9			P	0.129	0.404

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-16

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584312

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 80.1 Station ID: EPAFMC11

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7440-66-6	Zinc	121			P	0.266	0.808

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-16DL1

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584312DL1

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 80.1 Station ID: EPAFMC11

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7439-96-5	Manganese	703			P	0.646	2.02

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SW-01

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: SAS No: SDG No.: 3505843

Matrix: WATER Lab Sample ID: 350584313

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 0 Station ID: EPAFMC11

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	64.5	J		P	9.3	100
7440-36-0	Antimony	3.3	U		P	3.3	10
7440-38-2	Arsenic	7.06	J		P	3.31	10
7440-39-3	Barium	32			P	0.22	10
7440-41-7	Beryllium	0.12	U		P	0.12	5
7440-43-9	Cadmium	0.72	U		P	0.72	5
7440-70-2	Calcium	44300			P	39	100
7440-47-3	Chromium	0.901	J		P	0.43	10
7440-48-4	Cobalt	0.37	U		P	0.37	10
7440-50-8	Copper	2.7	U		P	2.7	10
7439-89-6	Iron	102			P	5.5	50
7439-92-1	Lead	3.7	U		P	3.7	15
7439-95-4	Magnesium	20400			P	9.8	100
7439-96-5	Manganese	33.9			P	0.35	10
7439-97-6	Mercury	0.037	U		CV	0.037	0.2
7440-02-0	Nickel	0.93	U		P	0.93	5
7440-09-7	Potassium	1130			P	71.7	500
7782-49-2	Selenium	4.1	U		P	4.1	20
7440-22-4	Silver	0.52	U		P	0.52	10
7440-23-5	Sodium	26000			P	180	300
7440-28-0	Thallium	0.507	J		F	0.34	2

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SW-01

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139
Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
Matrix: WATER Lab Sample ID: 350584313
Level:(low/med) LOW Date Received: 4/25/2012
PercentSolids: 0 Station ID: EPAFMC11

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7440-62-2	Vanadium	0.565	J		P	0.44	10
7440-66-6	Zinc	4.23	J		P	4	20

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SW-03

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: SAS No: SDG No.: 3505843

Matrix: WATER Lab Sample ID: 350584314

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 0 Station ID: EPAFMC11

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	57.3	J		P	9.3	100
7440-36-0	Antimony	3.3	U		P	3.3	10
7440-38-2	Arsenic	3.31	U		P	3.31	10
7440-39-3	Barium	33.9			P	0.22	10
7440-41-7	Beryllium	0.12	U		P	0.12	5
7440-43-9	Cadmium	0.72	U		P	0.72	5
7440-70-2	Calcium	46200			P	39	100
7440-47-3	Chromium	0.813	J		P	0.43	10
7440-48-4	Cobalt	0.37	U		P	0.37	10
7440-50-8	Copper	2.7	U		P	2.7	10
7439-89-6	Iron	94.8			P	5.5	50
7439-92-1	Lead	3.7	U		P	3.7	15
7439-95-4	Magnesium	21400			P	9.8	100
7439-96-5	Manganese	37.7			P	0.35	10
7439-97-6	Mercury	0.037	U		CV	0.037	0.2
7440-02-0	Nickel	0.93	U		P	0.93	5
7440-09-7	Potassium	1220			P	71.7	500
7782-49-2	Selenium	12.9	J		P	4.1	20
7440-22-4	Silver	0.52	U		P	0.52	10
7440-23-5	Sodium	27200			P	180	300
7440-28-0	Thallium	0.34	U		F	0.34	2

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SW-03

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139
Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
Matrix: WATER Lab Sample ID: 350584314
Level:(low/med) LOW Date Received: 4/25/2012
PercentSolids: 0 Station ID: EPAFMC11

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7440-62-2	Vanadium	0.546	J		P	0.44	10
7440-66-6	Zinc	4.44	J		P	4	20

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

DRAFT

Metals Inorganic QC Summary Data

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

127643MB

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139
Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
Matrix: WATER Lab Sample ID: 127643MB
Level:(low/med) LOW Date Received: 4/26/2012
PercentSolids: 0 Station ID: _____

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7439-97-6	Mercury	0.037	U		CV	0.037	0.2

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 127829MB
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 127829MB
 Level:(low/med) LOW Date Received: 4/26/2012
 PercentSolids: 100 Station ID: _____

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	1.69	U		P	1.69	8.88
7440-36-0	Antimony	0.213	U		P	0.213	0.888
7440-38-2	Arsenic	0.444	U		P	0.444	0.888
7440-39-3	Barium	0.142	U		P	0.142	0.444
7440-41-7	Beryllium	0.142	U		P	0.142	0.444
7440-43-9	Cadmium	0.0444	U		P	0.0444	0.444
7440-70-2	Calcium	2.93	U		P	2.93	8.88
7440-47-3	Chromium	0.142	U		P	0.142	0.444
7440-48-4	Cobalt	0.0444	U		P	0.0444	0.444
7440-50-8	Copper	0.224	J		P	0.142	0.444
7439-89-6	Iron	2.44	J		P	0.533	4.44
7439-92-1	Lead	0.302	U		P	0.302	0.71
7439-95-4	Magnesium	2.58	U		P	2.58	8.88
7439-96-5	Manganese	0.142	U		P	0.142	0.444
7440-02-0	Nickel	0.142	U		P	0.142	0.444
7440-09-7	Potassium	4.44	U		P	4.44	44.4
7782-49-2	Selenium	0.355	U		P	0.355	1.78
7440-22-4	Silver	0.142	U		P	0.142	0.444
7440-23-5	Sodium	8.88	U		P	8.88	26.6
7440-28-0	Thallium	0.302	U		P	0.302	0.888
7440-62-2	Vanadium	0.142	U		P	0.142	0.444

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

127829MB

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 127829MB

Level:(low/med) LOW Date Received: 4/26/2012

PercentSolids: 100 Station ID: _____

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7440-66-6	Zinc	0.293	U		P	0.293	0.888

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

127862MB

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: WATER Lab Sample ID: 127862MB

Level:(low/med) LOW Date Received: 4/26/2012

PercentSolids: 0 Station ID: _____

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7440-28-0	Thallium	0.34	U		F	0.34	2

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

127984MB

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: SOIL Lab Sample ID: 127984MB
 Level:(low/med) LOW Date Received: 4/26/2012
 PercentSolids: 100 Station ID: _____

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7439-97-6	Mercury	0.00348	U		CV	0.00348	0.0188

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

128299MB

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: WATER Lab Sample ID: 128299MB

Level:(low/med) LOW Date Received: 4/30/2012

PercentSolids: 0 Station ID: _____

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7429-90-5	Aluminum	9.3	U		P	9.3	100
7440-36-0	Antimony	3.3	U		P	3.3	10
7440-38-2	Arsenic	3.31	U		P	3.31	10
7440-39-3	Barium	0.22	U		P	0.22	10
7440-41-7	Beryllium	0.12	U		P	0.12	5
7440-43-9	Cadmium	0.72	U		P	0.72	5
7440-70-2	Calcium	65	J		P	39	100
7440-47-3	Chromium	0.457	J		P	0.43	10
7440-48-4	Cobalt	0.37	U		P	0.37	10
7440-50-8	Copper	2.7	U		P	2.7	10
7439-89-6	Iron	8.27	J		P	5.5	50
7439-92-1	Lead	3.7	U		P	3.7	15
7439-95-4	Magnesium	9.8	U		P	9.8	100
7440-02-0	Nickel	0.93	U		P	0.93	5
7440-09-7	Potassium	71.7	U		P	71.7	500
7782-49-2	Selenium	4.1	U		P	4.1	20
7440-22-4	Silver	0.52	U		P	0.52	10
7440-23-5	Sodium	180	U		P	180	300
7440-62-2	Vanadium	0.44	U		P	0.44	10
7440-66-6	Zinc	4	U		P	4	20

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139 128299MBR1

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: WATER Lab Sample ID: 128299MBR1

Level:(low/med) LOW Date Received: 4/30/2012

PercentSolids: 0 Station ID: _____

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
7439-89-6	Iron	5.5	U		P	5.5	50

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site EPA Sample No. EPAFMC-SD-07MS
 Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843
 Matrix: SOIL Level:(low/med) LOW
 % Solids for Sample: 75.5

Concentration Units (mg/L or mg/kg): mg/Kg

Analyte	Control Limit %R	Spiked Sample		Sample Result (SR)		Spike Added (SA)	%R	Q	M
			C		C				
Aluminum	75 - 125	10600		5010		4050	138	N	P
Antimony	75 - 125	36.1		0.660	J	40.5	87.5		P
Arsenic	75 - 125	60.4		18.1		40.5	104.4		P
Barium	75 - 125	172		37.2		121	111.4		P
Beryllium	75 - 125	44.4		0.399	J	40.5	108.6		P
Cadmium	75 - 125	37.6		8.64		40.5	71.5	N	P
Calcium	-								NR
Chromium	75 - 125	90.7		63.3		40.5	67.7	N	P
Cobalt	75 - 125	45.5		6.50		40.5	96.3		P
Copper	75 - 125	55.0		9.28		40.5	112.9		P
Iron	-								NR
Lead	75 - 125	57.9		21.7		40.5	89.4		P
Magnesium	75 - 125	14100		5340		4050	216.3	N	P
Manganese	-								NR
Mercury	80 - 120	0.352		0.0156	J	0.348	96.7		CV
Nickel	75 - 125	46.1		9.53		40.5	90.3		P
Potassium	75 - 125	5010		298		4050	116.3		P
Selenium	75 - 125	39.9		0.353	U	40.5	98.5		P
Silver	75 - 125	17.0		0.141	U	16.2	104.9		P
Sodium	75 - 125	4640		67.4		4050	112.9		P
Thallium	-								NR
Thallium	75 - 125	37.2		0.531	J	40.5	90.5		P
Vanadium	75 - 125	88.6		58.8		40.5	73.6	N	P
Zinc	75 - 125	146		142		40.5	9.9	N	P

Comments:

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

EPAFMC-SD-07SD

Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

Matrix: SOIL Level:(low/med) LOW

% Solids for Sample: 75.5

Concentration Units (mg/L or mg/kg): mg/Kg

Analyte	Control Limit %R	Spiked Sample		Sample Result (SR)		Spike Added (SA)	%R	Q	M
			C		C				
Aluminum	75 - 125	11100		5010		4080	149.3	N	P
Antimony	75 - 125	35.9		0.660	J	40.8	86.4		P
Arsenic	75 - 125	51.2		18.1		40.8	81.1		P
Barium	75 - 125	155		37.2		122	96.6		P
Beryllium	75 - 125	43.6		0.399	J	40.8	105.9		P
Cadmium	75 - 125	39.4		8.64		40.8	75.4		P
Calcium	-								NR
Chromium	75 - 125	115		63.3		40.8	126.7	N	P
Cobalt	75 - 125	48.9		6.50		40.8	103.9		P
Copper	75 - 125	60.3		9.28		40.8	125		P
Iron	-								NR
Lead	75 - 125	60.1		21.7		40.8	94.1		P
Magnesium	75 - 125	11400		5340		4080	148.5	N	P
Manganese	-								NR
Mercury	80 - 120	0.353		0.0156	J	0.371	90.9		CV
Nickel	75 - 125	48.8		9.53		40.8	96.2		P
Potassium	75 - 125	4780		298		4080	109.9		P
Selenium	75 - 125	28.4		0.353	U	40.8	69.6	N	P
Silver	75 - 125	16.7		0.141	U	16.3	102.5		P
Sodium	75 - 125	4500		67.4		4080	108.6		P
Thallium	-								NR
Thallium	75 - 125	39.0		0.531	J	40.8	94.3		P
Vanadium	75 - 125	94.6		58.8		40.8	87.7		P
Zinc	75 - 125	165		142		40.8	56.4	N	P

Comments:

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site EPA Sample No. 350581602A
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: Water Level:(low/med) LOW

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Control Limit %R	Spiked Sample		Sample Result (SR)		Spike Added (SA)	%R	Q	M
			C	C	U				
Mercury	80 - 120	3.07		0.03	U	3	102.3		CV

Comments:

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA Sample No. 350584301A

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: Soil Level:(low/med) LOW

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Control Limit %R	Spiked Sample		Sample Result (SR)		Spike Added (SA)	%R	Q	M
			C		C				
Aluminum	80 - 120	106000.00		56796.87		50000	99.2		P
Antimony	80 - 120	511.00		7.49	J	500	100.8		P
Arsenic	80 - 120	727.00		205.34		500	104.3		P
Barium	80 - 120	1910.00		421.47		1500	99.5		P
Beryllium	80 - 120	543.00		4.53	J	500	107.7		P
Cadmium	80 - 120	595.00		98.01		500	99.3		P
Chromium	80 - 120	1190.00		718.03		500	94.9		P
Cobalt	80 - 120	574.00		73.72		500	100.0		P
Copper	80 - 120	639.00		105.21		500	106.8		P
Lead	80 - 120	732.00		245.68		500	97.4		P
Magnesium	80 - 120	106000.00		60582.44		50000	90.3		P
Mercury	-	2.98		0.13	J	3	95.0		CV
Nickel	80 - 120	609.00		108.04		500	100.2		P
Potassium	80 - 120	57500.00		3385.45		50000	108.2		P
Selenium	80 - 120	468.00			U	500	93.5		P
Silver	80 - 120	207.00			U	200	103.6		P
Sodium	80 - 120	53900.00		764.20		50000	106.3		P
Vanadium	80 - 120	1180.00		666.49		500	102.6		P
Zinc	80 - 120	2010.00		1608.45		500	80.0		P

Comments:

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site EPA Sample No. 350584301ADL1
 Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843
 Matrix: Soil Level:(low/med) LOW

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Control Limit %R	Spiked Sample		Sample Result (SR)		Spike Added (SA)	%R	Q	M
			C		C				
Calcium	80 - 120	427000.00		176391.53		250000	100.4		P
Iron	80 - 120	632000.00		392907.01		250000	95.8		P
Manganese	80 - 120	7430.00		4782.49		2500	106.0		P

Comments:

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA Sample No. 350584313A

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: Water Level:(low/med) LOW

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Control Limit %R	Spiked Sample		Sample Result (SR)		Spike Added (SA)	%R	Q	M
			C		C				
Aluminum	80 - 120	51100.00		64.53	J	50000	102.2		P
Antimony	80 - 120	481.00		0.00	U	500	96.3		P
Arsenic	80 - 120	536.00		7.06	J	500	105.7		P
Barium	80 - 120	1560.00		32.06		1500	101.9		P
Beryllium	80 - 120	546.00		0.06	U	500	109.2		P
Cadmium	80 - 120	504.00		0.56	U	500	100.7		P
Calcium	80 - 120	93500.00		44317.51		50000	98.3		P
Chromium	80 - 120	522.00		0.90	J	500	104.1		P
Cobalt	80 - 120	512.00		0.09	U	500	102.4		P
Copper	80 - 120	524.00		2.19	U	500	104.7		P
Iron	80 - 120	51000.00		102.06		50000	101.8		P
Lead	80 - 120	529.00		0.88	U	500	105.7		P
Magnesium	80 - 120	70200.00		20396.89		50000	99.7		P
Manganese	80 - 120	561.00		33.92		500	105.4		P
Nickel	80 - 120	521.00		-0.51	U	500	104.1		P
Potassium	80 - 120	53700.00		1131.69		50000	105.1		P
Selenium	80 - 120	527.00		-3.50	U	500	105.5		P
Silver	80 - 120	202.00		-0.27	U	200	100.9		P
Sodium	80 - 120	76400.00		26007.13		50000	100.9		P
Thallium	80 - 120	13.60		0.51	J	12.5	104.5		F
Vanadium	80 - 120	534.00		0.57	J	500	106.8		P
Zinc	80 - 120	526.00		4.23	J	500	104.4		P

Comments:

U.S. EPA - CLP

6

DUPLICATES

DRAFT

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

127645LCSD

Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

Matrix: WATER Level:(low/med) LOW

% Solids for Sample: 0

% Solids for Duplicate: 0

Concentration Units (mg/L or mg/kg): ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Mercury	20	2.97		2.98		0.3		CV

Comments:

100512 1517

U.S. EPA - CLP

6

DUPLICATES

DRAFT

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

127831LCSD

Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

Matrix: SOIL Level:(low/med) LOW

% Solids for Sample: 100

% Solids for Duplicate: 100

Concentration Units (mg/L or mg/kg): mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	20	4380		4380		0.0		P
Antimony	20	44.9		45.2		0.7		P
Arsenic	20	45.2		45.4		0.4		P
Barium	20	133		132		0.8		P
Beryllium	20	44.6		44.8		0.4		P
Cadmium	20	43.4		43.7		0.7		P
Calcium	20	4370		4360		0.2		P
Chromium	20	44.6		44.3		0.7		P
Cobalt	20	44.2		44		0.5		P
Copper	20	43.7		43.8		0.2		P
Iron	20	4450		4430		0.5		P
Lead	20	44.8		44.8		0.0		P
Magnesium	20	4310		4280		0.7		P
Manganese	20	45.8		44.7		2.4		P
Nickel	20	44.2		44.4		0.5		P
Potassium	20	4450		4450		0.0		P
Selenium	20	42.2		42.6		0.9		P
Silver	20	17.5		17.3		1.1		P
Sodium	20	4440		4420		0.5		P
Thallium	20	43.9		43.9		0.0		P
Vanadium	20	46.8		46.3		1.1		P
Zinc	20	45		45.5		1.1		P

Comments:

100512 1517

U.S. EPA - CLP

6

DUPLICATES

DRAFT

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

127864LCSD

Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

Matrix: WATER Level:(low/med) LOW

% Solids for Sample: 0

% Solids for Duplicate: 0

Concentration Units (mg/L or mg/kg): ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Thallium	25	24.9		24.5		1.6		F

Comments:

100512 1517

U.S. EPA - CLP

6

DUPLICATES

DRAFT

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

127986LCSD

Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

Matrix: SOIL Level:(low/med) LOW

% Solids for Sample: 100

% Solids for Duplicate: 100

Concentration Units (mg/L or mg/kg): mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Mercury	20	0.255		0.29		12.8		CV

Comments:

100512 1517

U.S. EPA - CLP

6

DUPLICATES

DRAFT

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

128301LCSD

Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

Matrix: WATER Level:(low/med) LOW

% Solids for Sample: 0 % Solids for Duplicate: 0

Concentration Units (mg/L or mg/kg): ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	20	50700		51000		0.6		P
Antimony	20	509		513		0.8		P
Arsenic	20	520		526		1.1		P
Barium	20	1510		1530		1.3		P
Beryllium	20	521		528		1.3		P
Cadmium	20	497		498		0.2		P
Calcium	20	50800		51000		0.4		P
Chromium	20	502		509		1.4		P
Cobalt	20	496		503		1.4		P
Copper	20	504		508		0.8		P
Iron	20	50900		51100		0.4		P
Lead	20	518		522		0.8		P
Magnesium	20	50300		50700		0.8		P
Manganese	20	513		518		1.0		P
Nickel	20	510		512		0.4		P
Potassium	20	51900		52200		0.6		P
Selenium	20	510		518		1.6		P
Silver	20	193		193		0.0		P
Sodium	20	50600		50900		0.6		P
Vanadium	20	517		519		0.4		P
Zinc	20	510		518		1.6		P

Comments:

100512 1517

U.S. EPA - CLP

6

DUPLICATES

DRAFT

EPA Sample No.

EPAFMC-SD-07SD

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

Matrix: SOIL Level:(low/med) LOW

% Solids for Sample: 75.5

% Solids for Duplicate: 75.5

Concentration Units (mg/L or mg/kg): mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	20	10600		11100		4.6		P
Antimony	20	36.1		35.9		0.6		P
Arsenic	20	60.4		51.2		16.5		P
Barium	20	172		155		10.4		P
Beryllium	20	44.4		43.6		1.8		P
Cadmium	20	37.6		39.4		4.7		P
Chromium	20	90.7		115		23.6	*	P
Cobalt	20	45.5		48.9		7.2		P
Copper	20	55		60.3		9.2		P
Lead	20	57.9		60.1		3.7		P
Magnesium	20	14100		11400		21.2	*	P
Mercury	20	0.352		0.353		0.3		CV
Nickel	20	46.1		48.8		5.7		P
Potassium	20	5010		4780		4.7		P
Selenium	20	39.9		28.4		33.7	*	P
Silver	20	17		16.7		1.8		P
Sodium	20	4640		4500		3.1		P
Thallium	20	37.2		39		4.7		P
Vanadium	20	88.6		94.6		6.6		P
Zinc	20	146		165		12.2		P

Comments:

100512 1517

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LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

127644LCS

Lab Code: PEL Case No.: SAS No.: SDG No.: 3505843

Solid LCS Source:

Aqueous LCS Source: 45799

Analyte	Aqueous (ug/L)			Solid				
	True	Found	%R	True	Found	C	Limits	%R
Mercury	3	2.97	99.0				-	

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7

LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

127645LCSD

Lab Code: PEL Case No.: SAS No.: SDG No.: 3505843

Solid LCS Source:

Aqueous LCS Source: 45799

Analyte	Aqueous (ug/L)			Solid				
	True	Found	%R	True	Found	C	Limits	%R
Mercury	3	2.98	99.3				-	

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7

LABORATORY CONTROL SAMPLE

EPA Sample No.

127830LCS

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

Solid LCS Source: 45535, 45139, 45964,

Aqueous LCS Source:

Analyte	Aqueous			Solid (mg/Kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum				4500	4380		80 - 120	97.3
Antimony				45	44.9		80 - 120	99.8
Arsenic				45	45.2		80 - 120	100.4
Barium				135	133		80 - 120	98.5
Beryllium				45	44.6		80 - 120	99.1
Cadmium				45	43.4		80 - 120	96.4
Calcium				4500	4370		80 - 120	97.1
Chromium				45	44.6		80 - 120	99.1
Cobalt				45	44.2		80 - 120	98.2
Copper				45	43.7		80 - 120	97.1
Iron				4500	4450		80 - 120	98.9
Lead				45	44.8		80 - 120	99.6
Magnesium				4500	4310		80 - 120	95.8
Manganese				45	45.8		80 - 120	101.8
Nickel				45	44.2		80 - 120	98.2
Potassium				4500	4450		80 - 120	98.9
Selenium				45	42.2		80 - 120	93.8
Silver				18	17.5		80 - 120	97.2
Sodium				4500	4440		80 - 120	98.7
Thallium				45	43.9		80 - 120	97.6
Vanadium				45	46.8		80 - 120	104.0
Zinc				45	45		80 - 120	100.0

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7

LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

127831LCSD

Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

Solid LCS Source: 45535, 45139, 45964,

Aqueous LCS Source:

Analyte	Aqueous			Solid (mg/Kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum				4380	4380		80 - 120	100.0
Antimony				43.8	45.2		80 - 120	103.2
Arsenic				43.8	45.4		80 - 120	103.7
Barium				131	132		80 - 120	100.8
Beryllium				43.8	44.8		80 - 120	102.3
Cadmium				43.8	43.7		80 - 120	99.8
Calcium				4380	4360		80 - 120	99.5
Chromium				43.8	44.3		80 - 120	101.1
Cobalt				43.8	44		80 - 120	100.5
Copper				43.8	43.8		80 - 120	100.0
Iron				4380	4430		80 - 120	101.1
Lead				43.8	44.8		80 - 120	102.3
Magnesium				4380	4280		80 - 120	97.7
Manganese				43.8	44.7		80 - 120	102.1
Nickel				43.8	44.4		80 - 120	101.4
Potassium				4380	4450		80 - 120	101.6
Selenium				43.8	42.6		80 - 120	97.3
Silver				17.5	17.3		80 - 120	98.9
Sodium				4380	4420		80 - 120	100.9
Thallium				43.8	43.9		80 - 120	100.2
Vanadium				43.8	46.3		80 - 120	105.7
Zinc				43.8	45.5		80 - 120	103.9

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LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

127863LCS

Lab Code: PEL Case No.: SAS No.: SDG No.: 3505843

Solid LCS Source:

Aqueous LCS Source: 45139, 45964, 45240

Analyte	Aqueous (ug/L)			Solid				
	True	Found	%R	True	Found	C	Limits	%R
Thallium	25	24.9	99.6				-	

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LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

127864LCSD

Lab Code: PEL Case No.: SAS No.: SDG No.: 3505843

Solid LCS Source:

Aqueous LCS Source: 45139, 45964, 45240

Analyte	Aqueous (ug/L)			Solid				
	True	Found	%R	True	Found	C	Limits	%R
Thallium	25	24.5	98.0				-	

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7

LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

127985LCS

Lab Code: PEL Case No.: SAS No.: SDG No.: 3505843

Solid LCS Source: 45799

Aqueous LCS Source:

Analyte	Aqueous			Solid (mg/Kg)				
	True	Found	%R	True	Found	C	Limits	%R
Mercury				0.293	0.255		80 - 120	87.0

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LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

127986LCSD

Lab Code: PEL Case No.: SAS No.: SDG No.: 3505843

Solid LCS Source: 45799

Aqueous LCS Source:

Analyte	Aqueous			Solid (mg/Kg)				
	True	Found	%R	True	Found	C	Limits	%R
Mercury				0.298	0.29		80 - 120	97.3

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7

LABORATORY CONTROL SAMPLE

EPA Sample No.

128300LCS

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

Solid LCS Source:

Aqueous LCS Source: 45535, 45139, 44322,

Analyte	Aqueous (ug/L)			Solid				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum	50000	50700	101.4				-	
Antimony	500	509	101.8				-	
Arsenic	500	520	104.0				-	
Barium	1500	1510	100.7				-	
Beryllium	500	521	104.2				-	
Cadmium	500	497	99.4				-	
Calcium	50000	50800	101.6				-	
Chromium	500	502	100.4				-	
Cobalt	500	496	99.2				-	
Copper	500	504	100.8				-	
Iron	50000	50900	101.8				-	
Lead	500	518	103.6				-	
Magnesium	50000	50300	100.6				-	
Manganese	500	513	102.6				-	
Nickel	500	510	102.0				-	
Potassium	50000	51900	103.8				-	
Selenium	500	510	102.0				-	
Silver	200	193	96.5				-	
Sodium	50000	50600	101.2				-	
Vanadium	500	517	103.4				-	
Zinc	500	510	102.0				-	

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LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site

128301LCSD

Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Solid LCS Source:

Aqueous LCS Source: 45535, 45139, 44322,

Analyte	Aqueous (ug/L)			Solid				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum	50000	51000	102.0				-	
Antimony	500	513	102.6				-	
Arsenic	500	526	105.2				-	
Barium	1500	1530	102.0				-	
Beryllium	500	528	105.6				-	
Cadmium	500	498	99.6				-	
Calcium	50000	51000	102.0				-	
Chromium	500	509	101.8				-	
Cobalt	500	503	100.6				-	
Copper	500	508	101.6				-	
Iron	50000	51100	102.2				-	
Lead	500	522	104.4				-	
Magnesium	50000	50700	101.4				-	
Manganese	500	518	103.6				-	
Nickel	500	512	102.4				-	
Potassium	50000	52200	104.4				-	
Selenium	500	518	103.6				-	
Silver	200	193	96.5				-	
Sodium	50000	50900	101.8				-	
Vanadium	500	519	103.8				-	
Zinc	500	518	103.6				-	

DRAFT

Wet Chemistry Data Package

**CASE NARRATIVE
TOTAL ORGANIC CARBON**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

Analyses were performed according to Spectrum Analytical Inc. Laboratory's Standard Operating Procedures and EPA SW846 Method 9060Mod.

IV. PREPARATION

There is no preparation step for this method.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

1. Calibration Blanks:

All acceptance criteria were met.

2. Method Blanks:

All acceptance criteria were met.

C. Spikes:

1. Laboratory Control Spikes (LCS):

An LCS/LCSD set was analyzed.

All percent recovery and relative percent difference (RPD) criteria were met.

2. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD):

Spikes are not available for this method.

D. Duplicate:

**CASE NARRATIVE
TOTAL ORGANIC CARBON**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

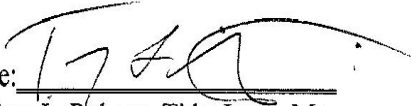
Client: OTIE

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)

E. Samples:

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature: 
Name: Troy L. Roberts Title: Inorg. Manager

SIGNED:

DATE: 05/09/2012

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Sit
Lab Code : PEL Case No.: _____ SDG No.: 3505843
SOW No.: _____

EPA Sample No	Lab Sample ID
<u>EPAFMC-SD-07</u>	<u>350584301</u>
<u>EPAFMC-SD-08</u>	<u>350584304</u>
<u>EPAFMC-SD-09</u>	<u>350584305</u>
<u>EPAFMC-SD-10</u>	<u>350584306</u>
<u>EPAFMC-SD-11</u>	<u>350584307</u>
<u>EPAFMC-SD-12</u>	<u>350584308</u>
<u>EPAFMC-SD-13</u>	<u>350584309</u>
<u>EPAFMC-SD-14</u>	<u>350584310</u>
<u>EPAFMC-SD-15</u>	<u>350584311</u>
<u>EPAFMC-SD-16</u>	<u>350584312</u>

Comments:

DRAFT

Wetchem_TOCS Inorganic Sample Data

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-07

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584301

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 75.5 Station ID: EPAFMC06

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
1012_5	TOC	9740			TC	57.4	494

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-08

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584304

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 97.1 Station ID: EPAFMC07

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
1012_5	TOC	1220			TC	38.8	334

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-09

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584305

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 77.7 Station ID: EPAFMC08

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
1012_5	TOC	2430			TC	66	568

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-10

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584306

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 79.7 Station ID: EPAFMC09

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
1012_5	TOC	6000			TC	50	430

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-11

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584307

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 78.4 Station ID: EPAFMC10

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
1012_5	TOC	7320			TC	67	576

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-12

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584308

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 84.4 Station ID: EPAFMC11

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
1012_5	TOC	13200			TC	46.5	401

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-13

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584309

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 78 Station ID: EPAFMC12

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
1012_5	TOC	26200			TC	60.6	521

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

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1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-14

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584310

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 80.6 Station ID: EPAFMC13

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
1012_5	TOC	1640			TC	52.1	449

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-15

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584311

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 82.2 Station ID: EPAFMC14

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
1012_5	TOC	14300			TC	54.6	470

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-16

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584312

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 80.1 Station ID: EPAFMC11

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
1012_5	TOC	6240			TC	49	422

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

DRAFT

Wetchem_TOCS Inorganic QC Summary Data

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

129552MB

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 129552MB

Level:(low/med) LOW Date Received: 5/3/2012

PercentSolids: 100 Station ID: _____

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
1012_5	TOC	54.6	U		TC	54.6	470

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

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DUPLICATES

DRAFT

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 13

129554LCSD

Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3505843

Matrix: SOIL Level:(low/med) LOW

% Solids for Sample: 100

% Solids for Duplicate: 100

Concentration Units (mg/L or mg/kg): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
TOC	20	102000		107000		4.8		TC

Comments:

100512 1517

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7-CC

LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Sit

129553LCS

Lab Code : PEL Case No. SAS No: SDG No.: 3505843

Matrix: (soil/water) SOIL

Concentration Units: (MG/KG)

PARAMETER	LCS SOURCE	M	LIMITS		TRUE	FOUND	%R	C
			LOWER	UPPER				
TOC	44239	TC	80	120	100000	102000	102	

Comments:

100512 1517

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7-CC

LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Sit

129554LCSD

Lab Code : PEL Case No. SAS No: SDG No.: 3505843

Matrix: (soil/water) SOIL

Concentration Units: (MG/KG)

PARAMETER	LCS SOURCE	M	LIMITS		TRUE	FOUND	%R	C
			LOWER	UPPER				
TOC	44239	TC	80	120	100000	107000	107	

Comments:

100512 1517

DRAFT

Hardness Data Package

**CASE NARRATIVE
HARDNESS**

Spectrum Analytical Inc. Lab Reference No./SDG: 3505843

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Analysis: All holding times were met.

III. METHODS

Analyses were performed according to the Spectrum Analytical Inc. Standard Operating Procedures and SM 2340B.

Soil samples were prepared by
Not applicable


IV. ANALYSIS

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)

A. Samples:

Sample analysis proceeded normally.
Hardness results were calculated using Calcium and Magnesium results from Method 6010B.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature: 
Name: Troy L. Roberts Title: Inorg. Manager

SIGNED:

DATE: 05/09/2012

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Sit
Lab Code: PEL Case No.: _____ SDG No.: 3505843
SOW No.: _____

EPA Sample No

Lab Sample ID

<u>EPAFMC-SD-07</u>	<u>350584301</u>
<u>EPAFMC-SD-08</u>	<u>350584304</u>
<u>EPAFMC-SD-09</u>	<u>350584305</u>
<u>EPAFMC-SD-10</u>	<u>350584306</u>
<u>EPAFMC-SD-11</u>	<u>350584307</u>
<u>EPAFMC-SD-12</u>	<u>350584308</u>
<u>EPAFMC-SD-13</u>	<u>350584309</u>
<u>EPAFMC-SD-14</u>	<u>350584310</u>
<u>EPAFMC-SD-15</u>	<u>350584311</u>
<u>EPAFMC-SD-16</u>	<u>350584312</u>
<u>EPAFMC-SW-01</u>	<u>350584313</u>
<u>EPAFMC-SW-03</u>	<u>350584314</u>

Comments:

DRAFT

Wetchem_har Inorganic Sample Data

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-07

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584301

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 75.5 Station ID: EPAFMC06

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
35-50-0	Hardness	61692.42			P			

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

100512 1517

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-08

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584304

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 97.1 Station ID: EPAFMC07

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
35-50-0	Hardness	73303.3			P			

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-09

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584305

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 77.7 Station ID: EPAFMC08

CONCENTRATION UNITS: *MG/KG*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
35-50-0	Hardness	64408.42			P			

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-10

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584306

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 79.7 Station ID: EPAFMC09

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
35-50-0	Hardness	88146.78			P			

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-11

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584307

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 78.4 Station ID: EPAFMC10

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
35-50-0	Hardness	81479.38			P			

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-12

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584308

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 84.4 Station ID: EPAFMC11

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
35-50-0	Hardness	75187.84			P			

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-13

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584309

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 78 Station ID: EPAFMC12

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
35-50-0	Hardness	78292.06			P			

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-14

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584310

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 80.6 Station ID: EPAFMC13

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
35-50-0	Hardness	50235.04			P			

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-15

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584311

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 82.2 Station ID: EPAFMC14

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
35-50-0	Hardness	101206.08			P			

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SD-16

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: SOIL Lab Sample ID: 350584312

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 80.1 Station ID: EPAFMC11

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
35-50-0	Hardness	86754.92			P			

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SW-01

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: WATER Lab Sample ID: 350584313

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 0 Station ID: EPAFMC11

CONCENTRATION UNITS: *mg/L*

CAS NO.	ANALYTE	Concentration	C	Q	M	MDL	RL
35-50-0	Hardness	195			P	0.2	1

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EPAFMC-SW-03

Lab Name: Spectrum Analytical, Inc. Contract: OTIE- Five Mile Creek / Site 139

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3505843

Matrix: WATER Lab Sample ID: 350584314

Level:(low/med) LOW Date Received: 4/25/2012

PercentSolids: 0 Station ID: EPAFMC11

CONCENTRATION UNITS: *mg/L*

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
35-50-0	Hardness	203			P		0.2	1

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

Appendix

Raw Data Method 8270 SIM

RUN LOG CHECK LIST

SDG: 3505843

Method: 8270_SIM

SAMPLE ID	LAB ID	InitialCal Reference	FILE	BATCH	COL	INSTRUMENT	RUN DATE	DILUTION
DFT1078147 *	45777	SMSD0105/07/12-1137-S1050712C	DFTPP2.D	S1050712C	1	SMSD01	05/07/12 07:35	1
STD1078145 *	45403	SMSD0105/07/12-1137-S1050712C	SIMCAL1.D	S1050712C	1	SMSD01	05/07/12 08:02	1
STD1078144 *	45402	SMSD0105/07/12-1137-S1050712C	SIMCAL2.D	S1050712C	1	SMSD01	05/07/12 08:25	1
STD1078143 *	45401	SMSD0105/07/12-1137-S1050712C	SIMCAL3.D	S1050712C	1	SMSD01	05/07/12 08:49	1
STD1078142 *	45400	SMSD0105/07/12-1137-S1050712C	SIMCAL4.D	S1050712C	1	SMSD01	05/07/12 09:13	1
STD1078141 *	45399	SMSD0105/07/12-1137-S1050712C	SIMCAL5.D	S1050712C	1	SMSD01	05/07/12 09:37	1
STD1078150 *	46068	SMSD0105/07/12-1137-S1050712C	SIMCAL6.D	S1050712C	1	SMSD01	05/07/12 10:01	1
STD1078140 *	45397	SMSD0105/07/12-1137-S1050712C	SIMCAL7.D	S1050712C	1	SMSD01	05/07/12 10:25	1
STD1078139 *	45396	SMSD0105/07/12-1137-S1050712C	SIMCAL8.D	S1050712C	1	SMSD01	05/07/12 10:49	1
STD1078138 *	45395	SMSD0105/07/12-1137-S1050712C	SIMCAL9.D	S1050712C	1	SMSD01	05/07/12 11:13	1
STD1078137 *	45394	SMSD0105/07/12-1137-S1050712C	SIMCAL10.D	S1050712C	1	SMSD01	05/07/12 11:37	1
SSC1078135 *	44830	SMSD0105/07/12-1137-S1050712C	SIMSEC.D	S1050712C	1	SMSD01	05/07/12 12:01	1
DFT1078149 *	45777	SMSD0105/07/12-1137-S1050712C	DFTPP4.D	S1050712	1	SMSD01	05/07/12 13:03	1
CCV1078151 *	46068	SMSD0105/07/12-1137-S1050712C	SIMCCV1.D	S1050712	1	SMSD01	05/07/12 13:24	1
129055MB	129055MB	SMSD0105/07/12-1137-S1050712C	9311MB.D	S1050712	1	SMSD01	05/07/12 13:48	1
129056LCS	129056LCS	SMSD0105/07/12-1137-S1050712C	9311LCS.D	S1050712	1	SMSD01	05/07/12 14:37	1
DFT1078234 *	45777	SMSD0105/07/12-1137-S1050712C	DFTPP1.D	S1050812	1	SMSD01	05/08/12 07:06	1
CCV1078235 *	46068	SMSD0105/07/12-1137-S1050712C	SIMCCV1.D	S1050812	1	SMSD01	05/08/12 07:26	1
EPAFMC-SD-07	350584301	SMSD0105/07/12-1137-S1050712C	84301.D	S1050812	1	SMSD01	05/08/12 09:32	1
EPAFMC-SD-07MS	350584302	SMSD0105/07/12-1137-S1050712C	84302.D	S1050812	1	SMSD01	05/08/12 09:56	1
EPAFMC-SD-08	350584304	SMSD0105/07/12-1137-S1050712C	84304.D	S1050812	1	SMSD01	05/08/12 13:57	1
EPAFMC-SD-09	350584305	SMSD0105/07/12-1137-S1050712C	84305.D	S1050812	1	SMSD01	05/08/12 14:30	1
EPAFMC-SD-10	350584306	SMSD0105/07/12-1137-S1050712C	84306.D	S1050812	1	SMSD01	05/08/12 14:54	1
EPAFMC-SD-07SD	350584303	SMSD0105/07/12-1137-S1050712C	84303D10.D	S1050812	1	SMSD01	05/08/12 15:19	10
EPAFMC-SD-11	350584307	SMSD0105/07/12-1137-S1050712C	84307.D	S1050812	1	SMSD01	05/08/12 15:43	1
EPAFMC-SD-12	350584308	SMSD0105/07/12-1137-S1050712C	84308.D	S1050812	1	SMSD01	05/08/12 16:07	1
EPAFMC-SD-13	350584309	SMSD0105/07/12-1137-S1050712C	84309.D	S1050812	1	SMSD01	05/08/12 16:31	1
EPAFMC-SD-14	350584310	SMSD0105/07/12-1137-S1050712C	84310.D	S1050812	1	SMSD01	05/08/12 16:55	1

* Sample IDs for calibration items are system generated

mjacobs

5/9/2012 11:12:07 AM

3505843

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RUN LOG CHECK LIST

SDG: 3505843

Method: 8270_SIM

SAMPLE ID	LAB ID	InitialCal Reference	FILE	BATCH	COL	INSTRUMENT	RUN DATE	DILUTION
EPAFMC-SD-15	350584311	SMSD0105/07/12-1137~S1050712C	84311.D	S1050812	1	SMSD01	05/08/12 17:19	1
EPAFMC-SD-16	350584312	SMSD0105/07/12-1137~S1050712C	84312.D	S1050812	1	SMSD01	05/08/12 17:44	1
DFT1078584 *	45777	SMSD0105/07/12-1137~S1050712C	DFTPP1.D	S1050912	1	SMSD01	05/09/12 07:06	1
CCV1078585 *	46068	SMSD0105/07/12-1137~S1050712C	SIMCCV1.D	S1050912	1	SMSD01	05/09/12 07:25	1
EPAFMC-SD-12DL1	350584308DL1	SMSD0105/07/12-1137~S1050712C	84308D5.D	S1050912	1	SMSD01	05/09/12 09:52	5
EPAFMC-SD-13DL1	350584309DL1	SMSD0105/07/12-1137~S1050712C	84309D5.D	S1050912	1	SMSD01	05/09/12 10:16	5
EPAFMC-SD-16DL1	350584312DL1	SMSD0105/07/12-1137~S1050712C	84312D5.D	S1050912	1	SMSD01	05/09/12 10:40	5

* Sample IDs for calibration items are system generated

mjacobs

5/9/2012 11:12:07 AM

3505843

831

Extraction Method	3545
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Extraction Log 8270 SIM Soil Ext

Start: 5/4/2012 10:00:00 AM

End: 5/4/2012 5:26:02 PM

Water Bath Temp: 70°C

Batch ID 9311

Thermometer ID: stbA

Balance ID: P35923

Final

Batch ID: 9311

Lab ID	Cont	Client ID	Date Samp	Type	Odor	Color	Sed	Initial	Final	pH	Standards	Cleanups	Archive
350584301	1	EPAFMC-SD-07	4/24/2012 11:25:00 AM	SAMPLE	none	brown	soil	25.3 G	1 mL		1mL 8270 SIM_Surrogate: 45981 @ 0.5 ug/mL;		na
350584302	1	EPAFMC-SD-07MS	4/24/2012 11:25:00 AM	MS	none	brown	soil	25.46 G	1 mL		1mL 8270 SIM_Spike: 45427 @ PAH 0.5 ug/ml; 1mL 8270 SIM_Surrogate: 45981 @ 0.5 ug/mL;		na
350584303	1	EPAFMC-SD-07SD	4/24/2012 11:25:00 AM	MSD	none	brown	soil	25.14 G	1 mL		1mL 8270 SIM_Spike: 45427 @ PAH 0.5 ug/ml; 1mL 8270 SIM_Surrogate: 45981 @ 0.5 ug/mL;		na
350584304	1	EPAFMC-SD-08	4/24/2012 11:37:00 AM	SAMPLE	none	brown	soil	25.3 G	1 mL		1mL 8270 SIM_Surrogate: 45981 @ 0.5 ug/mL;		na
350584305	1	EPAFMC-SD-09	4/24/2012 11:45:00 AM	SAMPLE	none	brown	soil	25.71 G	1 mL		1mL 8270 SIM_Surrogate: 45981 @ 0.5 ug/mL;		na
350584306	1	EPAFMC-SD-10	4/24/2012 1:43:00 PM	SAMPLE	none	brown	soil	25.69 G	1 mL		1mL 8270 SIM_Surrogate: 45981 @ 0.5 ug/mL;		na
350584307	1	EPAFMC-SD-11	4/24/2012 2:25:00 PM	SAMPLE	none	brown	soil	25.15 G	1 mL		1mL 8270 SIM_Surrogate: 45981 @ 0.5 ug/mL;		na
350584308	1	EPAFMC-SD-12	4/24/2012 3:40:00 PM	SAMPLE	none	brown	soil	25.29 G	1 mL		1mL 8270 SIM_Surrogate: 45981 @ 0.5 ug/mL;		na
350584309	1	EPAFMC-SD-13	4/24/2012 3:04:00 PM	SAMPLE	none	brown	soil	25.39 G	1 mL		1mL 8270 SIM_Surrogate: 45981 @ 0.5 ug/mL;		na

3505843

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Lab ID	Cont	Client ID	Date Samp	Type	Odor	Color	Sed	Initial	Final	pH	Standards	Cleanups	Archive
350584310	1	EPAFMC-SD-14	4/24/2012 3:35:00 PM	SAMPLE	none	brown	soil	25.82 G	1 mL		1mL 8270 SIM_Surrogate: 45981 @ 0.5 ug/mL;		na
350584311	1	EPAFMC-SD-15	4/24/2012 3:19:00 PM	SAMPLE	none	brown	soil	25.09 G	1 mL		1mL 8270 SIM_Surrogate: 45981 @ 0.5 ug/mL;		na
350584312	1	EPAFMC-SD-16	4/24/2012 3:45:00 PM	SAMPLE	none	brown	soil	25.57 G	1 mL		1mL 8270 SIM_Surrogate: 45981 @ 0.5 ug/mL;		na
129055MB	1	129055MB		MB	none	tan	sand	20.21 G	1 mL		1mL 8270 SIM_Surrogate: 45981 @ 0.5 ug/mL;		na
129056LCS	1	129056LCS		LCS	none	tan	sand	20.34 G	1 mL		1mL 8270 SIM_Spike: 45427 @ PAH 0.5 ug/ml; 1mL 8270 SIM_Surrogate: 45981 @ 0.5 ug/mL;		na

3505843

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Lab ID	Cont	Client ID	Date Samp	Type	Odor	Color	Sed	Initial	Final	pH	Standards	Cleanups	Archive
--------	------	-----------	-----------	------	------	-------	-----	---------	-------	----	-----------	----------	---------

Initial Solvent 46025

Final Solvent 46025

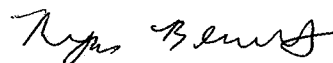
Cellulose Filter 45671

Hydromatrix 46004



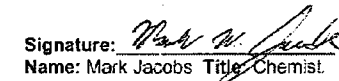
Name: Tammy Reuter Title: Prep Tech 5/4/2012 5:26:02 PM

Analyst Posted treuter Date



5/7/2012 9:25:08 AM

Peer Reviewed rbennett Date



Signature: Mark Jacobs Title: Chemist 5/9/2012 11:11:11

Analyst Reviewed mjacobs Date

Comments:

Sample Comments

Lab ID	Client ID	Comments
129055MB	129055MB	
129056LCS	129056LCS	
350584301	EPAFMC-SD-07	
350584302	EPAFMC-SD-07MS	
350584303	EPAFMC-SD-07SD	
350584304	EPAFMC-SD-08	
350584305	EPAFMC-SD-09	
350584306	EPAFMC-SD-10	

Lab ID	Cont	Client ID	Date Samp	Type	Odor	Color	Sed	Initial	Final	pH	Standards	Cleanups	Archive
350584307		EPAFMC-SD-11											
350584308		EPAFMC-SD-12											
350584309		EPAFMC-SD-13											
350584310		EPAFMC-SD-14											
350584311		EPAFMC-SD-15											
350584312		EPAFMC-SD-16											

3505843

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STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
34668	8270BNSURRSTK	NSI Solutions, Inc.	C-376M-47	5/31/2012	1 ML	5/27/2010	troberts
5000 UG/ML: 2-Fluorobiphenyl, Nitrobenzene-d5, p-Terphenyl-d14							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
42031	8270_DFTPP_STK_1	NSI C-491	C-491-09	7/31/2012	1.5 ML	6/21/2011	mjacobs
500 UG/ML: 4,4'-DDT, Benzidine, Decafluorotriphenyl phosphine(DFTPP), Pentachlorophenol							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
42204	8310_RTK1MN_STK	Restek 31283	A073339	4/30/2017	1 ML	7/8/2011	tcocord
1000 UG/ML: 1-Methylnaphthalene							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
42209	8310_ARHYDRO_STK	Restek 31458	A076905	10/17/2017	1 ML	7/8/2011	tcocord
1000 UG/ML: 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
43662	8270_IS_STK	Mitkem	SI111027a	10/27/2012	10 ML	11/1/2011	cabadia
2000 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
43663	8270_IS_STK	Mitkem	SI111027a	10/27/2012	10 ML	11/1/2011	cabadia
2000 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10							

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Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
43992	DCM	Honeywell	DF335	12/1/2012	200 L	12/1/2011	dyoung

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44067	8270_SEC_STK	NSI Q-2945	120511-25	12/5/2012	1 ML	12/8/2011	cabadia
150 UG/ML: 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,2'-Oxybis(1-chloropropane), 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Methylphenol, 2-Nitroaniline, 2-Nitrophenol, 3,3'-Dichlorobenzidine, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl-phenylether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl-phenylether, 4-Methylphenol, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Aniline, Anthracene, Azobenzene, Benzidine, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzoic acid, Benzyl alcohol, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Carbazole, Chrysene, Dibenz(a,h)anthracene, Dibenzofuran, Diethylphthalate, Dimethylphthalate, Di-n-butylphthalate, Di-n-octylphthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isophorone, Naphthalene, Nitrobenzene, Nitrobenzene-d5, N-Nitrosodimethylamine, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene, Pyridine 300 UG/ML: 2,4,6-Tribromophenol, 2-Fluorophenol, Phenol-d5							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44223	8270 SIM_IS Soln			6/15/2012	10 ML	12/15/2011	mjacobs
40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10 COMPOSED OF: 43663: 200 UL 43992: 9800 UL							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44409	8270_PHENOL_STK	Ultra Scientific US-	CE-1838Z	9/30/2013	1 ML	1/4/2012	cabadia
2000 UG/ML: 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2-Chlorophenol, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol, 4-Chloro-3-methylphenol, 4-Nitrophenol, Pentachlorophenol, Phenol							

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Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44494	8270 SIM_1,4-Dibromobe	NSI Q-5330Me	120908-01	12/31/2013	1 ML	1/9/2012	cabadia
2000 UG/ML: 1,4-Dibromobenzene							
Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44499	8270 SIM_1,4-Dibromobe	NSI Q-5330MeOH	120908-01	12/30/2013	1 ML	1/9/2012	cabadia
2000 UG/ML: 1,4-Dibromobenzene							
Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44504	8270 SIM_4Bromochlorob	NSI Q-5329Me	120908-01	12/30/2013	1 ML	1/9/2012	cabadia
2000 UG/ML: 4-Bromochlorobenzene							
Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44509	8270 SIM_4-Bromochloro	NSI Q-5329MeOH	120908-01	12/30/2013	1 ML	1/9/2012	cabadia
2000 UG/ML: 4-Bromochlorobenzene							
Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44514	8270 SIM_1-Bromohexan	NSI Q-5328Me	120908-01	12/30/2013	1 ML	1/9/2012	cabadia
2000 UG/ML: 1-Bromohexane							
Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44519	8270 SIM_1-Bromohexan	NSI Q-5328MeOH	120908-01	12/30/2013	1 ML	1/9/2012	cabadia
2000 UG/ML: 1-Bromohexane							

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Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44614	DCM	Honeywell	DD930	1/16/2017	16 L	1/16/2012	dyoung

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44725	8270 SIM_TOP			5/31/2012	10 ML	1/23/2012	NSUBAR

10 UG/ML: 1,4-Dibromobenzene, 1-Bromohexane, 1-Methylnaphthalene, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol, 4-Bromochlorobenzene, 4-Chloro-3-methylphenol, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Nitrobenzene-d5, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene

COMPOSED OF:

34668: 20 UL 42204: 100 UL 42209: 100 UL 44409: 50 UL 44494: 50 UL 44504: 50 UL 44514: 50 UL 44614: 9.73 ML

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44815	DCM	Honeywell	DF388	1/30/2013	200 L	1/30/2012	TREUTER

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44829	8270 SIM_INT SEC			7/30/2012	5 ML	1/30/2012	mjacobs

10 UG/ML: 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dibromobenzene, 1,4-Dichlorobenzene, 1-Bromohexane, 1-Methylnaphthalene, 2,2'-Oxybis(1-chloropropane), 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Methylphenol, 2-Nitroaniline, 2-Nitrophenol, 3,3'-Dichlorobenzidine, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromochlorobenzene, 4-Bromophenyl-phenylether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl-phenylether, 4-Methylphenol, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Aniline, Anthracene, Azobenzene, Benzidine, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzoic acid, Benzyl alcohol, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Carbazole, Chrysene, Dibenzo(a,h)anthracene, Dibenzofuran, Diethylphthalate, Dimethylphthalate, Di-n-butylphthalate, Di-n-octylphthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isophorone, Naphthalene, Nitrobenzene, Nitrobenzene-d5, N-Nitrosodimethylamine, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene, Pyridine

20 UG/ML: 2,4,6-Tribromophenol, 2-Fluorophenol, Phenol-d5

COMPOSED OF:

44067: 333.33 UL 44499: 25 UL 44509: 25 UL 44519: 25 UL 44815: 5 ML

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Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44830	8270 SIM_SEC			6/15/2012	1 ML	1/30/2012	mjacobs
0.5 UG/ML: 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dibromobenzene, 1,4-Dichlorobenzene, 1-Bromohexane, 1-Methylnaphthalene, 2,2'-Oxybis(1-chloropropane), 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Methylphenol, 2-Nitroaniline, 2-Nitrophenol, 3,3'-Dichlorobenzidine, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromochlorobenzene, 4-Bromophenyl-phenylether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl-phenylether, 4-Methylphenol, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Aniline, Anthracene, Azobenzene, Benzidine, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzoic acid, Benzyl alcohol, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Carbazole, Chrysene, Dibenzo(a,h)anthracene, Dibenzofuran, Diethylphthalate, Dimethylphthalate, Di-n-butylphthalate, Di-n-octylphthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isophorone, Naphthalene, Nitrobenzene, Nitrobenzene-d5, N-Nitrosodimethylamine, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene, Pyridine 0.8 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10 1 UG/ML: 2,4,6-Tribromophenol, 2-Fluorophenol, Phenol-d5							
COMPOSED OF:							
44223: 20 UL 44815: 950 UL 44829: 50 UL							
Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45265	DCM	Honeywell	DF656	3/6/2013	200 L	3/6/2012	jbowman
Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45267	8270 SIM_IS Soln			9/6/2012	10 ML	3/6/2012	nsubar
40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10							
COMPOSED OF:							
43662: 200 UL 45265: 9800 UL							
Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45369	8270 SIM_IS Soln			9/14/2012	10 ML	3/14/2012	nsubar
40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10							
COMPOSED OF:							
43662: 200 UL 45265: 9800 UL							

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Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45394	8270 SIM_CAL10			5/31/2012	1 ML	3/15/2012	nsubar
0.8 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10 10 UG/ML: 1,4-Dibromobenzene, 1-Bromohexane, 1-Methylnaphthalene, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol, 4-Bromochlorobenzene, 4-Chloro-3-methylphenol, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Nitrobenzene-d5, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene							
COMPOSED OF:							
44725: 1000 UL 45369: 20 UL							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45395	8270 SIM_CAL9			5/31/2012	1 ML	3/15/2012	nsubar
0.8 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10 5 UG/ML: 1,4-Dibromobenzene, 1-Bromohexane, 1-Methylnaphthalene, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol, 4-Bromochlorobenzene, 4-Chloro-3-methylphenol, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Nitrobenzene-d5, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene							
COMPOSED OF:							
44725: 500 UL 45265: 500 UL 45369: 20 UL							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45396	8270 SIM_CAL8			5/31/2012	1 ML	3/15/2012	nsubar
0.8 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10 1 UG/ML: 1,4-Dibromobenzene, 1-Bromohexane, 1-Methylnaphthalene, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol, 4-Bromochlorobenzene, 4-Chloro-3-methylphenol, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Nitrobenzene-d5, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene							
COMPOSED OF:							
44725: 100 UL 45265: 900 UL 45369: 20 UL							

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Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45397	8270 SIM_CAL7			5/31/2012	1 ML	3/15/2012	nsubar
0.7 UG/ML: 1,4-Dibromobenzene, 1-Bromohexane, 1-Methylnaphthalene, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol, 4-Bromochlorobenzene, 4-Chloro-3-methylphenol, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Nitrobenzene-d5, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene 0.8 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10 COMPOSED OF: 44725: 70 UL 45265: 930 UL 45369: 20 UL							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45399	8270 SIM_CAL5			5/31/2012	1 ML	3/15/2012	nsubar
0.2 UG/ML: 1,4-Dibromobenzene, 1-Bromohexane, 1-Methylnaphthalene, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol, 4-Bromochlorobenzene, 4-Chloro-3-methylphenol, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Nitrobenzene-d5, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene 0.8 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10 COMPOSED OF: 44725: 20 UL 45265: 980 UL 45369: 20 UL							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45400	8270 SIM_CAL4			5/31/2012	1 ML	3/15/2012	nsubar
0.1 UG/ML: 1,4-Dibromobenzene, 1-Bromohexane, 1-Methylnaphthalene, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol, 4-Bromochlorobenzene, 4-Chloro-3-methylphenol, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Nitrobenzene-d5, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene 0.8 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10 COMPOSED OF: 44725: 10 UL 45265: 990 UL 45369: 20 UL							

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Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45401	8270 SIM_CAL3			5/31/2012	1 ML	3/15/2012	nsubar
0.07 UG/ML: 1,4-Dibromobenzene, 1-Bromohexane, 1-Methylnaphthalene, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol, 4-Bromochlorobenzene, 4-Chloro-3-methylphenol, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Nitrobenzene-d5, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene 0.8 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10 COMPOSED OF: 44725: 7 UL 45265: 993 UL 45369: 20 UL							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45402	8270 SIM_CAL2			5/31/2012	1 ML	3/15/2012	nsubar
0.05 UG/ML: 1,4-Dibromobenzene, 1-Bromohexane, 1-Methylnaphthalene, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol, 4-Bromochlorobenzene, 4-Chloro-3-methylphenol, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Nitrobenzene-d5, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene 0.8 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10 COMPOSED OF: 44725: 5 UL 45265: 995 UL 45369: 20 UL							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45403	8270 SIM_CAL1			5/31/2012	1 ML	3/15/2012	nsubar
0.02 UG/ML: 1,4-Dibromobenzene, 1-Bromohexane, 1-Methylnaphthalene, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol, 4-Bromochlorobenzene, 4-Chloro-3-methylphenol, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Nitrobenzene-d5, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene 0.8 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10 COMPOSED OF: 44725: 2 UL 45265: 998 UL 45369: 20 UL							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45548	DCM	Honeywell	DF740	3/28/2013	200 L	3/28/2012	dyoung

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843

STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45777	DFTPP_std			7/31/2012	5 ML	4/10/2012	mjacobs
50 UG/ML: 4,4'-DDT, Benzidine, Decafluorotriphenyl phosphine(DFTPP), Pentachlorophenol							
COMPOSED OF:							
42031: 500 UL 45548: 4500 UL							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
46025	DCM	Honeywell	DF914	4/30/2013	200 L	4/30/2012	treuter

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
46068	8270 SIM_CAL6			5/31/2012	1 ML	5/7/2012	mjacobs
0.5 UG/ML: 1,4-Dibromobenzene, 1-Bromohexane, 1-Methylnaphthalene, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol, 4-Bromochlorobenzene, 4-Chloro-3-methylphenol, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Nitrobenzene-d5, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene							
0.8 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10							
COMPOSED OF:							
44725: 50 UL 45267: 20 UL 46025: 950 UL							

3505843

PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050712C.b\DFTPP2.D
 Lab Smp Id: 45777 Client Smp ID: DFTPP2
 Inj Date : 07-MAY-2012 07:35 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : 45777
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd01.i\S1050712C.b\DoDTUN.m
 Meth Date : 08-May-2012 11:35 mjacobs Quant Type: ISTD
 Cal Date : 23-MAR-2009 02:58 Cal File: AP9CAL1.D
 Als bottle: 100 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: SVECD04

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS								
RT	EXP RT	REL RT	MASS	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
1 dftpp				CAS #: 5074-71-5				
7.322	7.610 (0.000)	198	374592				0.00- 100.00	100.00
7.322	7.610 (0.000)	51	135552				10.00- 80.00	36.19
7.322	7.610 (0.000)	68	2588				0.00- 2.00	1.62
7.322	7.610 (0.000)	69	159936				0.00- 0.00	42.70
7.322	7.610 (0.000)	70	701				0.00- 2.00	0.44
7.322	7.610 (0.000)	127	184832				10.00- 80.00	49.34
7.322	7.610 (0.000)	197	543				0.00- 2.00	0.14
7.322	7.610 (0.000)	199	25616				5.00- 9.00	6.84
7.322	7.610 (0.000)	275	106104				10.00- 60.00	28.33
7.322	7.610 (0.000)	365	12965				1.00- 0.00	3.46
7.322	7.610 (0.000)	441	34768				0.01- 24.00	15.02
7.322	7.610 (0.000)	442	231488				50.00- 0.00	61.80
7.322	7.610 (0.000)	443	47160				15.00- 24.00	20.37

Data File: \\Svecd04\DD\chem\smsd01.i\S1050712C.b\DFTPP2.D

Date : 07-MAY-2012 07:35

Client ID: DFTPP2

Instrument: smsd01.i

Sample Info: 45777

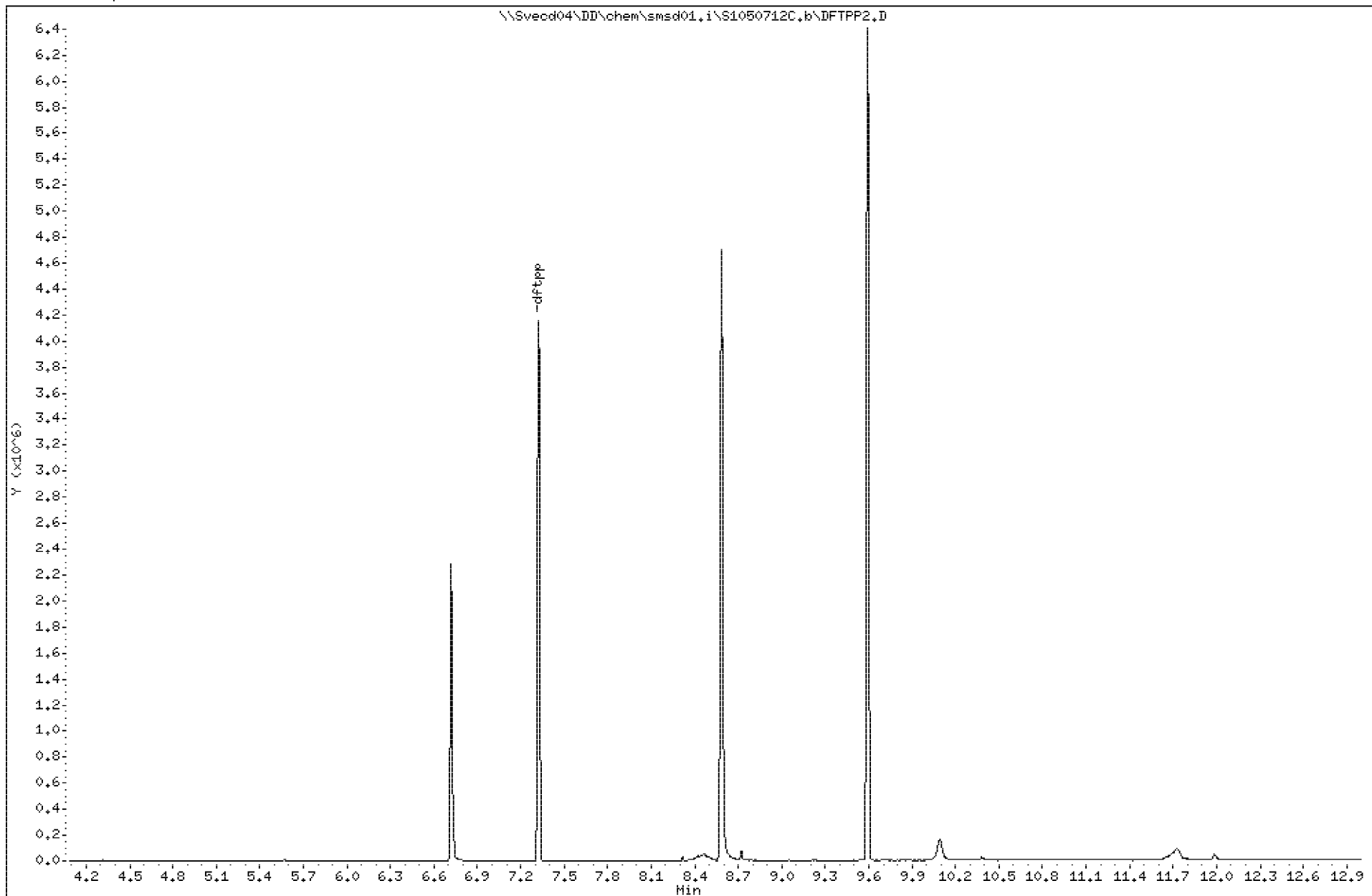
Operator:

Volume Injected (uL): 1.0

Column diameter: 2.00

Column phase:

\\Svecd04\DD\chem\smsd01.i\S1050712C.b\DFTPP2.D



Data File: \\Svecd04\DD\chem\smsd01.i\S1050712C.b\DFTPP2.D

Date : 07-MAY-2012 07:35

Client ID: DFTPP2

Instrument: smsd01.i

Sample Info: 45777

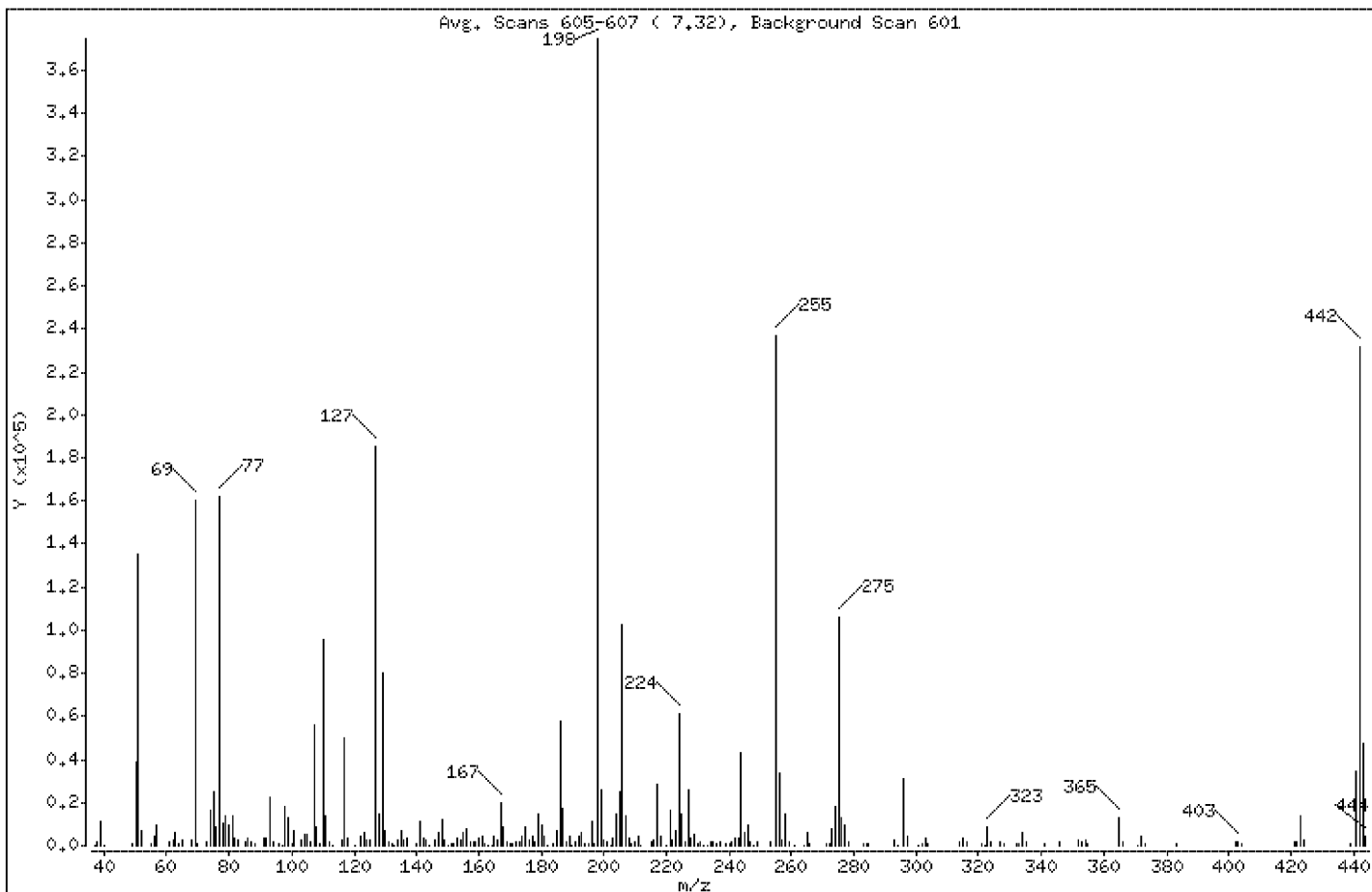
Volume Injected (uL): 1.0

Operator:

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	36.19
68	Less than 2.00% of mass 69	0.69 (1.62)
69	Mass 69 relative abundance	42.70
70	Less than 2.00% of mass 69	0.19 (0.44)
127	10.00 - 80.00% of mass 198	49.34
197	Less than 2.00% of mass 198	0.14
199	5.00 - 9.00% of mass 198	6.84
275	10.00 - 60.00% of mass 198	28.33
365	Greater than 1.00% of mass 198	3.46
441	0.01 - 24.00% of mass 442	9.28 (15.02)
442	Greater than 50.00% of mass 198	61.80
443	15.00 - 24.00% of mass 442	12.59 (20.37)

Data File: \\Svecd04\DD\chem\smsd01.i\S1050712C.b\DFTPP2.D

Date : 07-MAY-2012 07:35

Client ID: DFTPP2

Instrument: smsd01.i

Sample Info: 45777

Volume Injected (uL): 1.0

Operator:

Column phase:

Column diameter: 2.00

Data File: DFTPP2.D
Spectrum: Avg. Scans 605-607 (7.32), Background Scan 601
Location of Maximum: 198.00
Number of points: 244

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	265	125.00	2482	192.00	4568	265.00	5612
38.00	1929	127.00	184832	193.00	5615	266.00	776
39.00	11190	128.00	14456	194.00	1065	271.00	473
40.00	223	129.00	80192	195.00	549	272.00	580
49.00	939	130.00	6923	196.00	11429	273.00	7582
50.00	38656	131.00	1397	197.00	543	274.00	18240
51.00	135552	132.00	628	198.00	374592	275.00	106104
52.00	7067	133.00	278	199.00	25616	276.00	13088
55.00	988	134.00	2516	200.00	2229	277.00	9854
56.00	3937	135.00	6571	201.00	1747	278.00	1426
57.00	9460	136.00	2329	202.00	250	283.00	796
61.00	1736	137.00	3060	203.00	3114	284.00	513
62.00	2405	140.00	1041	204.00	14934	285.00	1263
63.00	6143	141.00	11110	205.00	25264	293.00	2280
64.00	770	142.00	3564	206.00	102448	294.00	315
65.00	2924	143.00	2310	207.00	14014	296.00	31080
68.00	2588	144.00	372	208.00	3675	297.00	4643
69.00	159936	146.00	2239	209.00	1111	301.00	221
70.00	701	147.00	5883	210.00	1725	302.00	446
73.00	1514	148.00	12035	211.00	4230	303.00	3688
74.00	16712	149.00	2453	212.00	273	304.00	718
75.00	25264	150.00	247	215.00	1451	314.00	1323
76.00	8857	151.00	1273	216.00	2721	315.00	3403
77.00	161984	152.00	722	217.00	28232	316.00	1738
78.00	10508	153.00	3260	218.00	3894	321.00	775
79.00	13664	154.00	2261	220.00	221	322.00	223
80.00	9646	155.00	6077	221.00	16696	323.00	9011
81.00	13361	156.00	8158	222.00	2719	324.00	1740
82.00	3301	157.00	1574	223.00	6697	327.00	1625
83.00	2878	158.00	1882	224.00	60864	328.00	712
85.00	2119	159.00	1715	225.00	14777	332.00	671
86.00	3670	160.00	3541	226.00	1672	333.00	828
87.00	1565	161.00	4451	227.00	25448	334.00	5983
88.00	589	162.00	1105	228.00	3705	335.00	1518
91.00	3037	163.00	223	229.00	5125	341.00	885

Data File: \\Svecd04\DD\chem\smsd01.i\S1050712C.b\DFTPP2.D

Date : 07-MAY-2012 07:35

Client ID: DFTPP2

Instrument: smsd01.i

Sample Info: 45777

Volume Injected (uL): 1.0

Operator:

Column phase:

Column diameter: 2.00

Data File: DFTPP2.D
Spectrum: Avg. Scans 605-607 (7.32), Background Scan 601
Location of Maximum: 198.00
Number of points: 244

m/z	Y	m/z	Y	m/z	Y	m/z	Y
92.00	3500	164.00	352	230.00	653	346.00	1703
93.00	22616	165.00	4162	231.00	1882	352.00	2877
94.00	1482	166.00	2879	232.00	222	353.00	1762
96.00	864	167.00	19632	233.00	238	354.00	2505
97.00	369	168.00	9041	234.00	1689	355.00	542
98.00	17952	169.00	1554	235.00	2072	365.00	12965
99.00	12949	170.00	476	236.00	1008	366.00	1546
100.00	1095	171.00	1015	237.00	2063	371.00	235
101.00	6480	172.00	1994	239.00	894	372.00	4195
103.00	2307	173.00	2039	240.00	921	373.00	972
104.00	5263	174.00	4486	241.00	1486	383.00	1080
105.00	5284	175.00	8191	242.00	3181	402.00	1305
106.00	1716	176.00	2233	243.00	3298	403.00	2028
107.00	56280	177.00	3958	244.00	43056	404.00	622
108.00	8315	178.00	1425	245.00	6208	421.00	1879
109.00	472	179.00	14899	246.00	9440	422.00	1815
110.00	95920	180.00	9647	247.00	1996	423.00	13503
111.00	14146	181.00	4606	248.00	289	424.00	2876
112.00	2105	182.00	305	249.00	1522	439.00	532
113.00	302	184.00	870	253.00	1343	441.00	34768
116.00	2744	185.00	7066	255.00	236672	442.00	231488
117.00	50344	186.00	57336	256.00	33384	443.00	47160
118.00	3684	187.00	16960	257.00	2769	444.00	4016
120.00	331	188.00	1853	258.00	14755		
122.00	4442	189.00	3984	259.00	1886		
123.00	6268	190.00	353	261.00	246		
124.00	2407	191.00	1700	264.00	265		

DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 05/07/2012 07:50

Datafile Analyzed: //Svecd04/DD/chem/smsd01.i/S1050712C.b/DFTPP2.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 05/08/2012 11:41

Datafile Analyzed: //Svecd04/DD/chem/smsd01.i/S1050712C.b/DFTPP2.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 05/09/2012 11:50

Datafile Analyzed: //Svecd04/DD/chem/smsd01.i/S1050712C.b/DFTPP2.D

PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMCAL1.D
 Lab Smp Id: 45403 Client Smp ID: SIMCAL1
 Inj Date : 07-MAY-2012 08:02 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : 45403
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMBCSTR.m
 Meth Date : 08-May-2012 11:12 smsd01.i Quant Type: ISTD
 Cal Date : 10-APR-2012 09:54 Cal File: SIMCAL6.D
 Als bottle: 1 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.254	4.253	(1.000)	152	16775	0.80000		80.00- 120.00	100.00(Q)	
4.254	4.253	(1.000)	115	9992			32.50- 92.50	59.56	

* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.414	5.406	(1.000)	136	58334	0.80000		80.00- 120.00	100.00(Q)	
5.406	5.406	(1.000)	68	2301			0.00- 34.01	3.94	

6 Naphthalene CAS #: 91-20-3									
5.430	5.429	(1.003)	128	1701	0.02000		80.00- 120.00	100.00(Q)	
5.430	5.429	(1.003)	129	201			0.00- 40.52	11.82	

8 2-Methylnaphthalene CAS #: 91-57-6									
6.093	6.093	(1.125)	142	1028	0.02000		80.00- 120.00	100.00(Q)	
6.093	6.082	(1.125)	141	870			56.36- 116.36	84.63	

9 1-Methylnaphthalene CAS #: 90-12-0									
6.187	6.177	(1.143)	142	1079	0.02000		80.00- 120.00	100.00(Q)	
6.187	6.177	(1.143)	141	952			49.28- 109.28	88.23	

\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.450	6.449	(0.908)	172	1249	0.02000		80.00- 120.00	100.00(Q)	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 10 2-Fluorobiphenyl (SURR) (continued)								
6.450	6.449	(0.908)	171	414			4.13- 64.13	33.15

12 Acenaphthylene CAS #: 208-96-8								
6.964	6.964	(0.980)	152	1489	0.02000		80.00- 120.00	100.00(Q)
6.964	6.964	(0.980)	151	297			0.00- 49.78	19.95

* 13 Acenaphthene-d10 CAS #: 15067-26-2								
7.105	7.105	(1.000)	164	33431	0.80000		80.00- 120.00	100.00(Q)
7.105	7.105	(1.000)	162	31564			64.70- 124.70	94.42

14 Acenaphthene CAS #: 83-32-9								
7.131	7.131	(1.004)	153	1037	0.02000		80.00- 120.00	100.00(Q)
7.131	7.131	(1.004)	154	937			60.47- 120.47	90.36

16 Fluorene CAS #: 86-73-7								
7.641	7.641	(1.076)	166	1137	0.02000		80.00- 120.00	100.00(Q)
7.641	7.641	(1.076)	165	1103			64.52- 124.52	97.01

* 17 Phenanthrene-d10 CAS #: 1517-22-2								
8.555	8.555	(1.000)	188	59540	0.80000		80.00- 120.00	100.00(Q)
8.555	8.549	(1.000)	94	4129			0.00- 36.97	6.93

18 Phenanthrene CAS #: 85-01-8								
8.581	8.575	(1.003)	178	1679	0.02000		80.00- 120.00	100.00(Q)
8.581	8.575	(1.003)	179	249			0.00- 45.15	14.83

19 Anthracene CAS #: 120-12-7								
8.633	8.626	(1.009)	178	1184	0.02000		80.00- 120.00	100.00(Q)
8.633	8.626	(1.009)	179	156			0.00- 45.16	13.18

21 Fluoranthene CAS #: 206-44-0								
9.754	9.748	(1.140)	202	1940	0.02000		80.00- 120.00	100.00(Q)
9.748	9.741	(1.139)	101	190			0.00- 38.08	9.79

22 Pyrene CAS #: 129-00-0								
9.974	9.967	(0.894)	202	2295	0.02000		80.00- 120.00	100.00(Q)
9.974	9.967	(0.894)	200	551			0.00- 50.73	24.01

\$ 23 Terphenyl-d14 (SURR) CAS #: 1718-51-0								
10.124	10.124	(0.908)	244	1396	0.02000		80.00- 120.00	100.00(Q)
10.124	10.118	(0.908)	122	132			0.00- 38.43	9.46

25 Benzo[a]anthracene CAS #: 56-55-3								
11.140	11.140	(0.999)	228	1969	0.02000		80.00- 120.00	100.00(Q)
11.140	11.140	(0.999)	229	445			0.00- 50.51	22.60

* 26 Chrysene-d12 CAS #: 1719-03-5								
11.153	11.146	(1.000)	240	72087	0.80000		80.00- 120.00	100.00(Q)
11.147	11.140	(1.000)	120	5428			0.00- 37.78	7.53

27 Chrysene CAS #: 218-01-9								
11.178	11.171	(1.002)	228	2083	0.02000		80.00- 120.00	100.00(Q)

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
27 Chrysene (continued)									
11.172	11.171	(1.002)	226	567			0.00- 58.50	27.22	

30 Benzo[b]fluoranthene CAS #: 205-99-2									
12.131	12.124	(0.973)	252	1842	0.02000		80.00- 120.00	100.00(Q)	
12.131	12.124	(0.973)	253	363			0.00- 51.26	19.71	

31 Benzo[k]fluoranthene CAS #: 207-08-9									
12.154	12.146	(0.975)	252	2345	0.02000		80.00- 120.00	100.00(QM)	
12.131	12.146	(0.973)	253	410			0.00- 53.27	17.48	

32 Benzo[a]pyrene CAS #: 50-32-8									
12.413	12.402	(0.996)	252	1764	0.02000		80.00- 120.00	100.00(Q)	
12.413	12.406	(0.996)	253	390			0.00- 53.07	22.11	

* 33 Perylene-d12 CAS #: 1520-96-3									
12.462	12.454	(1.000)	264	68110	0.80000		80.00- 120.00	100.00(Q)	
12.462	12.454	(1.000)	260	15387			0.00- 52.55	22.59	

34 Indeno[1,2,3-cd]pyrene CAS #: 193-39-5									
13.469	13.454	(1.081)	276	2020	0.02000		80.00- 120.00	100.00(Q)	
13.469	13.454	(1.081)	138	437			0.00- 49.54	21.63	

35 Dibenz[a,h]anthracene CAS #: 53-70-3									
13.476	13.465	(1.081)	278	1612	0.02000		80.00- 120.00	100.00(QM)	
13.472	13.461	(1.081)	139	207			0.00- 43.05	12.84	

36 Benzo[g,h,i]perylene CAS #: 191-24-2									
13.748	13.737	(1.103)	276	1818	0.02000		80.00- 120.00	100.00(Q)	
13.752	13.733	(1.104)	138	382			0.00- 46.66	21.01	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
 M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMCAL1.D

Page 4

Date : 07-MAY-2012 08:02

Client ID: SIMCAL1

Instrument: smsd01.i

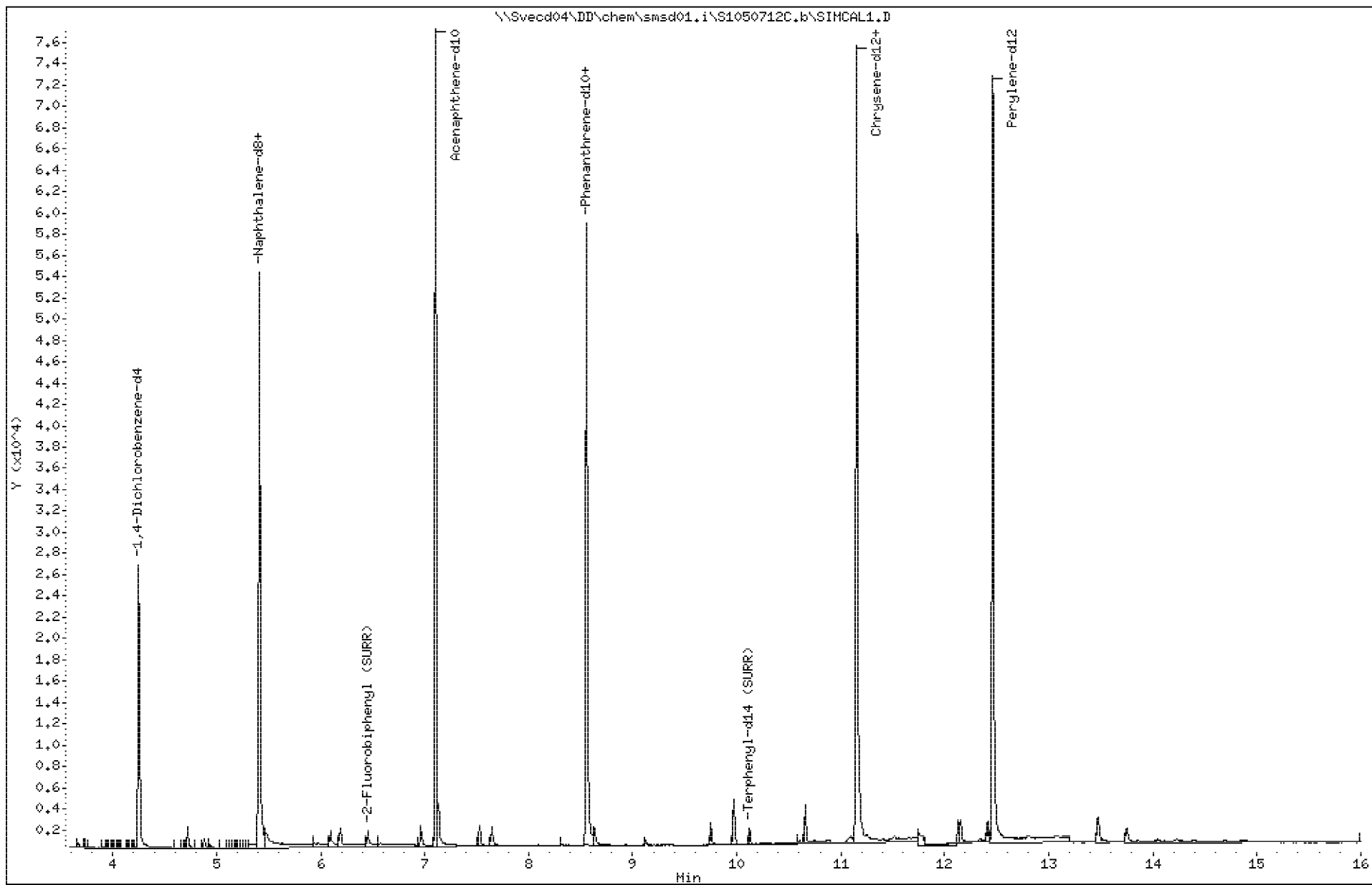
Sample Info: 45403

Purge Volume: 1000.0

Operator:

Column phase: HPMS-5

Column diameter: 0.25



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMCAL2.D
 Lab Smp Id: 45402 Client Smp ID: SIMCAL2
 Inj Date : 07-MAY-2012 08:25 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : 45402
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMBCSTR.m
 Meth Date : 08-May-2012 11:12 smsd01.i Quant Type: ISTD
 Cal Date : 10-APR-2012 09:54 Cal File: SIMCAL6.D
 Als bottle: 2 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.254	4.253 (1.000)		152	17817	0.80000		80.00- 120.00	100.00	
4.254	4.253 (1.000)		115	11228			32.50- 92.50	63.02	
* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406 (1.000)		136	64957	0.80000		80.00- 120.00	100.00	
5.406	5.406 (1.000)		68	2676			0.00- 34.01	4.12	
6 Naphthalene CAS #: 91-20-3									
5.430	5.429 (1.004)		128	4223	0.05000	0.044	80.00- 120.00	100.00	
5.430	5.429 (1.004)		129	465			0.00- 40.52	11.01	
8 2-Methylnaphthalene CAS #: 91-57-6									
6.093	6.093 (1.127)		142	2699	0.05000	0.047	80.00- 120.00	100.00	
6.093	6.082 (1.127)		141	2306			56.36- 116.36	85.44	
9 1-Methylnaphthalene CAS #: 90-12-0									
6.187	6.177 (1.144)		142	2861	0.05000	0.048	80.00- 120.00	100.00	
6.187	6.177 (1.144)		141	2596			49.28- 109.28	90.74	
\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.450	6.449 (0.908)		172	3459	0.05000	0.049	80.00- 120.00	100.00	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====
\$ 10 2-Fluorobiphenyl (SURR) (continued)								
6.450	6.449	(0.908)	171	1180			4.13- 64.13	34.11

12 Acenaphthylene						CAS #: 208-96-8		
6.964	6.964	(0.980)	152	4246	0.05000	0.050	80.00- 120.00	100.00
6.964	6.964	(0.980)	151	886			0.00- 49.78	20.87

* 13 Acenaphthene-d10						CAS #: 15067-26-2		
7.105	7.105	(1.000)	164	37986	0.80000		80.00- 120.00	100.00
7.105	7.105	(1.000)	162	36940			64.70- 124.70	97.25

14 Acenaphthene						CAS #: 83-32-9		
7.131	7.131	(1.004)	153	2874	0.05000	0.049	80.00- 120.00	100.00
7.131	7.131	(1.004)	154	2538			60.47- 120.47	88.31

16 Fluorene						CAS #: 86-73-7		
7.641	7.641	(1.076)	166	3191	0.05000	0.049	80.00- 120.00	100.00
7.641	7.641	(1.076)	165	3078			64.52- 124.52	96.46

* 17 Phenanthrene-d10						CAS #: 1517-22-2		
8.555	8.555	(1.000)	188	66073	0.80000		80.00- 120.00	100.00
8.555	8.549	(1.000)	94	4766			0.00- 36.97	7.21

18 Phenanthrene						CAS #: 85-01-8		
8.581	8.575	(1.003)	178	4544	0.05000	0.049	80.00- 120.00	100.00
8.581	8.575	(1.003)	179	758			0.00- 45.15	16.68

19 Anthracene						CAS #: 120-12-7		
8.633	8.626	(1.009)	178	3369	0.05000	0.051	80.00- 120.00	100.00
8.633	8.626	(1.009)	179	473			0.00- 45.16	14.04

21 Fluoranthene						CAS #: 206-44-0		
9.748	9.748	(1.139)	202	5238	0.05000	0.049	80.00- 120.00	100.00
9.748	9.741	(1.139)	101	409			0.00- 38.08	7.81

22 Pyrene						CAS #: 129-00-0		
9.974	9.967	(0.895)	202	5651	0.05000	0.047	80.00- 120.00	100.00
9.967	9.967	(0.894)	200	1219			0.00- 50.73	21.57

\$ 23 Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
10.124	10.124	(0.908)	244	3489	0.05000	0.048	80.00- 120.00	100.00
10.118	10.118	(0.908)	122	299			0.00- 38.43	8.57

25 Benzo[a]anthracene						CAS #: 56-55-3		
11.140	11.140	(0.999)	228	4792	0.05000	0.047	80.00- 120.00	100.00
11.140	11.140	(0.999)	229	960			0.00- 50.51	20.03

* 26 Chrysene-d12						CAS #: 1719-03-5		
11.147	11.146	(1.000)	240	74932	0.80000		80.00- 120.00	100.00
11.147	11.140	(1.000)	120	5960			0.00- 37.78	7.95

27 Chrysene						CAS #: 218-01-9		
11.172	11.171	(1.002)	228	5091	0.05000	0.047	80.00- 120.00	100.00

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	====	=====	=====	=====	=====	=====	
27 Chrysene (continued)									
11.172	11.171	(1.002)	226	1526			0.00- 58.50	29.97	

30 Benzo[b]fluoranthene CAS #: 205-99-2									
12.128	12.124	(0.973)	252	4361	0.05000	0.045	80.00- 120.00	100.00	
12.128	12.124	(0.973)	253	1056			0.00- 51.26	24.21	

31 Benzo[k]fluoranthene CAS #: 207-08-9									
12.146	12.146	(0.975)	252	6426	0.05000	0.052	80.00- 120.00	100.00	
12.128	12.146	(0.973)	253	1034			0.00- 53.27	16.09	

32 Benzo[a]pyrene CAS #: 50-32-8									
12.406	12.402	(0.996)	252	4421	0.05000	0.048	80.00- 120.00	100.00	
12.406	12.406	(0.996)	253	947			0.00- 53.07	21.42	

* 33 Perylene-d12 CAS #: 1520-96-3									
12.458	12.454	(1.000)	264	71324	0.80000		80.00- 120.00	100.00	
12.454	12.454	(1.000)	260	15988			0.00- 52.55	22.42	

34 Indeno[1,2,3-cd]pyrene CAS #: 193-39-5									
13.461	13.454	(1.081)	276	5418	0.05000	0.051	80.00- 120.00	100.00	
13.461	13.454	(1.081)	138	1093			0.00- 49.54	20.17	

35 Dibenz[a,h]anthracene CAS #: 53-70-3									
13.469	13.465	(1.081)	278	4268	0.05000	0.050	80.00- 120.00	100.00	
13.469	13.461	(1.081)	139	525			0.00- 43.05	12.30	

36 Benzo[g,h,i]perylene CAS #: 191-24-2									
13.741	13.737	(1.103)	276	4865	0.05000	0.051	80.00- 120.00	100.00	
13.741	13.733	(1.103)	138	791			0.00- 46.66	16.26	

Data File: \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMCAL2.D

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Date : 07-MAY-2012 08:25

Client ID: SIMCAL2

Instrument: smsd01.i

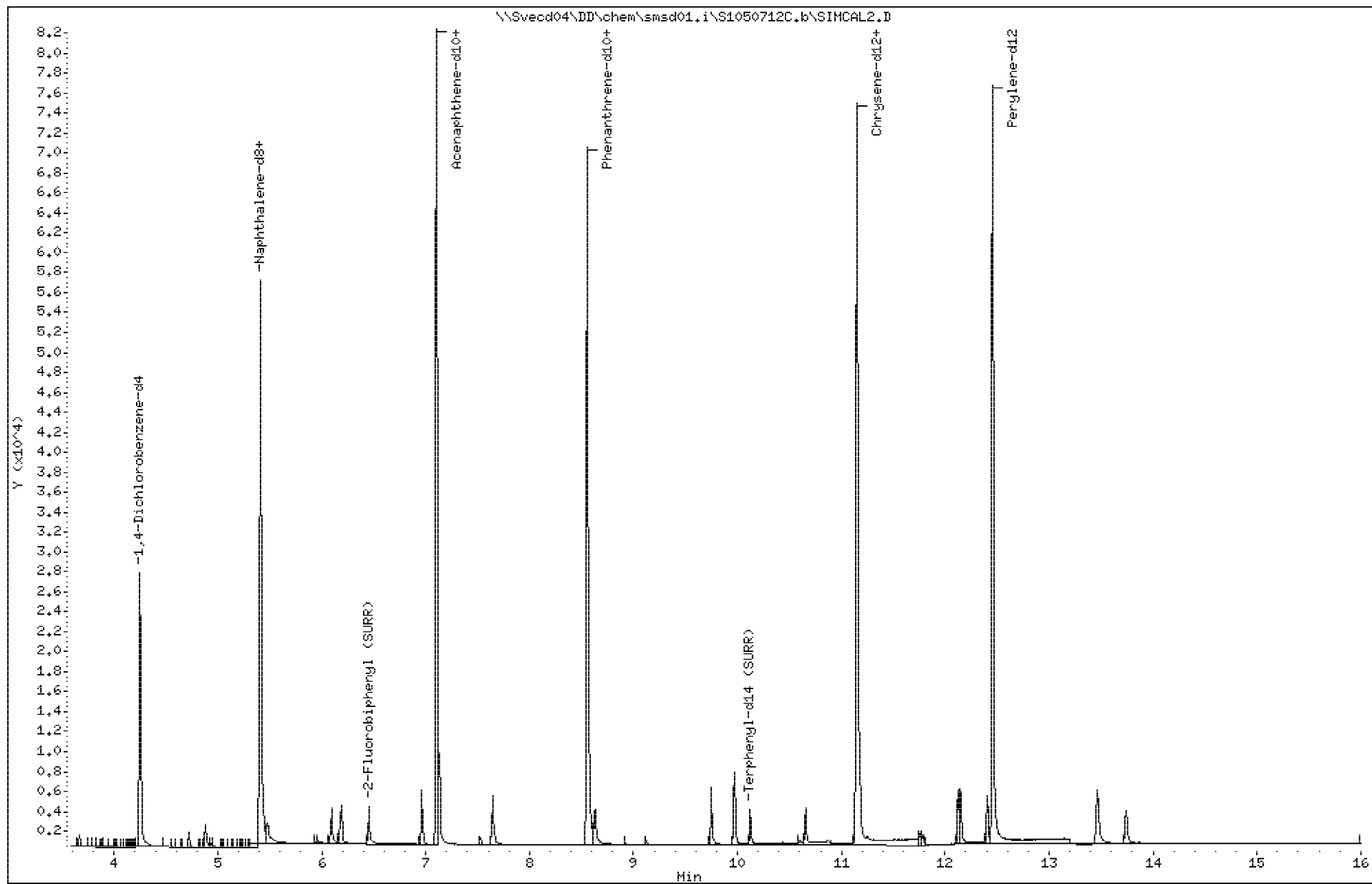
Sample Info: 45402

Purge Volume: 1000.0

Operator:

Column phase: HPMS-5

Column diameter: 0.25



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMCAL3.D
 Lab Smp Id: 45401 Client Smp ID: SIMCAL3
 Inj Date : 07-MAY-2012 08:49 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : 45401
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMBCSTR.m
 Meth Date : 08-May-2012 11:12 smsd01.i Quant Type: ISTD
 Cal Date : 10-APR-2012 09:54 Cal File: SIMCAL6.D
 Als bottle: 3 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.254	4.253	(1.000)	152	17466	0.80000		80.00- 120.00	100.00	
4.254	4.253	(1.000)	115	10805			32.50- 92.50	61.86	

* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406	(1.000)	136	62030	0.80000		80.00- 120.00	100.00	
5.406	5.406	(1.000)	68	2512			0.00- 34.01	4.05	

6 Naphthalene CAS #: 91-20-3									
5.430	5.429	(1.004)	128	5895	0.07000	0.069	80.00- 120.00	100.00	
5.430	5.429	(1.004)	129	608			0.00- 40.52	10.31	

8 2-Methylnaphthalene CAS #: 91-57-6									
6.093	6.093	(1.127)	142	3637	0.07000	0.068	80.00- 120.00	100.00	
6.093	6.082	(1.127)	141	3077			56.36- 116.36	84.60	

9 1-Methylnaphthalene CAS #: 90-12-0									
6.187	6.177	(1.144)	142	4024	0.07000	0.072	80.00- 120.00	100.00	
6.187	6.177	(1.144)	141	3345			49.28- 109.28	83.13	

\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.450	6.449	(0.908)	172	4500	0.07000	0.068	80.00- 120.00	100.00	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====
\$ 10 2-Fluorobiphenyl (SURR) (continued)								
6.450	6.449	(0.908)	171	1569			4.13- 64.13	34.87

12 Acenaphthylene						CAS #: 208-96-8		
6.964	6.964	(0.980)	152	5745	0.07000	0.071	80.00- 120.00	100.00
6.964	6.964	(0.980)	151	1136			0.00- 49.78	19.77

* 13 Acenaphthene-d10						CAS #: 15067-26-2		
7.105	7.105	(1.000)	164	36086	0.80000		80.00- 120.00	100.00
7.105	7.105	(1.000)	162	34372			64.70- 124.70	95.25

14 Acenaphthene						CAS #: 83-32-9		
7.131	7.131	(1.004)	153	3848	0.07000	0.070	80.00- 120.00	100.00
7.131	7.131	(1.004)	154	3481			60.47- 120.47	90.46

16 Fluorene						CAS #: 86-73-7		
7.641	7.641	(1.076)	166	4299	0.07000	0.070	80.00- 120.00	100.00
7.641	7.641	(1.076)	165	4122			64.52- 124.52	95.88

* 17 Phenanthrene-d10						CAS #: 1517-22-2		
8.555	8.555	(1.000)	188	67928	0.80000		80.00- 120.00	100.00
8.555	8.549	(1.000)	94	4640			0.00- 36.97	6.83

18 Phenanthrene						CAS #: 85-01-8		
8.575	8.575	(1.002)	178	6150	0.07000	0.065	80.00- 120.00	100.00
8.581	8.575	(1.003)	179	1006			0.00- 45.15	16.36

19 Anthracene						CAS #: 120-12-7		
8.633	8.626	(1.009)	178	4517	0.07000	0.066	80.00- 120.00	100.00
8.633	8.626	(1.009)	179	741			0.00- 45.16	16.40

21 Fluoranthene						CAS #: 206-44-0		
9.748	9.748	(1.139)	202	7094	0.07000	0.065	80.00- 120.00	100.00
9.748	9.741	(1.139)	101	589			0.00- 38.08	8.30

22 Pyrene						CAS #: 129-00-0		
9.967	9.967	(0.894)	202	7404	0.07000	0.066	80.00- 120.00	100.00
9.967	9.967	(0.894)	200	1559			0.00- 50.73	21.06

\$ 23 Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
10.124	10.124	(0.908)	244	4627	0.07000	0.067	80.00- 120.00	100.00
10.118	10.118	(0.908)	122	420			0.00- 38.43	9.08

25 Benzo[a]anthracene						CAS #: 56-55-3		
11.140	11.140	(0.999)	228	6341	0.07000	0.066	80.00- 120.00	100.00
11.140	11.140	(0.999)	229	1236			0.00- 50.51	19.49

* 26 Chrysene-d12						CAS #: 1719-03-5		
11.147	11.146	(1.000)	240	72595	0.80000		80.00- 120.00	100.00
11.147	11.140	(1.000)	120	5839			0.00- 37.78	8.04

27 Chrysene						CAS #: 218-01-9		
11.172	11.171	(1.002)	228	6969	0.07000	0.068	80.00- 120.00	100.00

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	====	=====	=====	=====	=====	=====	
27 Chrysene (continued)									
11.172	11.171	(1.002)	226	2068			0.00- 58.50	29.67	

30 Benzo[b]fluoranthene									
12.124	12.124	(0.973)	252	6137	0.07000	0.069	80.00- 120.00	100.00	
12.124	12.124	(0.973)	253	1293			0.00- 51.26	21.07	

31 Benzo[k]fluoranthene									
12.146	12.146	(0.975)	252	8332	0.07000	0.069	80.00- 120.00	100.00	
12.146	12.146	(0.975)	253	2460			0.00- 53.27	29.52	

32 Benzo[a]pyrene									
12.406	12.402	(0.996)	252	5906	0.07000	0.068	80.00- 120.00	100.00	
12.406	12.406	(0.996)	253	1295			0.00- 53.07	21.93	

* 33 Perylene-d12									
12.454	12.454	(1.000)	264	68885	0.80000		80.00- 120.00	100.00	
12.454	12.454	(1.000)	260	15311			0.00- 52.55	22.23	

34 Indeno[1,2,3-cd]pyrene									
13.457	13.454	(1.081)	276	7362	0.07000	0.071	80.00- 120.00	100.00	
13.457	13.454	(1.081)	138	1471			0.00- 49.54	19.98	

35 Dibenz[a,h]anthracene									
13.465	13.465	(1.081)	278	5455	0.07000	0.066	80.00- 120.00	100.00	
13.465	13.461	(1.081)	139	700			0.00- 43.05	12.83	

36 Benzo[g,h,i]perylene									
13.741	13.737	(1.103)	276	6619	0.07000	0.071	80.00- 120.00	100.00	
13.737	13.733	(1.103)	138	1108			0.00- 46.66	16.74	

Data File: \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMCAL3.D

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Date : 07-MAY-2012 08:49

Client ID: SIMCAL3

Instrument: smsd01.i

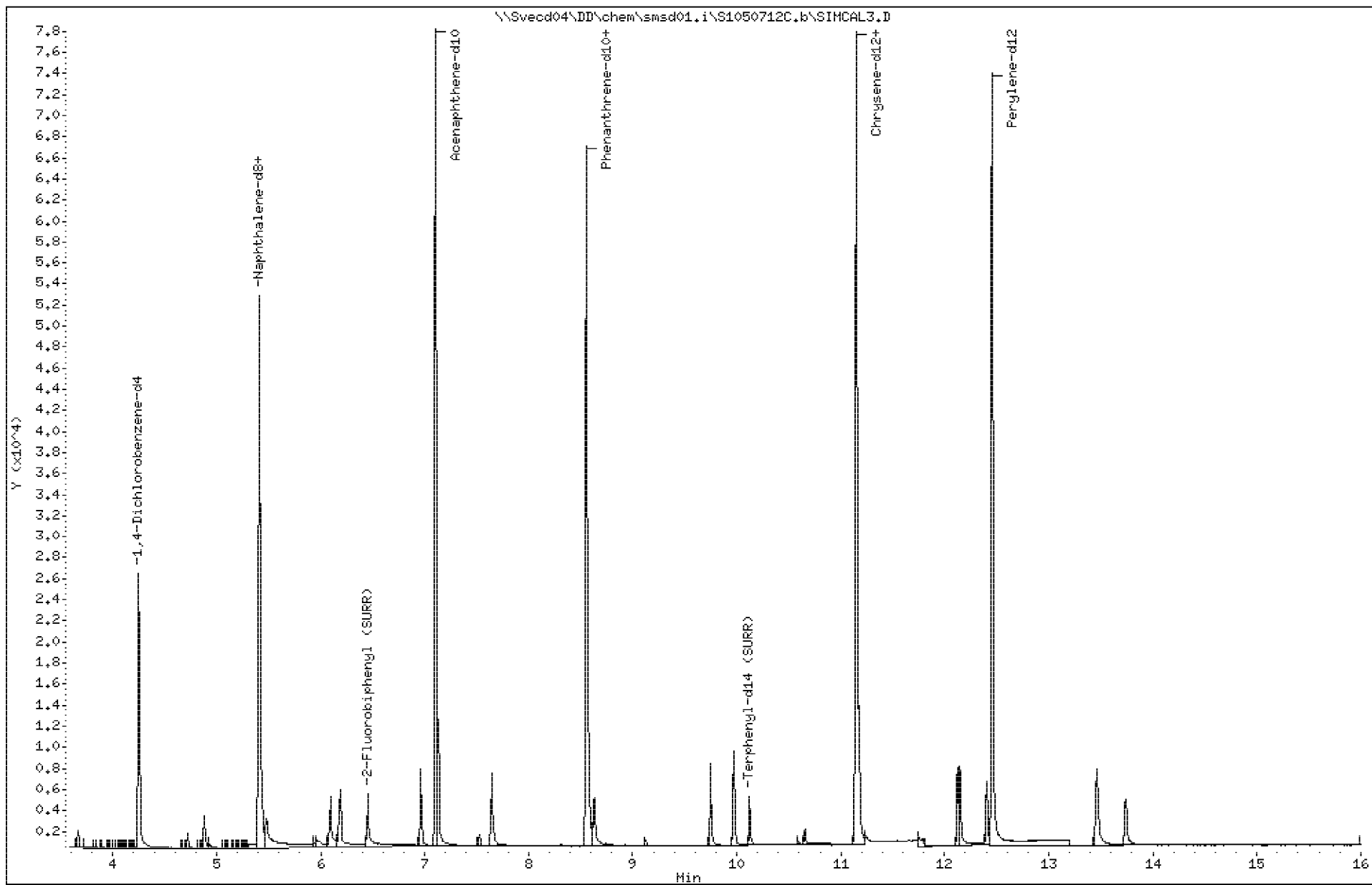
Sample Info: 45401

Purge Volume: 1000.0

Operator:

Column phase: HPMS-5

Column diameter: 0.25



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMCAL4.D
 Lab Smp Id: 45400 Client Smp ID: SIMCAL4
 Inj Date : 07-MAY-2012 09:13 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : 45400
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMBCSTR.m
 Meth Date : 08-May-2012 11:12 smsd01.i Quant Type: ISTD
 Cal Date : 10-APR-2012 09:54 Cal File: SIMCAL6.D
 Als bottle: 4 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.254	4.253	(1.000)	152	17912	0.80000		80.00- 120.00	100.00	
4.254	4.253	(1.000)	115	10615			32.50- 92.50	59.26	

* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406	(1.000)	136	65407	0.80000		80.00- 120.00	100.00	
5.406	5.406	(1.000)	68	2685			0.00- 34.01	4.11	

6 Naphthalene CAS #: 91-20-3									
5.430	5.429	(1.004)	128	8768	0.10000	0.098	80.00- 120.00	100.00	
5.430	5.429	(1.004)	129	933			0.00- 40.52	10.64	

8 2-Methylnaphthalene CAS #: 91-57-6									
6.093	6.093	(1.127)	142	5468	0.10000	0.098	80.00- 120.00	100.00	
6.093	6.082	(1.127)	141	4560			56.36- 116.36	83.39	

9 1-Methylnaphthalene CAS #: 90-12-0									
6.187	6.177	(1.144)	142	6009	0.10000	0.10	80.00- 120.00	100.00	
6.187	6.177	(1.144)	141	5085			49.28- 109.28	84.62	

\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.450	6.449	(0.908)	172	6797	0.10000	0.099	80.00- 120.00	100.00	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====
\$ 10 2-Fluorobiphenyl (SURR) (continued)								
6.450	6.449	(0.908)	171	2332			4.13- 64.13	34.31

12 Acenaphthylene						CAS #: 208-96-8		
6.964	6.964	(0.980)	152	8559	0.10000	0.10	80.00- 120.00	100.00
6.964	6.964	(0.980)	151	1678			0.00- 49.78	19.61

* 13 Acenaphthene-d10						CAS #: 15067-26-2		
7.105	7.105	(1.000)	164	37543	0.80000		80.00- 120.00	100.00
7.105	7.105	(1.000)	162	36296			64.70- 124.70	96.68

14 Acenaphthene						CAS #: 83-32-9		
7.131	7.131	(1.004)	153	5629	0.10000	0.098	80.00- 120.00	100.00
7.131	7.131	(1.004)	154	5093			60.47- 120.47	90.48

16 Fluorene						CAS #: 86-73-7		
7.641	7.641	(1.076)	166	6406	0.10000	0.10	80.00- 120.00	100.00
7.641	7.641	(1.076)	165	6057			64.52- 124.52	94.55

* 17 Phenanthrene-d10						CAS #: 1517-22-2		
8.555	8.555	(1.000)	188	68474	0.80000		80.00- 120.00	100.00
8.549	8.549	(1.000)	94	4757			0.00- 36.97	6.95

18 Phenanthrene						CAS #: 85-01-8		
8.575	8.575	(1.002)	178	8944	0.10000	0.096	80.00- 120.00	100.00
8.575	8.575	(1.002)	179	1319			0.00- 45.15	14.75

19 Anthracene						CAS #: 120-12-7		
8.627	8.626	(1.008)	178	6882	0.10000	0.10	80.00- 120.00	100.00
8.627	8.626	(1.008)	179	940			0.00- 45.16	13.66

21 Fluoranthene						CAS #: 206-44-0		
9.748	9.748	(1.139)	202	10370	0.10000	0.096	80.00- 120.00	100.00
9.748	9.741	(1.139)	101	860			0.00- 38.08	8.29

22 Pyrene						CAS #: 129-00-0		
9.967	9.967	(0.894)	202	10906	0.10000	0.096	80.00- 120.00	100.00
9.967	9.967	(0.894)	200	2332			0.00- 50.73	21.38

\$ 23 Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
10.124	10.124	(0.908)	244	6822	0.10000	0.098	80.00- 120.00	100.00
10.118	10.118	(0.908)	122	609			0.00- 38.43	8.93

25 Benzo[a]anthracene						CAS #: 56-55-3		
11.134	11.140	(0.999)	228	8701	0.10000	0.090	80.00- 120.00	100.00
11.140	11.140	(0.999)	229	1684			0.00- 50.51	19.35

* 26 Chrysene-d12						CAS #: 1719-03-5		
11.147	11.146	(1.000)	240	74339	0.80000		80.00- 120.00	100.00
11.140	11.140	(1.000)	120	5764			0.00- 37.78	7.75

27 Chrysene						CAS #: 218-01-9		
11.172	11.171	(1.002)	228	10619	0.10000	0.10	80.00- 120.00	100.00

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	====	=====	=====	=====	=====	=====	
27 Chrysene (continued)									
11.172	11.171	(1.002)	226	2954			0.00- 58.50	27.82	

30 Benzo[b]fluoranthene									
12.124	12.124	(0.973)	252	8624	0.10000	0.096	80.00- 120.00	100.00	
12.128	12.124	(0.973)	253	2077			0.00- 51.26	24.08	

31 Benzo[k]fluoranthene									
12.146	12.146	(0.975)	252	12352	0.10000	0.10	80.00- 120.00	100.00	
12.150	12.146	(0.975)	253	3078			0.00- 53.27	24.92	

32 Benzo[a]pyrene									
12.406	12.402	(0.996)	252	8608	0.10000	0.098	80.00- 120.00	100.00	
12.406	12.406	(0.996)	253	1867			0.00- 53.07	21.69	

* 33 Perylene-d12									
12.458	12.454	(1.000)	264	70041	0.80000		80.00- 120.00	100.00	
12.458	12.454	(1.000)	260	15711			0.00- 52.55	22.43	

34 Indeno[1,2,3-cd]pyrene									
13.461	13.454	(1.081)	276	10293	0.10000	0.097	80.00- 120.00	100.00	
13.461	13.454	(1.081)	138	2067			0.00- 49.54	20.08	

35 Dibenz[a,h]anthracene									
13.469	13.465	(1.081)	278	8304	0.10000	0.10	80.00- 120.00	100.00	
13.469	13.461	(1.081)	139	1054			0.00- 43.05	12.69	

36 Benzo[g,h,i]perylene									
13.741	13.737	(1.103)	276	9468	0.10000	0.100	80.00- 120.00	100.00	
13.741	13.733	(1.103)	138	1615			0.00- 46.66	17.06	

Data File: \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMCAL4.D

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Date : 07-MAY-2012 09:13

Client ID: SIMCAL4

Instrument: smsd01.i

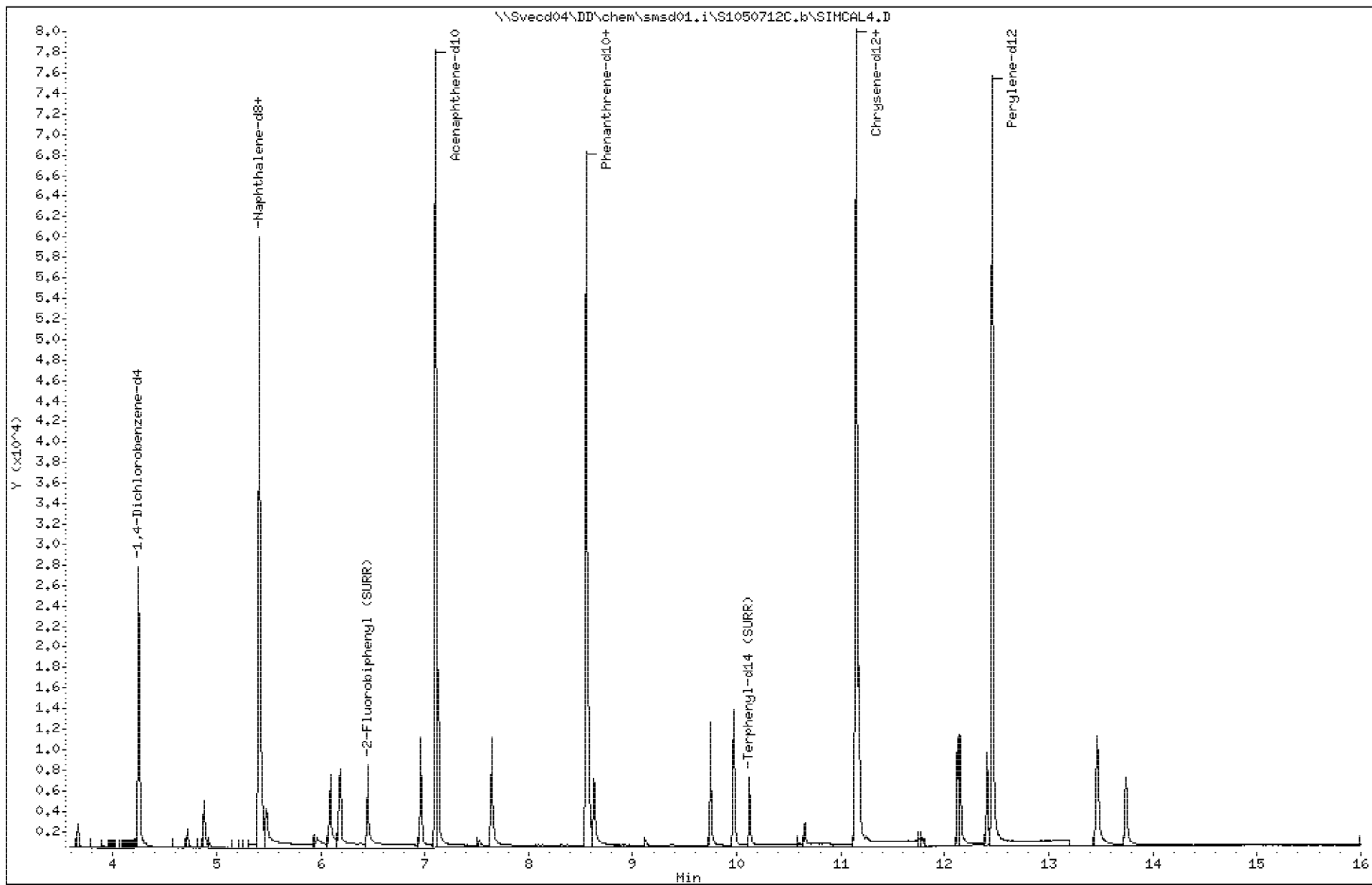
Sample Info: 45400

Purge Volume: 1000.0

Operator:

Column phase: HPMS-5

Column diameter: 0.25



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMCAL5.D
 Lab Smp Id: 45399 Client Smp ID: SIMCAL5
 Inj Date : 07-MAY-2012 09:37 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : 45399
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMBCSTR.m
 Meth Date : 08-May-2012 11:12 smsd01.i Quant Type: ISTD
 Cal Date : 10-APR-2012 09:54 Cal File: SIMCAL6.D
 Als bottle: 5 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.253	4.253	(1.000)	152	17078	0.80000		80.00- 120.00	100.00	
4.253	4.253	(1.000)	115	10365			32.50- 92.50	60.69	
* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406	(1.000)	136	62236	0.80000		80.00- 120.00	100.00	
5.406	5.406	(1.000)	68	2509			0.00- 34.01	4.03	
6 Naphthalene CAS #: 91-20-3									
5.429	5.429	(1.004)	128	16412	0.20000	0.19	80.00- 120.00	100.00	
5.429	5.429	(1.004)	129	1723			0.00- 40.52	10.50	
8 2-Methylnaphthalene CAS #: 91-57-6									
6.093	6.093	(1.127)	142	10453	0.20000	0.20	80.00- 120.00	100.00	
6.093	6.082	(1.127)	141	8745			56.36- 116.36	83.66	
9 1-Methylnaphthalene CAS #: 90-12-0									
6.187	6.177	(1.144)	142	11265	0.20000	0.20	80.00- 120.00	100.00	
6.177	6.177	(1.143)	141	8470			49.28- 109.28	75.19	
\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.449	6.449	(0.908)	172	12547	0.20000	0.19	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	====	=====	=====	=====	=====	=====	
\$ 10 2-Fluorobiphenyl (SURR) (continued)									
6.449	6.449	(0.908)	171	4283			4.13- 64.13	34.14	

12 Acenaphthylene CAS #: 208-96-8									
6.964	6.964	(0.980)	152	15998	0.20000	0.20	80.00- 120.00	100.00	
6.964	6.964	(0.980)	151	3098			0.00- 49.78	19.36	

* 13 Acenaphthene-d10 CAS #: 15067-26-2									
7.105	7.105	(1.000)	164	35429	0.80000		80.00- 120.00	100.00	
7.105	7.105	(1.000)	162	33507			64.70- 124.70	94.58	

14 Acenaphthene CAS #: 83-32-9									
7.131	7.131	(1.004)	153	10469	0.20000	0.19	80.00- 120.00	100.00	
7.131	7.131	(1.004)	154	9428			60.47- 120.47	90.06	

16 Fluorene CAS #: 86-73-7									
7.641	7.641	(1.076)	166	11724	0.20000	0.19	80.00- 120.00	100.00	
7.641	7.641	(1.076)	165	11177			64.52- 124.52	95.33	

* 17 Phenanthrene-d10 CAS #: 1517-22-2									
8.555	8.555	(1.000)	188	63086	0.80000		80.00- 120.00	100.00	
8.549	8.549	(1.000)	94	4425			0.00- 36.97	7.01	

18 Phenanthrene CAS #: 85-01-8									
8.575	8.575	(1.002)	178	16684	0.20000	0.20	80.00- 120.00	100.00	
8.575	8.575	(1.002)	179	2492			0.00- 45.15	14.94	

19 Anthracene CAS #: 120-12-7									
8.626	8.626	(1.008)	178	12939	0.20000	0.21	80.00- 120.00	100.00	
8.633	8.626	(1.009)	179	1816			0.00- 45.16	14.04	

21 Fluoranthene CAS #: 206-44-0									
9.748	9.748	(1.139)	202	19662	0.20000	0.20	80.00- 120.00	100.00	
9.741	9.741	(1.139)	101	1582			0.00- 38.08	8.05	

22 Pyrene CAS #: 129-00-0									
9.967	9.967	(0.894)	202	20385	0.20000	0.19	80.00- 120.00	100.00	
9.967	9.967	(0.894)	200	4323			0.00- 50.73	21.21	

\$ 23 Terphenyl-d14 (SURR) CAS #: 1718-51-0									
10.124	10.124	(0.908)	244	13082	0.20000	0.20	80.00- 120.00	100.00	
10.118	10.118	(0.908)	122	1117			0.00- 38.43	8.54	

25 Benzo[a]anthracene CAS #: 56-55-3									
11.140	11.140	(0.999)	228	16204	0.20000	0.18	80.00- 120.00	100.00	
11.140	11.140	(0.999)	229	3343			0.00- 50.51	20.63	

* 26 Chrysene-d12 CAS #: 1719-03-5									
11.146	11.146	(1.000)	240	70863	0.80000		80.00- 120.00	100.00	
11.140	11.140	(1.000)	120	5633			0.00- 37.78	7.95	

27 Chrysene CAS #: 218-01-9									
11.171	11.171	(1.002)	228	19749	0.20000	0.20	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	====	=====	=====	=====	=====	=====	=====
27 Chrysene (continued)									
11.171	11.171	(1.002)	226	5627			0.00- 58.50	28.49	

30 Benzo[b]fluoranthene CAS #: 205-99-2									
12.124	12.124	(0.973)	252	17271	0.20000	0.20	80.00- 120.00	100.00	
12.124	12.124	(0.973)	253	3690			0.00- 51.26	21.37	

31 Benzo[k]fluoranthene CAS #: 207-08-9									
12.146	12.146	(0.975)	252	22256	0.20000	0.18	80.00- 120.00	100.00	
12.146	12.146	(0.975)	253	4673			0.00- 53.27	21.00	

32 Benzo[a]pyrene CAS #: 50-32-8									
12.406	12.402	(0.996)	252	16800	0.20000	0.20	80.00- 120.00	100.00	
12.406	12.406	(0.996)	253	4458			0.00- 53.07	26.54	

* 33 Perylene-d12 CAS #: 1520-96-3									
12.458	12.454	(1.000)	264	68394	0.80000		80.00- 120.00	100.00	
12.454	12.454	(1.000)	260	15199			0.00- 52.55	22.22	

34 Indeno[1,2,3-cd]pyrene CAS #: 193-39-5									
13.457	13.454	(1.080)	276	20460	0.20000	0.20	80.00- 120.00	100.00	
13.457	13.454	(1.080)	138	4059			0.00- 49.54	19.84	

35 Dibenz[a,h]anthracene CAS #: 53-70-3									
13.465	13.465	(1.081)	278	16326	0.20000	0.20	80.00- 120.00	100.00	
13.465	13.461	(1.081)	139	2038			0.00- 43.05	12.48	

36 Benzo[g,h,i]perylene CAS #: 191-24-2									
13.737	13.737	(1.103)	276	17982	0.20000	0.19	80.00- 120.00	100.00	
13.737	13.733	(1.103)	138	3024			0.00- 46.66	16.82	

Date : 07-MAY-2012 09:37

Client ID: SIMCAL5

Instrument: smsd01.i

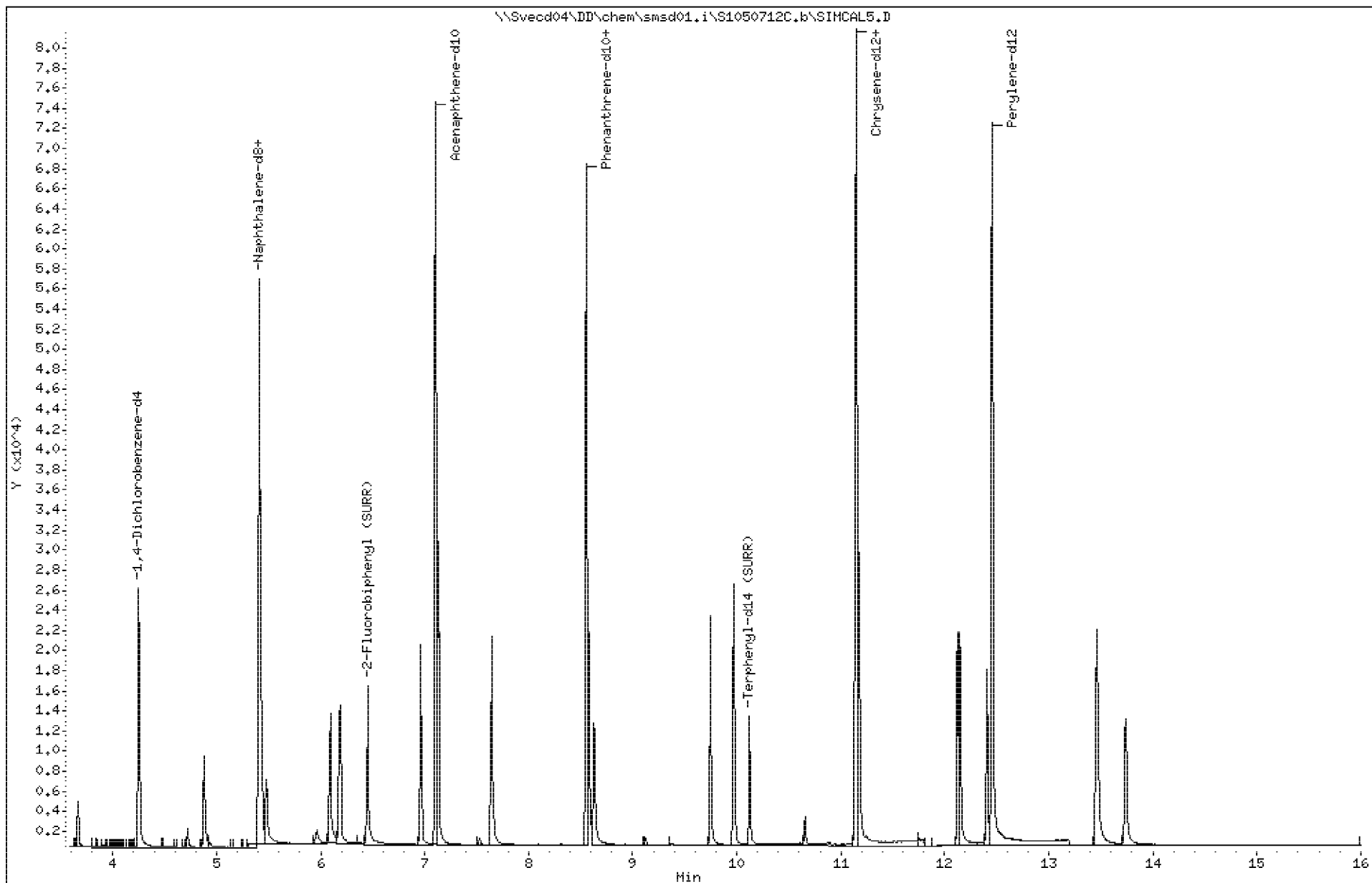
Sample Info: 45399

Operator:

Purge Volume: 1000.0

Column diameter: 0.25

Column phase: HPMS-5



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMCAL6.D
 Lab Smp Id: 46068 Client Smp ID: SIMCAL6
 Inj Date : 07-MAY-2012 10:01 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : 46068
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMBCSTR.m
 Meth Date : 08-May-2012 11:12 smsd01.i Quant Type: ISTD
 Cal Date : 10-APR-2012 09:54 Cal File: SIMCAL6.D
 Als bottle: 6 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.253	4.253	(1.000)	152	14769	0.80000		80.00- 120.00	100.00	
4.253	4.253	(1.000)	115	9231			32.50- 92.50	62.50	

* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406	(1.000)	136	54933	0.80000		80.00- 120.00	100.00	
5.406	5.406	(1.000)	68	2201			0.00- 34.01	4.01	

6 Naphthalene CAS #: 91-20-3									
5.429	5.429	(1.004)	128	39517	0.50000	0.53	80.00- 120.00	100.00	
5.429	5.429	(1.004)	129	4156			0.00- 40.52	10.52	

8 2-Methylnaphthalene CAS #: 91-57-6									
6.093	6.093	(1.127)	142	25460	0.50000	0.53	80.00- 120.00	100.00	
6.082	6.082	(1.125)	141	21986			56.36- 116.36	86.36	

9 1-Methylnaphthalene CAS #: 90-12-0									
6.177	6.177	(1.143)	142	26603	0.50000	0.54	80.00- 120.00	100.00(M)	
6.177	6.177	(1.143)	141	21090			49.28- 109.28	79.28	

\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.449	6.449	(0.908)	172	31799	0.50000	0.54	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	====	=====	=====	=====	=====	=====	=====
\$ 10 2-Fluorobiphenyl (SURR) (continued)									
6.449	6.449	(0.908)	171	10852			4.13- 64.13	34.13	

12 Acenaphthylene CAS #: 208-96-8									
6.964	6.964	(0.980)	152	39969	0.50000	0.54	80.00- 120.00	100.00	
6.964	6.964	(0.980)	151	7907			0.00- 49.78	19.78	

* 13 Acenaphthene-d10 CAS #: 15067-26-2									
7.105	7.105	(1.000)	164	32728	0.80000		80.00- 120.00	100.00	
7.105	7.105	(1.000)	162	30992			64.70- 124.70	94.70	

14 Acenaphthene CAS #: 83-32-9									
7.131	7.131	(1.004)	153	25921	0.50000	0.52	80.00- 120.00	100.00	
7.131	7.131	(1.004)	154	23450			60.47- 120.47	90.47	

16 Fluorene CAS #: 86-73-7									
7.641	7.641	(1.076)	166	30331	0.50000	0.54	80.00- 120.00	100.00	
7.641	7.641	(1.076)	165	28669			64.52- 124.52	94.52	

* 17 Phenanthrene-d10 CAS #: 1517-22-2									
8.555	8.555	(1.000)	188	58351	0.80000		80.00- 120.00	100.00	
8.549	8.549	(1.000)	94	4065			0.00- 36.97	6.97	

18 Phenanthrene CAS #: 85-01-8									
8.575	8.575	(1.002)	178	42906	0.50000	0.54	80.00- 120.00	100.00	
8.575	8.575	(1.002)	179	6501			0.00- 45.15	15.15	

19 Anthracene CAS #: 120-12-7									
8.626	8.626	(1.008)	178	32609	0.50000	0.54	80.00- 120.00	100.00	
8.626	8.626	(1.008)	179	4943			0.00- 45.16	15.16	

21 Fluoranthene CAS #: 206-44-0									
9.748	9.748	(1.139)	202	49599	0.50000	0.54	80.00- 120.00	100.00	
9.741	9.741	(1.139)	101	4006			0.00- 38.08	8.08	

22 Pyrene CAS #: 129-00-0									
9.967	9.967	(0.894)	202	50382	0.50000	0.53	80.00- 120.00	100.00	
9.967	9.967	(0.894)	200	10445			0.00- 50.73	20.73	

\$ 23 Terphenyl-d14 (SURR) CAS #: 1718-51-0									
10.124	10.124	(0.908)	244	33023	0.50000	0.54	80.00- 120.00	100.00	
10.118	10.118	(0.908)	122	2784			0.00- 38.43	8.43	

25 Benzo[a]anthracene CAS #: 56-55-3									
11.140	11.140	(0.999)	228	41822	0.50000	0.52	80.00- 120.00	100.00	
11.140	11.140	(0.999)	229	8576			0.00- 50.51	20.51	

* 26 Chrysene-d12 CAS #: 1719-03-5									
11.146	11.146	(1.000)	240	65441	0.80000		80.00- 120.00	100.00	
11.140	11.140	(1.000)	120	5092			0.00- 37.78	7.78	

27 Chrysene CAS #: 218-01-9									
11.171	11.171	(1.002)	228	49902	0.50000	0.54	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
27 Chrysene (continued)									
11.171	11.171	(1.002)	226	14223			0.00- 58.50	28.50	

30 Benzo[b]fluoranthene CAS #: 205-99-2									
12.124	12.124	(0.973)	252	47477	0.50000	0.56	80.00- 120.00	100.00	
12.124	12.124	(0.973)	253	10093			0.00- 51.26	21.26	

31 Benzo[k]fluoranthene CAS #: 207-08-9									
12.146	12.146	(0.975)	252	54376	0.50000	0.52	80.00- 120.00	100.00	
12.146	12.146	(0.975)	253	12655			0.00- 53.27	23.27	

32 Benzo[a]pyrene CAS #: 50-32-8									
12.402	12.402	(0.996)	252	41767	0.50000	0.53	80.00- 120.00	100.00(M)	
12.406	12.406	(0.996)	253	9635			0.00- 53.07	23.07	

* 33 Perylene-d12 CAS #: 1520-96-3									
12.454	12.454	(1.000)	264	61576	0.80000		80.00- 120.00	100.00	
12.454	12.454	(1.000)	260	13886			0.00- 52.55	22.55	

34 Indeno[1,2,3-cd]pyrene CAS #: 193-39-5									
13.454	13.454	(1.080)	276	53309	0.50000	0.55	80.00- 120.00	100.00	
13.454	13.454	(1.080)	138	10418			0.00- 49.54	19.54	

35 Dibenz[a,h]anthracene CAS #: 53-70-3									
13.465	13.465	(1.081)	278	42547	0.50000	0.55	80.00- 120.00	100.00	
13.461	13.461	(1.081)	139	5553			0.00- 43.05	13.05	

36 Benzo[g,h,i]perylene CAS #: 191-24-2									
13.737	13.737	(1.103)	276	46275	0.50000	0.54	80.00- 120.00	100.00	
13.733	13.733	(1.103)	138	7711			0.00- 46.66	16.66	

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMCAL6.D

Page 4

Date : 07-MAY-2012 10:01

Client ID: SIMCAL6

Instrument: smsd01.i

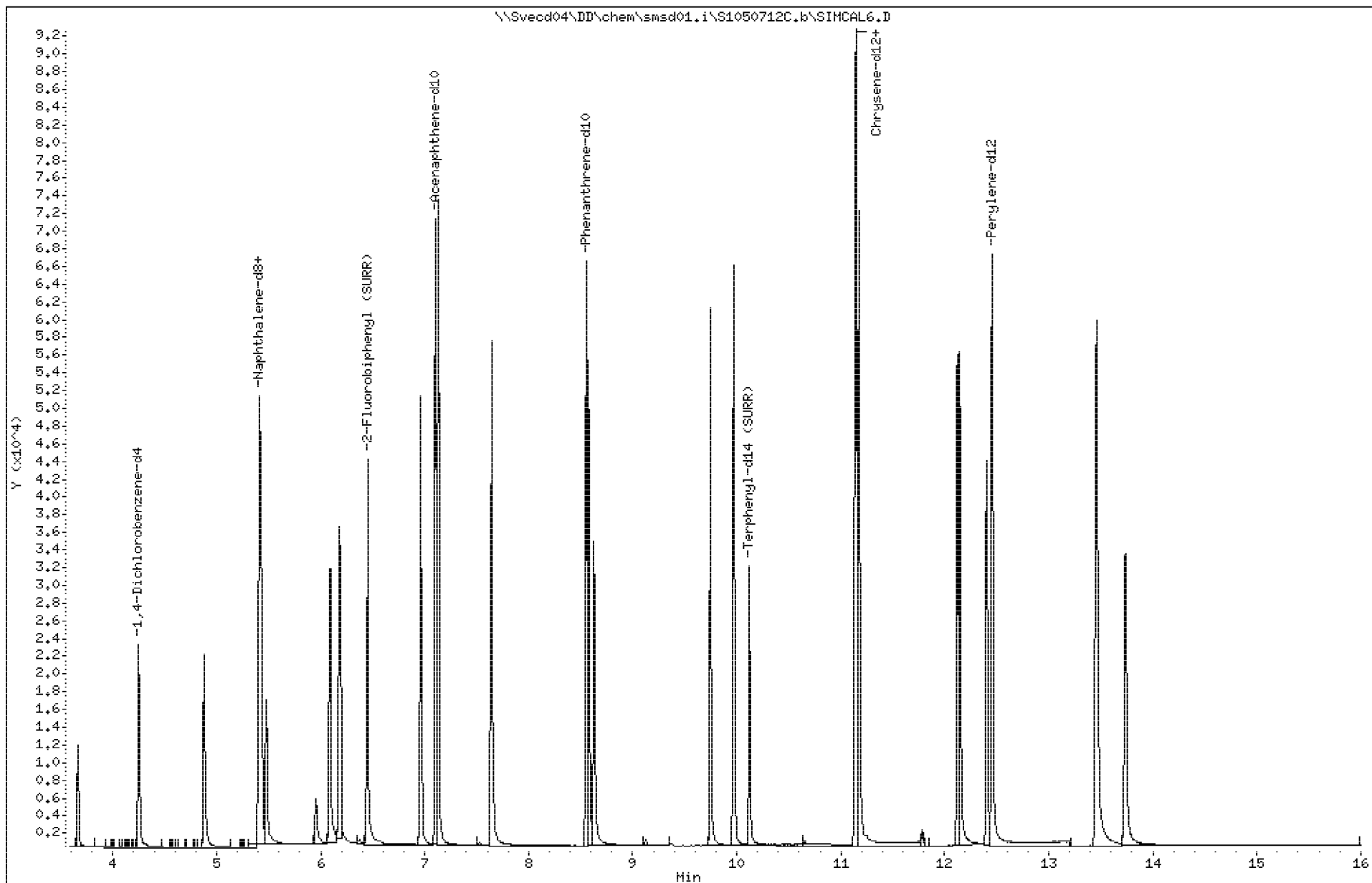
Sample Info: 46068

Operator:

Purge Volume: 1000.0

Column phase: HPMS-5

Column diameter: 0.25



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMCAL7.D
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 Inj Date : 07-MAY-2012 10:25 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : 45397
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMBCSTR.m
 Meth Date : 08-May-2012 11:12 smsd01.i Quant Type: ISTD
 Cal Date : 10-APR-2012 09:54 Cal File: SIMCAL6.D
 Als bottle: 7 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.254	4.253	(1.000)	152	16379	0.80000		80.00- 120.00	100.00	
4.254	4.253	(1.000)	115	10273			32.50- 92.50	62.72	

* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406	(1.000)	136	60060	0.80000		80.00- 120.00	100.00	
5.406	5.406	(1.000)	68	2424			0.00- 34.01	4.04	

6 Naphthalene CAS #: 91-20-3									
5.429	5.429	(1.004)	128	55313	0.70000	0.68	80.00- 120.00	100.00	
5.429	5.429	(1.004)	129	5892			0.00- 40.52	10.65	

8 2-Methylnaphthalene CAS #: 91-57-6									
6.082	6.093	(1.125)	142	35319	0.70000	0.69	80.00- 120.00	100.00	
6.082	6.082	(1.125)	141	30263			56.36- 116.36	85.68	

9 1-Methylnaphthalene CAS #: 90-12-0									
6.177	6.177	(1.143)	142	35790	0.70000	0.66	80.00- 120.00	100.00(M)	
6.177	6.177	(1.143)	141	29315			49.28- 109.28	81.91	

\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.450	6.449	(0.908)	172	43582	0.70000	0.70	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 10 2-Fluorobiphenyl (SURR) (continued)									
6.450	6.449	(0.908)	171	14748			4.13- 64.13	33.84	

12 Acenaphthylene CAS #: 208-96-8									
6.964	6.964	(0.980)	152	54039	0.70000	0.70	80.00- 120.00	100.00	
6.964	6.964	(0.980)	151	10620			0.00- 49.78	19.65	

* 13 Acenaphthene-d10 CAS #: 15067-26-2									
7.105	7.105	(1.000)	164	34165	0.80000		80.00- 120.00	100.00	
7.105	7.105	(1.000)	162	32149			64.70- 124.70	94.10	

14 Acenaphthene CAS #: 83-32-9									
7.131	7.131	(1.004)	153	35189	0.70000	0.68	80.00- 120.00	100.00	
7.131	7.131	(1.004)	154	31697			60.47- 120.47	90.08	

16 Fluorene CAS #: 86-73-7									
7.641	7.641	(1.076)	166	40710	0.70000	0.70	80.00- 120.00	100.00	
7.641	7.641	(1.076)	165	38743			64.52- 124.52	95.17	

* 17 Phenanthrene-d10 CAS #: 1517-22-2									
8.555	8.555	(1.000)	188	61370	0.80000		80.00- 120.00	100.00	
8.549	8.549	(1.000)	94	4221			0.00- 36.97	6.88	

18 Phenanthrene CAS #: 85-01-8									
8.575	8.575	(1.002)	178	58631	0.70000	0.70	80.00- 120.00	100.00	
8.575	8.575	(1.002)	179	8835			0.00- 45.15	15.07	

19 Anthracene CAS #: 120-12-7									
8.627	8.626	(1.008)	178	45005	0.70000	0.72	80.00- 120.00	100.00	
8.627	8.626	(1.008)	179	6693			0.00- 45.16	14.87	

21 Fluoranthene CAS #: 206-44-0									
9.748	9.748	(1.139)	202	68805	0.70000	0.71	80.00- 120.00	100.00	
9.741	9.741	(1.139)	101	5382			0.00- 38.08	7.82	

22 Pyrene CAS #: 129-00-0									
9.967	9.967	(0.894)	202	70829	0.70000	0.67	80.00- 120.00	100.00	
9.967	9.967	(0.894)	200	14749			0.00- 50.73	20.82	

\$ 23 Terphenyl-d14 (SURR) CAS #: 1718-51-0									
10.118	10.124	(0.908)	244	46046	0.70000	0.68	80.00- 120.00	100.00	
10.118	10.118	(0.908)	122	3958			0.00- 38.43	8.60	

25 Benzo[a]anthracene CAS #: 56-55-3									
11.134	11.140	(0.999)	228	59400	0.70000	0.67	80.00- 120.00	100.00	
11.134	11.140	(0.999)	229	11476			0.00- 50.51	19.32	

* 26 Chrysene-d12 CAS #: 1719-03-5									
11.146	11.146	(1.000)	240	71827	0.80000		80.00- 120.00	100.00	
11.140	11.140	(1.000)	120	5443			0.00- 37.78	7.58	

27 Chrysene CAS #: 218-01-9									
11.172	11.171	(1.002)	228	68880	0.70000	0.68	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
27 Chrysene (continued)									
11.172	11.171	(1.002)	226	19536			0.00- 58.50	28.36	

30 Benzo[b]fluoranthene CAS #: 205-99-2									
12.120	12.124	(0.973)	252	61210	0.70000	0.69	80.00- 120.00	100.00	
12.124	12.124	(0.973)	253	14306			0.00- 51.26	23.37	

31 Benzo[k]fluoranthene CAS #: 207-08-9									
12.142	12.146	(0.975)	252	80738	0.70000	0.70	80.00- 120.00	100.00	
12.146	12.146	(0.975)	253	15992			0.00- 53.27	19.81	

32 Benzo[a]pyrene CAS #: 50-32-8									
12.402	12.402	(0.996)	252	58406	0.70000	0.69	80.00- 120.00	100.00(M)	
12.406	12.406	(0.996)	253	12976			0.00- 53.07	22.22	

* 33 Perylene-d12 CAS #: 1520-96-3									
12.454	12.454	(1.000)	264	66609	0.80000		80.00- 120.00	100.00	
12.454	12.454	(1.000)	260	14826			0.00- 52.55	22.26	

34 Indeno[1,2,3-cd]pyrene CAS #: 193-39-5									
13.454	13.454	(1.080)	276	73695	0.70000	0.71	80.00- 120.00	100.00	
13.454	13.454	(1.080)	138	14524			0.00- 49.54	19.71	

35 Dibenz[a,h]anthracene CAS #: 53-70-3									
13.461	13.465	(1.081)	278	59345	0.70000	0.72	80.00- 120.00	100.00	
13.461	13.461	(1.081)	139	7449			0.00- 43.05	12.55	

36 Benzo[g,h,i]perylene CAS #: 191-24-2									
13.737	13.737	(1.103)	276	63120	0.70000	0.69	80.00- 120.00	100.00	
13.733	13.733	(1.103)	138	10516			0.00- 46.66	16.66	

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMCAL7.D

Page 4

Date : 07-MAY-2012 10:25

Client ID: SIMCAL7

Instrument: smsd01.i

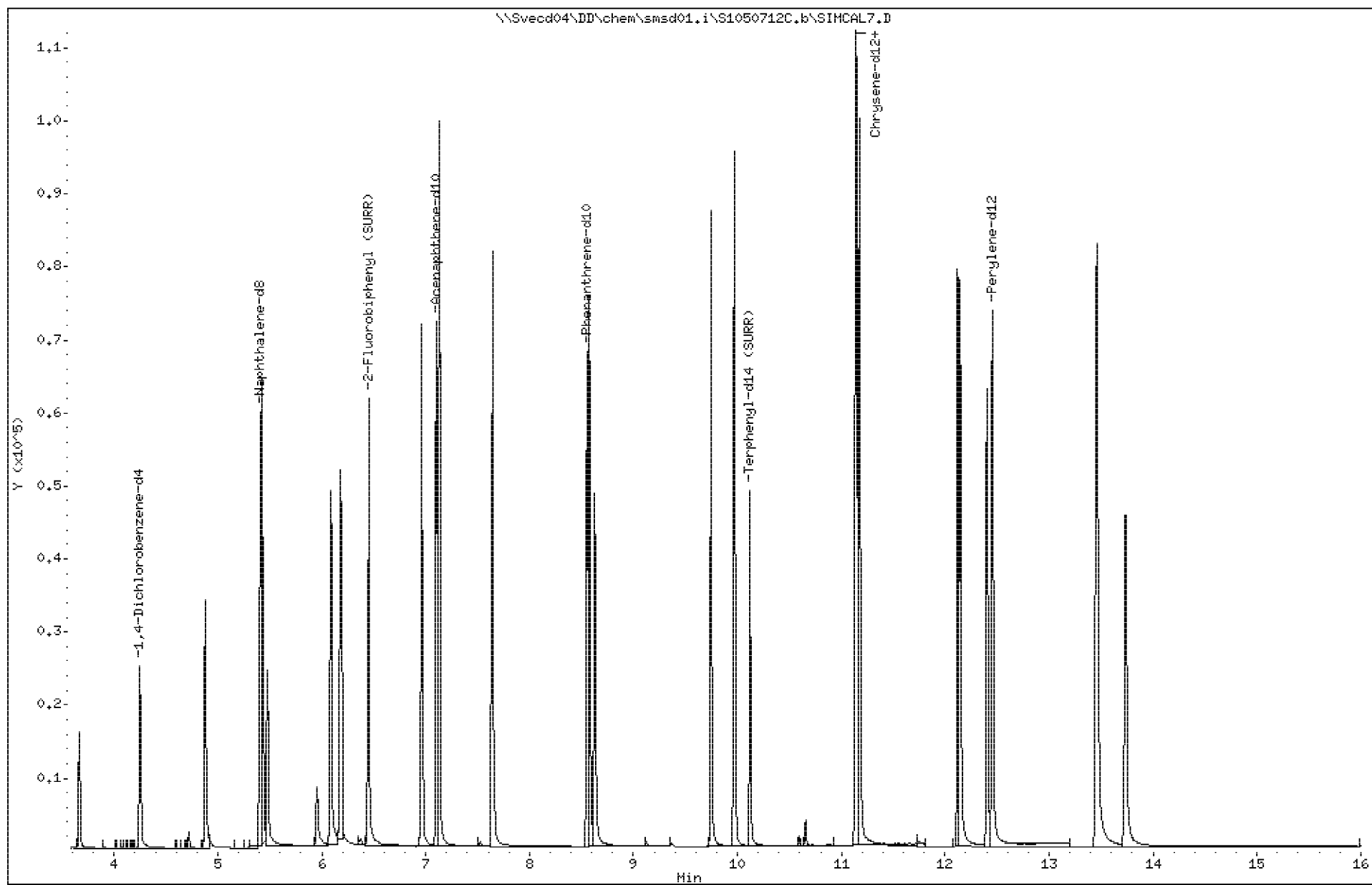
Sample Info: 45397

Purge Volume: 1000.0

Operator:

Column phase: HPMS-5

Column diameter: 0.25



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMCAL8.D
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 Inj Date : 07-MAY-2012 10:49 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : 45396
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMBCSTR.m
 Meth Date : 08-May-2012 11:12 smsd01.i Quant Type: ISTD
 Cal Date : 10-APR-2012 09:54 Cal File: SIMCAL6.D
 Als bottle: 8 Calibration Sample, Level: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.254	4.253	(1.000)	152	16045	0.80000		80.00- 120.00	100.00	
4.254	4.253	(1.000)	115	9782			32.50- 92.50	60.97	

* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406	(1.000)	136	57616	0.80000		80.00- 120.00	100.00	
5.406	5.406	(1.000)	68	2321			0.00- 34.01	4.03	

6 Naphthalene CAS #: 91-20-3									
5.430	5.429	(1.004)	128	77119	1.00000	0.98	80.00- 120.00	100.00	
5.430	5.429	(1.004)	129	8138			0.00- 40.52	10.55	

8 2-Methylnaphthalene CAS #: 91-57-6									
6.082	6.093	(1.125)	142	47886	1.00000	0.97	80.00- 120.00	100.00	
6.082	6.082	(1.125)	141	40699			56.36- 116.36	84.99	

9 1-Methylnaphthalene CAS #: 90-12-0									
6.177	6.177	(1.143)	142	49826	1.00000	0.96	80.00- 120.00	100.00(M)	
6.177	6.177	(1.143)	141	40535			49.28- 109.28	81.35	

\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.450	6.449	(0.908)	172	59029	1.00000	0.98	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	====	=====	=====	=====	=====	=====	
\$ 10 2-Fluorobiphenyl (SURR) (continued)									
6.450	6.449	(0.908)	171	19991			4.13- 64.13	33.87	

12 Acenaphthylene CAS #: 208-96-8									
6.964	6.964	(0.980)	152	72929	1.00000	0.97	80.00- 120.00	100.00	
6.964	6.964	(0.980)	151	14740			0.00- 49.78	20.21	

* 13 Acenaphthene-d10 CAS #: 15067-26-2									
7.105	7.105	(1.000)	164	33012	0.80000		80.00- 120.00	100.00	
7.105	7.105	(1.000)	162	31171			64.70- 124.70	94.42	

14 Acenaphthene CAS #: 83-32-9									
7.131	7.131	(1.004)	153	49228	1.00000	0.98	80.00- 120.00	100.00	
7.131	7.131	(1.004)	154	44667			60.47- 120.47	90.73	

16 Fluorene CAS #: 86-73-7									
7.641	7.641	(1.076)	166	56261	1.00000	0.99	80.00- 120.00	100.00	
7.641	7.641	(1.076)	165	53526			64.52- 124.52	95.14	

* 17 Phenanthrene-d10 CAS #: 1517-22-2									
8.555	8.555	(1.000)	188	60145	0.80000		80.00- 120.00	100.00	
8.549	8.549	(1.000)	94	4004			0.00- 36.97	6.66	

18 Phenanthrene CAS #: 85-01-8									
8.575	8.575	(1.002)	178	81556	1.00000	1.00	80.00- 120.00	100.00	
8.575	8.575	(1.002)	179	12247			0.00- 45.15	15.02	

19 Anthracene CAS #: 120-12-7									
8.627	8.626	(1.008)	178	62268	1.00000	1.0	80.00- 120.00	100.00	
8.627	8.626	(1.008)	179	9054			0.00- 45.16	14.54	

21 Fluoranthene CAS #: 206-44-0									
9.748	9.748	(1.139)	202	94926	1.00000	1.00	80.00- 120.00	100.00	
9.742	9.741	(1.139)	101	7477			0.00- 38.08	7.88	

22 Pyrene CAS #: 129-00-0									
9.967	9.967	(0.894)	202	97635	1.00000	0.95	80.00- 120.00	100.00	
9.967	9.967	(0.894)	200	20066			0.00- 50.73	20.55	

\$ 23 Terphenyl-d14 (SURR) CAS #: 1718-51-0									
10.118	10.124	(0.908)	244	62865	1.00000	0.97	80.00- 120.00	100.00	
10.118	10.118	(0.908)	122	5335			0.00- 38.43	8.49	

25 Benzo[a]anthracene CAS #: 56-55-3									
11.134	11.140	(0.999)	228	82824	1.00000	0.97	80.00- 120.00	100.00	
11.134	11.140	(0.999)	229	16023			0.00- 50.51	19.35	

* 26 Chrysene-d12 CAS #: 1719-03-5									
11.147	11.146	(1.000)	240	69308	0.80000		80.00- 120.00	100.00	
11.140	11.140	(1.000)	120	5194			0.00- 37.78	7.49	

27 Chrysene CAS #: 218-01-9									
11.172	11.171	(1.002)	228	98133	1.00000	1.0	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	====	=====	=====	=====	=====	=====	
27 Chrysene (continued)									
11.172	11.171	(1.002)	226	26727			0.00- 58.50	27.24	

30 Benzo[b]fluoranthene CAS #: 205-99-2									
12.124	12.124	(0.973)	252	87864	1.00000	1.0	80.00- 120.00	100.00	
12.124	12.124	(0.973)	253	18454			0.00- 51.26	21.00	

31 Benzo[k]fluoranthene CAS #: 207-08-9									
12.146	12.146	(0.975)	252	107144	1.00000	0.98	80.00- 120.00	100.00	
12.146	12.146	(0.975)	253	23122			0.00- 53.27	21.58	

32 Benzo[a]pyrene CAS #: 50-32-8									
12.406	12.402	(0.996)	252	80248	1.00000	1.0	80.00- 120.00	100.00(M)	
12.406	12.406	(0.996)	253	18117			0.00- 53.07	22.58	

* 33 Perylene-d12 CAS #: 1520-96-3									
12.458	12.454	(1.000)	264	63023	0.80000		80.00- 120.00	100.00	
12.458	12.454	(1.000)	260	14031			0.00- 52.55	22.26	

34 Indeno[1,2,3-cd]pyrene CAS #: 193-39-5									
13.457	13.454	(1.080)	276	102292	1.00000	1.0	80.00- 120.00	100.00	
13.457	13.454	(1.080)	138	19669			0.00- 49.54	19.23	

35 Dibenz[a,h]anthracene CAS #: 53-70-3									
13.465	13.465	(1.081)	278	80845	1.00000	1.0	80.00- 120.00	100.00	
13.465	13.461	(1.081)	139	10185			0.00- 43.05	12.60	

36 Benzo[g,h,i]perylene CAS #: 191-24-2									
13.741	13.737	(1.103)	276	88652	1.00000	1.0	80.00- 120.00	100.00	
13.737	13.733	(1.103)	138	14430			0.00- 46.66	16.28	

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMCAL8.D

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Date : 07-MAY-2012 10:49

Client ID: SIMCAL8

Instrument: smsd01.i

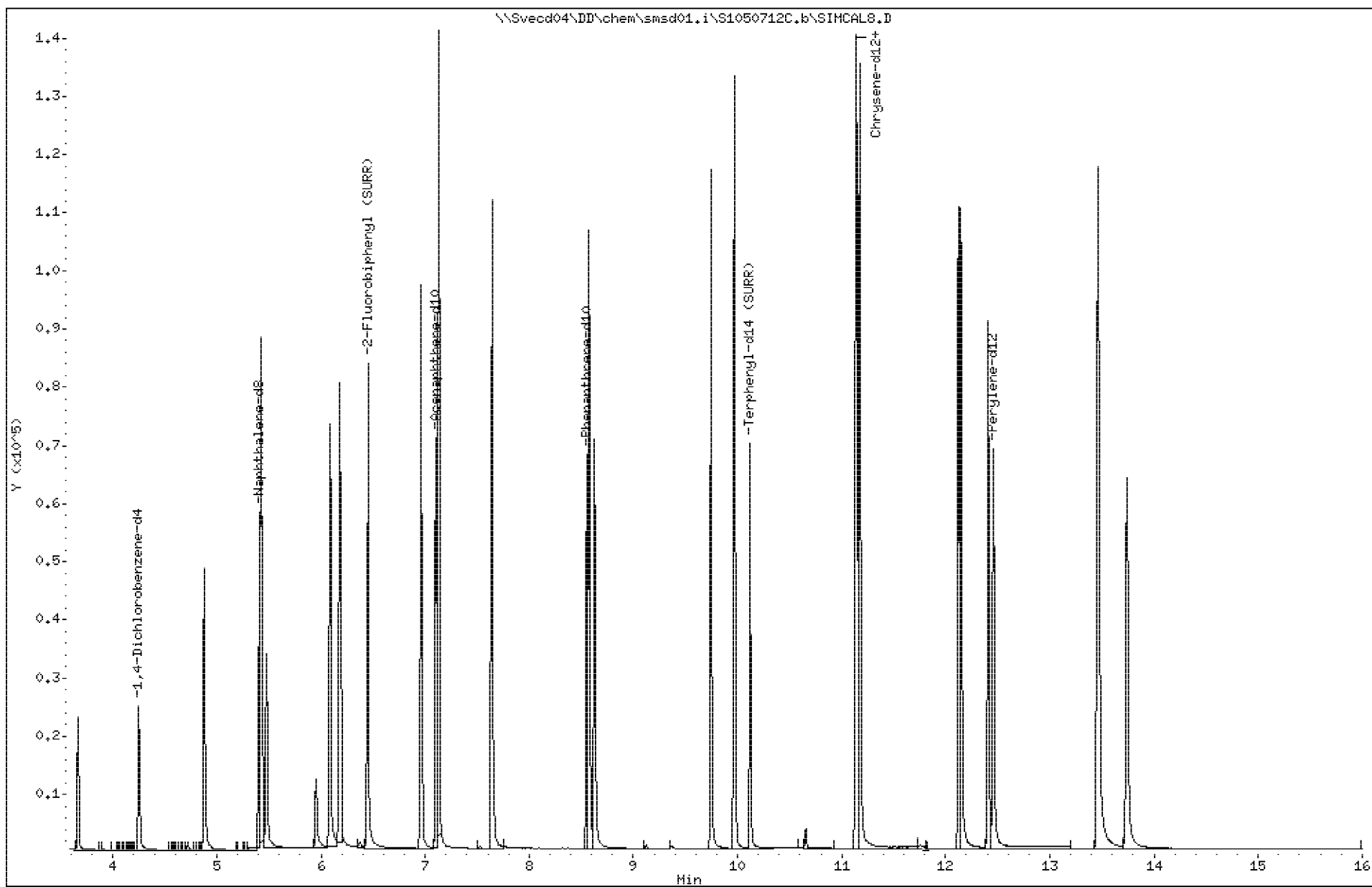
Sample Info: 45396

Purge Volume: 1000.0

Operator:

Column phase: HPMS-5

Column diameter: 0.25



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMCAL9.D
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 Inj Date : 07-MAY-2012 11:13 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : 45395
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMBCSTR.m
 Meth Date : 08-May-2012 11:12 smsd01.i Quant Type: ISTD
 Cal Date : 10-APR-2012 09:54 Cal File: SIMCAL6.D
 Als bottle: 9 Calibration Sample, Level: 9
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.253	4.253	(1.000)	152	15272	0.80000		80.00- 120.00	100.00	
4.253	4.253	(1.000)	115	9378			32.50- 92.50	61.41	

* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406	(1.000)	136	53371	0.80000		80.00- 120.00	100.00	
5.406	5.406	(1.000)	68	2140			0.00- 34.01	4.01	

6 Naphthalene CAS #: 91-20-3									
5.429	5.429	(1.004)	128	354403	5.00000	4.9	80.00- 120.00	100.00	
5.429	5.429	(1.004)	129	38681			0.00- 40.52	10.91	

8 2-Methylnaphthalene CAS #: 91-57-6									
6.082	6.093	(1.125)	142	251048	5.00000	5.4	80.00- 120.00	100.00(M)	
6.082	6.082	(1.125)	141	204873			56.36- 116.36	81.61	

9 1-Methylnaphthalene CAS #: 90-12-0									
6.177	6.177	(1.143)	142	235314	5.00000	4.9	80.00- 120.00	100.00(M)	
6.177	6.177	(1.143)	141	198205			49.28- 109.28	84.23	

\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.449	6.449	(0.908)	172	282113	5.00000	4.8	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	
\$ 10 2-Fluorobiphenyl (SURR) (continued)									
6.449	6.449	(0.908)	171	96724			4.13- 64.13	34.29	

12 Acenaphthylene CAS #: 208-96-8									
6.964	6.964	(0.980)	152	369804	5.00000	5.0	80.00- 120.00	100.00	
6.964	6.964	(0.980)	151	72373			0.00- 49.78	19.57	

* 13 Acenaphthene-d10 CAS #: 15067-26-2									
7.105	7.105	(1.000)	164	32307	0.80000		80.00- 120.00	100.00	
7.105	7.105	(1.000)	162	30275			64.70- 124.70	93.71	

14 Acenaphthene CAS #: 83-32-9									
7.131	7.131	(1.004)	153	239957	5.00000	4.9	80.00- 120.00	100.00	
7.131	7.131	(1.004)	154	221889			60.47- 120.47	92.47	

16 Fluorene CAS #: 86-73-7									
7.641	7.641	(1.076)	166	279481	5.00000	5.0	80.00- 120.00	100.00	
7.641	7.641	(1.076)	165	265578			64.52- 124.52	95.03	

* 17 Phenanthrene-d10 CAS #: 1517-22-2									
8.555	8.555	(1.000)	188	59179	0.80000		80.00- 120.00	100.00	
8.549	8.549	(1.000)	94	3992			0.00- 36.97	6.75	

18 Phenanthrene CAS #: 85-01-8									
8.575	8.575	(1.002)	178	410966	5.00000	5.1	80.00- 120.00	100.00	
8.575	8.575	(1.002)	179	62807			0.00- 45.15	15.28	

19 Anthracene CAS #: 120-12-7									
8.626	8.626	(1.008)	178	315742	5.00000	5.2	80.00- 120.00	100.00	
8.626	8.626	(1.008)	179	48210			0.00- 45.16	15.27	

21 Fluoranthene CAS #: 206-44-0									
9.748	9.748	(1.139)	202	480587	5.00000	5.1	80.00- 120.00	100.00	
9.741	9.741	(1.139)	101	37165			0.00- 38.08	7.73	

22 Pyrene CAS #: 129-00-0									
9.967	9.967	(0.894)	202	482093	5.00000	4.7	80.00- 120.00	100.00	
9.967	9.967	(0.894)	200	100095			0.00- 50.73	20.76	

\$ 23 Terphenyl-d14 (SURR) CAS #: 1718-51-0									
10.118	10.124	(0.908)	244	318155	5.00000	4.9	80.00- 120.00	100.00	
10.118	10.118	(0.908)	122	26976			0.00- 38.43	8.48	

25 Benzo[a]anthracene CAS #: 56-55-3									
11.134	11.140	(0.999)	228	438747	5.00000	5.1	80.00- 120.00	100.00	
11.134	11.140	(0.999)	229	86191			0.00- 50.51	19.64	

* 26 Chrysene-d12 CAS #: 1719-03-5									
11.146	11.146	(1.000)	240	69127	0.80000		80.00- 120.00	100.00	
11.140	11.140	(1.000)	120	5243			0.00- 37.78	7.58	

27 Chrysene CAS #: 218-01-9									
11.171	11.171	(1.002)	228	471063	5.00000	4.8	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
27 Chrysene (continued)									
11.171	11.171	(1.002)	226	134837			0.00- 58.50	28.62	

30 Benzo[b]fluoranthene CAS #: 205-99-2									
12.124	12.124	(0.973)	252	469819	5.00000	5.6	80.00- 120.00	100.00	
12.124	12.124	(0.973)	253	101077			0.00- 51.26	21.51	

31 Benzo[k]fluoranthene CAS #: 207-08-9									
12.146	12.146	(0.975)	252	510576	5.00000	4.8	80.00- 120.00	100.00	
12.146	12.146	(0.975)	253	113334			0.00- 53.27	22.20	

32 Benzo[a]pyrene CAS #: 50-32-8									
12.406	12.402	(0.996)	252	417991	5.00000	5.3	80.00- 120.00	100.00(M)	
12.406	12.406	(0.996)	253	90576			0.00- 53.07	21.67	

* 33 Perylene-d12 CAS #: 1520-96-3									
12.458	12.454	(1.000)	264	62062	0.80000		80.00- 120.00	100.00	
12.458	12.454	(1.000)	260	13820			0.00- 52.55	22.27	

34 Indeno[1,2,3-cd]pyrene CAS #: 193-39-5									
13.457	13.454	(1.080)	276	525078	5.00000	5.4	80.00- 120.00	100.00	
13.457	13.454	(1.080)	138	102440			0.00- 49.54	19.51	

35 Dibenz[a,h]anthracene CAS #: 53-70-3									
13.465	13.465	(1.081)	278	428536	5.00000	5.5	80.00- 120.00	100.00	
13.461	13.461	(1.081)	139	53206			0.00- 43.05	12.42	

36 Benzo[g,h,i]perylene CAS #: 191-24-2									
13.737	13.737	(1.103)	276	451148	5.00000	5.2	80.00- 120.00	100.00	
13.737	13.733	(1.103)	138	73384			0.00- 46.66	16.27	

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMCAL9.D

Page 4

Date : 07-MAY-2012 11:13

Client ID: SIMCAL9

Instrument: smsd01.i

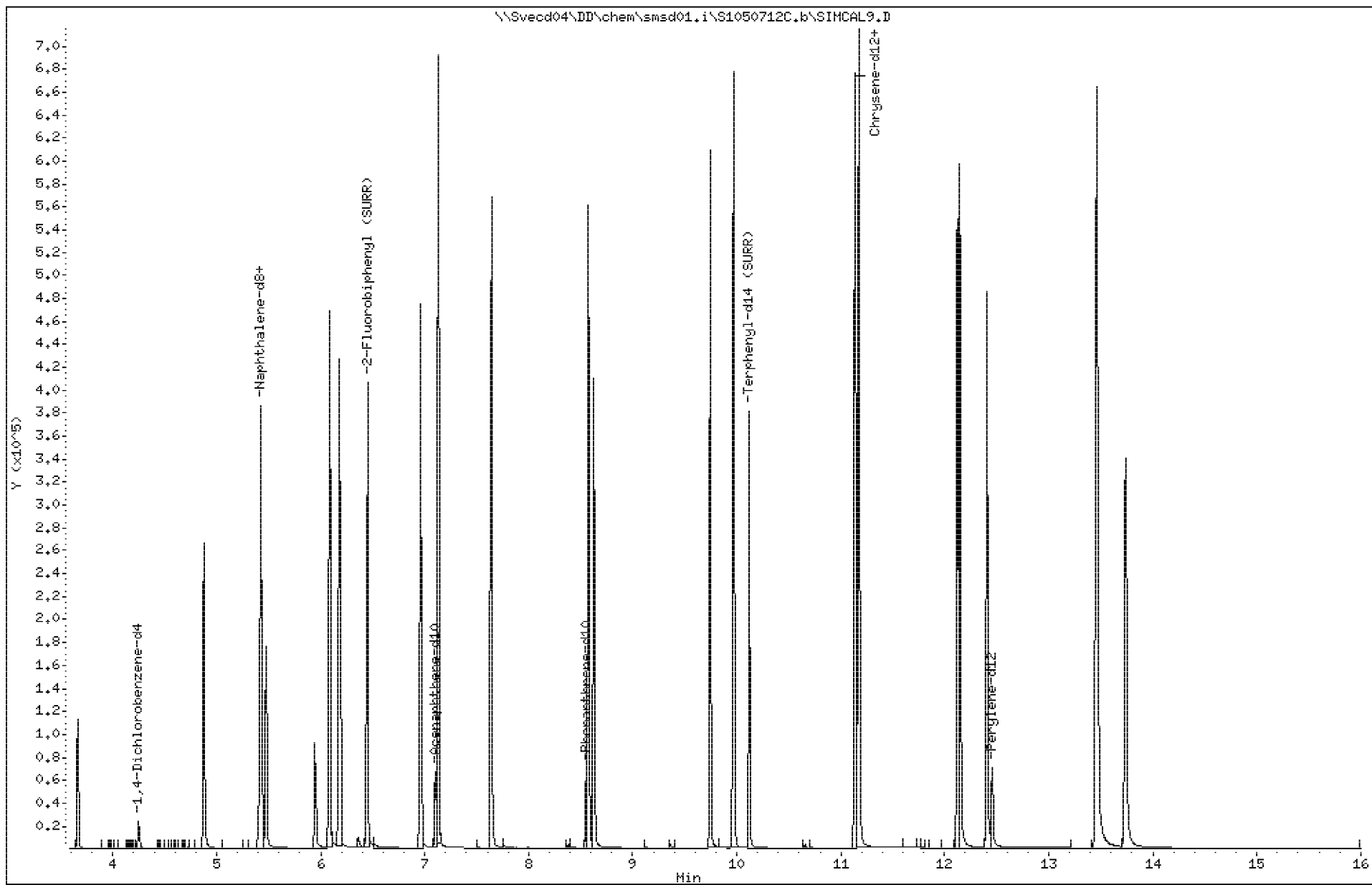
Sample Info: 45395

Purge Volume: 1000.0

Operator:

Column phase: HPMS-5

Column diameter: 0.25



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMCAL10.D
 Lab Smp Id: 45394 Client Smp ID: SIMCAL10
 Inj Date : 07-MAY-2012 11:37 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : 45394
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMBCSTR.m
 Meth Date : 08-May-2012 11:12 smsd01.i Quant Type: ISTD
 Cal Date : 10-APR-2012 09:54 Cal File: SIMCAL6.D
 Als bottle: 10 Calibration Sample, Level: 10
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.253	4.253	(1.000)	152	14552	0.80000		80.00- 120.00	100.00	
4.253	4.253	(1.000)	115	8726			32.50- 92.50	59.96	

* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406	(1.000)	136	51242	0.80000		80.00- 120.00	100.00	
5.406	5.406	(1.000)	68	2029			0.00- 34.01	3.96	

6 Naphthalene CAS #: 91-20-3									
5.429	5.429	(1.004)	128	665235	10.0000	9.6	80.00- 120.00	100.00	
5.429	5.429	(1.004)	129	73912			0.00- 40.52	11.11	

8 2-Methylnaphthalene CAS #: 91-57-6									
6.082	6.093	(1.125)	142	463804	10.0000	10.4	80.00- 120.00	100.00 (AM)	
6.082	6.082	(1.125)	141	382718			56.36- 116.36	82.52	

9 1-Methylnaphthalene CAS #: 90-12-0									
6.177	6.177	(1.143)	142	437346	10.0000	9.5	80.00- 120.00	100.00 (M)	
6.177	6.177	(1.143)	141	375060			49.28- 109.28	85.76	

\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.450	6.449	(0.908)	172	529656	10.0000	9.5	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 10 2-Fluorobiphenyl (SURR) (continued)									
6.450	6.449	(0.908)	171	181421			4.13- 64.13	34.25	

12 Acenaphthylene					CAS #: 208-96-8				
6.964	6.964	(0.980)	152	694939	10.0000	9.9	80.00- 120.00	100.00	
6.955	6.964	(0.979)	151	137603			0.00- 49.78	19.80	

* 13 Acenaphthene-d10					CAS #: 15067-26-2				
7.105	7.105	(1.000)	164	30985	0.80000		80.00- 120.00	100.00	
7.105	7.105	(1.000)	162	29033			64.70- 124.70	93.70	

14 Acenaphthene					CAS #: 83-32-9				
7.131	7.131	(1.004)	153	455102	10.0000	9.7	80.00- 120.00	100.00	
7.131	7.131	(1.004)	154	420064			60.47- 120.47	92.30	

16 Fluorene					CAS #: 86-73-7				
7.641	7.641	(1.076)	166	536080	10.0000	10.1	80.00- 120.00	100.00(A)	
7.641	7.641	(1.076)	165	507031			64.52- 124.52	94.58	

* 17 Phenanthrene-d10					CAS #: 1517-22-2				
8.555	8.555	(1.000)	188	58234	0.80000		80.00- 120.00	100.00	
8.549	8.549	(1.000)	94	3843			0.00- 36.97	6.60	

18 Phenanthrene					CAS #: 85-01-8				
8.575	8.575	(1.002)	178	773942	10.0000	9.8	80.00- 120.00	100.00	
8.575	8.575	(1.002)	179	120902			0.00- 45.15	15.62	

19 Anthracene					CAS #: 120-12-7				
8.627	8.626	(1.008)	178	612182	10.0000	10.2	80.00- 120.00	100.00(A)	
8.627	8.626	(1.008)	179	94281			0.00- 45.16	15.40	

21 Fluoranthene					CAS #: 206-44-0				
9.748	9.748	(1.139)	202	917116	10.0000	9.9	80.00- 120.00	100.00	
9.741	9.741	(1.139)	101	71518			0.00- 38.08	7.80	

22 Pyrene					CAS #: 129-00-0				
9.967	9.967	(0.894)	202	913675	10.0000	9.2	80.00- 120.00	100.00	
9.967	9.967	(0.894)	200	191907			0.00- 50.73	21.00	

\$ 23 Terphenyl-d14 (SURR)					CAS #: 1718-51-0				
10.118	10.124	(0.908)	244	608200	10.0000	9.6	80.00- 120.00	100.00	
10.118	10.118	(0.908)	122	52059			0.00- 38.43	8.56	

25 Benzo[a]anthracene					CAS #: 56-55-3				
11.134	11.140	(0.999)	228	856830	10.0000	10.1	80.00- 120.00	100.00(A)	
11.140	11.140	(0.999)	229	171208			0.00- 50.51	19.98	

* 26 Chrysene-d12					CAS #: 1719-03-5				
11.146	11.146	(1.000)	240	68173	0.80000		80.00- 120.00	100.00	
11.140	11.140	(1.000)	120	5175			0.00- 37.78	7.59	

27 Chrysene					CAS #: 218-01-9				
11.172	11.171	(1.002)	228	910863	10.0000	9.5	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
27 Chrysene (continued)									
11.172	11.171	(1.002)	226	263008			0.00- 58.50	28.87	

30 Benzo[b]fluoranthene CAS #: 205-99-2									
12.128	12.124	(0.973)	252	942385	10.0000	11.2	80.00- 120.00	100.00(A)	
12.128	12.124	(0.973)	253	205739			0.00- 51.26	21.83	

31 Benzo[k]fluoranthene CAS #: 207-08-9									
12.150	12.146	(0.975)	252	970392	10.0000	9.2	80.00- 120.00	100.00	
12.150	12.146	(0.975)	253	219170			0.00- 53.27	22.59	

32 Benzo[a]pyrene CAS #: 50-32-8									
12.410	12.402	(0.996)	252	831792	10.0000	10.5	80.00- 120.00	100.00(AM)	
12.410	12.406	(0.996)	253	180602			0.00- 53.07	21.71	

* 33 Perylene-d12 CAS #: 1520-96-3									
12.462	12.454	(1.000)	264	61999	0.80000		80.00- 120.00	100.00	
12.458	12.454	(1.000)	260	13718			0.00- 52.55	22.13	

34 Indeno[1,2,3-cd]pyrene CAS #: 193-39-5									
13.461	13.454	(1.080)	276	1036701	10.0000	10.6	80.00- 120.00	100.00(A)	
13.461	13.454	(1.080)	138	203023			0.00- 49.54	19.58	

35 Dibenz[a,h]anthracene CAS #: 53-70-3									
13.469	13.465	(1.081)	278	845621	10.0000	10.8	80.00- 120.00	100.00(A)	
13.469	13.461	(1.081)	139	106072			0.00- 43.05	12.54	

36 Benzo[g,h,i]perylene CAS #: 191-24-2									
13.745	13.737	(1.103)	276	883463	10.0000	10.3	80.00- 120.00	100.00(A)	
13.741	13.733	(1.103)	138	142281			0.00- 46.66	16.10	

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMCAL10.D

Page 4

Date : 07-MAY-2012 11:37

Client ID: SIMCAL10

Instrument: smsd01.i

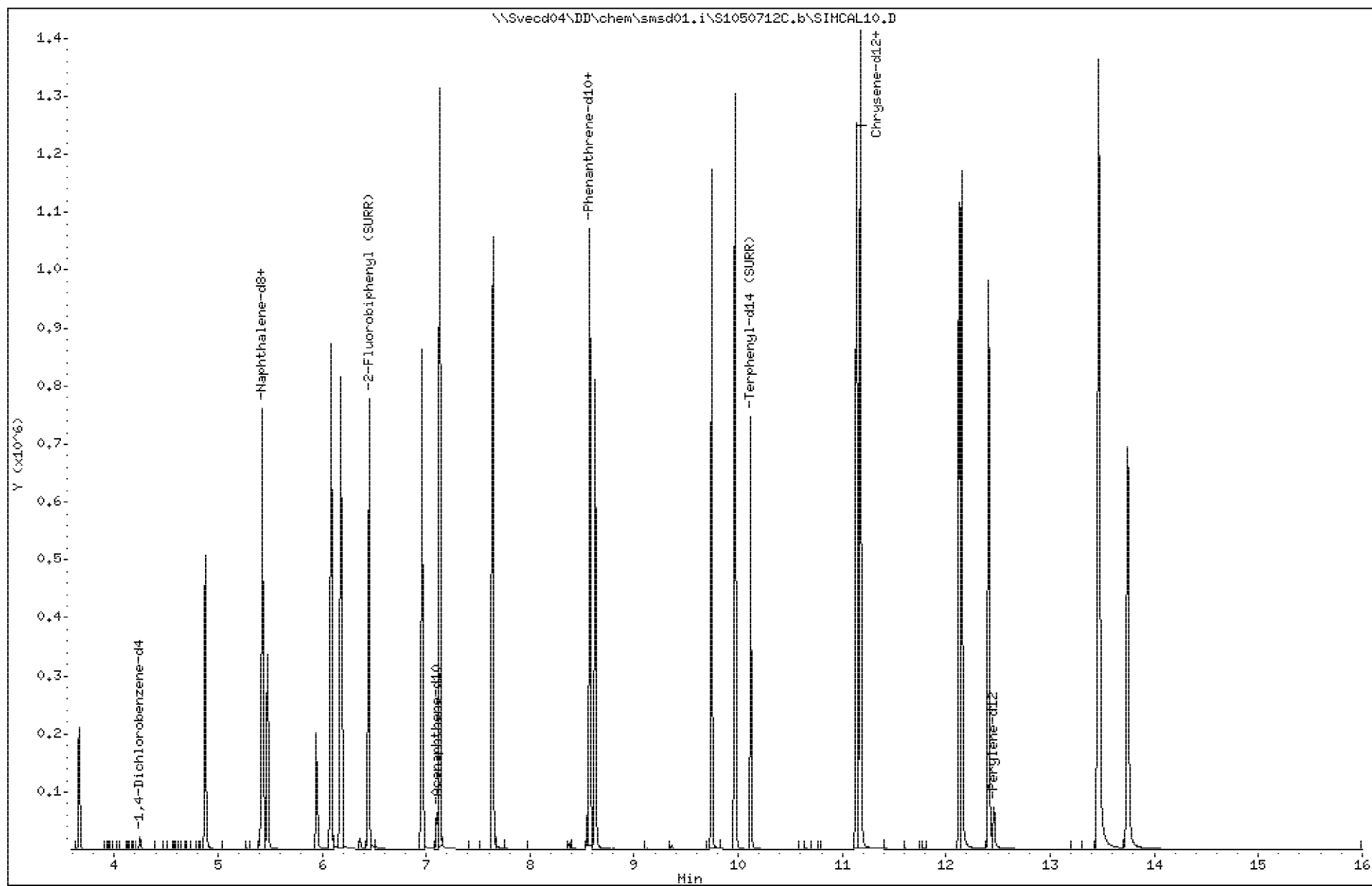
Sample Info: 45394

Purge Volume: 1000.0

Operator:

Column phase: HPMS-5

Column diameter: 0.25



3505843

PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMSEC.D
 Lab Smp Id: 44830 Client Smp ID: SIMSEC
 Inj Date : 07-MAY-2012 12:01 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : 44830
 Misc Info :
 Comment :
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 Meth Date : 08-May-2012 11:12 smsd01.i Quant Type: ISTD
 Cal Date : 07-MAY-2012 11:37 Cal File: SIMCAL10.D
 Als bottle: 11 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.253	4.253	(1.000)	152	18572	0.80000		80.00- 120.00	100.00	
4.253	4.253	(1.000)	115	11305			32.50- 92.50	60.87	
* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406	(1.000)	136	64817	0.80000		80.00- 120.00	100.00	
5.406	5.406	(1.000)	68	2524			0.00- 34.01	3.89	
6 Naphthalene CAS #: 91-20-3									
5.429	5.429	(1.004)	128	39290	0.50000	0.45	80.00- 120.00	100.00	
5.429	5.429	(1.004)	129	4251			0.00- 40.52	10.82	
8 2-Methylnaphthalene CAS #: 91-57-6									
6.082	6.093	(1.125)	142	25871	0.50000	0.46	80.00- 120.00	100.00(M)	
6.082	6.082	(1.125)	141	21771			56.36- 116.36	84.15	
9 1-Methylnaphthalene CAS #: 90-12-0									
6.177	6.177	(1.143)	142	24234	0.50000	0.42	80.00- 120.00	100.00(M)	
6.177	6.177	(1.143)	141	20060			49.28- 109.28	82.78	
\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.449	6.449	(0.908)	172	31022	0.50000	0.46	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 10 2-Fluorobiphenyl (SURR) (continued)									
6.449	6.449	(0.908)	171	10590			4.13- 64.13	34.14	

12 Acenaphthylene CAS #: 208-96-8									
6.964	6.964	(0.980)	152	38819	0.50000	0.45	80.00- 120.00	100.00	
6.964	6.964	(0.980)	151	7817			0.00- 49.78	20.14	

* 13 Acenaphthene-d10 CAS #: 15067-26-2									
7.105	7.105	(1.000)	164	37698	0.80000		80.00- 120.00	100.00	
7.105	7.105	(1.000)	162	35482			64.70- 124.70	94.12	

14 Acenaphthene CAS #: 83-32-9									
7.131	7.131	(1.004)	153	25549	0.50000	0.45	80.00- 120.00	100.00	
7.131	7.131	(1.004)	154	23045			60.47- 120.47	90.20	

16 Fluorene CAS #: 86-73-7									
7.641	7.641	(1.076)	166	30154	0.50000	0.47	80.00- 120.00	100.00	
7.641	7.641	(1.076)	165	28924			64.52- 124.52	95.92	

* 17 Phenanthrene-d10 CAS #: 1517-22-2									
8.555	8.555	(1.000)	188	70921	0.80000		80.00- 120.00	100.00	
8.549	8.549	(1.000)	94	4593			0.00- 36.97	6.48	

18 Phenanthrene CAS #: 85-01-8									
8.575	8.575	(1.002)	178	44216	0.50000	0.46	80.00- 120.00	100.00	
8.575	8.575	(1.002)	179	6650			0.00- 45.15	15.04	

19 Anthracene CAS #: 120-12-7									
8.626	8.626	(1.008)	178	42666	0.50000	0.58	80.00- 120.00	100.00	
8.626	8.626	(1.008)	179	6402			0.00- 45.16	15.00	

21 Fluoranthene CAS #: 206-44-0									
9.748	9.748	(1.139)	202	51655	0.50000	0.46	80.00- 120.00	100.00	
9.741	9.741	(1.139)	101	3875			0.00- 38.08	7.50	

22 Pyrene CAS #: 129-00-0									
9.967	9.967	(0.894)	202	56063	0.50000	0.47	80.00- 120.00	100.00	
9.967	9.967	(0.894)	200	11884			0.00- 50.73	21.20	

\$ 23 Terphenyl-d14 (SURR) CAS #: 1718-51-0									
10.118	10.124	(0.908)	244	36675	0.50000	0.48	80.00- 120.00	100.00	
10.118	10.118	(0.908)	122	2999			0.00- 38.43	8.18	

25 Benzo[a]anthracene CAS #: 56-55-3									
11.134	11.140	(0.999)	228	47737	0.50000	0.47	80.00- 120.00	100.00	
11.140	11.140	(0.999)	229	9307			0.00- 50.51	19.50	

* 26 Chrysene-d12 CAS #: 1719-03-5									
11.146	11.146	(1.000)	240	81845	0.80000		80.00- 120.00	100.00	
11.140	11.140	(1.000)	120	6000			0.00- 37.78	7.33	

27 Chrysene CAS #: 218-01-9									
11.172	11.171	(1.002)	228	51466	0.50000	0.45	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	====	=====	=====	=====	=====	=====	
27 Chrysene (continued)									
11.172	11.171	(1.002)	226	14890			0.00- 58.50	28.93	

30 Benzo[b]fluoranthene CAS #: 205-99-2									
12.124	12.124	(0.973)	252	48674	0.50000	0.47	80.00- 120.00	100.00	
12.124	12.124	(0.973)	253	10304			0.00- 51.26	21.17	

31 Benzo[k]fluoranthene CAS #: 207-08-9									
12.146	12.146	(0.975)	252	60432	0.50000	0.46	80.00- 120.00	100.00	
12.146	12.146	(0.975)	253	13650			0.00- 53.27	22.59	

32 Benzo[a]pyrene CAS #: 50-32-8									
12.406	12.402	(0.996)	252	46131	0.50000	0.47	80.00- 120.00	100.00(M)	
12.406	12.406	(0.996)	253	10404			0.00- 53.07	22.55	

* 33 Perylene-d12 CAS #: 1520-96-3									
12.458	12.454	(1.000)	264	76313	0.80000		80.00- 120.00	100.00	
12.458	12.454	(1.000)	260	16961			0.00- 52.55	22.23	

34 Indeno[1,2,3-cd]pyrene CAS #: 193-39-5									
13.457	13.454	(1.080)	276	56539	0.50000	0.47	80.00- 120.00	100.00	
13.457	13.454	(1.080)	138	11010			0.00- 49.54	19.47	

35 Dibenz[a,h]anthracene CAS #: 53-70-3									
13.465	13.465	(1.081)	278	44467	0.50000	0.46	80.00- 120.00	100.00	
13.465	13.461	(1.081)	139	5593			0.00- 43.05	12.58	

36 Benzo[g,h,i]perylene CAS #: 191-24-2									
13.741	13.737	(1.103)	276	48483	0.50000	0.46	80.00- 120.00	100.00	
13.737	13.733	(1.103)	138	7953			0.00- 46.66	16.40	

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd01.i\S1050712C.b\SIMSEC.D

Page 4

Date : 07-MAY-2012 12:01

Client ID: SIMSEC

Instrument: smsd01.i

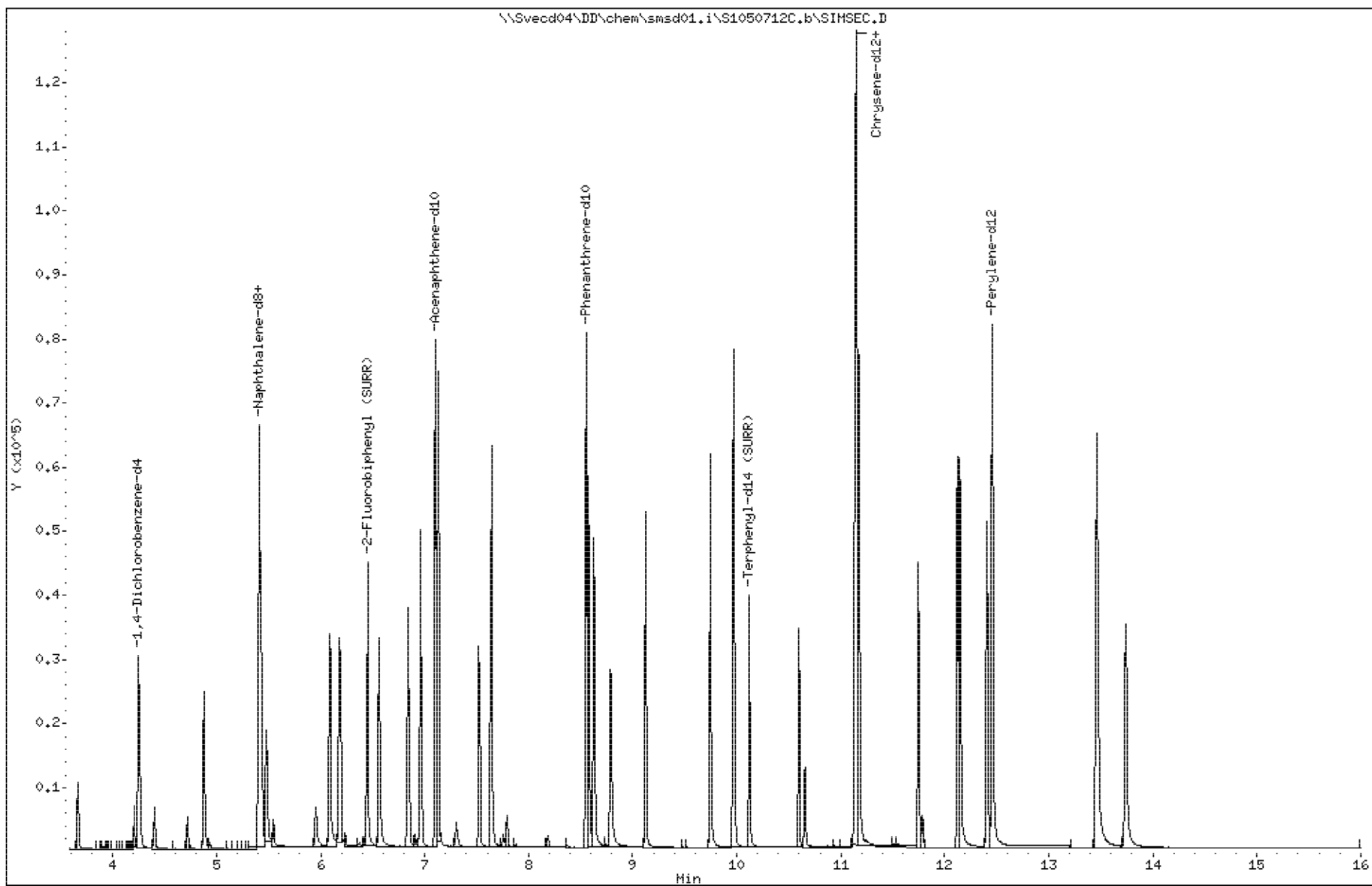
Sample Info: 44830

Purge Volume: 1000.0

Operator:

Column phase: HPMS-5

Column diameter: 0.25



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050712.b\DFTPP4.D
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 Inj Date : 07-MAY-2012 13:03 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : 45777
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd01.i\S1050712.b\DoDTUN.m
 Meth Date : 08-May-2012 11:35 mjacobs Quant Type: ISTD
 Cal Date : 23-MAR-2009 02:58 Cal File: AP9CAL1.D
 Als bottle: 100 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: SVECD04

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE (ug/L)		TARGET RANGE	RATIO	CAS #:	
				ON-COL	FINAL				
								5074-71-5	
1	dftpp								
7.322	7.610 (0.000)	198	338688			0.00- 100.00	100.00		
7.322	7.610 (0.000)	51	113512			10.00- 80.00	33.52		
7.322	7.610 (0.000)	68	326			0.00- 2.00	0.26		
7.322	7.610 (0.000)	69	127576			0.00- 0.00	37.67		
7.322	7.610 (0.000)	70	808			0.00- 2.00	0.63		
7.322	7.610 (0.000)	127	161728			10.00- 80.00	47.75		
7.322	7.610 (0.000)	197	0	0.0	0.0	0.00- 2.00	0.00		
7.322	7.610 (0.000)	199	22832			5.00- 9.00	6.74		
7.322	7.610 (0.000)	275	106592			10.00- 60.00	31.47		
7.322	7.610 (0.000)	365	16266			1.00- 0.00	4.80		
7.322	7.610 (0.000)	441	40352			0.01- 24.00	15.50		
7.322	7.610 (0.000)	442	260352			50.00- 0.00	76.87		
7.322	7.610 (0.000)	443	48712			15.00- 24.00	18.71		

Data File: \\Svecd04\DD\chem\smsd01.i\S1050712,b\DFTPP4.D

Date : 07-MAY-2012 13:03

Client ID: DFTPP4

Instrument: smsd01.i

Sample Info: 45777

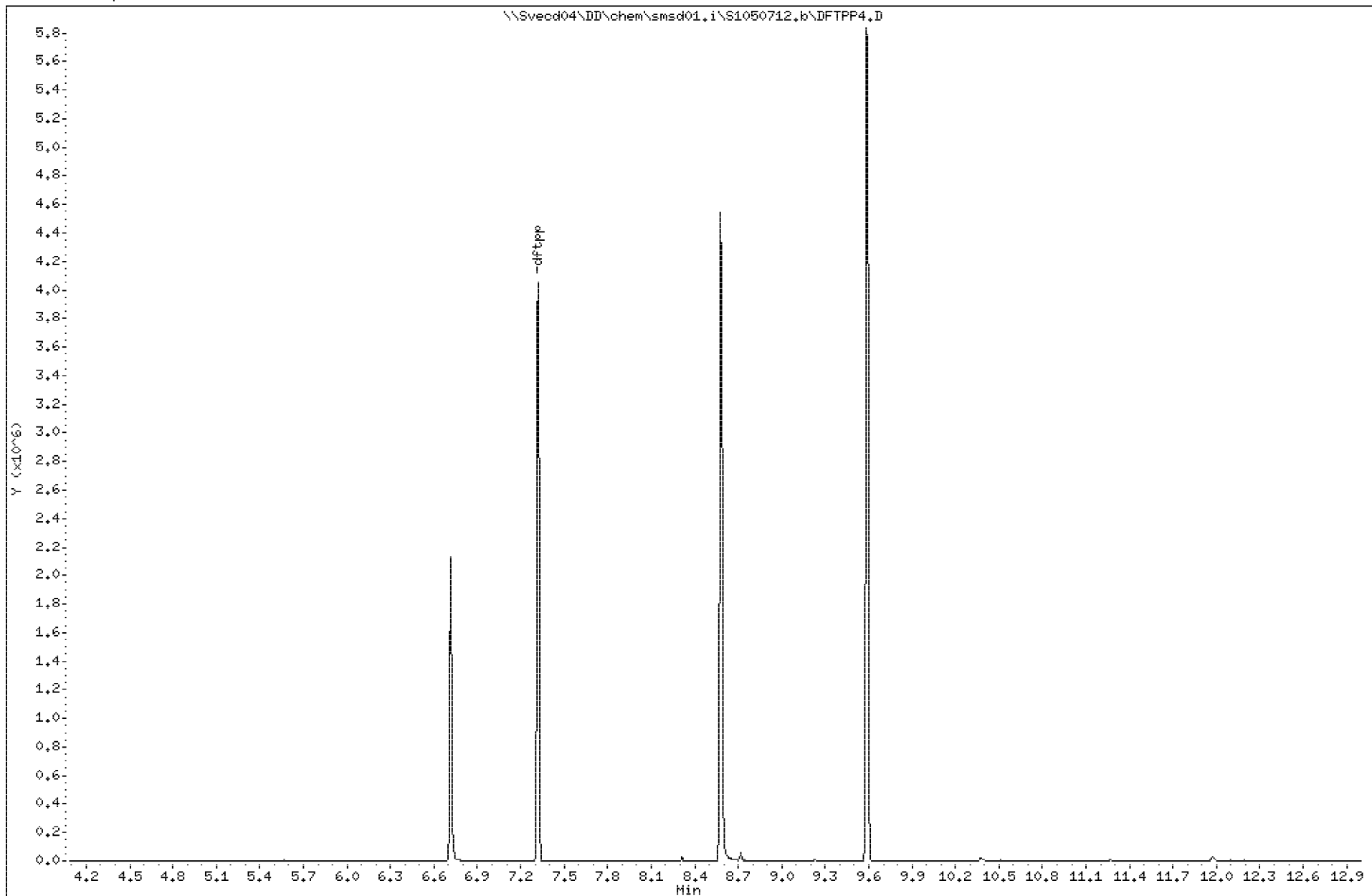
Operator:

Volume Injected (uL): 1.0

Column diameter: 2.00

Column phase:

\\Svecd04\DD\chem\smsd01.i\S1050712,b\DFTPP4.D



Data File: \\Svecd04\DD\chem\smsd01.i\S1050712.b\DFTPP4.D

Date : 07-MAY-2012 13:03

Client ID: DFTPP4

Instrument: smsd01.i

Sample Info: 45777

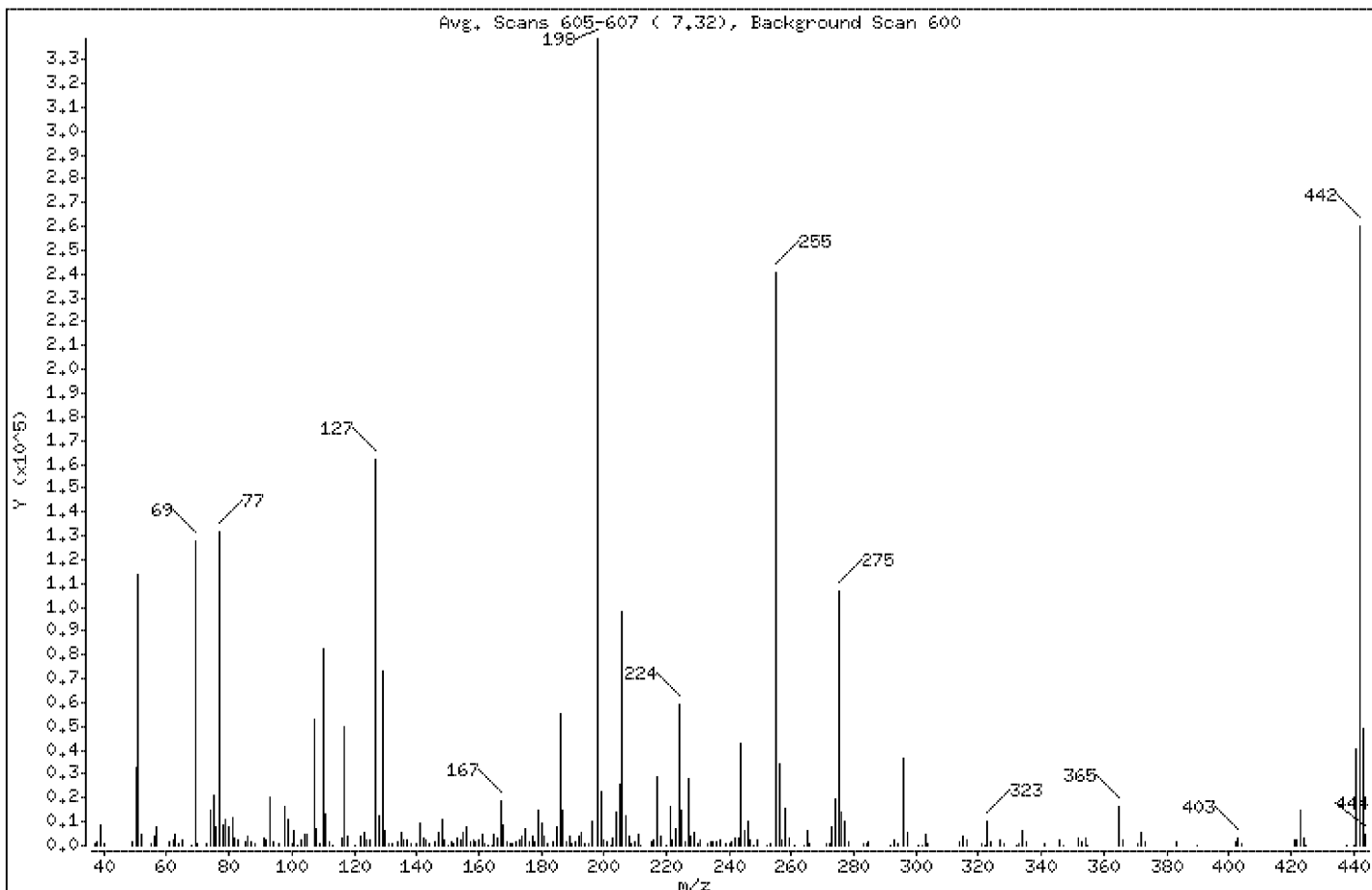
Volume Injected (uL): 1.0

Operator:

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	33.52
68	Less than 2.00% of mass 69	0.10 (0.26)
69	Mass 69 relative abundance	37.67
70	Less than 2.00% of mass 69	0.24 (0.63)
127	10.00 - 80.00% of mass 198	47.75
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.74
275	10.00 - 60.00% of mass 198	31.47
365	Greater than 1.00% of mass 198	4.80
441	0.01 - 24.00% of mass 442	11.91 (15.50)
442	Greater than 50.00% of mass 198	76.87
443	15.00 - 24.00% of mass 442	14.38 (18.71)

Data File: \\Svecd04\DD\chem\smsd01.i\S1050712.b\DFTPP4.D

Date : 07-MAY-2012 13:03

Client ID: DFTPP4

Instrument: smsd01.i

Sample Info: 45777

Volume Injected (uL): 1.0

Operator:

Column phase:

Column diameter: 2.00

Data File: DFTPP4.D
Spectrum: Avg. Scans 605-607 (7.32), Background Scan 600
Location of Maximum: 198.00
Number of points: 247

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	511	127.00	161728	193.00	5105	271.00	483
38.00	1779	128.00	12404	194.00	1025	272.00	804
39.00	8902	129.00	72848	195.00	520	273.00	7419
40.00	665	130.00	6110	196.00	10492	274.00	19192
49.00	1321	131.00	980	198.00	338688	275.00	106592
50.00	32568	132.00	527	199.00	22832	276.00	13705
51.00	113512	134.00	1928	200.00	2027	277.00	10009
52.00	5011	135.00	5773	201.00	1273	278.00	1661
55.00	648	136.00	2260	202.00	309	283.00	1013
56.00	3606	137.00	2721	203.00	3261	284.00	635
57.00	7702	138.00	508	204.00	14275	285.00	1780
61.00	1617	140.00	778	205.00	25656	292.00	309
62.00	2094	141.00	9273	206.00	98016	293.00	2049
63.00	4797	142.00	3257	207.00	12228	294.00	539
64.00	641	143.00	2322	208.00	3719	296.00	36744
65.00	2034	144.00	630	209.00	952	297.00	5217
68.00	326	146.00	1813	210.00	1833	301.00	266
69.00	127576	147.00	5256	211.00	4539	302.00	217
70.00	808	148.00	11247	212.00	235	303.00	4360
73.00	1126	149.00	2079	215.00	1251	304.00	829
74.00	14587	150.00	260	216.00	2332	314.00	1673
75.00	20976	151.00	1219	217.00	29112	315.00	3552
76.00	7866	152.00	556	218.00	3734	316.00	1978
77.00	131712	153.00	3387	220.00	307	321.00	789
78.00	8812	154.00	2216	221.00	16223	322.00	266
79.00	11269	155.00	5637	222.00	2312	323.00	9812
80.00	7965	156.00	7648	223.00	6667	324.00	1942
81.00	11359	157.00	1674	224.00	59448	327.00	2310
82.00	2840	158.00	2116	225.00	14455	328.00	683
83.00	2203	159.00	1452	226.00	1823	332.00	382
85.00	1702	160.00	2712	227.00	28312	333.00	781
86.00	3841	161.00	4455	228.00	3829	334.00	6244
87.00	1470	162.00	1071	229.00	5411	335.00	1725
88.00	480	163.00	222	230.00	583	341.00	1162
91.00	2751	164.00	250	231.00	1963	346.00	2396

Data File: \\Svecd04\DD\chem\smsd01.i\S1050712.b\DFTPP4.D

Date : 07-MAY-2012 13:03

Client ID: DFTPP4

Instrument: smsd01.i

Sample Info: 45777

Volume Injected (uL): 1.0

Operator:

Column phase:

Column diameter: 2.00

Data File: DFTPP4.D
Spectrum: Avg. Scans 605-607 (7.32), Background Scan 600
Location of Maximum: 198.00
Number of points: 247

m/z	Y	m/z	Y	m/z	Y	m/z	Y
92.00	2715	165.00	4643	233.00	523	347.00	372
93.00	20616	166.00	2937	234.00	1738	352.00	3339
94.00	1205	167.00	19056	235.00	1694	353.00	1653
96.00	644	168.00	8945	236.00	1220	354.00	2959
98.00	16568	169.00	1608	237.00	2305	355.00	319
99.00	10913	170.00	711	239.00	1113	365.00	16266
100.00	909	171.00	747	240.00	682	366.00	2140
101.00	5885	172.00	1786	241.00	1506	371.00	743
102.00	273	173.00	2432	242.00	3353	372.00	5126
103.00	1955	174.00	4039	243.00	3493	373.00	1424
104.00	4457	175.00	7380	244.00	43152	383.00	1330
105.00	4403	176.00	1786	245.00	5840	390.00	218
107.00	53288	177.00	3973	246.00	10437	402.00	1819
108.00	6976	178.00	1408	247.00	2133	403.00	2815
109.00	827	179.00	14516	248.00	295	404.00	1039
110.00	82832	180.00	9406	249.00	1960	421.00	2301
111.00	13188	181.00	4176	252.00	268	422.00	2047
112.00	1610	182.00	569	253.00	964	423.00	14993
113.00	344	184.00	1343	255.00	240448	424.00	3405
116.00	3185	185.00	7621	256.00	34136	425.00	281
117.00	49744	186.00	55368	257.00	2458	438.00	220
118.00	3528	187.00	14943	258.00	15848	440.00	243
120.00	236	188.00	1321	259.00	2744	441.00	40352
122.00	3692	189.00	3616	261.00	216	442.00	260352
123.00	5669	190.00	614	264.00	217	443.00	48712
124.00	2459	191.00	1765	265.00	6279	444.00	4567
125.00	2395	192.00	4249	266.00	648		

DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 05/07/2012 13:21

Datafile Analyzed: //Svecd04/DD/chem/smsd01.i/S1050712.b/DFTPP4.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 05/08/2012 11:41

Datafile Analyzed: //Svecd04/DD/chem/smsd01.i/S1050712.b/DFTPP4.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 05/09/2012 11:50

Datafile Analyzed: //Svecd04/DD/chem/smsd01.i/S1050712.b/DFTPP4.D

PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050712.b\SIMCCV1.D
 Lab Smp Id: 46068 Client Smp ID: SIMCCV1
 Inj Date : 07-MAY-2012 13:24 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : 46068
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd01.i\S1050712.b\SIMBCSTR.m
 Meth Date : 08-May-2012 11:36 mjacobs Quant Type: ISTD
 Cal Date : 07-MAY-2012 10:01 Cal File: SIMCAL6.D
 Als bottle: 99 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.253	4.253	(1.000)	152	12585	0.80000		80.00- 120.00	100.00	
4.253	4.253	(1.000)	115	7865			32.50- 92.50	62.50	

* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406	(1.000)	136	45256	0.80000		80.00- 120.00	100.00	
5.406	5.406	(1.000)	68	1691			0.00- 34.01	3.74	

6 Naphthalene CAS #: 91-20-3									
5.429	5.429	(1.004)	128	32542	0.50000	0.53	80.00- 120.00	100.00	
5.429	5.429	(1.004)	129	3407			0.00- 40.52	10.47	

8 2-Methylnaphthalene CAS #: 91-57-6									
6.093	6.093	(1.127)	142	21083	0.50000	0.54	80.00- 120.00	100.00	
6.082	6.093	(1.125)	141	18187			56.36- 116.36	86.26	

9 1-Methylnaphthalene CAS #: 90-12-0									
6.177	6.177	(1.143)	142	21396	0.50000	0.53	80.00- 120.00	100.00(M)	
6.177	6.177	(1.143)	141	17416			49.28- 109.28	81.40	

\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.450	6.449	(0.908)	172	27046	0.50000	0.55	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	====	=====	=====	=====	=====	=====	
\$ 10 2-Fluorobiphenyl (SURR) (continued)									
6.450	6.449	(0.908)	171	9343			4.13- 64.13	34.54	

12 Acenaphthylene CAS #: 208-96-8									
6.964	6.964	(0.980)	152	32944	0.50000	0.53	80.00- 120.00	100.00	
6.964	6.964	(0.980)	151	6518			0.00- 49.78	19.79	

* 13 Acenaphthene-d10 CAS #: 15067-26-2									
7.105	7.105	(1.000)	164	27199	0.80000		80.00- 120.00	100.00	
7.105	7.105	(1.000)	162	25605			64.70- 124.70	94.14	

14 Acenaphthene CAS #: 83-32-9									
7.131	7.131	(1.004)	153	21747	0.50000	0.53	80.00- 120.00	100.00	
7.131	7.131	(1.004)	154	19647			60.47- 120.47	90.34	

16 Fluorene CAS #: 86-73-7									
7.641	7.641	(1.076)	166	25103	0.50000	0.54	80.00- 120.00	100.00	
7.641	7.641	(1.076)	165	23839			64.52- 124.52	94.96	

* 17 Phenanthrene-d10 CAS #: 1517-22-2									
8.555	8.555	(1.000)	188	50191	0.80000		80.00- 120.00	100.00	
8.549	8.555	(1.000)	94	3056			0.00- 36.97	6.09	

18 Phenanthrene CAS #: 85-01-8									
8.575	8.575	(1.002)	178	36677	0.50000	0.54	80.00- 120.00	100.00	
8.575	8.575	(1.002)	179	5572			0.00- 45.15	15.19	

19 Anthracene CAS #: 120-12-7									
8.626	8.626	(1.008)	178	28171	0.50000	0.54	80.00- 120.00	100.00	
8.626	8.626	(1.008)	179	4148			0.00- 45.16	14.72	

21 Fluoranthene CAS #: 206-44-0									
9.748	9.748	(1.139)	202	42483	0.50000	0.53	80.00- 120.00	100.00	
9.741	9.748	(1.139)	101	3006			0.00- 38.08	7.08	

22 Pyrene CAS #: 129-00-0									
9.967	9.967	(0.894)	202	43122	0.50000	0.50	80.00- 120.00	100.00	
9.967	9.967	(0.894)	200	8955			0.00- 50.73	20.77	

\$ 23 Terphenyl-d14 (SURR) CAS #: 1718-51-0									
10.124	10.124	(0.908)	244	29270	0.50000	0.54	80.00- 120.00	100.00	
10.118	10.124	(0.908)	122	2286			0.00- 38.43	7.81	

25 Benzo[a]anthracene CAS #: 56-55-3									
11.140	11.140	(0.999)	228	36672	0.50000	0.50	80.00- 120.00	100.00	
11.140	11.140	(0.999)	229	7461			0.00- 50.51	20.35	

* 26 Chrysene-d12 CAS #: 1719-03-5									
11.146	11.146	(1.000)	240	58667	0.80000		80.00- 120.00	100.00	
11.140	11.146	(1.000)	120	3960			0.00- 37.78	6.75	

27 Chrysene CAS #: 218-01-9									
11.172	11.171	(1.002)	228	44158	0.50000	0.54	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
27 Chrysene (continued)									
11.172	11.171	(1.002)	226	12633			0.00- 58.50	28.61	

30 Benzo[b]fluoranthene CAS #: 205-99-2									
12.124	12.124	(0.973)	252	38154	0.50000	0.52	80.00- 120.00	100.00	
12.128	12.124	(0.973)	253	8952			0.00- 51.26	23.46	

31 Benzo[k]fluoranthene CAS #: 207-08-9									
12.146	12.146	(0.975)	252	51603	0.50000	0.56	80.00- 120.00	100.00	
12.150	12.146	(0.975)	253	10310			0.00- 53.27	19.98	

32 Benzo[a]pyrene CAS #: 50-32-8									
12.410	12.402	(0.996)	252	36584	0.50000	0.53	80.00- 120.00	100.00(M)	
12.410	12.402	(0.996)	253	7766			0.00- 53.07	21.23	

* 33 Perylene-d12 CAS #: 1520-96-3									
12.462	12.454	(1.000)	264	54367	0.80000		80.00- 120.00	100.00	
12.458	12.454	(1.000)	260	12167			0.00- 52.55	22.38	

34 Indeno[1,2,3-cd]pyrene CAS #: 193-39-5									
13.461	13.454	(1.080)	276	47008	0.50000	0.55	80.00- 120.00	100.00	
13.461	13.454	(1.080)	138	8391			0.00- 49.54	17.85	

35 Dibenz[a,h]anthracene CAS #: 53-70-3									
13.469	13.465	(1.081)	278	38101	0.50000	0.56	80.00- 120.00	100.00	
13.469	13.465	(1.081)	139	4353			0.00- 43.05	11.42	

36 Benzo[g,h,i]perylene CAS #: 191-24-2									
13.741	13.737	(1.103)	276	40372	0.50000	0.53	80.00- 120.00	100.00	
13.741	13.737	(1.103)	138	6024			0.00- 46.66	14.92	

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd01.i\S1050712.b\SIMCCV1.D

Page 4

Date : 07-MAY-2012 13:24

Client ID: SIMCCV1

Instrument: smsd01.i

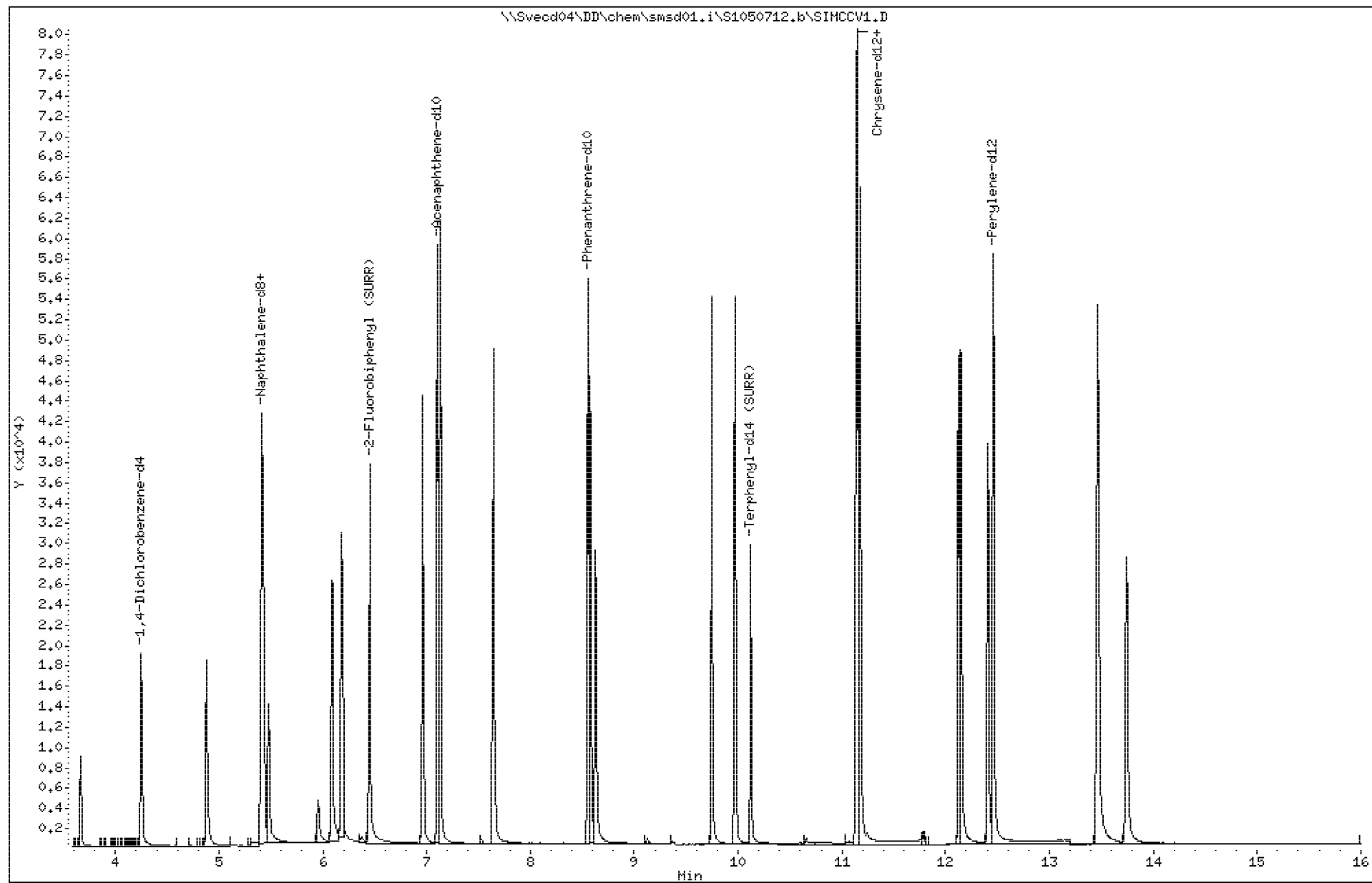
Sample Info: 46068

Operator:

Purge Volume: 1000.0

Column phase: HPMS-5

Column diameter: 0.25



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050712.b\9311MB.D
 Lab Smp Id: 129055MB Client Smp ID: 129055MB
 Inj Date : 07-MAY-2012 13:48 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : SIM129055MB
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd01.i\S1050712.b\SIMBCSTR.m
 Meth Date : 08-May-2012 11:36 mjacobs Quant Type: ISTD
 Cal Date : 07-MAY-2012 10:01 Cal File: SIMCAL6.D
 Als bottle: 1 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Ws	20.210	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
				ON-COL	FINAL				
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/kg)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.254	4.253 (1.000)		152	12959	0.80000		80.00-	120.00	100.00
4.254	4.253 (1.000)		115	7808			32.50-	92.50	60.25

* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406 (1.000)		136	47062	0.80000		80.00-	120.00	100.00
5.406	5.406 (1.000)		68	1616			0.00-	34.01	3.43

\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.450	6.449 (0.908)		172	25828	0.49499	24.5	80.00-	120.00	100.00
6.450	6.449 (0.908)		171	8853			4.13-	64.13	34.28

* 13 Acenaphthene-d10 CAS #: 15067-26-2									
7.105	7.105 (1.000)		164	28890	0.80000		80.00-	120.00	100.00
7.105	7.105 (1.000)		162	27946			64.70-	124.70	96.73

* 17 Phenanthrene-d10 CAS #: 1517-22-2									
8.555	8.555 (1.000)		188	52923	0.80000		80.00-	120.00	100.00
8.549	8.555 (1.000)		94	3444			0.00-	36.97	6.51

\$ 23 Terphenyl-d14 (SURR) CAS #: 1718-51-0									
10.118	10.124 (0.908)		244	25246	0.44278	21.9	80.00-	120.00	100.00

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
====	=====	=====	====	=====	=====	=====	=====	=====	
\$ 23 Terphenyl-d14 (SURR) (continued)									
10.118	10.124	(0.908)	122	1999			0.00- 38.43	7.92	

* 26 Chrysene-d12 CAS #: 1719-03-5									
11.146	11.146	(1.000)	240	61338	0.80000		80.00- 120.00	100.00	
11.140	11.146	(1.000)	120	4237			0.00- 37.78	6.91	

* 33 Perylene-d12 CAS #: 1520-96-3									
12.458	12.454	(1.000)	264	58251	0.80000		80.00- 120.00	100.00	
12.458	12.454	(1.000)	260	13056			0.00- 52.55	22.41	

Data File: \\Svecd04\DD\chem\smsd01.i\S1050712.b\9311MB.D

Page 3

Date : 07-MAY-2012 13:48

Client ID: 129055MB

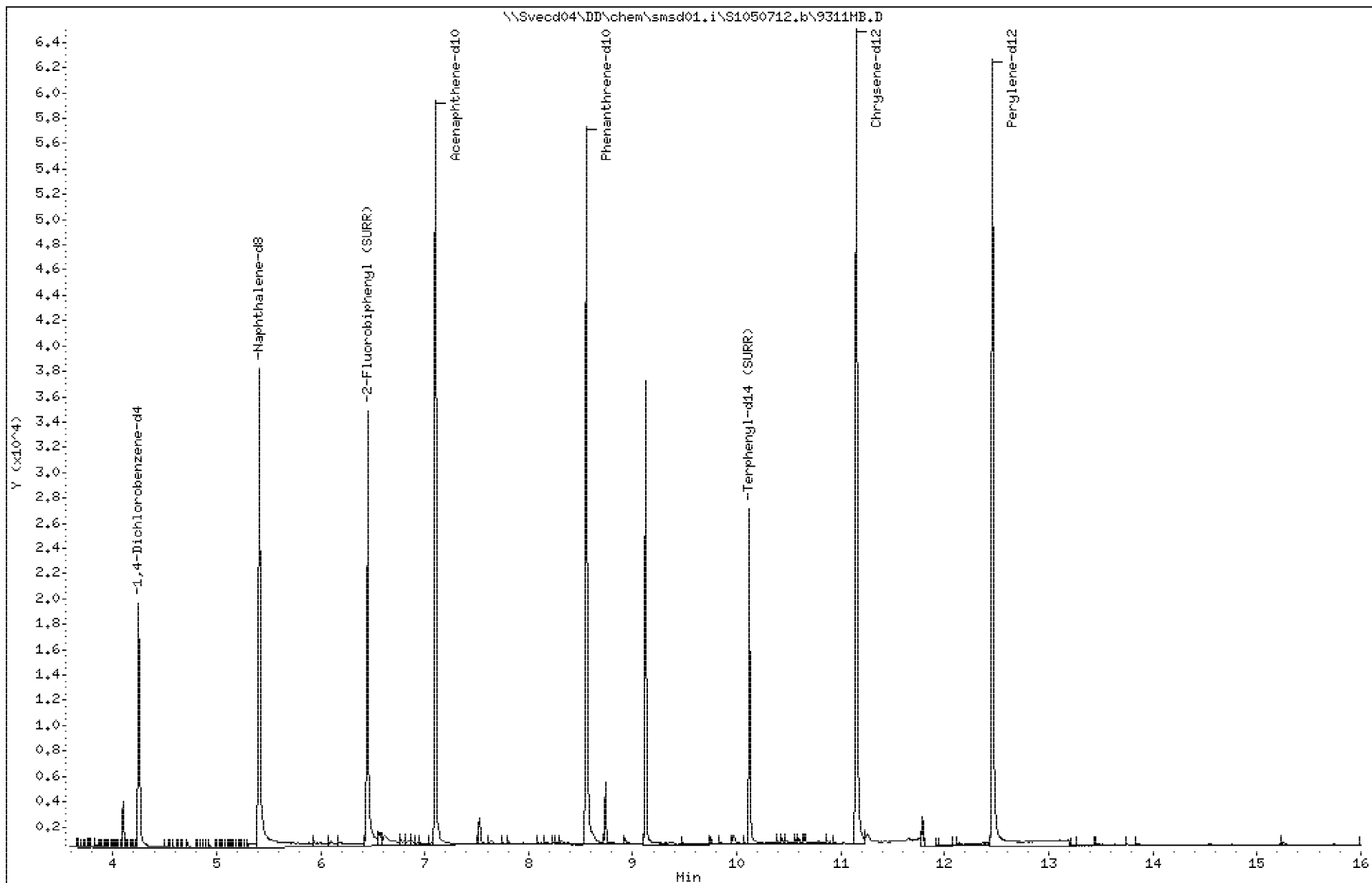
Instrument: smsd01.i

Sample Info: SIM129055MB

Operator:

Column phase: HPMS-5

Column diameter: 0.25



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050712.b\9311LCS.D
 Lab Smp Id: 129056LCS Client Smp ID: 129056LCS
 Inj Date : 07-MAY-2012 14:37 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : SIM129056LCS
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd01.i\S1050712.b\SIMBCSTR.m
 Meth Date : 08-May-2012 11:36 mjacobs Quant Type: ISTD
 Cal Date : 07-MAY-2012 10:01 Cal File: SIMCAL6.D
 Als bottle: 3 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Ws	20.340	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.253	4.253	(1.000)	152	13035	0.80000		80.00- 120.00	100.00	
4.253	4.253	(1.000)	115	8058			32.50- 92.50	61.82	
* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406	(1.000)	136	46903	0.80000		80.00- 120.00	100.00	
5.406	5.406	(1.000)	68	1690			0.00- 34.01	3.60	
6 Naphthalene CAS #: 91-20-3									
5.429	5.429	(1.004)	128	25798	0.40761	20.0	80.00- 120.00	100.00	
5.429	5.429	(1.004)	129	2694			0.00- 40.52	10.44	
8 2-Methylnaphthalene CAS #: 91-57-6									
6.082	6.093	(1.125)	142	17096	0.42043	20.7	80.00- 120.00	100.00	
6.082	6.093	(1.125)	141	14478			56.36- 116.36	84.69	
9 1-Methylnaphthalene CAS #: 90-12-0									
6.176	6.177	(1.143)	142	15462	0.36726	18.0	80.00- 120.00	100.00(M)	
6.176	6.177	(1.143)	141	12031			49.28- 109.28	77.81	
\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.449	6.449	(0.908)	172	21750	0.41793	20.5	80.00- 120.00	100.00	

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	
\$ 10 2-Fluorobiphenyl (SURR) (continued)									
6.449	6.449	(0.908)	171	7541			4.13- 64.13	34.67	

12 Acenaphthylene					CAS #: 208-96-8				
6.964	6.964	(0.980)	152	26194	0.40016	19.7	80.00- 120.00	100.00	
6.964	6.964	(0.980)	151	5160			0.00- 49.78	19.70	

* 13 Acenaphthene-d10					CAS #: 15067-26-2				
7.105	7.105	(1.000)	164	28814	0.80000		80.00- 120.00	100.00	
7.105	7.105	(1.000)	162	27228			64.70- 124.70	94.50	

14 Acenaphthene					CAS #: 83-32-9				
7.131	7.131	(1.004)	153	17846	0.41111	20.2	80.00- 120.00	100.00	
7.131	7.131	(1.004)	154	16151			60.47- 120.47	90.50	

16 Fluorene					CAS #: 86-73-7				
7.641	7.641	(1.076)	166	21371	0.43213	21.2	80.00- 120.00	100.00	
7.641	7.641	(1.076)	165	20283			64.52- 124.52	94.91	

* 17 Phenanthrene-d10					CAS #: 1517-22-2				
8.555	8.555	(1.000)	188	53088	0.80000		80.00- 120.00	100.00	
8.549	8.555	(1.000)	94	3314			0.00- 36.97	6.24	

18 Phenanthrene					CAS #: 85-01-8				
8.574	8.575	(1.002)	178	33426	0.46240	22.7	80.00- 120.00	100.00	
8.574	8.575	(1.002)	179	5090			0.00- 45.15	15.23	

19 Anthracene					CAS #: 120-12-7				
8.626	8.626	(1.008)	178	29469	0.53822	26.5	80.00- 120.00	100.00	
8.626	8.626	(1.008)	179	4135			0.00- 45.16	14.03	

21 Fluoranthene					CAS #: 206-44-0				
9.747	9.748	(1.139)	202	42154	0.50071	24.6	80.00- 120.00	100.00	
9.741	9.748	(1.139)	101	3038			0.00- 38.08	7.21	

22 Pyrene					CAS #: 129-00-0				
9.967	9.967	(0.894)	202	40944	0.46469	22.8	80.00- 120.00	100.00	
9.967	9.967	(0.894)	200	8534			0.00- 50.73	20.84	

\$ 23 Terphenyl-d14 (SURR)					CAS #: 1718-51-0				
10.118	10.124	(0.908)	244	22805	0.40526	19.9	80.00- 120.00	100.00	
10.118	10.124	(0.908)	122	1835			0.00- 38.43	8.05	

25 Benzo[a]anthracene					CAS #: 56-55-3				
11.134	11.140	(0.999)	228	35659	0.47553	23.4	80.00- 120.00	100.00	
11.134	11.140	(0.999)	229	7326			0.00- 50.51	20.54	

* 26 Chrysene-d12					CAS #: 1719-03-5				
11.146	11.146	(1.000)	240	60537	0.80000		80.00- 120.00	100.00	
11.140	11.146	(1.000)	120	4229			0.00- 37.78	6.99	

27 Chrysene					CAS #: 218-01-9				
11.171	11.171	(1.002)	228	39394	0.46459	22.8	80.00- 120.00	100.00	

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET	RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
27 Chrysene (continued)									
11.171	11.171	(1.002)	226	11442			0.00-	58.50	29.05

30 Benzo[b]fluoranthene CAS #: 205-99-2									
12.124	12.124	(0.973)	252	36522	0.47093	23.2	80.00-	120.00	100.00
12.124	12.124	(0.973)	253	7745			0.00-	51.26	21.21

31 Benzo[k]fluoranthene CAS #: 207-08-9									
12.146	12.146	(0.975)	252	46028	0.47426	23.3	80.00-	120.00	100.00
12.150	12.146	(0.975)	253	9615			0.00-	53.27	20.89

32 Benzo[a]pyrene CAS #: 50-32-8									
12.406	12.402	(0.996)	252	34158	0.46927	23.1	80.00-	120.00	100.00
12.409	12.402	(0.996)	253	7865			0.00-	53.07	23.03

* 33 Perylene-d12 CAS #: 1520-96-3									
12.458	12.454	(1.000)	264	56921	0.80000		80.00-	120.00	100.00
12.458	12.454	(1.000)	260	12903			0.00-	52.55	22.67

34 Indeno[1,2,3-cd]pyrene CAS #: 193-39-5									
13.461	13.454	(1.081)	276	43773	0.48691	23.9	80.00-	120.00	100.00
13.461	13.454	(1.081)	138	7916			0.00-	49.54	18.08

35 Dibenz[a,h]anthracene CAS #: 53-70-3									
13.468	13.465	(1.081)	278	33861	0.47314	23.3	80.00-	120.00	100.00
13.465	13.465	(1.081)	139	4337			0.00-	43.05	12.81

36 Benzo[g,h,i]perylene CAS #: 191-24-2									
13.741	13.737	(1.103)	276	36534	0.46242	22.7	80.00-	120.00	100.00
13.741	13.737	(1.103)	138	5601			0.00-	46.66	15.33

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd01.i\S1050712.b\9311LCS.D

Page 4

Date : 07-MAY-2012 14:37

Client ID: 129056LCS

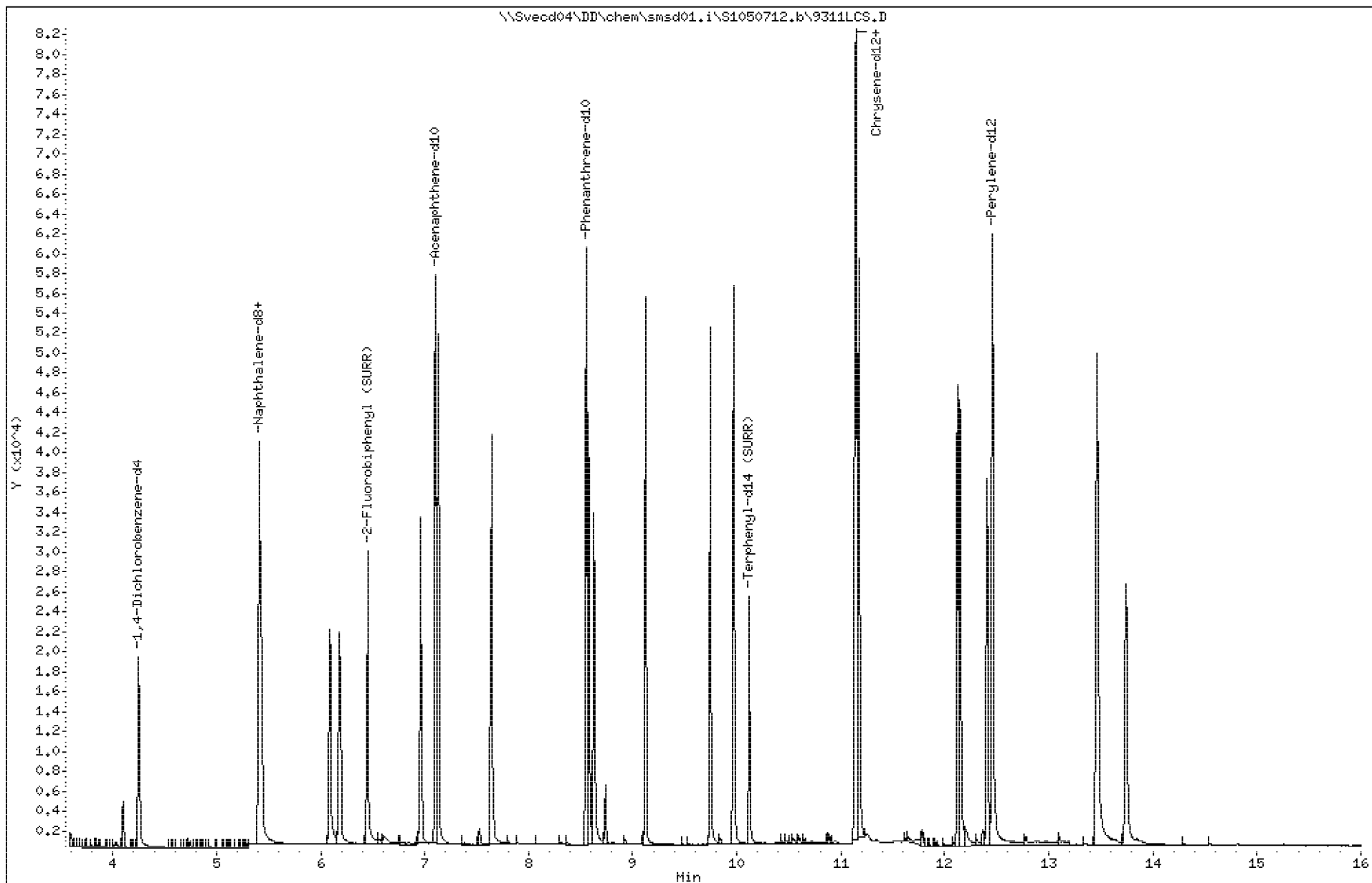
Instrument: smsd01.i

Sample Info: SIM129056LCS

Operator:

Column phase: HPMS-5

Column diameter: 0.25



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050812.b\DFTPP1.D
 Lab Smp Id: 45777 Client Smp ID: DFTPP1
 Inj Date : 08-MAY-2012 07:06 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : 45777
 Misc Info :
 Comment :
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 Meth Date : 09-May-2012 11:47 mjacobs Quant Type: ISTD
 Cal Date : 23-MAR-2009 02:58 Cal File: AP9CAL1.D
 Als bottle: 100 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: SVECD04

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS

RT	EXP RT	REL RT	MASS	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
1	dftpp							
							CAS #: 5074-71-5	
7.328	7.610 (0.000)	198	437696				0.00- 100.00	100.00
7.328	7.610 (0.000)	51	150016				10.00- 80.00	34.27
7.328	7.610 (0.000)	68	1004				0.00- 2.00	0.57
7.328	7.610 (0.000)	69	176512				0.00- 0.00	40.33
7.328	7.610 (0.000)	70	1005				0.00- 2.00	0.57
7.328	7.610 (0.000)	127	211264				10.00- 80.00	48.27
7.328	7.610 (0.000)	197	696				0.00- 2.00	0.16
7.328	7.610 (0.000)	199	29496				5.00- 9.00	6.74
7.328	7.610 (0.000)	275	131968				10.00- 60.00	30.15
7.328	7.610 (0.000)	365	16920				1.00- 0.00	3.87
7.328	7.610 (0.000)	441	52160				0.01- 24.00	15.40
7.328	7.610 (0.000)	442	338752				50.00- 0.00	77.39
7.328	7.610 (0.000)	443	64368				15.00- 24.00	19.00

Data File: \\Svecd04\DD\chem\smsd01.i\S1050812,b\DFTPP1.D

Date : 08-MAY-2012 07:06

Client ID: DFTPP1

Instrument: smsd01.i

Sample Info: 45777

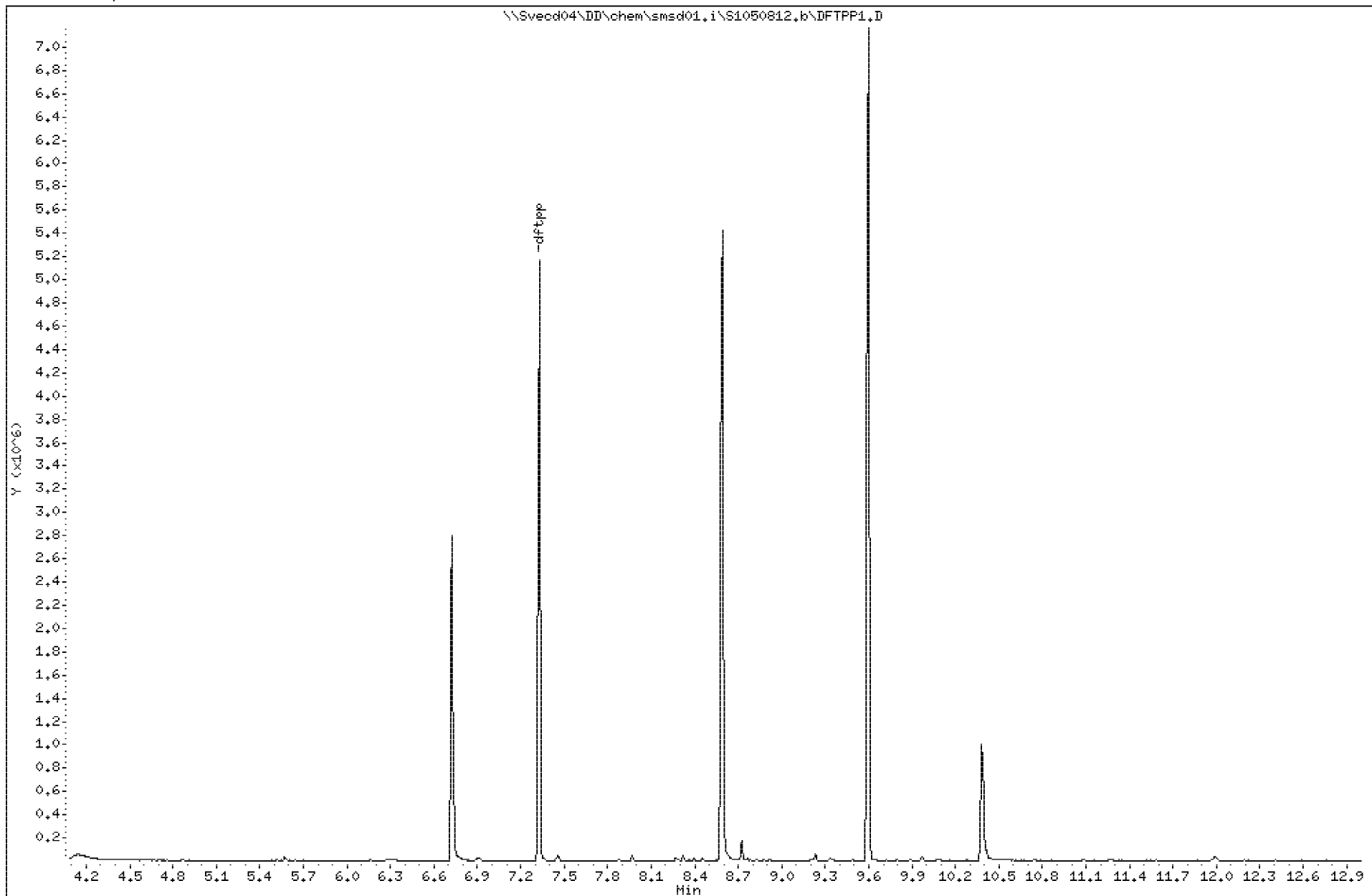
Operator:

Volume Injected (uL): 1.0

Column diameter: 2.00

Column phase:

\\Svecd04\DD\chem\smsd01.i\S1050812,b\DFTPP1.D



Data File: \\Svecd04\DD\chem\smsd01.i\S1050812.b\DFTPP1.D

Date : 08-MAY-2012 07:06

Client ID: DFTPP1

Instrument: smsd01.i

Sample Info: 45777

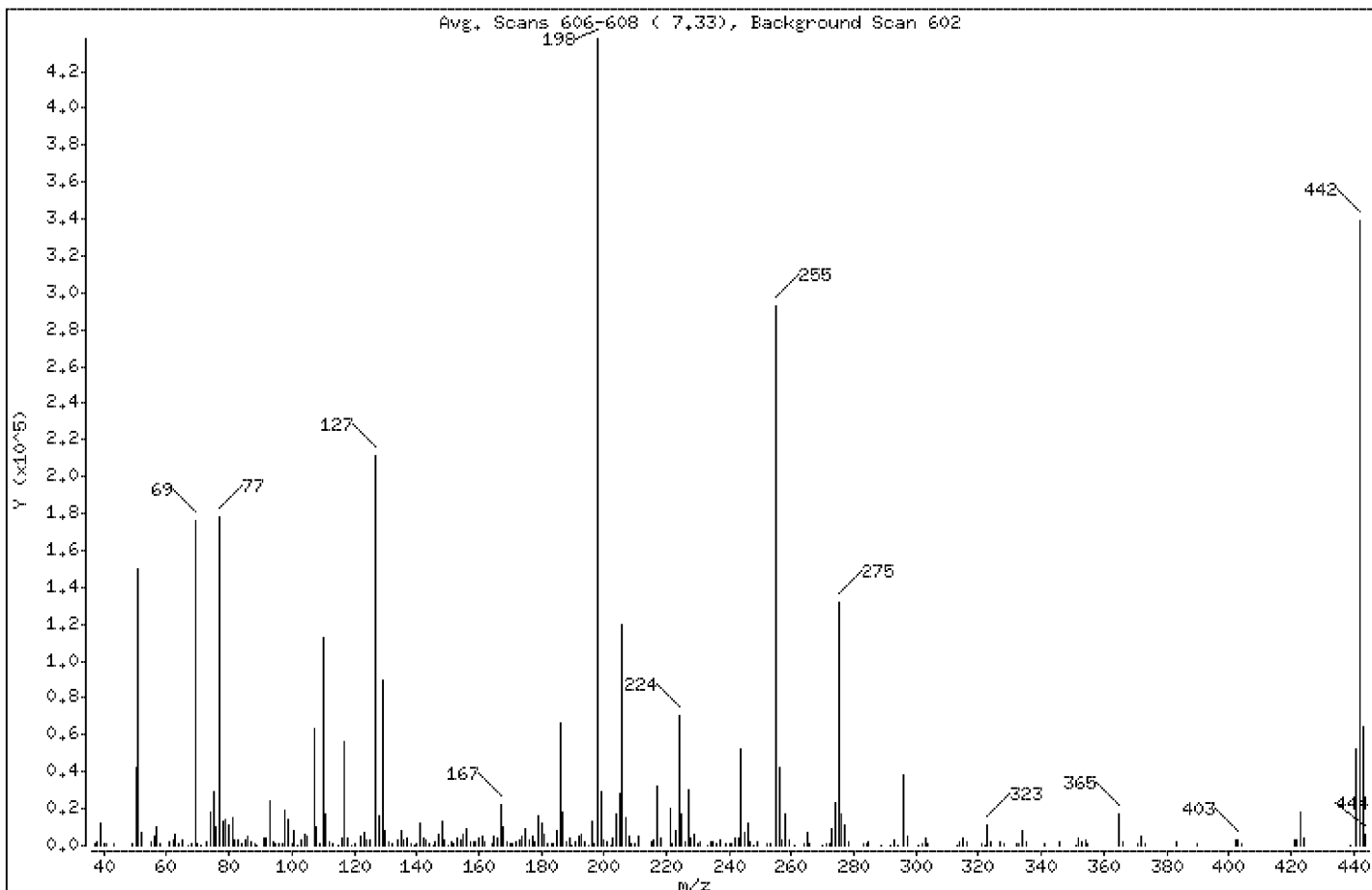
Volume Injected (uL): 1.0

Operator:

Column phase:

Column diameter: 2.00

1 dfpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	34.27
68	Less than 2.00% of mass 69	0.23 (0.57)
69	Mass 69 relative abundance	40.33
70	Less than 2.00% of mass 69	0.23 (0.57)
127	10.00 - 80.00% of mass 198	48.27
197	Less than 2.00% of mass 198	0.16
199	5.00 - 9.00% of mass 198	6.74
275	10.00 - 60.00% of mass 198	30.15
365	Greater than 1.00% of mass 198	3.87
441	0.01 - 24.00% of mass 442	11.92 (15.40)
442	Greater than 50.00% of mass 198	77.39
443	15.00 - 24.00% of mass 442	14.71 (19.00)

Data File: \\Svecd04\DD\chem\smsd01.i\S1050812.b\DFTPP1.D

Date : 08-MAY-2012 07:06

Client ID: DFTPP1

Instrument: smsd01.i

Sample Info: 45777

Volume Injected (uL): 1.0

Operator:

Column phase:

Column diameter: 2.00

Data File: DFTPP1.D

Spectrum: Avg. Scans 606-608 (7.33), Background Scan 602

Location of Maximum: 198.00

Number of points: 260

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	586	118.00	3827	188.00	2135	270.00	228
38.00	2498	119.00	483	189.00	4273	271.00	626
39.00	11654	120.00	948	190.00	417	272.00	927
40.00	1157	122.00	4722	191.00	2117	273.00	8691
41.00	520	123.00	6606	192.00	5468	274.00	23176
43.00	902	124.00	3144	193.00	6256	275.00	131968
49.00	1473	125.00	2589	194.00	1740	276.00	17608
50.00	42720	127.00	211264	195.00	305	277.00	11567
51.00	150016	128.00	16592	196.00	13304	278.00	2045
52.00	7281	129.00	89680	197.00	696	283.00	1218
55.00	1628	130.00	7671	198.00	437696	284.00	898
56.00	5124	131.00	1637	199.00	29496	285.00	2035
57.00	10529	132.00	986	200.00	2721	289.00	268
58.00	508	134.00	2913	201.00	2343	292.00	292
61.00	2155	135.00	7774	202.00	360	293.00	2780
62.00	2696	136.00	3238	203.00	3546	294.00	301
63.00	6436	137.00	3764	204.00	16944	296.00	38264
64.00	837	138.00	831	205.00	28384	297.00	5462
65.00	3304	139.00	361	206.00	119872	301.00	271
67.00	229	140.00	1082	207.00	15243	302.00	556
68.00	1004	141.00	12416	208.00	4850	303.00	4310
69.00	176512	142.00	3966	209.00	1177	304.00	1364
70.00	1005	143.00	2762	210.00	1467	313.00	274
71.00	270	144.00	564	211.00	5252	314.00	2004
73.00	1737	145.00	496	215.00	1615	315.00	4161
74.00	17656	146.00	2073	216.00	3182	316.00	2429
75.00	29584	147.00	6418	217.00	31936	321.00	1178
76.00	9821	148.00	13480	218.00	4177	322.00	230
77.00	177920	149.00	2939	221.00	20296	323.00	11515
78.00	12599	150.00	427	222.00	1151	324.00	2364
79.00	14473	151.00	1945	223.00	7762	327.00	2339
80.00	11096	152.00	1064	224.00	70504	328.00	1179
81.00	15559	153.00	3835	225.00	17496	332.00	806
82.00	3357	154.00	2926	226.00	1911	333.00	986
83.00	3334	155.00	6146	227.00	30576	334.00	8126

Data File: \\Svecd04\DD\chem\smsd01.i\S1050812.b\DFTPP1.D

Date : 08-MAY-2012 07:06

Client ID: DFTPP1

Instrument: smsd01.i

Sample Info: 45777

Volume Injected (uL): 1.0

Operator:

Column phase:

Column diameter: 2.00

Data File: DFTPP1.D

Spectrum: Avg. Scans 606-608 (7.33), Background Scan 602

Location of Maximum: 198.00

Number of points: 260

m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.00	525	156.00	9372	228.00	3861	335.00	2017
85.00	3079	157.00	2237	229.00	6220	341.00	1436
86.00	4880	158.00	2325	230.00	904	346.00	2199
87.00	2021	159.00	1678	231.00	2440	351.00	278
88.00	634	160.00	3554	233.00	235	352.00	3565
89.00	254	161.00	5202	234.00	2091	353.00	2284
91.00	4039	162.00	1579	235.00	2397	354.00	3502
92.00	4232	164.00	530	236.00	1337	355.00	804
93.00	24440	165.00	4902	237.00	2557	365.00	16920
94.00	1583	166.00	3943	239.00	1411	366.00	2458
95.00	1009	167.00	22136	240.00	918	371.00	971
96.00	1098	168.00	10324	241.00	1496	372.00	5464
97.00	587	169.00	1817	242.00	3550	373.00	1355
98.00	19056	170.00	952	243.00	4329	383.00	1568
99.00	14103	171.00	1213	244.00	52552	390.00	553
100.00	1202	172.00	2129	245.00	7079	402.00	2583
101.00	7941	173.00	2739	246.00	12069	403.00	3085
102.00	253	174.00	5184	247.00	2305	404.00	868
103.00	2732	175.00	8903	248.00	230	421.00	2576
104.00	5728	176.00	2794	249.00	1767	422.00	2617
105.00	5378	177.00	4558	252.00	765	423.00	18504
107.00	63696	178.00	1766	253.00	1088	424.00	4182
108.00	9860	179.00	16312	255.00	292544	439.00	260
109.00	579	180.00	12306	256.00	42016	441.00	52160
110.00	112912	181.00	5745	257.00	3048	442.00	338752
111.00	17216	182.00	737	258.00	17248	443.00	64368
112.00	2153	183.00	530	259.00	2651	444.00	5980
113.00	580	184.00	1277	261.00	277		
115.00	230	185.00	7991	264.00	545		
116.00	3922	186.00	66312	265.00	6943		
117.00	56168	187.00	18360	266.00	1299		

DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 05/08/2012 07:20

Datafile Analyzed: //Svecd04/DD/chem/smsd01.i/S1050812.b/DFTPP1.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 05/09/2012 11:50

Datafile Analyzed: //Svecd04/DD/chem/smsd01.i/S1050812.b/DFTPP1.D

PEL Laboratories, Inc.

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 Inj Date : 08-MAY-2012 07:26 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : 46068
 Misc Info :
 Comment :
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 Meth Date : 08-May-2012 12:02 mjacobs Quant Type: ISTD
 Cal Date : 07-MAY-2012 10:01 Cal File: SIMCAL6.D
 Als bottle: 99 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.253	4.253	(1.000)	152	15297	0.80000		80.00- 120.00	100.00	
4.253	4.253	(1.000)	115	9305			32.50- 92.50	60.83	

* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406	(1.000)	136	53257	0.80000		80.00- 120.00	100.00	
5.406	5.406	(1.000)	68	2036			0.00- 34.01	3.82	

6 Naphthalene CAS #: 91-20-3									
5.429	5.429	(1.004)	128	38776	0.50000	0.54	80.00- 120.00	100.00	
5.429	5.429	(1.004)	129	4123			0.00- 40.52	10.63	

8 2-Methylnaphthalene CAS #: 91-57-6									
6.082	6.093	(1.125)	142	24298	0.50000	0.53	80.00- 120.00	100.00	
6.082	6.093	(1.125)	141	21055			56.36- 116.36	86.65	

9 1-Methylnaphthalene CAS #: 90-12-0									
6.177	6.177	(1.143)	142	24366	0.50000	0.51	80.00- 120.00	100.00(M)	
6.177	6.177	(1.143)	141	19868			49.28- 109.28	81.54	

\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.449	6.449	(0.908)	172	30362	0.50000	0.55	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 10 2-Fluorobiphenyl (SURR) (continued)									
6.449	6.449	(0.908)	171	10482			4.13- 64.13	34.52	

12 Acenaphthylene CAS #: 208-96-8									
6.964	6.964	(0.980)	152	37451	0.50000	0.54	80.00- 120.00	100.00	
6.955	6.964	(0.979)	151	7404			0.00- 49.78	19.77	

* 13 Acenaphthene-d10 CAS #: 15067-26-2									
7.105	7.105	(1.000)	164	30518	0.80000		80.00- 120.00	100.00	
7.105	7.105	(1.000)	162	29726			64.70- 124.70	97.40	

14 Acenaphthene CAS #: 83-32-9									
7.131	7.131	(1.004)	153	24755	0.50000	0.54	80.00- 120.00	100.00	
7.131	7.131	(1.004)	154	22512			60.47- 120.47	90.94	

16 Fluorene CAS #: 86-73-7									
7.641	7.641	(1.076)	166	29144	0.50000	0.56	80.00- 120.00	100.00	
7.641	7.641	(1.076)	165	27845			64.52- 124.52	95.54	

* 17 Phenanthrene-d10 CAS #: 1517-22-2									
8.555	8.555	(1.000)	188	55770	0.80000		80.00- 120.00	100.00	
8.549	8.555	(1.000)	94	3689			0.00- 36.97	6.61	

18 Phenanthrene CAS #: 85-01-8									
8.575	8.575	(1.002)	178	42056	0.50000	0.55	80.00- 120.00	100.00	
8.575	8.575	(1.002)	179	6305			0.00- 45.15	14.99	

19 Anthracene CAS #: 120-12-7									
8.626	8.626	(1.008)	178	32514	0.50000	0.56	80.00- 120.00	100.00	
8.626	8.626	(1.008)	179	4923			0.00- 45.16	15.14	

21 Fluoranthene CAS #: 206-44-0									
9.748	9.748	(1.139)	202	48534	0.50000	0.55	80.00- 120.00	100.00	
9.741	9.748	(1.139)	101	3799			0.00- 38.08	7.83	

22 Pyrene CAS #: 129-00-0									
9.967	9.967	(0.894)	202	49790	0.50000	0.52	80.00- 120.00	100.00	
9.967	9.967	(0.894)	200	10311			0.00- 50.73	20.71	

\$ 23 Terphenyl-d14 (SURR) CAS #: 1718-51-0									
10.118	10.124	(0.908)	244	32894	0.50000	0.54	80.00- 120.00	100.00	
10.118	10.124	(0.908)	122	2684			0.00- 38.43	8.16	

25 Benzo[a]anthracene CAS #: 56-55-3									
11.134	11.140	(0.999)	228	42044	0.50000	0.52	80.00- 120.00	100.00	
11.134	11.140	(0.999)	229	8163			0.00- 50.51	19.42	

* 26 Chrysene-d12 CAS #: 1719-03-5									
11.146	11.146	(1.000)	240	65045	0.80000		80.00- 120.00	100.00	
11.140	11.146	(1.000)	120	4856			0.00- 37.78	7.47	

27 Chrysene CAS #: 218-01-9									
11.171	11.171	(1.002)	228	49666	0.50000	0.54	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	====	=====	=====	=====	=====	=====	=====
27 Chrysene (continued)									
11.171	11.171	(1.002)	226	14265			0.00- 58.50	28.72	

30 Benzo[b]fluoranthene CAS #: 205-99-2									
12.120	12.124	(0.973)	252	43589	0.50000	0.51	80.00- 120.00	100.00	
12.120	12.124	(0.973)	253	9224			0.00- 51.26	21.16	

31 Benzo[k]fluoranthene CAS #: 207-08-9									
12.142	12.146	(0.975)	252	58608	0.50000	0.55	80.00- 120.00	100.00	
12.146	12.146	(0.975)	253	12583			0.00- 53.27	21.47	

32 Benzo[a]pyrene CAS #: 50-32-8									
12.402	12.402	(0.996)	252	40899	0.50000	0.51	80.00- 120.00	100.00(M)	
12.406	12.402	(0.996)	253	8992			0.00- 53.07	21.99	

* 33 Perylene-d12 CAS #: 1520-96-3									
12.454	12.454	(1.000)	264	62257	0.80000		80.00- 120.00	100.00	
12.454	12.454	(1.000)	260	13603			0.00- 52.55	21.85	

34 Indeno[1,2,3-cd]pyrene CAS #: 193-39-5									
13.454	13.454	(1.080)	276	52007	0.50000	0.53	80.00- 120.00	100.00	
13.454	13.454	(1.080)	138	10209			0.00- 49.54	19.63	

35 Dibenz[a,h]anthracene CAS #: 53-70-3									
13.461	13.465	(1.081)	278	41569	0.50000	0.53	80.00- 120.00	100.00	
13.461	13.465	(1.081)	139	5273			0.00- 43.05	12.68	

36 Benzo[g,h,i]perylene CAS #: 191-24-2									
13.733	13.737	(1.103)	276	44663	0.50000	0.52	80.00- 120.00	100.00	
13.733	13.737	(1.103)	138	7525			0.00- 46.66	16.85	

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd01.i\S1050812.b\SIMCCV1.D

Page 4

Date : 08-MAY-2012 07:26

Client ID: SIMCCV1

Instrument: smsd01.i

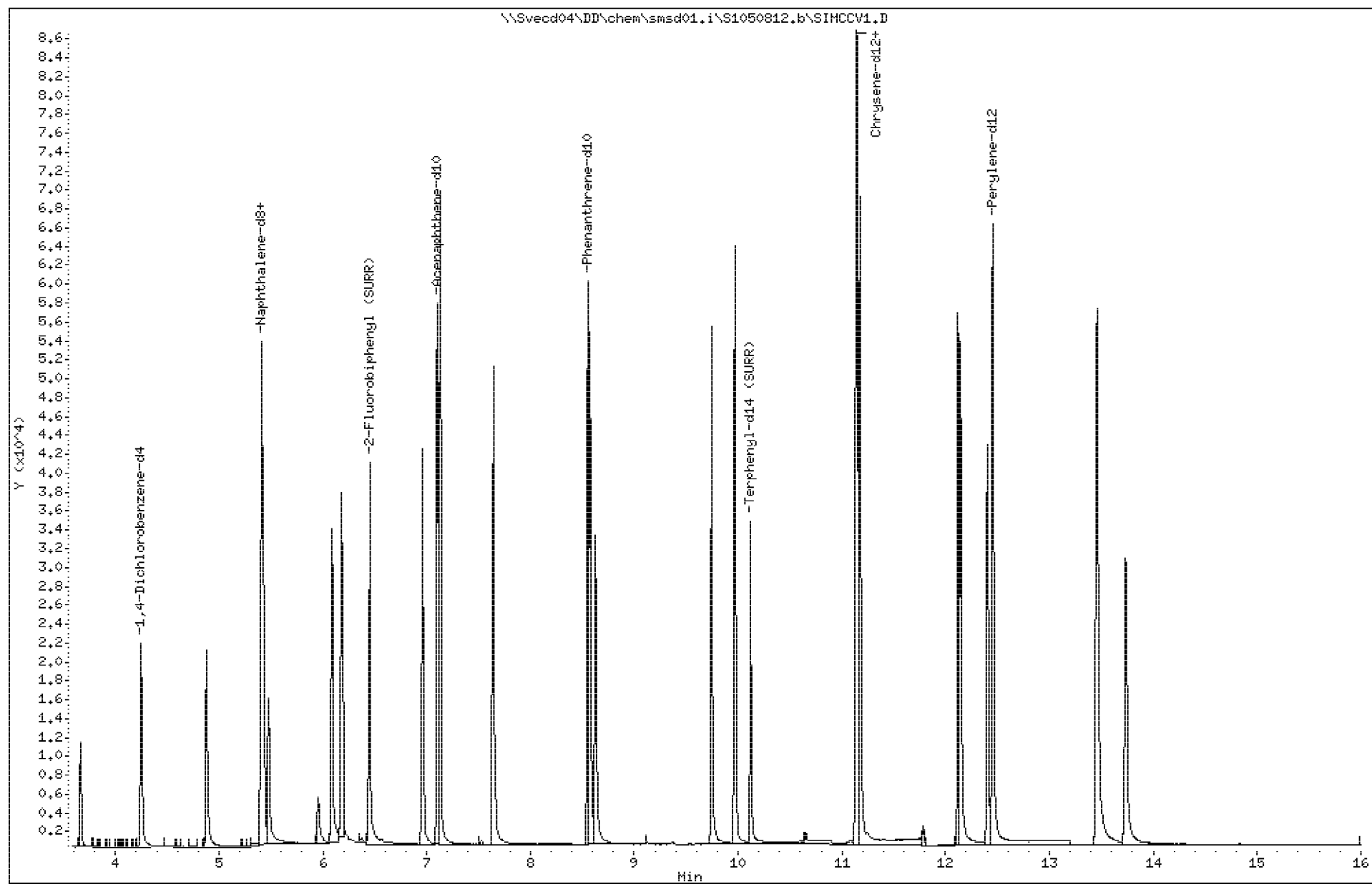
Sample Info: 46068

Purge Volume: 1000.0

Operator:

Column phase: HPMS-5

Column diameter: 0.25



3505843

PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050812.b\84301.D
 Lab Smp Id: 350584301 Client Smp ID: EPAFMC-SD-07
 Inj Date : 08-MAY-2012 09:32 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : SIM350584301
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd01.i\S1050812.b\SIMBCSTR.m
 Meth Date : 08-May-2012 12:02 mjacobs Quant Type: ISTD
 Cal Date : 07-MAY-2012 10:01 Cal File: SIMCAL6.D
 Als bottle: 78
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.300	Weight of sample extracted (g)
M	24.500	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.253	4.253	(1.000)	152	16324	0.80000		80.00- 120.00	100.00	
4.253	4.253	(1.000)	115	9695			32.50- 92.50	59.39	
* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406	(1.000)	136	53054	0.80000		80.00- 120.00	100.00	
5.406	5.406	(1.000)	68	2036			0.00- 34.01	3.84	
6 Naphthalene CAS #: 91-20-3									
5.429	5.429	(1.004)	128	79919	1.11632	58.4	80.00- 120.00	100.00	
5.429	5.429	(1.004)	129	8611			0.00- 40.52	10.77	
8 2-Methylnaphthalene CAS #: 91-57-6									
6.082	6.093	(1.125)	142	18443	0.40097	21.0	80.00- 120.00	100.00(M)	
6.082	6.093	(1.125)	141	15187			56.36- 116.36	82.35	
9 1-Methylnaphthalene CAS #: 90-12-0									
6.177	6.177	(1.143)	142	7313	0.15356	8.0	80.00- 120.00	100.00	
6.177	6.177	(1.143)	141	6479			49.28- 109.28	88.60	
\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.449	6.449	(0.908)	172	20682	0.34946	18.3	80.00- 120.00	100.00(R)	

CONCENTRATIONS								
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 10 2-Fluorobiphenyl (SURR) (continued)								
6.449	6.449	(0.908)	171	7230			4.13- 64.13	34.96

12 Acenaphthylene					CAS #: 208-96-8			
6.964	6.964	(0.980)	152	36909	0.49581	26.0	80.00- 120.00	100.00
6.964	6.964	(0.980)	151	7369			0.00- 49.78	19.97

* 13 Acenaphthene-d10					CAS #: 15067-26-2			
7.105	7.105	(1.000)	164	32768	0.80000		80.00- 120.00	100.00
7.096	7.105	(1.000)	162	30461			64.70- 124.70	92.96

14 Acenaphthene					CAS #: 83-32-9			
7.131	7.131	(1.004)	153	8539	0.17297	9.0	80.00- 120.00	100.00
7.131	7.131	(1.004)	154	7407			60.47- 120.47	86.74

16 Fluorene					CAS #: 86-73-7			
7.641	7.641	(1.076)	166	25361	0.45093	23.6	80.00- 120.00	100.00
7.641	7.641	(1.076)	165	24507			64.52- 124.52	96.63

* 17 Phenanthrene-d10					CAS #: 1517-22-2			
8.555	8.555	(1.000)	188	60644	0.80000		80.00- 120.00	100.00
8.549	8.555	(1.000)	94	3854			0.00- 36.97	6.36

18 Phenanthrene					CAS #: 85-01-8			
8.575	8.575	(1.002)	178	195133	2.36305	124	80.00- 120.00	100.00
8.575	8.575	(1.002)	179	29480			0.00- 45.15	15.11

19 Anthracene					CAS #: 120-12-7			
8.626	8.626	(1.008)	178	63608	1.01699	53.2	80.00- 120.00	100.00
8.626	8.626	(1.008)	179	11789			0.00- 45.16	18.53

21 Fluoranthene					CAS #: 206-44-0			
9.748	9.748	(1.139)	202	584598	6.07869	318	80.00- 120.00	100.00
9.741	9.748	(1.139)	101	42949			0.00- 38.08	7.35

22 Pyrene					CAS #: 129-00-0			
9.967	9.967	(0.894)	202	441319	4.50894	236	80.00- 120.00	100.00
9.967	9.967	(0.894)	200	92305			0.00- 50.73	20.92

\$ 23 Terphenyl-d14 (SURR)					CAS #: 1718-51-0			
10.118	10.124	(0.908)	244	22318	0.35703	18.7	80.00- 120.00	100.00
10.118	10.124	(0.908)	122	2028			0.00- 38.43	9.09

25 Benzo[a]anthracene					CAS #: 56-55-3			
11.134	11.140	(0.999)	228	295971	3.55307	186	80.00- 120.00	100.00
11.134	11.140	(0.999)	229	83106			0.00- 50.51	28.08

* 26 Chrysene-d12					CAS #: 1719-03-5			
11.146	11.146	(1.000)	240	67247	0.80000		80.00- 120.00	100.00
11.140	11.146	(1.000)	120	4771			0.00- 37.78	7.09

27 Chrysene					CAS #: 218-01-9			
11.171	11.171	(1.002)	228	333000	3.53533	185	80.00- 120.00	100.00

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
27 Chrysene (continued)									
11.171	11.171	(1.002)	226	92847			0.00-	58.50	27.88

30 Benzo[b]fluoranthene CAS #: 205-99-2									
12.124	12.124	(0.973)	252	376939	4.07629	213	80.00-	120.00	100.00(M)
12.124	12.124	(0.973)	253	90786			0.00-	51.26	24.09

31 Benzo[k]fluoranthene CAS #: 207-08-9									
12.135	12.146	(0.974)	252	197374	1.70561	89.3	80.00-	120.00	100.00(M)
12.135	12.146	(0.974)	253	48894			0.00-	53.27	24.77

32 Benzo[a]pyrene CAS #: 50-32-8									
12.402	12.402	(0.996)	252	253578	2.92171	153	80.00-	120.00	100.00
12.402	12.402	(0.996)	253	59341			0.00-	53.07	23.40

* 33 Perylene-d12 CAS #: 1520-96-3									
12.454	12.454	(1.000)	264	67870	0.80000		80.00-	120.00	100.00
12.454	12.454	(1.000)	260	15073			0.00-	52.55	22.21

34 Indeno[1,2,3-cd]pyrene CAS #: 193-39-5									
13.454	13.454	(1.080)	276	165872	1.54744	81.0	80.00-	120.00	100.00
13.450	13.454	(1.080)	138	25719			0.00-	49.54	15.51

35 Dibenz[a,h]anthracene CAS #: 53-70-3									
13.461	13.465	(1.081)	278	47540	0.55711	29.2	80.00-	120.00	100.00
13.454	13.465	(1.080)	139	11055			0.00-	43.05	23.25

36 Benzo[g,h,i]perylene CAS #: 191-24-2									
13.737	13.737	(1.103)	276	163533	1.73594	90.9	80.00-	120.00	100.00
13.733	13.737	(1.103)	138	25026			0.00-	46.66	15.30

QC Flag Legend

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

Data File: \\Svecd04\DD\chem\smsd01.i\S1050812.b\84301.D

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Date : 08-MAY-2012 09:32

Client ID: EPAFMC-SD-07

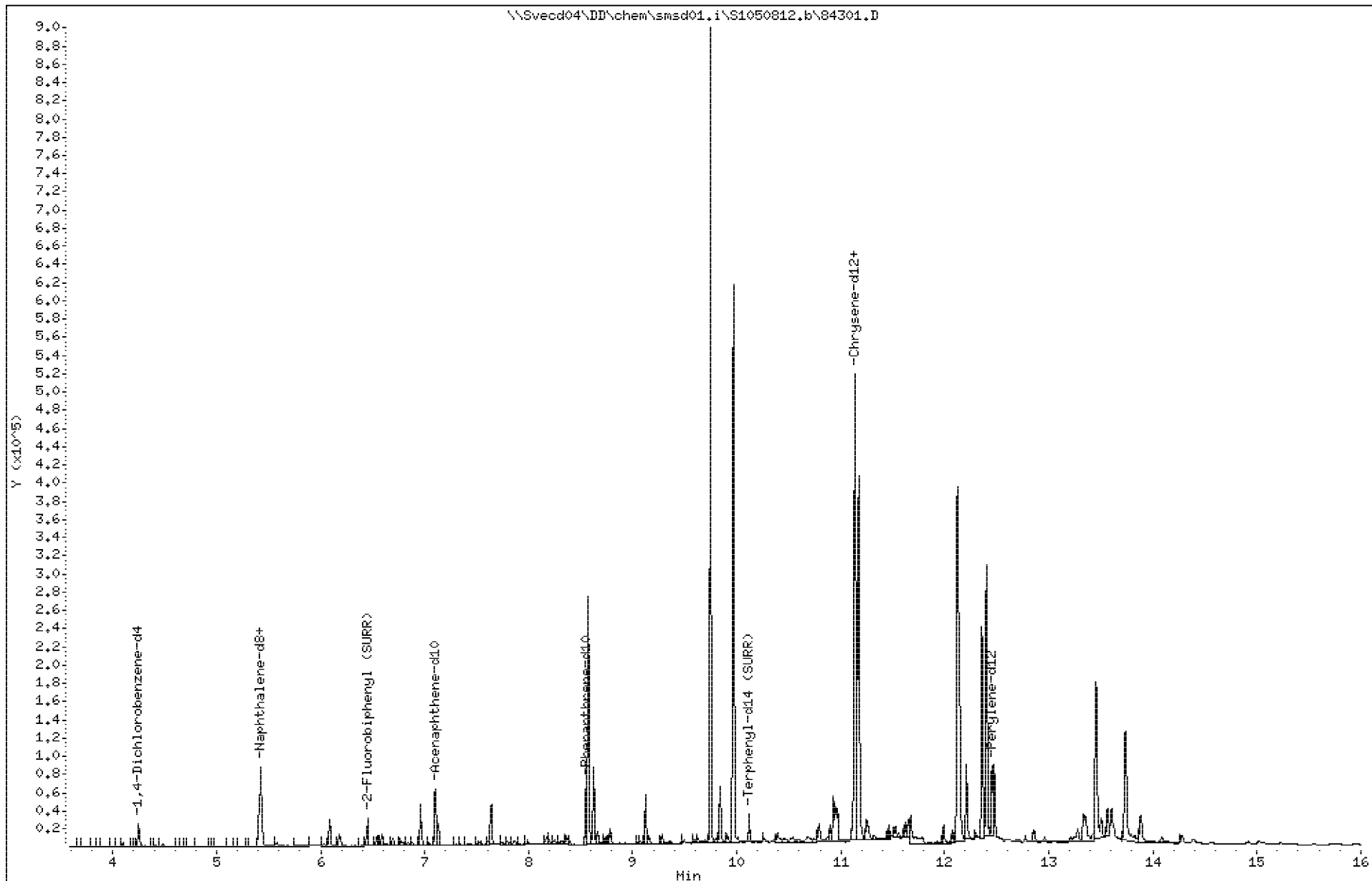
Instrument: smsd01.i

Sample Info: SIM350584301

Operator:

Column phase: HPMS-5

Column diameter: 0.25



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050812.b\84302.D
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 Inj Date : 08-MAY-2012 09:56 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : SIM350584302
 Misc Info :
 Comment :
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 Meth Date : 08-May-2012 12:02 mjacobs Quant Type: ISTD
 Cal Date : 07-MAY-2012 10:01 Cal File: SIMCAL6.D
 Als bottle: 79 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.460	Weight of sample extracted (g)
M	24.500	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.249	4.253 (1.000)		152	15469	0.80000		80.00- 120.00	100.00	
4.249	4.253 (1.000)		115	9200			32.50- 92.50	59.47	
* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406 (1.000)		136	54439	0.80000		80.00- 120.00	100.00	
5.406	5.406 (1.000)		68	2227			0.00- 34.01	4.09	
6 Naphthalene CAS #: 91-20-3									
5.429	5.429 (1.004)		128	108007	1.47027	76.5	80.00- 120.00	100.00(R)	
5.429	5.429 (1.004)		129	11438			0.00- 40.52	10.59	
8 2-Methylnaphthalene CAS #: 91-57-6									
6.082	6.093 (1.125)		142	34913	0.73974	38.5	80.00- 120.00	100.00(R)	
6.082	6.093 (1.125)		141	29428			56.36- 116.36	84.29	
9 1-Methylnaphthalene CAS #: 90-12-0									
6.177	6.177 (1.143)		142	22511	0.46067	24.0	80.00- 120.00	100.00	
6.177	6.177 (1.143)		141	19784			49.28- 109.28	87.89	
\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.449	6.449 (0.909)		172	18175	0.29676	15.4	80.00- 120.00	100.00(R)	

CONCENTRATIONS								
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 10 2-Fluorobiphenyl (SURR) (continued)								
6.449	6.449	(0.909)	171	6461			4.13- 64.13	35.55

12 Acenaphthylene					CAS #: 208-96-8			
6.955	6.964	(0.980)	152	89116	1.15684	60.2	80.00- 120.00	100.00(R)
6.955	6.964	(0.980)	151	17172			0.00- 49.78	19.27

* 13 Acenaphthene-d10					CAS #: 15067-26-2			
7.096	7.105	(1.000)	164	33909	0.80000		80.00- 120.00	100.00
7.096	7.105	(1.000)	162	31690			64.70- 124.70	93.46

14 Acenaphthene					CAS #: 83-32-9			
7.131	7.131	(1.005)	153	28217	0.55236	28.7	80.00- 120.00	100.00
7.131	7.131	(1.005)	154	25298			60.47- 120.47	89.66

16 Fluorene					CAS #: 86-73-7			
7.641	7.641	(1.077)	166	57722	0.99178	51.6	80.00- 120.00	100.00(R)
7.632	7.641	(1.076)	165	53626			64.52- 124.52	92.90

* 17 Phenanthrene-d10					CAS #: 1517-22-2			
8.549	8.555	(1.000)	188	63037	0.80000		80.00- 120.00	100.00
8.549	8.555	(1.000)	94	4147			0.00- 36.97	6.58

18 Phenanthrene					CAS #: 85-01-8			
8.575	8.575	(1.003)	178	271524	3.16331	164	80.00- 120.00	100.00(R)
8.575	8.575	(1.003)	179	41359			0.00- 45.15	15.23

19 Anthracene					CAS #: 120-12-7			
8.626	8.626	(1.009)	178	108951	1.67583	87.2	80.00- 120.00	100.00(R)
8.626	8.626	(1.009)	179	18586			0.00- 45.16	17.06

21 Fluoranthene					CAS #: 206-44-0			
9.748	9.748	(1.140)	202	741839	7.42087	386	80.00- 120.00	100.00(R)
9.748	9.748	(1.140)	101	57377			0.00- 38.08	7.73

22 Pyrene					CAS #: 129-00-0			
9.967	9.967	(0.894)	202	564457	5.49758	286	80.00- 120.00	100.00(R)
9.967	9.967	(0.894)	200	117772			0.00- 50.73	20.86

\$ 23 Terphenyl-d14 (SURR)					CAS #: 1718-51-0			
10.118	10.124	(0.908)	244	22580	0.34435	17.9	80.00- 120.00	100.00
10.118	10.124	(0.908)	122	2078			0.00- 38.43	9.20

25 Benzo[a]anthracene					CAS #: 56-55-3			
11.134	11.140	(0.999)	228	413972	4.73746	246	80.00- 120.00	100.00(R)
11.134	11.140	(0.999)	229	79813			0.00- 50.51	19.28

* 26 Chrysene-d12					CAS #: 1719-03-5			
11.146	11.146	(1.000)	240	70543	0.80000		80.00- 120.00	100.00
11.140	11.146	(1.000)	120	5239			0.00- 37.78	7.43

27 Chrysene					CAS #: 218-01-9			
11.171	11.171	(1.002)	228	445198	4.50565	234	80.00- 120.00	100.00(R)

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET	RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
27 Chrysene (continued)									
11.165	11.171	(1.002)	226	135574			0.00-	58.50	30.45

30 Benzo[b]fluoranthene CAS #: 205-99-2									
12.120	12.124	(0.973)	252	519773	5.30469	276	80.00-	120.00	100.00(R)
12.124	12.124	(0.973)	253	113672			0.00-	51.26	21.87

31 Benzo[k]fluoranthene CAS #: 207-08-9									
12.142	12.146	(0.975)	252	273556	2.23095	116	80.00-	120.00	100.00(RM)
12.131	12.146	(0.974)	253	78455			0.00-	53.27	28.68

32 Benzo[a]pyrene CAS #: 50-32-8									
12.402	12.402	(0.996)	252	351784	3.82520	199	80.00-	120.00	100.00(R)
12.402	12.402	(0.996)	253	82518			0.00-	53.07	23.46

* 33 Perylene-d12 CAS #: 1520-96-3									
12.454	12.454	(1.000)	264	71916	0.80000		80.00-	120.00	100.00
12.454	12.454	(1.000)	260	15462			0.00-	52.55	21.50

34 Indeno[1,2,3-cd]pyrene CAS #: 193-39-5									
13.454	13.454	(1.080)	276	254469	2.24041	116	80.00-	120.00	100.00(R)
13.450	13.454	(1.080)	138	43423			0.00-	49.54	17.06

35 Dibenz[a,h]anthracene CAS #: 53-70-3									
13.457	13.465	(1.081)	278	91211	1.00875	52.5	80.00-	120.00	100.00(R)
13.457	13.465	(1.081)	139	14231			0.00-	43.05	15.60

36 Benzo[g,h,i]perylene CAS #: 191-24-2									
13.733	13.737	(1.103)	276	234271	2.34693	122	80.00-	120.00	100.00(R)
13.733	13.737	(1.103)	138	36613			0.00-	46.66	15.63

QC Flag Legend

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

Data File: \\Svecd04\DD\chem\smsd01.i\S1050812.b\84302.D

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Date : 08-MAY-2012 09:56

Client ID: EPAFMC-SD-07MS

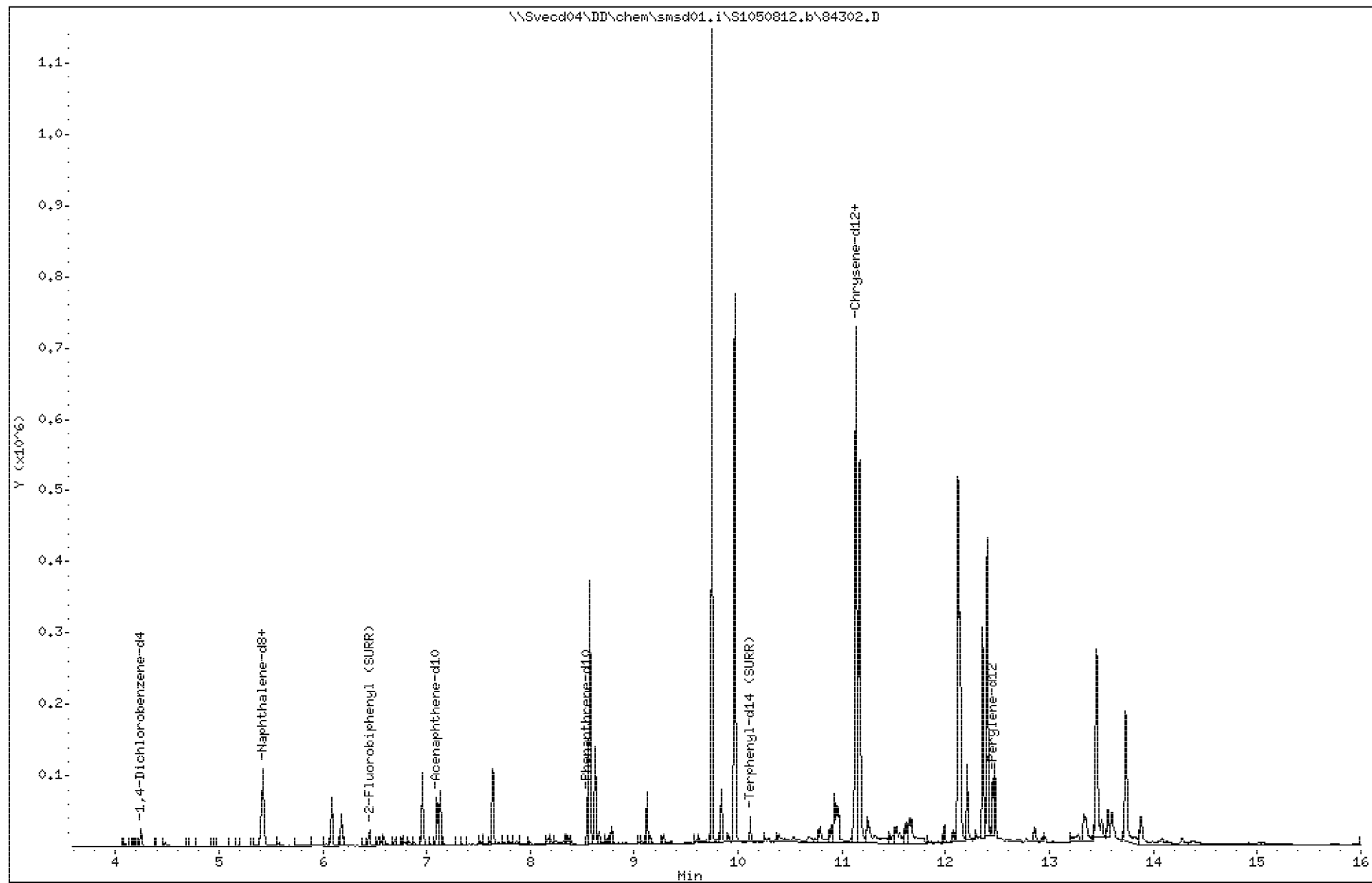
Instrument: smsd01.i

Sample Info: SIM350584302

Operator:

Column phase: HPMS-5

Column diameter: 0.25



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050812.b\84304.D
 Lab Smp Id: 350584304 Client Smp ID: EPAFMC-SD-08
 Inj Date : 08-MAY-2012 13:57 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : SIM350584304
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd01.i\S1050812.b\SIMBCSTR.m
 Meth Date : 08-May-2012 12:02 mjacobs Quant Type: ISTD
 Cal Date : 07-MAY-2012 10:01 Cal File: SIMCAL6.D
 Als bottle: 15
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.300	Weight of sample extracted (g)
M	2.900	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.254	4.253 (1.000)		152	8945	0.80000		80.00- 120.00	100.00	
4.249	4.253 (1.000)		115	5533			32.50- 92.50	61.86	
* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406 (1.000)		136	31807	0.80000		80.00- 120.00	100.00	
5.406	5.406 (1.000)		68	1312			0.00- 34.01	4.12	
6 Naphthalene CAS #: 91-20-3									
5.430	5.429 (1.004)		128	31066	0.72380	29.5	80.00- 120.00	100.00	
5.430	5.429 (1.004)		129	3186			0.00- 40.52	10.26	
8 2-Methylnaphthalene CAS #: 91-57-6									
6.082	6.093 (1.125)		142	6515	0.23626	9.6	80.00- 120.00	100.00(M)	
6.082	6.093 (1.125)		141	5178			56.36- 116.36	79.48	
9 1-Methylnaphthalene CAS #: 90-12-0									
6.177	6.177 (1.143)		142	3175	0.11121	4.5	80.00- 120.00	100.00	
6.177	6.177 (1.143)		141	2857			49.28- 109.28	89.98	
\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.450	6.449 (0.908)		172	14048	0.38589	15.7	80.00- 120.00	100.00	

CONCENTRATIONS								
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 10 2-Fluorobiphenyl (SURR) (continued)								
6.450	6.449	(0.908)	171	4983			4.13- 64.13	35.47

12 Acenaphthylene					CAS #: 208-96-8			
6.964	6.964	(0.980)	152	59370	1.29657	52.8	80.00- 120.00	100.00
6.964	6.964	(0.980)	151	11011			0.00- 49.78	18.55

* 13 Acenaphthene-d10					CAS #: 15067-26-2			
7.105	7.105	(1.000)	164	20156	0.80000		80.00- 120.00	100.00
7.105	7.105	(1.000)	162	19031			64.70- 124.70	94.42

14 Acenaphthene					CAS #: 83-32-9			
7.131	7.131	(1.004)	153	18836	0.62031	25.2	80.00- 120.00	100.00
7.131	7.131	(1.004)	154	16081			60.47- 120.47	85.37

16 Fluorene					CAS #: 86-73-7			
7.641	7.641	(1.076)	166	12209	0.35291	14.4	80.00- 120.00	100.00
7.641	7.641	(1.076)	165	11129			64.52- 124.52	91.15

* 17 Phenanthrene-d10					CAS #: 1517-22-2			
8.555	8.555	(1.000)	188	37366	0.80000		80.00- 120.00	100.00
8.549	8.555	(1.000)	94	2421			0.00- 36.97	6.48

18 Phenanthrene					CAS #: 85-01-8			
8.575	8.575	(1.002)	178	101221	1.98941	81.0	80.00- 120.00	100.00
8.575	8.575	(1.002)	179	15371			0.00- 45.15	15.19

19 Anthracene					CAS #: 120-12-7			
8.627	8.626	(1.008)	178	40783	1.05827	43.1	80.00- 120.00	100.00
8.627	8.626	(1.008)	179	8077			0.00- 45.16	19.80

21 Fluoranthene					CAS #: 206-44-0			
9.748	9.748	(1.139)	202	293749	4.95725	202	80.00- 120.00	100.00
9.741	9.748	(1.139)	101	22513			0.00- 38.08	7.66

22 Pyrene					CAS #: 129-00-0			
9.967	9.967	(0.894)	202	226245	3.63450	148	80.00- 120.00	100.00
9.967	9.967	(0.894)	200	46974			0.00- 50.73	20.76

\$ 23 Terphenyl-d14 (SURR)					CAS #: 1718-51-0			
10.118	10.124	(0.908)	244	13847	0.34830	14.2	80.00- 120.00	100.00
10.118	10.124	(0.908)	122	1253			0.00- 38.43	9.05

25 Benzo[a]anthracene					CAS #: 56-55-3			
11.134	11.140	(0.999)	228	155248	2.93039	119	80.00- 120.00	100.00
11.140	11.140	(0.999)	229	30375			0.00- 50.51	19.57

* 26 Chrysene-d12					CAS #: 1719-03-5			
11.147	11.146	(1.000)	240	42769	0.80000		80.00- 120.00	100.00
11.147	11.146	(1.000)	120	3349			0.00- 37.78	7.83

27 Chrysene					CAS #: 218-01-9			
11.172	11.171	(1.002)	228	156488	2.61222	106	80.00- 120.00	100.00

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET	RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
27 Chrysene (continued)									
11.172	11.171	(1.002)	226	51436			0.00-	58.50	32.87

30 Benzo[b]fluoranthene CAS #: 205-99-2									
12.128	12.124	(0.973)	252	226347	3.79118	154	80.00-	120.00	100.00
12.128	12.124	(0.973)	253	48875			0.00-	51.26	21.59

31 Benzo[k]fluoranthene CAS #: 207-08-9									
12.146	12.146	(0.975)	252	82346	1.10214	44.9	80.00-	120.00	100.00(M)
12.139	12.146	(0.974)	253	25350			0.00-	53.27	30.78

32 Benzo[a]pyrene CAS #: 50-32-8									
12.406	12.402	(0.996)	252	131762	2.35137	95.7	80.00-	120.00	100.00
12.406	12.402	(0.996)	253	32959			0.00-	53.07	25.01

* 33 Perylene-d12 CAS #: 1520-96-3									
12.458	12.454	(1.000)	264	43820	0.80000		80.00-	120.00	100.00
12.458	12.454	(1.000)	260	9532			0.00-	52.55	21.75

34 Indeno[1,2,3-cd]pyrene CAS #: 193-39-5									
13.461	13.454	(1.081)	276	91920	1.32818	54.1	80.00-	120.00	100.00
13.461	13.454	(1.081)	138	15940			0.00-	49.54	17.34

35 Dibenz[a,h]anthracene CAS #: 53-70-3									
13.465	13.465	(1.081)	278	25342	0.45997	18.7	80.00-	120.00	100.00
13.461	13.465	(1.081)	139	3455			0.00-	43.05	13.63

36 Benzo[g,h,i]perylene CAS #: 191-24-2									
13.745	13.737	(1.103)	276	91788	1.50911	61.4	80.00-	120.00	100.00
13.745	13.737	(1.103)	138	16634			0.00-	46.66	18.12

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd01.i\S1050812.b\84304.D

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Date : 08-MAY-2012 13:57

Client ID: EPAFMC-SD-08

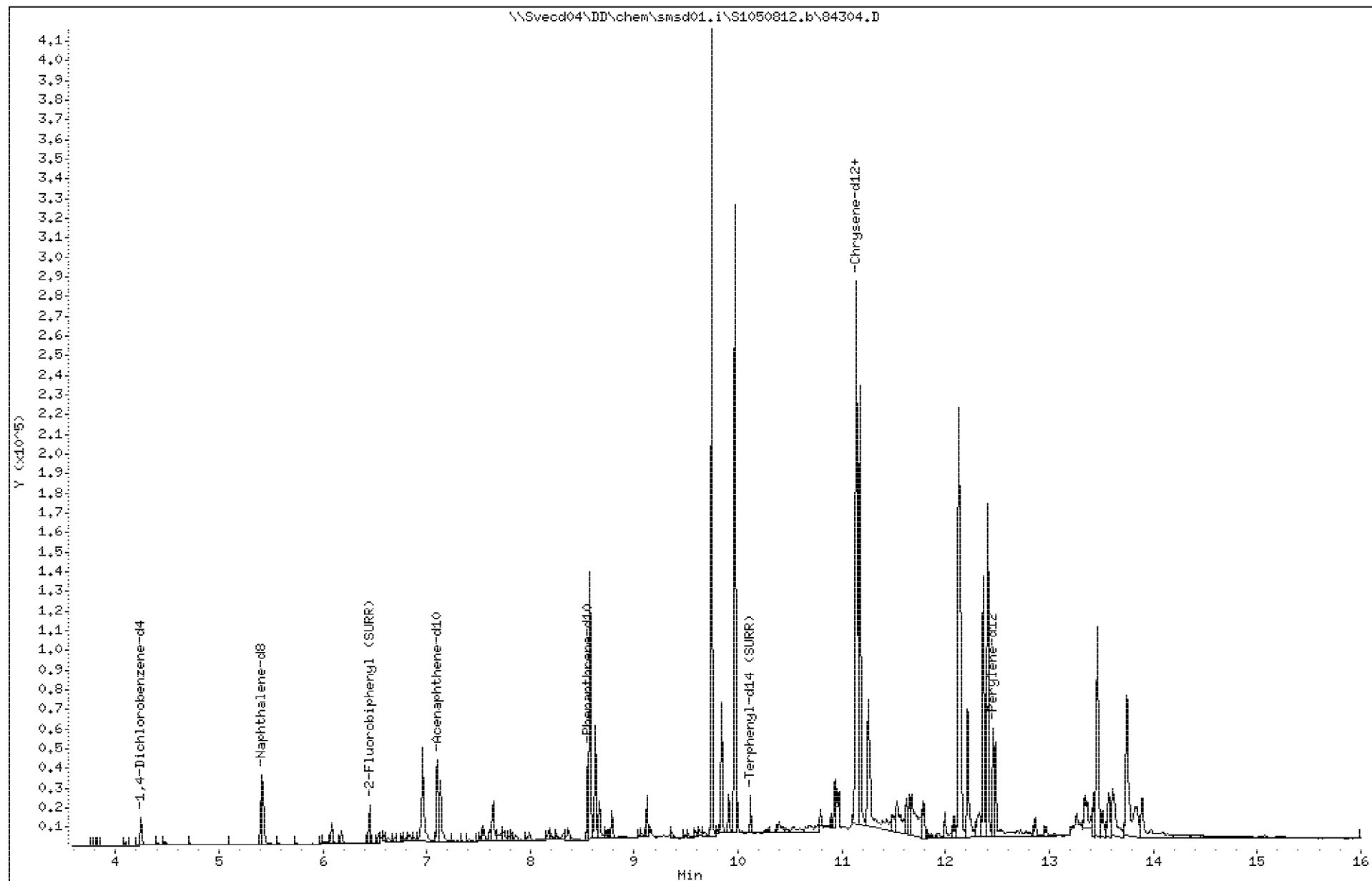
Instrument: smsd01.i

Sample Info: SIM350584304

Operator:

Column phase: HPMS-5

Column diameter: 0.25



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050812.b\84305.D
 Lab Smp Id: 350584305 Client Smp ID: EPAFMC-SD-09
 Inj Date : 08-MAY-2012 14:30
 Operator : Inst ID: smsd01.i
 Smp Info : SIM350584305
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd01.i\S1050812.b\SIMBCSTR.m
 Meth Date : 08-May-2012 12:02 mjacobs Quant Type: ISTD
 Cal Date : 07-MAY-2012 10:01 Cal File: SIMCAL6.D
 Als bottle: 16
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.710	Weight of sample extracted (g)
M	22.300	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.249	4.253 (1.000)		152	9534	0.80000		80.00- 120.00	100.00	
4.249	4.253 (1.000)		115	5563			32.50- 92.50	58.35	
* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406 (1.000)		136	33616	0.80000		80.00- 120.00	100.00	
5.406	5.406 (1.000)		68	1376			0.00- 34.01	4.09	
6 Naphthalene CAS #: 91-20-3									
5.429	5.429 (1.004)		128	23549	0.51914	26.0	80.00- 120.00	100.00	
5.429	5.429 (1.004)		129	2577			0.00- 40.52	10.94	
8 2-Methylnaphthalene CAS #: 91-57-6									
6.082	6.093 (1.125)		142	3701	0.12699	6.4	80.00- 120.00	100.00	
6.082	6.093 (1.125)		141	3107			56.36- 116.36	83.95	
9 1-Methylnaphthalene CAS #: 90-12-0									
6.177	6.177 (1.143)		142	1672	0.05541	2.8	80.00- 120.00	100.00	
6.177	6.177 (1.143)		141	1460			49.28- 109.28	87.32	
\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.449	6.449 (0.908)		172	14081	0.35306	17.7	80.00- 120.00	100.00	

CONCENTRATIONS								
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 10 2-Fluorobiphenyl (SURR) (continued)								
6.449	6.449	(0.908)	171	4923			4.13- 64.13	34.96

12 Acenaphthylene					CAS #: 208-96-8			
6.964	6.964	(0.980)	152	17596	0.35076	17.6	80.00- 120.00	100.00
6.964	6.964	(0.980)	151	3659			0.00- 49.78	20.79

* 13 Acenaphthene-d10					CAS #: 15067-26-2			
7.105	7.105	(1.000)	164	22082	0.80000		80.00- 120.00	100.00
7.105	7.105	(1.000)	162	20742			64.70- 124.70	93.93

14 Acenaphthene					CAS #: 83-32-9			
7.131	7.131	(1.004)	153	2277	0.06845	3.4	80.00- 120.00	100.00
7.131	7.131	(1.004)	154	2014			60.47- 120.47	88.45

16 Fluorene					CAS #: 86-73-7			
7.641	7.641	(1.076)	166	5692	0.15018	7.5	80.00- 120.00	100.00
7.641	7.641	(1.076)	165	5574			64.52- 124.52	97.93

* 17 Phenanthrene-d10					CAS #: 1517-22-2			
8.555	8.555	(1.000)	188	40703	0.80000		80.00- 120.00	100.00
8.549	8.555	(1.000)	94	2680			0.00- 36.97	6.58

18 Phenanthrene					CAS #: 85-01-8			
8.575	8.575	(1.002)	178	55501	1.00139	50.1	80.00- 120.00	100.00
8.575	8.575	(1.002)	179	8445			0.00- 45.15	15.22

19 Anthracene					CAS #: 120-12-7			
8.626	8.626	(1.008)	178	24966	0.59472	29.8	80.00- 120.00	100.00
8.626	8.626	(1.008)	179	4311			0.00- 45.16	17.27

21 Fluoranthene					CAS #: 206-44-0			
9.748	9.748	(1.139)	202	257053	3.98233	199	80.00- 120.00	100.00
9.741	9.748	(1.139)	101	19957			0.00- 38.08	7.76

22 Pyrene					CAS #: 129-00-0			
9.967	9.967	(0.894)	202	311027	4.59755	230	80.00- 120.00	100.00
9.967	9.967	(0.894)	200	64717			0.00- 50.73	20.81

\$ 23 Terphenyl-d14 (SURR)					CAS #: 1718-51-0			
10.118	10.124	(0.908)	244	16207	0.37511	18.8	80.00- 120.00	100.00
10.118	10.124	(0.908)	122	1575			0.00- 38.43	9.72

25 Benzo[a]anthracene					CAS #: 56-55-3			
11.140	11.140	(0.999)	228	170840	2.96723	148	80.00- 120.00	100.00
11.140	11.140	(0.999)	229	32648			0.00- 50.51	19.11

* 26 Chrysene-d12					CAS #: 1719-03-5			
11.146	11.146	(1.000)	240	46480	0.80000		80.00- 120.00	100.00
11.146	11.146	(1.000)	120	3687			0.00- 37.78	7.93

27 Chrysene					CAS #: 218-01-9			
11.171	11.171	(1.002)	228	161984	2.48808	124	80.00- 120.00	100.00

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET	RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
27 Chrysene (continued)									
11.171	11.171	(1.002)	226	50619			0.00-	58.50	31.25

30 Benzo[b]fluoranthene CAS #: 205-99-2									
12.127	12.124	(0.973)	252	216555	3.20597	160	80.00-	120.00	100.00
12.131	12.124	(0.973)	253	46959			0.00-	51.26	21.68

31 Benzo[k]fluoranthene CAS #: 207-08-9									
12.146	12.146	(0.975)	252	87053	1.02985	51.6	80.00-	120.00	100.00(M)
12.150	12.146	(0.975)	253	22356			0.00-	53.27	25.68

32 Benzo[a]pyrene CAS #: 50-32-8									
12.410	12.402	(0.996)	252	144058	2.27227	114	80.00-	120.00	100.00
12.410	12.402	(0.996)	253	34596			0.00-	53.07	24.02

* 33 Perylene-d12 CAS #: 1520-96-3									
12.461	12.454	(1.000)	264	49577	0.80000		80.00-	120.00	100.00
12.458	12.454	(1.000)	260	10730			0.00-	52.55	21.64

34 Indeno[1,2,3-cd]pyrene CAS #: 193-39-5									
13.465	13.454	(1.081)	276	92881	1.18622	59.4	80.00-	120.00	100.00
13.461	13.454	(1.080)	138	15866			0.00-	49.54	17.08

35 Dibenz[a,h]anthracene CAS #: 53-70-3									
13.468	13.465	(1.081)	278	29547	0.47402	23.7	80.00-	120.00	100.00
13.465	13.465	(1.081)	139	3636			0.00-	43.05	12.31

36 Benzo[g,h,i]perylene CAS #: 191-24-2									
13.748	13.737	(1.103)	276	85664	1.24487	62.3	80.00-	120.00	100.00
13.745	13.737	(1.103)	138	14089			0.00-	46.66	16.45

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd01.i\S1050812.b\84305.D

Page 4

Date : 08-MAY-2012 14:30

Client ID: EPAFMC-SD-09

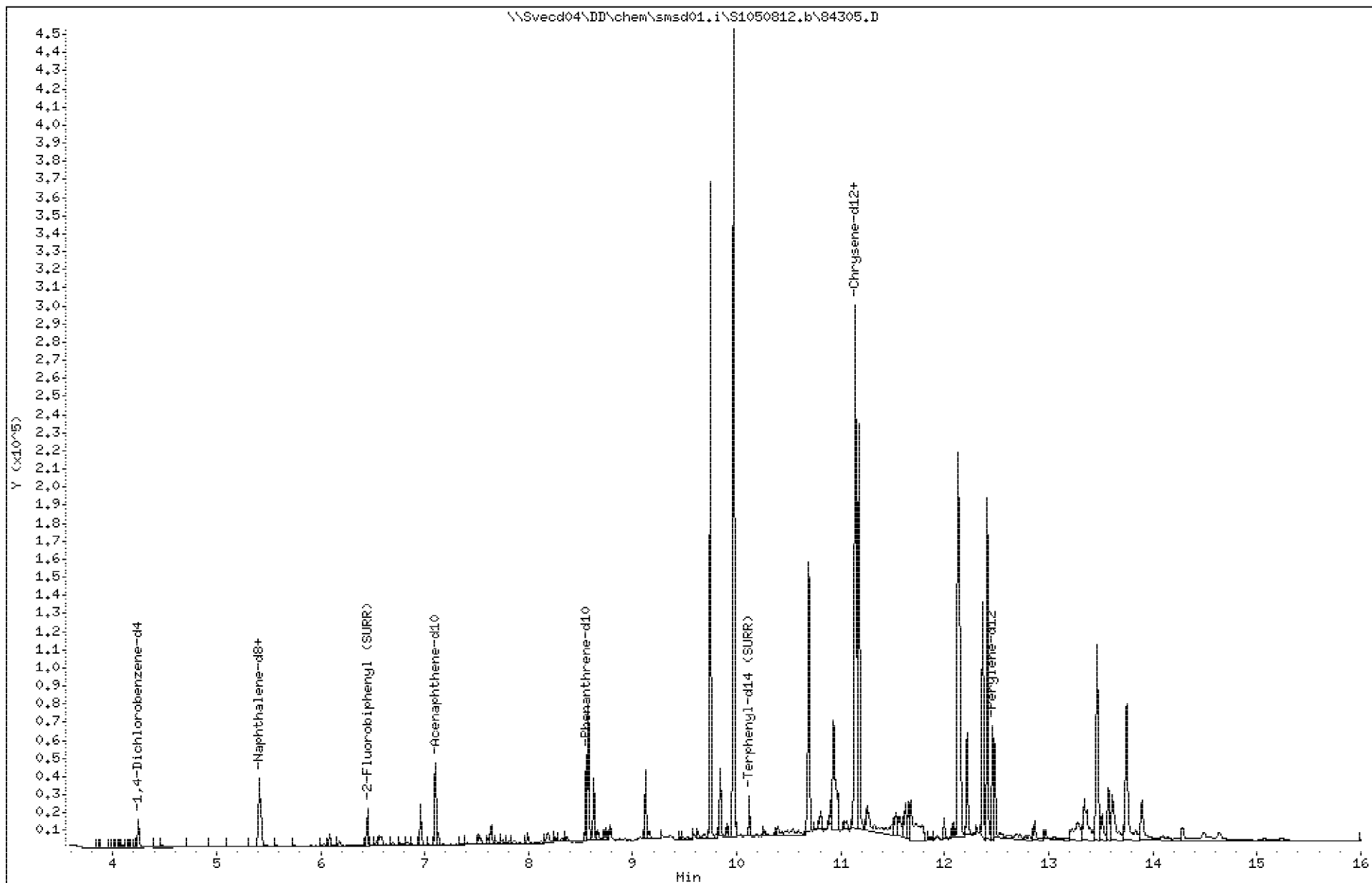
Instrument: smsd01.i

Sample Info: SIM350584305

Operator:

Column phase: HPMS-5

Column diameter: 0.25



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050812.b\84306.D
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 Inj Date : 08-MAY-2012 14:54 MS Autotune Date: 19-MAR-2012 07:15
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 Meth Date : 08-May-2012 12:02 mjacobs Quant Type: ISTD
 Cal Date : 07-MAY-2012 10:01 Cal File: SIMCAL6.D
 Als bottle: 17
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.690	Weight of sample extracted (g)
M	20.300	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.249	4.253 (1.000)		152	9138	0.80000		80.00- 120.00	100.00	
4.249	4.253 (1.000)		115	5308			32.50- 92.50	58.09	
* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406 (1.000)		136	32815	0.80000		80.00- 120.00	100.00	
5.406	5.406 (1.000)		68	1359			0.00- 34.01	4.14	
6 Naphthalene CAS #: 91-20-3									
5.430	5.429 (1.004)		128	38846	0.87726	42.8	80.00- 120.00	100.00	
5.430	5.429 (1.004)		129	4159			0.00- 40.52	10.71	
8 2-Methylnaphthalene CAS #: 91-57-6									
6.082	6.093 (1.125)		142	6607	0.23224	11.3	80.00- 120.00	100.00	
6.082	6.093 (1.125)		141	5570			56.36- 116.36	84.30	
9 1-Methylnaphthalene CAS #: 90-12-0									
6.177	6.177 (1.143)		142	2765	0.09387	4.6	80.00- 120.00	100.00	
6.177	6.177 (1.143)		141	2447			49.28- 109.28	88.50	
\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.450	6.449 (0.908)		172	19682	0.50139	24.5	80.00- 120.00	100.00	

CONCENTRATIONS								
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 10 2-Fluorobiphenyl (SURR) (continued)								
6.450	6.449	(0.908)	171	6937			4.13- 64.13	35.25

12 Acenaphthylene					CAS #: 208-96-8			
6.964	6.964	(0.980)	152	40343	0.81708	39.9	80.00- 120.00	100.00
6.964	6.964	(0.980)	151	8085			0.00- 49.78	20.04

* 13 Acenaphthene-d10					CAS #: 15067-26-2			
7.105	7.105	(1.000)	164	21734	0.80000		80.00- 120.00	100.00
7.096	7.105	(1.000)	162	20423			64.70- 124.70	93.97

14 Acenaphthene					CAS #: 83-32-9			
7.131	7.131	(1.004)	153	2806	0.08570	4.2	80.00- 120.00	100.00
7.131	7.131	(1.004)	154	2364			60.47- 120.47	84.25

16 Fluorene					CAS #: 86-73-7			
7.641	7.641	(1.076)	166	12690	0.34018	16.6	80.00- 120.00	100.00
7.641	7.641	(1.076)	165	12507			64.52- 124.52	98.56

* 17 Phenanthrene-d10					CAS #: 1517-22-2			
8.555	8.555	(1.000)	188	40826	0.80000		80.00- 120.00	100.00
8.549	8.555	(1.000)	94	2653			0.00- 36.97	6.50

18 Phenanthrene					CAS #: 85-01-8			
8.575	8.575	(1.002)	178	120533	2.16820	106	80.00- 120.00	100.00
8.575	8.575	(1.002)	179	18136			0.00- 45.15	15.05

19 Anthracene					CAS #: 120-12-7			
8.627	8.626	(1.008)	178	90116	2.14022	104	80.00- 120.00	100.00
8.627	8.626	(1.008)	179	14678			0.00- 45.16	16.29

21 Fluoranthene					CAS #: 206-44-0			
9.748	9.748	(1.139)	202	560221	8.65293	423	80.00- 120.00	100.00
9.741	9.748	(1.139)	101	44139			0.00- 38.08	7.88

22 Pyrene					CAS #: 129-00-0			
9.967	9.967	(0.894)	202	430182	6.40616	313	80.00- 120.00	100.00
9.967	9.967	(0.894)	200	89129			0.00- 50.73	20.72

\$ 23 Terphenyl-d14 (SURR)					CAS #: 1718-51-0			
10.118	10.124	(0.908)	244	14793	0.34493	16.8	80.00- 120.00	100.00
10.118	10.124	(0.908)	122	1418			0.00- 38.43	9.59

25 Benzo[a]anthracene					CAS #: 56-55-3			
11.140	11.140	(0.999)	228	348951	6.10581	298	80.00- 120.00	100.00
11.140	11.140	(0.999)	229	63191			0.00- 50.51	18.11

* 26 Chrysene-d12					CAS #: 1719-03-5			
11.147	11.146	(1.000)	240	46137	0.80000		80.00- 120.00	100.00
11.147	11.146	(1.000)	120	4122			0.00- 37.78	8.93

27 Chrysene					CAS #: 218-01-9			
11.172	11.171	(1.002)	228	393006	6.08146	297	80.00- 120.00	100.00

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET	RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
27 Chrysene (continued)									
11.172	11.171	(1.002)	226	121506			0.00-	58.50	30.92

30 Benzo[b]fluoranthene CAS #: 205-99-2									
12.128	12.124	(0.973)	252	404797	6.11163	298	80.00-	120.00	100.00
12.128	12.124	(0.973)	253	88254			0.00-	51.26	21.80

31 Benzo[k]fluoranthene CAS #: 207-08-9									
12.146	12.146	(0.975)	252	182200	2.19819	107	80.00-	120.00	100.00(M)
12.150	12.146	(0.975)	253	44680			0.00-	53.27	24.52

32 Benzo[a]pyrene CAS #: 50-32-8									
12.410	12.402	(0.996)	252	264453	4.25402	208	80.00-	120.00	100.00
12.410	12.402	(0.996)	253	64541			0.00-	53.07	24.41

* 33 Perylene-d12 CAS #: 1520-96-3									
12.462	12.454	(1.000)	264	48613	0.80000		80.00-	120.00	100.00
12.458	12.454	(1.000)	260	10605			0.00-	52.55	21.82

34 Indeno[1,2,3-cd]pyrene CAS #: 193-39-5									
13.465	13.454	(1.081)	276	173070	2.25418	110	80.00-	120.00	100.00
13.461	13.454	(1.080)	138	29394			0.00-	49.54	16.98

35 Dibenz[a,h]anthracene CAS #: 53-70-3									
13.469	13.465	(1.081)	278	57948	0.94809	46.3	80.00-	120.00	100.00
13.465	13.465	(1.081)	139	6460			0.00-	43.05	11.15

36 Benzo[g,h,i]perylene CAS #: 191-24-2									
13.748	13.737	(1.103)	276	153296	2.27188	111	80.00-	120.00	100.00
13.748	13.737	(1.103)	138	25601			0.00-	46.66	16.70

QC Flag Legend

M - Compound response manually integrated.

Date : 08-MAY-2012 14:54

Client ID: EPAFMC-SD-10

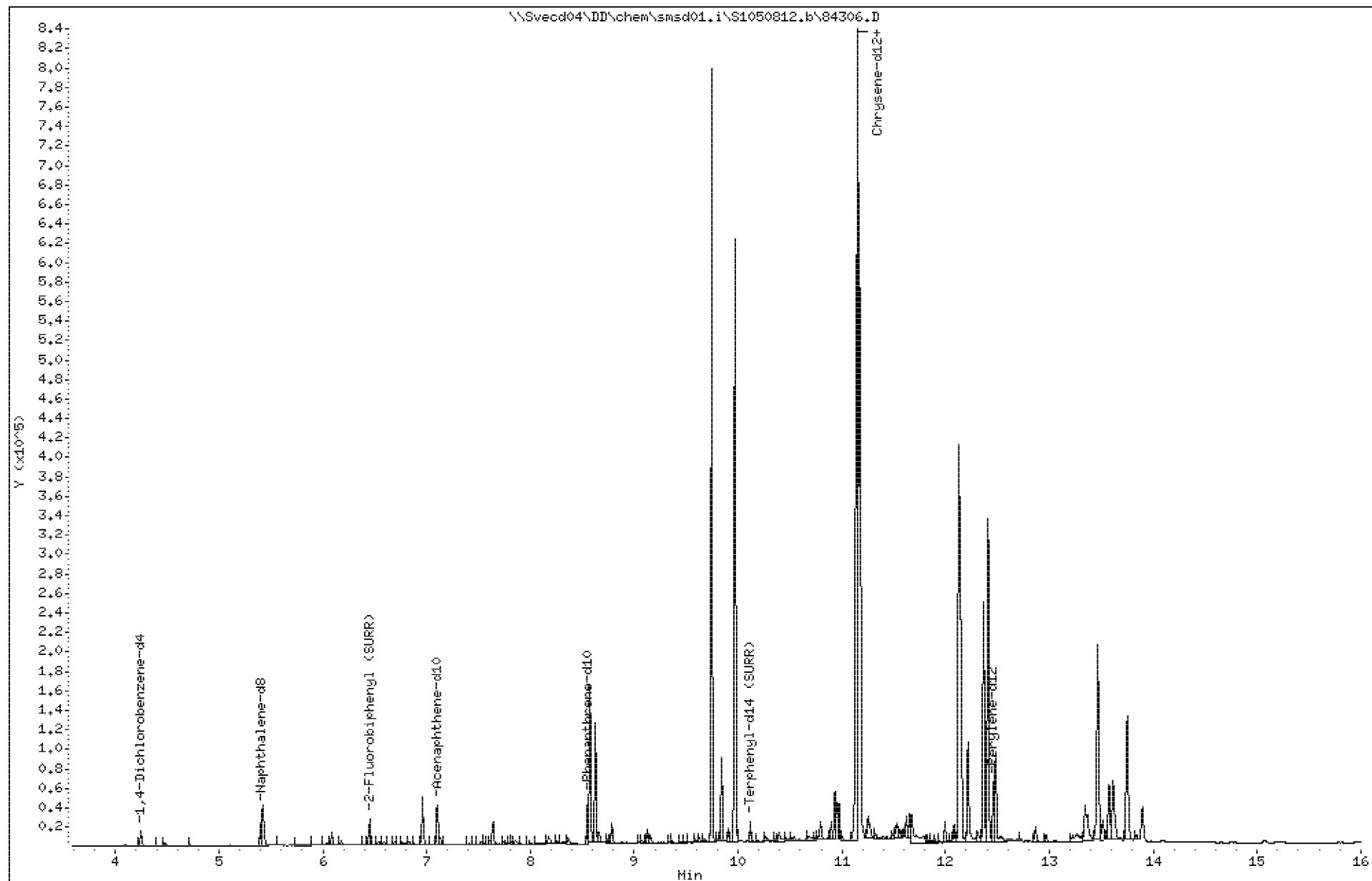
Sample Info: SIM350584306

Instrument: smsd01.i

Operator:

Column diameter: 0.25

Column phase: HPMS-5



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050812.b\84303D10.D
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 Inj Date : 08-MAY-2012 15:19 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : SIM350584303
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd01.i\S1050812.b\SIMBCSTR.m
 Meth Date : 08-May-2012 12:02 mjacobs Quant Type: ISTD
 Cal Date : 07-MAY-2012 10:01 Cal File: SIMCAL6.D
 Als bottle: 18 QC Sample: MSD
 Dil Factor: 10.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	10.000	Dilution Factor
Ws	25.140	Weight of sample extracted (g)
M	24.500	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.249	4.253 (1.000)		152	9165	0.80000		80.00- 120.00	100.00	
4.249	4.253 (1.000)		115	5369			32.50- 92.50	58.58	
* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406 (1.000)		136	34353	0.80000		80.00- 120.00	100.00	
5.406	5.406 (1.000)		68	1325			0.00- 34.01	3.86	
6 Naphthalene CAS #: 91-20-3									
5.429	5.429 (1.004)		128	9823	0.21190	112	80.00- 120.00	100.00(R)	
5.429	5.429 (1.004)		129	1052			0.00- 40.52	10.71	
8 2-Methylnaphthalene CAS #: 91-57-6									
6.082	6.093 (1.125)		142	3060	0.10274	54.1	80.00- 120.00	100.00(RM)	
6.082	6.093 (1.125)		141	2528			56.36- 116.36	82.60	
9 1-Methylnaphthalene CAS #: 90-12-0									
6.177	6.177 (1.143)		142	1993	0.06463	34.0	80.00- 120.00	100.00(M)	
6.177	6.177 (1.143)		141	1669			49.28- 109.28	83.71	
\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.449	6.449 (0.908)		172	1502	0.03744	19.7	80.00- 120.00	100.00	

CONCENTRATIONS								
RT	EXP RT	REL RT	MASS	ON-COL		FINAL	TARGET RANGE	RATIO
				RESPONSE	(ug/ml)	(ug/kg)		
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 10 2-Fluorobiphenyl (SURR) (continued)								
6.449	6.449	(0.908)	171	537			4.13- 64.13	35.75

12 Acenaphthylene						CAS #:	208-96-8	
6.964	6.964	(0.980)	152	16500	0.32699	172	80.00- 120.00	100.00(R)
6.964	6.964	(0.980)	151	3401			0.00- 49.78	20.61

* 13 Acenaphthene-d10						CAS #:	15067-26-2	
7.105	7.105	(1.000)	164	22212	0.80000		80.00- 120.00	100.00
7.105	7.105	(1.000)	162	21064			64.70- 124.70	94.83

14 Acenaphthene						CAS #:	83-32-9	
7.131	7.131	(1.004)	153	8503	0.25410	134	80.00- 120.00	100.00(R)
7.131	7.131	(1.004)	154	7596			60.47- 120.47	89.33

16 Fluorene						CAS #:	86-73-7	
7.641	7.641	(1.076)	166	18062	0.47377	250	80.00- 120.00	100.00(R)
7.641	7.641	(1.076)	165	17043			64.52- 124.52	94.36

* 17 Phenanthrene-d10						CAS #:	1517-22-2	
8.555	8.555	(1.000)	188	41149	0.80000		80.00- 120.00	100.00
8.549	8.555	(1.000)	94	2689			0.00- 36.97	6.53

18 Phenanthrene						CAS #:	85-01-8	
8.575	8.575	(1.002)	178	207275	3.69928	1950	80.00- 120.00	100.00(R)
8.575	8.575	(1.002)	179	31466			0.00- 45.15	15.18

19 Anthracene						CAS #:	120-12-7	
8.626	8.626	(1.008)	178	98113	2.31186	1220	80.00- 120.00	100.00(R)
8.626	8.626	(1.008)	179	16347			0.00- 45.16	16.66

21 Fluoranthene						CAS #:	206-44-0	
9.748	9.748	(1.139)	202	542622	8.31532	4380	80.00- 120.00	100.00(R)
9.741	9.748	(1.139)	101	41820			0.00- 38.08	7.71

22 Pyrene						CAS #:	129-00-0	
9.967	9.967	(0.894)	202	398016	5.76557	3040	80.00- 120.00	100.00(R)
9.967	9.967	(0.894)	200	82957			0.00- 50.73	20.84

\$ 23 Terphenyl-d14 (SURR)						CAS #:	1718-51-0	
10.118	10.124	(0.908)	244	1898	0.04305	22.7	80.00- 120.00	100.00
10.118	10.124	(0.908)	122	310			0.00- 38.43	16.33

25 Benzo[a]anthracene						CAS #:	56-55-3	
11.134	11.140	(0.999)	228	264974	4.51002	2380	80.00- 120.00	100.00(R)
11.134	11.140	(0.999)	229	52423			0.00- 50.51	19.78

* 26 Chrysene-d12						CAS #:	1719-03-5	
11.146	11.146	(1.000)	240	47430	0.80000		80.00- 120.00	100.00
11.140	11.146	(1.000)	120	3742			0.00- 37.78	7.89

27 Chrysene						CAS #:	218-01-9	
11.171	11.171	(1.002)	228	243989	3.67262	1930	80.00- 120.00	100.00(R)

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET	RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
27 Chrysene (continued)									
11.171	11.171	(1.002)	226	71739			0.00-	58.50	29.40

30 Benzo[b]fluoranthene CAS #: 205-99-2									
12.127	12.124	(0.973)	252	302570	4.53666	2390	80.00-	120.00	100.00(R)
12.127	12.124	(0.973)	253	65274			0.00-	51.26	21.57

31 Benzo[k]fluoranthene CAS #: 207-08-9									
12.146	12.146	(0.975)	252	116534	1.39624	736	80.00-	120.00	100.00(RM)
12.146	12.146	(0.975)	253	28019			0.00-	53.27	24.04

32 Benzo[a]pyrene CAS #: 50-32-8									
12.410	12.402	(0.996)	252	207707	3.31812	1750	80.00-	120.00	100.00(R)
12.410	12.402	(0.996)	253	49453			0.00-	53.07	23.81

* 33 Perylene-d12 CAS #: 1520-96-3									
12.458	12.454	(1.000)	264	48951	0.80000		80.00-	120.00	100.00
12.458	12.454	(1.000)	260	10675			0.00-	52.55	21.81

34 Indeno[1,2,3-cd]pyrene CAS #: 193-39-5									
13.461	13.454	(1.081)	276	131346	1.69893	895	80.00-	120.00	100.00(R)
13.461	13.454	(1.081)	138	21063			0.00-	49.54	16.04

35 Dibenz[a,h]anthracene CAS #: 53-70-3									
13.468	13.465	(1.081)	278	40476	0.65765	346	80.00-	120.00	100.00(R)
13.465	13.465	(1.081)	139	4612			0.00-	43.05	11.39

36 Benzo[g,h,i]perylene CAS #: 191-24-2									
13.745	13.737	(1.103)	276	120203	1.76914	932	80.00-	120.00	100.00(R)
13.745	13.737	(1.103)	138	20163			0.00-	46.66	16.77

QC Flag Legend

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

Data File: \\Svecd04\DD\chem\smsd01.i\S1050812.b\84303D10.D

Page 4

Date : 08-MAY-2012 15:19

Client ID: EPAFMC-SD-07SD

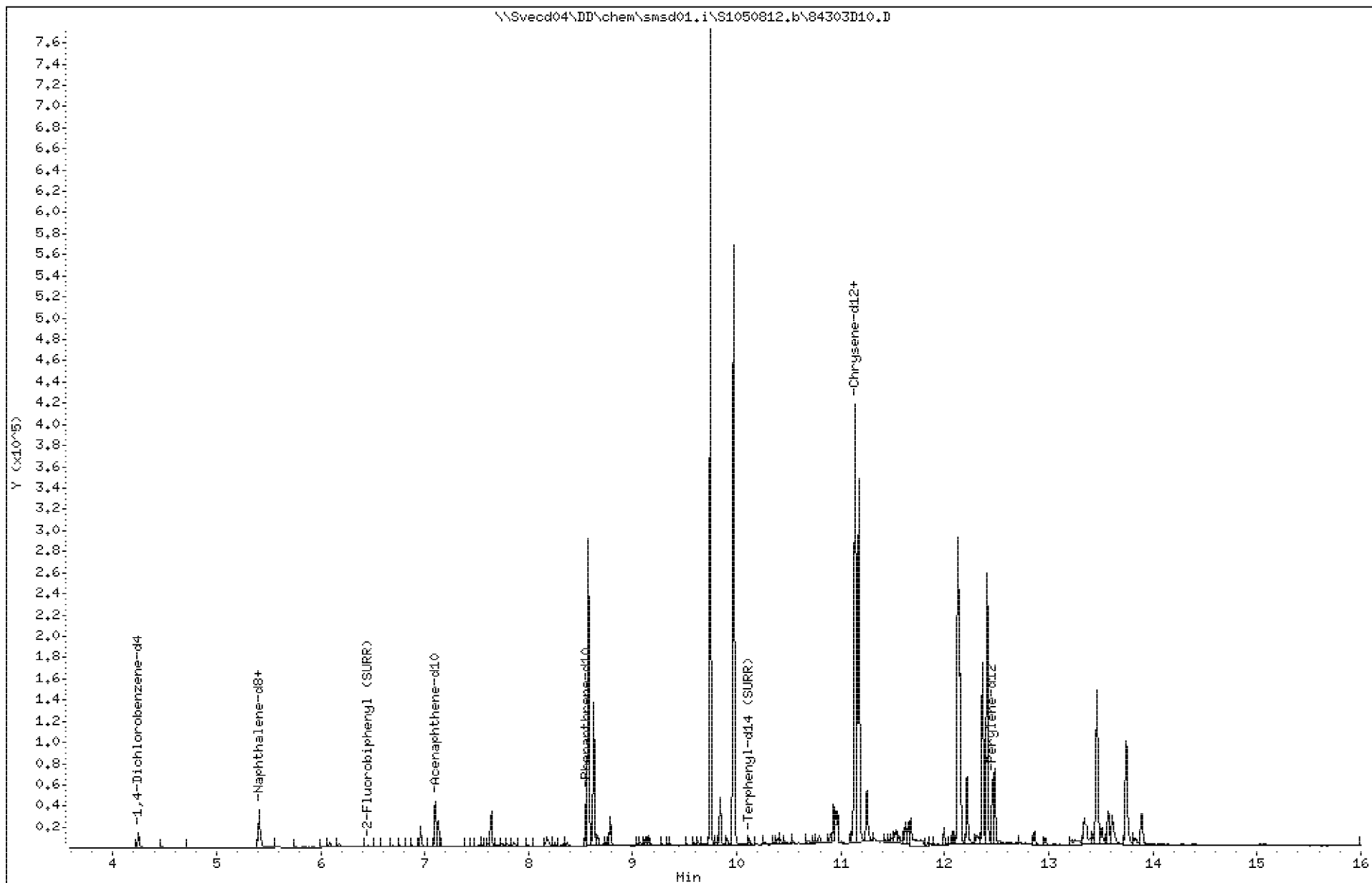
Instrument: smsd01.i

Sample Info: SIM350584303

Operator:

Column phase: HPMS-5

Column diameter: 0.25



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050812.b\84307.D
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 Inj Date : 08-MAY-2012 15:43 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : SIM350584307
 Misc Info :
 Comment :
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 Meth Date : 08-May-2012 12:02 mjacobs Quant Type: ISTD
 Cal Date : 07-MAY-2012 10:01 Cal File: SIMCAL6.D
 Als bottle: 19
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.150	Weight of sample extracted (g)
M	21.600	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.249	4.253 (1.000)		152	8917	0.80000		80.00- 120.00	100.00	
4.249	4.253 (1.000)		115	5220			32.50- 92.50	58.54	
* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406 (1.000)		136	32189	0.80000		80.00- 120.00	100.00	
5.406	5.406 (1.000)		68	1521			0.00- 34.01	4.73	
6 Naphthalene CAS #: 91-20-3									
5.430	5.429 (1.004)		128	59057	1.35963	69.0	80.00- 120.00	100.00	
5.430	5.429 (1.004)		129	6372			0.00- 40.52	10.79	
8 2-Methylnaphthalene CAS #: 91-57-6									
6.082	6.093 (1.125)		142	5446	0.19515	9.9	80.00- 120.00	100.00	
6.082	6.093 (1.125)		141	4678			56.36- 116.36	85.90	
9 1-Methylnaphthalene CAS #: 90-12-0									
6.177	6.177 (1.143)		142	3035	0.10504	5.3	80.00- 120.00	100.00	
6.177	6.177 (1.143)		141	2717			49.28- 109.28	89.52	
\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.450	6.449 (0.908)		172	24939	0.65360	33.1	80.00- 120.00	100.00(R)	

CONCENTRATIONS								
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 10 2-Fluorobiphenyl (SURR) (continued)								
6.450	6.449	(0.908)	171	8786			4.13- 64.13	35.23

12 Acenaphthylene					CAS #: 208-96-8			
6.964	6.964	(0.980)	152	19703	0.41053	20.8	80.00- 120.00	100.00
6.955	6.964	(0.979)	151	4005			0.00- 49.78	20.33

* 13 Acenaphthene-d10					CAS #: 15067-26-2			
7.105	7.105	(1.000)	164	21126	0.80000		80.00- 120.00	100.00
7.096	7.105	(1.000)	162	19836			64.70- 124.70	93.89

14 Acenaphthene					CAS #: 83-32-9			
7.131	7.131	(1.004)	153	4838	0.15201	7.7	80.00- 120.00	100.00
7.131	7.131	(1.004)	154	4207			60.47- 120.47	86.96

16 Fluorene					CAS #: 86-73-7			
7.641	7.641	(1.076)	166	10969	0.30251	15.3	80.00- 120.00	100.00
7.641	7.641	(1.076)	165	10600			64.52- 124.52	96.64

* 17 Phenanthrene-d10					CAS #: 1517-22-2			
8.555	8.555	(1.000)	188	39346	0.80000		80.00- 120.00	100.00
8.549	8.555	(1.000)	94	2547			0.00- 36.97	6.47

18 Phenanthrene					CAS #: 85-01-8			
8.575	8.575	(1.002)	178	64216	1.19859	60.8	80.00- 120.00	100.00
8.575	8.575	(1.002)	179	9575			0.00- 45.15	14.91

19 Anthracene					CAS #: 120-12-7			
8.627	8.626	(1.008)	178	28434	0.70070	35.5	80.00- 120.00	100.00
8.627	8.626	(1.008)	179	5379			0.00- 45.16	18.92

21 Fluoranthene					CAS #: 206-44-0			
9.748	9.748	(1.139)	202	227418	3.64473	185	80.00- 120.00	100.00
9.742	9.748	(1.139)	101	17155			0.00- 38.08	7.54

22 Pyrene					CAS #: 129-00-0			
9.967	9.967	(0.894)	202	173234	2.62893	133	80.00- 120.00	100.00
9.967	9.967	(0.894)	200	35503			0.00- 50.73	20.49

\$ 23 Terphenyl-d14 (SURR)					CAS #: 1718-51-0			
10.118	10.124	(0.908)	244	15861	0.37688	19.1	80.00- 120.00	100.00
10.118	10.124	(0.908)	122	1444			0.00- 38.43	9.10

25 Benzo[a]anthracene					CAS #: 56-55-3			
11.134	11.140	(0.999)	228	118037	2.10473	107	80.00- 120.00	100.00(M)
11.134	11.140	(0.999)	229	22649			0.00- 50.51	19.19

* 26 Chrysene-d12					CAS #: 1719-03-5			
11.147	11.146	(1.000)	240	45274	0.80000		80.00- 120.00	100.00
11.140	11.146	(1.000)	120	3458			0.00- 37.78	7.64

27 Chrysene					CAS #: 218-01-9			
11.172	11.171	(1.002)	228	111181	1.75323	88.9	80.00- 120.00	100.00

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	
27 Chrysene (continued)									
11.172	11.171	(1.002)	226	33258			0.00- 58.50	29.91	

30 Benzo[b]fluoranthene CAS #: 205-99-2									
12.128	12.124	(0.973)	252	168337	2.65624	135	80.00- 120.00	100.00	
12.128	12.124	(0.973)	253	36269			0.00- 51.26	21.55	

31 Benzo[k]fluoranthene CAS #: 207-08-9									
12.139	12.146	(0.974)	252	71994	0.90778	46.0	80.00- 120.00	100.00(M)	
12.146	12.146	(0.975)	253	16978			0.00- 53.27	23.58	

32 Benzo[a]pyrene CAS #: 50-32-8									
12.406	12.402	(0.996)	252	108347	1.82153	92.4	80.00- 120.00	100.00	
12.406	12.402	(0.996)	253	25770			0.00- 53.07	23.78	

* 33 Perylene-d12 CAS #: 1520-96-3									
12.458	12.454	(1.000)	264	46514	0.80000		80.00- 120.00	100.00	
12.458	12.454	(1.000)	260	10189			0.00- 52.55	21.91	

34 Indeno[1,2,3-cd]pyrene CAS #: 193-39-5									
13.461	13.454	(1.081)	276	75035	1.02141	51.8	80.00- 120.00	100.00	
13.461	13.454	(1.081)	138	11901			0.00- 49.54	15.86	

35 Dibenz[a,h]anthracene CAS #: 53-70-3									
13.465	13.465	(1.081)	278	22735	0.38875	19.7	80.00- 120.00	100.00	
13.465	13.465	(1.081)	139	3035			0.00- 43.05	13.35	

36 Benzo[g,h,i]perylene CAS #: 191-24-2									
13.745	13.737	(1.103)	276	71015	1.09995	55.8	80.00- 120.00	100.00	
13.741	13.737	(1.103)	138	11238			0.00- 46.66	15.82	

QC Flag Legend

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

Data File: \\Svecd04\DD\chem\smsd01.i\S1050812.b\84307.D

Page 4

Date : 08-MAY-2012 15:43

Client ID: EPAFMC-SD-11

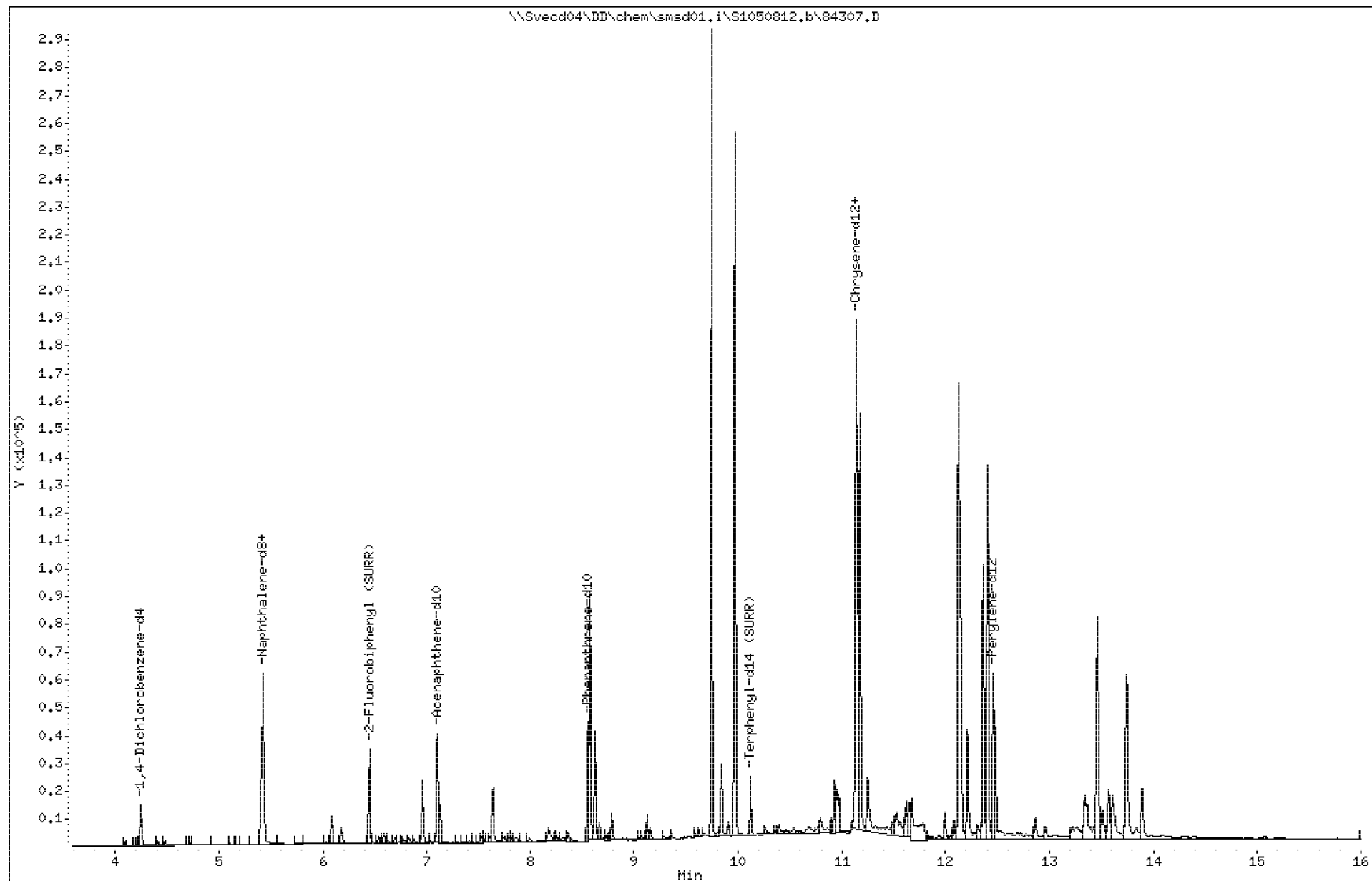
Instrument: smsd01.i

Sample Info: SIM350584307

Operator:

Column phase: HPMS-5

Column diameter: 0.25



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050812.b\84308.D
 Lab Smp Id: 350584308 Client Smp ID: EPAFMC-SD-12
 Inj Date : 08-MAY-2012 16:07 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : SIM350584308
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd01.i\S1050812.b\SIMBCSTR.m
 Meth Date : 08-May-2012 12:02 mjacobs Quant Type: ISTD
 Cal Date : 07-MAY-2012 10:01 Cal File: SIMCAL6.D
 Als bottle: 20
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.290	Weight of sample extracted (g)
M	15.600	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.249	4.253 (1.000)		152	9317	0.80000		80.00- 120.00	100.00	
4.249	4.253 (1.000)		115	5602			32.50- 92.50	60.13	
* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406 (1.000)		136	33597	0.80000		80.00- 120.00	100.00	
5.406	5.406 (1.000)		68	2036			0.00- 34.01	6.06	
6 Naphthalene CAS #: 91-20-3									
5.422	5.429 (1.003)		128	626632	13.8219	648	80.00- 120.00	100.00(A)	
5.429	5.429 (1.004)		129	68607			0.00- 40.52	10.95	
8 2-Methylnaphthalene CAS #: 91-57-6									
6.082	6.093 (1.125)		142	100410	3.44729	162	80.00- 120.00	100.00	
6.082	6.093 (1.125)		141	84890			56.36- 116.36	84.54	
9 1-Methylnaphthalene CAS #: 90-12-0									
6.177	6.177 (1.143)		142	42331	1.40368	65.8	80.00- 120.00	100.00	
6.177	6.177 (1.143)		141	37944			49.28- 109.28	89.64	
\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.450	6.449 (0.908)		172	13436	0.34048	16.0	80.00- 120.00	100.00(R)	

CONCENTRATIONS								
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 10 2-Fluorobiphenyl (SURR) (continued)								
6.450	6.449	(0.908)	171	4747			4.13- 64.13	35.33

12 Acenaphthylene					CAS #: 208-96-8			
6.955	6.964	(0.979)	152	126986	2.55834	120	80.00- 120.00	100.00
6.955	6.964	(0.979)	151	25163			0.00- 49.78	19.82

* 13 Acenaphthene-d10					CAS #: 15067-26-2			
7.105	7.105	(1.000)	164	21849	0.80000		80.00- 120.00	100.00
7.096	7.105	(1.000)	162	19528			64.70- 124.70	89.38

14 Acenaphthene					CAS #: 83-32-9			
7.131	7.131	(1.004)	153	25340	0.76984	36.1	80.00- 120.00	100.00
7.131	7.131	(1.004)	154	21060			60.47- 120.47	83.11

16 Fluorene					CAS #: 86-73-7			
7.633	7.641	(1.074)	166	92468	2.46575	116	80.00- 120.00	100.00(M)
7.633	7.641	(1.074)	165	87971			64.52- 124.52	95.14

* 17 Phenanthrene-d10					CAS #: 1517-22-2			
8.555	8.555	(1.000)	188	38606	0.80000		80.00- 120.00	100.00
8.549	8.555	(1.000)	94	2495			0.00- 36.97	6.46

18 Phenanthrene					CAS #: 85-01-8			
8.575	8.575	(1.002)	178	473613	9.00945	422	80.00- 120.00	100.00
8.575	8.575	(1.002)	179	73223			0.00- 45.15	15.46

19 Anthracene					CAS #: 120-12-7			
8.627	8.626	(1.008)	178	229140	5.75492	270	80.00- 120.00	100.00
8.627	8.626	(1.008)	179	47100			0.00- 45.16	20.56

21 Fluoranthene					CAS #: 206-44-0			
9.748	9.748	(1.139)	202	1021519	16.6852	782	80.00- 120.00	100.00(A)
9.741	9.748	(1.139)	101	78995			0.00- 38.08	7.73

22 Pyrene					CAS #: 129-00-0			
9.967	9.967	(0.894)	202	783184	10.0990	473	80.00- 120.00	100.00(A)
9.967	9.967	(0.894)	200	164473			0.00- 50.73	21.00

\$ 23 Terphenyl-d14 (SURR)					CAS #: 1718-51-0			
10.118	10.124	(0.908)	244	17797	0.35933	16.8	80.00- 120.00	100.00
10.118	10.124	(0.908)	122	2256			0.00- 38.43	12.68

25 Benzo[a]anthracene					CAS #: 56-55-3			
11.140	11.140	(0.999)	228	596030	9.03058	423	80.00- 120.00	100.00
11.140	11.140	(0.999)	229	118173			0.00- 50.51	19.83

* 26 Chrysene-d12					CAS #: 1719-03-5			
11.146	11.146	(1.000)	240	53282	0.80000		80.00- 120.00	100.00(Q)
11.140	11.146	(1.000)	120	28867			0.00- 37.78	54.18

27 Chrysene					CAS #: 218-01-9			
11.172	11.171	(1.002)	228	591053	7.91962	371	80.00- 120.00	100.00

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	
27 Chrysene (continued)									
11.172	11.171	(1.002)	226	175051			0.00- 58.50	29.62	

30 Benzo[b]fluoranthene CAS #: 205-99-2									
12.128	12.124	(0.973)	252	735407	11.0715	519	80.00- 120.00	100.00(A)	
12.131	12.124	(0.973)	253	162684			0.00- 51.26	22.12	

31 Benzo[k]fluoranthene CAS #: 207-08-9									
12.146	12.146	(0.975)	252	318365	3.83002	179	80.00- 120.00	100.00(M)	
12.150	12.146	(0.975)	253	75503			0.00- 53.27	23.72	

32 Benzo[a]pyrene CAS #: 50-32-8									
12.410	12.402	(0.996)	252	479904	7.69777	361	80.00- 120.00	100.00	
12.410	12.402	(0.996)	253	120721			0.00- 53.07	25.16	

* 33 Perylene-d12 CAS #: 1520-96-3									
12.462	12.454	(1.000)	264	48752	0.80000		80.00- 120.00	100.00	
12.458	12.454	(1.000)	260	10515			0.00- 52.55	21.57	

34 Indeno[1,2,3-cd]pyrene CAS #: 193-39-5									
13.465	13.454	(1.081)	276	338766	4.39973	206	80.00- 120.00	100.00	
13.465	13.454	(1.081)	138	55976			0.00- 49.54	16.52	

35 Dibenz[a,h]anthracene CAS #: 53-70-3									
13.469	13.465	(1.081)	278	97798	1.59551	74.7	80.00- 120.00	100.00	
13.469	13.465	(1.081)	139	10845			0.00- 43.05	11.09	

36 Benzo[g,h,i]perylene CAS #: 191-24-2									
13.748	13.737	(1.103)	276	310112	4.58283	215	80.00- 120.00	100.00	
13.748	13.737	(1.103)	138	50345			0.00- 46.66	16.23	

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd01.i\S1050812.b\84308.D

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Date : 08-MAY-2012 16:07

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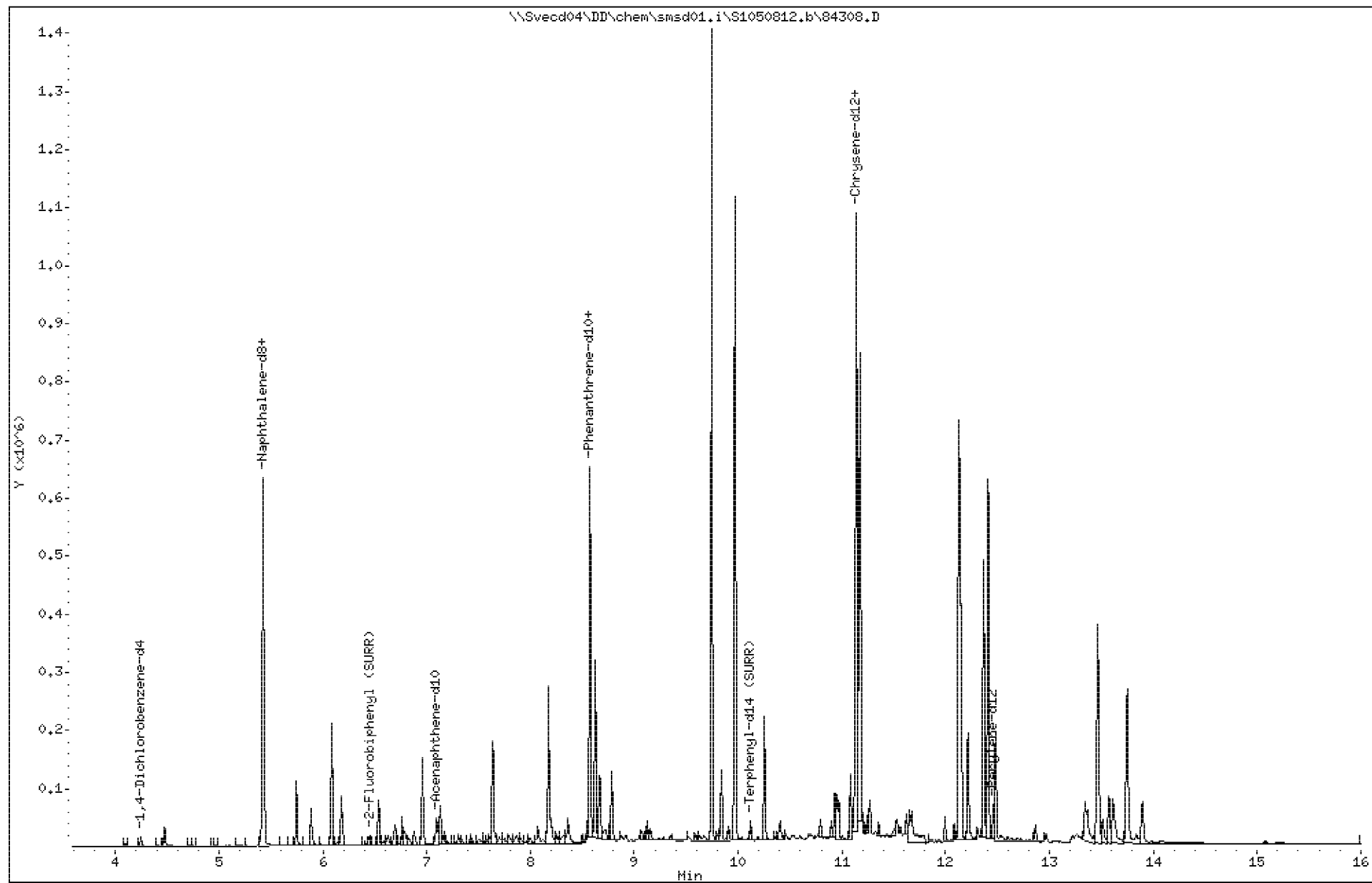
Instrument: smsd01.i

Sample Info: SIM350584308

Operator:

Column phase: HPMS-5

Column diameter: 0.25



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050812.b\84309.D
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 Inj Date : 08-MAY-2012 16:31 MS Autotune Date: 19-MAR-2012 07:15
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 Smp Info : SIM350584309
 Misc Info :
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 Cal Date : 07-MAY-2012 10:01 Cal File: SIMCAL6.D
 Als bottle: 21
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.390	Weight of sample extracted (g)
M	22.000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.253	4.253	(1.000)	152	8697	0.80000		80.00- 120.00	100.00	
4.249	4.253	(1.000)	115	5120			32.50- 92.50	58.87	
* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406	(1.000)	136	31427	0.80000		80.00- 120.00	100.00	
5.406	5.406	(1.000)	68	1282			0.00- 34.01	4.08	
6 Naphthalene CAS #: 91-20-3									
5.429	5.429	(1.004)	128	100458	2.36885	120	80.00- 120.00	100.00	
5.429	5.429	(1.004)	129	10815			0.00- 40.52	10.77	
8 2-Methylnaphthalene CAS #: 91-57-6									
6.082	6.093	(1.125)	142	18865	0.69240	35.0	80.00- 120.00	100.00	
6.082	6.093	(1.125)	141	16178			56.36- 116.36	85.76	
9 1-Methylnaphthalene CAS #: 90-12-0									
6.177	6.177	(1.143)	142	9050	0.32082	16.2	80.00- 120.00	100.00	
6.177	6.177	(1.143)	141	8016			49.28- 109.28	88.57	
\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.450	6.449	(0.908)	172	11245	0.30906	15.6	80.00- 120.00	100.00(R)	

CONCENTRATIONS								
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 10 2-Fluorobiphenyl (SURR) (continued)								
6.450	6.449	(0.908)	171	3962			4.13- 64.13	35.23

12 Acenaphthylene					CAS #: 208-96-8			
6.964	6.964	(0.980)	152	62267	1.36058	68.7	80.00- 120.00	100.00
6.955	6.964	(0.979)	151	12388			0.00- 49.78	19.89

* 13 Acenaphthene-d10					CAS #: 15067-26-2			
7.105	7.105	(1.000)	164	20145	0.80000		80.00- 120.00	100.00
7.105	7.105	(1.000)	162	18671			64.70- 124.70	92.68

14 Acenaphthene					CAS #: 83-32-9			
7.131	7.131	(1.004)	153	13729	0.45237	22.8	80.00- 120.00	100.00
7.131	7.131	(1.004)	154	12195			60.47- 120.47	88.83

16 Fluorene					CAS #: 86-73-7			
7.641	7.641	(1.076)	166	23966	0.69313	35.0	80.00- 120.00	100.00
7.641	7.641	(1.076)	165	23783			64.52- 124.52	99.24

* 17 Phenanthrene-d10					CAS #: 1517-22-2			
8.555	8.555	(1.000)	188	38316	0.80000		80.00- 120.00	100.00
8.549	8.555	(1.000)	94	2535			0.00- 36.97	6.62

18 Phenanthrene					CAS #: 85-01-8			
8.575	8.575	(1.002)	178	285663	5.47524	276	80.00- 120.00	100.00
8.575	8.575	(1.002)	179	43514			0.00- 45.15	15.23

19 Anthracene					CAS #: 120-12-7			
8.626	8.626	(1.008)	178	112209	2.83949	143	80.00- 120.00	100.00
8.626	8.626	(1.008)	179	20917			0.00- 45.16	18.64

21 Fluoranthene					CAS #: 206-44-0			
9.748	9.748	(1.139)	202	995356	16.3809	827	80.00- 120.00	100.00(A)
9.741	9.748	(1.139)	101	76891			0.00- 38.08	7.72

22 Pyrene					CAS #: 129-00-0			
9.967	9.967	(0.894)	202	762244	12.0848	610	80.00- 120.00	100.00(A)
9.967	9.967	(0.894)	200	160344			0.00- 50.73	21.04

\$ 23 Terphenyl-d14 (SURR)					CAS #: 1718-51-0			
10.118	10.124	(0.908)	244	14335	0.35586	18.0	80.00- 120.00	100.00
10.118	10.124	(0.908)	122	1518			0.00- 38.43	10.59

25 Benzo[a]anthracene					CAS #: 56-55-3			
11.140	11.140	(0.999)	228	551107	10.2663	518	80.00- 120.00	100.00(AM)
11.140	11.140	(0.999)	229	95609			0.00- 50.51	17.35

* 26 Chrysene-d12					CAS #: 1719-03-5			
11.146	11.146	(1.000)	240	43336	0.80000		80.00- 120.00	100.00
11.146	11.146	(1.000)	120	3518			0.00- 37.78	8.12

27 Chrysene					CAS #: 218-01-9			
11.172	11.171	(1.002)	228	543253	8.94976	452	80.00- 120.00	100.00

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET	RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
27 Chrysene (continued)									
11.172	11.171	(1.002)	226	168195			0.00-	58.50	30.96

30 Benzo[b]fluoranthene CAS #: 205-99-2									
12.128	12.124	(0.973)	252	750918	11.7869	595	80.00-	120.00	100.00(AM)
12.131	12.124	(0.974)	253	182718			0.00-	51.26	24.33

31 Benzo[k]fluoranthene CAS #: 207-08-9									
12.146	12.146	(0.975)	252	313579	3.93324	199	80.00-	120.00	100.00(M)
12.139	12.146	(0.974)	253	92590			0.00-	53.27	29.53

32 Benzo[a]pyrene CAS #: 50-32-8									
12.410	12.402	(0.996)	252	481967	8.06037	407	80.00-	120.00	100.00
12.410	12.402	(0.996)	253	114631			0.00-	53.07	23.78

* 33 Perylene-d12 CAS #: 1520-96-3									
12.458	12.454	(1.000)	264	46759	0.80000		80.00-	120.00	100.00
12.458	12.454	(1.000)	260	10043			0.00-	52.55	21.48

34 Indeno[1,2,3-cd]pyrene CAS #: 193-39-5									
13.465	13.454	(1.081)	276	338419	4.58256	231	80.00-	120.00	100.00
13.461	13.454	(1.081)	138	56371			0.00-	49.54	16.66

35 Dibenz[a,h]anthracene CAS #: 53-70-3									
13.469	13.465	(1.081)	278	98289	1.67186	84.4	80.00-	120.00	100.00
13.465	13.465	(1.081)	139	12532			0.00-	43.05	12.75

36 Benzo[g,h,i]perylene CAS #: 191-24-2									
13.748	13.737	(1.104)	276	320129	4.93250	249	80.00-	120.00	100.00
13.745	13.737	(1.103)	138	50654			0.00-	46.66	15.82

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd01.i\S1050812.b\84309.D

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Date : 08-MAY-2012 16:31

Client ID: EPAFMC-SD-13

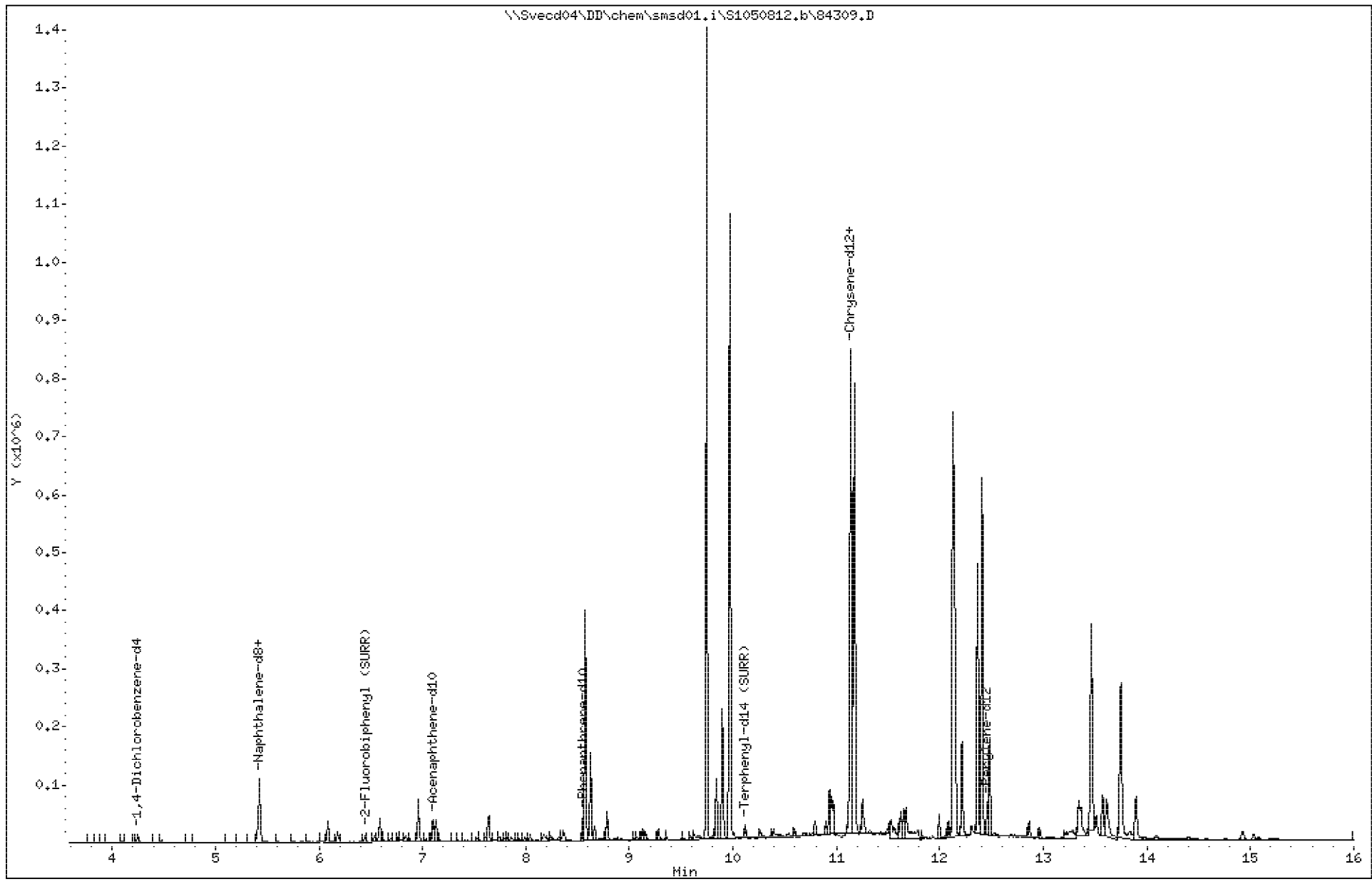
Instrument: smsd01.i

Sample Info: SIM350584309

Operator:

Column phase: HPMS-5

Column diameter: 0.25



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050812.b\84310.D
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 Smp Info : SIM350584310
 Misc Info :
 Comment :
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 Meth Date : 08-May-2012 12:02 mjacobs Quant Type: ISTD
 Cal Date : 07-MAY-2012 10:01 Cal File: SIMCAL6.D
 Als bottle: 22
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.820	Weight of sample extracted (g)
M	19.400	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.253	4.253 (1.000)		152	8730	0.80000		80.00- 120.00	100.00	
4.249	4.253 (1.000)		115	5097			32.50- 92.50	58.38	
* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406 (1.000)		136	32898	0.80000		80.00- 120.00	100.00	
5.406	5.406 (1.000)		68	1281			0.00- 34.01	3.89	
6 Naphthalene CAS #: 91-20-3									
5.429	5.429 (1.004)		128	12857	0.28962	13.9	80.00- 120.00	100.00	
5.429	5.429 (1.004)		129	1401			0.00- 40.52	10.90	
8 2-Methylnaphthalene CAS #: 91-57-6									
6.082	6.093 (1.125)		142	2427	0.08509	4.1	80.00- 120.00	100.00	
6.082	6.093 (1.125)		141	2084			56.36- 116.36	85.87	
9 1-Methylnaphthalene CAS #: 90-12-0									
6.177	6.177 (1.143)		142	1269	0.04297	2.1	80.00- 120.00	100.00	
6.177	6.177 (1.143)		141	1129			49.28- 109.28	88.97	
\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.450	6.449 (0.908)		172	9485	0.25370	12.2	80.00- 120.00	100.00(R)	

CONCENTRATIONS								
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 10 2-Fluorobiphenyl (SURR) (continued)								
6.450	6.449	(0.908)	171	3360			4.13- 64.13	35.42

12 Acenaphthylene					CAS #: 208-96-8			
6.964	6.964	(0.980)	152	5299	0.11268	5.4	80.00- 120.00	100.00
6.964	6.964	(0.980)	151	1045			0.00- 49.78	19.72

* 13 Acenaphthene-d10					CAS #: 15067-26-2			
7.105	7.105	(1.000)	164	20700	0.80000		80.00- 120.00	100.00
7.096	7.105	(1.000)	162	19628			64.70- 124.70	94.82

14 Acenaphthene					CAS #: 83-32-9			
7.131	7.131	(1.004)	153	1513	0.04852	2.3	80.00- 120.00	100.00
7.131	7.131	(1.004)	154	1396			60.47- 120.47	92.27

16 Fluorene					CAS #: 86-73-7			
7.641	7.641	(1.076)	166	3014	0.08483	4.1	80.00- 120.00	100.00
7.641	7.641	(1.076)	165	2968			64.52- 124.52	98.47

* 17 Phenanthrene-d10					CAS #: 1517-22-2			
8.555	8.555	(1.000)	188	38620	0.80000		80.00- 120.00	100.00
8.549	8.555	(1.000)	94	2578			0.00- 36.97	6.68

18 Phenanthrene					CAS #: 85-01-8			
8.575	8.575	(1.002)	178	22632	0.43037	20.7	80.00- 120.00	100.00
8.575	8.575	(1.002)	179	3417			0.00- 45.15	15.10

19 Anthracene					CAS #: 120-12-7			
8.627	8.626	(1.008)	178	6322	0.15872	7.6	80.00- 120.00	100.00
8.627	8.626	(1.008)	179	1472			0.00- 45.16	23.28

21 Fluoranthene					CAS #: 206-44-0			
9.748	9.748	(1.139)	202	68986	1.12639	54.1	80.00- 120.00	100.00
9.741	9.748	(1.139)	101	5222			0.00- 38.08	7.57

22 Pyrene					CAS #: 129-00-0			
9.967	9.967	(0.894)	202	63199	0.95271	45.8	80.00- 120.00	100.00
9.967	9.967	(0.894)	200	13135			0.00- 50.73	20.78

\$ 23 Terphenyl-d14 (SURR)					CAS #: 1718-51-0			
10.118	10.124	(0.908)	244	12239	0.28889	13.9	80.00- 120.00	100.00
10.118	10.124	(0.908)	122	1157			0.00- 38.43	9.45

25 Benzo[a]anthracene					CAS #: 56-55-3			
11.134	11.140	(0.999)	228	42736	0.75697	36.4	80.00- 120.00	100.00
11.134	11.140	(0.999)	229	8119			0.00- 50.51	19.00

* 26 Chrysene-d12					CAS #: 1719-03-5			
11.146	11.146	(1.000)	240	45577	0.80000		80.00- 120.00	100.00
11.140	11.146	(1.000)	120	3522			0.00- 37.78	7.73

27 Chrysene					CAS #: 218-01-9			
11.172	11.171	(1.002)	228	44596	0.69857	33.6	80.00- 120.00	100.00

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET	RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
27 Chrysene (continued)									
11.172	11.171	(1.002)	226	13167			0.00-	58.50	29.53

30 Benzo[b]fluoranthene CAS #: 205-99-2									
12.128	12.124	(0.973)	252	72338	1.11400	53.5	80.00-	120.00	100.00
12.128	12.124	(0.973)	253	15597			0.00-	51.26	21.56

31 Benzo[k]fluoranthene CAS #: 207-08-9									
12.146	12.146	(0.975)	252	25346	0.31191	15.0	80.00-	120.00	100.00(M)
12.139	12.146	(0.974)	253	7362			0.00-	53.27	29.05

32 Benzo[a]pyrene CAS #: 50-32-8									
12.406	12.402	(0.996)	252	40862	0.67045	32.2	80.00-	120.00	100.00
12.406	12.402	(0.996)	253	9867			0.00-	53.07	24.15

* 33 Perylene-d12 CAS #: 1520-96-3									
12.458	12.454	(1.000)	264	47660	0.80000		80.00-	120.00	100.00
12.458	12.454	(1.000)	260	10158			0.00-	52.55	21.31

34 Indeno[1,2,3-cd]pyrene CAS #: 193-39-5									
13.461	13.454	(1.081)	276	29969	0.39814	19.1	80.00-	120.00	100.00
13.457	13.454	(1.080)	138	5490			0.00-	49.54	18.32

35 Dibenz[a,h]anthracene CAS #: 53-70-3									
13.465	13.465	(1.081)	278	9269	0.15468	7.4	80.00-	120.00	100.00
13.454	13.465	(1.080)	139	2429			0.00-	43.05	26.21

36 Benzo[g,h,i]perylene CAS #: 191-24-2									
13.745	13.737	(1.103)	276	29560	0.44685	21.5	80.00-	120.00	100.00
13.741	13.737	(1.103)	138	4470			0.00-	46.66	15.12

QC Flag Legend

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

Data File: \\Svecd04\DD\chem\smsd01.i\S1050812.b\84310.D

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Date : 08-MAY-2012 16:55

Client ID: EPAFMC-SD-14

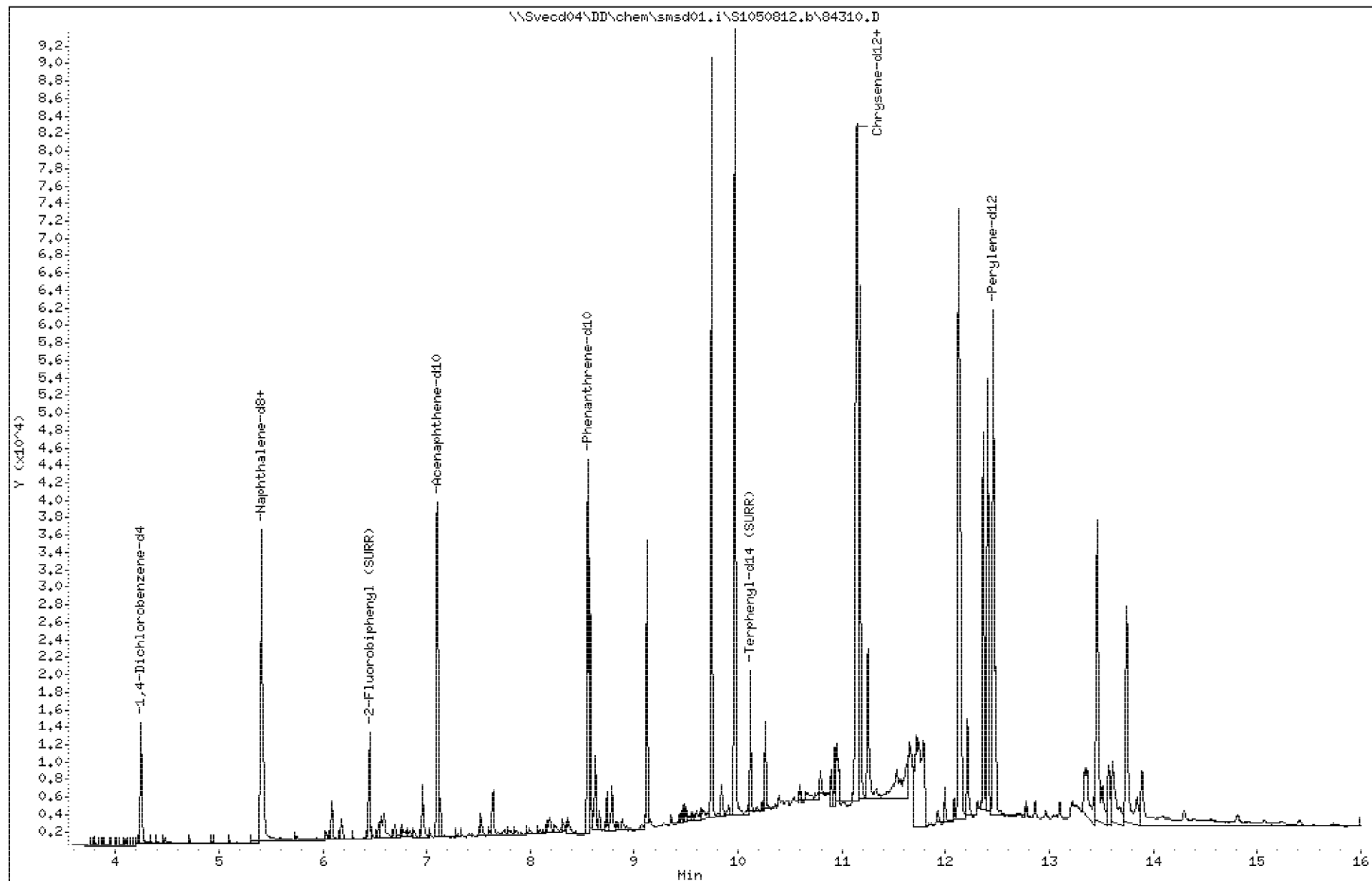
Instrument: smsd01.i

Sample Info: SIM350584310

Operator:

Column phase: HPMS-5

Column diameter: 0.25



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050812.b\84311.D
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 Inj Date : 08-MAY-2012 17:19 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : SIM350584311
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd01.i\S1050812.b\SIMBCSTR.m
 Meth Date : 08-May-2012 12:02 mjacobs Quant Type: ISTD
 Cal Date : 07-MAY-2012 10:01 Cal File: SIMCAL6.D
 Als bottle: 23
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.090	Weight of sample extracted (g)
M	17.800	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.249	4.253 (1.000)		152	9377	0.80000		80.00- 120.00	100.00	
4.249	4.253 (1.000)		115	5504			32.50- 92.50	58.70	
* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406 (1.000)		136	35133	0.80000		80.00- 120.00	100.00	
5.406	5.406 (1.000)		68	1316			0.00- 34.01	3.75	
6 Naphthalene CAS #: 91-20-3									
5.430	5.429 (1.004)		128	8569	0.18075	8.8	80.00- 120.00	100.00	
5.430	5.429 (1.004)		129	842			0.00- 40.52	9.83	
8 2-Methylnaphthalene CAS #: 91-57-6									
6.082	6.093 (1.125)		142	2670	0.08766	4.2	80.00- 120.00	100.00(M)	
6.082	6.093 (1.125)		141	2189			56.36- 116.36	81.97	
9 1-Methylnaphthalene CAS #: 90-12-0									
6.177	6.177 (1.143)		142	1245	0.03948	1.9	80.00- 120.00	100.00	
6.177	6.177 (1.143)		141	1063			49.28- 109.28	85.38	
\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.450	6.449 (0.908)		172	10258	0.25512	12.4	80.00- 120.00	100.00(R)	

CONCENTRATIONS								
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 10 2-Fluorobiphenyl (SURR) (continued)								
6.450	6.449	(0.908)	171	3574			4.13- 64.13	34.84

12 Acenaphthylene					CAS #: 208-96-8			
6.964	6.964	(0.980)	152	4155	0.08216	4.0	80.00- 120.00	100.00
6.964	6.964	(0.980)	151	893			0.00- 49.78	21.49

* 13 Acenaphthene-d10					CAS #: 15067-26-2			
7.105	7.105	(1.000)	164	22262	0.80000		80.00- 120.00	100.00
7.096	7.105	(1.000)	162	20902			64.70- 124.70	93.89

14 Acenaphthene					CAS #: 83-32-9			
7.131	7.131	(1.004)	153	965	0.02877	1.4	80.00- 120.00	100.00
7.131	7.131	(1.004)	154	883			60.47- 120.47	91.50

16 Fluorene					CAS #: 86-73-7			
7.641	7.641	(1.076)	166	1681	0.04399	2.1	80.00- 120.00	100.00
7.641	7.641	(1.076)	165	1562			64.52- 124.52	92.92

* 17 Phenanthrene-d10					CAS #: 1517-22-2			
8.555	8.555	(1.000)	188	41480	0.80000		80.00- 120.00	100.00
8.549	8.555	(1.000)	94	2705			0.00- 36.97	6.52

18 Phenanthrene					CAS #: 85-01-8			
8.575	8.575	(1.002)	178	22264	0.39418	19.1	80.00- 120.00	100.00
8.575	8.575	(1.002)	179	3295			0.00- 45.15	14.80

19 Anthracene					CAS #: 120-12-7			
8.627	8.626	(1.008)	178	4273	0.09988	4.8	80.00- 120.00	100.00
8.627	8.626	(1.008)	179	432			0.00- 45.16	10.11

21 Fluoranthene					CAS #: 206-44-0			
9.748	9.748	(1.139)	202	70081	1.06537	51.6	80.00- 120.00	100.00
9.742	9.748	(1.139)	101	5544			0.00- 38.08	7.91

22 Pyrene					CAS #: 129-00-0			
9.967	9.967	(0.894)	202	63365	0.90195	43.7	80.00- 120.00	100.00
9.967	9.967	(0.894)	200	13167			0.00- 50.73	20.78

\$ 23 Terphenyl-d14 (SURR)					CAS #: 1718-51-0			
10.118	10.124	(0.908)	244	11861	0.26436	12.8	80.00- 120.00	100.00
10.118	10.124	(0.908)	122	1108			0.00- 38.43	9.34

25 Benzo[a]anthracene					CAS #: 56-55-3			
11.134	11.140	(0.999)	228	34610	0.57886	28.1	80.00- 120.00	100.00
11.134	11.140	(0.999)	229	5699			0.00- 50.51	16.47

* 26 Chrysene-d12					CAS #: 1719-03-5			
11.147	11.146	(1.000)	240	48268	0.80000		80.00- 120.00	100.00
11.140	11.146	(1.000)	120	3871			0.00- 37.78	8.02

27 Chrysene					CAS #: 218-01-9			
11.172	11.171	(1.002)	228	42225	0.62455	30.3	80.00- 120.00	100.00

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	
27 Chrysene (continued)									
11.172	11.171	(1.002)	226	12413			0.00- 58.50	29.40	

30 Benzo[b]fluoranthene CAS #: 205-99-2									
12.124	12.124	(0.973)	252	70274	1.03049	50.0	80.00- 120.00	100.00	
12.124	12.124	(0.973)	253	15274			0.00- 51.26	21.73	

31 Benzo[k]fluoranthene CAS #: 207-08-9									
12.142	12.146	(0.975)	252	26847	0.31459	15.2	80.00- 120.00	100.00(M)	
12.142	12.146	(0.975)	253	6889			0.00- 53.27	25.66	

32 Benzo[a]pyrene CAS #: 50-32-8									
12.406	12.402	(0.996)	252	39963	0.62437	30.3	80.00- 120.00	100.00	
12.406	12.402	(0.996)	253	9426			0.00- 53.07	23.59	

* 33 Perylene-d12 CAS #: 1520-96-3									
12.458	12.454	(1.000)	264	50052	0.80000		80.00- 120.00	100.00	
12.454	12.454	(1.000)	260	10822			0.00- 52.55	21.62	

34 Indeno[1,2,3-cd]pyrene CAS #: 193-39-5									
13.457	13.454	(1.080)	276	35996	0.45536	22.1	80.00- 120.00	100.00	
13.454	13.454	(1.080)	138	5772			0.00- 49.54	16.04	

35 Dibenz[a,h]anthracene CAS #: 53-70-3									
13.461	13.465	(1.081)	278	9087	0.14440	7.0	80.00- 120.00	100.00(M)	
13.454	13.465	(1.080)	139	1199			0.00- 43.05	13.19	

36 Benzo[g,h,i]perylene CAS #: 191-24-2									
13.741	13.737	(1.103)	276	37092	0.53391	25.9	80.00- 120.00	100.00	
13.737	13.737	(1.103)	138	6001			0.00- 46.66	16.18	

QC Flag Legend

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

Data File: \\Svecd04\DD\chem\smsd01.i\S1050812.b\84311.D

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Date : 08-MAY-2012 17:19

Client ID: EPAFMC-SD-15

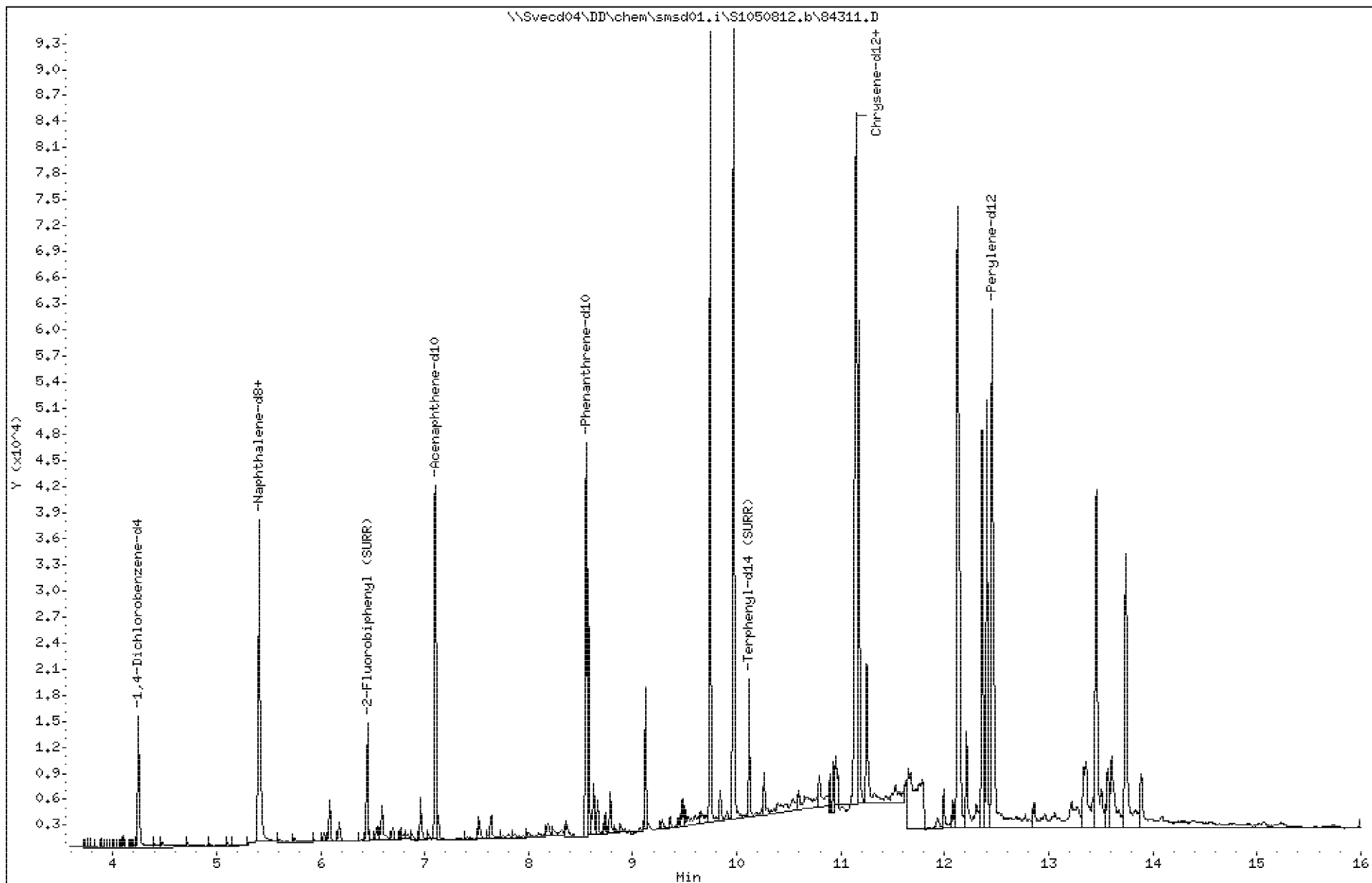
Instrument: smsd01.i

Sample Info: SIM350584311

Operator:

Column phase: HPMS-5

Column diameter: 0.25



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050812.b\84312.D
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 Inj Date : 08-MAY-2012 17:44 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : SIM350584312
 Misc Info :
 Comment :
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 Meth Date : 08-May-2012 12:02 mjacobs Quant Type: ISTD
 Cal Date : 07-MAY-2012 10:01 Cal File: SIMCAL6.D
 Als bottle: 24
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.570	Weight of sample extracted (g)
M	19.900	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.249	4.253 (1.000)		152	9097	0.80000		80.00- 120.00	100.00	
4.249	4.253 (1.000)		115	5427			32.50- 92.50	59.66	
* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406 (1.000)		136	32766	0.80000		80.00- 120.00	100.00	
5.406	5.406 (1.000)		68	1937			0.00- 34.01	5.91	
6 Naphthalene CAS #: 91-20-3									
5.429	5.429 (1.004)		128	454847	10.2872	502	80.00- 120.00	100.00(A)	
5.429	5.429 (1.004)		129	49553			0.00- 40.52	10.89	
8 2-Methylnaphthalene CAS #: 91-57-6									
6.082	6.093 (1.125)		142	67231	2.36672	116	80.00- 120.00	100.00	
6.082	6.093 (1.125)		141	57458			56.36- 116.36	85.46	
9 1-Methylnaphthalene CAS #: 90-12-0									
6.177	6.177 (1.143)		142	29443	1.00108	48.9	80.00- 120.00	100.00	
6.177	6.177 (1.143)		141	26162			49.28- 109.28	88.86	
\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.449	6.449 (0.908)		172	12354	0.32696	16.0	80.00- 120.00	100.00(R)	

CONCENTRATIONS								
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 10 2-Fluorobiphenyl (SURR) (continued)								
6.449	6.449	(0.908)	171	4369			4.13- 64.13	35.37

12 Acenaphthylene					CAS #: 208-96-8			
6.964	6.964	(0.980)	152	91864	1.93294	94.4	80.00- 120.00	100.00
6.955	6.964	(0.979)	151	17657			0.00- 49.78	19.22

* 13 Acenaphthene-d10					CAS #: 15067-26-2			
7.105	7.105	(1.000)	164	20920	0.80000		80.00- 120.00	100.00
7.096	7.105	(1.000)	162	19500			64.70- 124.70	93.21

14 Acenaphthene					CAS #: 83-32-9			
7.131	7.131	(1.004)	153	25881	0.82119	40.1	80.00- 120.00	100.00
7.131	7.131	(1.004)	154	22661			60.47- 120.47	87.56

16 Fluorene					CAS #: 86-73-7			
7.641	7.641	(1.076)	166	72574	2.02120	98.7	80.00- 120.00	100.00
7.632	7.641	(1.074)	165	71786			64.52- 124.52	98.91

* 17 Phenanthrene-d10					CAS #: 1517-22-2			
8.555	8.555	(1.000)	188	39120	0.80000		80.00- 120.00	100.00
8.549	8.555	(1.000)	94	2566			0.00- 36.97	6.56

18 Phenanthrene					CAS #: 85-01-8			
8.575	8.575	(1.002)	178	391797	7.35516	359	80.00- 120.00	100.00
8.575	8.575	(1.002)	179	60308			0.00- 45.15	15.39

19 Anthracene					CAS #: 120-12-7			
8.626	8.626	(1.008)	178	164924	4.08769	200	80.00- 120.00	100.00
8.626	8.626	(1.008)	179	36630			0.00- 45.16	22.21

21 Fluoranthene					CAS #: 206-44-0			
9.748	9.748	(1.139)	202	861915	13.8933	678	80.00- 120.00	100.00(A)
9.741	9.748	(1.139)	101	67125			0.00- 38.08	7.79

22 Pyrene					CAS #: 129-00-0			
9.967	9.967	(0.894)	202	674421	10.2856	502	80.00- 120.00	100.00(A)
9.967	9.967	(0.894)	200	141130			0.00- 50.73	20.93

\$ 23 Terphenyl-d14 (SURR)					CAS #: 1718-51-0			
10.118	10.124	(0.908)	244	15012	0.35848	17.5	80.00- 120.00	100.00
10.118	10.124	(0.908)	122	1738			0.00- 38.43	11.58

25 Benzo[a]anthracene					CAS #: 56-55-3			
11.140	11.140	(0.999)	228	454670	8.14760	398	80.00- 120.00	100.00
11.140	11.140	(0.999)	229	92046			0.00- 50.51	20.24

* 26 Chrysene-d12					CAS #: 1719-03-5			
11.146	11.146	(1.000)	240	45050	0.80000		80.00- 120.00	100.00
11.146	11.146	(1.000)	120	3562			0.00- 37.78	7.91

27 Chrysene					CAS #: 218-01-9			
11.171	11.171	(1.002)	228	444385	7.04244	344	80.00- 120.00	100.00

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET	RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
27 Chrysene (continued)									
11.171	11.171	(1.002)	226	137960			0.00-	58.50	31.05

30 Benzo[b]fluoranthene CAS #: 205-99-2									
12.127	12.124	(0.973)	252	642400	9.83142	480	80.00-	120.00	100.00
12.127	12.124	(0.973)	253	155993			0.00-	51.26	24.28

31 Benzo[k]fluoranthene CAS #: 207-08-9									
12.142	12.146	(0.975)	252	277953	3.39922	166	80.00-	120.00	100.00(M)
12.146	12.146	(0.975)	253	66387			0.00-	53.27	23.88

32 Benzo[a]pyrene CAS #: 50-32-8									
12.406	12.402	(0.996)	252	430481	7.01933	343	80.00-	120.00	100.00
12.406	12.402	(0.996)	253	106433			0.00-	53.07	24.72

* 33 Perylene-d12 CAS #: 1520-96-3									
12.458	12.454	(1.000)	264	47958	0.80000		80.00-	120.00	100.00
12.454	12.454	(1.000)	260	10383			0.00-	52.55	21.65

34 Indeno[1,2,3-cd]pyrene CAS #: 193-39-5									
13.457	13.454	(1.080)	276	304106	4.01498	196	80.00-	120.00	100.00
13.457	13.454	(1.080)	138	50103			0.00-	49.54	16.48

35 Dibenz[a,h]anthracene CAS #: 53-70-3									
13.461	13.465	(1.081)	278	90367	1.49868	73.2	80.00-	120.00	100.00
13.461	13.465	(1.081)	139	10851			0.00-	43.05	12.01

36 Benzo[g,h,i]perylene CAS #: 191-24-2									
13.741	13.737	(1.103)	276	278438	4.18287	204	80.00-	120.00	100.00
13.741	13.737	(1.103)	138	45493			0.00-	46.66	16.34

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd01.i\S1050812.b\84312.D

Page 4

Date : 08-MAY-2012 17:44

Client ID: EPAFMC-SD-16

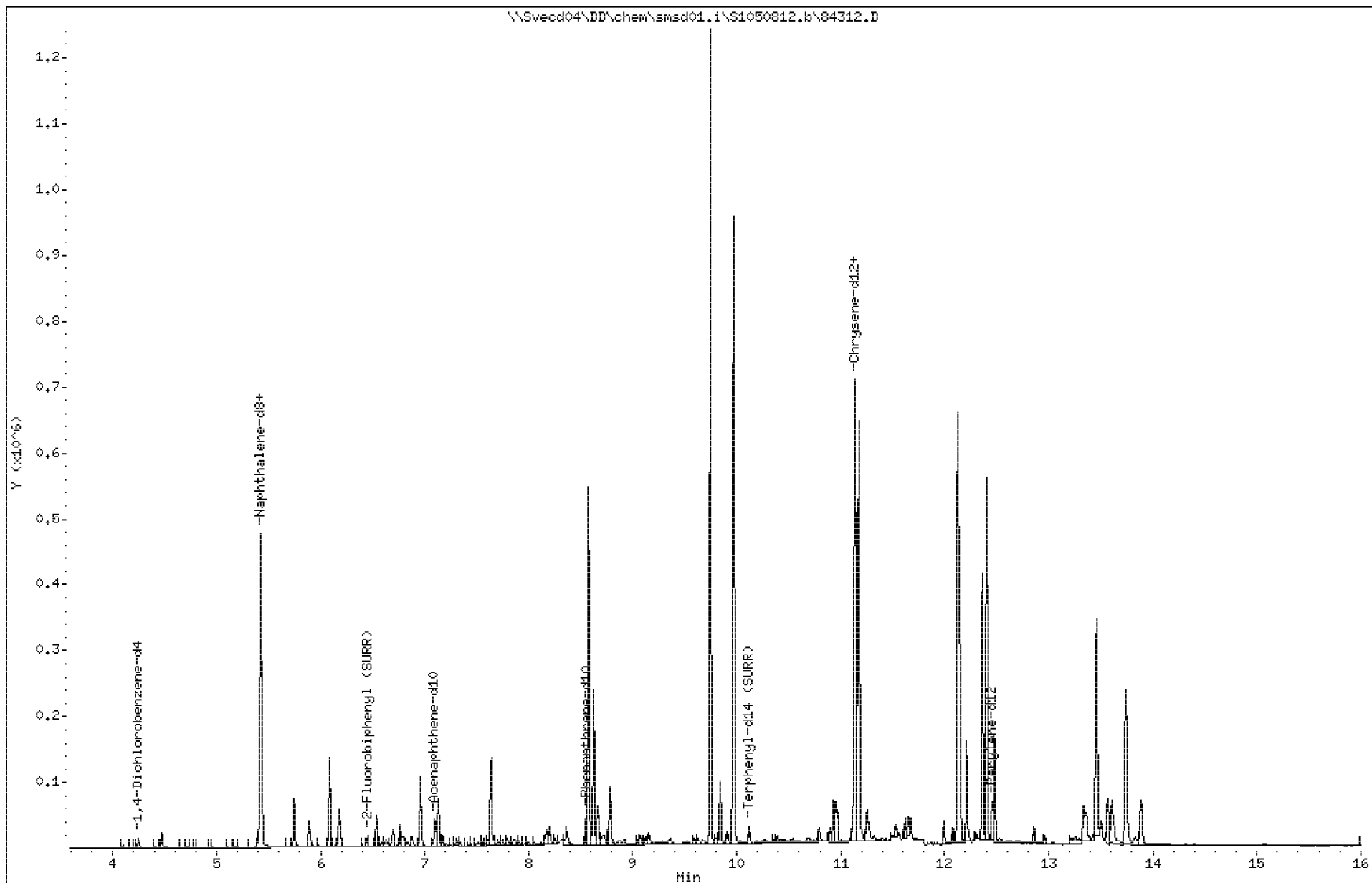
Instrument: smsd01.i

Sample Info: SIM350584312

Operator:

Column phase: HPMS-5

Column diameter: 0.25



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050912.b\DFTPP1.D
 Lab Smp Id: 45777 Client Smp ID: DFTPP1
 Inj Date : 09-MAY-2012 07:06 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : 45777
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd01.i\S1050912.b\DoDTUN.m
 Meth Date : 09-May-2012 11:47 mjacobs Quant Type: ISTD
 Cal Date : 23-MAR-2009 02:58 Cal File: AP9CAL1.D
 Als bottle: 100 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: SVECD04

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL	FINAL	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 dftpp				CAS #: 5074-71-5					
7.328	7.610	(0.000)	198	319296			0.00- 100.00	100.00	
7.328	7.610	(0.000)	51	108656			10.00- 80.00	34.03	
7.328	7.610	(0.000)	68	252			0.00- 2.00	0.20	
7.328	7.610	(0.000)	69	124192			0.00- 0.00	38.90	
7.328	7.610	(0.000)	70	907			0.00- 2.00	0.73	
7.328	7.610	(0.000)	127	153216			10.00- 80.00	47.99	
7.328	7.610	(0.000)	197	0	0.0	0.0	0.00- 2.00	0.00	
7.328	7.610	(0.000)	199	21144			5.00- 9.00	6.62	
7.328	7.610	(0.000)	275	93232			10.00- 60.00	29.20	
7.328	7.610	(0.000)	365	11737			1.00- 0.00	3.68	
7.328	7.610	(0.000)	441	41456			0.01- 24.00	15.78	
7.328	7.610	(0.000)	442	262656			50.00- 0.00	82.26	
7.328	7.610	(0.000)	443	50480			15.00- 24.00	19.22	

Data File: \\Svecd04\DD\chem\smsd01.i\S1050912.b\DFTPP1.D

Date : 09-MAY-2012 07:06

Client ID: DFTPP1

Instrument: smsd01.i

Sample Info: 45777

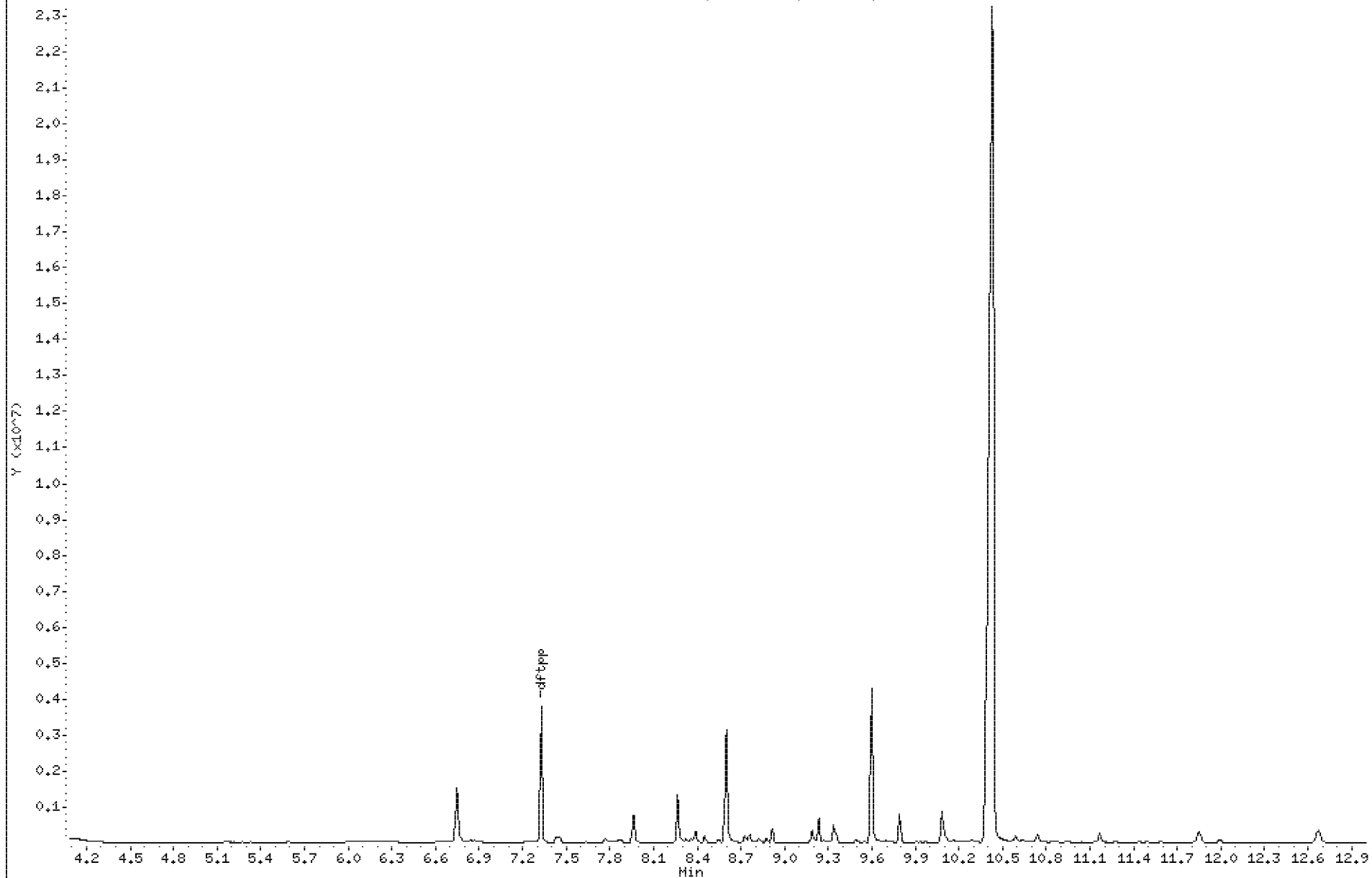
Volume Injected (uL): 1.0

Operator:

Column phase:

Column diameter: 2.00

\\Svecd04\DD\chem\smsd01.i\S1050912.b\DFTPP1.D



Data File: \\Svecd04\DD\chem\smsd01.i\S1050912.b\DFTPP1.D

Date : 09-MAY-2012 07:06

Client ID: DFTPP1

Instrument: smsd01.i

Sample Info: 45777

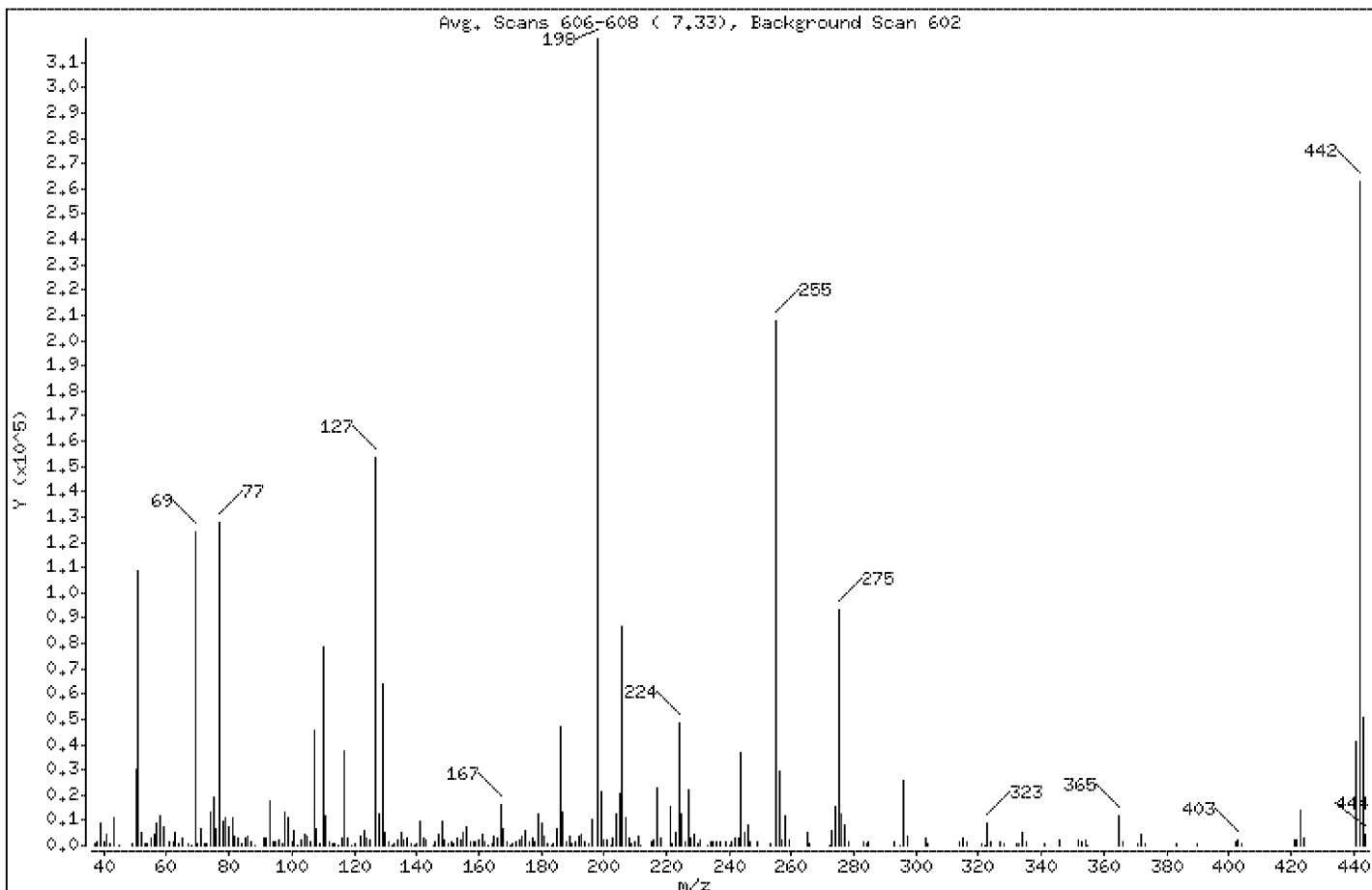
Volume Injected (uL): 1.0

Operator:

Column phase:

Column diameter: 2.00

1 dfpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	34.03
68	Less than 2.00% of mass 69	0.08 (0.20)
69	Mass 69 relative abundance	38.90
70	Less than 2.00% of mass 69	0.28 (0.73)
127	10.00 - 80.00% of mass 198	47.99
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.62
275	10.00 - 60.00% of mass 198	29.20
365	Greater than 1.00% of mass 198	3.68
441	0.01 - 24.00% of mass 442	12.98 (15.78)
442	Greater than 50.00% of mass 198	82.26
443	15.00 - 24.00% of mass 442	15.81 (19.22)

Data File: \\Svecd04\DD\chem\smsd01.i\S1050912.b\DFTPP1.D

Date : 09-MAY-2012 07:06

Client ID: DFTPP1

Instrument: smsd01.i

Sample Info: 45777

Volume Injected (uL): 1.0

Operator:

Column phase:

Column diameter: 2.00

Data File: DFTPP1.D

Spectrum: Avg. Scans 606-608 (7.33), Background Scan 602

Location of Maximum: 198.00

Number of points: 255

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	481	109.00	818	176.00	1766	247.00	1817
38.00	1454	110.00	78392	177.00	3099	249.00	1407
39.00	8650	111.00	11936	178.00	1293	253.00	677
40.00	1199	112.00	1826	179.00	12598	255.00	207360
41.00	4300	113.00	730	180.00	8506	256.00	29000
42.00	988	114.00	456	181.00	3745	257.00	2403
43.00	10723	115.00	275	182.00	713	258.00	11979
45.00	228	116.00	2728	183.00	338	259.00	1934
49.00	880	117.00	37200	184.00	1055	265.00	5024
50.00	30112	118.00	2572	185.00	6317	266.00	735
51.00	108656	119.00	217	186.00	47272	272.00	298
52.00	4987	120.00	649	187.00	13242	273.00	5791
53.00	998	122.00	3313	188.00	1502	274.00	15315
54.00	870	123.00	5571	189.00	3417	275.00	93232
55.00	3278	124.00	2802	190.00	442	276.00	12347
56.00	4100	125.00	2383	191.00	1369	277.00	7992
57.00	9059	127.00	153216	192.00	3980	278.00	1403
58.00	11497	128.00	12210	193.00	4446	283.00	1227
59.00	7280	129.00	64200	194.00	1336	284.00	479
61.00	1720	130.00	5220	195.00	764	285.00	1579
62.00	1835	131.00	1271	196.00	10297	293.00	1692
63.00	5071	132.00	220	198.00	319296	295.00	317
64.00	829	133.00	582	199.00	21144	296.00	25936
65.00	2832	134.00	2140	200.00	1871	297.00	3488
67.00	716	135.00	5381	201.00	2078	303.00	3126
68.00	252	136.00	2279	202.00	340	304.00	827
69.00	124192	137.00	2866	203.00	2721	314.00	1287
70.00	907	138.00	859	204.00	12292	315.00	3015
71.00	6609	139.00	253	205.00	20408	316.00	1460
72.00	874	140.00	924	206.00	86936	321.00	710
73.00	894	141.00	9329	207.00	10961	322.00	217
74.00	13521	142.00	2745	208.00	3048	323.00	8695
75.00	19440	143.00	1966	209.00	1096	324.00	1661
76.00	6957	145.00	287	210.00	1457	327.00	1707
77.00	127632	146.00	1555	211.00	3788	328.00	779

Data File: \\Svecd04\DD\chem\smsd01.i\S1050912.b\DFTPP1.D

Date : 09-MAY-2012 07:06

Client ID: DFTPP1

Instrument: smsd01.i

Sample Info: 45777

Volume Injected (uL): 1.0

Operator:

Column phase:

Column diameter: 2.00

Data File: DFTPP1.D
Spectrum: Avg. Scans 606-608 (7.33), Background Scan 602
Location of Maximum: 198.00
Number of points: 255

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	9209	147.00	4736	212.00	221	332.00	392
79.00	10671	148.00	9720	215.00	1114	333.00	650
80.00	7676	149.00	2031	216.00	2111	334.00	5156
81.00	11126	150.00	523	217.00	22640	335.00	1414
82.00	3586	151.00	1300	218.00	2752	341.00	1038
83.00	3282	152.00	916	221.00	15406	346.00	1896
84.00	582	153.00	2827	222.00	1055	352.00	2393
85.00	2673	154.00	2015	223.00	5337	353.00	1704
86.00	3951	155.00	5286	224.00	48120	354.00	2533
87.00	1632	156.00	7260	225.00	12842	355.00	255
88.00	226	157.00	1297	226.00	1309	365.00	11737
91.00	2940	158.00	1720	227.00	22264	366.00	1714
92.00	2999	159.00	1444	228.00	2996	371.00	545
93.00	17344	160.00	2533	229.00	4573	372.00	4281
94.00	1657	161.00	4130	230.00	549	373.00	923
95.00	1199	162.00	1166	231.00	1900	383.00	1019
96.00	1842	163.00	228	233.00	234	390.00	481
97.00	892	164.00	535	234.00	1317	402.00	1569
98.00	13382	165.00	3767	235.00	1577	403.00	2351
99.00	10867	166.00	2857	236.00	1657	404.00	604
100.00	1562	167.00	16049	237.00	1472	421.00	2070
101.00	6054	168.00	6830	239.00	1305	422.00	2011
102.00	216	169.00	1601	240.00	345	423.00	14048
103.00	2194	170.00	303	241.00	1302	424.00	2947
104.00	4100	171.00	876	242.00	2605	441.00	41456
105.00	3945	172.00	1805	243.00	2971	442.00	262656
106.00	1161	173.00	1901	244.00	36600	443.00	50480
107.00	45144	174.00	3571	245.00	5193	444.00	4238
108.00	6957	175.00	6201	246.00	8114		

DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 05/09/2012 07:20

Datafile Analyzed: //Svecd04/DD/chem/smsd01.i/S1050912.b/DFTPP1.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 05/09/2012 11:50

Datafile Analyzed: //Svecd04/DD/chem/smsd01.i/S1050912.b/DFTPP1.D

PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050912.b\SIMCCV1.D
 Lab Smp Id: 46068 Client Smp ID: SIMCCV1
 Inj Date : 09-MAY-2012 07:25 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : 46068
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd01.i\S1050912.b\SIMBCSTR.m
 Meth Date : 08-May-2012 11:12 smsd01.i Quant Type: ISTD
 Cal Date : 07-MAY-2012 10:01 Cal File: SIMCAL6.D
 Als bottle: 99 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.249	4.253	(1.000)	152	9456	0.80000		80.00- 120.00	100.00	
4.249	4.253	(1.000)	115	5428			32.50- 92.50	57.40	

* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406	(1.000)	136	33104	0.80000		80.00- 120.00	100.00 (M)	
5.406	5.406	(1.000)	68	1404			0.00- 34.01	4.24	

6 Naphthalene CAS #: 91-20-3									
5.430	5.429	(1.004)	128	25715	0.50000	0.58	80.00- 120.00	100.00	
5.430	5.429	(1.004)	129	2669			0.00- 40.52	10.38	

8 2-Methylnaphthalene CAS #: 91-57-6									
6.082	6.093	(1.125)	142	16007	0.50000	0.56	80.00- 120.00	100.00 (M)	
6.082	6.082	(1.125)	141	13044			56.36- 116.36	81.49	

9 1-Methylnaphthalene CAS #: 90-12-0									
6.177	6.177	(1.143)	142	15651	0.50000	0.53	80.00- 120.00	100.00 (M)	
6.177	6.177	(1.143)	141	13174			49.28- 109.28	84.17	

\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.450	6.449	(0.908)	172	17860	0.50000	0.48	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	====	=====	=====	=====	=====	=====	
\$ 10 2-Fluorobiphenyl (SURR) (continued)									
6.450	6.449	(0.908)	171	6240			4.13- 64.13	34.94	

12 Acenaphthylene CAS #: 208-96-8									
6.955	6.964	(0.979)	152	25699	0.50000	0.55	80.00- 120.00	100.00	
6.955	6.964	(0.979)	151	4960			0.00- 49.78	19.30	

* 13 Acenaphthene-d10 CAS #: 15067-26-2									
7.105	7.105	(1.000)	164	20410	0.80000		80.00- 120.00	100.00	
7.096	7.105	(1.000)	162	19259			64.70- 124.70	94.36	

14 Acenaphthene CAS #: 83-32-9									
7.131	7.131	(1.004)	153	16538	0.50000	0.54	80.00- 120.00	100.00	
7.131	7.131	(1.004)	154	14973			60.47- 120.47	90.54	

16 Fluorene CAS #: 86-73-7									
7.641	7.641	(1.076)	166	19999	0.50000	0.57	80.00- 120.00	100.00	
7.641	7.641	(1.076)	165	19005			64.52- 124.52	95.03	

* 17 Phenanthrene-d10 CAS #: 1517-22-2									
8.555	8.555	(1.000)	188	37538	0.80000		80.00- 120.00	100.00	
8.549	8.549	(1.000)	94	2568			0.00- 36.97	6.84	

18 Phenanthrene CAS #: 85-01-8									
8.575	8.575	(1.002)	178	28815	0.50000	0.56	80.00- 120.00	100.00	
8.575	8.575	(1.002)	179	4286			0.00- 45.15	14.87	

19 Anthracene CAS #: 120-12-7									
8.627	8.626	(1.008)	178	23114	0.50000	0.60	80.00- 120.00	100.00	
8.627	8.626	(1.008)	179	3470			0.00- 45.16	15.01	

21 Fluoranthene CAS #: 206-44-0									
9.748	9.748	(1.139)	202	34851	0.50000	0.58	80.00- 120.00	100.00	
9.741	9.741	(1.139)	101	2784			0.00- 38.08	7.99	

22 Pyrene CAS #: 129-00-0									
9.967	9.967	(0.894)	202	35415	0.50000	0.54	80.00- 120.00	100.00	
9.967	9.967	(0.894)	200	7475			0.00- 50.73	21.11	

\$ 23 Terphenyl-d14 (SURR) CAS #: 1718-51-0									
10.118	10.124	(0.908)	244	23310	0.50000	0.56	80.00- 120.00	100.00	
10.118	10.118	(0.908)	122	1979			0.00- 38.43	8.49	

25 Benzo[a]anthracene CAS #: 56-55-3									
11.134	11.140	(0.999)	228	31383	0.50000	0.56	80.00- 120.00	100.00	
11.140	11.140	(0.999)	229	6116			0.00- 50.51	19.49	

* 26 Chrysene-d12 CAS #: 1719-03-5									
11.147	11.146	(1.000)	240	44782	0.80000		80.00- 120.00	100.00	
11.140	11.140	(1.000)	120	3498			0.00- 37.78	7.81	

27 Chrysene CAS #: 218-01-9									
11.172	11.171	(1.002)	228	35849	0.50000	0.57	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
27 Chrysene (continued)									
11.172	11.171	(1.002)	226	10298			0.00- 58.50	28.73	

30 Benzo[b]fluoranthene									
12.124	12.124	(0.973)	252	35759	0.50000	0.57	80.00- 120.00	100.00	
12.124	12.124	(0.973)	253	7547			0.00- 51.26	21.11	

31 Benzo[k]fluoranthene									
12.146	12.146	(0.975)	252	40013	0.50000	0.51	80.00- 120.00	100.00	
12.146	12.146	(0.975)	253	8949			0.00- 53.27	22.37	

32 Benzo[a]pyrene									
12.406	12.402	(0.996)	252	32468	0.50000	0.55	80.00- 120.00	100.00(M)	
12.406	12.406	(0.996)	253	6891			0.00- 53.07	21.23	

* 33 Perylene-d12									
12.458	12.454	(1.000)	264	46094	0.80000		80.00- 120.00	100.00	
12.454	12.454	(1.000)	260	9981			0.00- 52.55	21.65	

34 Indeno[1,2,3-cd]pyrene									
13.457	13.454	(1.080)	276	39769	0.50000	0.55	80.00- 120.00	100.00	
13.457	13.454	(1.080)	138	8169			0.00- 49.54	20.54	

35 Dibenz[a,h]anthracene									
13.465	13.465	(1.081)	278	31626	0.50000	0.54	80.00- 120.00	100.00	
13.461	13.461	(1.081)	139	4251			0.00- 43.05	13.44	

36 Benzo[g,h,i]perylene									
13.737	13.737	(1.103)	276	33235	0.50000	0.52	80.00- 120.00	100.00	
13.737	13.733	(1.103)	138	5797			0.00- 46.66	17.44	

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd01.i\S1050912.b\SIMCCV1.D

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Date : 09-MAY-2012 07:25

Client ID: SIMCCV1

Instrument: smsd01.i

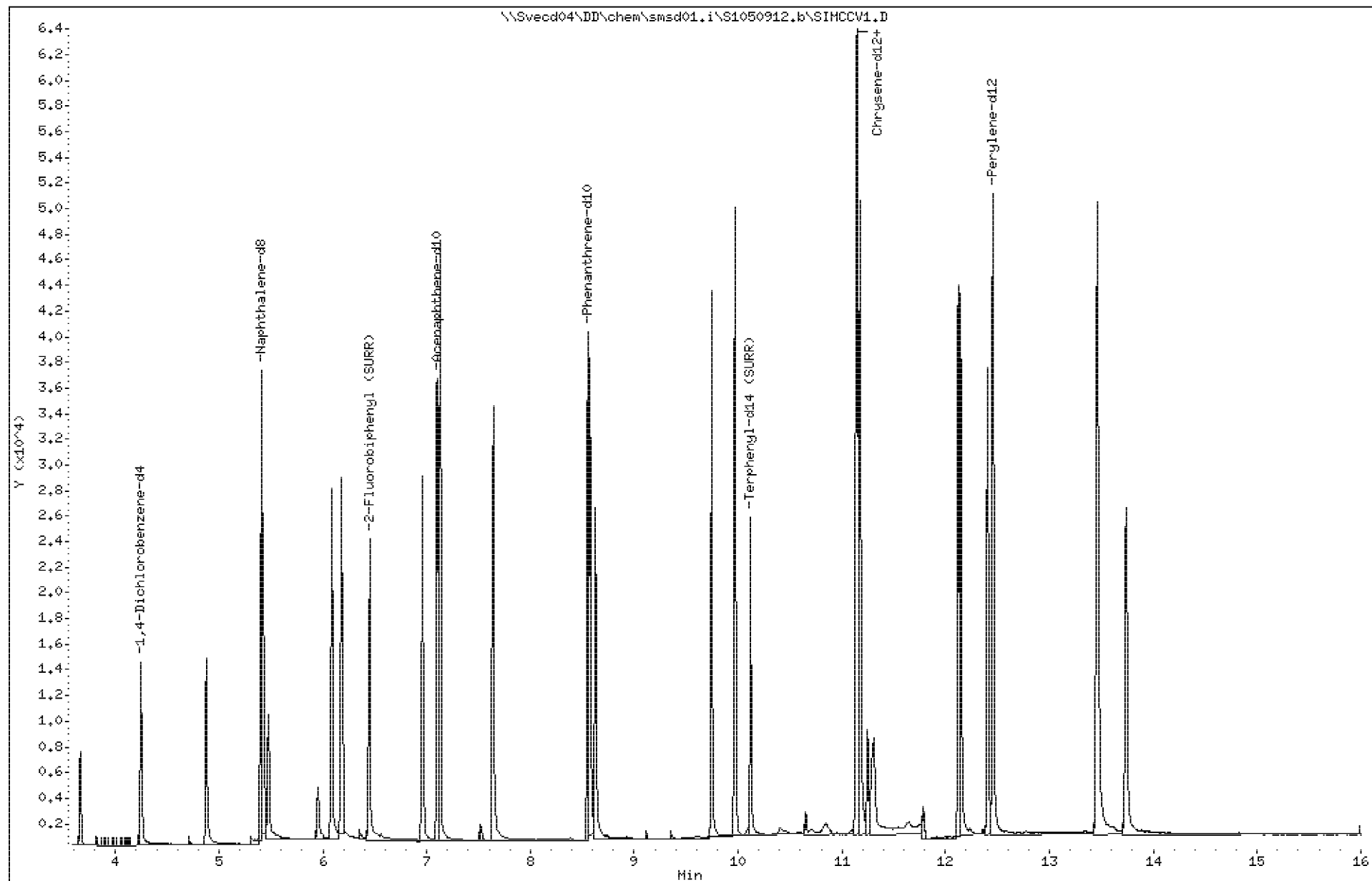
Sample Info: 46068

Purge Volume: 1000.0

Operator:

Column phase: HPMS-5

Column diameter: 0.25



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050912.b\84308D5.D
 Lab Smp Id: 350584308 Client Smp ID: EPAFMC-SD-12
 Inj Date : 09-MAY-2012 09:52 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : SIM350584308
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd01.i\S1050912.b\SIMBCSTR.m
 Meth Date : 08-May-2012 11:12 smsd01.i Quant Type: ISTD
 Cal Date : 07-MAY-2012 10:01 Cal File: SIMCAL6.D
 Als bottle: 6
 Dil Factor: 5.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	5.000	Dilution Factor
Ws	25.290	Weight of sample extracted (g)
M	15.600	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.249	4.253 (1.000)		152	9718	0.80000		80.00- 120.00	100.00	
4.249	4.253 (1.000)		115	5684			32.50- 92.50	58.50	
* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406 (1.000)		136	35558	0.80000		80.00- 120.00	100.00	
5.406	5.406 (1.000)		68	1483			0.00- 34.01	4.17	
6 Naphthalene CAS #: 91-20-3									
5.422	5.429 (1.003)		128	136525	2.84532	666	80.00- 120.00	100.00	
5.429	5.429 (1.004)		129	14340			0.00- 40.52	10.50	
8 2-Methylnaphthalene CAS #: 91-57-6									
6.082	6.093 (1.125)		142	19948	0.64709	152	80.00- 120.00	100.00	
6.082	6.082 (1.125)		141	17047			56.36- 116.36	85.46	
9 1-Methylnaphthalene CAS #: 90-12-0									
6.177	6.177 (1.143)		142	9734	0.30497	71.4	80.00- 120.00	100.00(M)	
6.177	6.177 (1.143)		141	7809			49.28- 109.28	80.22	
\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.449	6.449 (0.908)		172	2893	0.07154	16.8	80.00- 120.00	100.00	

CONCENTRATIONS								
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 10 2-Fluorobiphenyl (SURR) (continued)								
6.449	6.449	(0.908)	171	952			4.13- 64.13	32.92

12 Acenaphthylene					CAS #: 208-96-8			
6.964	6.964	(0.980)	152	27570	0.54200	127	80.00- 120.00	100.00
6.955	6.964	(0.979)	151	5583			0.00- 49.78	20.25

* 13 Acenaphthene-d10					CAS #: 15067-26-2			
7.105	7.105	(1.000)	164	22391	0.80000		80.00- 120.00	100.00
7.096	7.105	(1.000)	162	21357			64.70- 124.70	95.38

14 Acenaphthene					CAS #: 83-32-9			
7.131	7.131	(1.004)	153	5309	0.15739	36.9	80.00- 120.00	100.00
7.131	7.131	(1.004)	154	4475			60.47- 120.47	84.29

16 Fluorene					CAS #: 86-73-7			
7.641	7.641	(1.076)	166	18260	0.47513	111	80.00- 120.00	100.00
7.632	7.641	(1.074)	165	18123			64.52- 124.52	99.25

* 17 Phenanthrene-d10					CAS #: 1517-22-2			
8.555	8.555	(1.000)	188	42467	0.80000		80.00- 120.00	100.00
8.549	8.549	(1.000)	94	2796			0.00- 36.97	6.58

18 Phenanthrene					CAS #: 85-01-8			
8.575	8.575	(1.002)	178	101728	1.75921	412	80.00- 120.00	100.00
8.575	8.575	(1.002)	179	15384			0.00- 45.15	15.12

19 Anthracene					CAS #: 120-12-7			
8.626	8.626	(1.008)	178	48147	1.09929	258	80.00- 120.00	100.00
8.626	8.626	(1.008)	179	10584			0.00- 45.16	21.98

21 Fluoranthene					CAS #: 206-44-0			
9.741	9.748	(1.139)	202	219810	3.26390	764	80.00- 120.00	100.00
9.741	9.741	(1.139)	101	16667			0.00- 38.08	7.58

22 Pyrene					CAS #: 129-00-0			
9.967	9.967	(0.894)	202	167371	2.27117	532	80.00- 120.00	100.00
9.967	9.967	(0.894)	200	34398			0.00- 50.73	20.55

\$ 23 Terphenyl-d14 (SURR)					CAS #: 1718-51-0			
10.118	10.124	(0.908)	244	3655	0.07766	18.2	80.00- 120.00	100.00
10.118	10.118	(0.908)	122	411			0.00- 38.43	11.26

25 Benzo[a]anthracene					CAS #: 56-55-3			
11.134	11.140	(0.999)	228	124799	1.98982	466	80.00- 120.00	100.00
11.134	11.140	(0.999)	229	32858			0.00- 50.51	26.33

* 26 Chrysene-d12					CAS #: 1719-03-5			
11.146	11.146	(1.000)	240	50632	0.80000		80.00- 120.00	100.00
11.134	11.140	(1.000)	120	8939			0.00- 37.78	17.65

27 Chrysene					CAS #: 218-01-9			
11.171	11.171	(1.002)	228	123656	1.74361	408	80.00- 120.00	100.00

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
27 Chrysene (continued)									
11.171	11.171	(1.002)	226	36997			0.00-	58.50	29.92

30 Benzo[b]fluoranthene CAS #: 205-99-2									
12.124	12.124	(0.973)	252	160310	2.32284	544	80.00-	120.00	100.00
12.124	12.124	(0.973)	253	34354			0.00-	51.26	21.43

31 Benzo[k]fluoranthene CAS #: 207-08-9									
12.142	12.146	(0.975)	252	56445	0.65355	153	80.00-	120.00	100.00(M)
12.142	12.146	(0.975)	253	14101			0.00-	53.27	24.98

32 Benzo[a]pyrene CAS #: 50-32-8									
12.402	12.402	(0.996)	252	98641	1.52281	357	80.00-	120.00	100.00
12.402	12.406	(0.996)	253	23369			0.00-	53.07	23.69

* 33 Perylene-d12 CAS #: 1520-96-3									
12.454	12.454	(1.000)	264	50654	0.80000		80.00-	120.00	100.00
12.454	12.454	(1.000)	260	10836			0.00-	52.55	21.39

34 Indeno[1,2,3-cd]pyrene CAS #: 193-39-5									
13.454	13.454	(1.080)	276	65956	0.82444	193	80.00-	120.00	100.00
13.450	13.454	(1.080)	138	10266			0.00-	49.54	15.57

35 Dibenz[a,h]anthracene CAS #: 53-70-3									
13.457	13.465	(1.081)	278	19208	0.30160	70.6	80.00-	120.00	100.00
13.457	13.461	(1.081)	139	2001			0.00-	43.05	10.42

36 Benzo[g,h,i]perylene CAS #: 191-24-2									
13.733	13.737	(1.103)	276	60734	0.86382	202	80.00-	120.00	100.00
13.733	13.733	(1.103)	138	9899			0.00-	46.66	16.30

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd01.i\S1050912.b\84308D5.D

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Date : 09-MAY-2012 09:52

Client ID: EPAFMC-SD-12

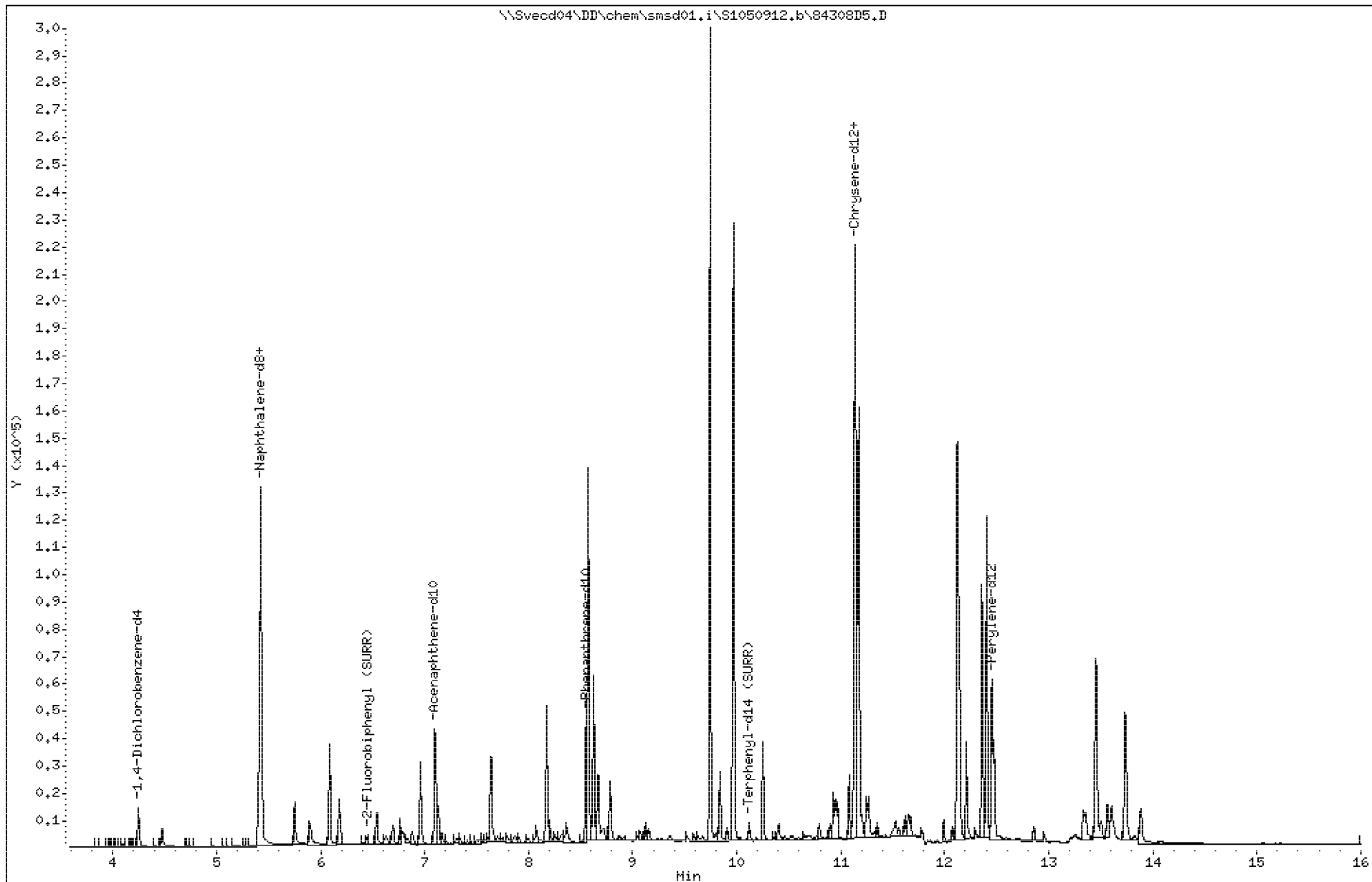
Instrument: smsd01.i

Sample Info: SIM350584308

Operator:

Column phase: HPMS-5

Column diameter: 0.25



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050912.b\84309D5.D
 Lab Smp Id: 350584309 Client Smp ID: EPAFMC-SD-13
 Inj Date : 09-MAY-2012 10:16 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : SIM350584309
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd01.i\S1050912.b\SIMBCSTR.m
 Meth Date : 08-May-2012 11:12 smsd01.i Quant Type: ISTD
 Cal Date : 07-MAY-2012 10:01 Cal File: SIMCAL6.D
 Als bottle: 7
 Dil Factor: 5.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	5.000	Dilution Factor
Ws	25.390	Weight of sample extracted (g)
M	22.000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.249	4.253 (1.000)		152	9040	0.80000		80.00- 120.00	100.00	
4.249	4.253 (1.000)		115	5252			32.50- 92.50	58.10	
* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406 (1.000)		136	34110	0.80000		80.00- 120.00	100.00	
5.406	5.406 (1.000)		68	1249			0.00- 34.01	3.66	
6 Naphthalene CAS #: 91-20-3									
5.429	5.429 (1.004)		128	24574	0.53389	135	80.00- 120.00	100.00	
5.429	5.429 (1.004)		129	2562			0.00- 40.52	10.43	
8 2-Methylnaphthalene CAS #: 91-57-6									
6.082	6.093 (1.125)		142	4465	0.15099	38.1	80.00- 120.00	100.00	
6.082	6.082 (1.125)		141	3818			56.36- 116.36	85.52	
9 1-Methylnaphthalene CAS #: 90-12-0									
6.177	6.177 (1.143)		142	2427	0.07927	20.0	80.00- 120.00	100.00(M)	
6.177	6.177 (1.143)		141	1846			49.28- 109.28	76.04	
\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.450	6.449 (0.908)		172	2652	0.07030	17.7	80.00- 120.00	100.00	

CONCENTRATIONS								
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 10 2-Fluorobiphenyl (SURR) (continued)								
6.450	6.449	(0.908)	171	888			4.13- 64.13	33.49

12 Acenaphthylene					CAS #: 208-96-8			
6.964	6.964	(0.980)	152	14573	0.30713	77.5	80.00- 120.00	100.00
6.955	6.964	(0.979)	151	2938			0.00- 49.78	20.16

* 13 Acenaphthene-d10					CAS #: 15067-26-2			
7.105	7.105	(1.000)	164	20886	0.80000		80.00- 120.00	100.00
7.096	7.105	(1.000)	162	19799			64.70- 124.70	94.80

14 Acenaphthene					CAS #: 83-32-9			
7.131	7.131	(1.004)	153	3244	0.10310	26.0	80.00- 120.00	100.00
7.131	7.131	(1.004)	154	2806			60.47- 120.47	86.51

16 Fluorene					CAS #: 86-73-7			
7.641	7.641	(1.076)	166	5721	0.15959	40.3	80.00- 120.00	100.00
7.641	7.641	(1.076)	165	5825			64.52- 124.52	101.83

* 17 Phenanthrene-d10					CAS #: 1517-22-2			
8.555	8.555	(1.000)	188	39635	0.80000		80.00- 120.00	100.00
8.549	8.549	(1.000)	94	2548			0.00- 36.97	6.43

18 Phenanthrene					CAS #: 85-01-8			
8.575	8.575	(1.002)	178	68037	1.26065	318	80.00- 120.00	100.00
8.575	8.575	(1.002)	179	10345			0.00- 45.15	15.21

19 Anthracene					CAS #: 120-12-7			
8.626	8.626	(1.008)	178	27493	0.67257	170	80.00- 120.00	100.00(M)
8.626	8.626	(1.008)	179	4710			0.00- 45.16	17.13

21 Fluoranthene					CAS #: 206-44-0			
9.741	9.748	(1.139)	202	239531	3.81087	962	80.00- 120.00	100.00
9.741	9.741	(1.139)	101	18261			0.00- 38.08	7.62

22 Pyrene					CAS #: 129-00-0			
9.967	9.967	(0.894)	202	184437	2.76378	698	80.00- 120.00	100.00
9.967	9.967	(0.894)	200	37779			0.00- 50.73	20.48

\$ 23 Terphenyl-d14 (SURR)					CAS #: 1718-51-0			
10.118	10.124	(0.908)	244	3301	0.07745	19.6	80.00- 120.00	100.00
10.118	10.118	(0.908)	122	351			0.00- 38.43	10.65

25 Benzo[a]anthracene					CAS #: 56-55-3			
11.134	11.140	(0.999)	228	131037	2.30719	582	80.00- 120.00	100.00
11.134	11.140	(0.999)	229	33119			0.00- 50.51	25.27

* 26 Chrysene-d12					CAS #: 1719-03-5			
11.146	11.146	(1.000)	240	45850	0.80000		80.00- 120.00	100.00
11.140	11.140	(1.000)	120	3647			0.00- 37.78	7.96

27 Chrysene					CAS #: 218-01-9			
11.172	11.171	(1.002)	228	132327	2.06048	520	80.00- 120.00	100.00

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	
27 Chrysene (continued)									
11.165	11.171	(1.002)	226	39171			0.00- 58.50	29.60	

30 Benzo[b]fluoranthene CAS #: 205-99-2									
12.124	12.124	(0.973)	252	173917	2.66338	672	80.00- 120.00	100.00 (M)	
12.124	12.124	(0.973)	253	36980			0.00- 51.26	21.26	

31 Benzo[k]fluoranthene CAS #: 207-08-9									
12.135	12.146	(0.974)	252	87997	1.07685	272	80.00- 120.00	100.00 (M)	
12.142	12.146	(0.975)	253	16539			0.00- 53.27	18.80	

32 Benzo[a]pyrene CAS #: 50-32-8									
12.402	12.402	(0.996)	252	111470	1.81878	459	80.00- 120.00	100.00	
12.406	12.406	(0.996)	253	26155			0.00- 53.07	23.46	

* 33 Perylene-d12 CAS #: 1520-96-3									
12.454	12.454	(1.000)	264	47927	0.80000		80.00- 120.00	100.00	
12.454	12.454	(1.000)	260	10174			0.00- 52.55	21.23	

34 Indeno[1,2,3-cd]pyrene CAS #: 193-39-5									
13.454	13.454	(1.080)	276	76246	1.00729	254	80.00- 120.00	100.00	
13.454	13.454	(1.080)	138	11599			0.00- 49.54	15.21	

35 Dibenz[a,h]anthracene CAS #: 53-70-3									
13.461	13.465	(1.081)	278	20494	0.34010	85.9	80.00- 120.00	100.00	
13.457	13.461	(1.081)	139	2573			0.00- 43.05	12.56	

36 Benzo[g,h,i]perylene CAS #: 191-24-2									
13.737	13.737	(1.103)	276	71288	1.07163	270	80.00- 120.00	100.00	
13.737	13.733	(1.103)	138	11980			0.00- 46.66	16.81	

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd01.i\S1050912.b\84309D5.D

Page 4

Date : 09-MAY-2012 10:16

Client ID: EPAFMC-SD-13

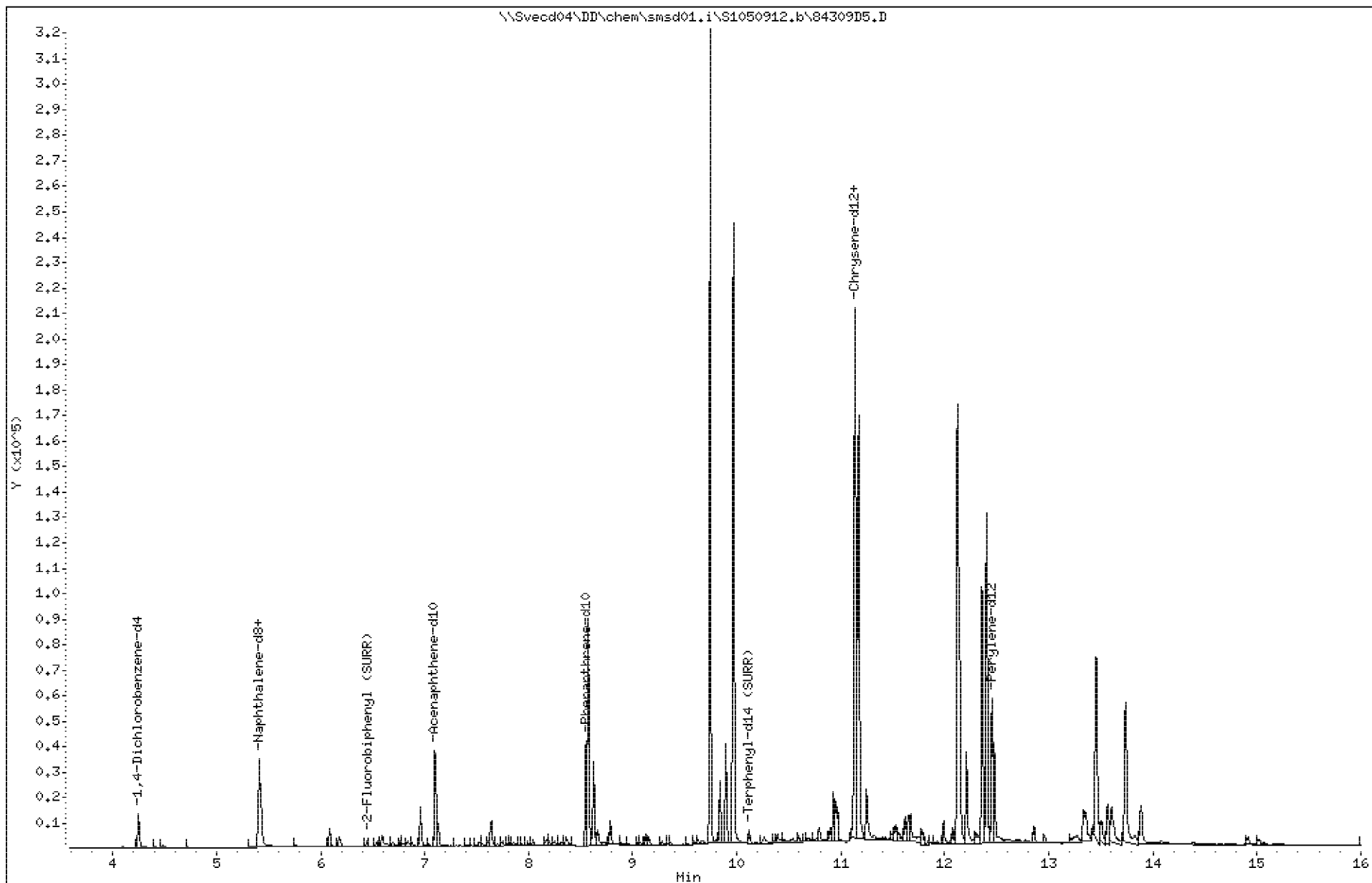
Instrument: smsd01.i

Sample Info: SIM350584309

Operator:

Column phase: HPMS-5

Column diameter: 0.25



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd01.i\S1050912.b\84312D5.D
 Lab Smp Id: 350584312 Client Smp ID: EPAFMC-SD-16
 Inj Date : 09-MAY-2012 10:40 MS Autotune Date: 19-MAR-2012 07:15
 Operator : Inst ID: smsd01.i
 Smp Info : SIM350584312
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd01.i\S1050912.b\SIMBCSTR.m
 Meth Date : 08-May-2012 11:12 smsd01.i Quant Type: ISTD
 Cal Date : 07-MAY-2012 10:01 Cal File: SIMCAL6.D
 Als bottle: 8
 Dil Factor: 5.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	5.000	Dilution Factor
Ws	25.570	Weight of sample extracted (g)
M	19.900	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
* 3 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.249	4.253 (1.000)		152	9086	0.80000		80.00- 120.00	100.00	
4.249	4.253 (1.000)		115	5313			32.50- 92.50	58.47	
* 5 Naphthalene-d8 CAS #: 1146-65-2									
5.406	5.406 (1.000)		136	33675	0.80000		80.00- 120.00	100.00	
5.406	5.406 (1.000)		68	1374			0.00- 34.01	4.08	
6 Naphthalene CAS #: 91-20-3									
5.429	5.429 (1.004)		128	107524	2.36621	578	80.00- 120.00	100.00	
5.429	5.429 (1.004)		129	11308			0.00- 40.52	10.52	
8 2-Methylnaphthalene CAS #: 91-57-6									
6.177	6.093 (1.143)		142	7642	0.26176	63.9	80.00- 120.00	100.00(QM)	
6.082	6.082 (1.125)		141	12384			56.36- 116.36	162.05	
9 1-Methylnaphthalene CAS #: 90-12-0									
6.177	6.177 (1.143)		142	6618	0.21894	53.4	80.00- 120.00	100.00	
6.177	6.177 (1.143)		141	5906			49.28- 109.28	89.24	
\$ 10 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.449	6.449 (0.908)		172	2891	0.07412	18.1	80.00- 120.00	100.00	

CONCENTRATIONS								
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 10 2-Fluorobiphenyl (SURR) (continued)								
6.449	6.449	(0.908)	171	931			4.13- 64.13	32.20

12 Acenaphthylene					CAS #: 208-96-8			
6.964	6.964	(0.980)	152	20291	0.41362	101	80.00- 120.00	100.00
6.955	6.964	(0.979)	151	4067			0.00- 49.78	20.04

* 13 Acenaphthene-d10					CAS #: 15067-26-2			
7.105	7.105	(1.000)	164	21594	0.80000		80.00- 120.00	100.00
7.096	7.105	(1.000)	162	20535			64.70- 124.70	95.10

14 Acenaphthene					CAS #: 83-32-9			
7.131	7.131	(1.004)	153	5816	0.17878	43.6	80.00- 120.00	100.00
7.131	7.131	(1.004)	154	5099			60.47- 120.47	87.67

16 Fluorene					CAS #: 86-73-7			
7.641	7.641	(1.076)	166	15678	0.42301	103	80.00- 120.00	100.00
7.632	7.641	(1.074)	165	15557			64.52- 124.52	99.23

* 17 Phenanthrene-d10					CAS #: 1517-22-2			
8.555	8.555	(1.000)	188	40395	0.80000		80.00- 120.00	100.00
8.549	8.549	(1.000)	94	2646			0.00- 36.97	6.55

18 Phenanthrene					CAS #: 85-01-8			
8.575	8.575	(1.002)	178	90304	1.64176	401	80.00- 120.00	100.00
8.575	8.575	(1.002)	179	13623			0.00- 45.15	15.09

19 Anthracene					CAS #: 120-12-7			
8.626	8.626	(1.008)	178	40695	0.97680	238	80.00- 120.00	100.00(M)
8.626	8.626	(1.008)	179	7636			0.00- 45.16	18.76

21 Fluoranthene					CAS #: 206-44-0			
9.741	9.748	(1.139)	202	199006	3.10656	758	80.00- 120.00	100.00
9.741	9.741	(1.139)	101	15077			0.00- 38.08	7.58

22 Pyrene					CAS #: 129-00-0			
9.967	9.967	(0.894)	202	157251	2.31346	565	80.00- 120.00	100.00
9.967	9.967	(0.894)	200	32279			0.00- 50.73	20.53

\$ 23 Terphenyl-d14 (SURR)					CAS #: 1718-51-0			
10.118	10.124	(0.908)	244	3289	0.07576	18.5	80.00- 120.00	100.00
10.118	10.118	(0.908)	122	383			0.00- 38.43	11.64

25 Benzo[a]anthracene					CAS #: 56-55-3			
11.134	11.140	(0.999)	228	104027	1.79824	439	80.00- 120.00	100.00
11.134	11.140	(0.999)	229	25458			0.00- 50.51	24.47

* 26 Chrysene-d12					CAS #: 1719-03-5			
11.146	11.146	(1.000)	240	46701	0.80000		80.00- 120.00	100.00
11.140	11.140	(1.000)	120	3592			0.00- 37.78	7.69

27 Chrysene					CAS #: 218-01-9			
11.171	11.171	(1.002)	228	102885	1.57284	384	80.00- 120.00	100.00

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET	RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
27 Chrysene (continued)									
11.171	11.171	(1.002)	226	30525			0.00-	58.50	29.67

30 Benzo[b]fluoranthene CAS #: 205-99-2									
12.124	12.124	(0.973)	252	145894	2.22805	544	80.00-	120.00	100.00 (M)
12.124	12.124	(0.973)	253	31025			0.00-	51.26	21.27

31 Benzo[k]fluoranthene CAS #: 207-08-9									
12.142	12.146	(0.975)	252	60974	0.74410	182	80.00-	120.00	100.00 (M)
12.142	12.146	(0.975)	253	14460			0.00-	53.27	23.72

32 Benzo[a]pyrene CAS #: 50-32-8									
12.406	12.402	(0.996)	252	99447	1.61812	395	80.00-	120.00	100.00
12.406	12.406	(0.996)	253	22483			0.00-	53.07	22.61

* 33 Perylene-d12 CAS #: 1520-96-3									
12.458	12.454	(1.000)	264	48060	0.80000		80.00-	120.00	100.00
12.454	12.454	(1.000)	260	10219			0.00-	52.55	21.26

34 Indeno[1,2,3-cd]pyrene CAS #: 193-39-5									
13.457	13.454	(1.080)	276	65546	0.86354	211	80.00-	120.00	100.00
13.454	13.454	(1.080)	138	10693			0.00-	49.54	16.31

35 Dibenz[a,h]anthracene CAS #: 53-70-3									
13.461	13.465	(1.081)	278	18713	0.30969	75.6	80.00-	120.00	100.00
13.461	13.461	(1.081)	139	1976			0.00-	43.05	10.56

36 Benzo[g,h,i]perylene CAS #: 191-24-2									
13.741	13.737	(1.103)	276	59712	0.89513	218	80.00-	120.00	100.00
13.737	13.733	(1.103)	138	9830			0.00-	46.66	16.46

QC Flag Legend

Q - Qualifier signal failed the ratio test.
 M - Compound response manually integrated.

Date : 09-MAY-2012 10:40

Client ID: EPAFMC-SD-16

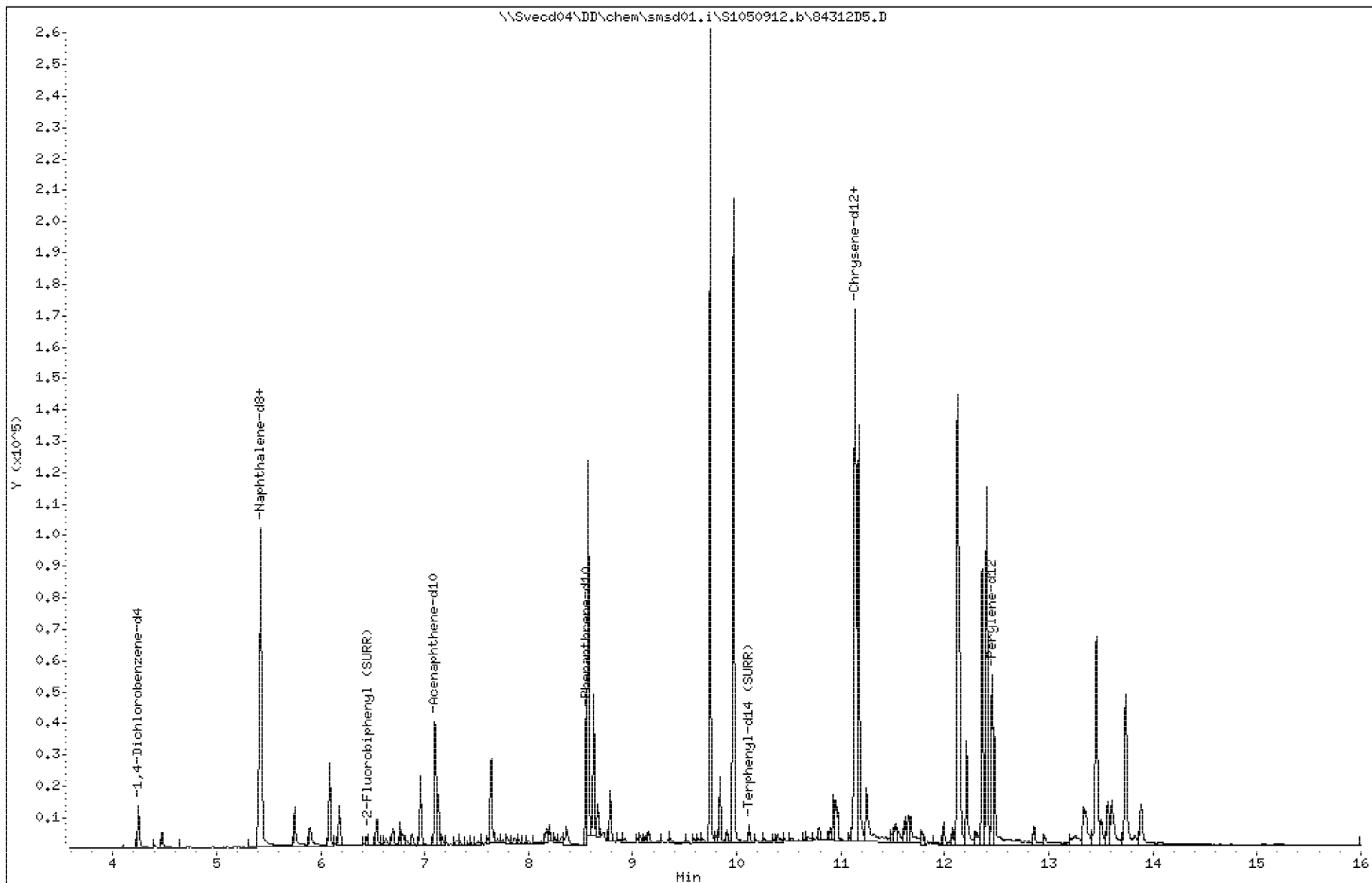
Sample Info: SIM350584312

Instrument: smsd01.i

Operator:

Column diameter: 0.25

Column phase: HPMS-5



Raw Data Method 8270

RUN LOG CHECK LIST

SDG: 3505843

Method: 8270

SAMPLE ID	LAB ID	InitialCal Reference	FILE	BATCH	COL	INSTRUMENT	RUN DATE	DILUTION
DFT1072995 *	45777	SMSD0304/23/12-1928~S3042312	DFTPP2.D	S3042312	1	SMSD03	04/23/12 10:03	1
STD1072999 *	45921	SMSD0304/23/12-1928~S3042312	8270CAL7.D	S3042312	1	SMSD03	04/23/12 10:23	1
STD1073000 *	45922	SMSD0304/23/12-1928~S3042312	8270CAL6.D	S3042312	1	SMSD03	04/23/12 10:47	1
STD1073001 *	45923	SMSD0304/23/12-1928~S3042312	8270CAL5.D	S3042312	1	SMSD03	04/23/12 11:10	1
STD1073002 *	45924	SMSD0304/23/12-1928~S3042312	8270CAL4.D	S3042312	1	SMSD03	04/23/12 11:34	1
STD1073004 *	45925	SMSD0304/23/12-1928~S3042312	8270CAL3.D	S3042312	1	SMSD03	04/23/12 11:58	1
STD1073005 *	45926	SMSD0304/23/12-1928~S3042312	8270CAL2.D	S3042312	1	SMSD03	04/23/12 12:21	1
STD1073006 *	45927	SMSD0304/23/12-1928~S3042312	8270CAL1.D	S3042312	1	SMSD03	04/23/12 12:45	1
SSC1072998 *	45872	SMSD0304/23/12-1928~S3042312	8270SEC2.D	S3042312	1	SMSD03	04/23/12 13:33	1
STD1073007 *	45933	SMSD0304/23/12-1928~S3042312	BSCAL7.D	S3042312	1	SMSD03	04/23/12 13:56	1
STD1073008 *	45934	SMSD0304/23/12-1928~S3042312	BSCAL6.D	S3042312	1	SMSD03	04/23/12 14:20	1
STD1073009 *	45935	SMSD0304/23/12-1928~S3042312	BSCAL5.D	S3042312	1	SMSD03	04/23/12 14:44	1
STD1073010 *	45936	SMSD0304/23/12-1928~S3042312	BSCAL4.D	S3042312	1	SMSD03	04/23/12 15:07	1
STD1073012 *	45937	SMSD0304/23/12-1928~S3042312	BSCAL3.D	S3042312	1	SMSD03	04/23/12 15:31	1
STD1073013 *	45938	SMSD0304/23/12-1928~S3042312	BSCAL2.D	S3042312	1	SMSD03	04/23/12 15:55	1
STD1073014 *	45939	SMSD0304/23/12-1928~S3042312	BSCAL1.D	S3042312	1	SMSD03	04/23/12 16:19	1
SSC1072994 *	44859	SMSD0304/23/12-1928~S3042312	BSSEC.D	S3042312	1	SMSD03	04/23/12 16:42	1
STD1073015 *	45955	SMSD0304/23/12-1928~S3042312	AP9CAL7.D	S3042312	1	SMSD03	04/23/12 17:06	1
STD1073016 *	45956	SMSD0304/23/12-1928~S3042312	AP9CAL6.D	S3042312	1	SMSD03	04/23/12 17:30	1
STD1073017 *	45957	SMSD0304/23/12-1928~S3042312	AP9CAL5.D	S3042312	1	SMSD03	04/23/12 17:53	1
STD1073018 *	45958	SMSD0304/23/12-1928~S3042312	AP9CAL4.D	S3042312	1	SMSD03	04/23/12 18:17	1
STD1073020 *	45959	SMSD0304/23/12-1928~S3042312	AP9CAL3.D	S3042312	1	SMSD03	04/23/12 18:41	1
STD1073021 *	45960	SMSD0304/23/12-1928~S3042312	AP9CAL2.D	S3042312	1	SMSD03	04/23/12 19:04	1
STD1073022 *	45961	SMSD0304/23/12-1928~S3042312	AP9CAL1.D	S3042312	1	SMSD03	04/23/12 19:28	1
SSC1072993 *	44612	SMSD0304/23/12-1928~S3042312	AP9SEC2.D	S3042312	1	SMSD03	04/23/12 20:15	1
DFT1077097 *	45777	SMSD0304/23/12-1928~S3042312	DFTPP1.D	S3050312	1	SMSD03	05/03/12 10:31	1
CCV1077096 *	45936	SMSD0304/23/12-1928~S3042312	BSCCV1.D	S3050312	1	SMSD03	05/03/12 11:15	1
CCV1077095 *	45958	SMSD0304/23/12-1928~S3042312	AP9CCV1.D	S3050312	1	SMSD03	05/03/12 11:39	1

* Sample IDs for calibration items are system generated

mjacobs

5/7/2012 4:32:40 PM

3505843

993

RUN LOG CHECK LIST

SDG: 3505843

Method: 8270

SAMPLE ID	LAB ID	InitialCal Reference	FILE	BATCH	COL	INSTRUMENT	RUN DATE	DILUTION
CCV1077094 *	45924	SMSD0304/23/12-1928~S3042312	8270CCV2.D	S3050312	1	SMSD03	05/03/12 12:03	1
128824MB	128824MB	SMSD0304/23/12-1928~S3042312	9300MB.D	S3050312	1	SMSD03	05/03/12 14:03	1
128825LCS	128825LCS	SMSD0304/23/12-1928~S3042312	9300LCS.D	S3050312	1	SMSD03	05/03/12 14:27	1
DFT1077402 *	45777	SMSD0304/23/12-1928~S3042312	DFTPP1.D	S3050412	1	SMSD03	05/04/12 07:53	1
CCV1077399 *	45924	SMSD0304/23/12-1928~S3042312	8270CCV1.D	S3050412	1	SMSD03	05/04/12 08:13	1
CCV1077401 *	45936	SMSD0304/23/12-1928~S3042312	BSCCV1.D	S3050412	1	SMSD03	05/04/12 08:36	1
CCV1077400 *	45958	SMSD0304/23/12-1928~S3042312	AP9CCV1.D	S3050412	1	SMSD03	05/04/12 09:00	1
EPAFMC-SD-07	350584301	SMSD0304/23/12-1928~S3042312	84301.D	S3050412	1	SMSD03	05/04/12 11:45	1
EPAFMC-SD-07MS	350584302	SMSD0304/23/12-1928~S3042312	84302.D	S3050412	1	SMSD03	05/04/12 13:22	1
EPAFMC-SD-07SD	350584303	SMSD0304/23/12-1928~S3042312	84303.D	S3050412	1	SMSD03	05/04/12 13:46	1
EPAFMC-SD-08	350584304	SMSD0304/23/12-1928~S3042312	84304.D	S3050412	1	SMSD03	05/04/12 14:09	1
EPAFMC-SD-09	350584305	SMSD0304/23/12-1928~S3042312	84305.D	S3050412	1	SMSD03	05/04/12 14:33	1
EPAFMC-SD-10	350584306	SMSD0304/23/12-1928~S3042312	84306.D	S3050412	1	SMSD03	05/04/12 14:57	1
EPAFMC-SD-11	350584307	SMSD0304/23/12-1928~S3042312	84307.D	S3050412	1	SMSD03	05/04/12 15:21	1
EPAFMC-SD-12	350584308	SMSD0304/23/12-1928~S3042312	84308.D	S3050412	1	SMSD03	05/04/12 15:45	1
EPAFMC-SD-13	350584309	SMSD0304/23/12-1928~S3042312	84309.D	S3050412	1	SMSD03	05/04/12 16:09	1
EPAFMC-SD-14	350584310	SMSD0304/23/12-1928~S3042312	84310.D	S3050412	1	SMSD03	05/04/12 16:32	1
EPAFMC-SD-15	350584311	SMSD0304/23/12-1928~S3042312	84311.D	S3050412	1	SMSD03	05/04/12 16:56	1
EPAFMC-SD-16	350584312	SMSD0304/23/12-1928~S3042312	84312.D	S3050412	1	SMSD03	05/04/12 17:20	1

* Sample IDs for calibration items are system generated

mjacobs

5/7/2012 4:32:40 PM

3505843

994

Extraction Method	3545
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Extraction Log 8270 Soil Ext

Start: 5/3/2012 10:00:00 AM
End: 5/4/2012 7:33:13 AM

Water Bath Temp: 70 °C

Batch ID 9300

Thermometer ID: stbAS

Balance ID: P35923

Final

Batch ID: 9300

Lab ID	Cont	Client ID	Date Samp	Type	Odor	Color	Sed	Initial	Final	pH	Standards	Cleanups	Archive
350584301	1	EPAFMC-SD-07	4/24/2012 11:25:00 AM	SAMPLE	none	brown/or	soil/grav	25.08 G	1 mL		1mL 8270_BNA-Surr_ST: 44367 @ 100:200 ug/mL;		na
350584302	1	EPAFMC-SD-07MS	4/24/2012 11:25:00 AM	MS	none	brown/or	soil/grav	25.24 G	1 mL		250uL 8270_BNA_SPK: 45866 @ 160 ug/mL; 250uL AP-9wkg_spk: 46009 @ N/A; 250uL SOWwkg_spk: 45434 @ 160 ug/mL; 1mL 8270_BNA		na
350584303	1	EPAFMC-SD-07SD	4/24/2012 11:25:00 AM	MSD	none	brown/or	soil/grav	25.12 G	1 mL		250uL 8270_BNA_SPK: 45866 @ 160 ug/mL; 250uL AP-9wkg_spk: 46009 @ N/A; 250uL SOWwkg_spk: 45434 @ 160 ug/mL; 1mL 8270_BNA		na
350584304	1	EPAFMC-SD-08	4/24/2012 11:37:00 AM	SAMPLE	none	brown/or	soil/grav	25.39 G	1 mL		1mL 8270_BNA-Surr_ST: 44367 @ 100:200 ug/mL;		na
350584305	1	EPAFMC-SD-09	4/24/2012 11:45:00 AM	SAMPLE	none	brown/or	soil/grav	25.06 G	1 mL		1mL 8270_BNA-Surr_ST: 44367 @ 100:200 ug/mL;		na
350584306	1	EPAFMC-SD-10	4/24/2012 1:43:00 PM	SAMPLE	none	brown/or	soil/grav	25.81 G	1 mL		1mL 8270_BNA-Surr_ST: 44367 @ 100:200 ug/mL;		na
350584307	1	EPAFMC-SD-11	4/24/2012 2:25:00 PM	SAMPLE	none	brown/or	soil/grav	25.15 G	1 mL		1mL 8270_BNA-Surr_ST: 44367 @ 100:200 ug/mL;		na
350584308	1	EPAFMC-SD-12	4/24/2012 3:40:00 PM	SAMPLE	none	brown/or	soil/grav	25.52 G	1 mL		1mL 8270_BNA-Surr_ST: 44367 @ 100:200 ug/mL;		na
350584309	1	EPAFMC-SD-13	4/24/2012 3:04:00 PM	SAMPLE	none	brown/or	soil/grav	25.22 G	1 mL		1mL 8270_BNA-Surr_ST: 44367 @ 100:200 ug/mL;		na

Lab ID	Cont	Client ID	Date Samp	Type	Odor	Color	Sed	Initial	Final	pH	Standards	Cleanups	Archive
350584310	1	EPAFMC-SD-14	4/24/2012 3:35:00 PM	SAMPLE	none	brown/or	soil/grav	25.67 G	1 mL		1mL 8270_BNA-Surr_ST: 44367 @ 100:200 ug/mL;		na
350584311	1	EPAFMC-SD-15	4/24/2012 3:19:00 PM	SAMPLE	none	brown/or	soil/grav	25.45 G	1 mL		1mL 8270_BNA-Surr_ST: 44367 @ 100:200 ug/mL;		na
350584312	1	EPAFMC-SD-16	4/24/2012 3:45:00 PM	SAMPLE	none	brown/or	soil/grav	25.38 G	1 mL		1mL 8270_BNA-Surr_ST: 44367 @ 100:200 ug/mL;		na
350588801	5	PX-S05-SS04-0412	4/27/2012 2:20:00 PM	SAMPLE	none	brown	soil	25.98 G	1 mL		1mL 8270_BNA-Surr_ST: 44367 @ 100:200 ug/mL;		na
350588802	5	PX-S05-SS05-0412	4/27/2012 2:47:00 PM	SAMPLE	none	brown	soil	25.11 G	1 mL		1mL 8270_BNA-Surr_ST: 44367 @ 100:200 ug/mL;		na
350588803	5	PX-S05-SS06-0412	4/27/2012 2:33:00 PM	SAMPLE	none	brown	soil	25.93 G	1 mL		1mL 8270_BNA-Surr_ST: 44367 @ 100:200 ug/mL;		na
350588804	5	PX-S05-SS07-0412	4/27/2012 2:01:00 PM	SAMPLE	none	brown	soil	25.48 G	1 mL		1mL 8270_BNA-Surr_ST: 44367 @ 100:200 ug/mL;		na
350588805	5	PX-S05-SS08-0412	4/27/2012 3:03:00 PM	SAMPLE	none	brown	clay	25.37 G	1 mL		1mL 8270_BNA-Surr_ST: 44367 @ 100:200 ug/mL;		na
350589201	2	EPAFMC-SD-30	4/26/2012 9:55:00 AM	SAMPLE	none	orange	gravel	25.15 G	1 mL		1mL 8270_BNA-Surr_ST: 44367 @ 100:200 ug/mL;		na
128824MB		128824MB		MB	none	tan	sand	20.34 G	1 mL		1mL 8270_BNA-Surr_ST: 44367 @ 100:200 ug/mL;		na
128825LCS		128825LCS		LCS	none	tan	sand	20.21 G	1 mL		250uL 8270_BNA_SPK: 45866 @ 160 ug/mL; 250uL AP-9wkg_spk: 46009 @ N/A; 250uL SOWwkg_spk: 45434 @ 160 ug/mL; 1mL 8270_BNA		na

Lab ID	Cont	Client ID	Date Samp	Type	Odor	Color	Sed	Initial	Final	pH	Standards	Cleanups	Archive
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Initial Solvent 46025

Sand 46001

Final Solvent 46025

ASE # 2

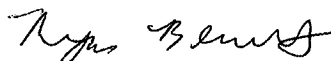
Cellulose Filter 45671

Hydromatrix 46004



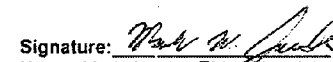
Name: Tammy Reuter Title: Prep Tech 5/4/2012 7:33:13 AM

Analyst Posted treuter Date



5/4/2012 7:35:02 AM

Peer Reviewed rbennett Date



Signature: *Mark W. Jacobs*
Name: Mark Jacobs Title: Chemist 5/4/2012 6:15:00 AM

Analyst Reviewed mjacobs Date

Comments:

Sample Comments

Lab ID	Client ID	Comments
128824MB	128824MB	
128825LCS	128825LCS	
350584301	EPAFMC-SD-07	
350584302	EPAFMC-SD-07MS	
350584303	EPAFMC-SD-07SD	
350584304	EPAFMC-SD-08	
350584305	EPAFMC-SD-09	
350584306	EPAFMC-SD-10	

Lab ID	Cont	Client ID	Date Samp	Type	Odor	Color	Sed	Initial	Final	pH	Standards	Cleanups	Archive
350584307		EPAFMC-SD-11											
350584308		EPAFMC-SD-12											
350584309		EPAFMC-SD-13											
350584310		EPAFMC-SD-14											
350584311		EPAFMC-SD-15											
350584312		EPAFMC-SD-16											
350588801		PX-S05-SS04-0412											
350588802		PX-S05-SS05-0412											
350588803		PX-S05-SS06-0412											
350588804		PX-S05-SS07-0412											
350588805		PX-S05-SS08-0412											
350589201		EPAFMC-SD-30											

3505843

STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
36199	8270_AP9MIX2	CPI	163078	8/21/2013	1 ML	8/19/2010	jacker
2000 MG/L: 0,0,0-Triethylphosphorothioate, 1-Naphthylamine, 2-Acetylaminofluorene, 2-Naphthylamine, 2-Picoline, 3,3'-Dimethylbenzidine, 4-Aminobiphenyl, 4-Nitroquinoline-1-oxide, 5-Nitro-o-toluidine, a,a-Dimethylphenethylamine, Aramite, Diallate (Avadex), Isodrin, Methapyriline, N-Nitrosodibutylamine, N-Nitrosodiethylamine, N-Nitrosomethylethylamine, N-Nitrosomorpholine, N-Nitrosopiperidine, N-Nitrosopyrrolidine, o-Toluidine, p-Dimethylaminoazobenzene, Phenacetin, p-Phenylenediamine, Pronamide							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
36863	8310_CALMX5_STK	RESTEK - 31011	A064851	1/31/2016	1 ML	9/20/2010	jacker
2000 UG/ML: Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
40392	8270_BENZID_STK	Ultra Scientific	CG-3908	12/31/2012	1 ML	3/23/2011	jacker
2000 UG/ML: 3,3'-Dichlorobenzidine, Benzidine							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
40400	8270AP9Mix1_UltSTK	Ultra - SPCT-305	CH-0586	3/31/2013	1 ML	3/23/2011	jacker
1000 MG/L: 1,2,4,5-Tetrachlorobenzene, 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 1,4-Naphthoquinone, 2,3,4,6-Tetrachlorophenol, 2,6-Dichlorophenol, 3-Methylcholanthrene, 7,12-Dimethylbenz(a)anthracene, Acetophenone, Chlorobenzilate, Dibenz(a,j)acridine, Dinoseb, Ethyl methanesulfonate, Hexachloropropene, Isosafrole, Kepone, Methylmethanesulfonate, Pentachlorobenzene, Pentachloroethane, Pentachloronitrobenzene(PCNB), Safrole							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
42031	8270_DFTPP_STK_1	NSI C-491	C-491-09	7/31/2012	1.5 ML	6/21/2011	mjacobs
500 UG/ML: 4,4'-DDT, Benzidine, Decafluorotriphenyl phosphine(DFTPP), Pentachlorophenol							

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Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
42251	8270_TOXMIX2_STK	Ultra Scientific - US	CH-1651	6/30/2014	1 ML	7/12/2011	jacker

2000 UG/ML: 2-Methylnaphthalene, 2-Nitroaniline, 3-Nitroaniline, 4-Chloroaniline, 4-Nitroaniline, Aniline, Benzyl alcohol, Dibenzofuran

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
42256	8270_ACDSURR_STK	Ultra Scientific-ISM-	CC-2529Z	12/31/2012	1 ML	7/12/2011	jacker

2000 UG/ML: 2,4,6-Tribromophenol, 2-Fluorophenol, Phenol-d5

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
43322	8270_AP9Mix1_NSISTK	NSI Q-5238	100608-01	2/28/2013	1 ML	10/7/2011	mjacobs

1000 MG/L: 1,2,4,5-Tetrachlorobenzene, 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 1,4-Naphthoquinone, 2,3,4,6-Tetrachlorophenol, 2,6-Dichlorophenol, 3-Methylcholanthrene, 7,12-Dimethylbenz(a)anthracene, Acetophenone, Chlorobenzilate, Dibenz(a,j)acridine, Dinoseb, Ethyl methanesulfonate, Hexachloropropene, Isosafrole, Kepone, Methylmethanesulfonate, Pentachlorobenzene, Pentachloroethane, Pentachloronitrobenzene(PCNB), Safrole

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
43662	8270_JS_STK	Mitkem	SI111027a	10/27/2012	10 ML	11/1/2011	cabadia

2000 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
43663	8270_JS_STK	Mitkem	SI111027a	10/27/2012	10 ML	11/1/2011	cabadia

2000 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10

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STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
43664	8270_IS_STK	Mitkem	SI111027a	10/27/2012	10 ML	11/1/2011	cabadia

2000 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44066	8270_SEC_STK	NSI Q-2945	120511-25	12/5/2012	1 ML	12/8/2011	cabadia

150 UG/ML: 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,2'-Oxybis(1-chloropropane), 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Methylphenol, 2-Nitroaniline, 2-Nitrophenol, 3,3'-Dichlorobenzidine, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl-phenylether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl-phenylether, 4-Methylphenol, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Aniline, Anthracene, Azobenzene, Benzidine, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzoic acid, Benzyl alcohol, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Carbazole, Chrysene, Dibenzo(a,h)anthracene, Dibenzofuran, Diethylphthalate, Dimethylphthalate, Di-n-butylphthalate, Di-n-octylphthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isophorone, Naphthalene, Nitrobenzene, Nitrobenzene-d5, N-Nitrosodimethylamine, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene, Pyridine

300 UG/ML: 2,4,6-Tribromophenol, 2-Fluorophenol, Phenol-d5

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44389	8270_AP9Mix2_NSISTK	NSI V-721	C-721-01	6/30/2012	1 ML	1/3/2012	NSUBAR

2000 MG/L: 0,0,0-Triethylphosphorothioate, 1-Naphthylamine, 2-Acetylaminofluorene, 2-Naphthylamine, 2-Picoline, 3,3'-Dimethylbenzidine, 4-Aminobiphenyl, 4-Nitroquinoline-1-oxide, 5-Nitro-o-toluidine, a,a-Dimethylphenethylamine, Aramite, Diallate (Avadex), Isodrin, Methapyriline, N-Nitrosodibutylamine, N-Nitrosodiethylamine, N-Nitrosomethylethylamine, N-Nitrosomorpholine, N-Nitrosopiperidine, N-Nitrosopyrrolidine, o-Toluidine, p-Dimethylaminoazobenzene, Phenacetin, p-Phenylenediamine, Pronamide

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44393	8270_Pyri_STK	NSI (W-271-06)	271-06-04	11/30/2013	1 ML	1/3/2012	NSUBAR

5000 UG/ML: Pyridine

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STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44394	8270_SOWSEC_STK	NSI Solutions C-60	C-601-13	8/31/2013	1 ML	1/3/2012	NSUBAR

2000 UG/ML: 1,1'-Biphenyl, Acetophenone, Atrazine, Benzaldehyde, Caprolactam

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44406	8270_BNMIX2_STK	Ultra Scientific US-1	CH-1791	7/31/2012	1 ml	1/4/2012	cabadia

2000 UG/ML: 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, Azobenzene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Isophorone, Nitrobenzene

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44410	8270_PHENOL_STK	Ultra Scientific US-	CE-1838Z	9/30/2013	1 ML	1/4/2012	cabadia

2000 UG/ML: 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2-Chlorophenol, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol, 4-Chloro-3-methylphenol, 4-Nitrophenol, Pentachlorophenol, Phenol

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44455	8270_BNMIX1_STK	ChemService PP-H	462-77A	2/27/2013	1 ML	1/5/2012	cabadia

2000 UG/ML: 2,2'-Oxybis(1-chloropropane), 4-Bromophenyl-phenylether, 4-Chlorophenyl-phenylether, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Diethylphthalate, Dimethylphthalate, Di-n-butylphthalate, Di-n-octylphthalate, N-Nitrosodimethylamine, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44596	DCM	Honeywell	DF388	2/11/2013	200 L	1/11/2012	treuter

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Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44612	8270_AP9SEC			6/30/2012	1 ML	1/16/2012	mjacobs
40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10 45 UG/ML: 0,0,0-Triethylphosphorothioate, 1,2,4,5-Tetrachlorobenzene, 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 1,4-Naphthoquinone, 1-Naphthylamine, 2,3,4,6-Tetrachlorophenol, 2,6-Dichlorophenol, 2-Acetylaminofluorene, 2-Naphthylamine, 2-Picoline, 3,3'-Dimethylbenzidine, 3-Methylcholanthrene, 4-Aminobiphenyl, 4-Nitroquinoline-1-oxide, 5-Nitro-o-toluidine, 7,12-Dimethylbenz(a)anthracene, a,a-Dimethylphenethylamine, Acetophenone, Aramite, Chlorobenzilate, Diallate (Avadex), Dibenz(a,j)acridine, Dinoseb, Ethyl methanesulfonate, Hexachloropropene, Isodrin, Isosafrole, Kepone, Methapyrilone, Methylmethanesulfonate, N-Nitrosodibutylamine, N-Nitrosodiethylamine, N-Nitrosomethylethylamine, N-Nitrosomorpholine, N-Nitrosopiperidine, N-Nitrosopyrrolidine, o-Toluidine, p-Dimethylaminoazobenzene, Pentachlorobenzene, Pentachloroethane, Pentachloronitrobenzene(PCNB), Phenacetin, p-Phenylenediamine, Pronamide, Safrole							
COMPOSED OF:							
44322: 45 UL 43663: 20 UL 44389: 22.5 UL 44596: 932.5 UL							
Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44815	DCM	Honeywell	DF388	1/30/2013	200 L	1/30/2012	TREUTER
Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44859	8270_SEC_WKG			8/1/2012	1 ML	2/1/2012	mjacobs
40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10 45 UG/ML: 1,1'-Biphenyl, 3,3'-Dichlorobenzidine, Acetophenone, Atrazine, Benzaldehyde, Benzidine, Caprolactam							
COMPOSED OF:							
40392: 22.5 UL 43663: 20 UL 44394: 22.5 UL 44815: 955 UL							
Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44973	8270_SOW_STK	SUPELCO - 47514-	LB84222	4/30/2013	1 UG/	2/9/2012	cabadia
2000 UG/ML: 1,1'-Biphenyl, Acetophenone, Atrazine, Benzaldehyde, Caprolactam							
Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45158	8310_AS1MN_STK	AccuStandard S-51	B6040092-1B	2/22/2014	1 ML	2/27/2012	cabadia
2000 UG/ML: 1-Methylnaphthalene							

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STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45548	DCM	Honeywell	DF740	3/28/2013	200 L	3/28/2012	dyoung

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45689	8270BNSURRSTK	NSI Solutions, Inc.	C-376-49	1/31/2014	1 ML	4/5/2012	cabadia
5000 UG/ML: 2-Fluorobiphenyl, Nitrobenzene-d5, p-Terphenyl-d14							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45713	8270_CARBZ_STK	SUPELCO 48076	LB79967	11/30/2013	1 UG/	4/5/2012	cabadia
2000 UG/ML: Carbazole							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45747	8270_TOXMIX1_STK	Ultra Scientific US-1	CG-1823	6/30/2013	1 ML	4/9/2012	cabadia
2000 UG/ML: 2,4,5-Trichlorophenol, 2-Methylphenol, 4-Methylphenol, Benzoic acid							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45777	DFTPP_std			7/31/2012	5 ML	4/10/2012	mjacobs
50 UG/ML: 4,4'-DDT, Benzidine, Decafluorotriphenyl phosphine(DFTPP), Pentachlorophenol							
COMPOSED OF:							
42031: 500 UL 45548: 4500 UL							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45850	DCM	Honeywell	DF914	4/16/2013	200 L	4/16/2012	treuter

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Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45872	8270_SEC_WKG			10/18/2012	1 ML	4/18/2012	mjacobs
40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10 45 UG/ML: 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,2'-Oxybis(1-chloropropane), 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Methylphenol, 2-Nitroaniline, 2-Nitrophenol, 3,3'-Dichlorobenzidine, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl-phenylether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl-phenylether, 4-Methylphenol, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Aniline, Anthracene, Azobenzene, Benzidine, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzoic acid, Benzyl alcohol, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Carbazole, Chrysene, Dibenzo(a,h)anthracene, Dibenzofuran, Diethylphthalate, Dimethylphthalate, Di-n-butylphthalate, Di-n-octylphthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isophorone, Naphthalene, Nitrobenzene, Nitrobenzene-d5, N-Nitrosodimethylamine, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene, Pyridine 90 UG/ML: 2,4,6-Tribromophenol, 2-Fluorophenol, Phenol-d5 COMPOSED OF: 43662: 20 UL 44066: 300 UL 45850: 700 UL							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45919	8270_TOP			7/31/2012	5 ML	4/23/2012	mjacobs
100 UG/ML: 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,2'-Oxybis(1-chloropropane), 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Methylphenol, 2-Nitroaniline, 2-Nitrophenol, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl-phenylether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl-phenylether, 4-Methylphenol, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Aniline, Anthracene, Azobenzene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzoic acid, Benzyl alcohol, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Carbazole, Chrysene, Dibenzo(a,h)anthracene, Dibenzofuran, Diethylphthalate, Dimethylphthalate, Di-n-butylphthalate, Di-n-octylphthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isophorone, Naphthalene, Nitrobenzene, Nitrobenzene-d5, N-Nitrosodimethylamine, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene, Pyridine 200 UG/ML: 2,4,6-Tribromophenol, 2-Fluorophenol, Phenol-d5 COMPOSED OF: 36863: 250 UL 42251: 250 UL 42256: 500 UL 44393: 100 UL 44406: 250 UL 44410: 250 UL 44455: 250 UL 45158: 250 UL 45689: 100 UL 45713: 250 UL 45747: 250 UL 45850: 2.3 ML							

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STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45921	8270_CAL7			7/31/2012	1 ML	4/23/2012	mjacobs
100 UG/ML: 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,2'-Oxybis(1-chloropropane), 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Methylphenol, 2-Nitroaniline, 2-Nitrophenol, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl-phenylether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl-phenylether, 4-Methylphenol, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Aniline, Anthracene, Azobenzene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzoic acid, Benzyl alcohol, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Carbazole, Chrysene, Dibenzo(a,h)anthracene, Dibenzofuran, Diethylphthalate, Dimethylphthalate, Di-n-butylphthalate, Di-n-octylphthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isophorone, Naphthalene, Nitrobenzene, Nitrobenzene-d5, N-Nitrosodimethylamine, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene, Pyridine 200 UG/ML: 2,4,6-Tribromophenol, 2-Fluorophenol, Phenol-d5 40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10 COMPOSED OF: 43664: 20 UL 45919: 1 ML							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45922	8270_CAL6			7/31/2012	1 ML	4/23/2012	mjacobs
150 UG/ML: 2,4,6-Tribromophenol, 2-Fluorophenol, Phenol-d5 40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10 75 UG/ML: 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,2'-Oxybis(1-chloropropane), 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Methylphenol, 2-Nitroaniline, 2-Nitrophenol, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl-phenylether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl-phenylether, 4-Methylphenol, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Aniline, Anthracene, Azobenzene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzoic acid, Benzyl alcohol, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Carbazole, Chrysene, Dibenzo(a,h)anthracene, Dibenzofuran, Diethylphthalate, Dimethylphthalate, Di-n-butylphthalate, Di-n-octylphthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isophorone, Naphthalene, Nitrobenzene, Nitrobenzene-d5, N-Nitrosodimethylamine, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene, Pyridine COMPOSED OF: 43664: 20 UL 45850: 250 UL 45919: 750 UL							

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STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45923	8270_CAL5			7/31/2012	1 ML	4/23/2012	mjacobs
120 UG/ML: 2,4,6-Tribromophenol, 2-Fluorophenol, Phenol-d5 40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10 60 UG/ML: 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,2'-Oxybis(1-chloropropane), 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Methylphenol, 2-Nitroaniline, 2-Nitrophenol, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl-phenylether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl-phenylether, 4-Methylphenol, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Aniline, Anthracene, Azobenzene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzoic acid, Benzyl alcohol, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Carbazole, Chrysene, Dibenzo(a,h)anthracene, Dibenzofuran, Diethylphthalate, Dimethylphthalate, Di-n-butylphthalate, Di-n-octylphthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isophorone, Naphthalene, Nitrobenzene, Nitrobenzene-d5, N-Nitrosodimethylamine, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene, Pyridine							
COMPOSED OF:							
43664: 20 UL 45850: 400 UL 45919: 600 UL							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45924	8270_CAL4			7/31/2012	1 ML	4/23/2012	mjacobs
40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10 45 UG/ML: 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,2'-Oxybis(1-chloropropane), 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Methylphenol, 2-Nitroaniline, 2-Nitrophenol, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl-phenylether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl-phenylether, 4-Methylphenol, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Aniline, Anthracene, Azobenzene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzoic acid, Benzyl alcohol, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Carbazole, Chrysene, Dibenzo(a,h)anthracene, Dibenzofuran, Diethylphthalate, Dimethylphthalate, Di-n-butylphthalate, Di-n-octylphthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isophorone, Naphthalene, Nitrobenzene, Nitrobenzene-d5, N-Nitrosodimethylamine, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene, Pyridine 90 UG/ML: 2,4,6-Tribromophenol, 2-Fluorophenol, Phenol-d5							
COMPOSED OF:							
43664: 20 UL 45850: 550 UL 45919: 450 UL							

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Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45925	8270_CAL3			7/31/2012	1 ML	4/23/2012	mjacobs
20 UG/ML: 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,2'-Oxybis(1-chloropropane), 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Methylphenol, 2-Nitroaniline, 2-Nitrophenol, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl-phenylether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl-phenylether, 4-Methylphenol, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Aniline, Anthracene, Azobenzene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzoic acid, Benzyl alcohol, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Carbazole, Chrysene, Dibenzo(a,h)anthracene, Dibenzofuran, Diethylphthalate, Dimethylphthalate, Di-n-butylphthalate, Di-n-octylphthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isophorone, Naphthalene, Nitrobenzene, Nitrobenzene-d5, N-Nitrosodimethylamine, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene, Pyridine 40 UG/ML: 1,4-Dichlorobenzene-d4, 2,4,6-Tribromophenol, 2-Fluorophenol, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10, Phenol-d5 COMPOSED OF: 43664: 20 UL 45850: 800 UL 45919: 200 UL							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45926	8270_CAL2			7/31/2012	1 ML	4/23/2012	mjacobs
10 UG/ML: 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,2'-Oxybis(1-chloropropane), 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Methylphenol, 2-Nitroaniline, 2-Nitrophenol, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl-phenylether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl-phenylether, 4-Methylphenol, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Aniline, Anthracene, Azobenzene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzoic acid, Benzyl alcohol, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Carbazole, Chrysene, Dibenzo(a,h)anthracene, Dibenzofuran, Diethylphthalate, Dimethylphthalate, Di-n-butylphthalate, Di-n-octylphthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isophorone, Naphthalene, Nitrobenzene, Nitrobenzene-d5, N-Nitrosodimethylamine, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene, Pyridine 20 UG/ML: 2,4,6-Tribromophenol, 2-Fluorophenol, Phenol-d5 40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10 COMPOSED OF: 43664: 20 UL 45850: 900 UL 45919: 100 UL							

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Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45927	8270_CAL1			7/31/2012	1 ML	4/23/2012	mjacobs
4 UG/ML: 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,2'-Oxybis(1-chloropropane), 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Methylphenol, 2-Nitroaniline, 2-Nitrophenol, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl-phenylether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl-phenylether, 4-Methylphenol, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Aniline, Anthracene, Azobenzene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzoic acid, Benzyl alcohol, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Carbazole, Chrysene, Dibenzo(a,h)anthracene, Dibenzofuran, Diethylphthalate, Dimethylphthalate, Di-n-butylphthalate, Di-n-octylphthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isophorone, Naphthalene, Nitrobenzene, Nitrobenzene-d5, N-Nitrosodimethylamine, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene, Pyridine 40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10 8 UG/ML: 2,4,6-Tribromophenol, 2-Fluorophenol, Phenol-d5							
COMPOSED OF:							
43664: 20 UL 45850: 960 UL 45919: 40 UL							
Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45932	8270_TOP			10/23/2012	5 ML	4/23/2012	mjacobs
100 UG/ML: 1,1'-Biphenyl, 3,3'-Dichlorobenzidine, Acetophenone, Atrazine, Benzaldehyde, Benzidine, Caprolactam							
COMPOSED OF:							
40392: 250 UL 44973: 250 UL 45850: 4500 UL							
Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45933	8270_CAL7			10/23/2012	1 ML	4/23/2012	mjacobs
100 UG/ML: 1,1'-Biphenyl, 3,3'-Dichlorobenzidine, Acetophenone, Atrazine, Benzaldehyde, Benzidine, Caprolactam 40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10							
COMPOSED OF:							
43664: 20 UL 45932: 1 ML							
Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45934	8270_CAL6			10/23/2012	1 ML	4/23/2012	mjacobs
40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10 75 UG/ML: 1,1'-Biphenyl, 3,3'-Dichlorobenzidine, Acetophenone, Atrazine, Benzaldehyde, Benzidine, Caprolactam							

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STANDARDS LOG

COMPOSED OF:

43664: 20 UL 45850: 250 UL 45932: 750 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45935	8270_CAL5			10/23/2012	1 ML	4/23/2012	mjacobs
40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10 60 UG/ML: 1,1'-Biphenyl, 3,3'-Dichlorobenzidine, Acetophenone, Atrazine, Benzaldehyde, Benzidine, Caprolactam							

COMPOSED OF:

43664: 20 UL 45850: 400 UL 45932: 600 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45936	8270_CAL4			10/23/2012	1 ML	4/23/2012	mjacobs
40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10 45 UG/ML: 1,1'-Biphenyl, 3,3'-Dichlorobenzidine, Acetophenone, Atrazine, Benzaldehyde, Benzidine, Caprolactam							

COMPOSED OF:

43664: 20 UL 45850: 550 UL 45932: 450 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45937	8270_CAL3			10/23/2012	1 ML	4/23/2012	mjacobs
20 UG/ML: 1,1'-Biphenyl, 3,3'-Dichlorobenzidine, Acetophenone, Atrazine, Benzaldehyde, Benzidine, Caprolactam 40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10							

COMPOSED OF:

43664: 20 UL 45850: 800 UL 45932: 200 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45938	8270_CAL2			10/23/2012	1 ML	4/23/2012	mjacobs
10 UG/ML: 1,1'-Biphenyl, 3,3'-Dichlorobenzidine, Acetophenone, Atrazine, Benzaldehyde, Benzidine, Caprolactam 40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10							

COMPOSED OF:

43664: 20 UL 45850: 900 UL 45932: 100 UL

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STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45939	8270_CAL1			10/23/2012	1 ML	4/23/2012	mjacobs
4 UG/ML: 1,1'-Biphenyl, 3,3'-Dichlorobenzidine, Acetophenone, Atrazine, Benzaldehyde, Benzidine, Caprolactam 40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10							
COMPOSED OF:							
43664: 20 UL 45850: 960 UL 45932: 40 UL							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45940	AP9_TOP			10/23/2012	5 ML	4/23/2012	mjacobs
100 UG/ML: 0,0,0-Triethylphosphorothioate, 1,2,4,5-Tetrachlorobenzene, 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 1,4-Naphthoquinone, 1-Naphthylamine, 2,3,4,6-Tetrachlorophenol, 2,6-Dichlorophenol, 2-Acetylaminofluorene, 2-Naphthylamine, 2-Picoline, 3,3'-Dimethylbenzidine, 3-Methylcholanthrene, 4-Aminobiphenyl, 4-Nitroquinoline-1-oxide, 5-Nitro-o-toluidine, 7,12-Dimethylbenz(a)anthracene, a,a-Dimethylphenethylamine, Acetophenone, Aramite, Chlorobenzilate, Diallate (Avadex), Dibenz(a,j)acridine, Dinoseb, Ethyl methanesulfonate, Hexachloropropene, Isodrin, Isosafrole, Kepone, Methapyriline, Methylmethanesulfonate, N-Nitrosodibutylamine, N-Nitrosodiethylamine, N-Nitrosomethylethylamine, N-Nitrosomorpholine, N-Nitrosopiperidine, N-Nitrosopyrrolidine, o-Toluidine, p-Dimethylaminoazobenzene, Pentachlorobenzene, Pentachloroethane, Pentachloronitrobenzene(PCNB), Phenacetin, p-Phenylenediamine, Pronamide, Safrole							
COMPOSED OF:							
36199: 250 UL 40400: 500 UL 45850: 4250 UL							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45955	AP9_CAL7			10/23/2012	1 ML	4/23/2012	mjacobs
100 UG/ML: 0,0,0-Triethylphosphorothioate, 1,2,4,5-Tetrachlorobenzene, 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 1,4-Naphthoquinone, 1-Naphthylamine, 2,3,4,6-Tetrachlorophenol, 2,6-Dichlorophenol, 2-Acetylaminofluorene, 2-Naphthylamine, 2-Picoline, 3,3'-Dimethylbenzidine, 3-Methylcholanthrene, 4-Aminobiphenyl, 4-Nitroquinoline-1-oxide, 5-Nitro-o-toluidine, 7,12-Dimethylbenz(a)anthracene, a,a-Dimethylphenethylamine, Acetophenone, Aramite, Chlorobenzilate, Diallate (Avadex), Dibenz(a,j)acridine, Dinoseb, Ethyl methanesulfonate, Hexachloropropene, Isodrin, Isosafrole, Kepone, Methapyriline, Methylmethanesulfonate, N-Nitrosodibutylamine, N-Nitrosodiethylamine, N-Nitrosomethylethylamine, N-Nitrosomorpholine, N-Nitrosopiperidine, N-Nitrosopyrrolidine, o-Toluidine, p-Dimethylaminoazobenzene, Pentachlorobenzene, Pentachloroethane, Pentachloronitrobenzene(PCNB), Phenacetin, p-Phenylenediamine, Pronamide, Safrole							
40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10							
COMPOSED OF:							
43664: 20 UL 45850: 0 ML 45940: 1 ML							

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STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45956	AP9_CAL6			10/23/2012	1 ML	4/23/2012	mjacobs
40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10 75 UG/ML: 0,0,0-Triethylphosphorothioate, 1,2,4,5-Tetrachlorobenzene, 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 1,4-Naphthoquinone, 1-Naphthylamine, 2,3,4,6-Tetrachlorophenol, 2,6-Dichlorophenol, 2-Acetylaminofluorene, 2-Naphthylamine, 2-Picoline, 3,3'-Dimethylbenzidine, 3-Methylcholanthrene, 4-Aminobiphenyl, 4-Nitroquinoline-1-oxide, 5-Nitro-o-toluidine, 7,12-Dimethylbenz(a)anthracene, a,a-Dimethylphenethylamine, Acetophenone, Aramite, Chlorobenzilate, Diallate (Avadex), Dibenz(a,j)acridine, Dinoseb, Ethyl methanesulfonate, Hexachloropropene, Isodrin, Isosafrole, Kepone, Methapyriline, Methylmethanesulfonate, N-Nitrosodibutylamine, N-Nitrosodiethylamine, N-Nitrosomethylethylamine, N-Nitrosomorpholine, N-Nitrosopiperidine, N-Nitrosopyrrolidine, o-Toluidine, p-Dimethylaminoazobenzene, Pentachlorobenzene, Pentachloroethane, Pentachloronitrobenzene(PCNB), Phenacetin, p-Phenylenediamine, Pronamide, Safrole							

COMPOSED OF:

43664: 20 UL 45850: 250 UL 45940: 750 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45957	AP9_CAL5			10/23/2012	1 ML	4/23/2012	mjacobs
40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10 60 UG/ML: 0,0,0-Triethylphosphorothioate, 1,2,4,5-Tetrachlorobenzene, 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 1,4-Naphthoquinone, 1-Naphthylamine, 2,3,4,6-Tetrachlorophenol, 2,6-Dichlorophenol, 2-Acetylaminofluorene, 2-Naphthylamine, 2-Picoline, 3,3'-Dimethylbenzidine, 3-Methylcholanthrene, 4-Aminobiphenyl, 4-Nitroquinoline-1-oxide, 5-Nitro-o-toluidine, 7,12-Dimethylbenz(a)anthracene, a,a-Dimethylphenethylamine, Acetophenone, Aramite, Chlorobenzilate, Diallate (Avadex), Dibenz(a,j)acridine, Dinoseb, Ethyl methanesulfonate, Hexachloropropene, Isodrin, Isosafrole, Kepone, Methapyriline, Methylmethanesulfonate, N-Nitrosodibutylamine, N-Nitrosodiethylamine, N-Nitrosomethylethylamine, N-Nitrosomorpholine, N-Nitrosopiperidine, N-Nitrosopyrrolidine, o-Toluidine, p-Dimethylaminoazobenzene, Pentachlorobenzene, Pentachloroethane, Pentachloronitrobenzene(PCNB), Phenacetin, p-Phenylenediamine, Pronamide, Safrole							

COMPOSED OF:

43664: 20 UL 45850: 400 UL 45940: 600 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45958	AP9_CAL4			10/23/2012	1 ML	4/23/2012	mjacobs
40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10 45 UG/ML: 0,0,0-Triethylphosphorothioate, 1,2,4,5-Tetrachlorobenzene, 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 1,4-Naphthoquinone, 1-Naphthylamine, 2,3,4,6-Tetrachlorophenol, 2,6-Dichlorophenol, 2-Acetylaminofluorene, 2-Naphthylamine, 2-Picoline, 3,3'-Dimethylbenzidine, 3-Methylcholanthrene, 4-Aminobiphenyl, 4-Nitroquinoline-1-oxide, 5-Nitro-o-toluidine, 7,12-Dimethylbenz(a)anthracene, a,a-Dimethylphenethylamine, Acetophenone, Aramite, Chlorobenzilate, Diallate (Avadex), Dibenz(a,j)acridine, Dinoseb, Ethyl methanesulfonate, Hexachloropropene, Isodrin, Isosafrole, Kepone, Methapyriline, Methylmethanesulfonate, N-Nitrosodibutylamine, N-Nitrosodiethylamine, N-Nitrosomethylethylamine, N-Nitrosomorpholine, N-Nitrosopiperidine, N-Nitrosopyrrolidine, o-Toluidine, p-Dimethylaminoazobenzene, Pentachlorobenzene, Pentachloroethane, Pentachloronitrobenzene(PCNB), Phenacetin, p-Phenylenediamine, Pronamide, Safrole							

COMPOSED OF:

43664: 20 UL 45850: 550 UL 45940: 450 UL

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STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45959	AP9_CAL3			10/23/2012	1 ML	4/23/2012	mjacobs
20 UG/ML: 0,0,0-Triethylphosphorothioate, 1,2,4,5-Tetrachlorobenzene, 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 1,4-Naphthoquinone, 1-Naphthylamine, 2,3,4,6-Tetrachlorophenol, 2,6-Dichlorophenol, 2-Acetylaminofluorene, 2-Naphthylamine, 2-Picoline, 3,3'-Dimethylbenzidine, 3-Methylcholanthrene, 4-Aminobiphenyl, 4-Nitroquinoline-1-oxide, 5-Nitro-o-toluidine, 7,12-Dimethylbenz(a)anthracene, a,a-Dimethylphenethylamine, Acetophenone, Aramite, Chlorobenzilate, Diallate (Avadex), Dibenz(a,j)acridine, Dinoseb, Ethyl methanesulfonate, Hexachloropropene, Isodrin, Isosafrole, Kepone, Methapyriline, Methylmethanesulfonate, N-Nitrosodibutylamine, N-Nitrosodiethylamine, N-Nitrosomethylethylamine, N-Nitrosomorpholine, N-Nitrosopiperidine, N-Nitrosopyrrolidine, o-Toluidine, p-Dimethylaminoazobenzene, Pentachlorobenzene, Pentachloroethane, Pentachloronitrobenzene(PCNB), Phenacetin, p-Phenylenediamine, Pronamide, Safrole 40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10							

COMPOSED OF:

43664: 20 UL 45850: 800 UL 45940: 200 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45960	AP9_CAL2			10/23/2012	1 ML	4/23/2012	mjacobs
10 UG/ML: 0,0,0-Triethylphosphorothioate, 1,2,4,5-Tetrachlorobenzene, 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 1,4-Naphthoquinone, 1-Naphthylamine, 2,3,4,6-Tetrachlorophenol, 2,6-Dichlorophenol, 2-Acetylaminofluorene, 2-Naphthylamine, 2-Picoline, 3,3'-Dimethylbenzidine, 3-Methylcholanthrene, 4-Aminobiphenyl, 4-Nitroquinoline-1-oxide, 5-Nitro-o-toluidine, 7,12-Dimethylbenz(a)anthracene, a,a-Dimethylphenethylamine, Acetophenone, Aramite, Chlorobenzilate, Diallate (Avadex), Dibenz(a,j)acridine, Dinoseb, Ethyl methanesulfonate, Hexachloropropene, Isodrin, Isosafrole, Kepone, Methapyriline, Methylmethanesulfonate, N-Nitrosodibutylamine, N-Nitrosodiethylamine, N-Nitrosomethylethylamine, N-Nitrosomorpholine, N-Nitrosopiperidine, N-Nitrosopyrrolidine, o-Toluidine, p-Dimethylaminoazobenzene, Pentachlorobenzene, Pentachloroethane, Pentachloronitrobenzene(PCNB), Phenacetin, p-Phenylenediamine, Pronamide, Safrole 40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10							

COMPOSED OF:

43664: 20 UL 45850: 900 UL 45940: 100 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45961	AP9_CAL1			10/23/2012	1 ML	4/23/2012	mjacobs
4 UG/ML: 0,0,0-Triethylphosphorothioate, 1,2,4,5-Tetrachlorobenzene, 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 1,4-Naphthoquinone, 1-Naphthylamine, 2,3,4,6-Tetrachlorophenol, 2,6-Dichlorophenol, 2-Acetylaminofluorene, 2-Naphthylamine, 2-Picoline, 3,3'-Dimethylbenzidine, 3-Methylcholanthrene, 4-Aminobiphenyl, 4-Nitroquinoline-1-oxide, 5-Nitro-o-toluidine, 7,12-Dimethylbenz(a)anthracene, a,a-Dimethylphenethylamine, Acetophenone, Aramite, Chlorobenzilate, Diallate (Avadex), Dibenz(a,j)acridine, Dinoseb, Ethyl methanesulfonate, Hexachloropropene, Isodrin, Isosafrole, Kepone, Methapyriline, Methylmethanesulfonate, N-Nitrosodibutylamine, N-Nitrosodiethylamine, N-Nitrosomethylethylamine, N-Nitrosomorpholine, N-Nitrosopiperidine, N-Nitrosopyrrolidine, o-Toluidine, p-Dimethylaminoazobenzene, Pentachlorobenzene, Pentachloroethane, Pentachloronitrobenzene(PCNB), Phenacetin, p-Phenylenediamine, Pronamide, Safrole 40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10							

COMPOSED OF:

43663: 20 UL 45850: 960 UL 45940: 40 UL

3505843

1013

PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3042312.b\DFTPP2.D
 Lab Smp Id: 45777 Client Smp ID: DFTPP2
 Inj Date : 23-APR-2012 10:03
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 45777
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3042312.b\DoDTUN.m
 Meth Date : 25-Apr-2012 09:57 mjacobs Quant Type: ISTD
 Cal Date : 23-MAR-2009 02:58 Cal File: AP9CAL1.D
 Als bottle: 100 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: SVECD04

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS								
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1	dftpp						CAS #: 5074-71-5	
7.567	7.728	(0.000)	198	344704			0.00- 100.00	100.00
7.567	7.728	(0.000)	51	104160			10.00- 80.00	30.22
7.567	7.728	(0.000)	68	2221			0.00- 2.00	1.30
7.567	7.728	(0.000)	69	170304			0.00- 0.00	49.41
7.567	7.728	(0.000)	70	1411			0.00- 2.00	0.83
7.567	7.728	(0.000)	127	155456			10.00- 80.00	45.10
7.567	7.728	(0.000)	197	1301			0.00- 2.00	0.38
7.567	7.728	(0.000)	199	24088			5.00- 9.00	6.99
7.567	7.728	(0.000)	275	113728			10.00- 60.00	32.99
7.567	7.728	(0.000)	365	22552			1.00- 0.00	6.54
7.567	7.728	(0.000)	441	46584			0.01- 24.00	14.69
7.567	7.728	(0.000)	442	317120			50.00- 0.00	92.00
7.567	7.728	(0.000)	443	59536			15.00- 24.00	18.77

Data File: \\Svecd04\DD\chem\smsd03.i\S3042312,b\DFTPP2.D

Date : 23-APR-2012 10:03

Client ID: DFTPP2

Sample Info: 45777

Volume Injected (uL): 1.0

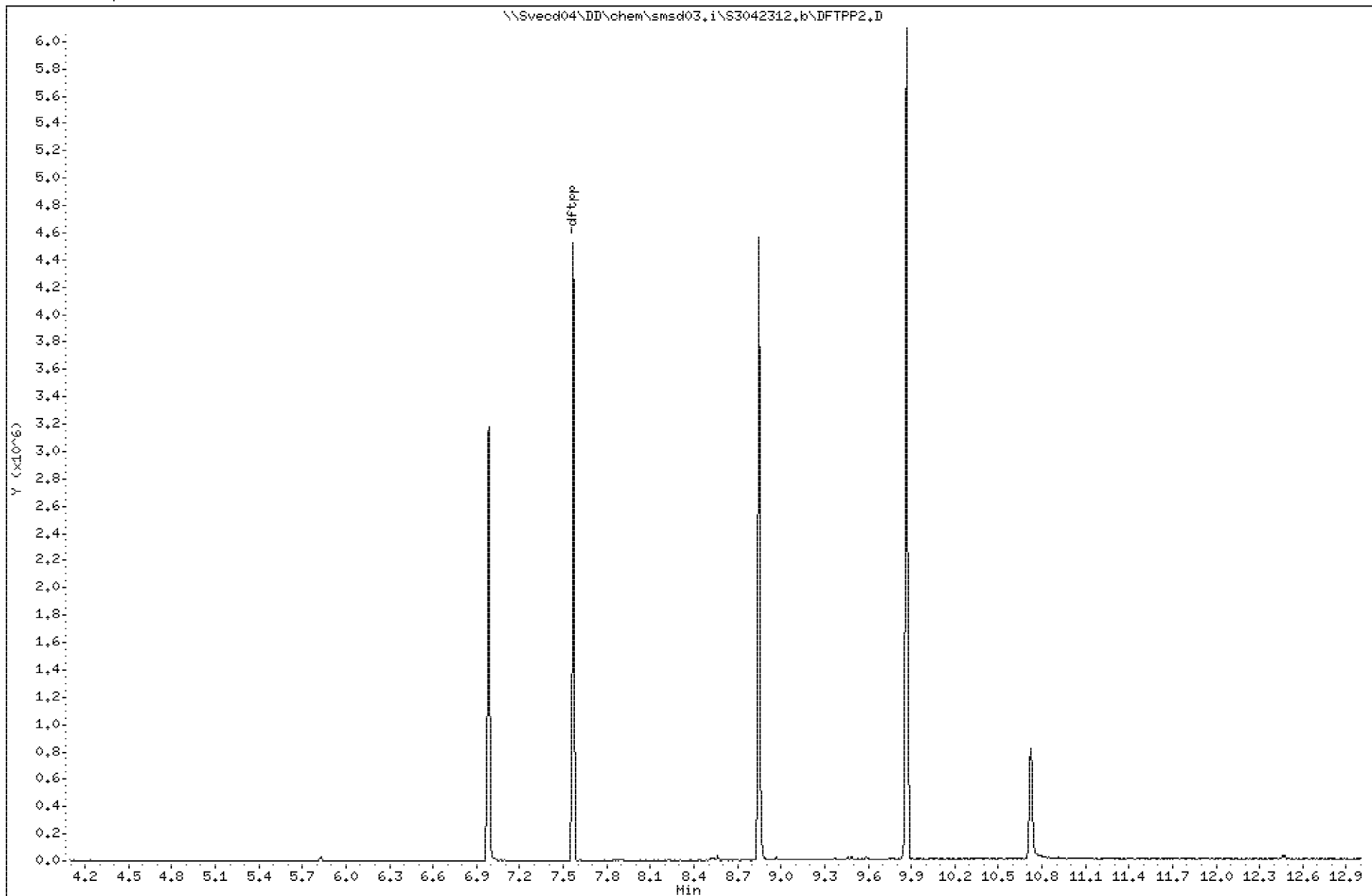
Column phase:

Instrument: smsd03.i

Operator: PEL

Column diameter: 2.00

\\Svecd04\DD\chem\smsd03.i\S3042312,b\DFTPP2.D



Date : 23-APR-2012 10:03

Client ID: DFTPP2

Instrument: smsd03.i

Sample Info: 45777

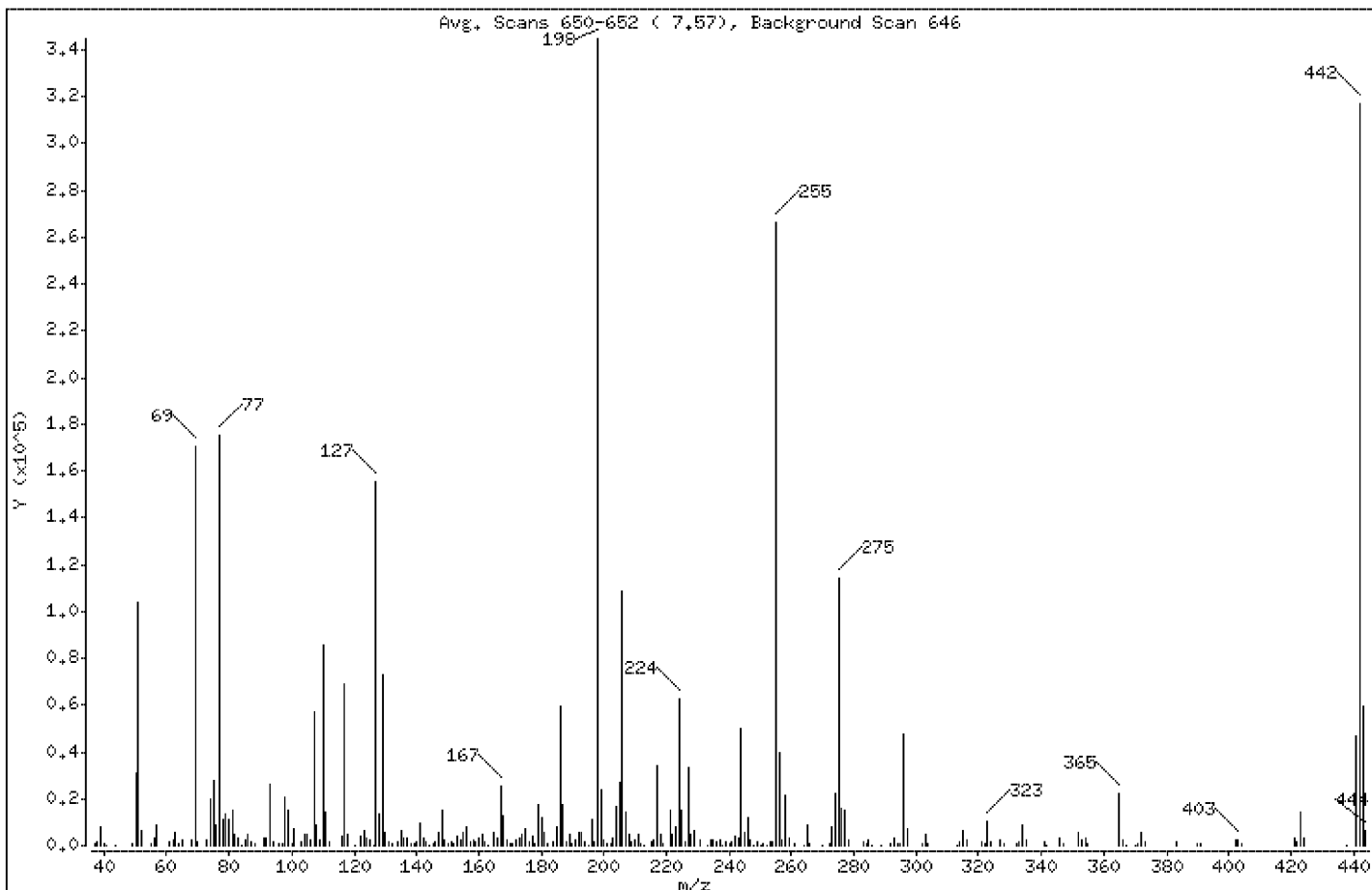
Volume Injected (uL): 1.0

Operator: PEL

Column phase:

Column diameter: 2.00

1 dfppp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	30.22
68	Less than 2.00% of mass 69	0.64 (1.30)
69	Mass 69 relative abundance	49.41
70	Less than 2.00% of mass 69	0.41 (0.83)
127	10.00 - 80.00% of mass 198	45.10
197	Less than 2.00% of mass 198	0.38
199	5.00 - 9.00% of mass 198	6.99
275	10.00 - 60.00% of mass 198	32.99
365	Greater than 1.00% of mass 198	6.54
441	0.01 - 24.00% of mass 442	13.51 (14.69)
442	Greater than 50.00% of mass 198	92.00
443	15.00 - 24.00% of mass 442	17.27 (18.77)

Data File: \\Svecd04\DD\chem\smsd03.i\S3042312.b\DFTPP2.D

Date : 23-APR-2012 10:03

Client ID: DFTPP2

Instrument: smsd03.i

Sample Info: 45777

Volume Injected (uL): 1.0

Operator: PEL

Column phase:

Column diameter: 2.00

Data File: DFTPP2.D

Spectrum: Avg. Scans 650-652 (7.57), Background Scan 646

Location of Maximum: 198.00

Number of points: 262

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	589	127.00	155456	196.00	10704	273.00	8306
38.00	1689	128.00	13113	197.00	1301	274.00	22016
39.00	7956	129.00	72672	198.00	344704	275.00	113728
40.00	535	130.00	5600	199.00	24088	276.00	16119
41.00	284	131.00	1584	200.00	2091	277.00	14851
44.00	144	132.00	515	201.00	646	278.00	2563
49.00	1023	134.00	1794	202.00	618	283.00	1624
50.00	31128	135.00	6192	203.00	2919	284.00	967
51.00	104160	136.00	2905	204.00	16592	285.00	2168
52.00	6424	137.00	2966	205.00	27224	286.00	254
55.00	832	138.00	545	206.00	108192	289.00	229
56.00	3464	139.00	586	207.00	13916	292.00	669
57.00	8522	140.00	1385	208.00	4936	293.00	2892
61.00	1912	141.00	9733	209.00	1853	294.00	601
62.00	2008	142.00	3388	210.00	2239	295.00	825
63.00	5832	143.00	1779	211.00	4570	296.00	47528
64.00	1123	144.00	391	212.00	875	297.00	7191
65.00	2644	145.00	830	213.00	222	302.00	622
68.00	2221	146.00	1818	215.00	1763	303.00	4915
69.00	170304	147.00	5839	216.00	2579	304.00	908
70.00	1411	148.00	15262	217.00	33760	313.00	348
73.00	2307	149.00	2575	218.00	4753	314.00	1593
74.00	19784	150.00	588	219.00	558	315.00	6014
75.00	27672	151.00	1974	221.00	14704	316.00	2274
76.00	8735	152.00	430	222.00	4917	321.00	1211
77.00	175232	153.00	3713	223.00	8033	322.00	932
78.00	11193	154.00	2459	224.00	62208	323.00	10362
79.00	13519	155.00	5773	225.00	15374	324.00	1677
80.00	10871	156.00	8248	226.00	1464	327.00	2403
81.00	14718	157.00	1423	227.00	33128	328.00	1159
82.00	4596	158.00	2154	228.00	5079	332.00	697
83.00	2850	159.00	1342	229.00	6300	333.00	1246
84.00	323	160.00	3383	231.00	2416	334.00	8422
85.00	2310	161.00	4957	233.00	222	335.00	2144
86.00	4725	162.00	1481	234.00	2272	341.00	1496

Data File: \\Svecd04\DD\chem\smsd03.i\S3042312.b\DFTPP2.D

Date : 23-APR-2012 10:03

Client ID: DFTPP2

Instrument: smsd03.i

Sample Info: 45777

Volume Injected (uL): 1.0

Operator: PEL

Column phase:

Column diameter: 2.00

Data File: DFTPP2.D
Spectrum: Avg. Scans 650-652 (7.57), Background Scan 646
Location of Maximum: 198.00
Number of points: 262

m/z	Y	m/z	Y	m/z	Y	m/z	Y
87.00	1718	163.00	304	235.00	2509	342.00	238
88.00	752	165.00	5494	236.00	1551	346.00	3167
91.00	2877	166.00	2948	237.00	2525	347.00	657
92.00	3113	167.00	25504	238.00	240	352.00	5475
93.00	26480	168.00	12785	239.00	1224	353.00	2516
94.00	1717	169.00	2468	240.00	876	354.00	3263
96.00	563	170.00	617	241.00	1649	355.00	530
97.00	578	171.00	1168	242.00	4260	365.00	22552
98.00	20552	172.00	2207	243.00	3310	366.00	2510
99.00	14698	173.00	3156	244.00	49856	367.00	278
100.00	1025	174.00	4913	245.00	5861	370.00	288
101.00	6948	175.00	7366	246.00	12161	371.00	875
103.00	1839	176.00	1828	247.00	2380	372.00	5508
104.00	4549	177.00	4000	248.00	272	373.00	1391
105.00	4939	178.00	1063	249.00	1758	383.00	1583
106.00	2191	179.00	17400	250.00	307	390.00	486
107.00	56936	180.00	11496	251.00	1007	391.00	634
108.00	8504	181.00	5288	252.00	283	402.00	1997
109.00	2042	182.00	731	253.00	1206	403.00	2132
110.00	85648	184.00	1372	254.00	1228	404.00	684
111.00	14535	185.00	8132	255.00	266368	421.00	2887
112.00	1433	186.00	59200	256.00	39488	422.00	1870
116.00	3771	187.00	17760	257.00	2744	423.00	14582
117.00	68712	188.00	1857	258.00	21064	424.00	3223
118.00	4892	189.00	4687	259.00	3413	438.00	219
120.00	221	190.00	780	261.00	634	441.00	46584
122.00	3882	191.00	2125	264.00	332	442.00	317120
123.00	6128	192.00	5565	265.00	8449	443.00	59536
124.00	3395	193.00	5318	266.00	1025	444.00	6035
125.00	2503	194.00	1299	270.00	305		
126.00	240	195.00	260	272.00	795		

DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 04/23/2012 10:23

Datafile Analyzed: //Svecd04/DD/chem/smsd03.i/S3042312.b/DFTPP2.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 04/25/2012 09:58

Datafile Analyzed: //Svecd04/DD/chem/smsd03.i/S3042312.b/DFTPP2.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 04/25/2012 10:00

Datafile Analyzed: //Svecd04/DD/chem/smsd03.i/S3042312.b/DFTPP2.D

PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270CAL7.D
 Lab Smp Id: 45921 Client Smp ID: 8270CAL7
 Inj Date : 23-APR-2012 10:23 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 45921
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270bcs.m
 Meth Date : 25-Apr-2012 09:57 mjacobs Quant Type: ISTD
 Cal Date : 17-APR-2012 23:38 Cal File: AP9CAL4.D
 Als bottle: 1 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: 8270caln.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
2 Pyridine CAS #: 110-86-1									
2.381	2.381	(0.535)	79	1401787	100.000	101	80.00- 120.00	100.00(A)	
2.381	2.381	(0.535)	52	533240			7.01- 67.01	38.04	
M 16 Cresols (Total) CAS #: 1319-77-3									
				2580149	200.000			(a)	
1 N-Nitrosodimethylamine CAS #: 62-75-9									
2.342	2.338	(0.526)	42	619633	100.000	98.7	80.00- 120.00	100.00	
2.342	2.338	(0.526)	74	875795			112.35- 172.35	141.34	
2.342	2.338	(0.526)	44	25228			0.00- 34.21	4.07	
\$ 6 2-Fluorophenol (SURR) CAS #: 367-12-4									
3.385	3.383	(0.761)	112	2191983	200.000	205	80.00- 120.00	100.00(TQ)	
3.384	3.383	(0.761)	64	1404139			33.15- 93.15	64.06	
\$ 11 Phenol-d5 (SURR) CAS #: 4165-62-2									
4.147	4.139	(0.932)	99	2929019	200.000	204	80.00- 120.00	100.00(TQ)	
4.146	4.139	(0.932)	42	593015			0.00- 48.89	20.25	
4.147	4.139	(0.932)	71	1597450			23.76- 83.76	54.54	
13 Phenol CAS #: 108-95-2									
4.158	4.151	(0.934)	94	1779497	100.000	109	80.00- 120.00	100.00(TAQ)	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
13 Phenol (continued)									
4.159	4.151	(0.935)	65	1034654			31.39- 91.39	58.14	
4.159	4.151	(0.935)	66	1878228			81.48- 141.48	105.55	

10 Aniline									
						CAS #: 62-53-3			
4.170	4.166	(0.937)	93	1778451	100.000	103	80.00- 120.00	100.00(AQ)	
4.159	4.166	(0.935)	65	1034668			26.91- 86.91	58.18	
4.159	4.166	(0.935)	66	1878231			73.34- 133.34	105.61	

14 Bis(2-Chloroethyl)ether									
						CAS #: 111-44-4			
4.216	4.210	(0.947)	93	1049452	100.000	103	80.00- 120.00	100.00(AQ)	
4.215	4.210	(0.947)	63	754811			42.30- 102.30	71.92	
4.216	4.210	(0.947)	95	341117			1.53- 61.53	32.50	

15 2-Chlorophenol									
						CAS #: 95-57-8			
4.282	4.278	(0.962)	128	1116184	100.000	104	80.00- 120.00	100.00(A)	
4.281	4.278	(0.962)	64	598128			20.72- 80.72	53.59	
4.282	4.278	(0.962)	130	365387			2.39- 62.39	32.74	

17 1,3-Dichlorobenzene									
						CAS #: 541-73-1			
4.403	4.401	(0.990)	146	1349146	100.000	103	80.00- 120.00	100.00(A)	
4.404	4.401	(0.990)	148	916623			36.16- 96.16	67.94	
4.403	4.401	(0.989)	111	611686			16.14- 76.14	45.34	

* 18 1,4-Dichlorobenzene-d4									
						CAS #: 3855-82-1			
4.450	4.448	(1.000)	152	369613	40.0000		80.00- 120.00	100.00(Q)	
4.450	4.448	(1.000)	115	232248			32.20- 92.20	62.84	
4.451	4.448	(1.000)	150	712699			139.77- 199.77	192.82	

19 1,4-Dichlorobenzene									
						CAS #: 106-46-7			
4.465	4.462	(1.003)	146	1413402	100.000	102	80.00- 120.00	100.00(A)	
4.465	4.462	(1.003)	148	965798			38.09- 98.09	68.33	
4.465	4.462	(1.003)	111	621154			14.50- 74.50	43.95	

21 Benzyl alcohol									
						CAS #: 100-51-6			
4.574	4.567	(1.028)	108	798558	100.000	109	80.00- 120.00	100.00(AQ)	
4.574	4.567	(1.028)	79	1317077			152.29- 212.29	164.93	
4.574	4.567	(1.028)	77	920759			97.26- 157.26	115.30	

20 1,2-Dichlorobenzene									
						CAS #: 95-50-1			
4.602	4.599	(1.034)	146	1300899	100.000	103	80.00- 120.00	100.00(A)	
4.602	4.599	(1.034)	148	882508			38.32- 98.32	67.84	
4.601	4.599	(1.034)	111	611019			18.14- 78.14	46.97	

22 2-Methylphenol									
						CAS #: 95-48-7			
4.675	4.671	(1.051)	107	1071606	100.000	111	80.00- 120.00	100.00(AQ)	
4.675	4.671	(1.051)	108	1173347			82.43- 142.43	109.49	
4.676	4.671	(1.051)	79	894287			55.43- 115.43	83.45	

23 2,2'-oxybis(1-chloropropane)									
						CAS #: 108-60-1			
4.679	4.675	(1.051)	45	765861	100.000	107	80.00- 120.00	100.00(AQ)	
4.676	4.675	(1.051)	77	998136			102.98- 162.98	130.33	
4.679	4.675	(1.051)	121	412918			24.22- 84.22	53.92	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
28 4-Methylphenol					CAS #: 106-44-5				
4.815	4.808	(1.082)	107	1508543	100.000	108	80.00- 120.00	100.00(AQ)	
4.815	4.808	(1.082)	108	1255130			50.54- 110.54	83.20	
4.815	4.808	(1.082)	79	499414			2.76- 62.76	33.11	

26 N-Nitrosodipropylamine					CAS #: 621-64-7				
4.807	4.798	(1.080)	70	1155441	100.000	106	80.00- 120.00	100.00(A)	
4.807	4.798	(1.080)	42	442548			6.87- 66.87	38.30	
4.809	4.798	(1.081)	130	238532			0.00- 49.23	20.64	

30 Hexachloroethane					CAS #: 67-72-1				
4.904	4.902	(1.102)	117	568048	100.000	104	80.00- 120.00	100.00(TAQ)	
4.904	4.902	(1.102)	201	667512			90.07- 150.07	117.51	
4.904	4.902	(1.102)	199	416256			43.69- 103.69	73.28	

\$ 31 Nitrobenzene-d5 (SURR)					CAS #: 4165-60-0				
4.950	4.944	(0.882)	82	1664154	100.000	102	80.00- 120.00	100.00	
4.950	4.944	(0.882)	128	571503			2.76- 62.76	34.34	
4.949	4.944	(0.882)	54	640024			7.08- 67.08	38.46	

32 Nitrobenzene					CAS #: 98-95-3				
4.968	4.962	(0.885)	77	1628107	100.000	101	80.00- 120.00	100.00(TAQ)	
4.968	4.962	(0.885)	123	593499			4.18- 64.18	36.45	
4.967	4.962	(0.885)	65	251383			0.00- 45.17	15.44	

34 Isophorone					CAS #: 78-59-1				
5.187	5.176	(0.924)	82	1966364	100.000	100	80.00- 120.00	100.00(TA)	
5.187	5.176	(0.924)	138	323866			0.00- 46.29	16.47	
5.187	5.176	(0.924)	95	178310			0.00- 39.21	9.07	

35 2-Nitrophenol					CAS #: 88-75-5				
5.257	5.253	(0.937)	139	636335	100.000	107	80.00- 120.00	100.00(AQ)	
5.256	5.253	(0.936)	65	445399			43.34- 103.34	69.99	
5.257	5.253	(0.937)	109	315180			20.91- 80.91	49.53	

36 2,4-Dimethylphenol					CAS #: 105-67-9				
5.300	5.294	(0.944)	122	943605	100.000	103	80.00- 120.00	100.00(AQ)	
5.300	5.294	(0.944)	107	1308624			111.45- 171.45	138.68	
5.300	5.294	(0.944)	121	575675			28.89- 88.89	61.01	

38 Bis(2-Chloroethoxy)methane					CAS #: 111-91-1				
5.375	5.369	(0.958)	93	1375581	100.000	104	80.00- 120.00	100.00(AQ)	
5.375	5.369	(0.958)	95	464140			3.06- 63.06	33.74	
5.375	5.369	(0.958)	123	168603			0.00- 44.40	12.26	

40 Benzoic Acid					CAS #: 65-85-0				
5.443	5.404	(0.970)	122	667982	100.000	100	80.00- 120.00	100.00(AQ)	
5.442	5.404	(0.970)	105	924754			107.67- 167.67	138.44	
5.442	5.404	(0.970)	77	911936			104.37- 164.37	136.52	

41 2,4-Dichlorophenol					CAS #: 120-83-2				
5.494	5.490	(0.979)	162	1153270	100.000	107	80.00- 120.00	100.00(A)	
5.494	5.490	(0.979)	164	768382			36.50- 96.50	66.63	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
41 2,4-Dichlorophenol (continued)									
5.494	5.490	(0.979)	98	402045			5.73- 65.73	34.86	

42 1,2,4-Trichlorobenzene CAS #: 120-82-1									
5.558	5.555	(0.990)	180	1397695	100.000	104	80.00- 120.00	100.00(AQ)	
5.558	5.555	(0.990)	182	1341367			67.47- 127.47	95.97	
5.558	5.555	(0.990)	145	404353			0.00- 58.13	28.93	

* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.613	5.610	(1.000)	136	1206741	40.0000		80.00- 120.00	100.00	
5.613	5.610	(1.000)	68	67100			0.00- 35.51	5.56	

44 Naphthalene CAS #: 91-20-3									
5.634	5.630	(1.004)	128	3031558	100.000	97.9	80.00- 120.00	100.00(Q)	
5.634	5.630	(1.004)	129	400597			0.00- 41.28	13.21	
5.635	5.630	(1.004)	127	471485			0.00- 43.27	15.55	

45 4-Chloroaniline CAS #: 106-47-8									
5.686	5.681	(1.013)	127	1320840	100.000	101	80.00- 120.00	100.00(AQ)	
5.686	5.681	(1.013)	129	443875			2.39- 62.39	33.61	
5.686	5.681	(1.013)	65	529784			11.54- 71.54	40.11	

48 Hexachlorobutadiene CAS #: 87-68-3									
5.749	5.746	(1.024)	225	1086012	100.000	105	80.00- 120.00	100.00(A)	
5.749	5.746	(1.024)	223	690338			32.02- 92.02	63.57	
5.749	5.746	(1.024)	227	708317			34.54- 94.54	65.22	

51 4-Chloro-3-methylphenol CAS #: 59-50-7									
6.162	6.158	(1.098)	107	1096336	100.000	106	80.00- 120.00	100.00(AQ)	
6.162	6.158	(1.098)	144	288067			0.00- 55.95	26.28	
6.162	6.158	(1.098)	142	854950			44.47- 104.47	77.98	

53 2-Methylnaphthalene CAS #: 91-57-6									
6.293	6.289	(1.121)	142	2328304	100.000	103	80.00- 120.00	100.00(AQ)	
6.293	6.289	(1.121)	141	2021877			58.08- 118.08	86.84	

54 1-Methylnaphthalene CAS #: 90-12-0									
6.390	6.385	(1.138)	142	2142579	100.000	105	80.00- 120.00	100.00(AQ)	
6.390	6.385	(1.138)	141	1908794			61.72- 121.72	89.09	

55 Hexachlorocyclopentadiene CAS #: 77-47-4									
6.448	6.445	(0.882)	237	1394430	100.000	109	80.00- 120.00	100.00(A)	
6.447	6.445	(0.882)	235	886974			33.37- 93.37	63.61	
6.448	6.445	(0.882)	272	196544			0.00- 43.74	14.09	

57 2,4,6-Trichlorophenol CAS #: 88-06-2									
6.623	6.620	(0.906)	196	1080093	100.000	107	80.00- 120.00	100.00(A)	
6.622	6.620	(0.906)	198	1038484			67.07- 127.07	96.15	
6.623	6.620	(0.906)	200	343515			1.30- 61.30	31.80	

58 2,4,5-Trichlorophenol CAS #: 95-95-4									
6.574	6.570	(0.899)	196	999447	100.000	107	80.00- 120.00	100.00(A)	
6.574	6.570	(0.899)	198	962661			69.46- 129.46	96.32	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
58 2,4,5-Trichlorophenol (continued)								
6.573	6.570 (0.899)		97	626005			34.72- 94.72	62.64

\$ 59 2-Fluorobiphenyl (SURR) CAS #: 321-60-8								
6.649	6.644 (0.910)		172	3092684	100.000	98.8	80.00- 120.00	100.00
6.649	6.644 (0.910)		171	1223430			5.03- 65.03	39.56

62 2-Chloronaphthalene CAS #: 91-58-7								
6.767	6.763 (0.926)		162	2441676	100.000	103	80.00- 120.00	100.00(A)
6.767	6.763 (0.926)		164	897352			4.20- 64.20	36.75
6.767	6.763 (0.926)		127	993346			7.85- 67.85	40.68

63 2-Nitroaniline CAS #: 88-74-4								
6.875	6.869 (0.941)		65	852429	100.000	104	80.00- 120.00	100.00(AQ)
6.875	6.869 (0.941)		92	532431			30.25- 90.25	62.46
6.876	6.869 (0.941)		138	728040			52.43- 112.43	85.41

65 Dimethylphthalate CAS #: 131-11-3								
7.047	7.040 (0.964)		163	2643552	100.000	97.0	80.00- 120.00	100.00
7.047	7.040 (0.964)		194	168630			0.00- 35.55	6.38
7.046	7.040 (0.964)		164	306081			0.00- 40.55	11.58

68 Acenaphthylene CAS #: 208-96-8								
7.172	7.167 (0.981)		152	3442374	100.000	98.1	80.00- 120.00	100.00(Q)
7.171	7.167 (0.981)		151	804693			0.00- 50.50	23.38
7.171	7.167 (0.981)		153	558146			0.00- 43.76	16.21

67 2,6-Dinitrotoluene CAS #: 606-20-2								
7.108	7.100 (0.973)		165	636319	100.000	103	80.00- 120.00	100.00(AQ)
7.107	7.100 (0.972)		89	495601			49.02- 109.02	77.89
7.107	7.100 (0.972)		63	467309			44.86- 104.86	73.44

69 3-Nitroaniline CAS #: 99-09-2								
7.280	7.271 (0.996)		138	563494	100.000	103	80.00- 120.00	100.00(AQ)
7.280	7.271 (0.996)		108	59889			0.00- 41.32	10.63
7.280	7.271 (0.996)		92	736657			100.05- 160.05	130.73

* 70 Acenaphthene-d10 CAS #: 15067-26-2								
7.309	7.305 (1.000)		164	808987	40.0000		80.00- 120.00	100.00
7.309	7.305 (1.000)		162	765828			64.73- 124.73	94.67
7.309	7.305 (1.000)		160	350574			12.46- 72.46	43.33

71 Acenaphthene CAS #: 83-32-9								
7.343	7.338 (1.005)		154	2251571	100.000	106	80.00- 120.00	100.00(A)
7.343	7.338 (1.005)		153	2403221			78.46- 138.46	106.74
7.343	7.338 (1.005)		152	1233015			23.44- 83.44	54.76

72 2,4-Dinitrophenol CAS #: 51-28-5								
7.376	7.369 (1.009)		184	443646	100.000	100	80.00- 120.00	100.00
7.375	7.369 (1.009)		63	353739			48.07- 108.07	79.73
7.376	7.369 (1.009)		154	292686			39.61- 99.61	65.97

74 4-Nitrophenol CAS #: 100-02-7								
7.480	7.476 (1.023)		109	626012	100.000	105	80.00- 120.00	100.00(AQ)

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
74 4-Nitrophenol (continued)									
7.480	7.476	(1.023)	139	392945			26.63-	86.63	62.77
7.479	7.476	(1.023)	65	700484			81.59-	141.59	111.90

75 Dibenzofuran CAS #: 132-64-9									
7.511	7.506	(1.028)	168	3466790	100.000	100	80.00-	120.00	100.00(AQ)
7.511	7.506	(1.028)	139	1612047			12.75-	72.75	46.50

76 2,4-Dinitrotoluene CAS #: 121-14-2									
7.502	7.494	(1.026)	165	944318	100.000	109	80.00-	120.00	100.00(AQ)
7.503	7.494	(1.026)	63	971768			82.10-	142.10	102.91
7.502	7.494	(1.026)	89	938093			72.08-	132.08	99.34

80 Diethylphthalate CAS #: 84-66-2									
7.736	7.729	(1.058)	149	2470184	100.000	98.2	80.00-	120.00	100.00(Q)
7.737	7.729	(1.059)	177	621855			0.00-	53.36	25.17
7.736	7.729	(1.058)	150	338821			0.00-	42.43	13.72

81 Fluorene CAS #: 86-73-7									
7.846	7.841	(1.073)	166	3192400	100.000	106	80.00-	120.00	100.00(AQ)
7.846	7.841	(1.073)	165	3011142			65.55-	125.55	94.32
7.846	7.841	(1.073)	167	540430			0.00-	44.15	16.93

82 4-Chlorophenyl-phenylether CAS #: 7005-72-3									
7.843	7.838	(1.073)	204	2009610	100.000	112	80.00-	120.00	100.00(A)
7.843	7.838	(1.073)	206	742625			4.27-	64.27	36.95
7.842	7.838	(1.073)	141	1152506			24.97-	84.97	57.35

84 4-Nitroaniline CAS #: 100-01-6									
7.889	7.874	(1.079)	138	493317	100.000	104	80.00-	120.00	100.00(AQ)
7.889	7.874	(1.079)	92	319536			38.02-	98.02	64.77
7.889	7.874	(1.079)	108	732073			124.92-	184.92	148.40

85 4,6-Dinitro-2-methylphenol CAS #: 534-52-1									
7.907	7.896	(0.902)	198	659425	100.000	102	80.00-	120.00	100.00(AQ)
7.906	7.896	(0.902)	51	243271			6.77-	66.77	36.89
7.906	7.896	(0.902)	105	259018			8.50-	68.50	39.28

86 N-Nitrosodiphenylamine CAS #: 86-30-6									
7.964	7.956	(0.909)	169	1848840	100.000	104	80.00-	120.00	100.00(AQ)
7.964	7.956	(0.909)	168	1224134			36.61-	96.61	66.21
7.964	7.956	(0.909)	167	672585			4.62-	64.62	36.38

87 1,2-Diphenylhydrazine CAS #: 122-66-7									
7.999	7.992	(1.094)	77	2765772	100.000	95.6	80.00-	120.00	100.00(QM)
8.000	7.992	(1.094)	105	411578			0.00-	43.34	14.88
8.001	7.992	(1.095)	182	796534			0.00-	56.11	28.80

88 2,4,6-Tribromophenol (SURR) CAS #: 118-79-6									
8.090	8.083	(1.107)	330	1256660	200.000	222	80.00-	120.00	100.00
8.090	8.083	(1.107)	332	1224675			66.43-	126.43	97.45
8.088	8.083	(1.107)	141	497979			9.24-	69.24	39.63

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
93 4-Bromophenylphenylether					CAS #: 101-55-3			
8.323	8.318	(0.950)	248	1116077	100.000	108	80.00- 120.00	100.00(AQ)
8.323	8.318	(0.950)	250	1099271			67.36- 127.36	98.49
8.321	8.318	(0.949)	141	753656			35.77- 95.77	67.53
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94 Hexachlorobenzene					CAS #: 118-74-1			
8.392	8.387	(0.957)	284	1309846	100.000	110	80.00- 120.00	100.00(A)
8.390	8.387	(0.957)	142	433692			2.39- 62.39	33.11
8.391	8.387	(0.957)	249	407079			0.06- 60.06	31.08
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96 Pentachlorophenol					CAS #: 87-86-5			
8.589	8.585	(0.980)	266	784371	100.000	112	80.00- 120.00	100.00(A)
8.588	8.585	(0.980)	264	492898			33.70- 93.70	62.84
8.588	8.585	(0.980)	268	514109			35.26- 95.26	65.54
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* 100 Phenanthrene-d10					CAS #: 1517-22-2			
8.764	8.761	(1.000)	188	1410856	40.0000		80.00- 120.00	100.00
8.763	8.761	(1.000)	94	88153			0.00- 36.35	6.25
8.763	8.761	(1.000)	80	105474			0.00- 37.82	7.48
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101 Phenanthrene					CAS #: 85-01-8			
8.790	8.785	(1.003)	178	3518447	100.000	96.8	80.00- 120.00	100.00(Q)
8.790	8.785	(1.003)	179	661146			0.00- 46.33	18.79
8.790	8.785	(1.003)	176	828642			0.00- 50.11	23.55
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103 Anthracene					CAS #: 120-12-7			
8.840	8.835	(1.009)	178	3497170	100.000	96.6	80.00- 120.00	100.00(Q)
8.840	8.835	(1.009)	179	675684			0.00- 45.97	19.32
8.840	8.835	(1.009)	176	801353			0.00- 49.80	22.91
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104 Carbazole					CAS #: 86-74-8			
9.001	8.996	(1.027)	167	3000820	100.000	99.5	80.00- 120.00	100.00(Q)
9.001	8.996	(1.027)	139	458323			0.00- 43.89	15.27
9.001	8.996	(1.027)	83	217728			0.00- 36.17	7.26
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105 Di-n-butylphthalate					CAS #: 84-74-2			
9.331	9.327	(1.065)	149	3710629	100.000	97.4	80.00- 120.00	100.00(Q)
9.331	9.327	(1.065)	150	451839			0.00- 40.04	12.18
9.330	9.327	(1.065)	104	349913			0.00- 37.79	9.43
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109 Fluoranthene					CAS #: 206-44-0			
9.958	9.953	(1.136)	202	3994284	100.000	95.8	80.00- 120.00	100.00(Q)
9.957	9.953	(1.136)	101	348784			0.00- 36.69	8.73
9.958	9.953	(1.136)	203	865630			0.00- 48.82	21.67
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111 Pyrene					CAS #: 129-00-0			
10.182	10.176	(0.896)	202	4225041	100.000	82.1	80.00- 120.00	100.00(Q)
10.183	10.176	(0.896)	200	1085583			0.00- 51.88	25.69
10.182	10.176	(0.896)	203	978374			0.00- 49.33	23.16
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\$ 112 Terphenyl-d14 (SURR)					CAS #: 1718-51-0			
10.328	10.322	(0.909)	244	4027426	100.000	82.4	80.00- 120.00	100.00
10.327	10.322	(0.909)	122	354203			0.00- 36.72	8.79

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 112 Terphenyl-d14 (SURR) (continued)								
10.328	10.322	(0.909)	212	386178			0.00- 38.06	9.59

118 Butylbenzylphthalate					CAS #: 85-68-7			
10.803	10.798	(0.951)	149	2200511	100.000	98.8	80.00- 120.00	100.00(Q)
10.803	10.798	(0.951)	91	1773106			51.57- 111.57	80.58
10.804	10.798	(0.951)	206	605030			0.00- 55.14	27.49

120 Benzo[a]anthracene					CAS #: 56-55-3			
11.355	11.348	(0.999)	228	5488919	100.000	84.4	80.00- 120.00	100.00
11.355	11.348	(0.999)	229	1546781			0.00- 51.57	28.18
11.355	11.348	(0.999)	226	2024809			0.00- 58.54	36.89

* 121 Chrysene-d12					CAS #: 1719-03-5			
11.365	11.359	(1.000)	240	2589107	40.0000		80.00- 120.00	100.00
11.363	11.359	(1.000)	120	184418			0.00- 36.38	7.12
11.365	11.359	(1.000)	236	718879			0.00- 57.06	27.77

123 Chrysene					CAS #: 218-01-9			
11.393	11.384	(1.002)	228	4565007	100.000	80.1	80.00- 120.00	100.00
11.393	11.384	(1.003)	226	1746007			1.12- 61.12	38.25
11.393	11.384	(1.002)	229	1239567			0.00- 51.74	27.15

124 Bis-2-Ethylhexylphthalate					CAS #: 117-81-7			
11.356	11.350	(0.999)	149	3621435	100.000	94.0	80.00- 120.00	100.00(Q)
11.356	11.350	(0.999)	167	1459722			2.07- 62.07	40.31
11.357	11.350	(0.999)	279	459262			0.00- 39.24	12.68

125 Di-n-octylphthalate					CAS #: 117-84-0			
11.955	11.948	(0.942)	149	4297273	100.000	95.9	80.00- 120.00	100.00(Q)
11.956	11.948	(0.942)	167	104838			0.00- 31.74	2.44
11.955	11.948	(0.942)	43	444477			0.00- 38.21	10.34

127 Benzo[b]fluoranthene					CAS #: 205-99-2			
12.346	12.333	(0.973)	252	5339267	100.000	96.6	80.00- 120.00	100.00
12.346	12.333	(0.973)	253	1486806			0.00- 54.02	27.85
12.345	12.333	(0.973)	125	342580			0.00- 34.93	6.42

128 Benzo[k]fluoranthene					CAS #: 207-08-9			
12.372	12.359	(0.975)	252	4887777	100.000	88.0	80.00- 120.00	100.00
12.372	12.359	(0.975)	253	1536401			0.00- 53.57	31.43
12.371	12.359	(0.975)	125	399745			0.00- 35.26	8.18

129 Benzo[a]pyrene					CAS #: 50-32-8			
12.643	12.630	(0.996)	252	5163071	100.000	95.6	80.00- 120.00	100.00(Q)
12.644	12.630	(0.996)	253	1429998			0.00- 54.04	27.70
12.643	12.630	(0.996)	125	361809			0.00- 35.52	7.01

* 130 Perylene-d12					CAS #: 1520-96-3			
12.692	12.682	(1.000)	264	2080005	40.0000		80.00- 120.00	100.00
12.693	12.682	(1.000)	260	521746			0.00- 54.80	25.08
12.693	12.682	(1.000)	265	482217			0.00- 53.39	23.18

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====
133 Indeno[1,2,3-cd]pyrene				CAS #: 193-39-5				
13.772	13.749	(1.085)	276	6537649	100.000	97.1	80.00- 120.00	100.00(Q)
13.773	13.749	(1.085)	138	1042120			0.00- 42.48	15.94
13.773	13.749	(1.085)	277	1945129			0.00- 56.82	29.75

134 Dibenz[a,h]anthracene				CAS #: 53-70-3				
13.777	13.755	(1.085)	278	5650056	100.000	96.1	80.00- 120.00	100.00(Q)
13.775	13.755	(1.085)	139	615462			0.00- 37.70	10.89
13.777	13.755	(1.085)	279	1683921			0.00- 54.57	29.80

135 Benzo[g,h,i]perylene				CAS #: 191-24-2				
14.078	14.053	(1.109)	276	4563017	100.000	88.7	80.00- 120.00	100.00
14.076	14.053	(1.109)	138	516508			0.00- 40.01	11.32
14.078	14.053	(1.109)	277	1191628			0.00- 54.80	26.11

QC Flag Legend

- T - Target compound detected outside RT window.
- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

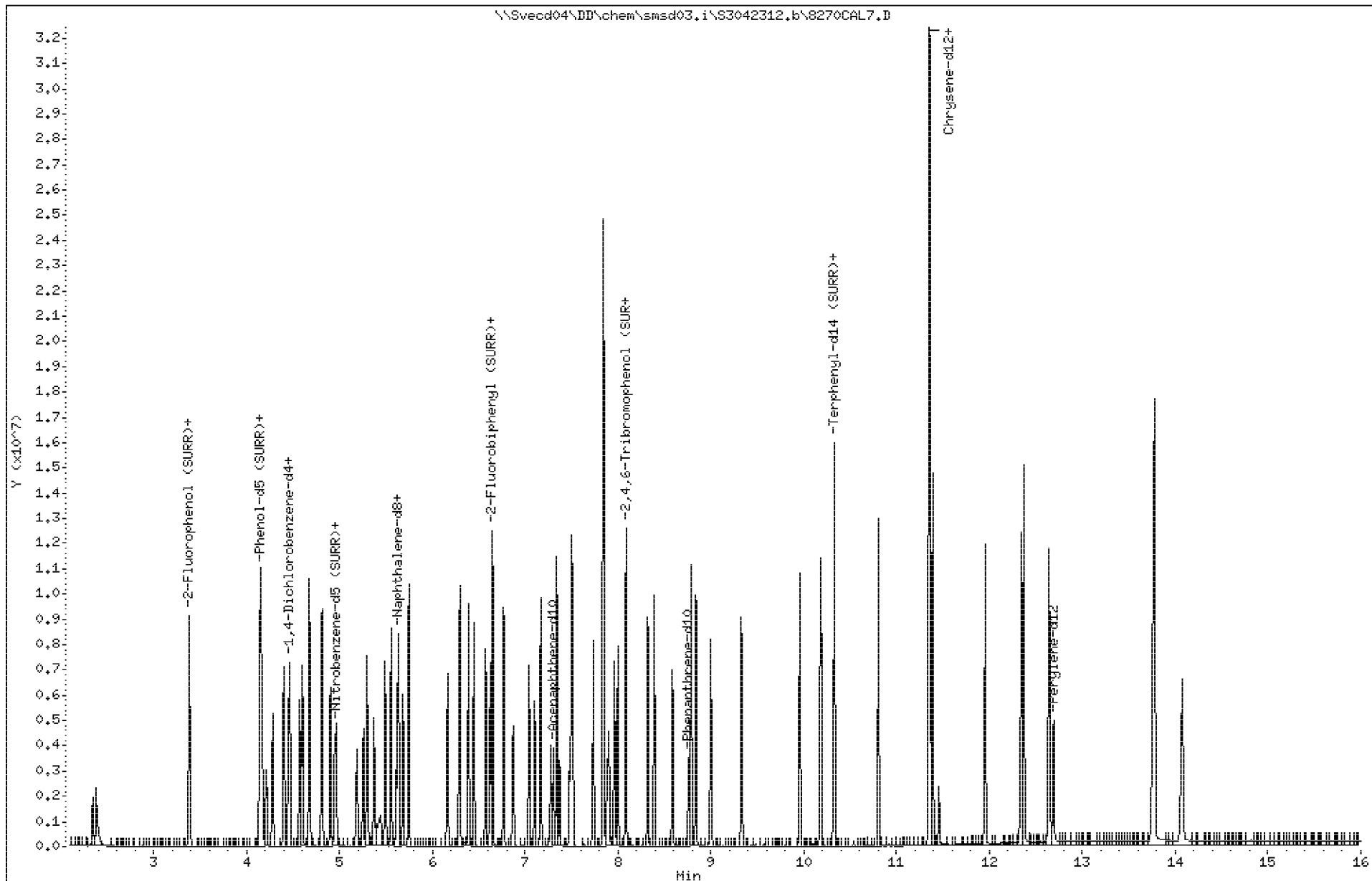
Sample Info: 45921

Operator: PEL

Purge Volume: 1000.0

Column diameter: 0.25

Column phase: HPMS-5



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

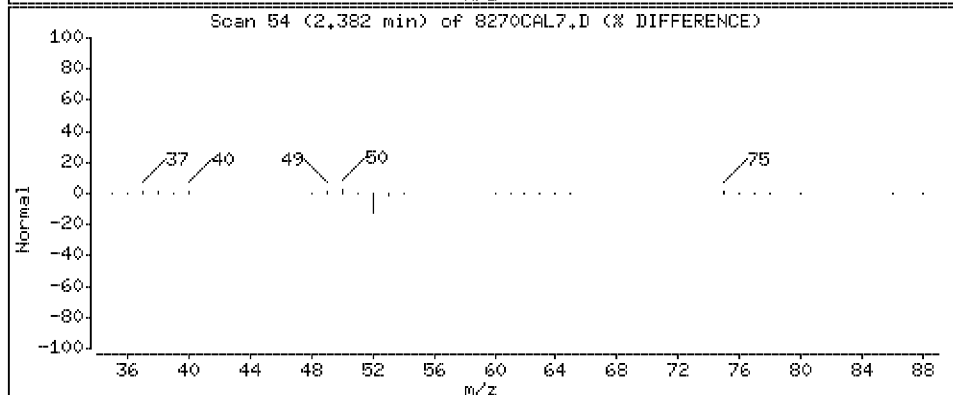
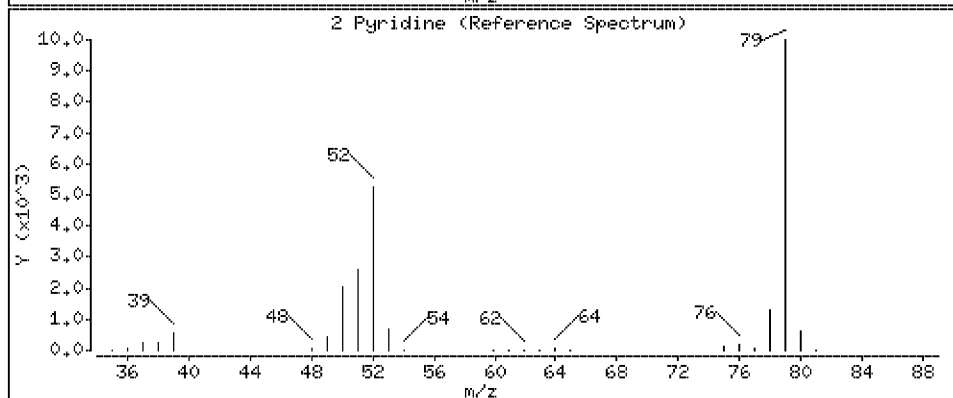
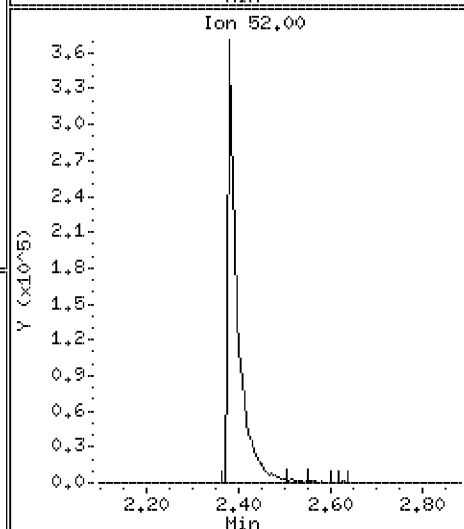
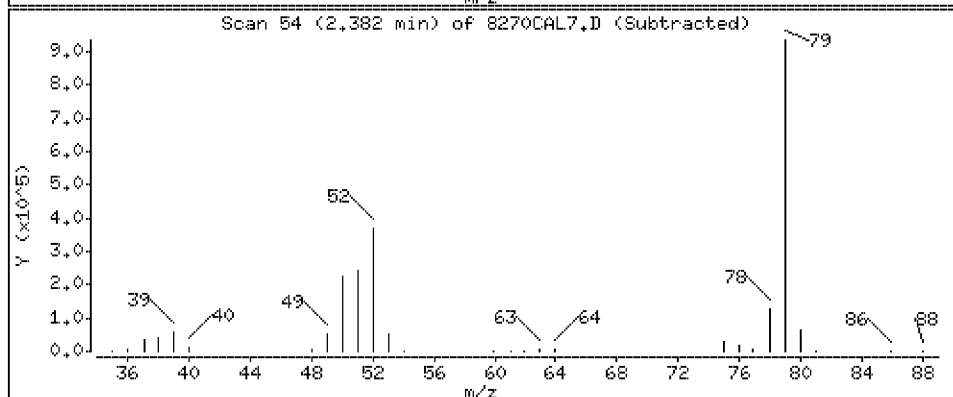
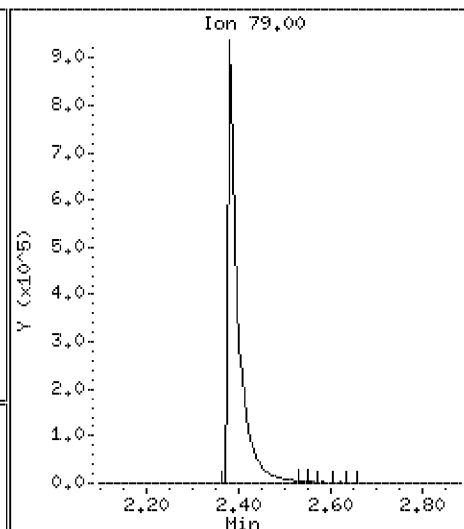
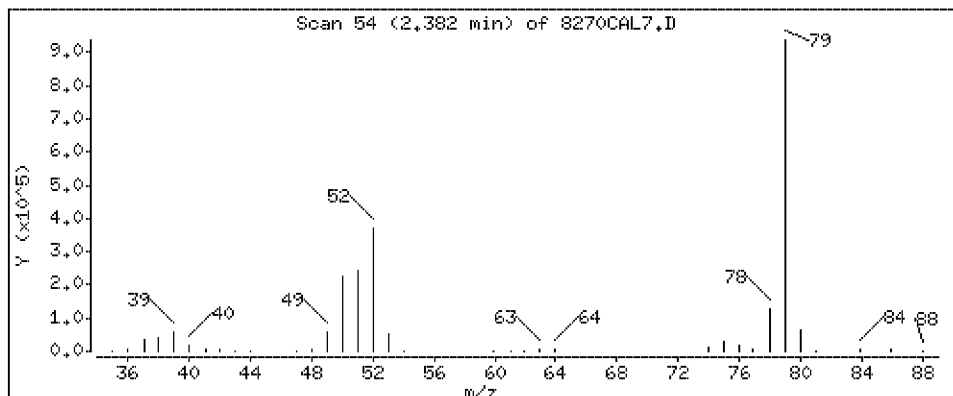
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

2 Pyridine

Concentration: 101 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

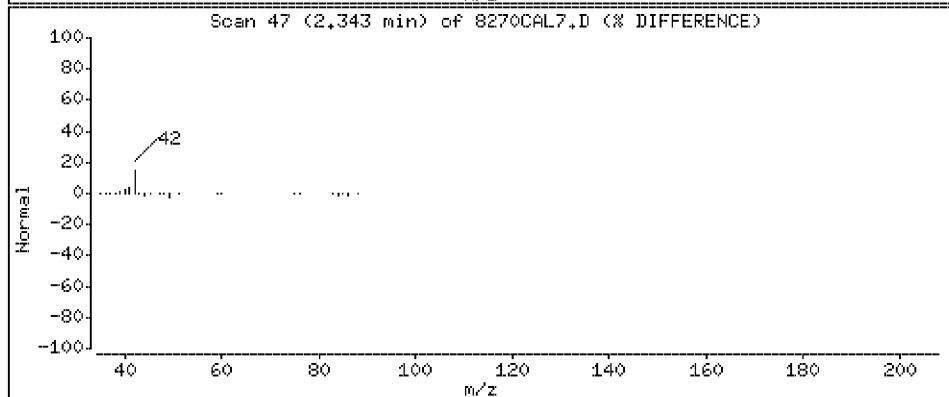
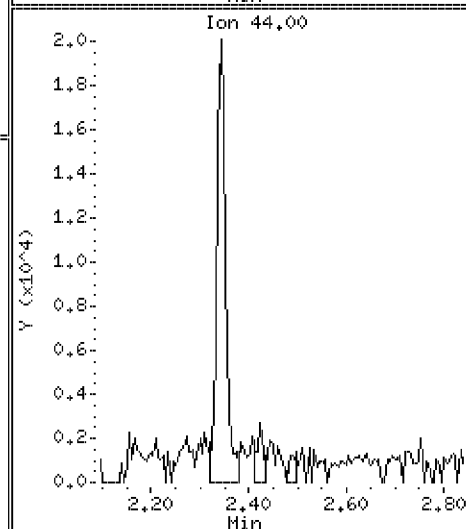
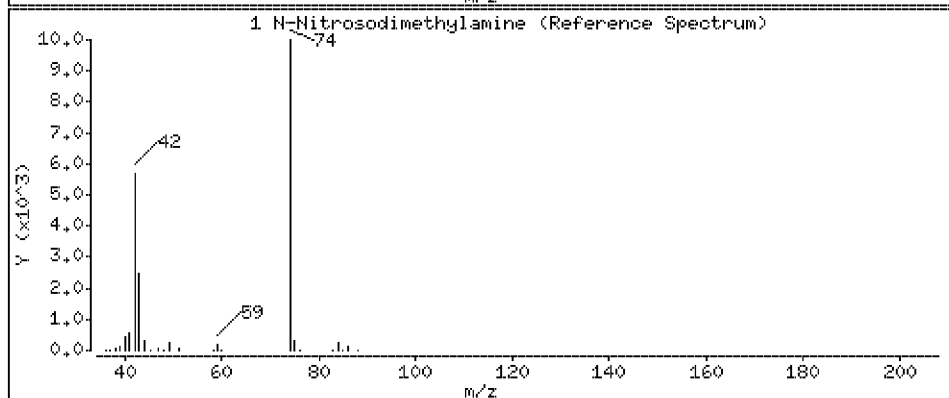
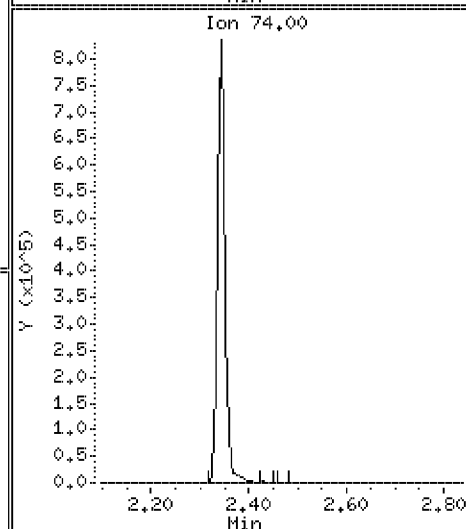
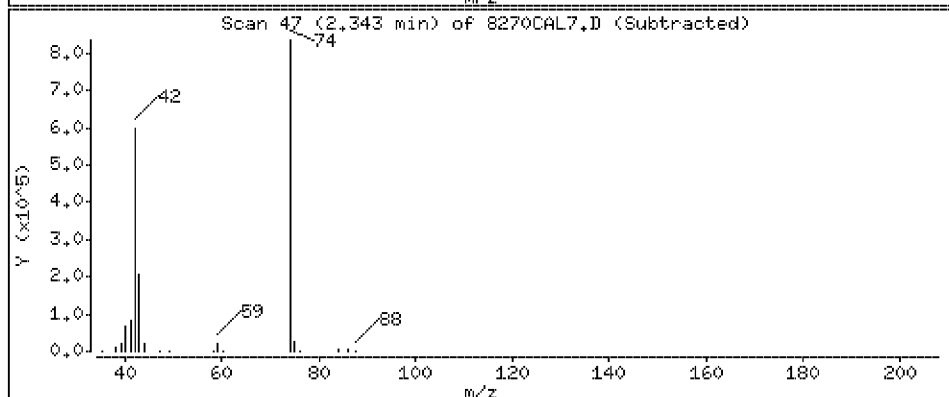
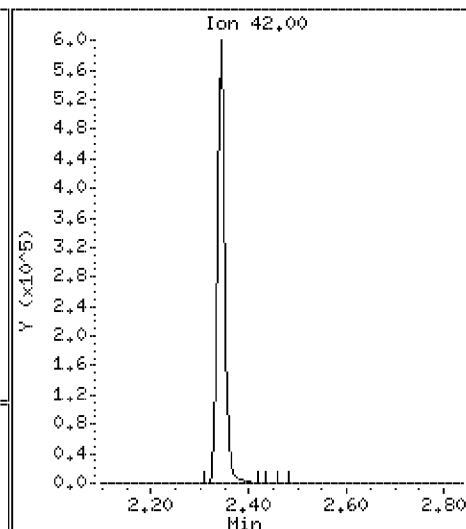
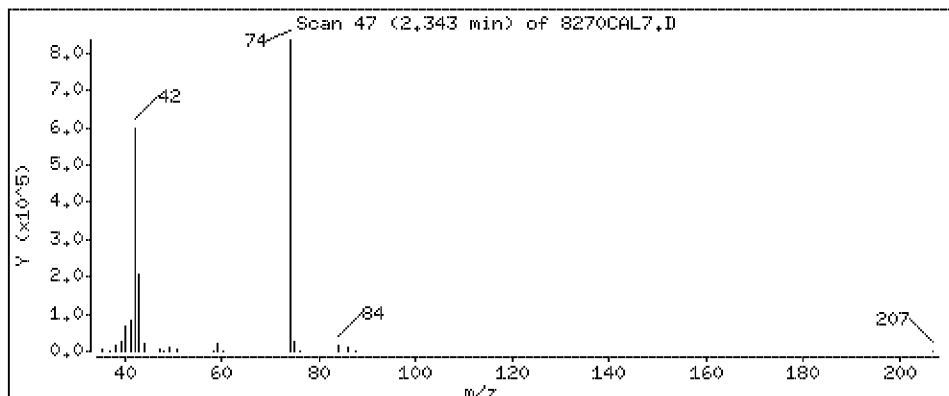
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

1 N-Nitrosodimethylamine

Concentration: 98.7 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

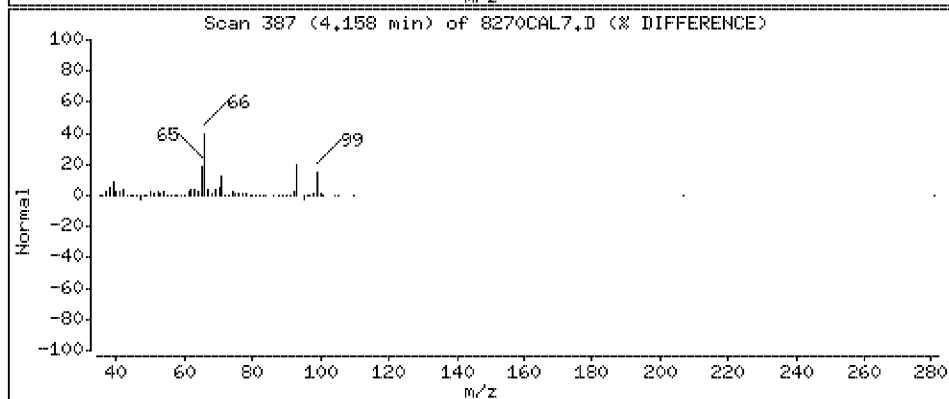
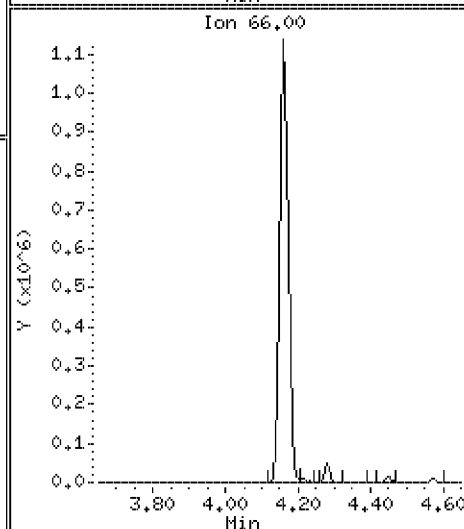
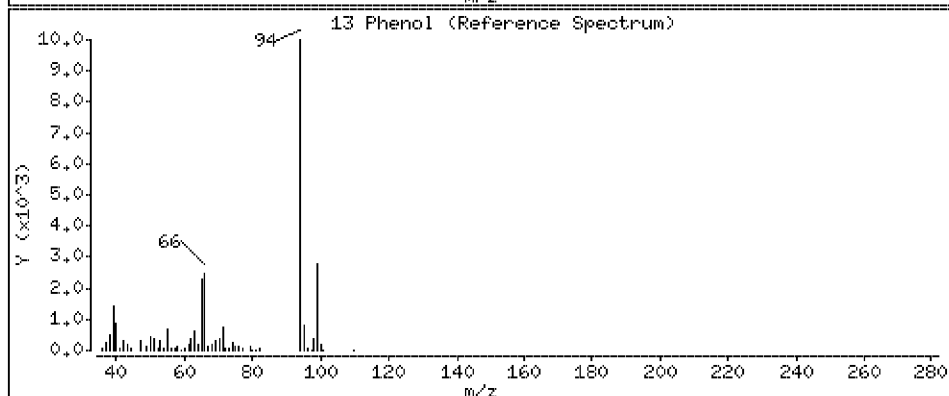
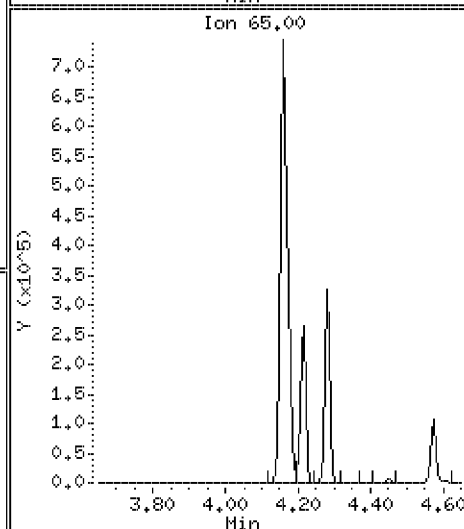
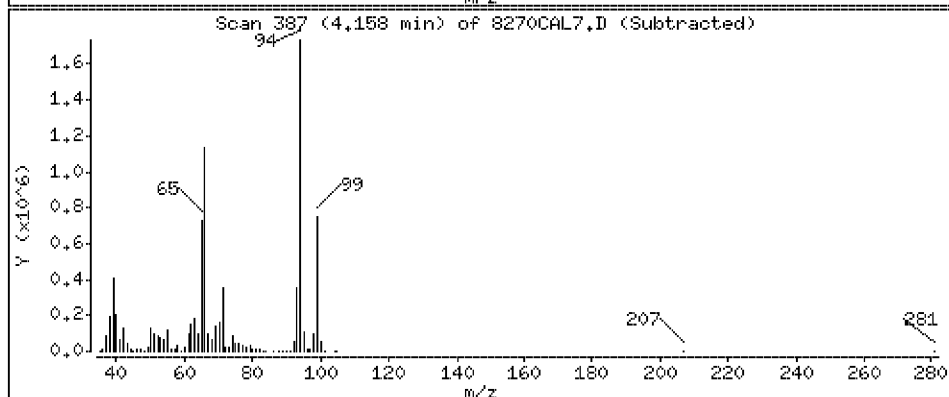
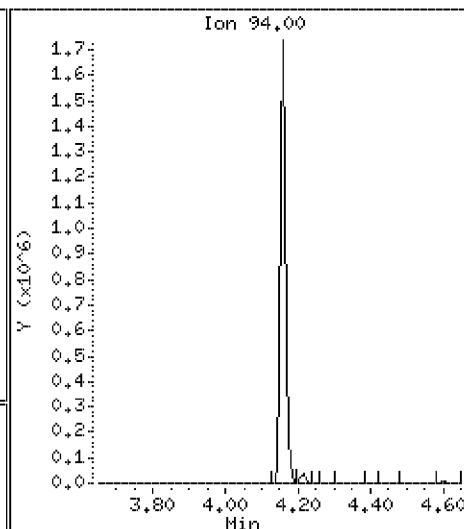
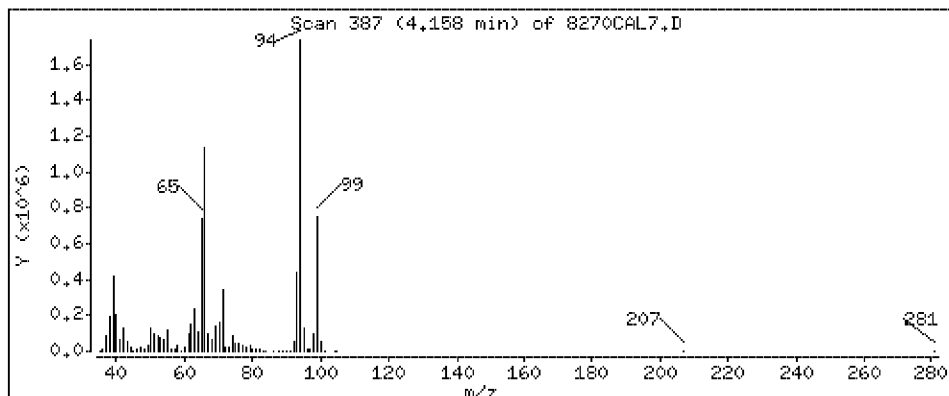
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

13 Phenol

Concentration: 109 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

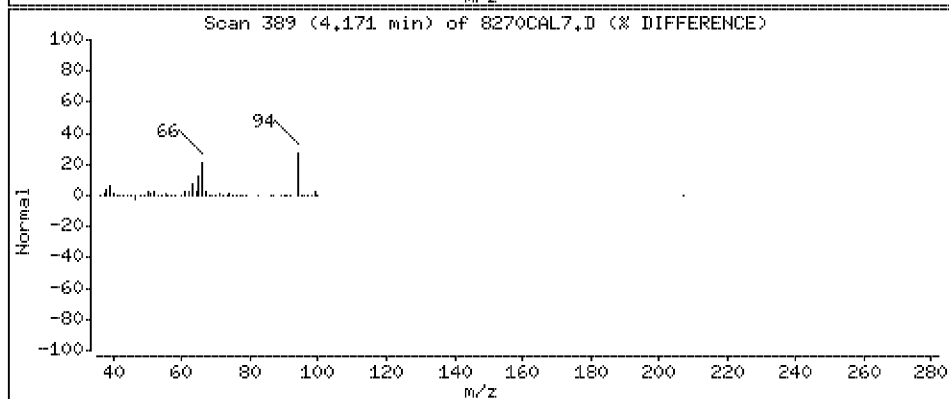
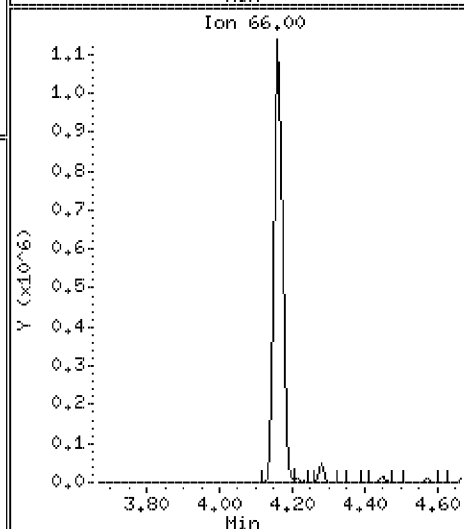
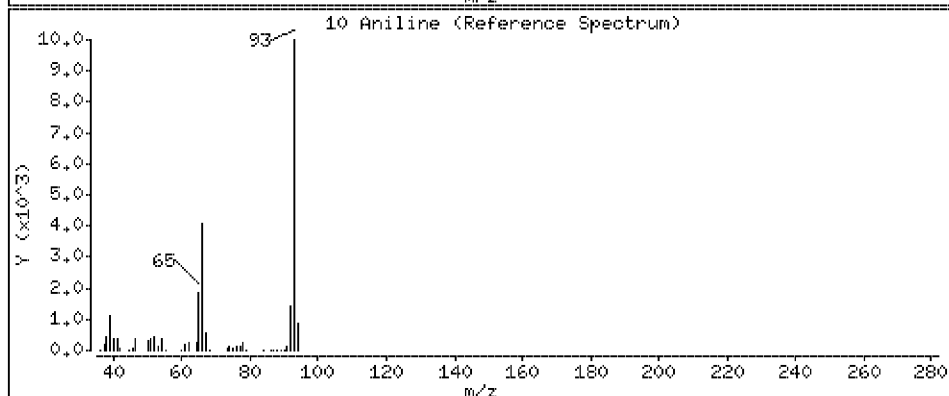
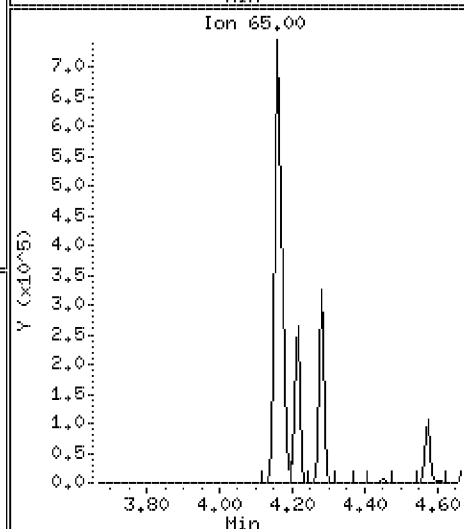
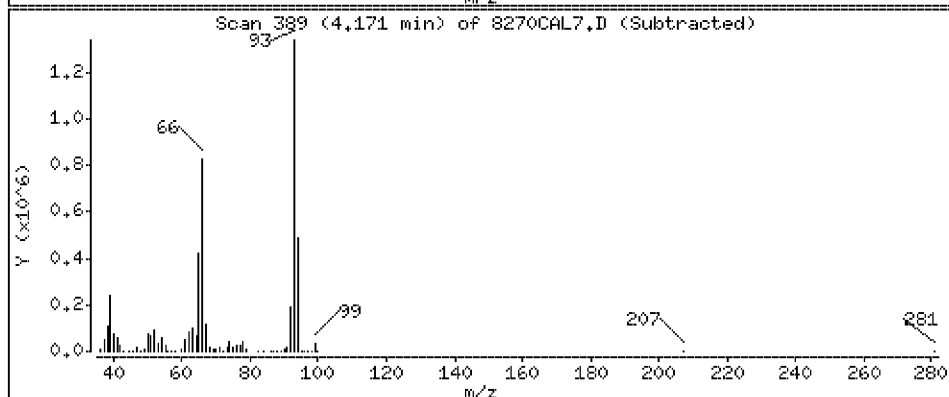
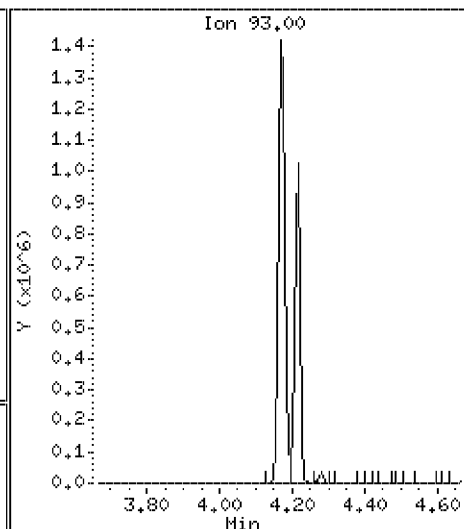
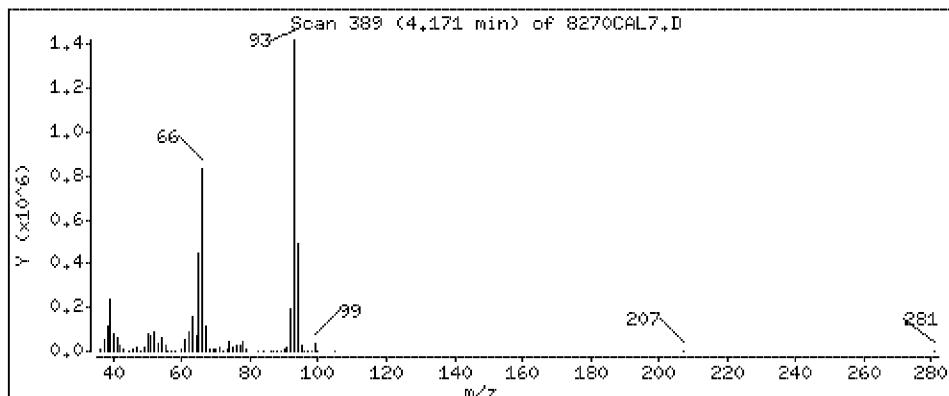
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

10 Aniline

Concentration: 103 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

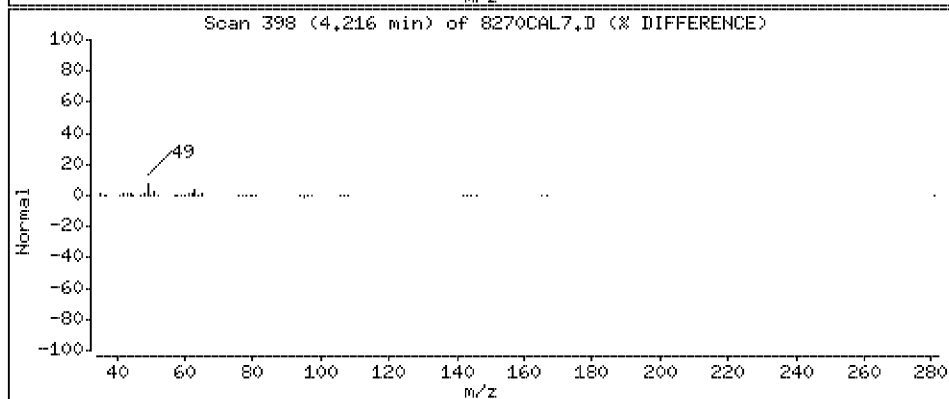
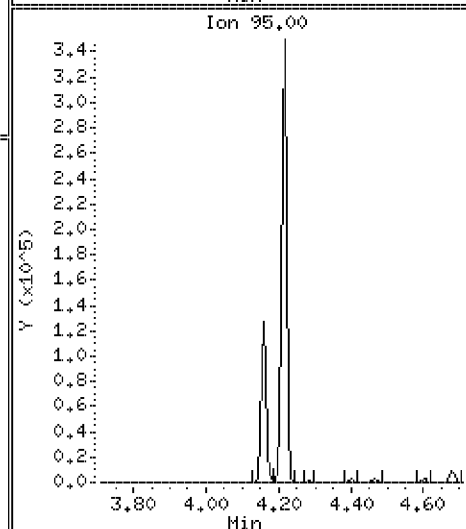
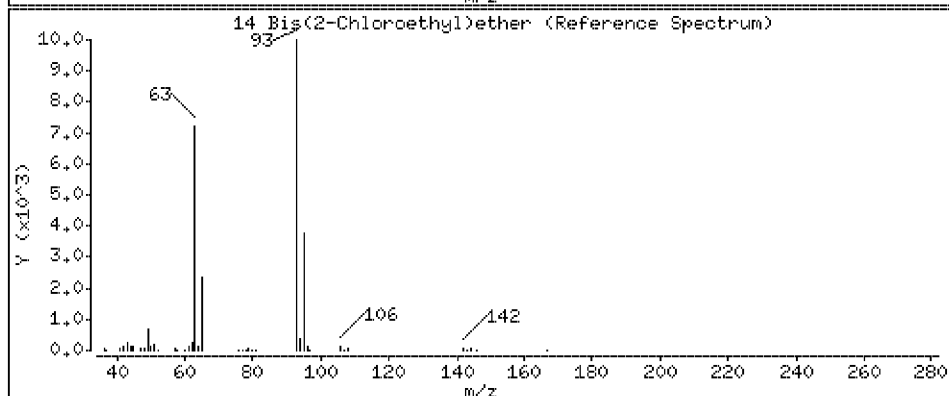
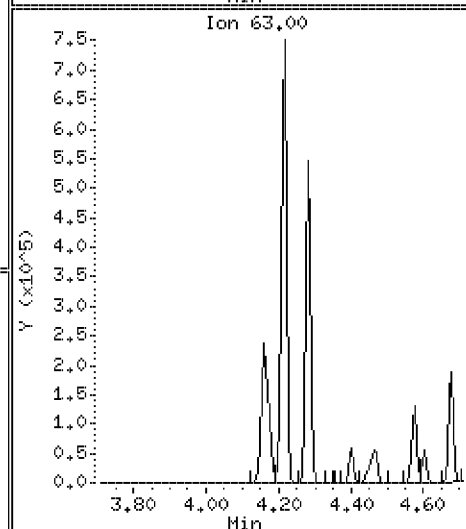
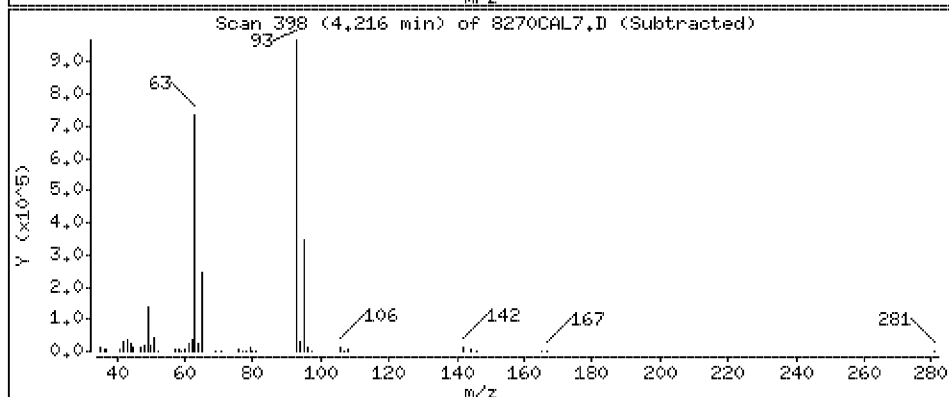
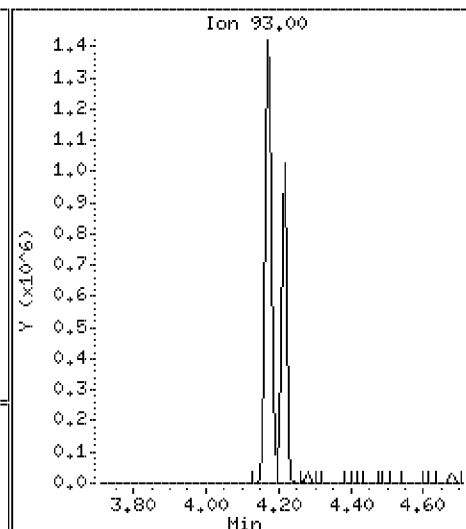
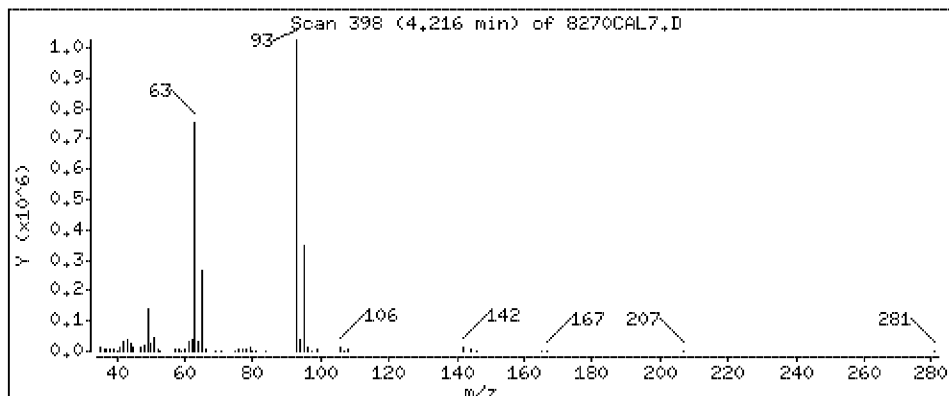
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

14 Bis(2-Chloroethyl)ether

Concentration: 103 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

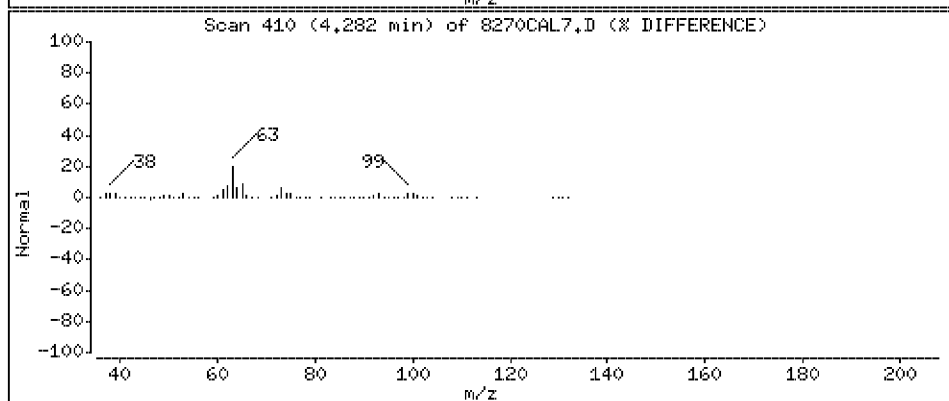
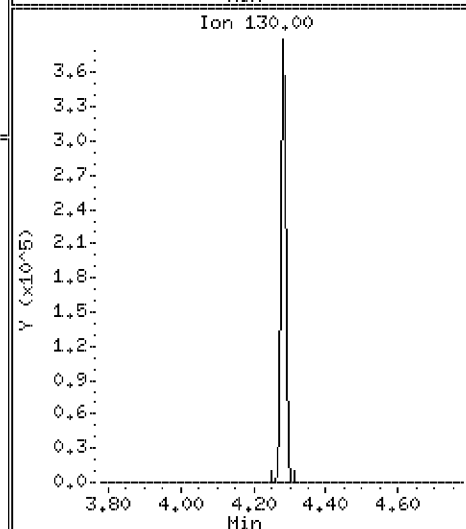
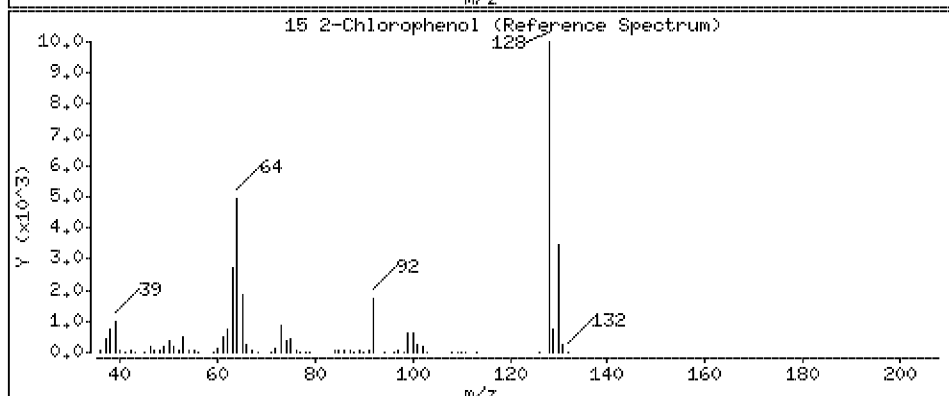
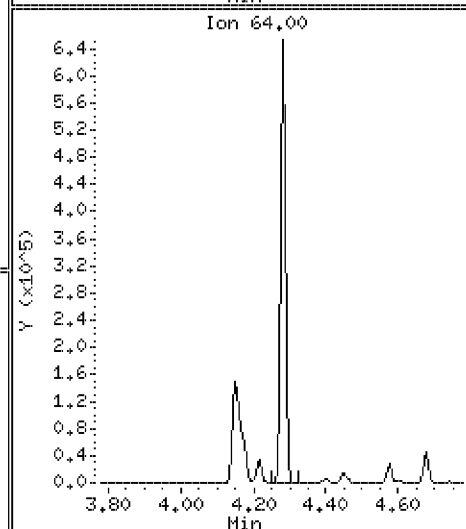
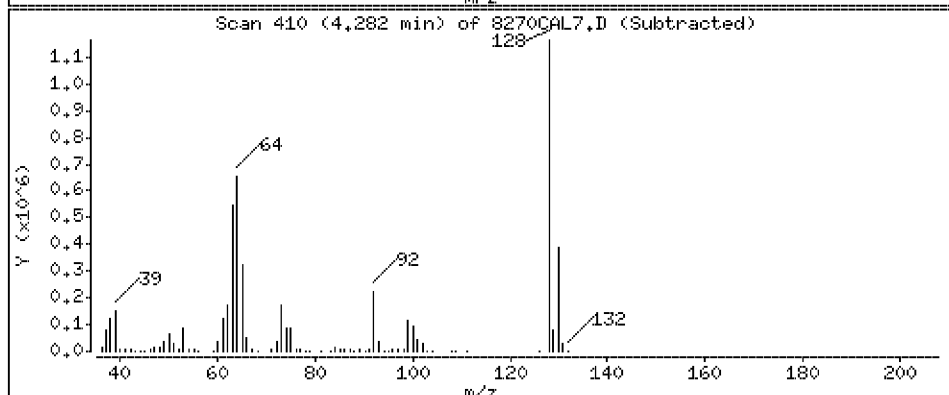
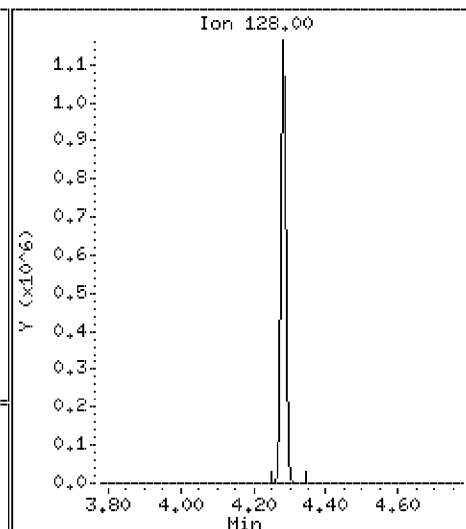
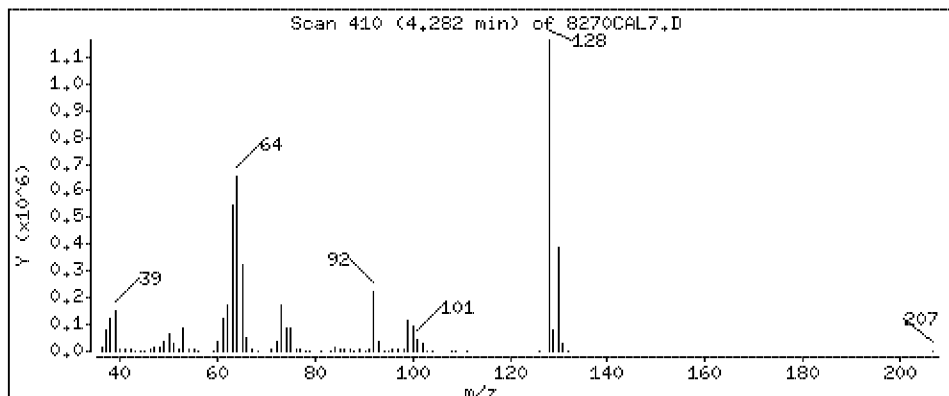
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

15 2-Chlorophenol

Concentration: 104 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

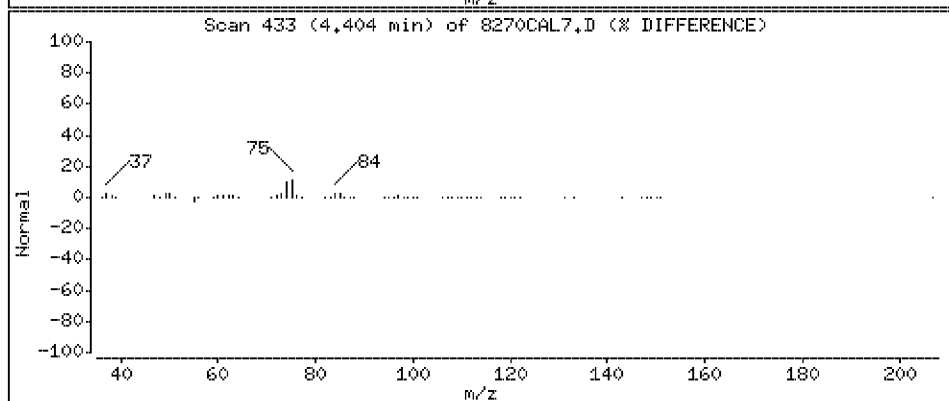
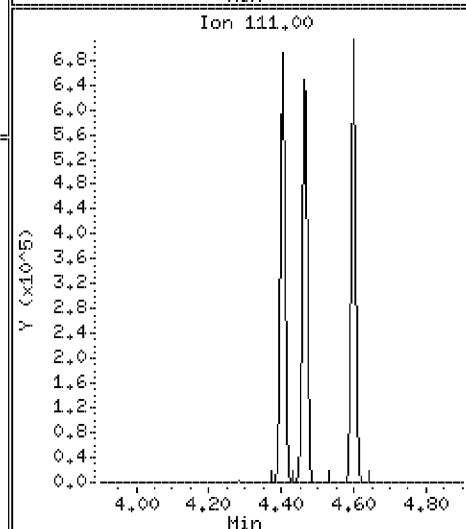
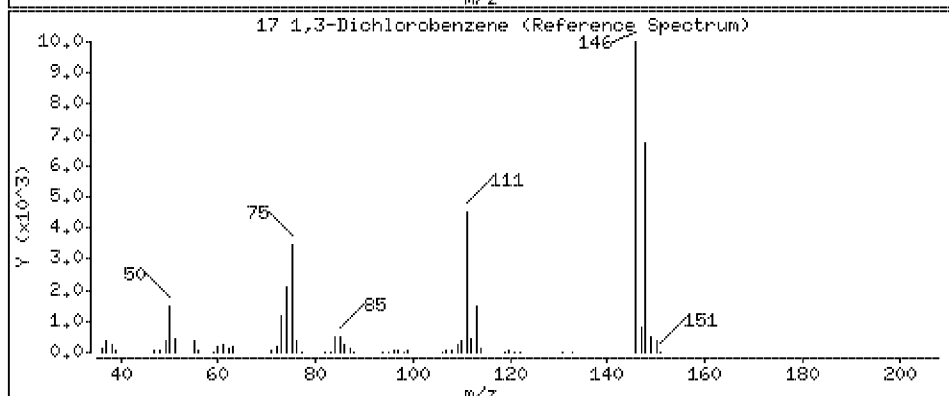
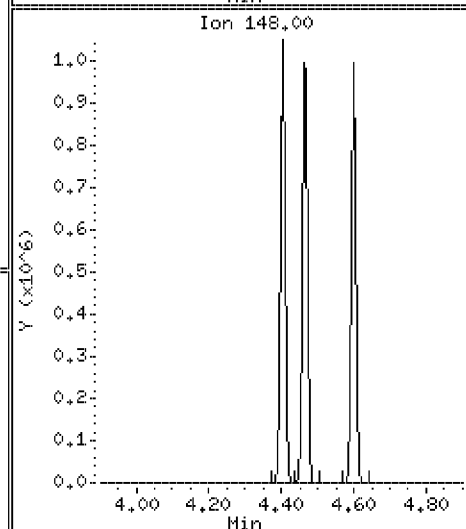
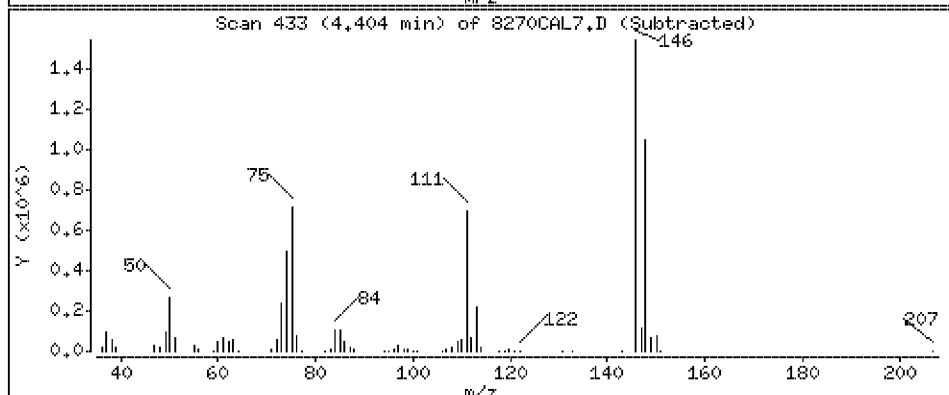
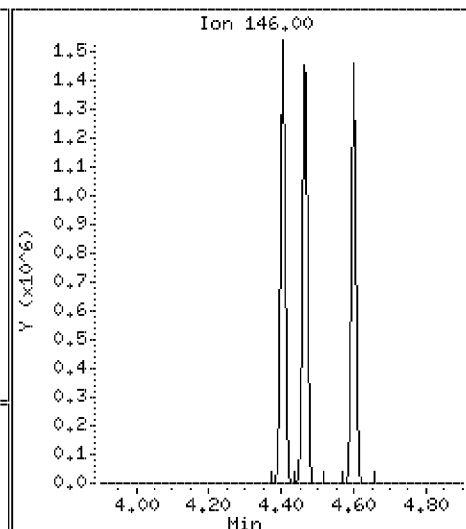
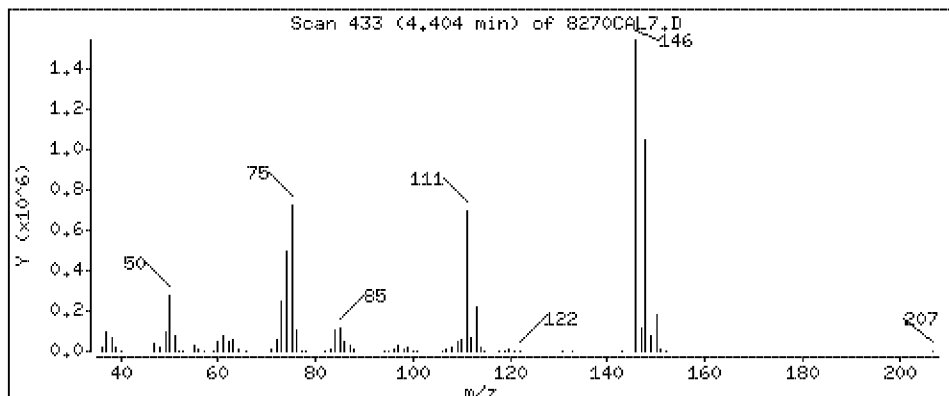
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

17 1,3-Dichlorobenzene

Concentration: 103 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

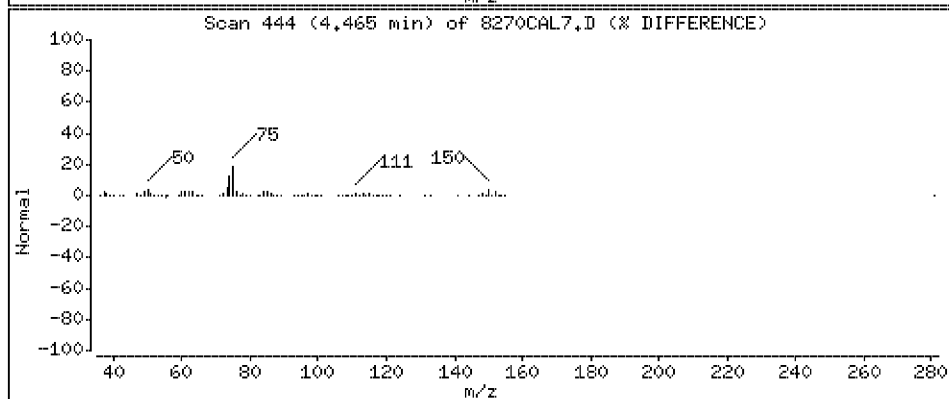
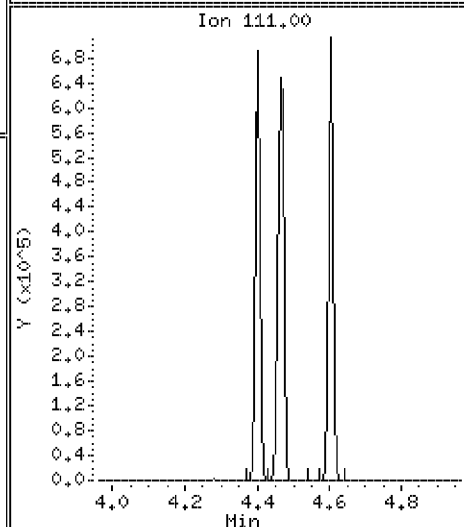
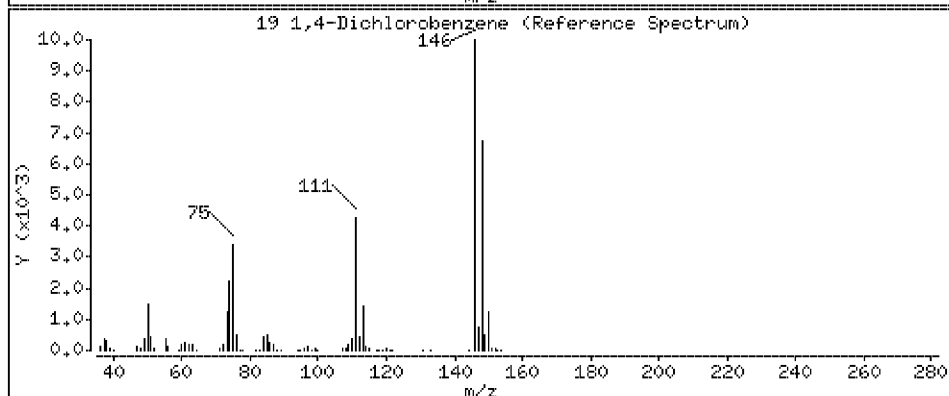
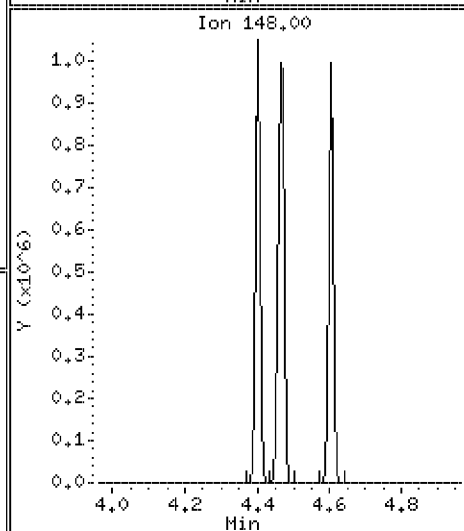
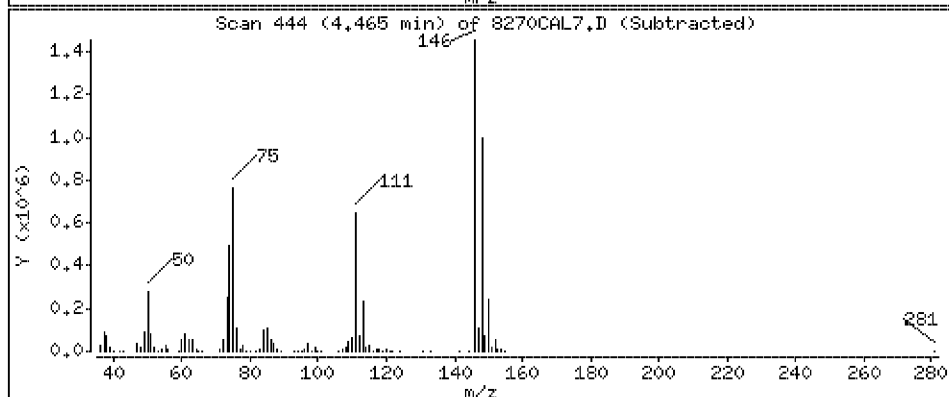
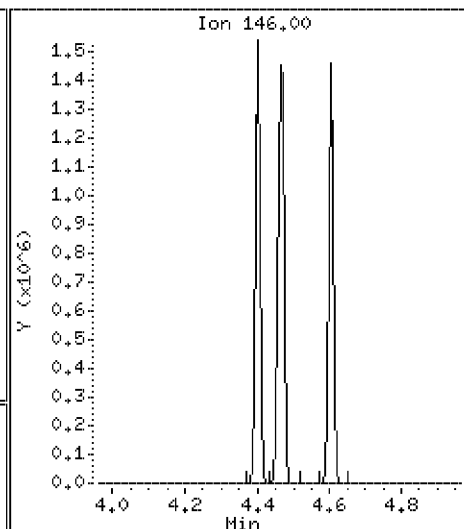
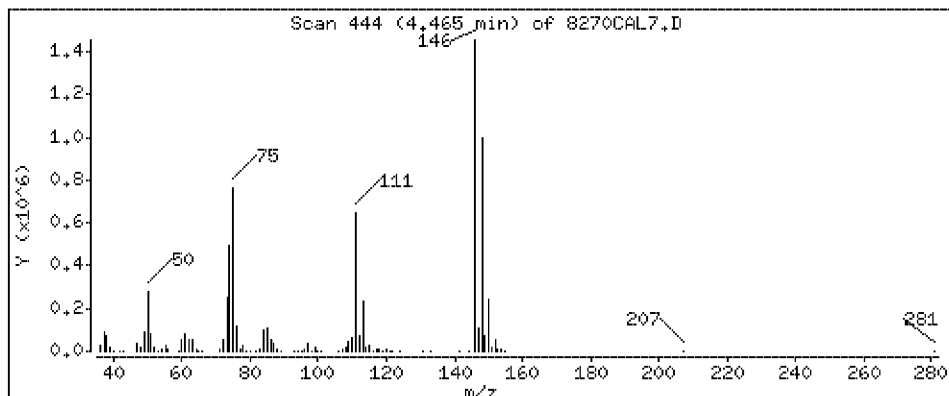
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

19 1,4-Dichlorobenzene

Concentration: 102 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

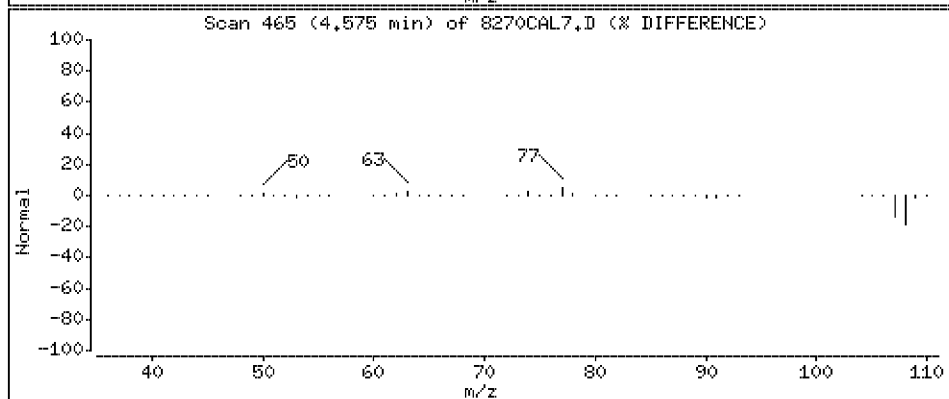
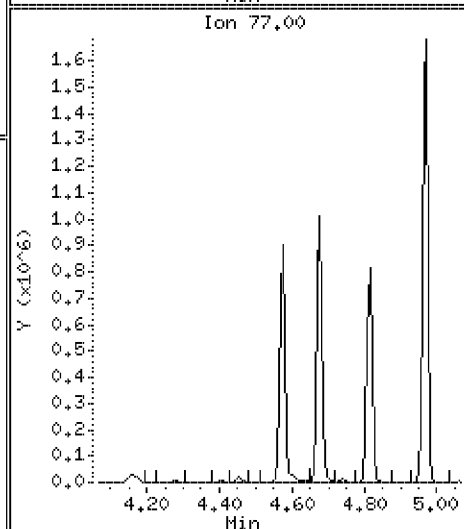
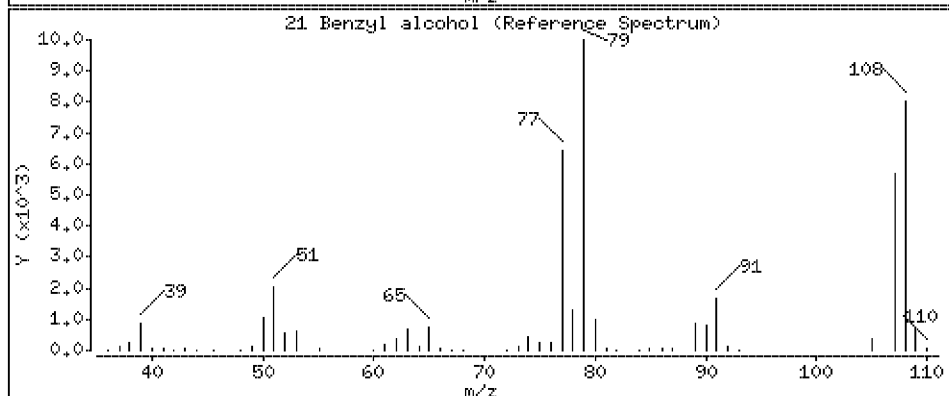
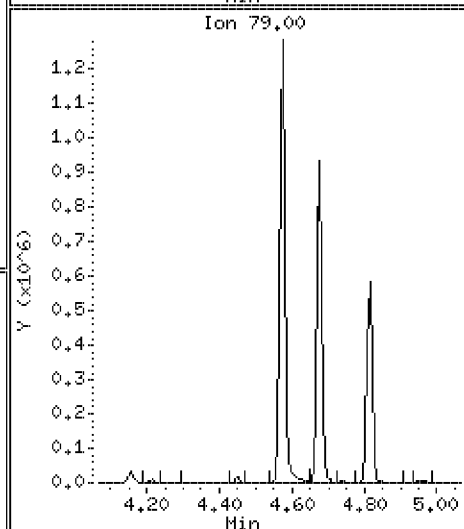
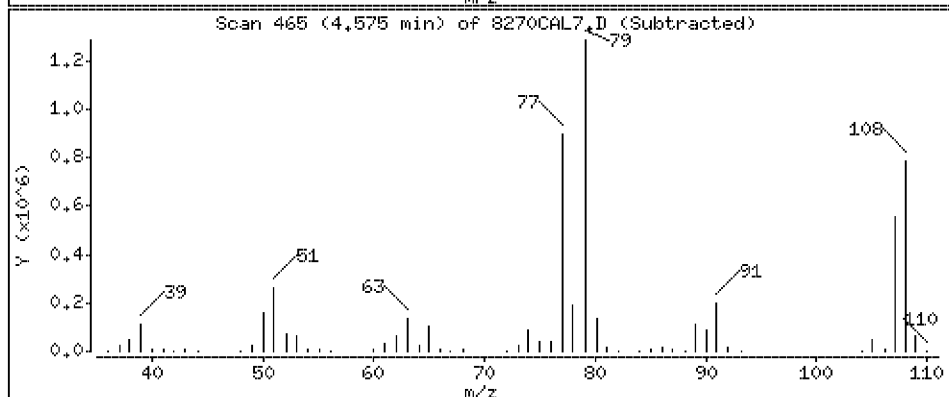
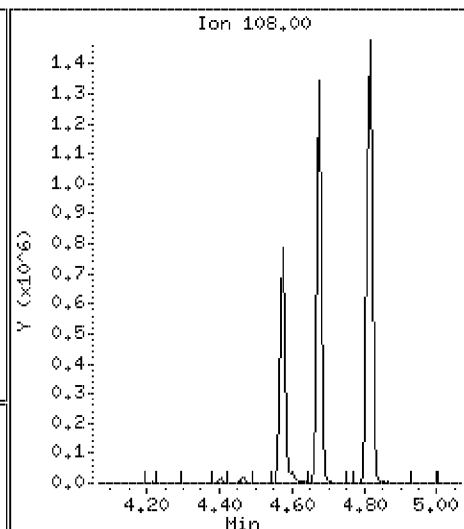
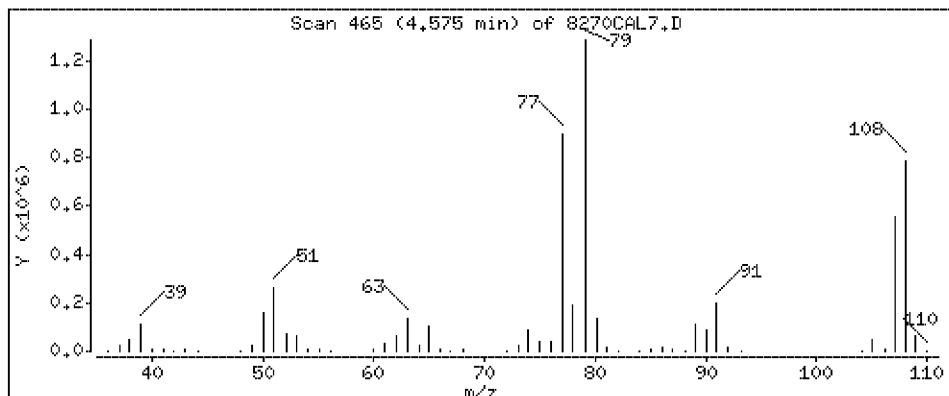
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

21 Benzyl alcohol

Concentration: 109 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

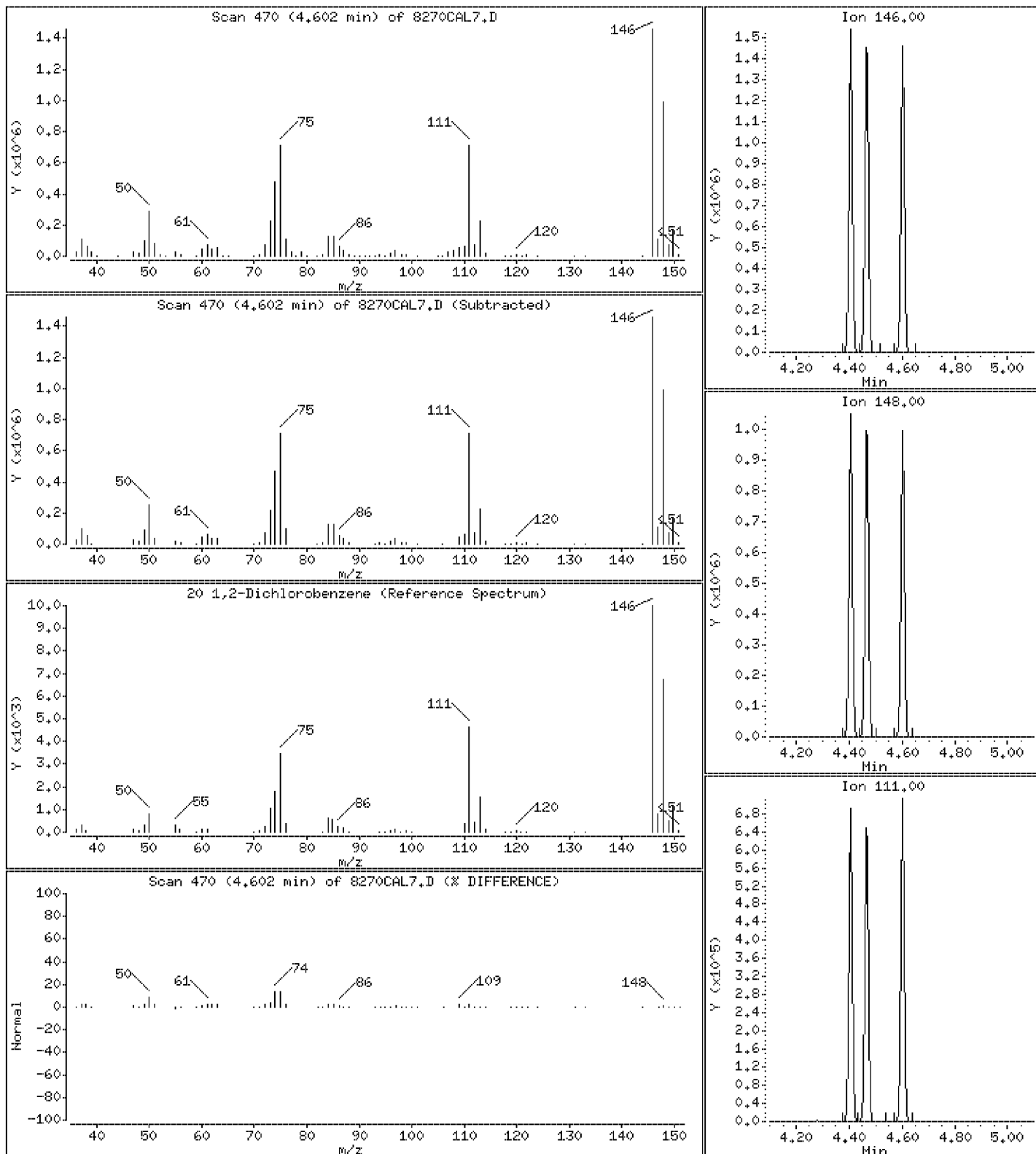
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

20 1,2-Dichlorobenzene

Concentration: 103 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

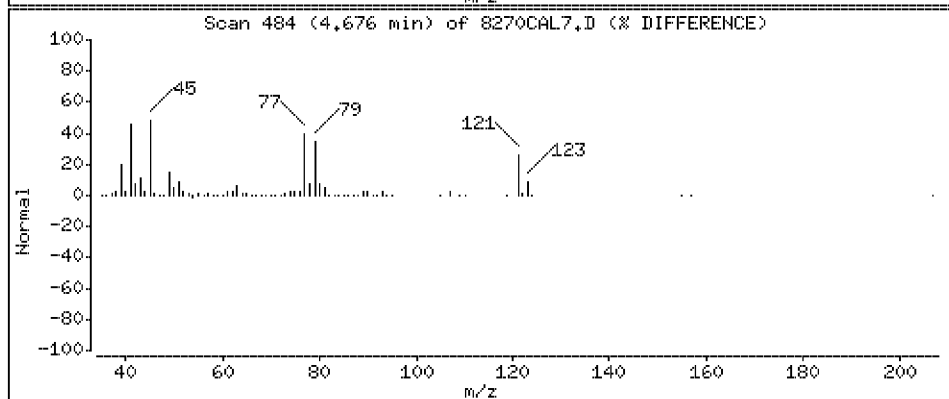
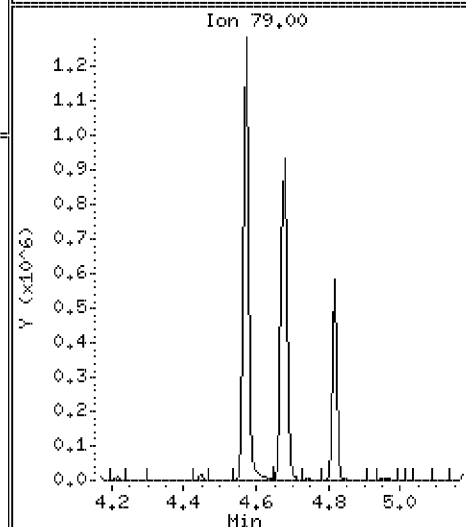
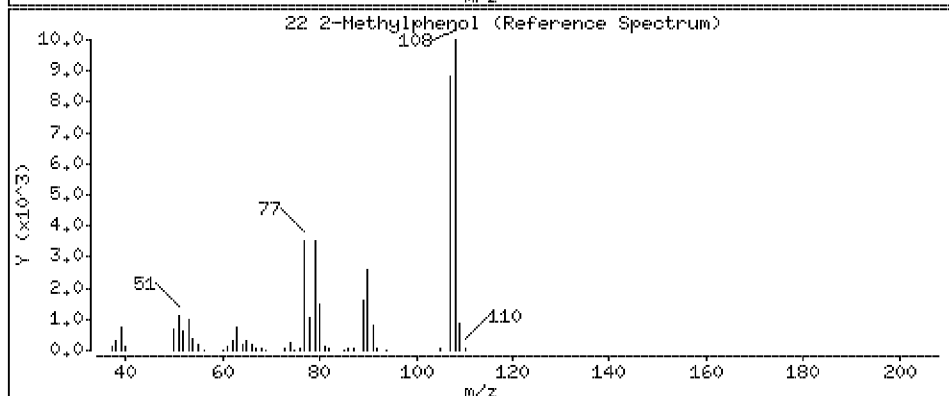
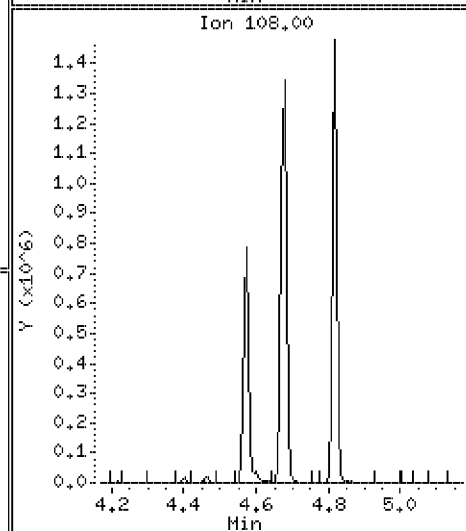
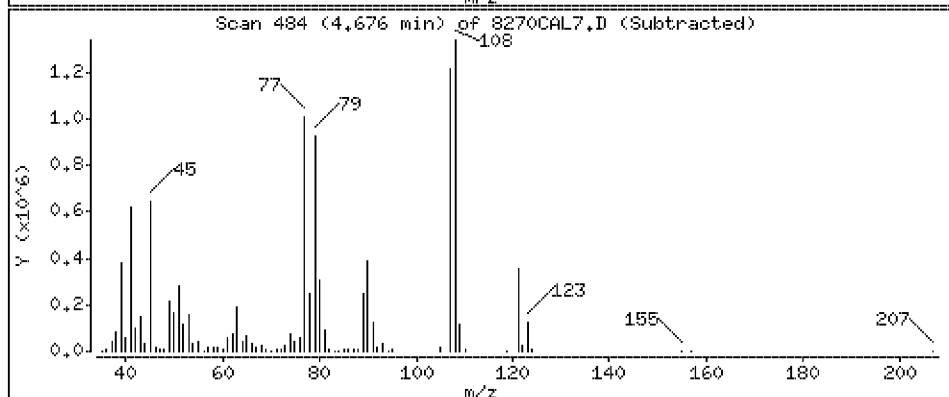
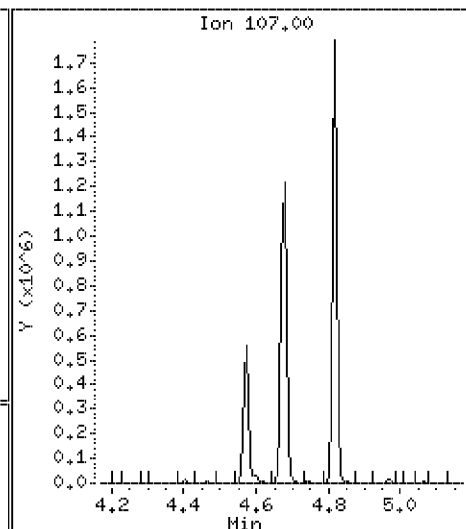
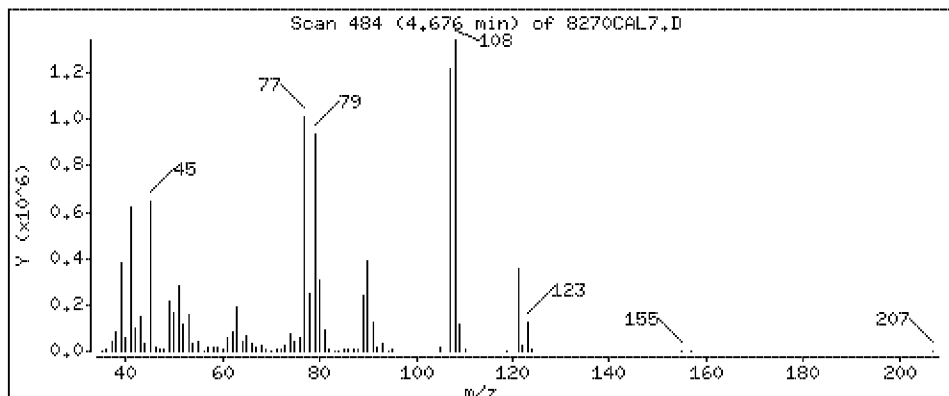
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

22 2-Methylphenol

Concentration: 111 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

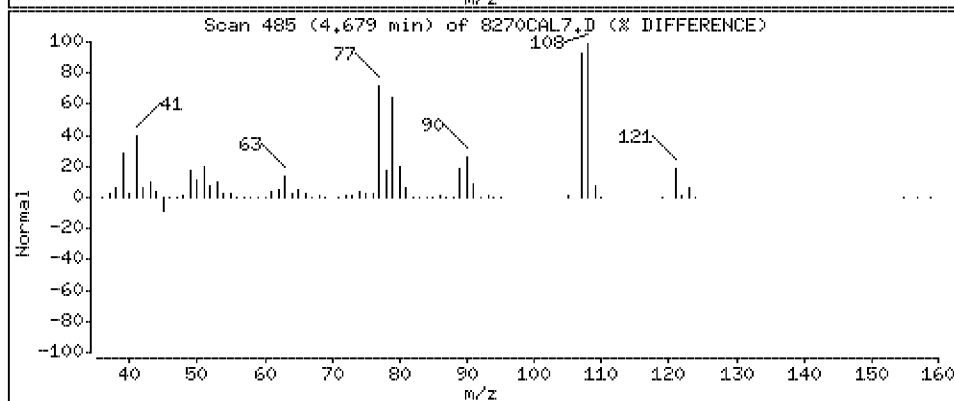
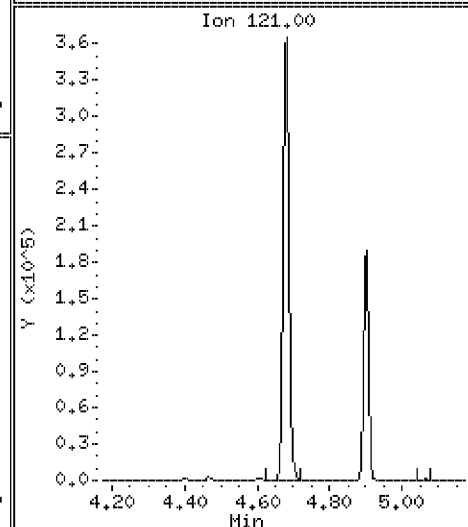
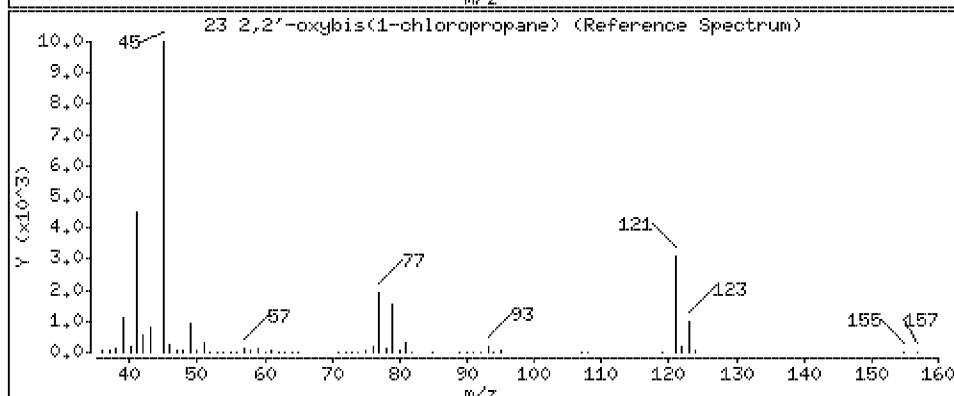
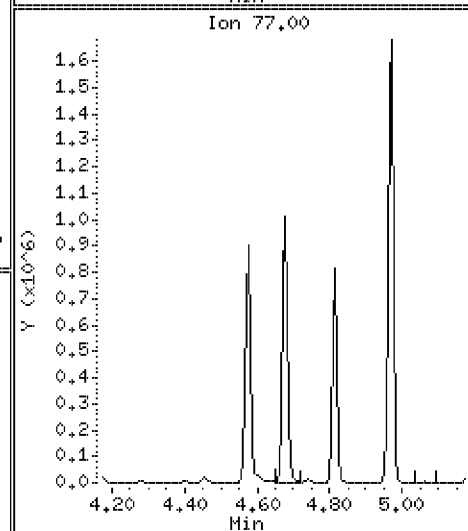
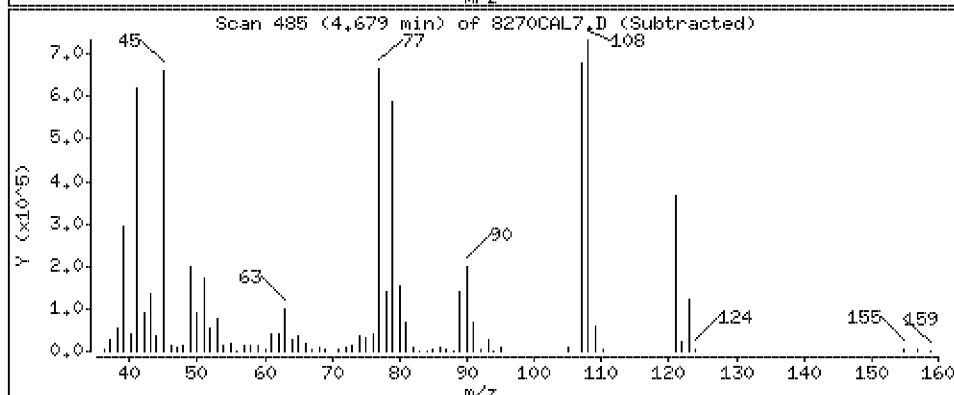
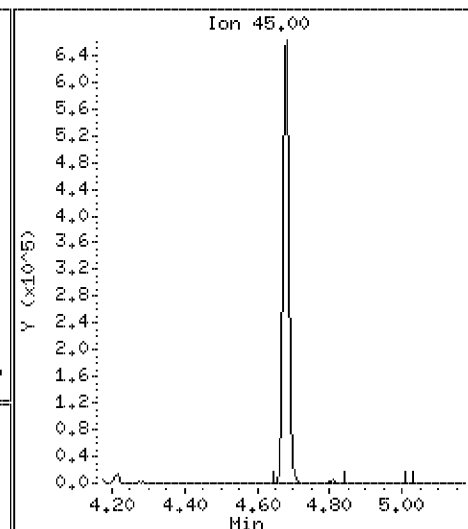
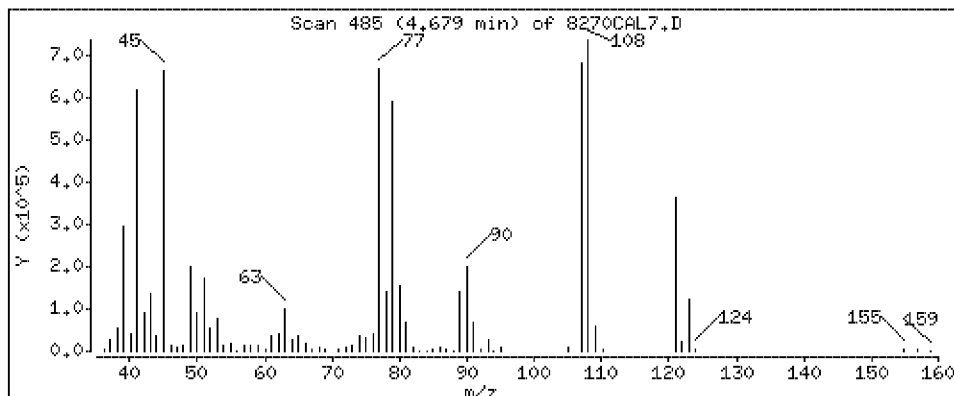
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

23 2,2'-oxybis(1-chloropropane)

Concentration: 107 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

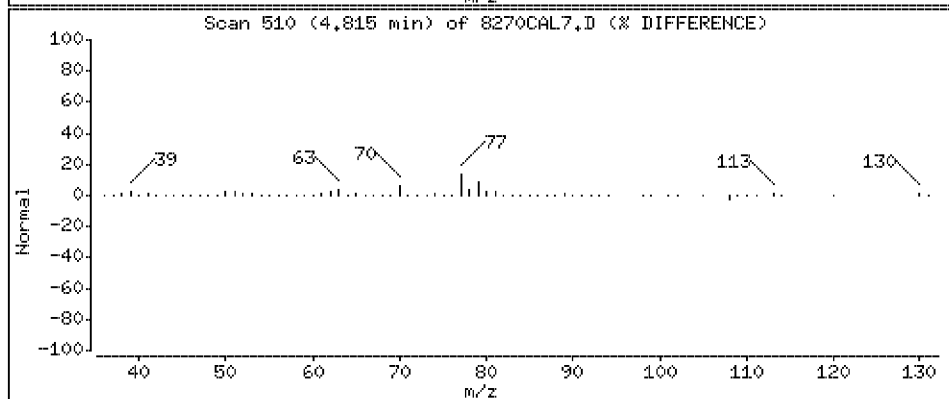
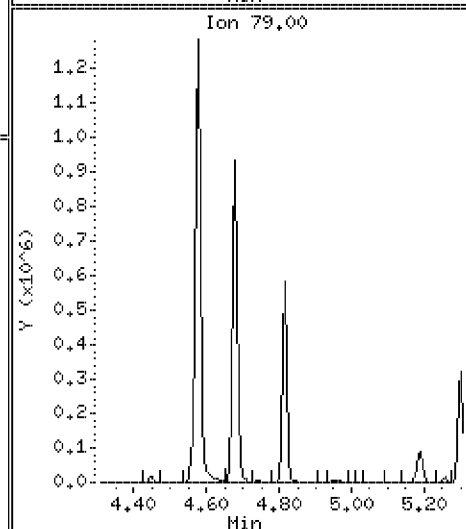
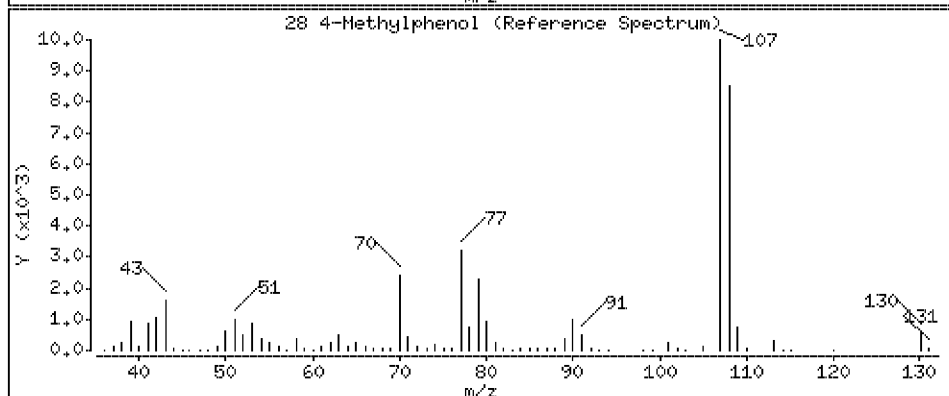
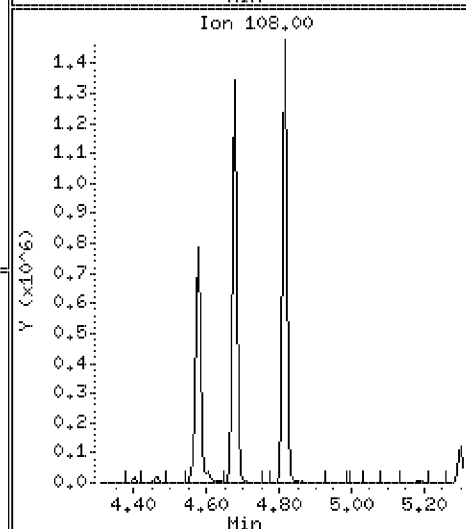
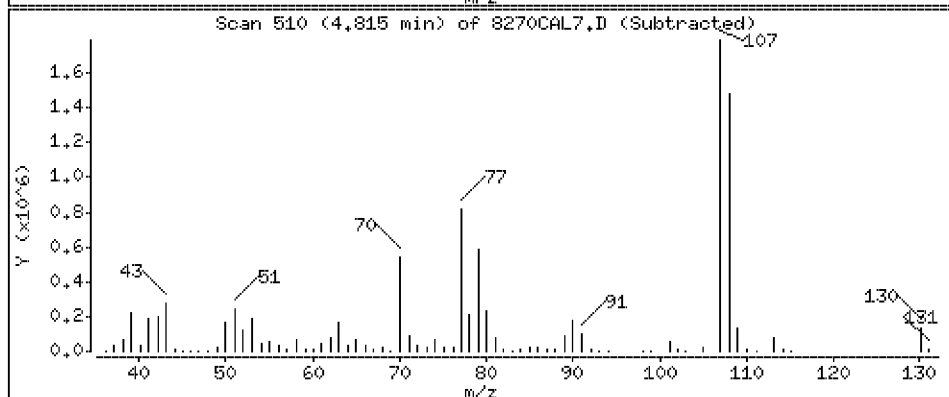
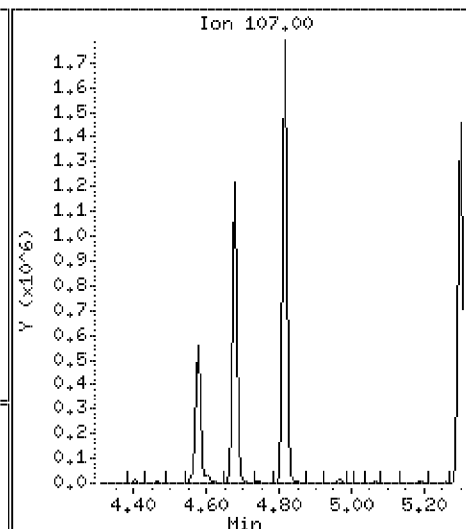
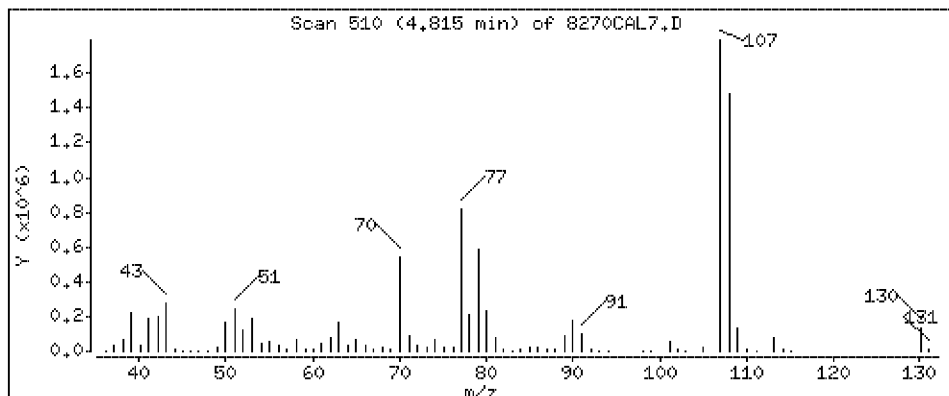
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

28 4-Methylphenol

Concentration: 108 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

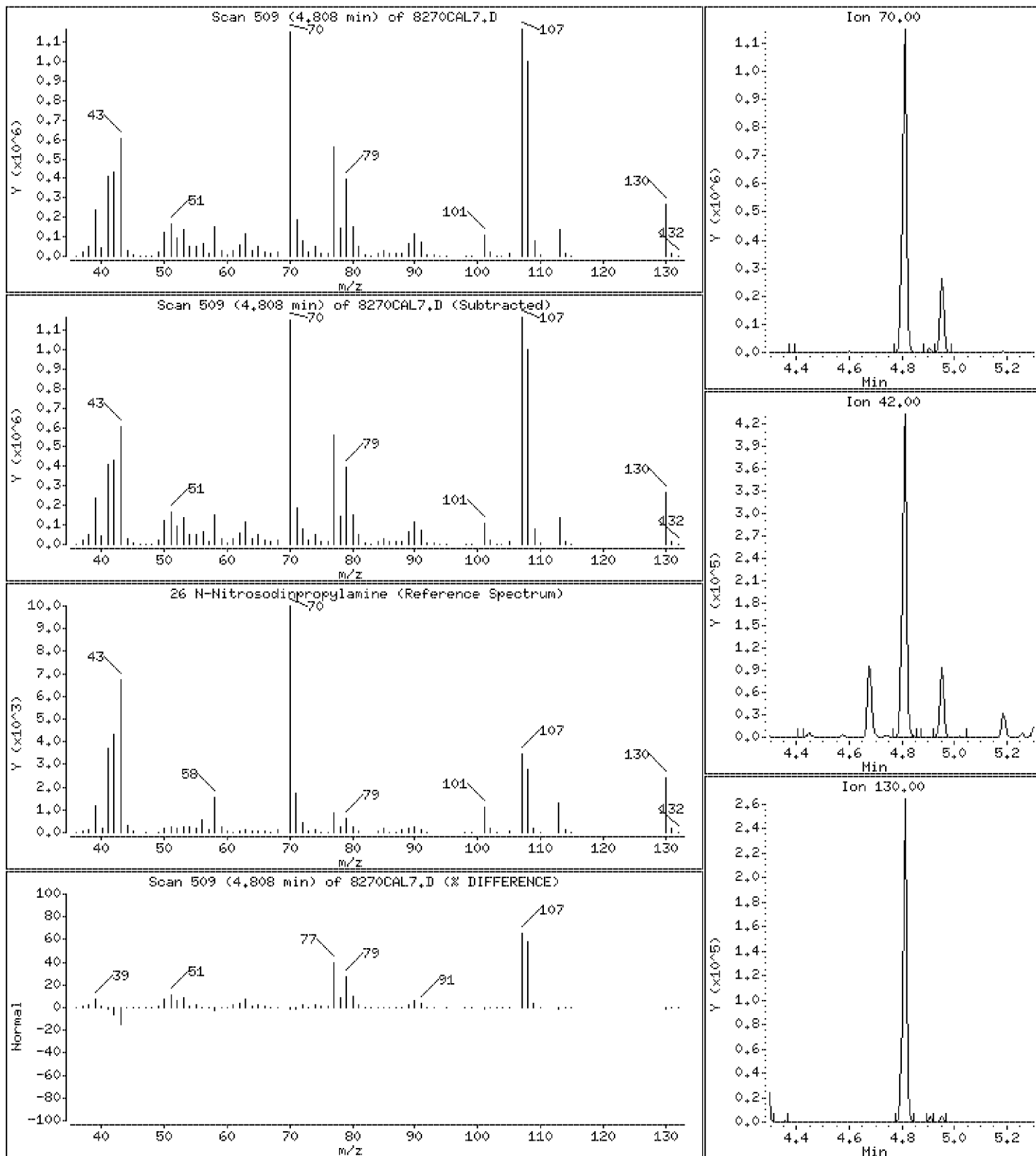
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

26 N-Nitrosodipropylamine

Concentration: 106 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

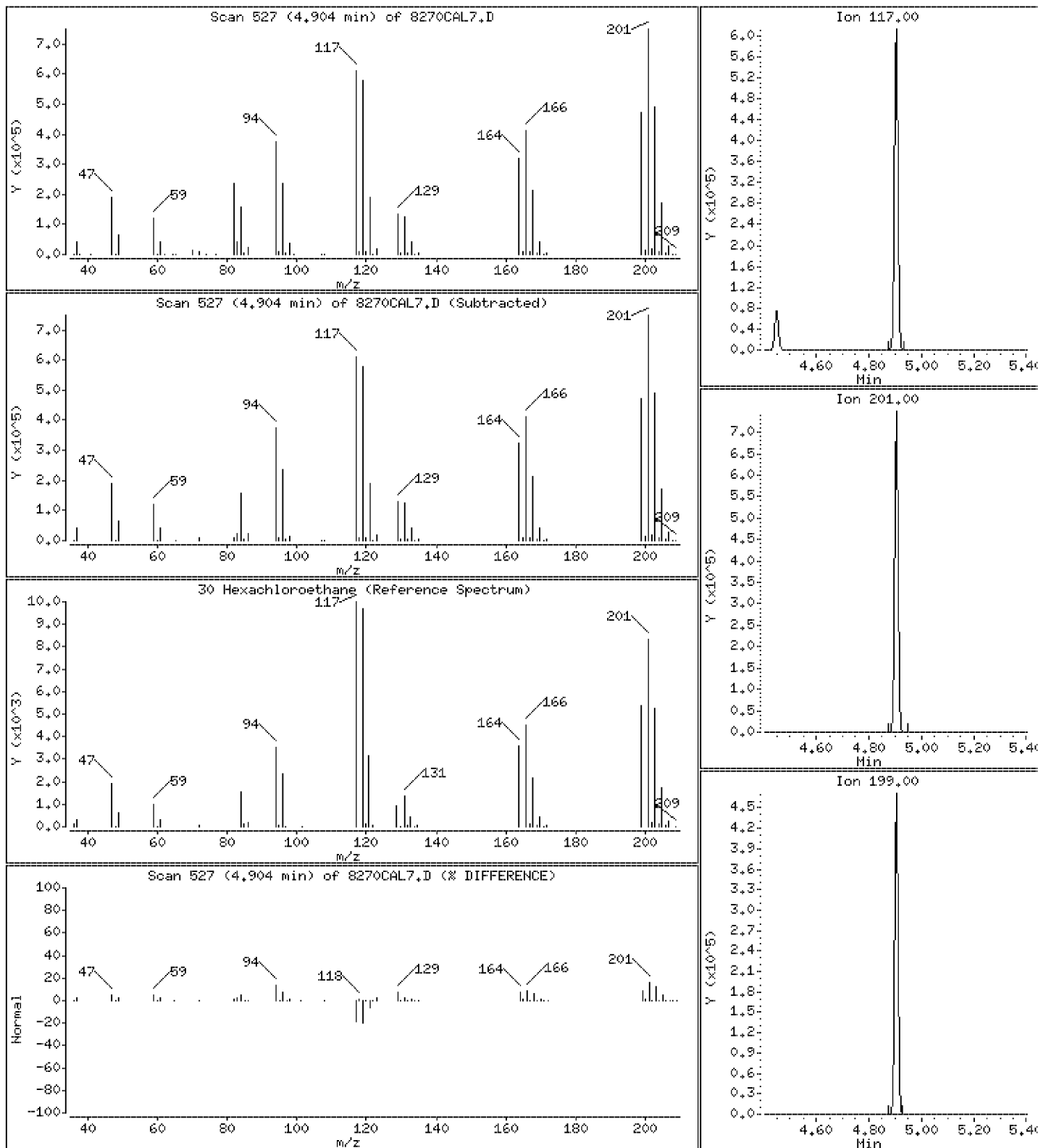
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

30 Hexachloroethane

Concentration: 104 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

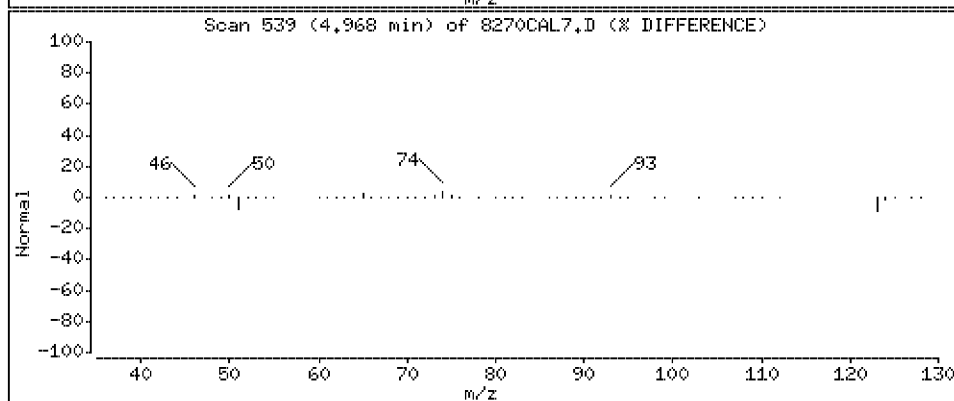
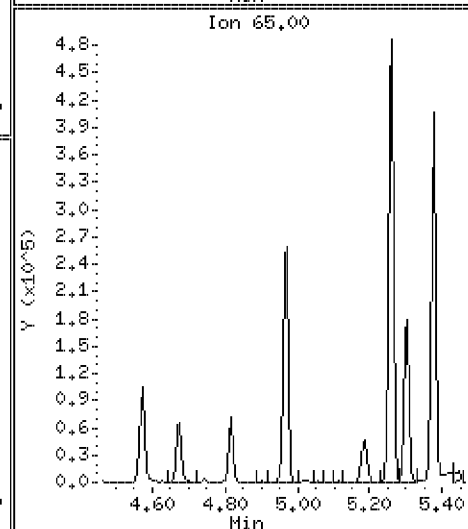
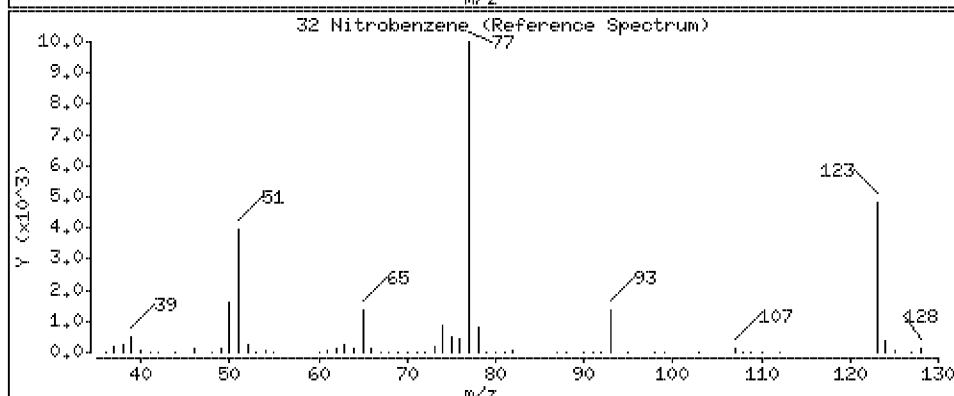
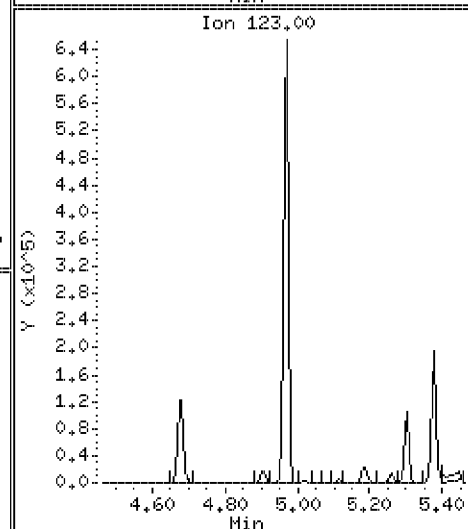
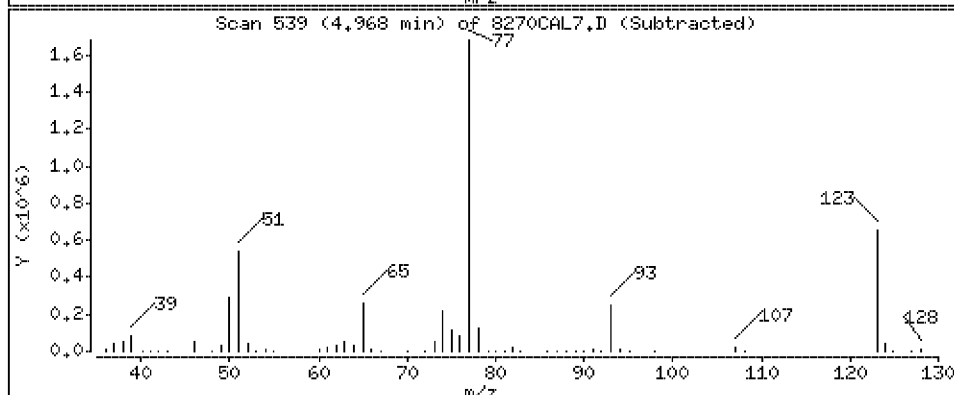
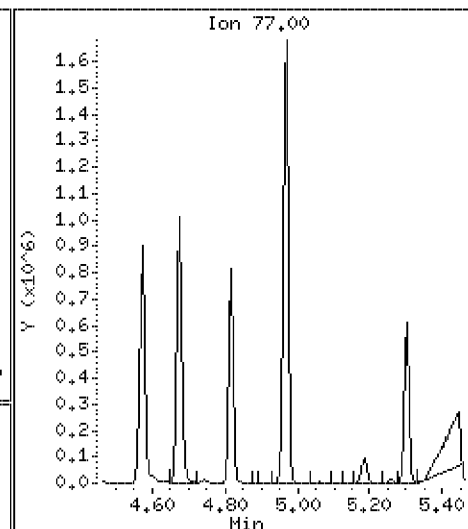
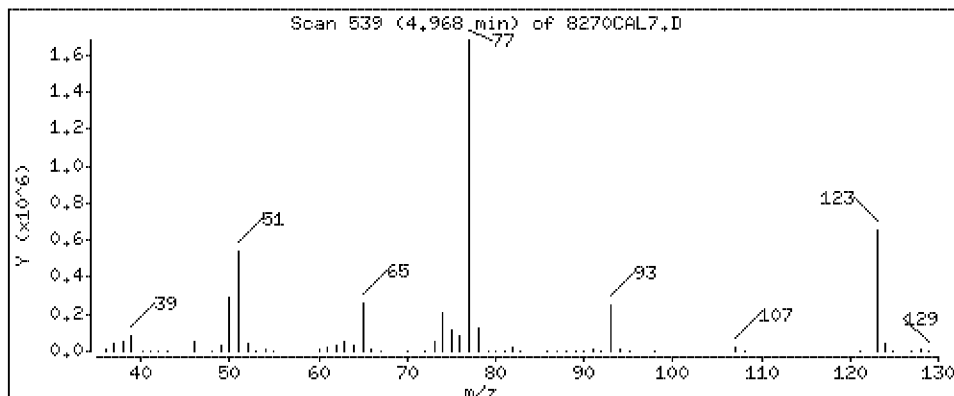
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

32 Nitrobenzene

Concentration: 101 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

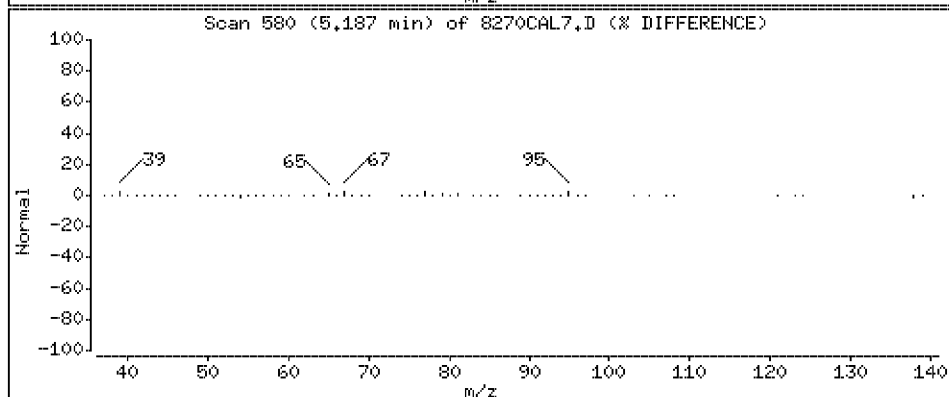
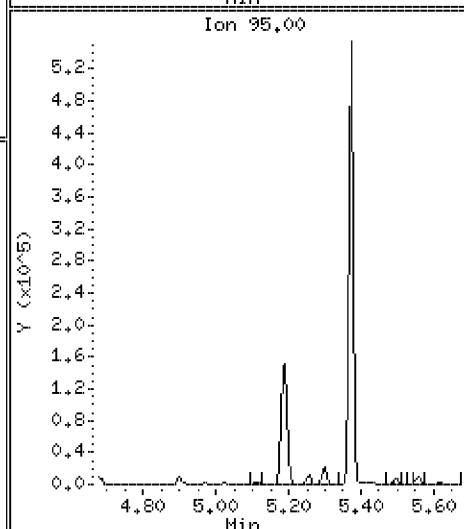
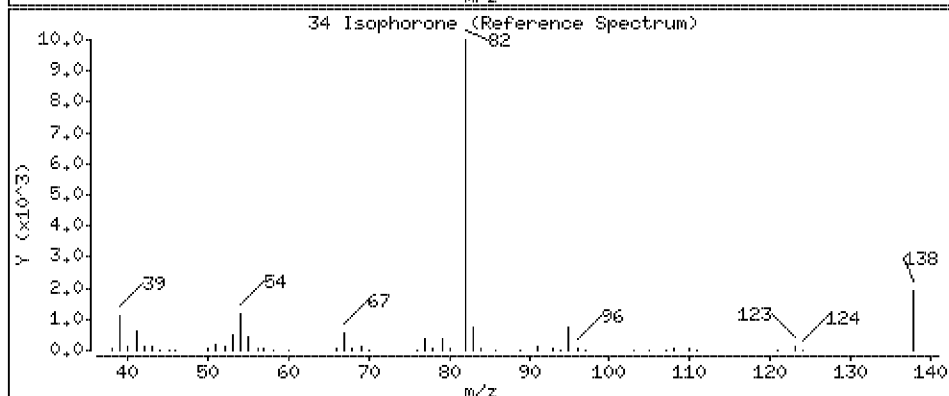
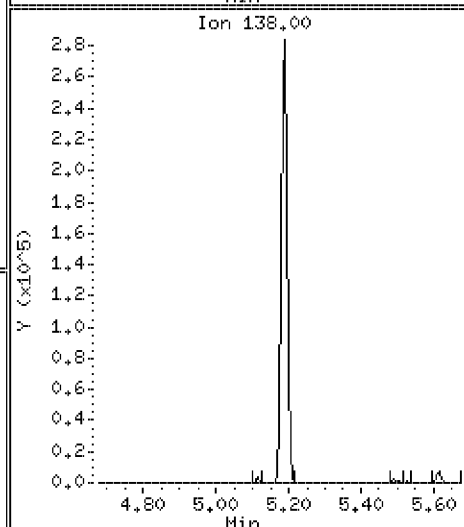
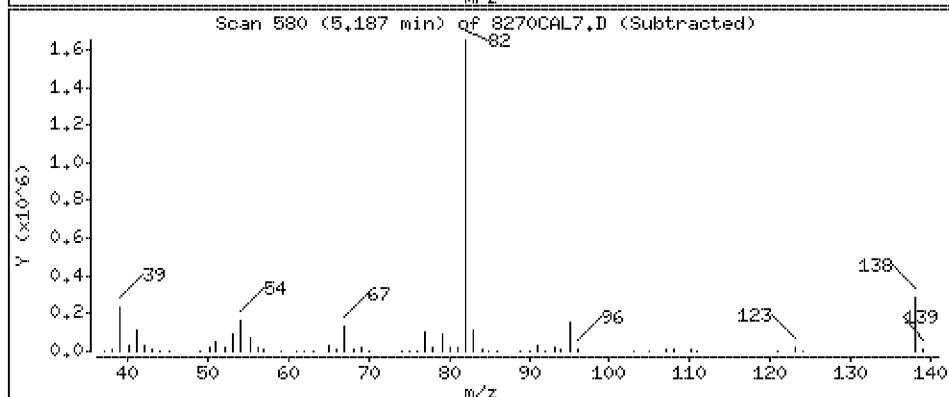
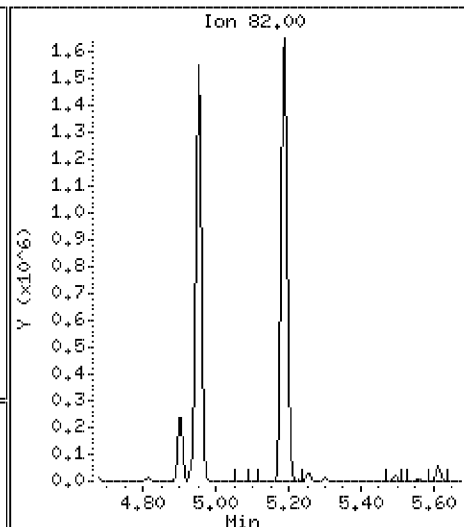
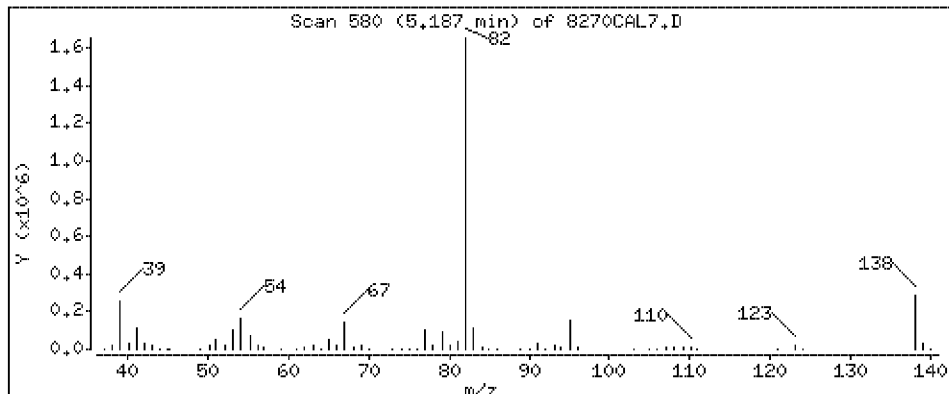
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

34 Isophorone

Concentration: 100 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

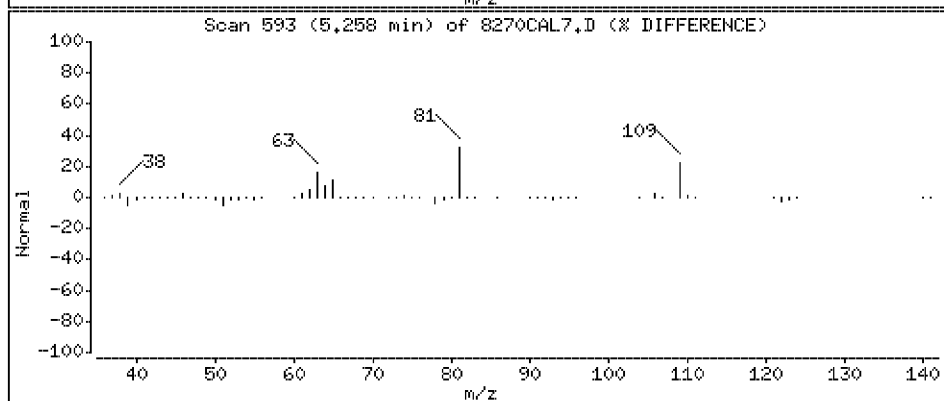
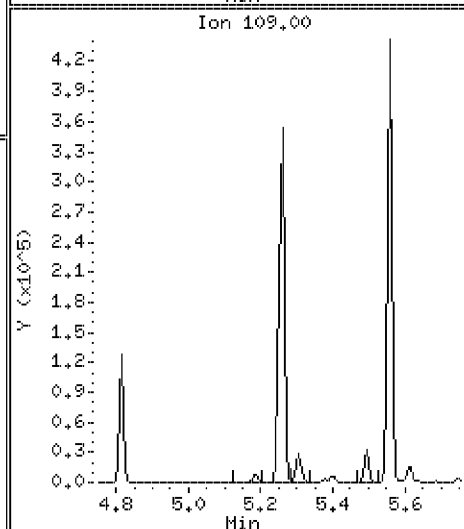
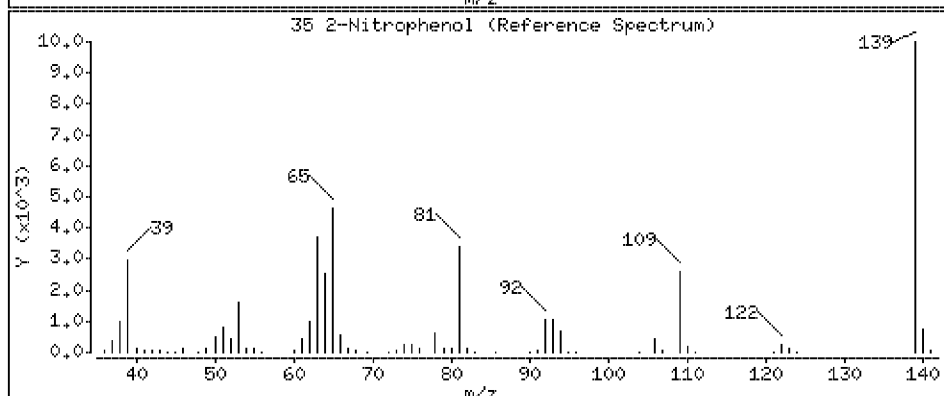
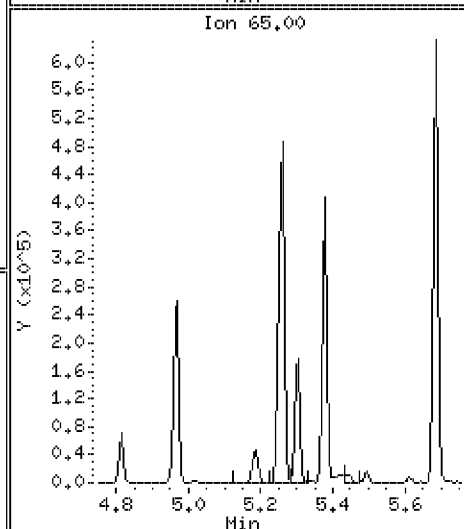
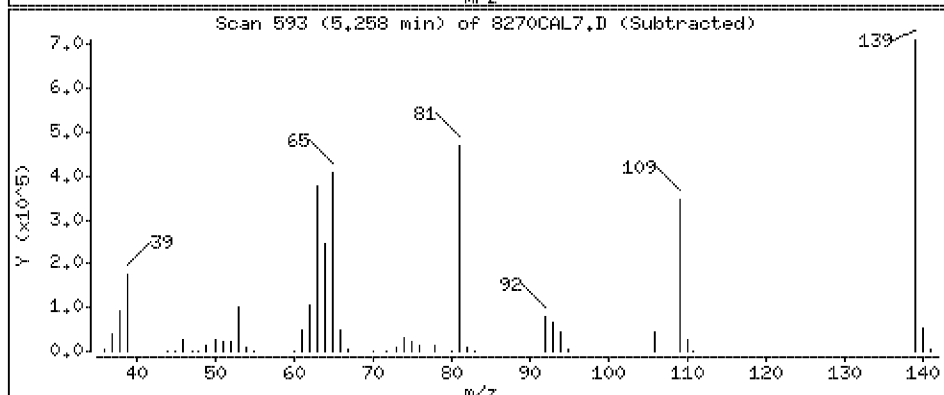
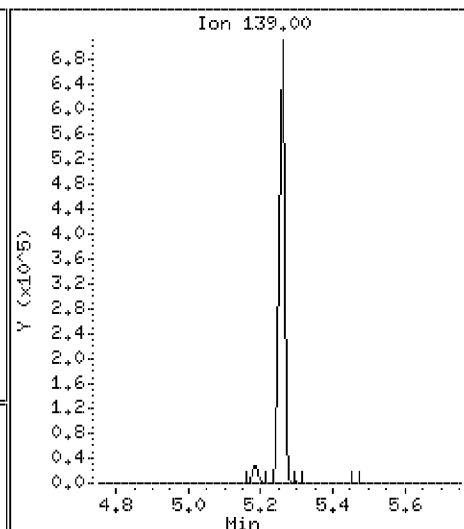
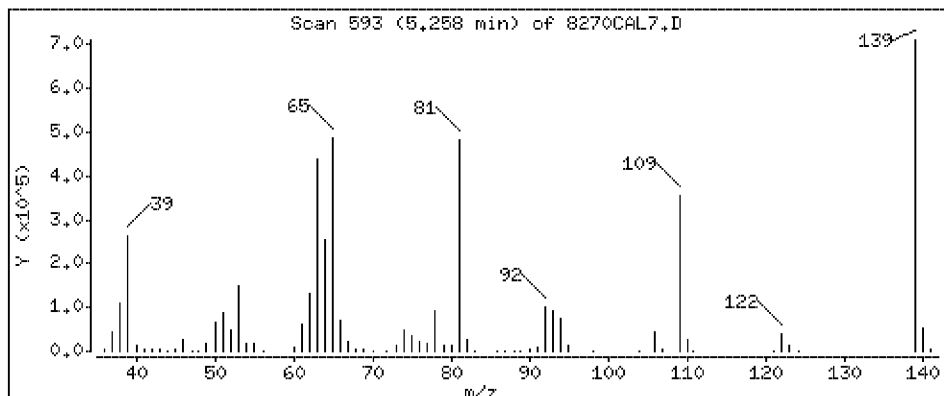
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

35 2-Nitrophenol

Concentration: 107 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

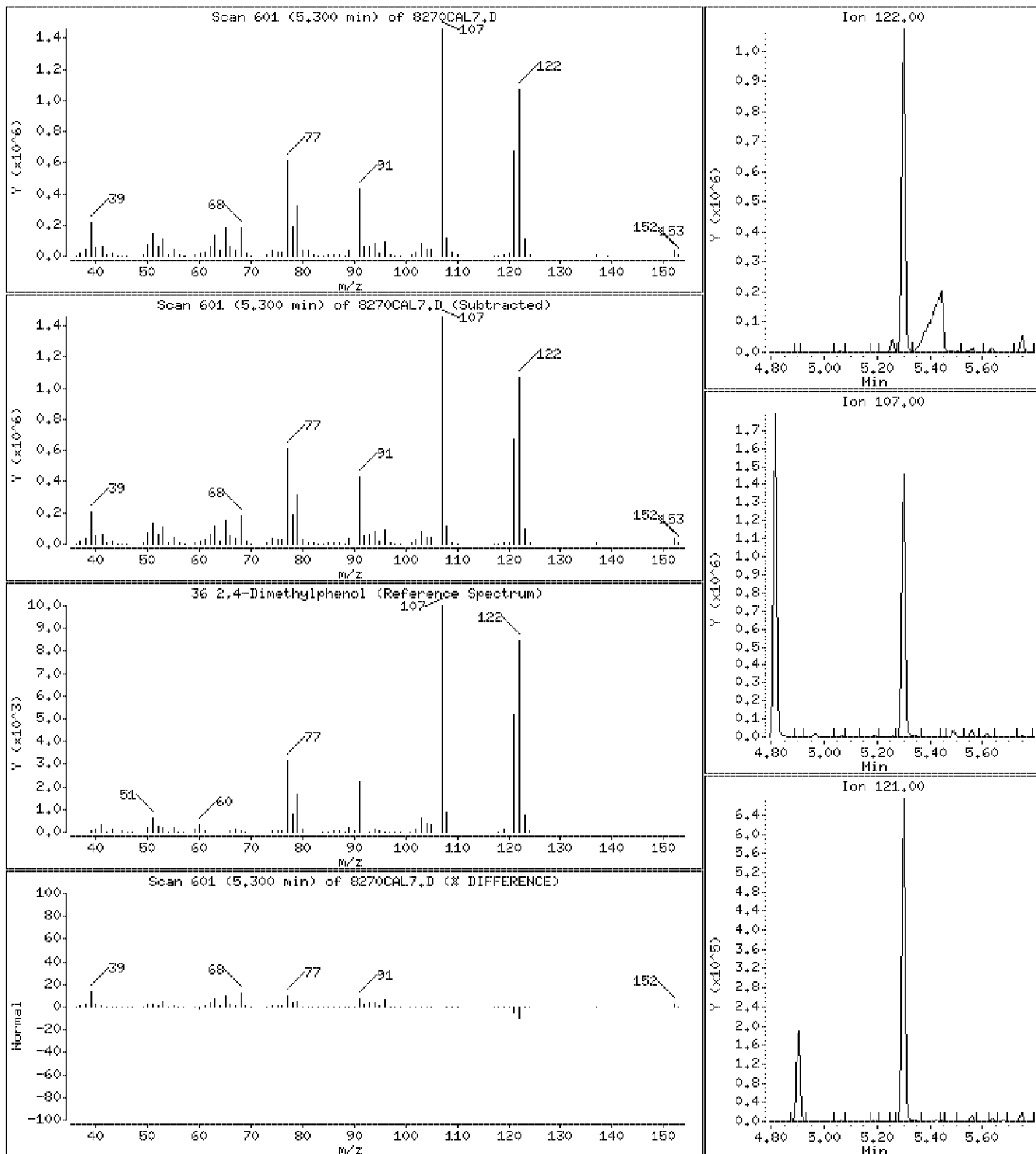
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

36 2,4-Dimethylphenol

Concentration: 103 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

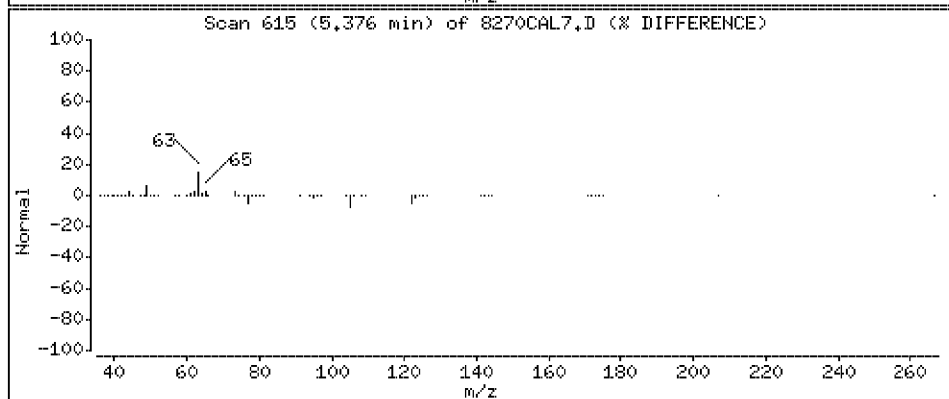
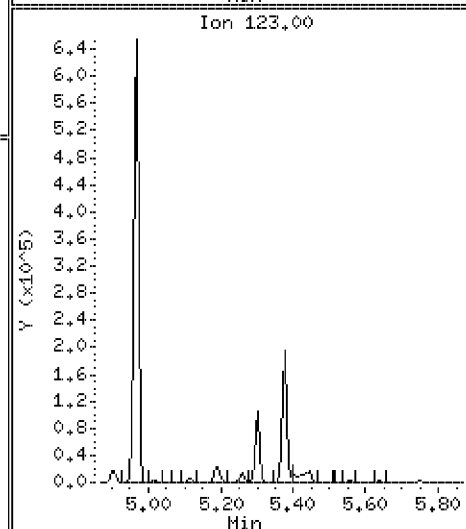
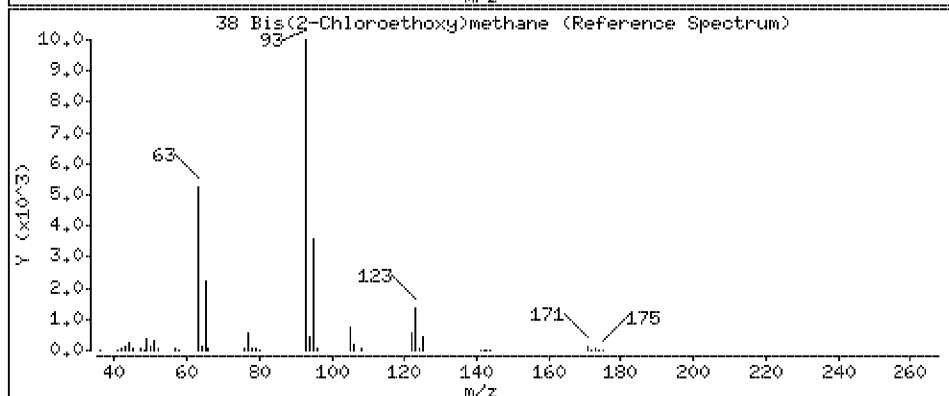
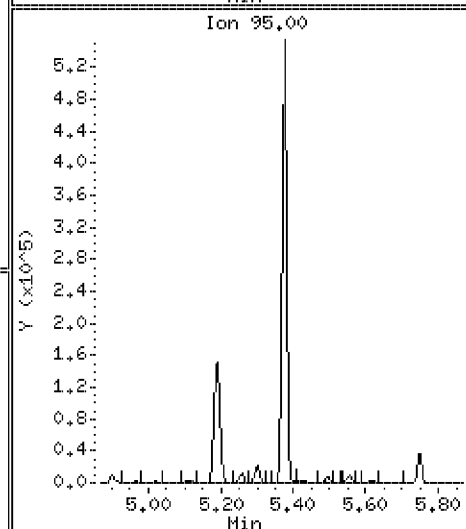
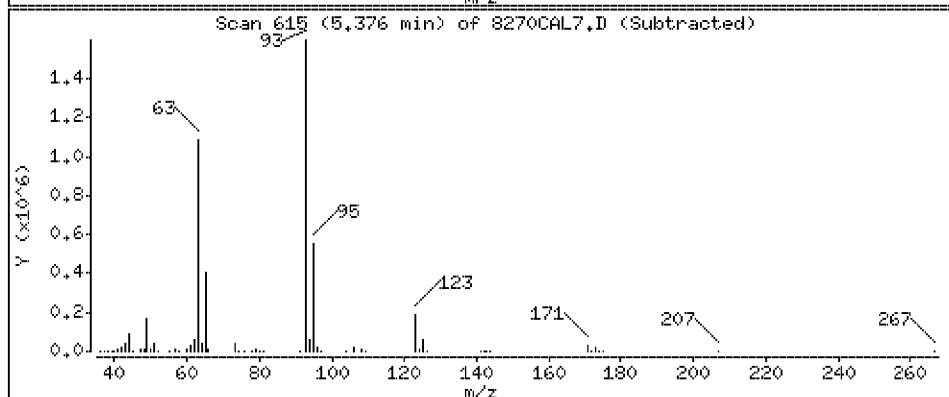
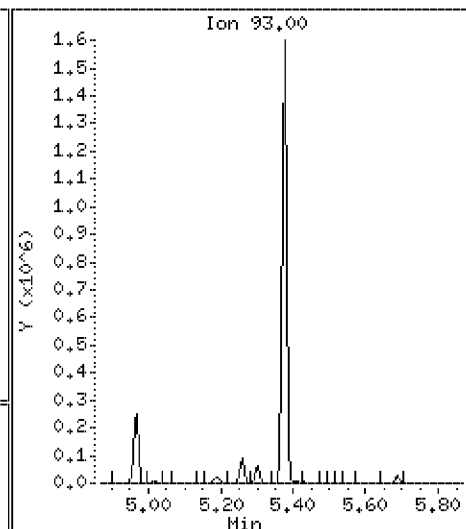
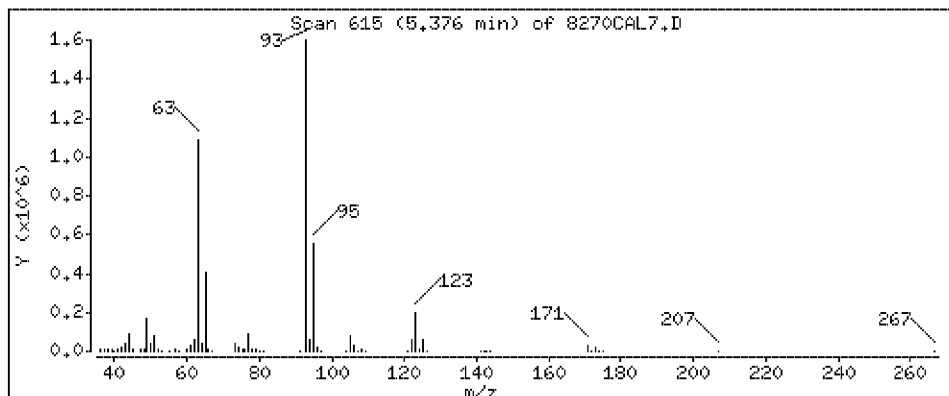
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

38 Bis(2-Chloroethoxy)methane

Concentration: 104 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

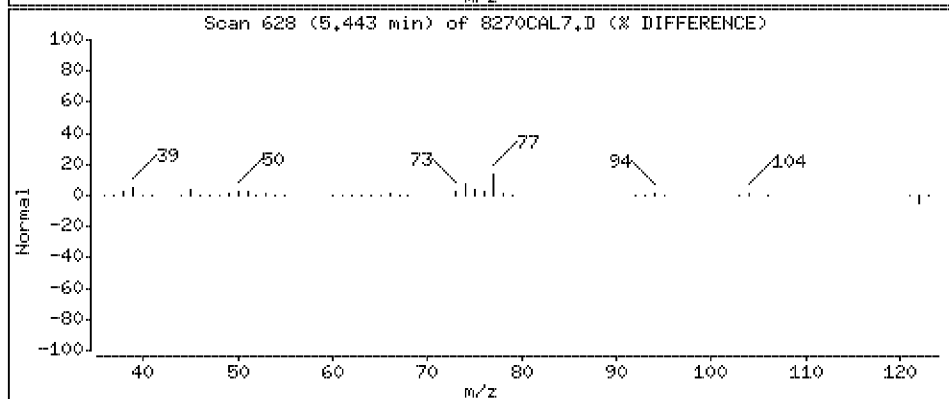
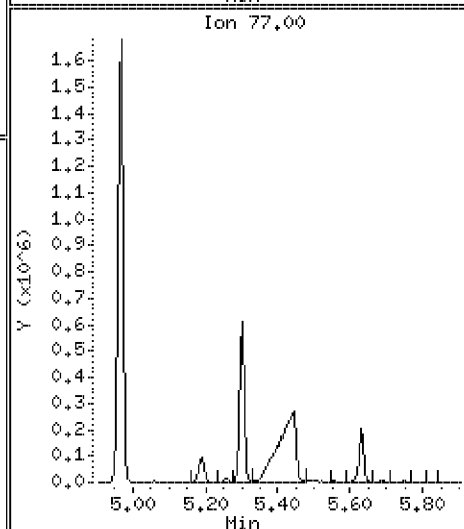
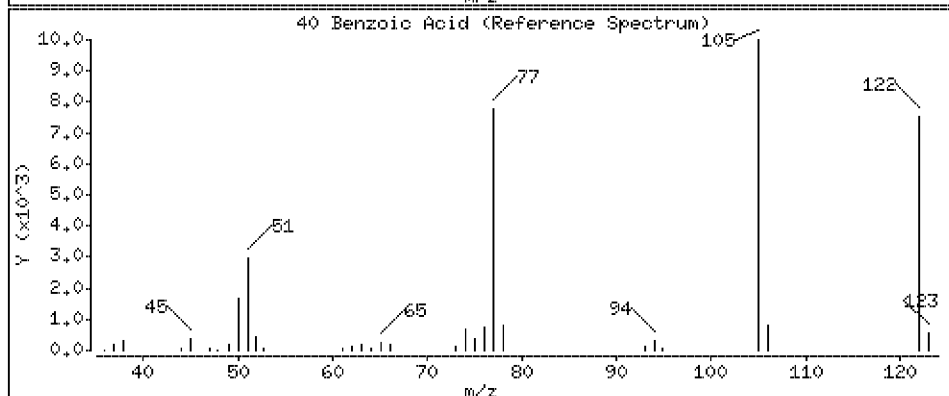
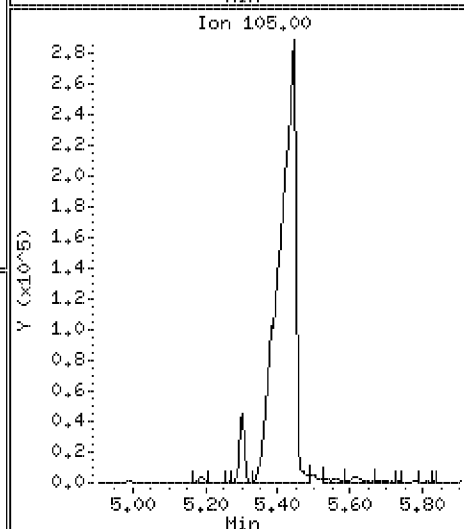
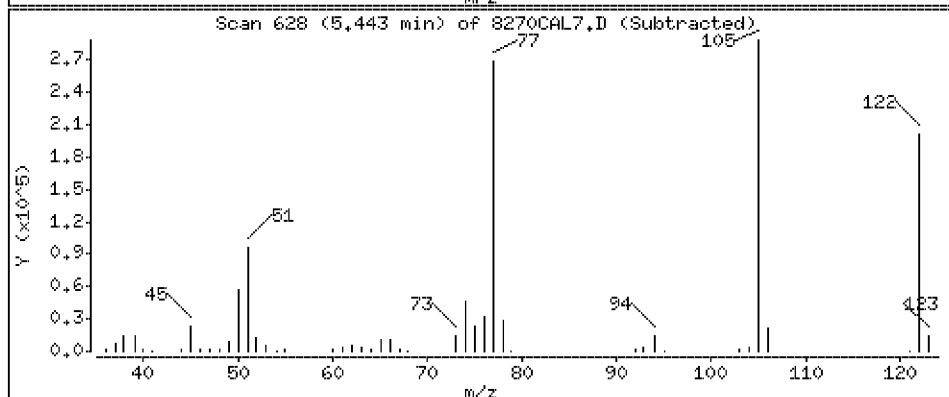
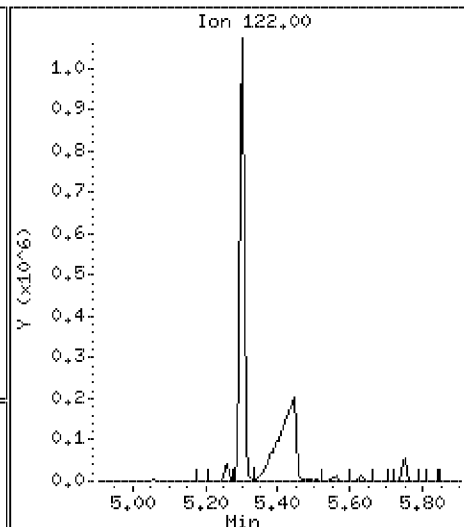
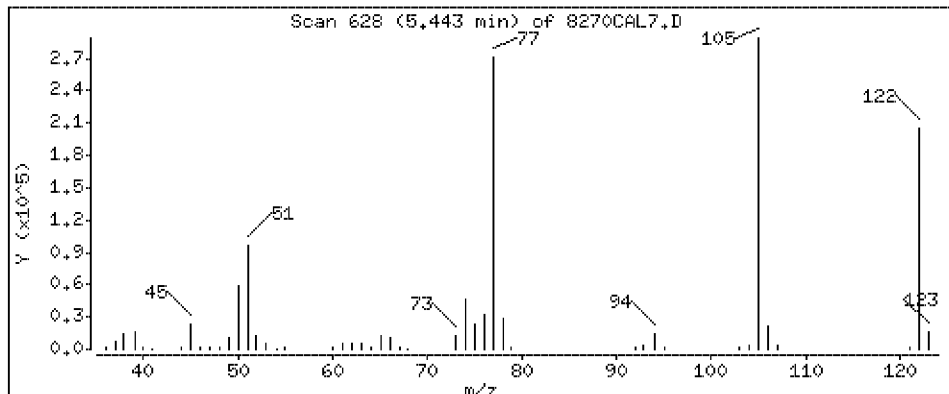
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

40 Benzoic Acid

Concentration: 100 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

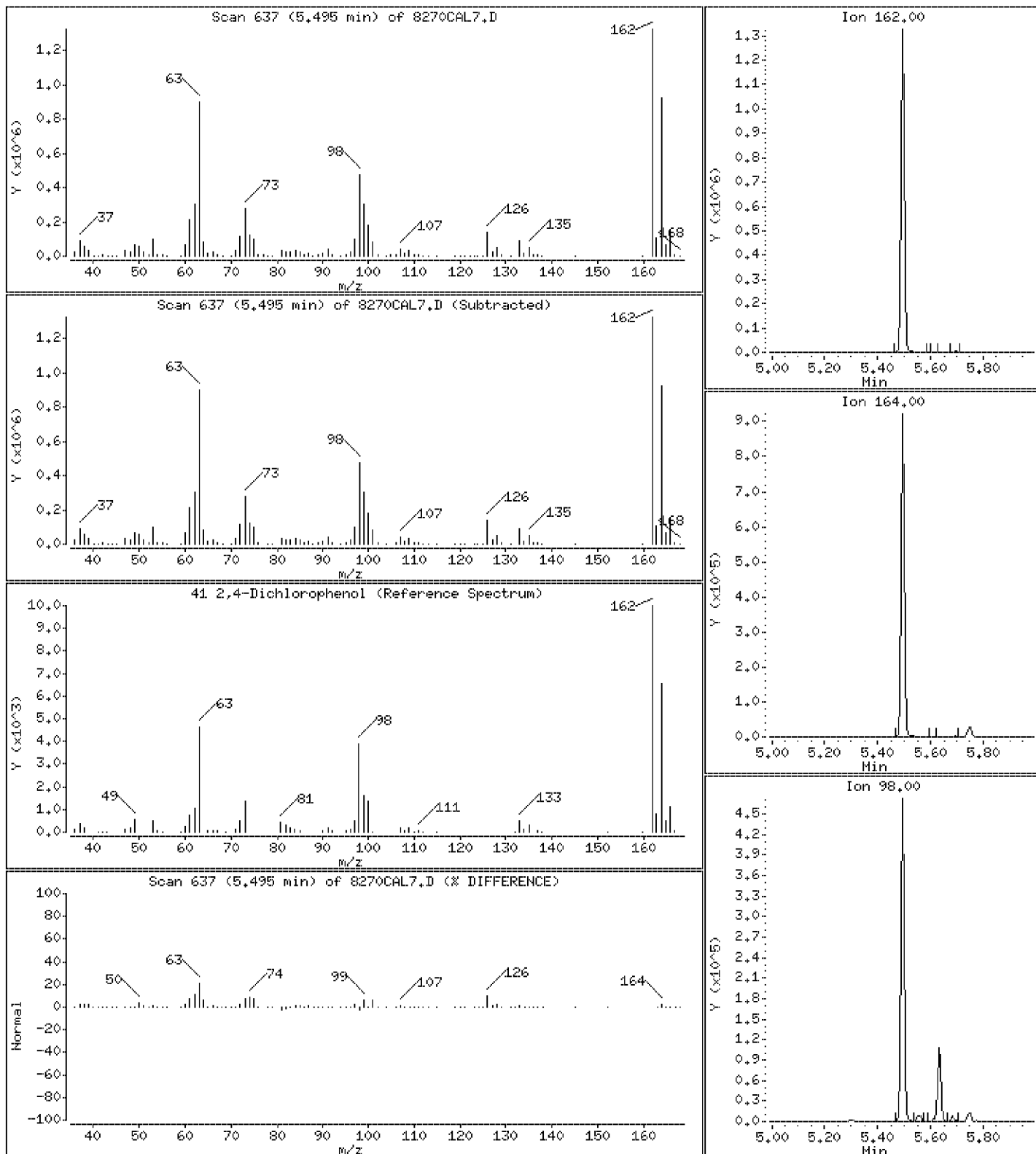
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

41 2,4-Dichlorophenol

Concentration: 107 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

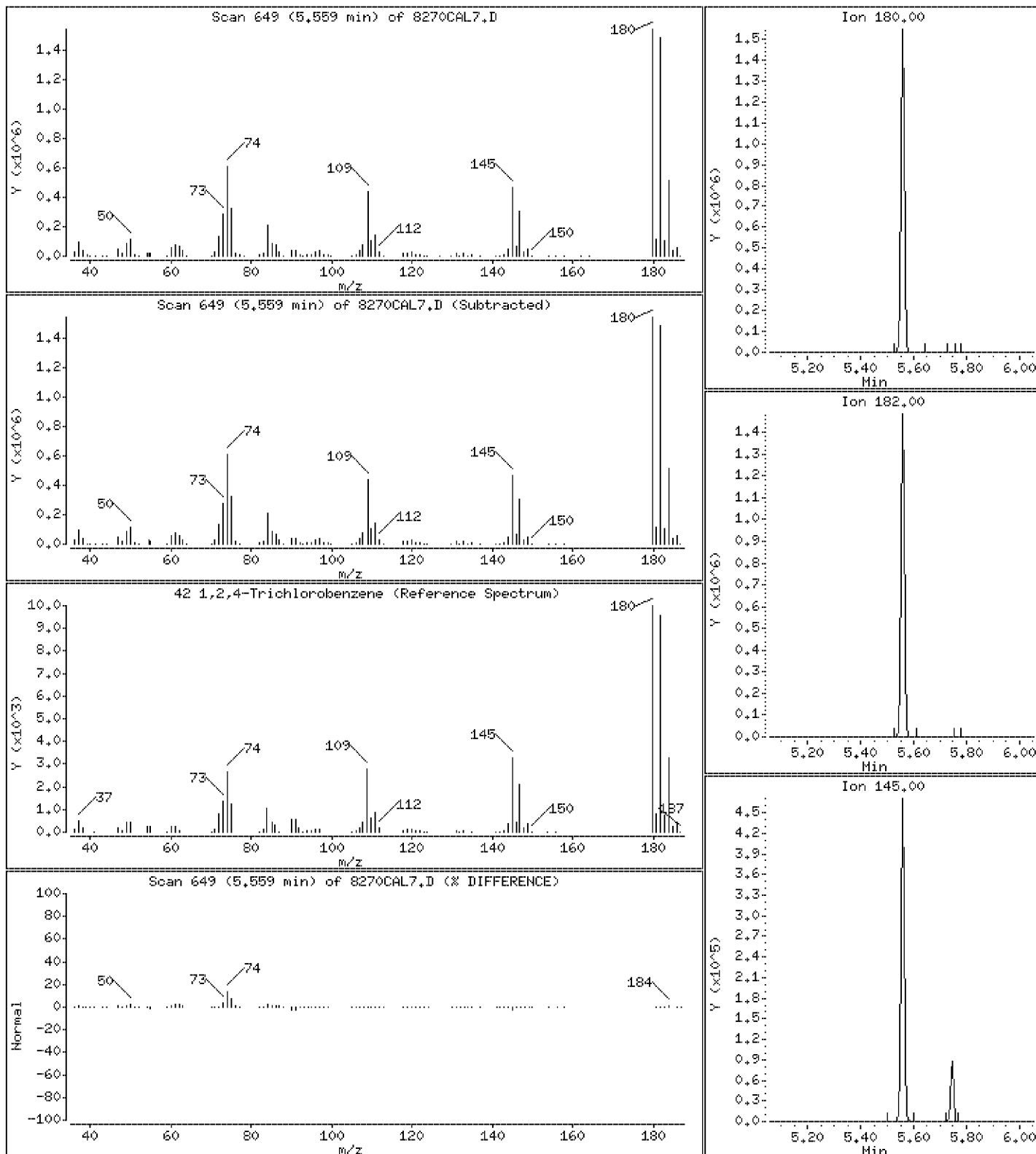
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

42 1,2,4-Trichlorobenzene

Concentration: 104 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

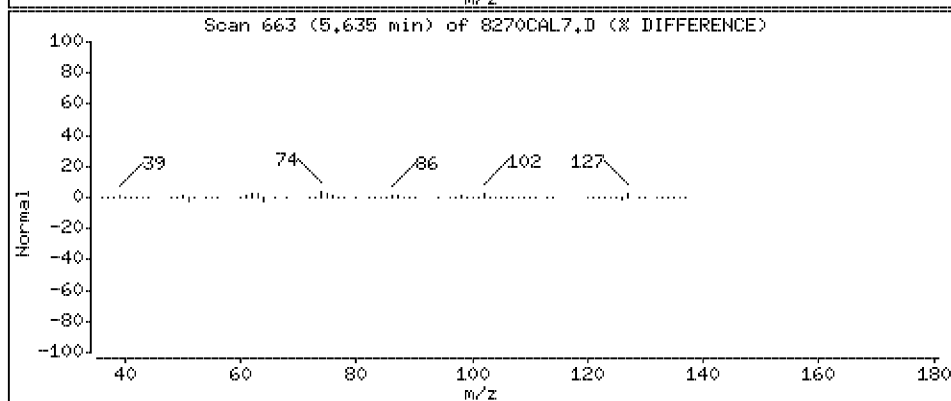
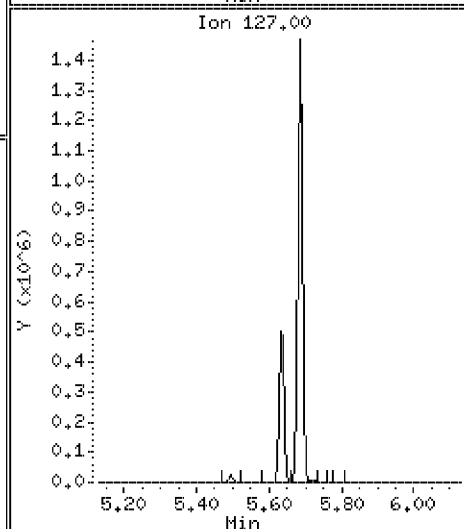
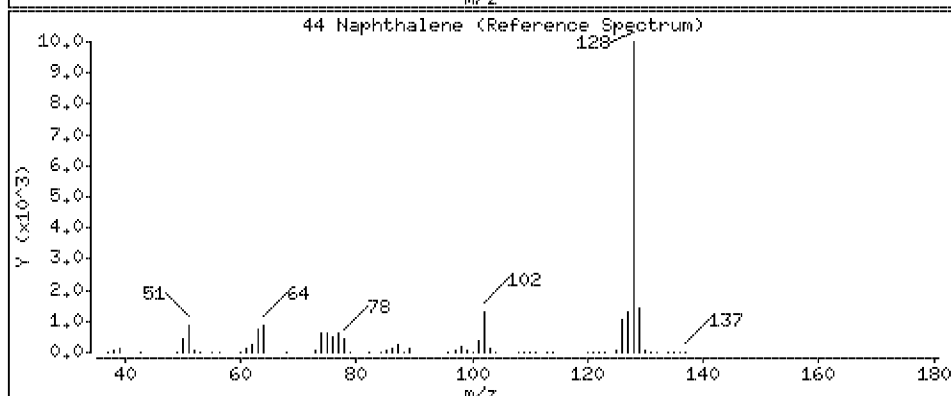
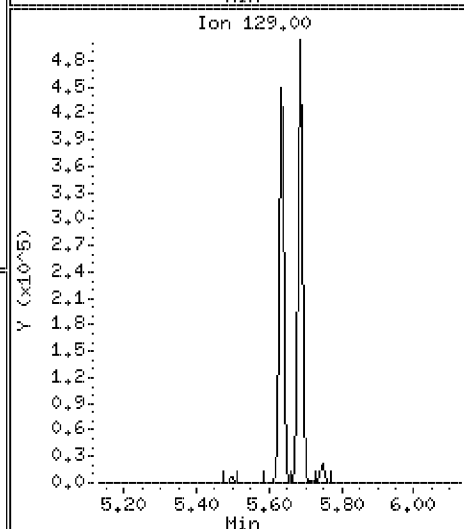
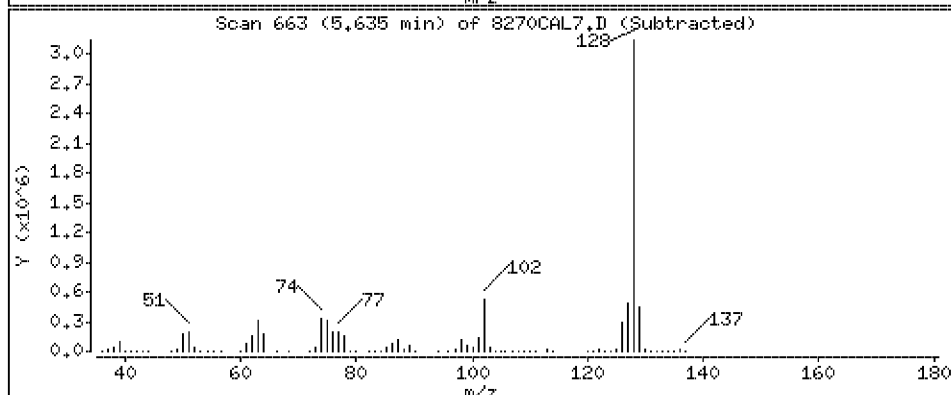
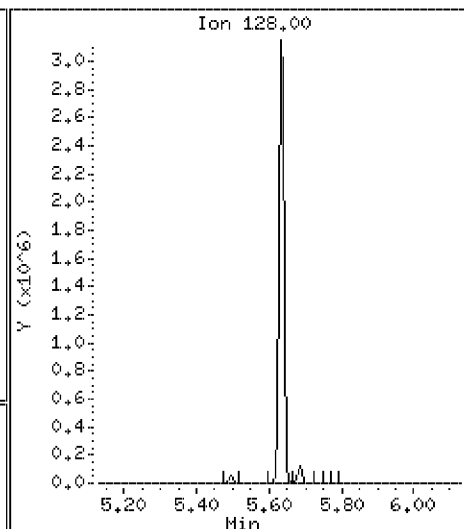
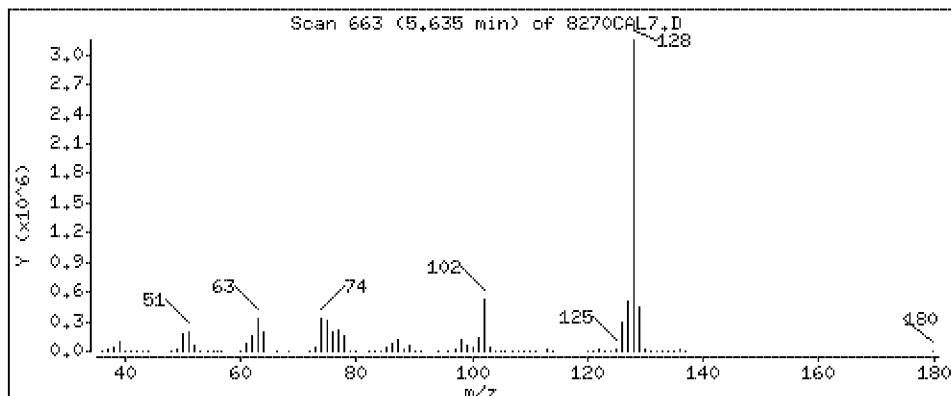
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

44 Naphthalene

Concentration: 97.9 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

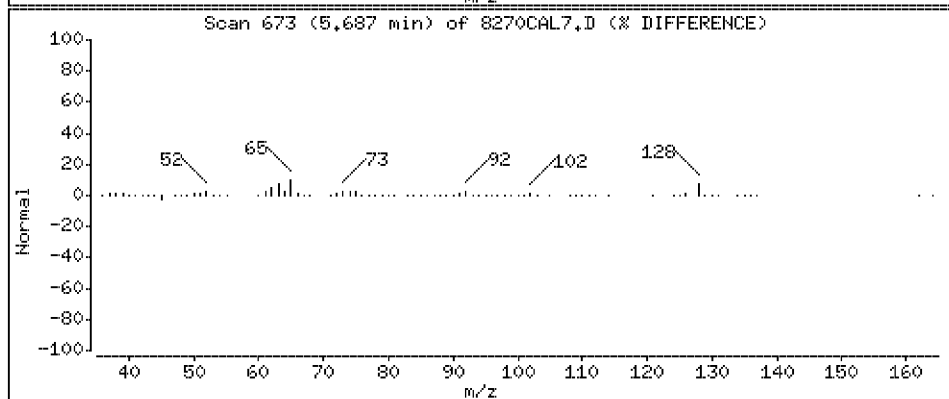
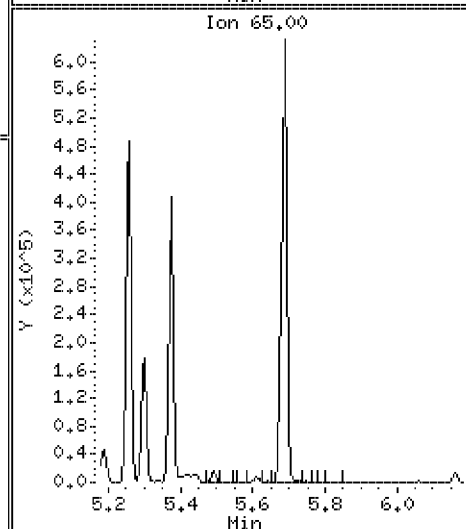
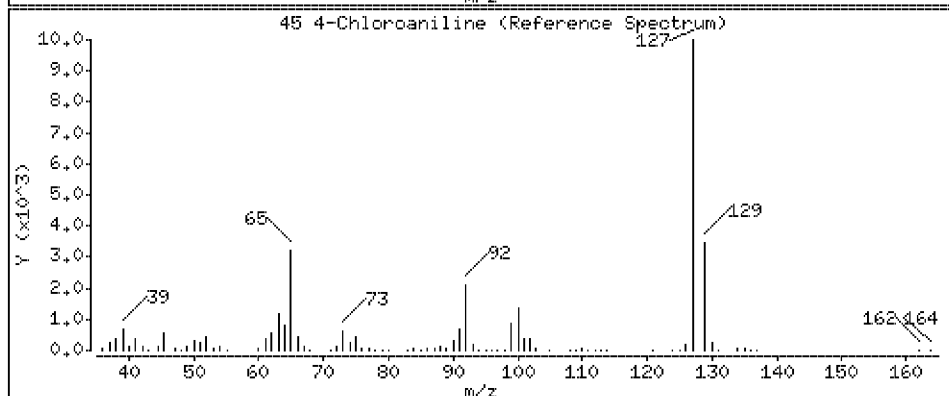
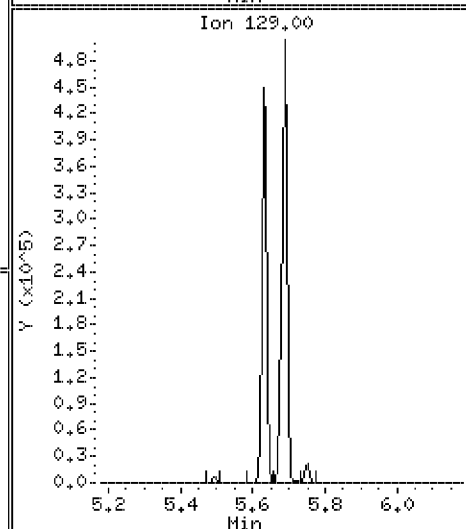
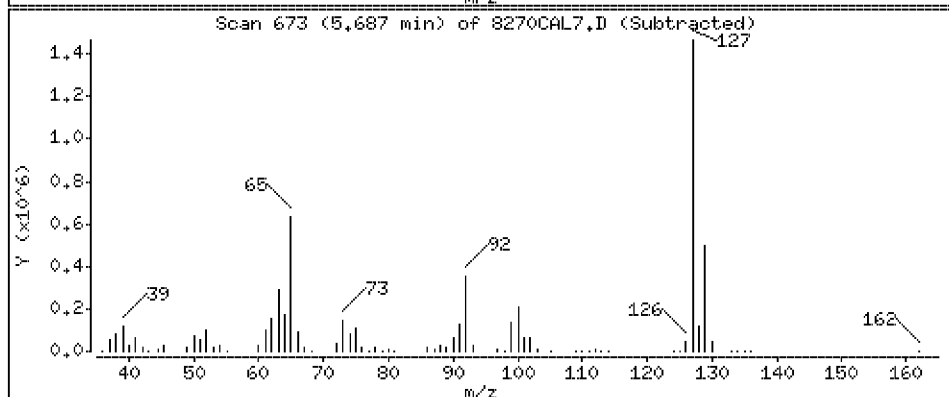
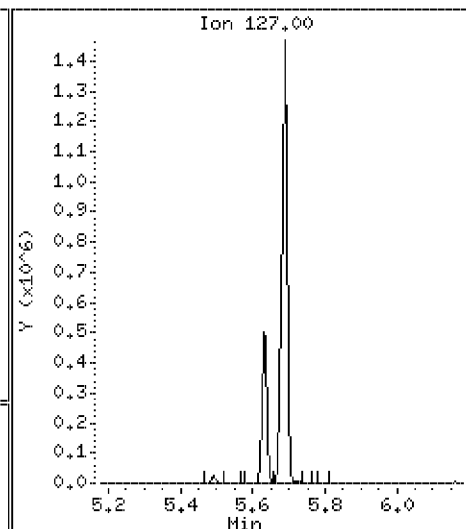
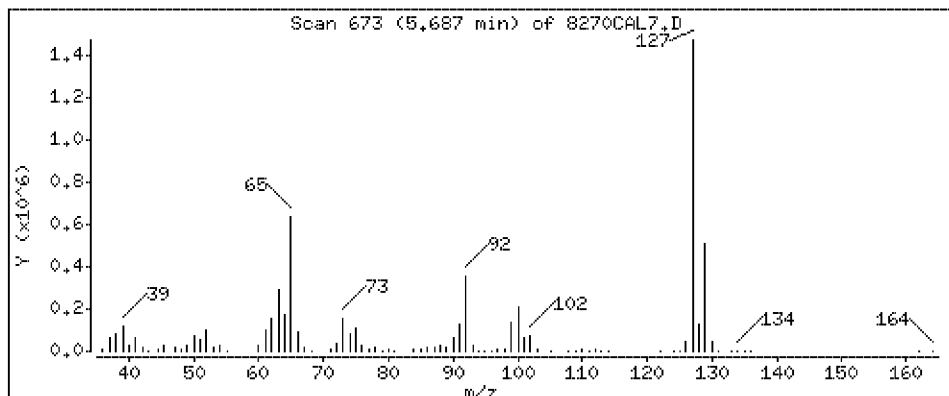
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

45 4-Chloroaniline

Concentration: 101 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

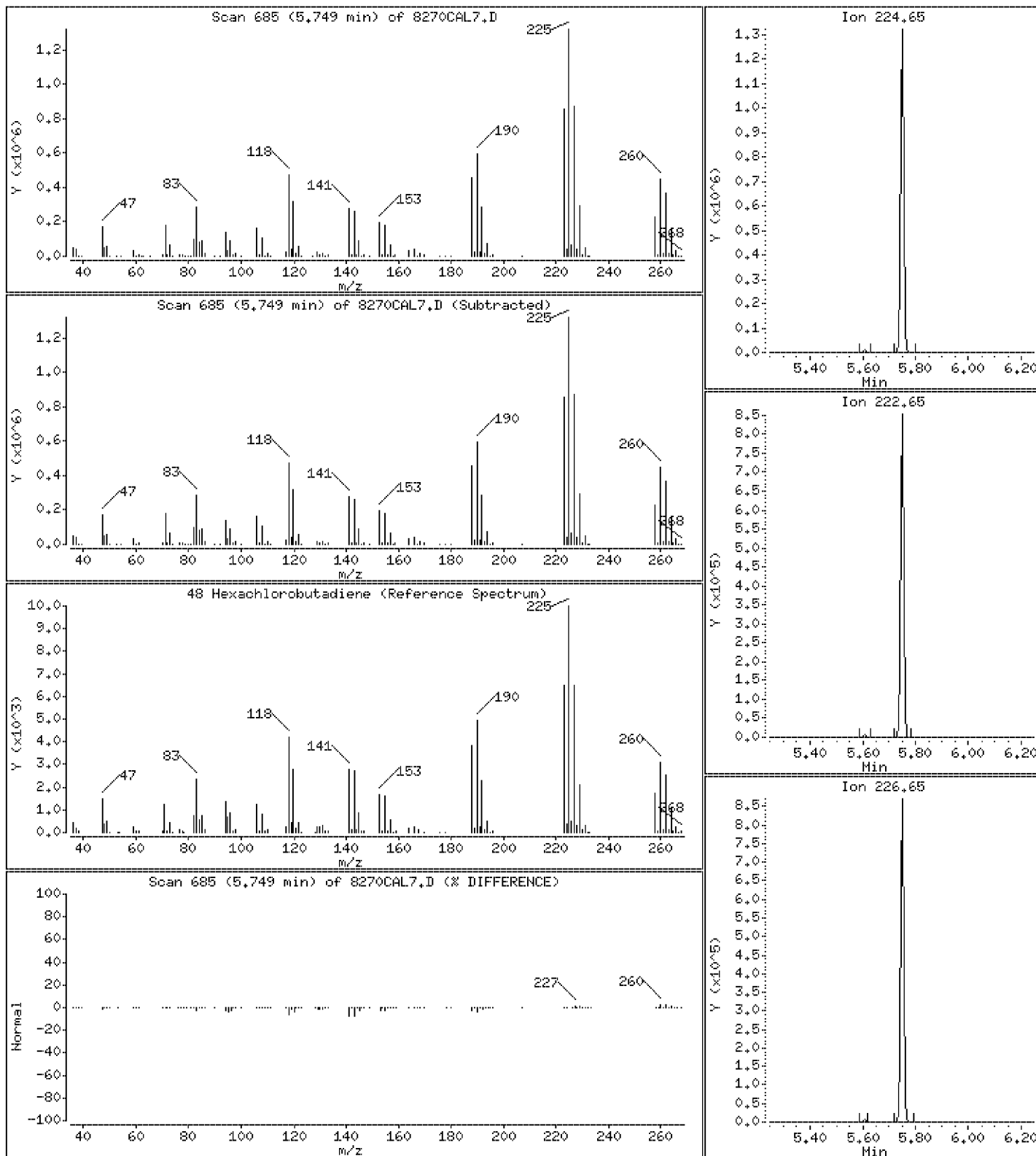
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

48 Hexachlorobutadiene

Concentration: 105 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

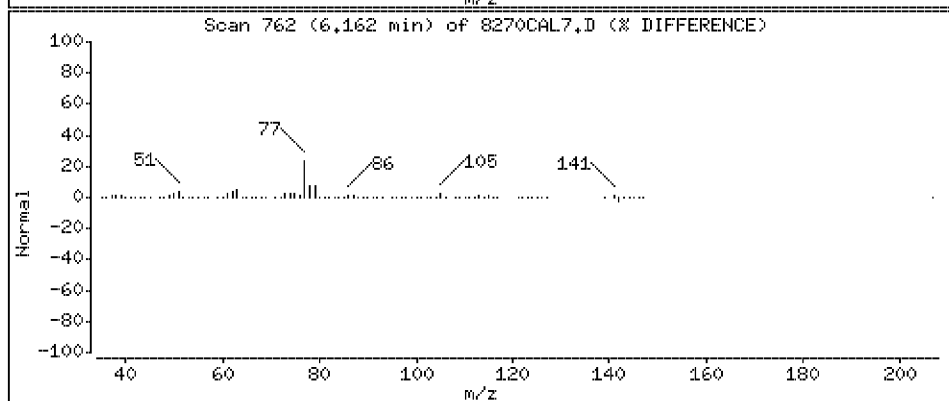
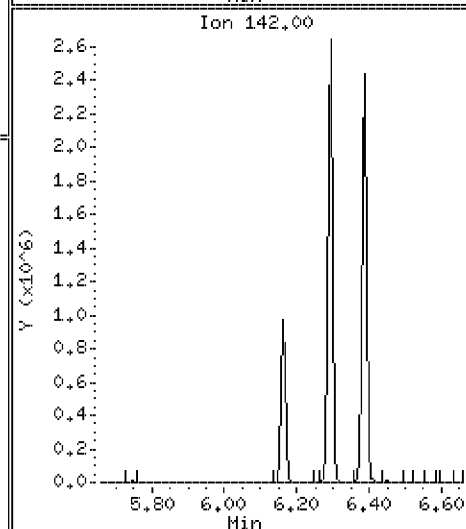
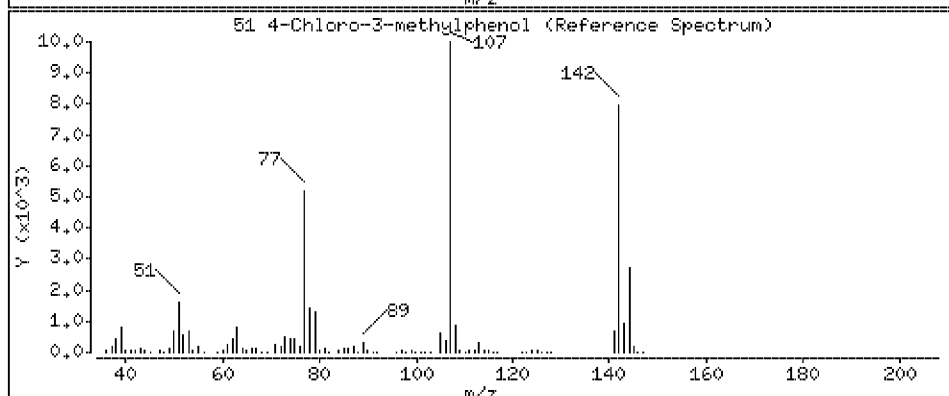
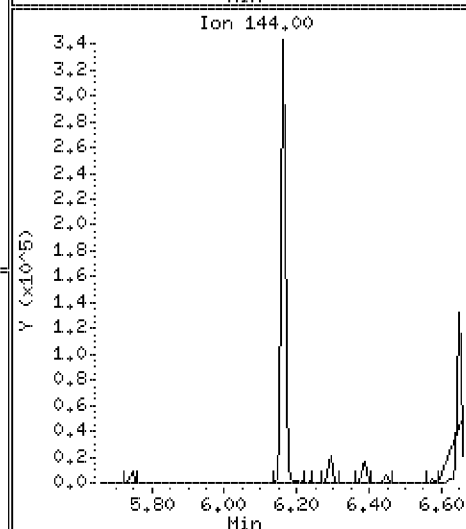
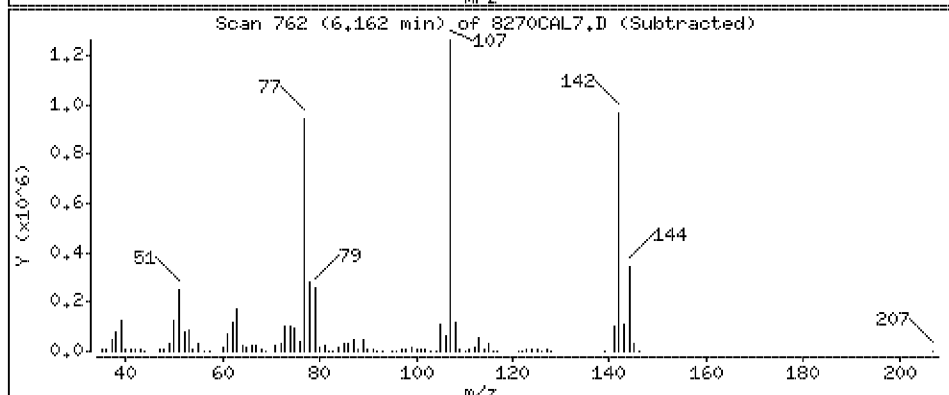
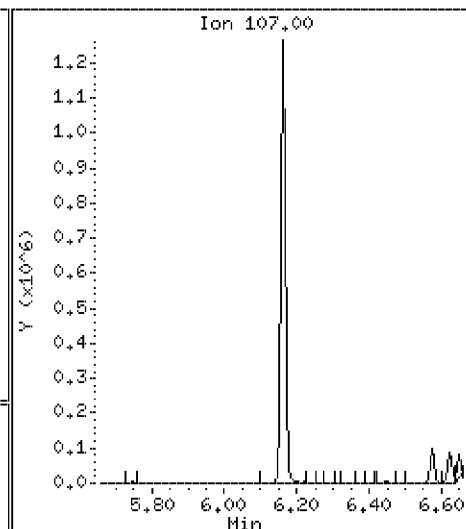
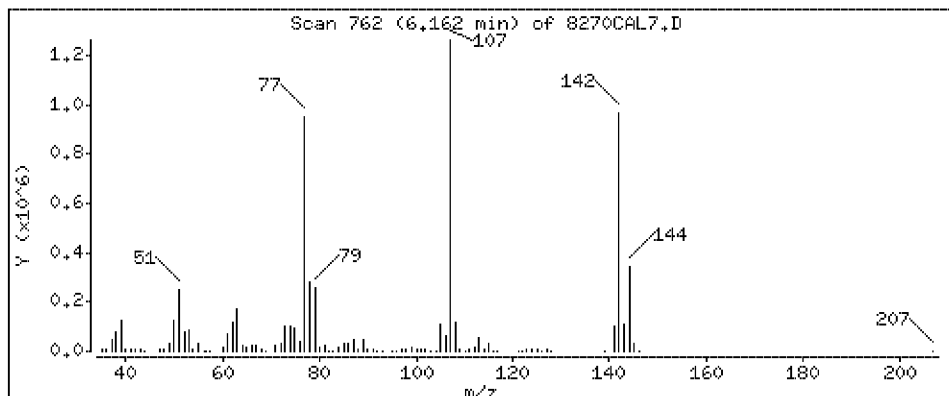
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

51 4-Chloro-3-methylphenol

Concentration: 106 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

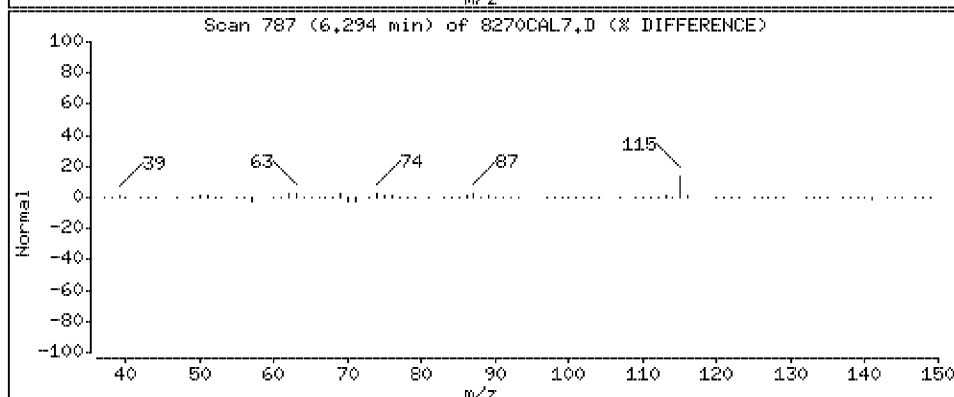
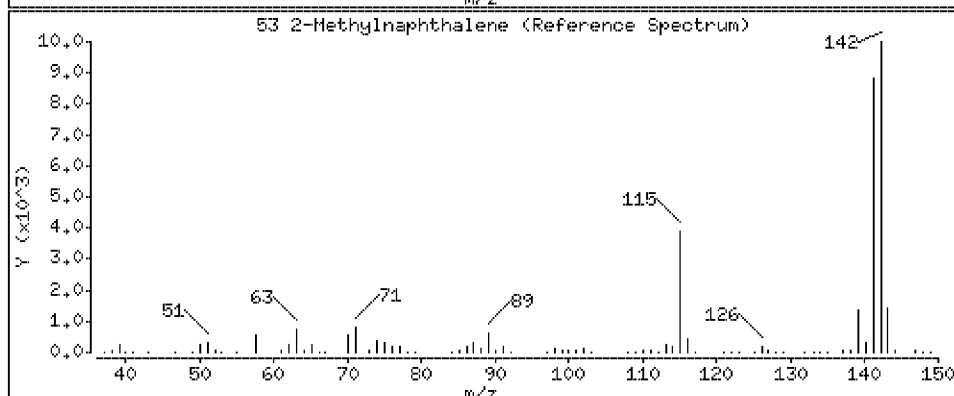
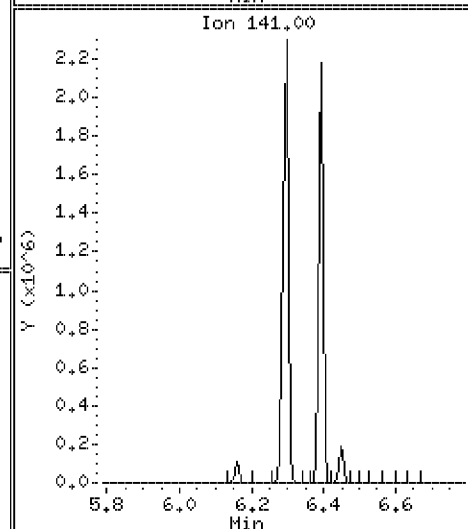
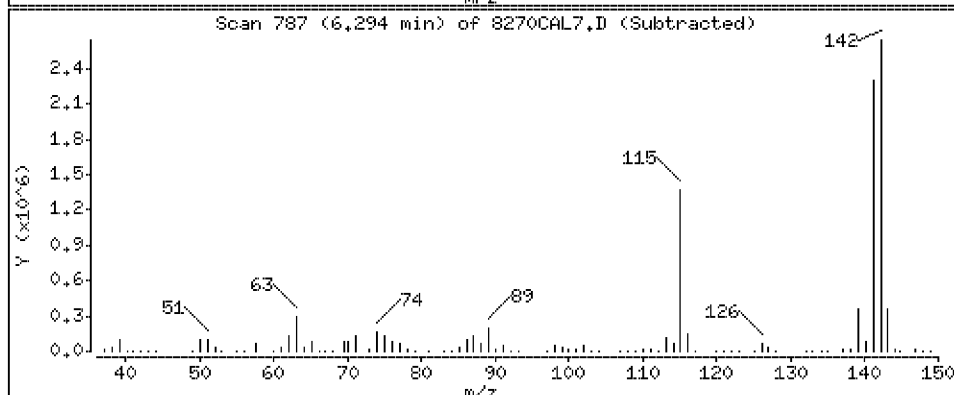
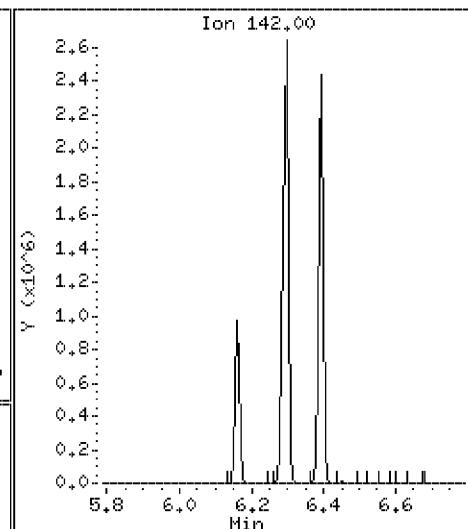
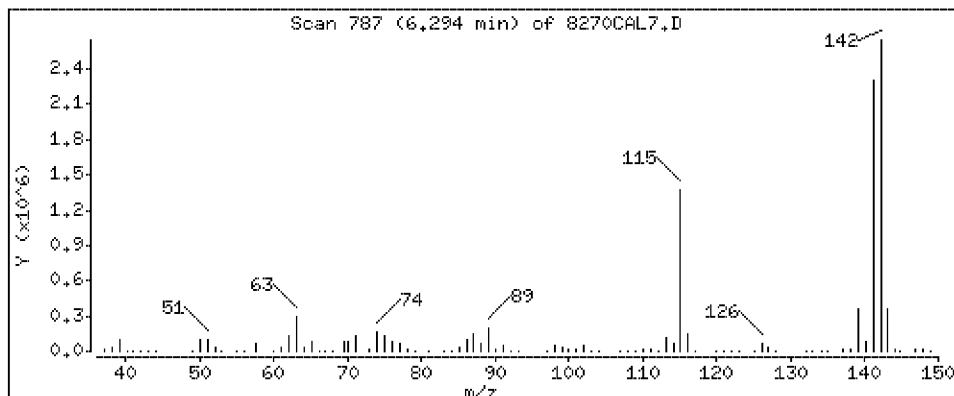
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

53 2-Methylnaphthalene

Concentration: 103 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

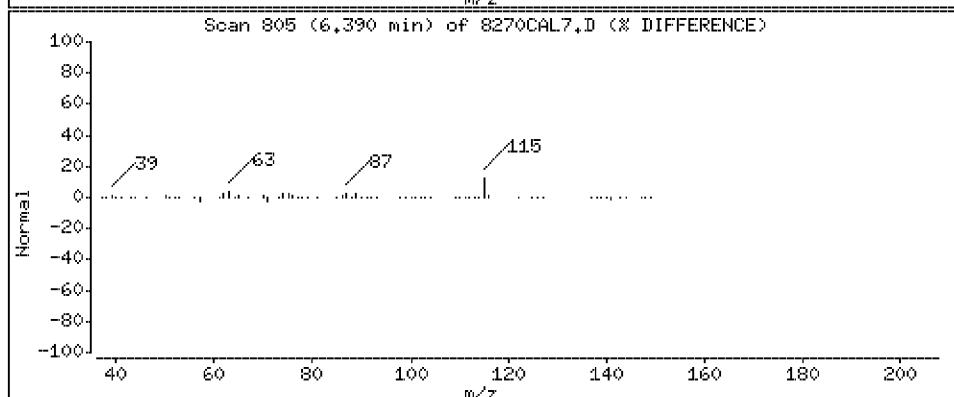
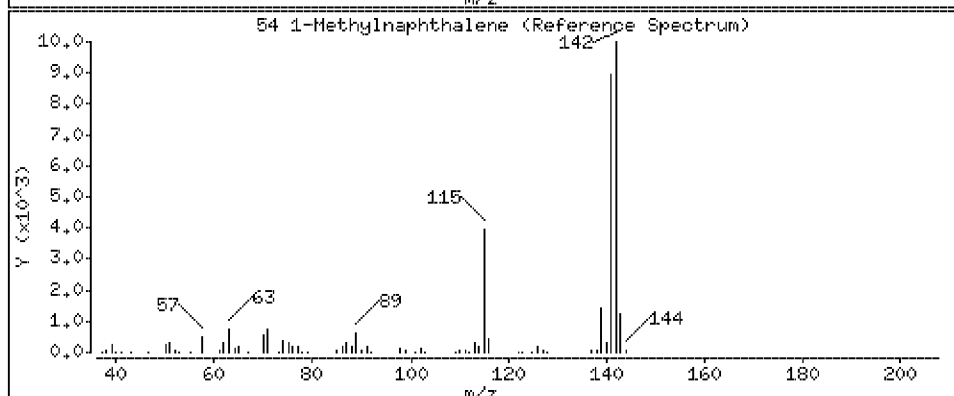
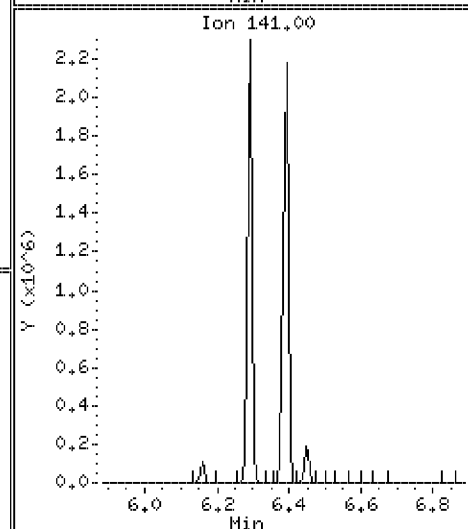
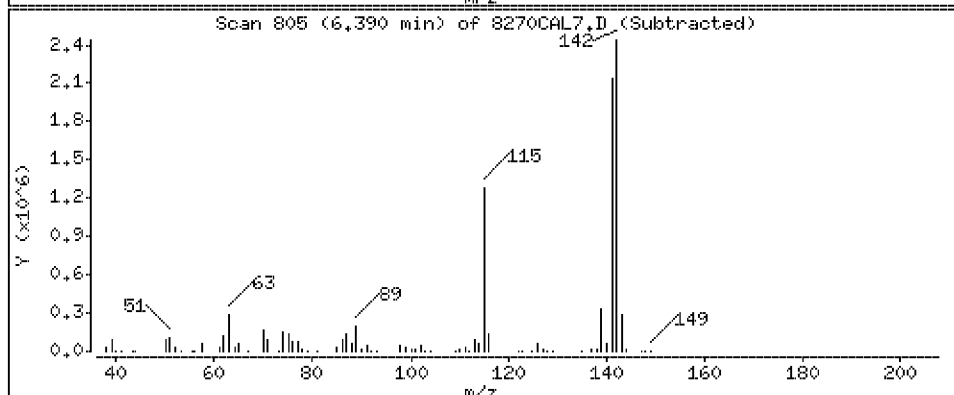
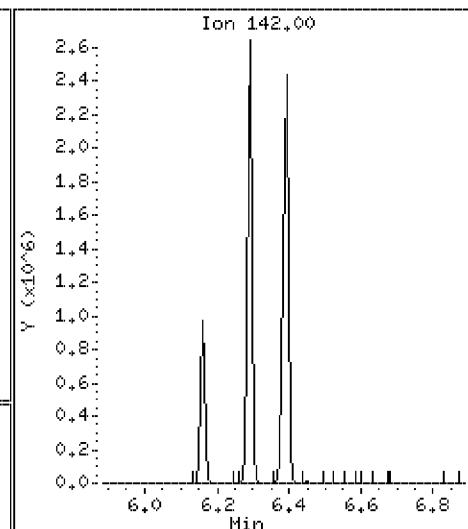
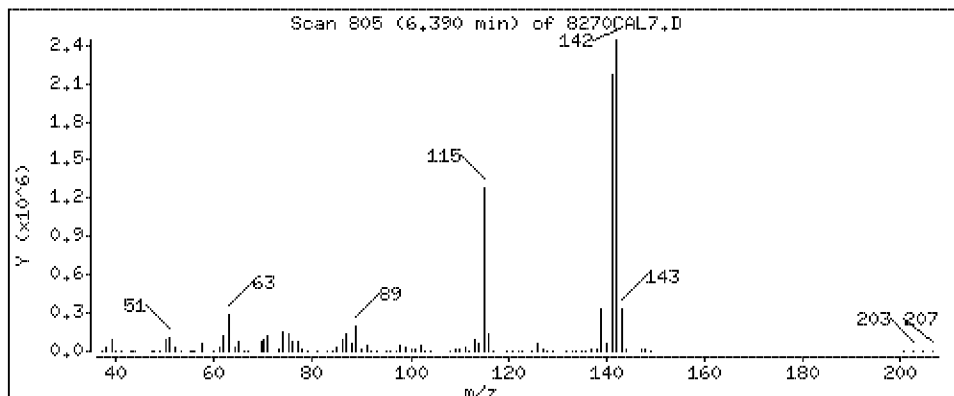
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

54 1-Methylnaphthalene

Concentration: 105 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

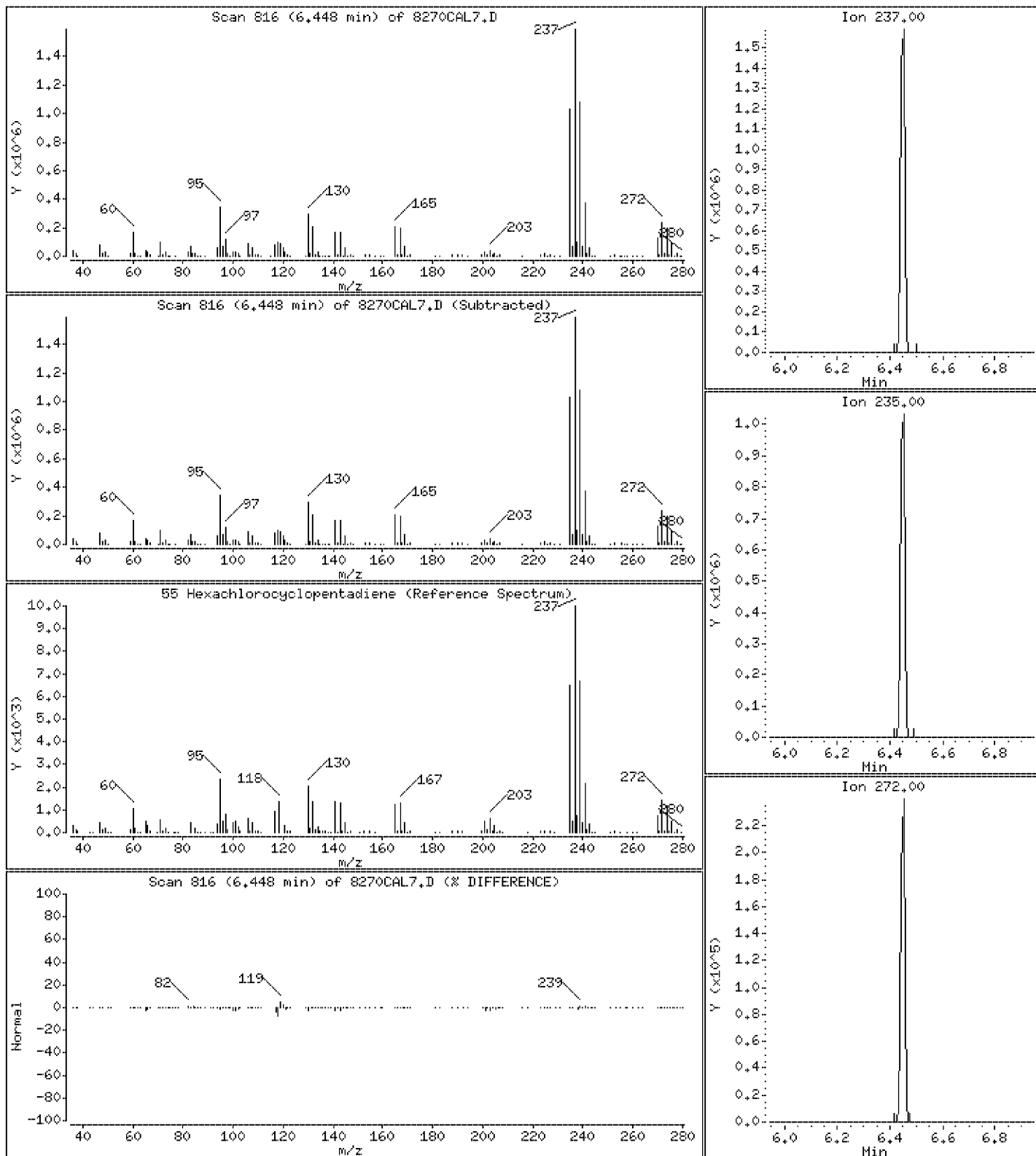
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

55 Hexachlorocyclopentadiene

Concentration: 109 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

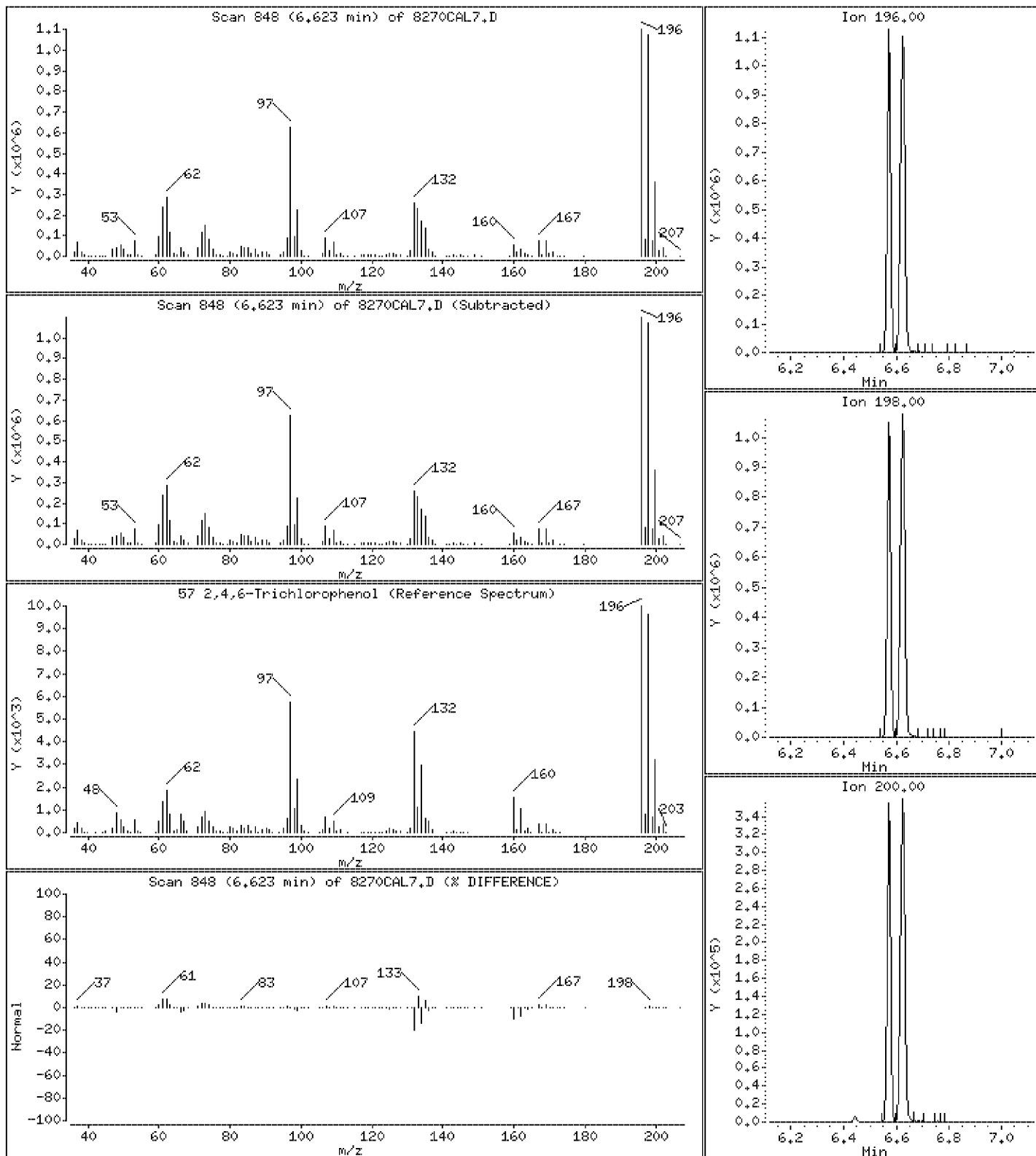
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

57 2,4,6-Trichlorophenol

Concentration: 107 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

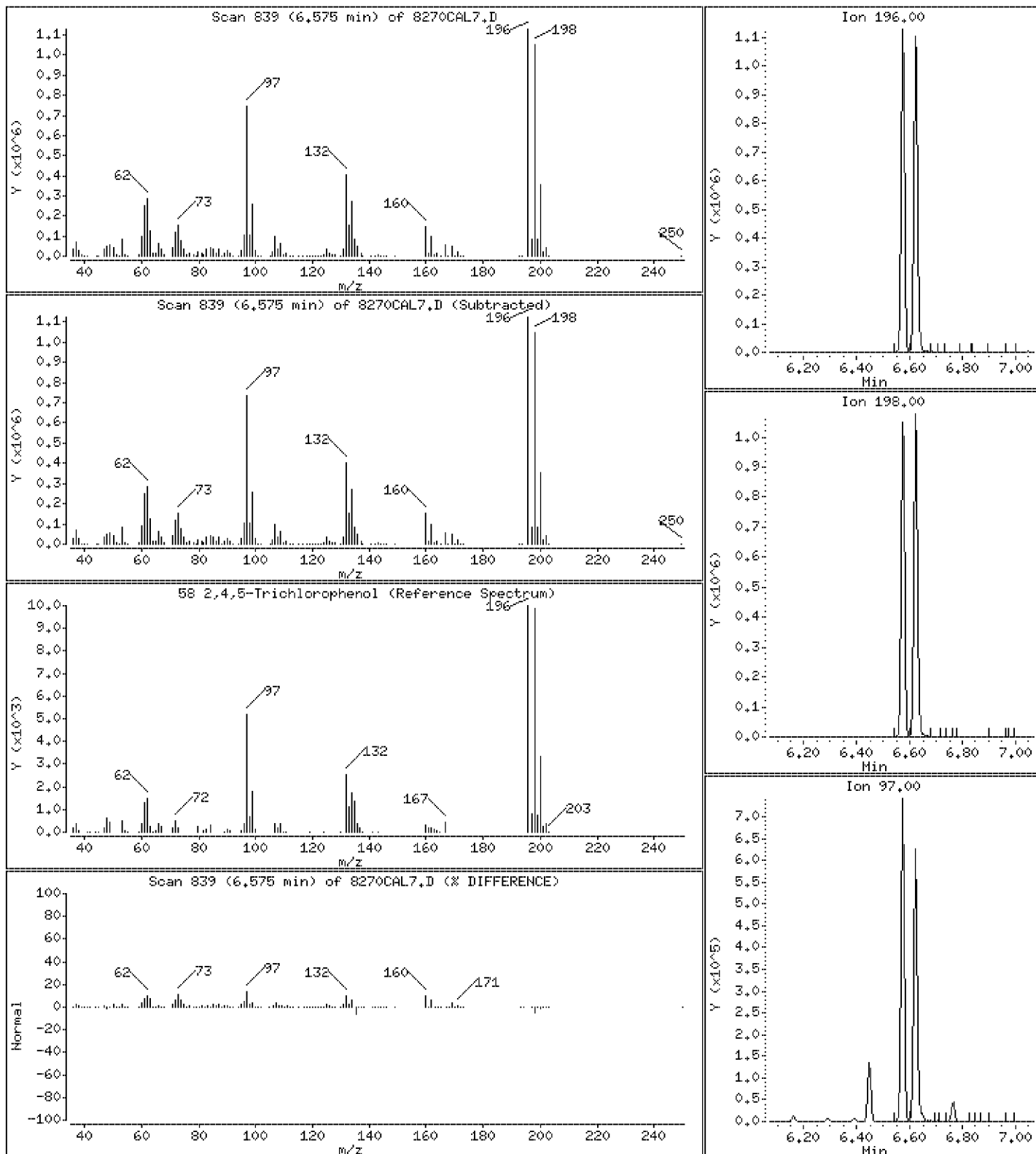
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

58 2,4,5-Trichlorophenol

Concentration: 107 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

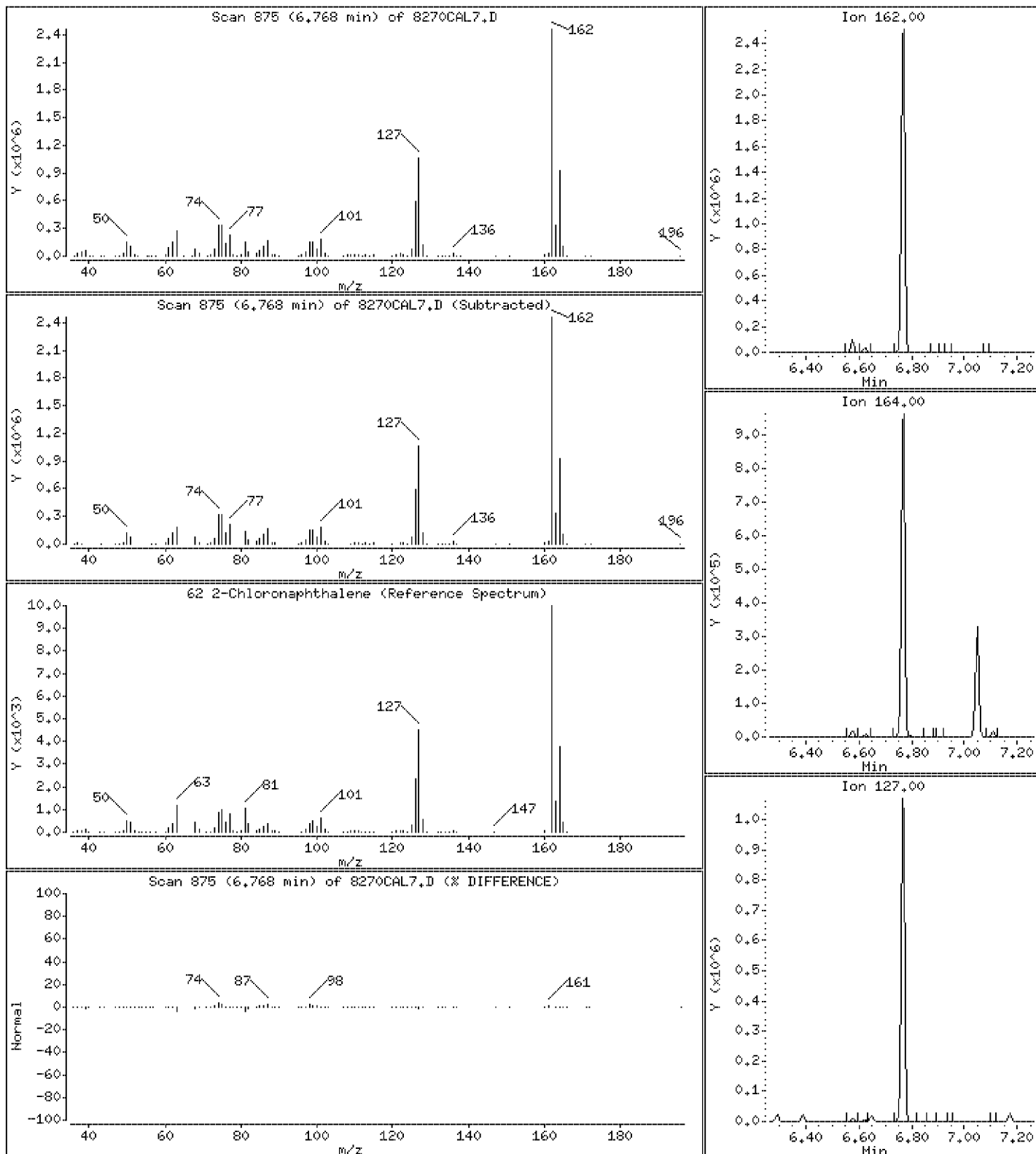
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

62 2-Chloronaphthalene

Concentration: 103 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

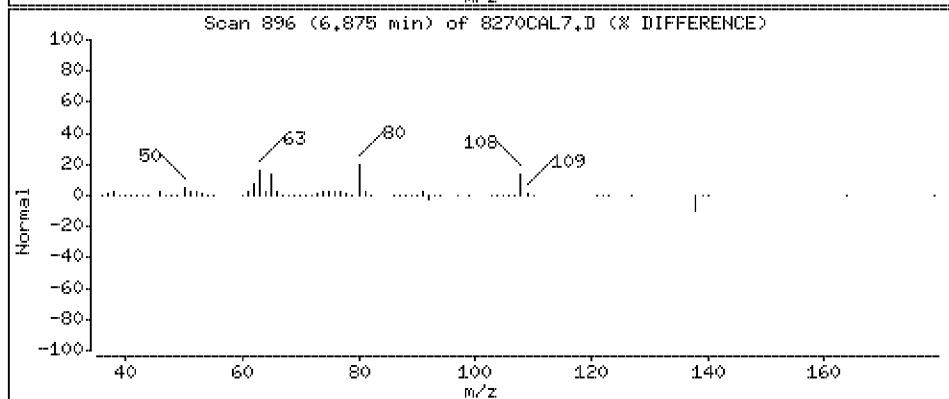
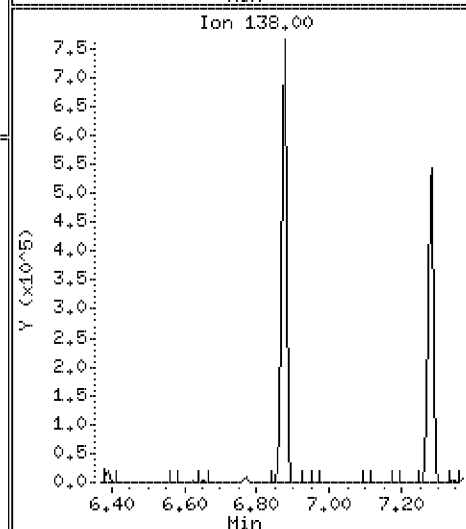
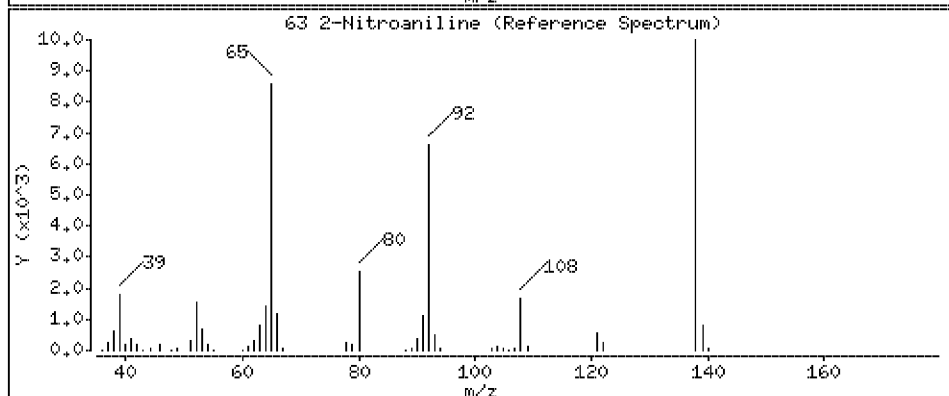
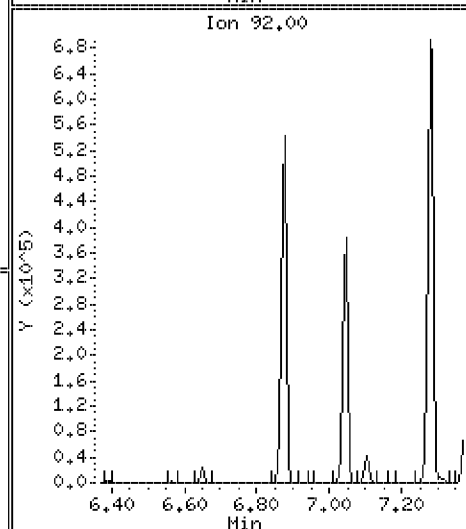
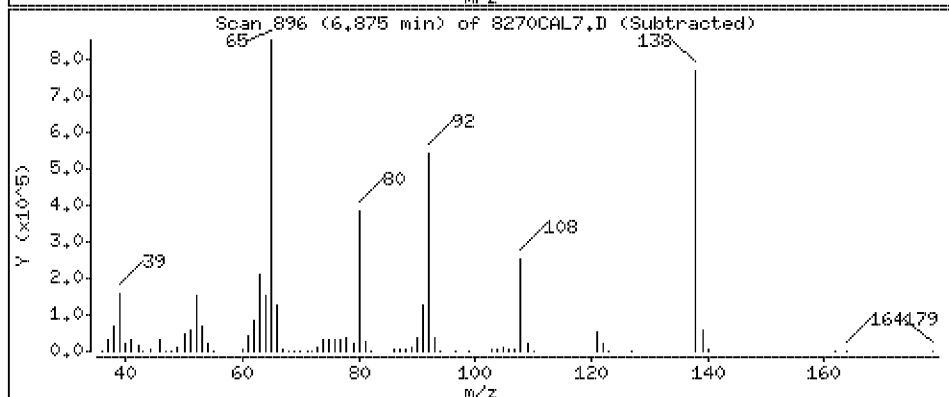
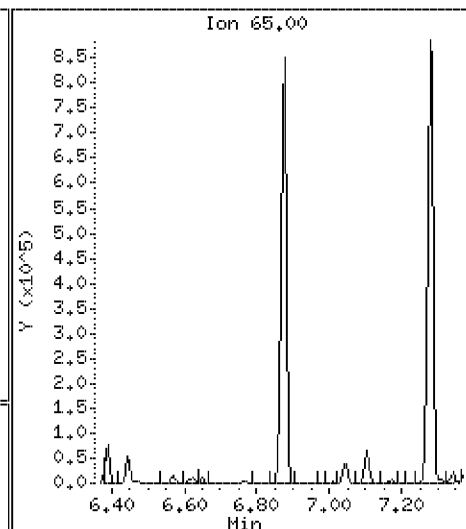
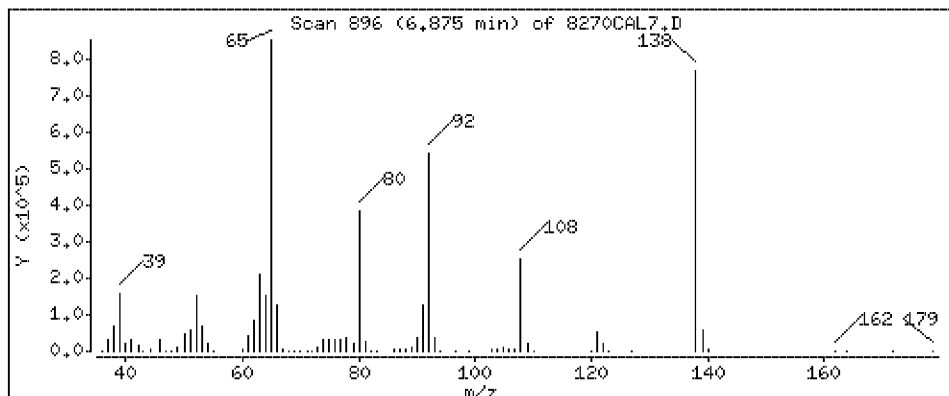
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

63 2-Nitroaniline

Concentration: 104 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

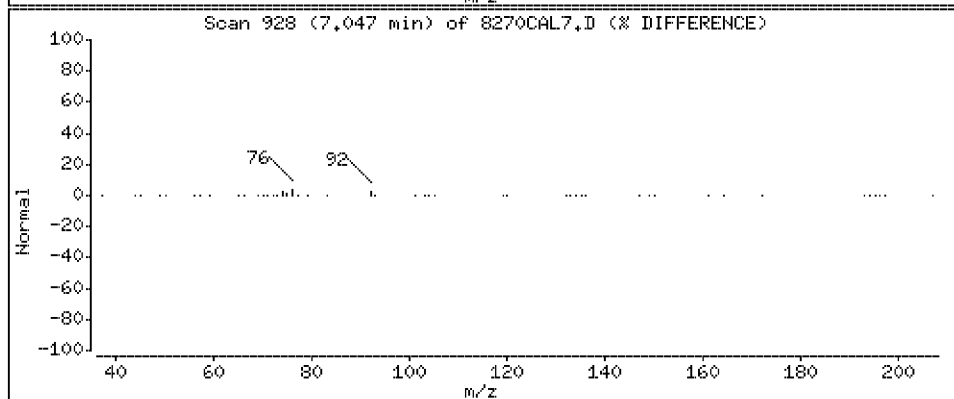
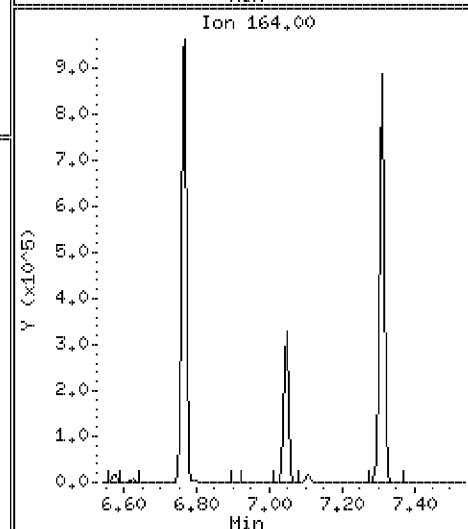
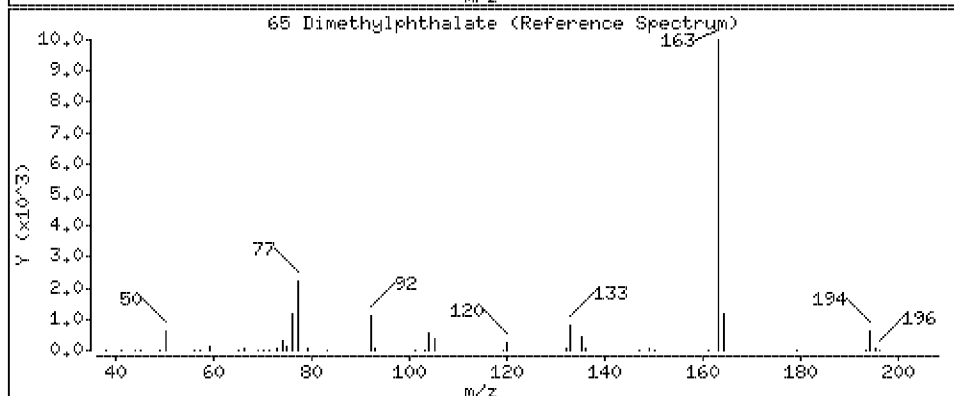
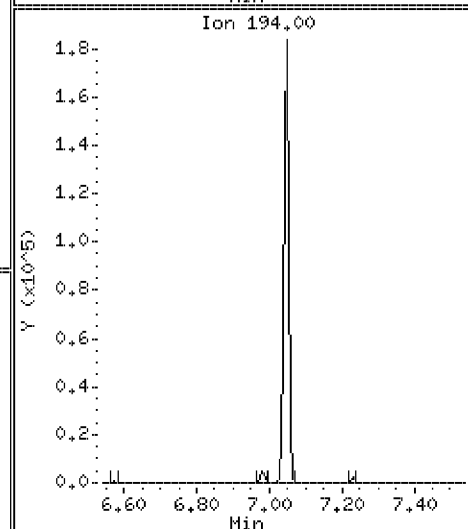
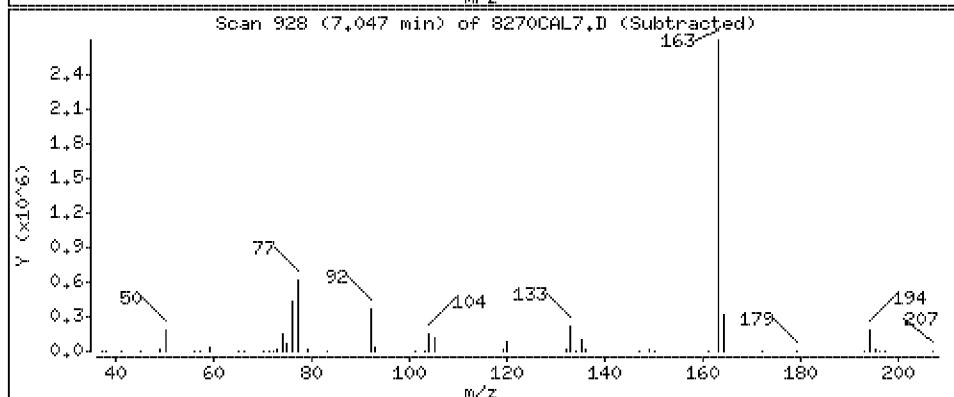
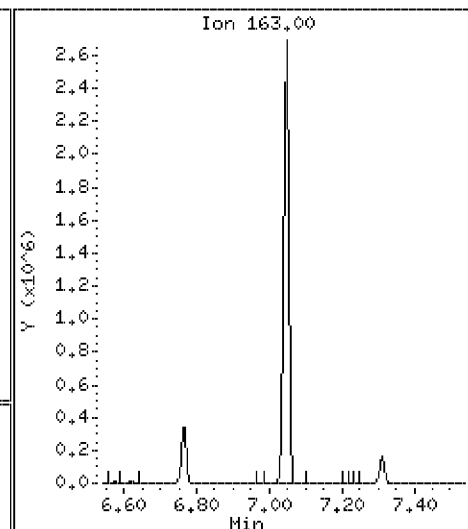
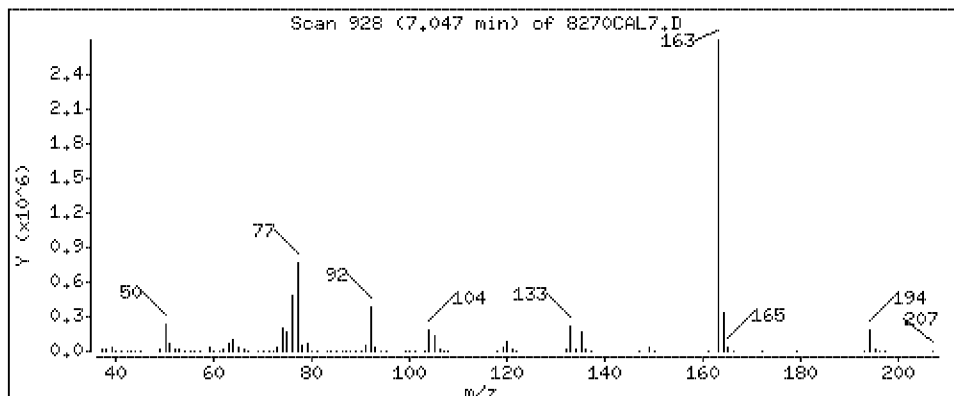
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

65 Dimethylphthalate

Concentration: 97.0 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

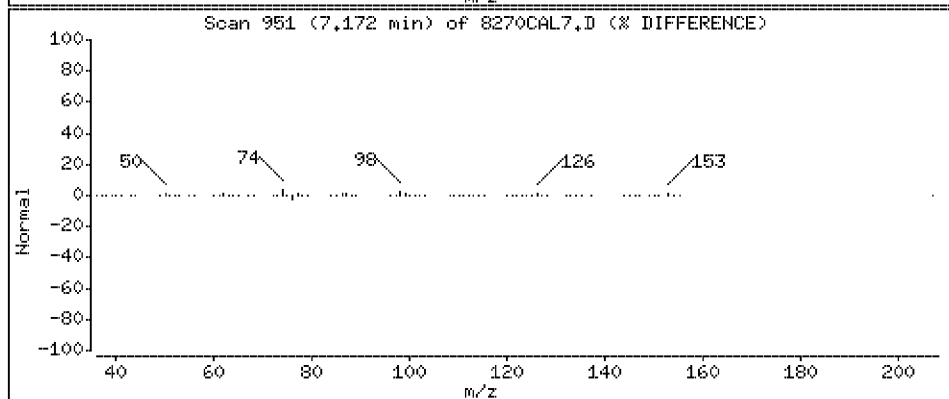
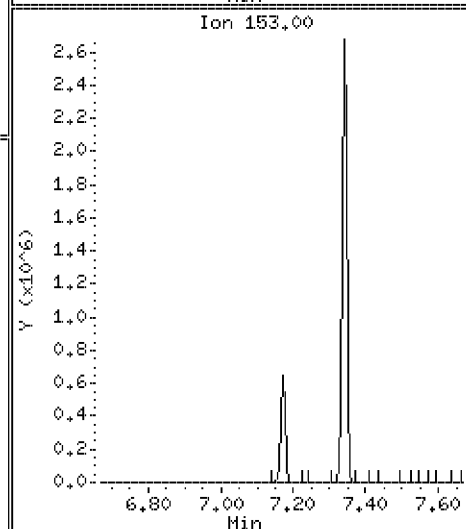
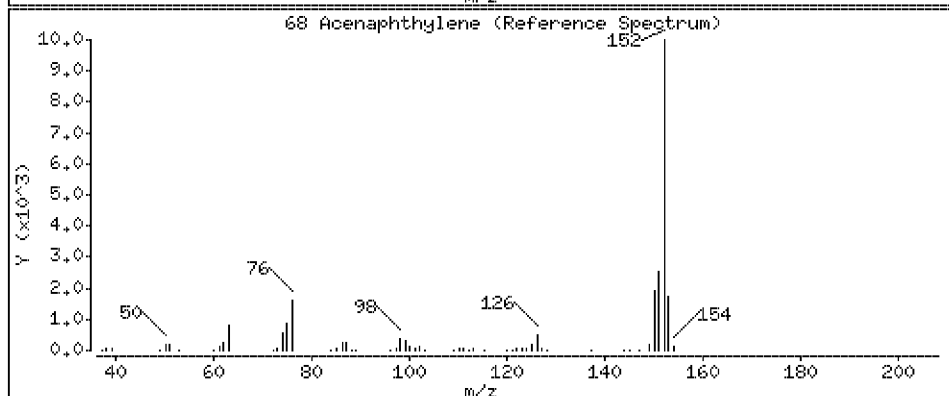
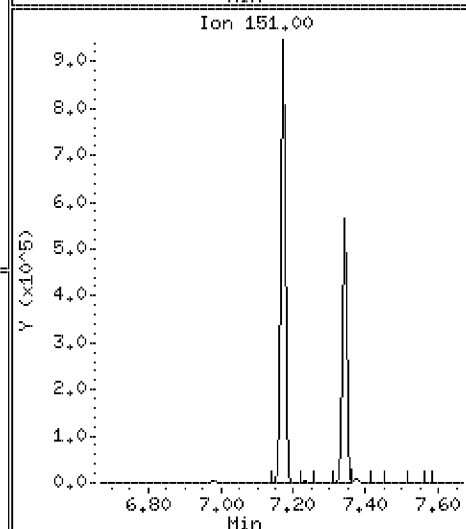
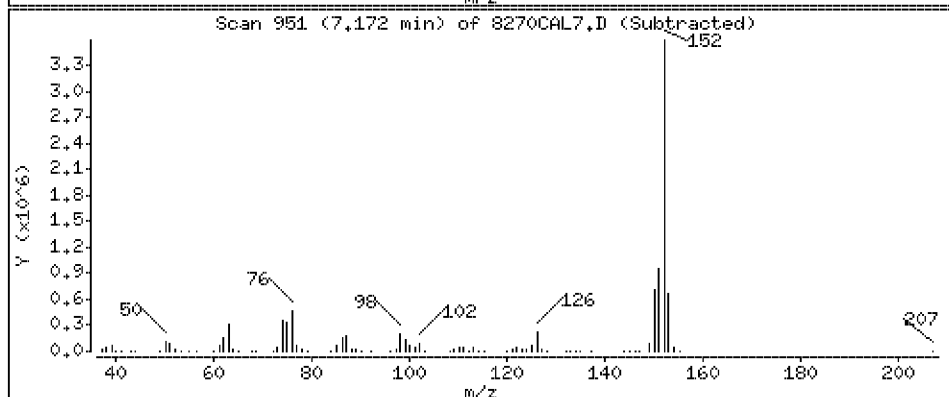
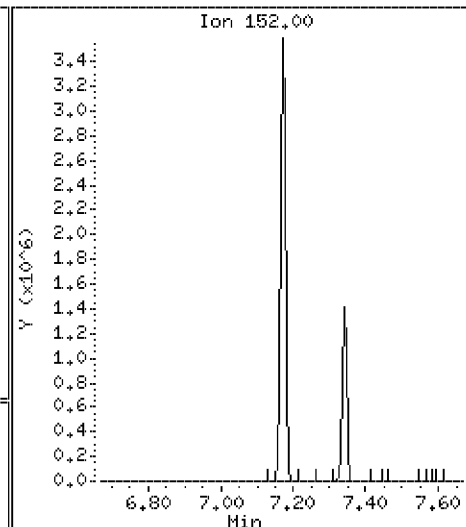
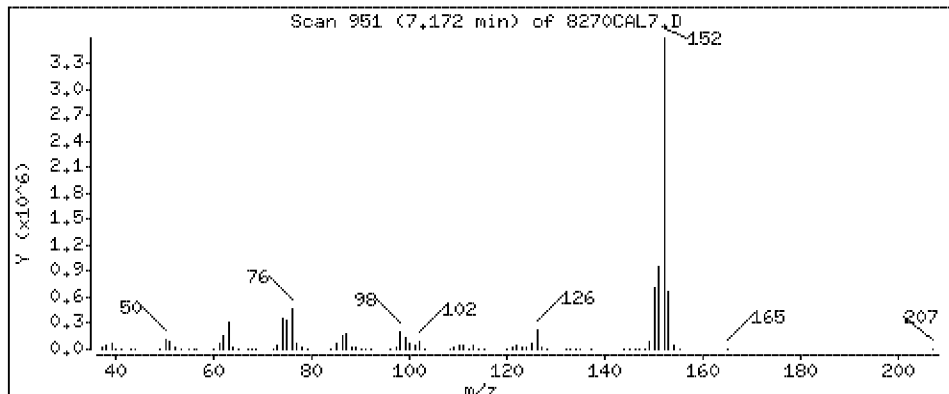
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

68 Acenaphthylene

Concentration: 98.1 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

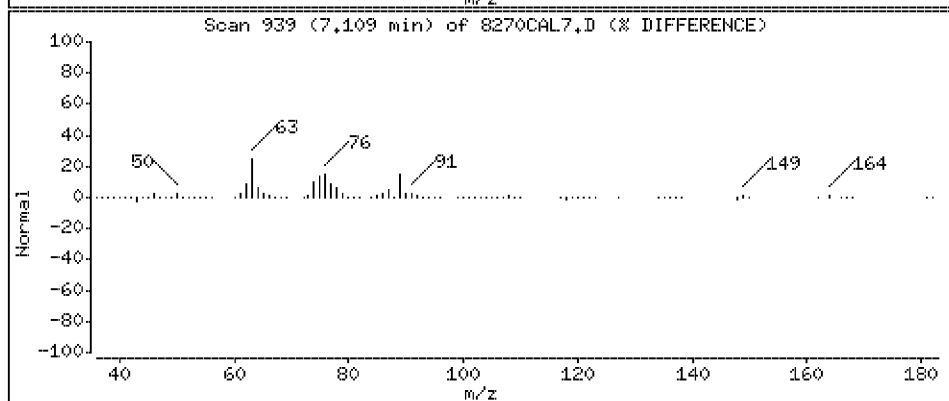
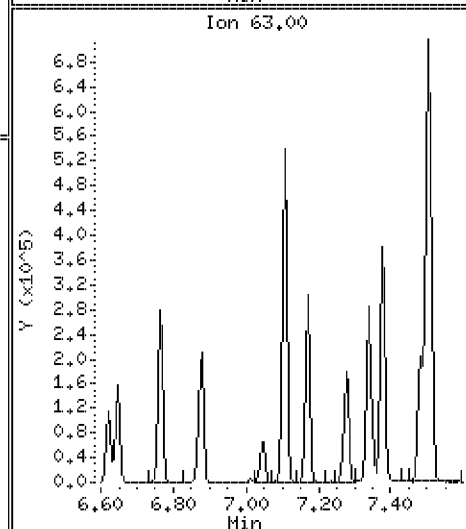
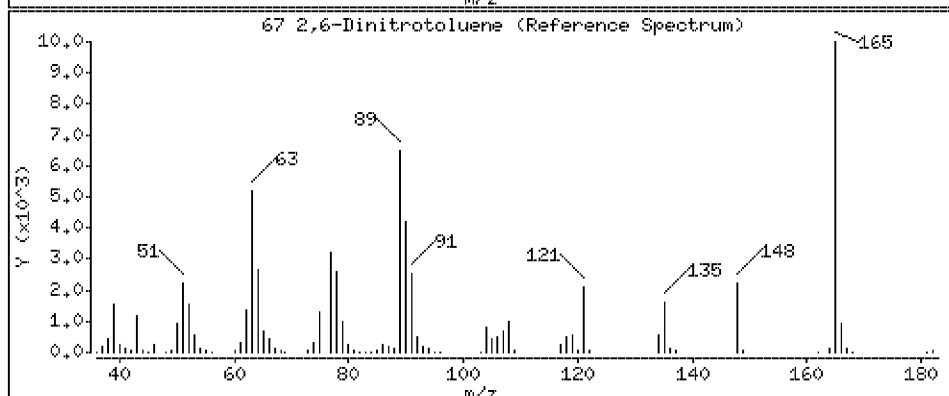
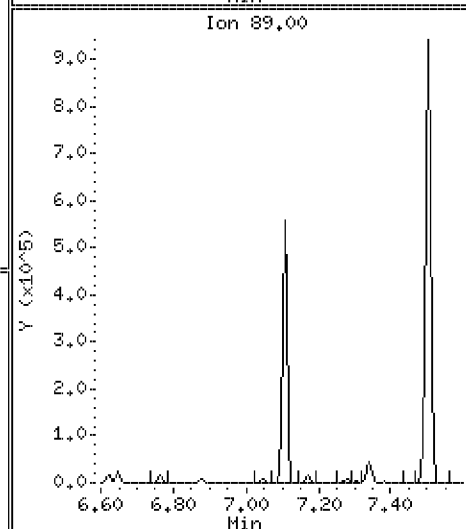
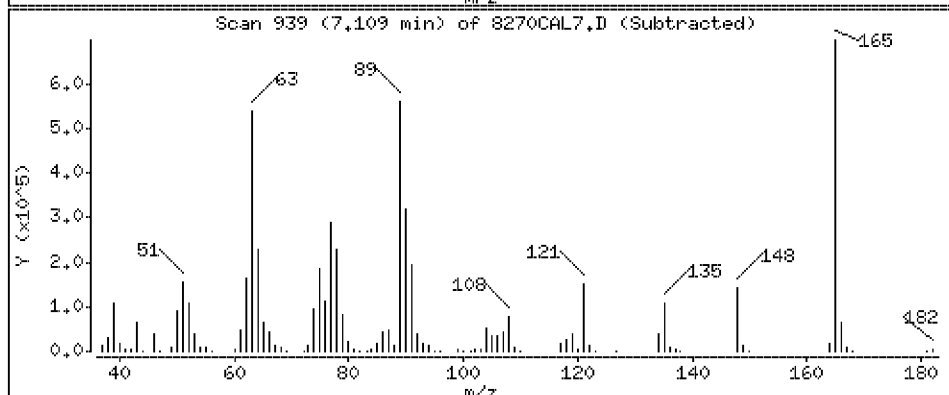
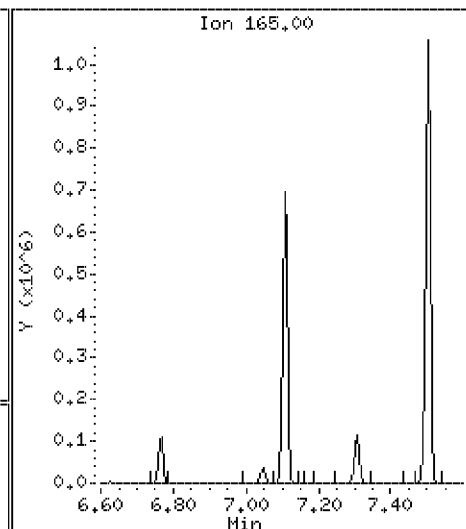
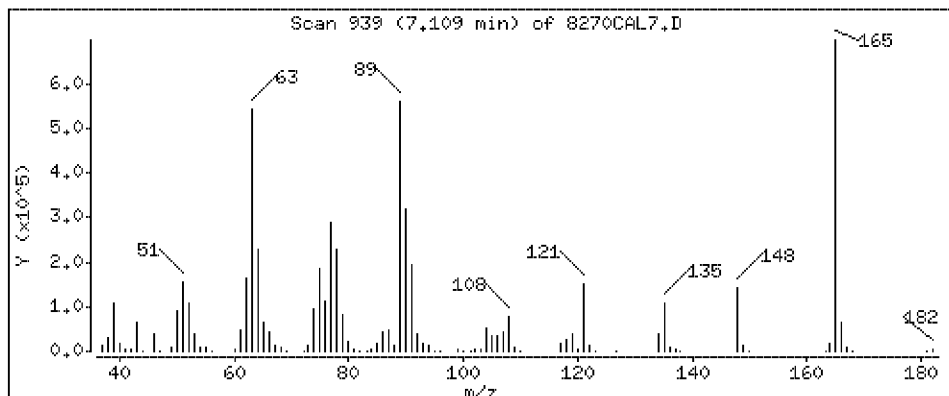
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

67 2,6-Dinitrotoluene

Concentration: 103 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

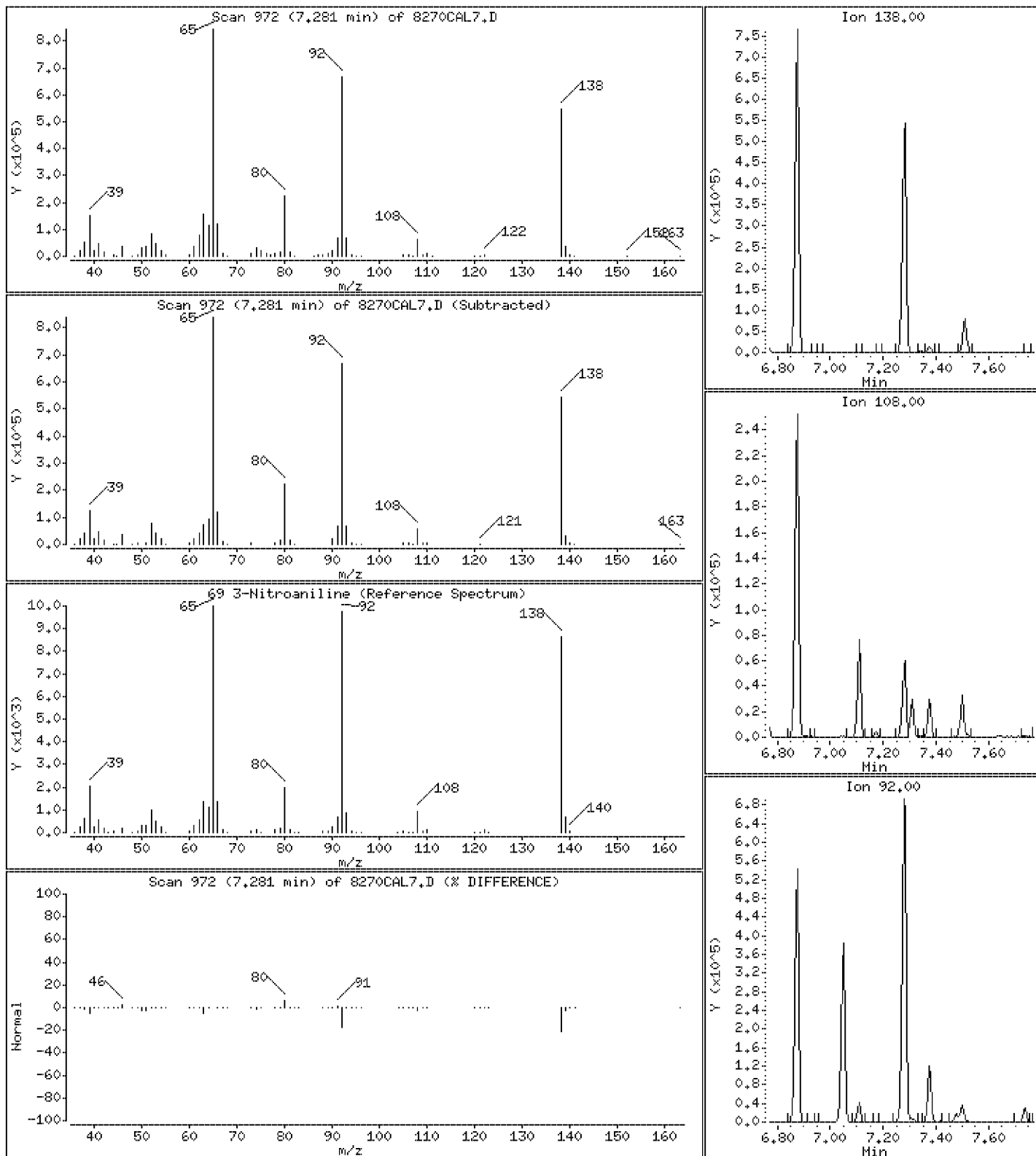
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

69 3-Nitroaniline

Concentration: 103 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

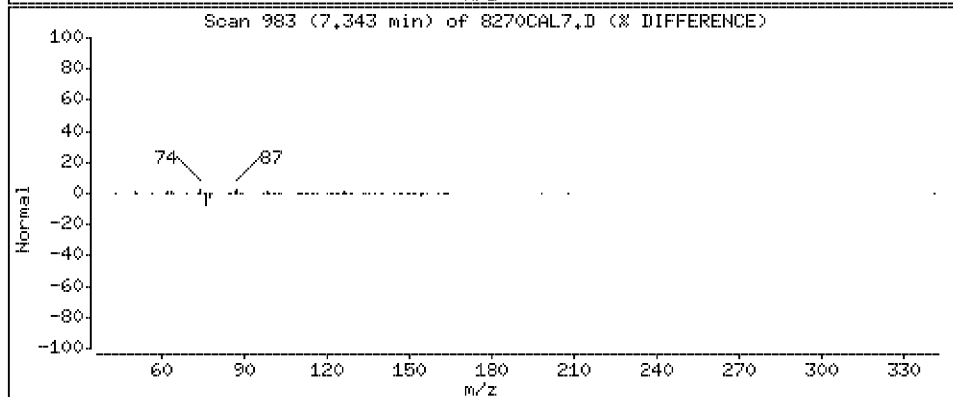
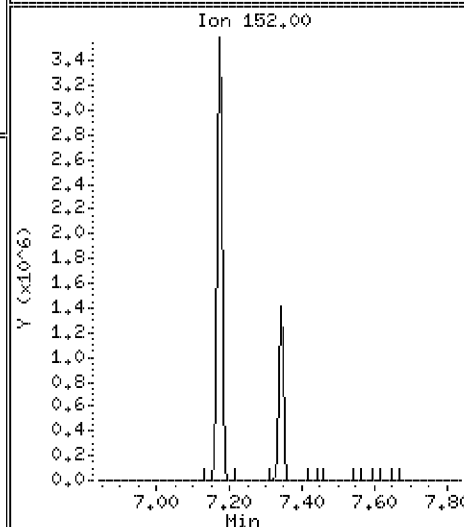
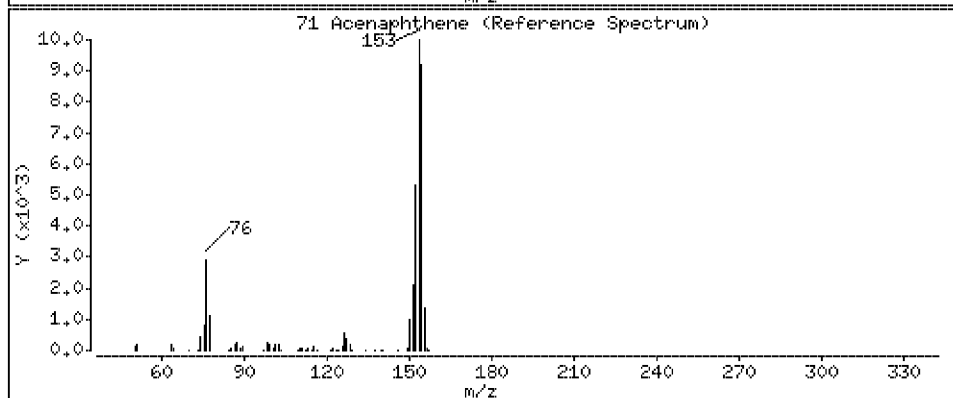
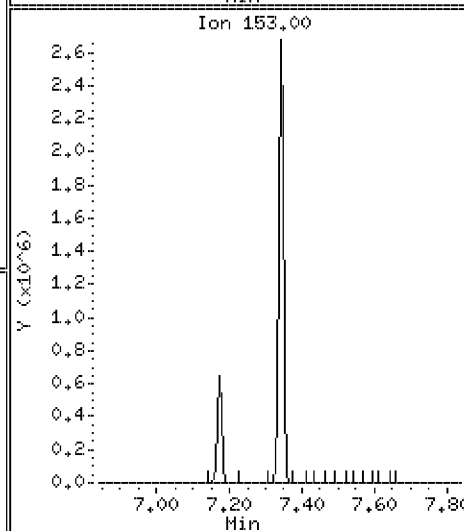
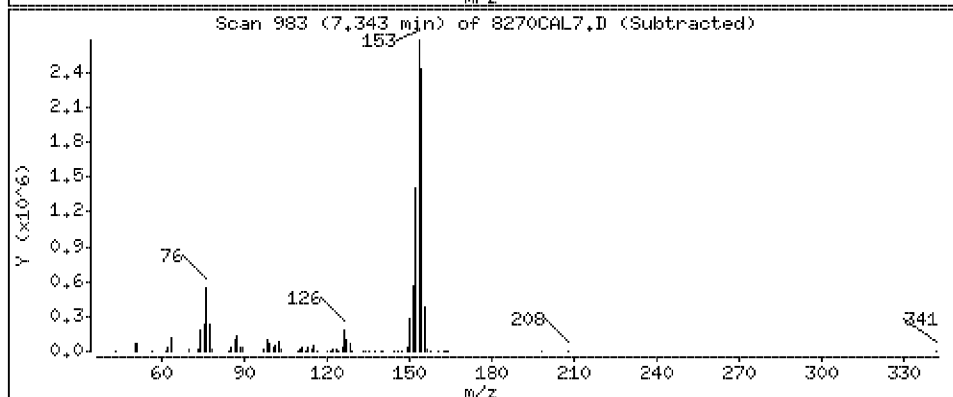
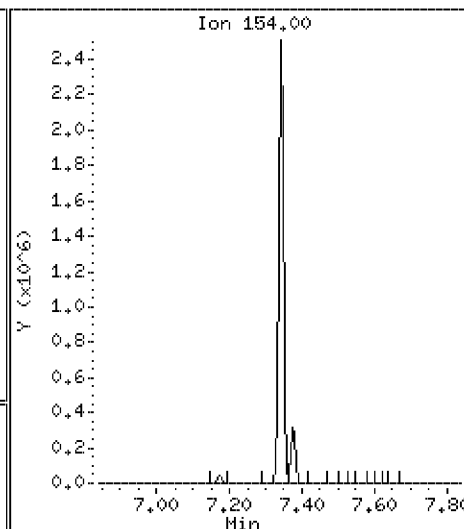
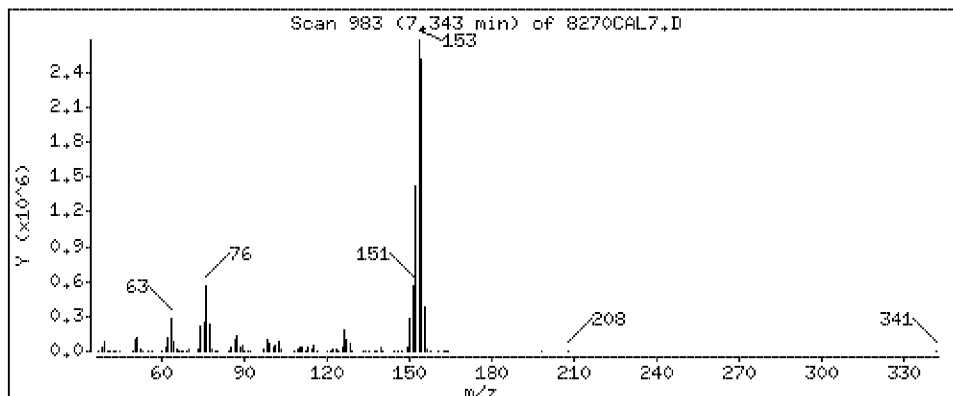
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

71 Acenaphthene

Concentration: 106 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

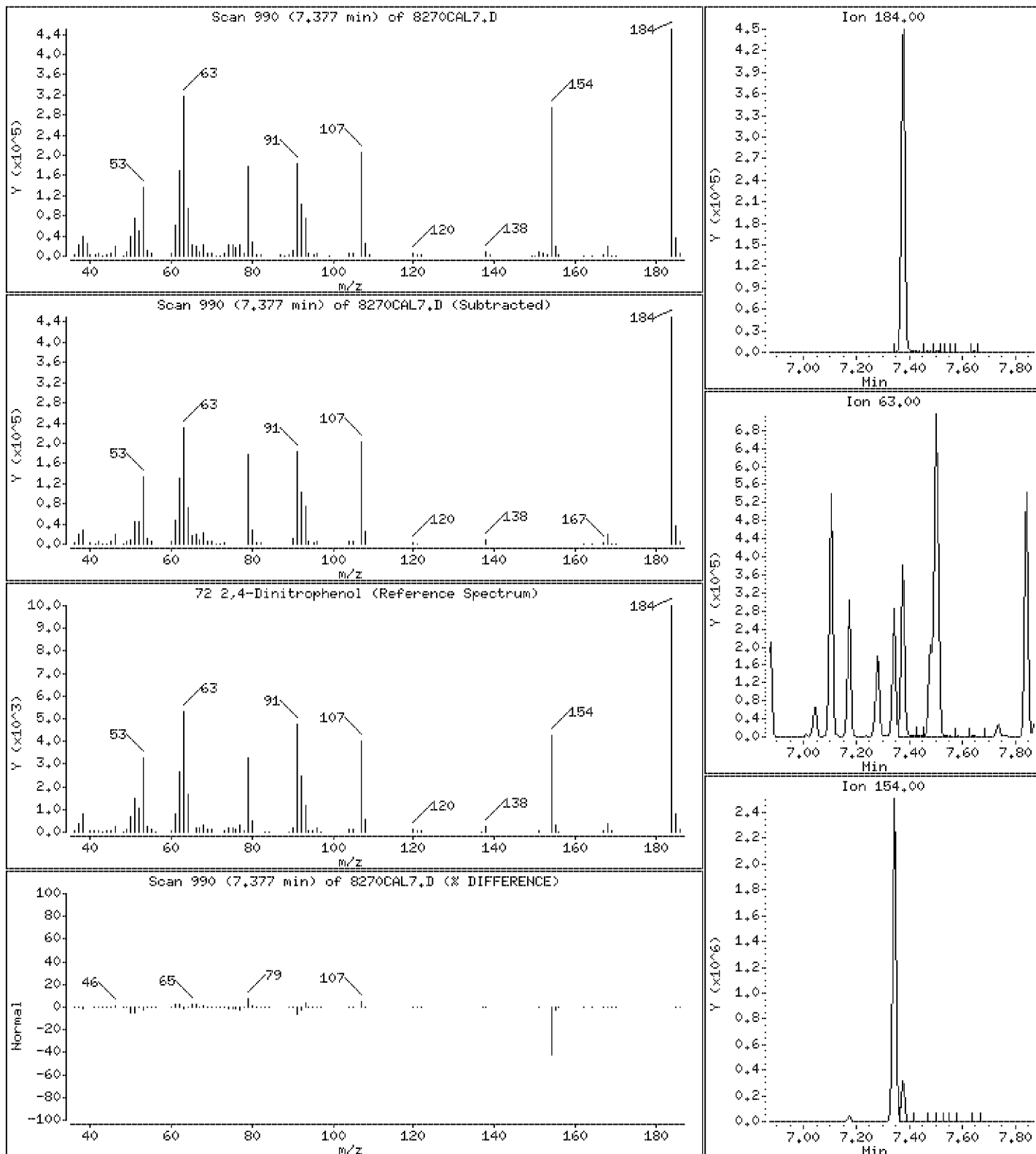
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

72 2,4-Dinitrophenol

Concentration: 100 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

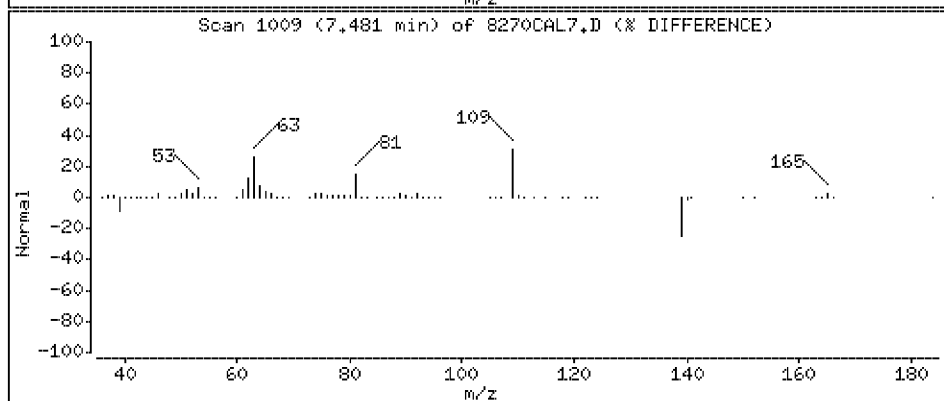
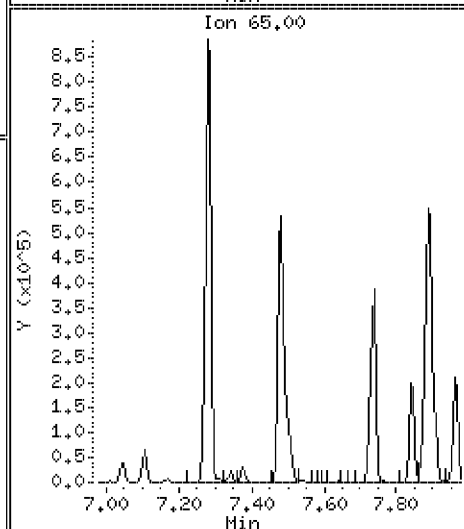
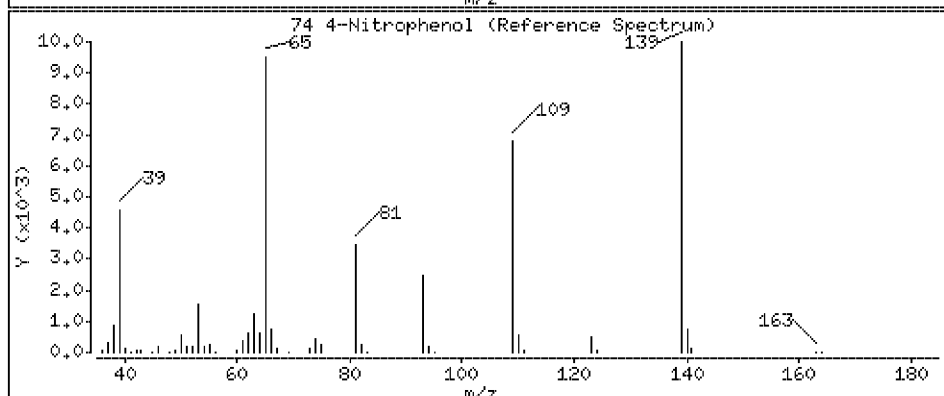
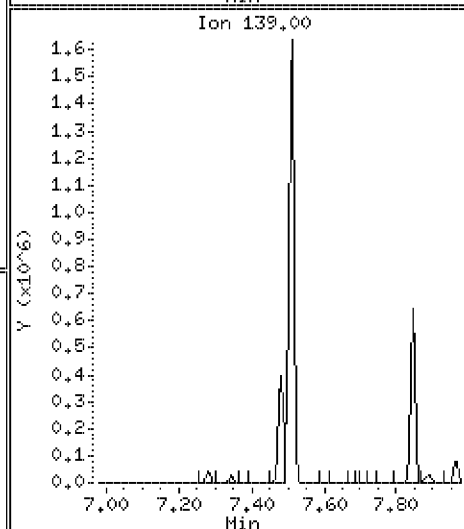
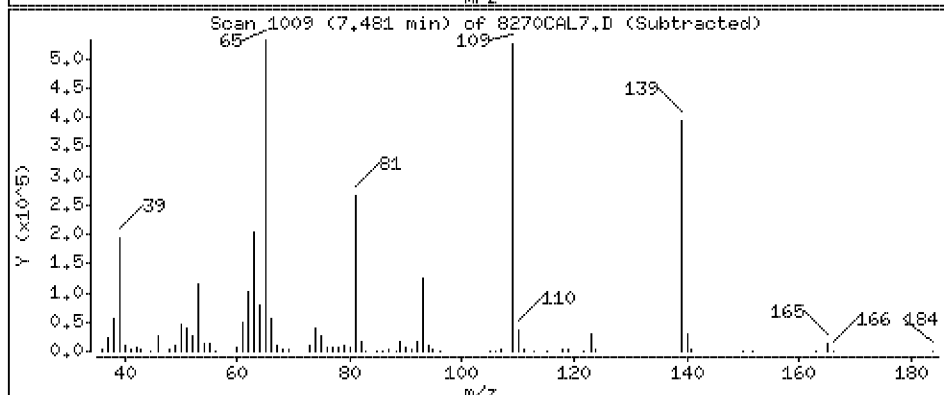
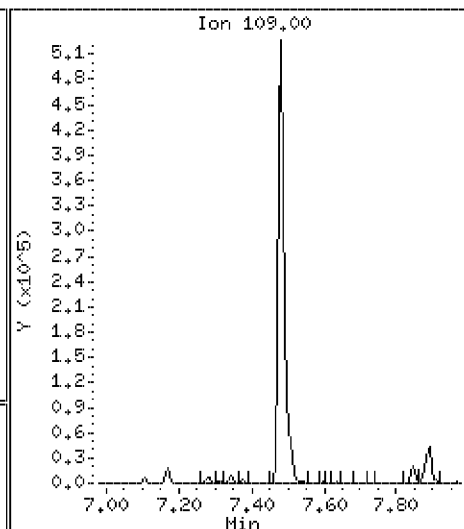
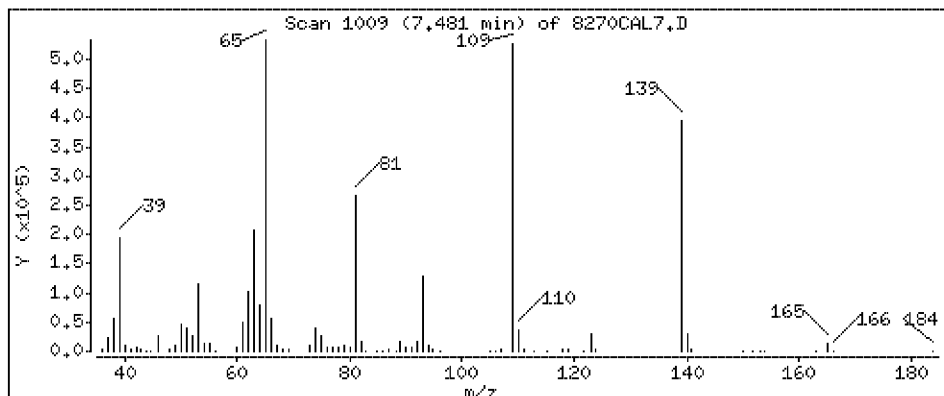
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

74 4-Nitrophenol

Concentration: 105 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

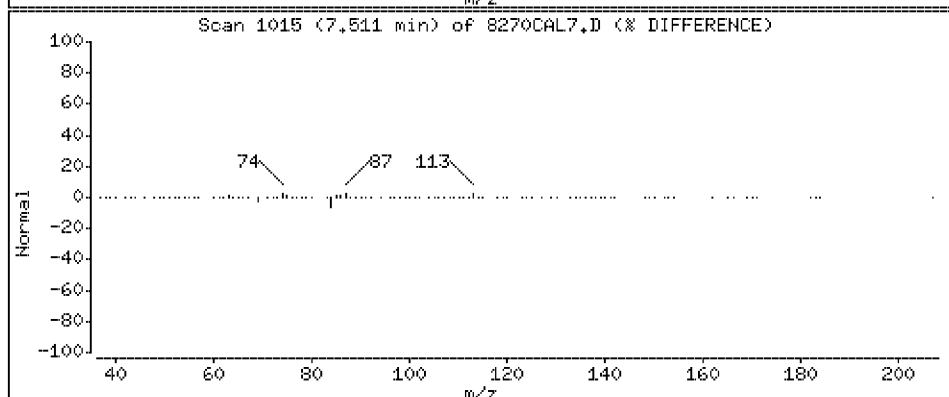
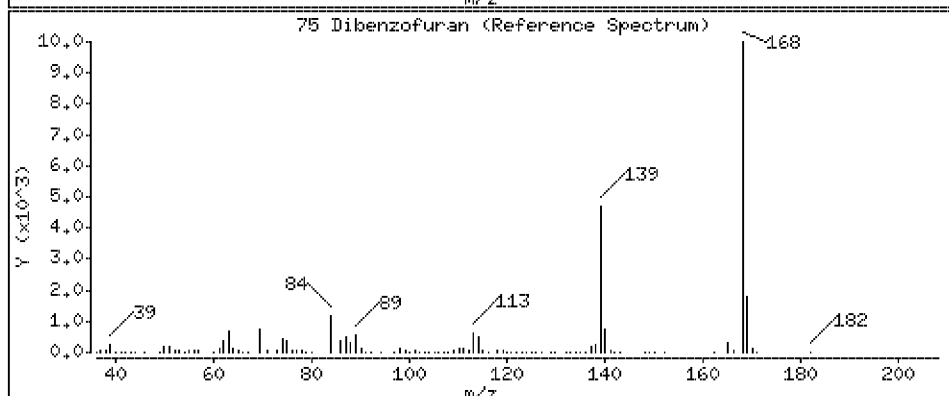
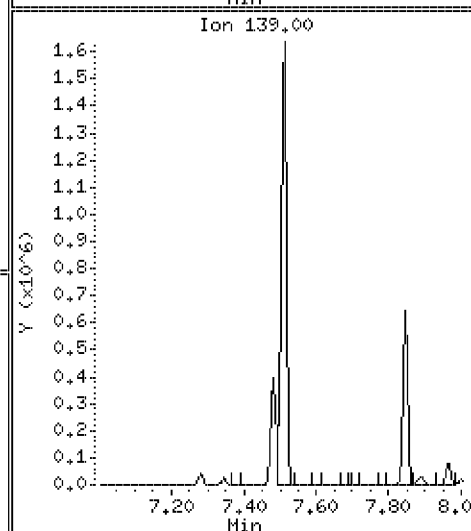
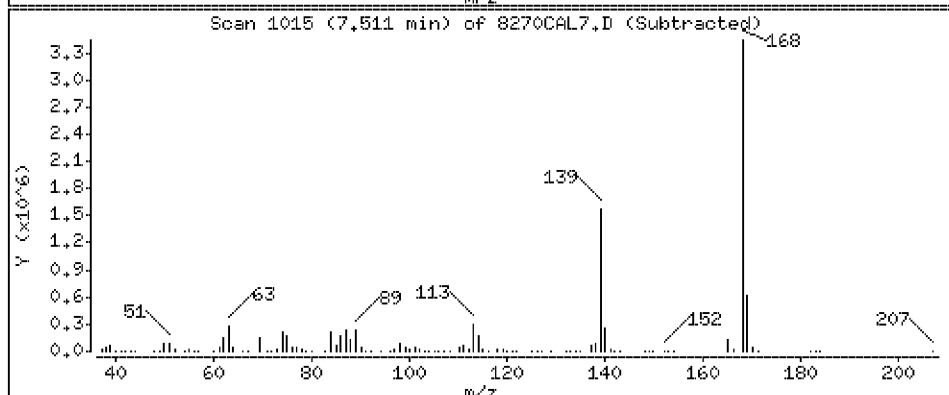
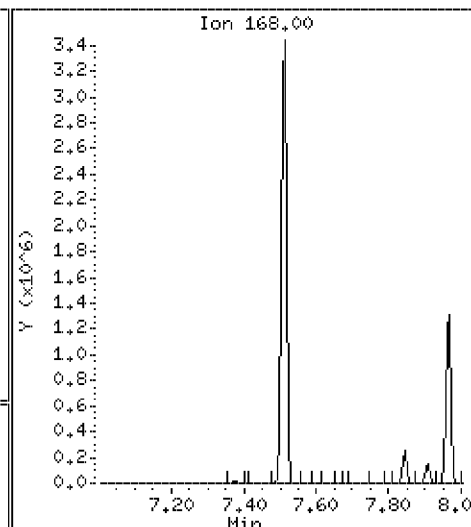
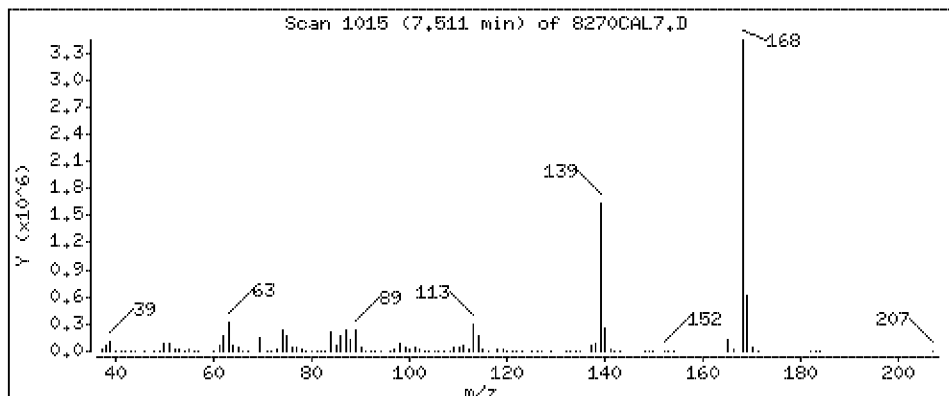
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

75 Dibenzofuran

Concentration: 100 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

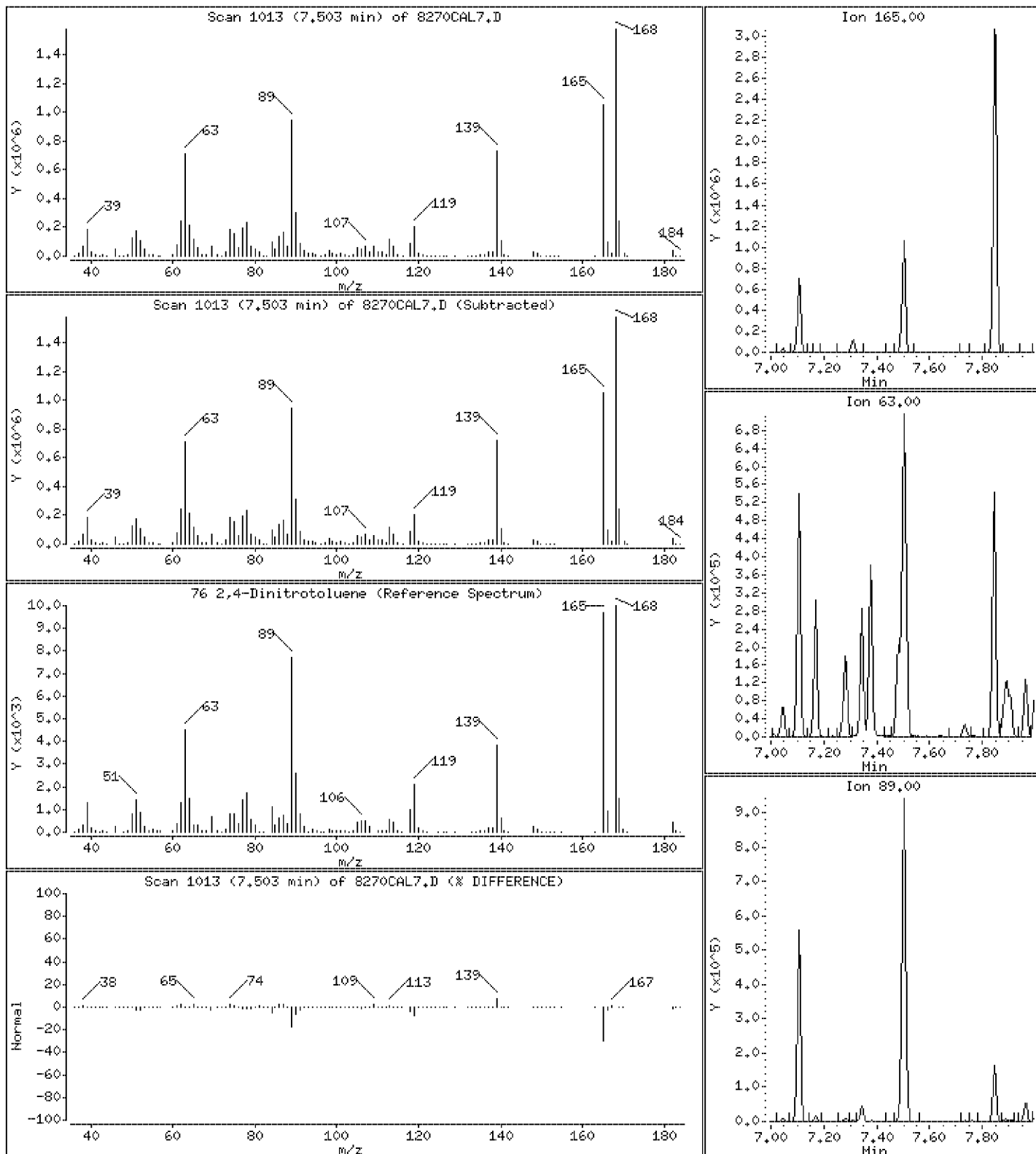
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

76 2,4-Dinitrotoluene

Concentration: 109 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

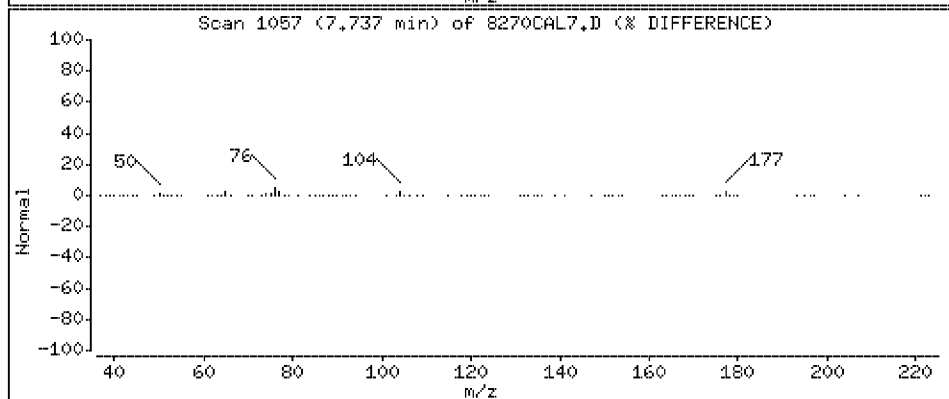
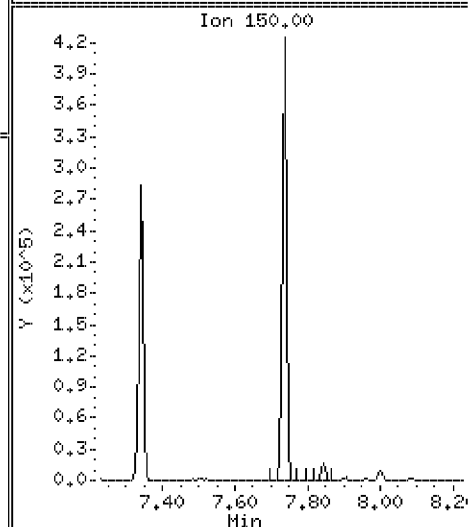
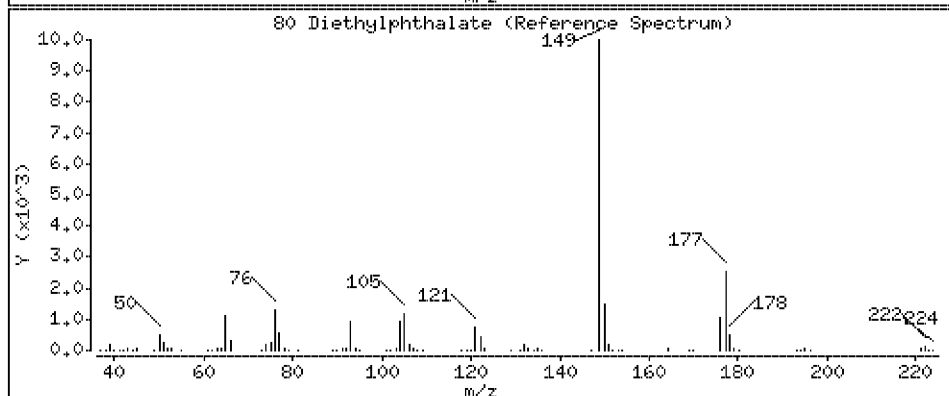
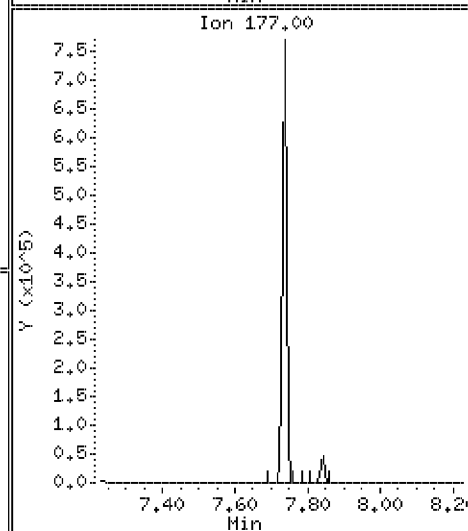
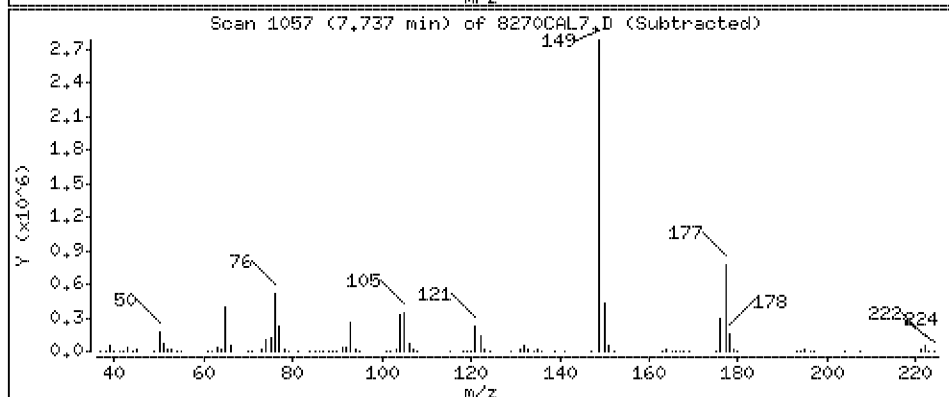
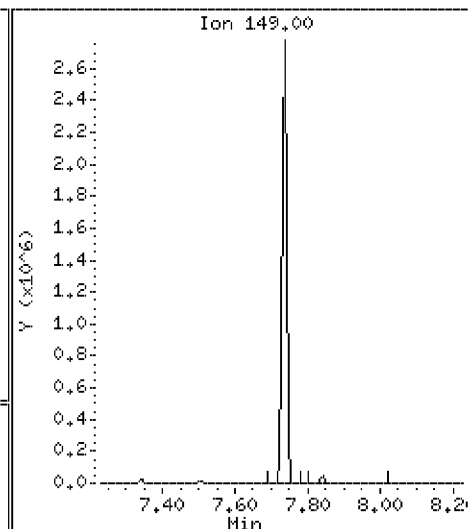
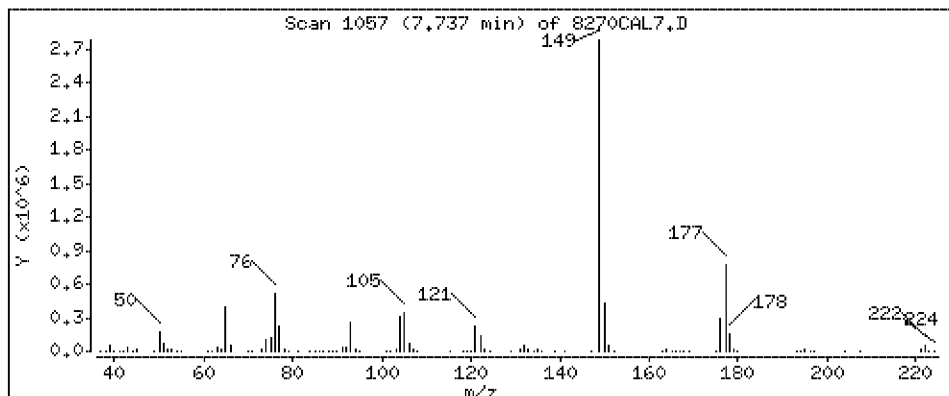
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

80 Diethylphthalate

Concentration: 98.2 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

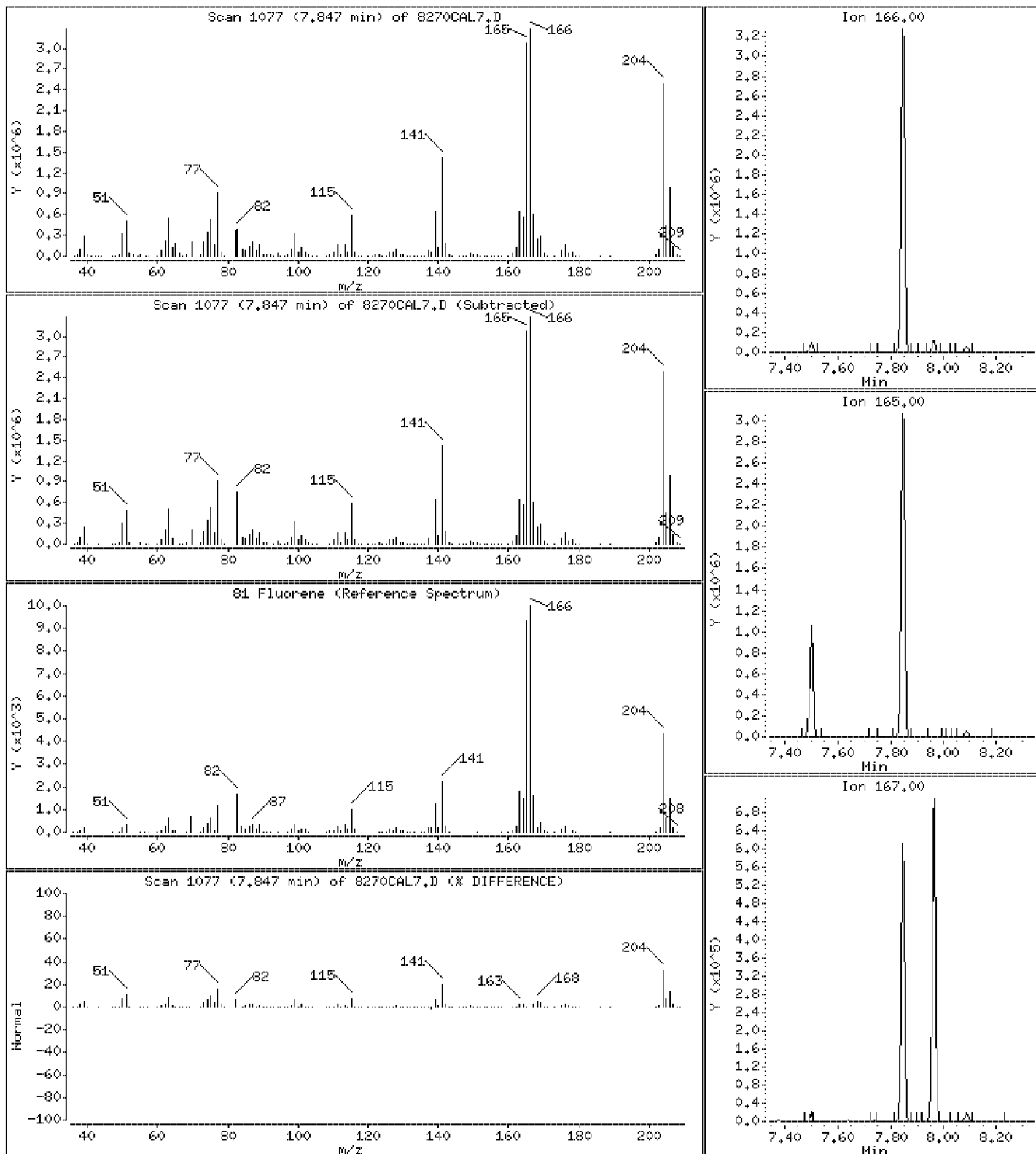
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

81 Fluorene

Concentration: 106 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

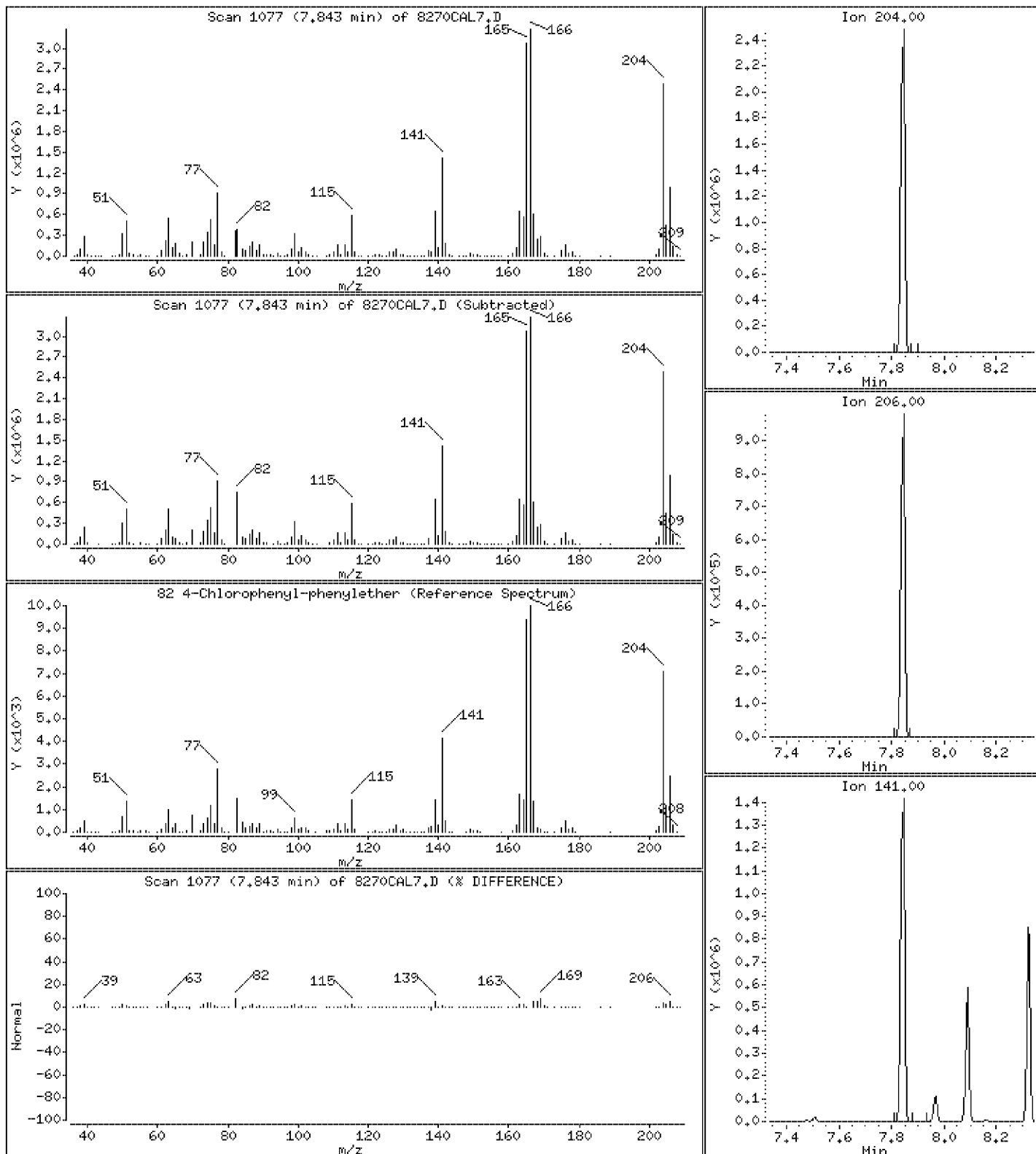
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

82 4-Chlorophenyl-phenylether

Concentration: 112 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

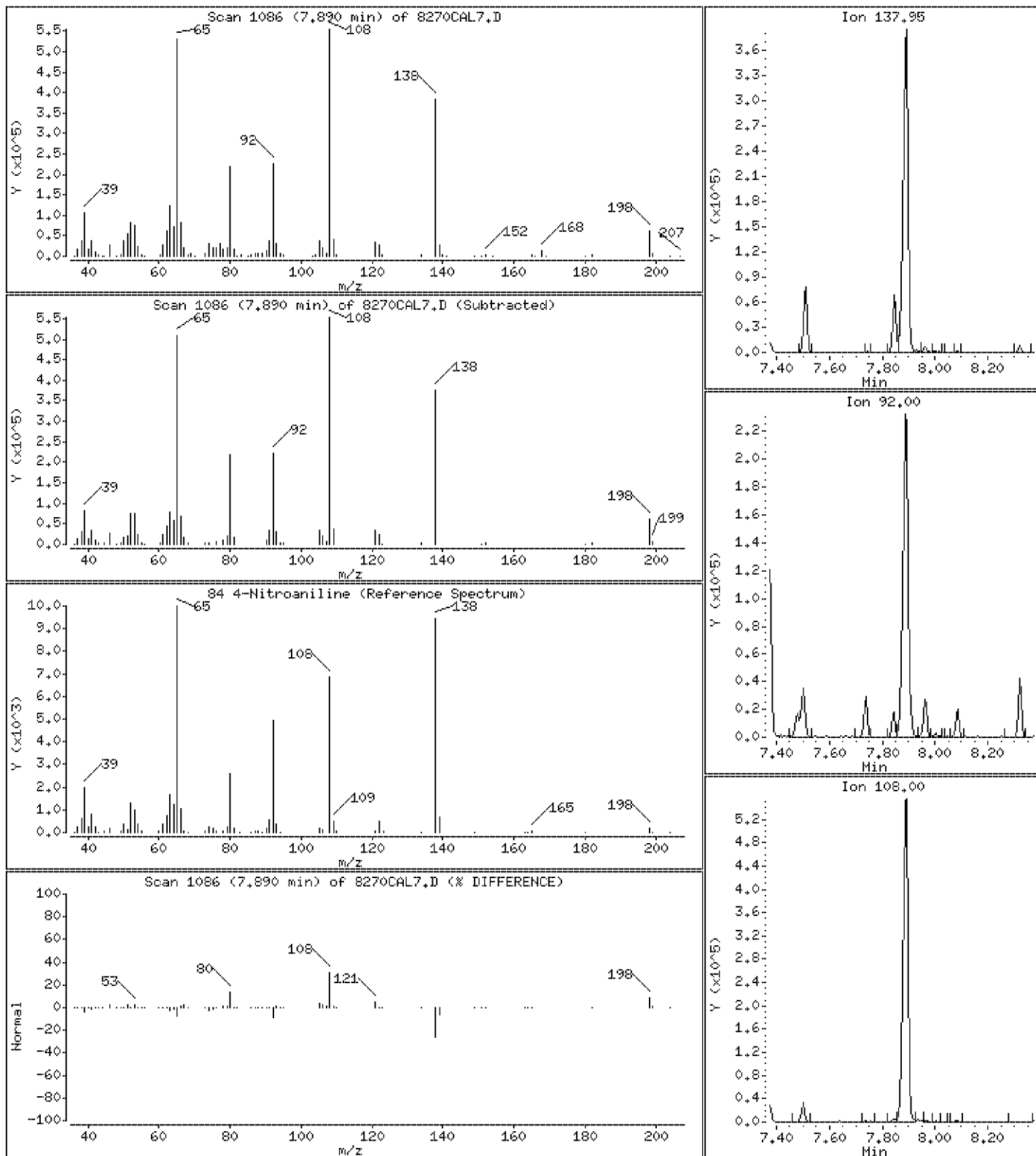
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

84 4-Nitroaniline

Concentration: 104 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

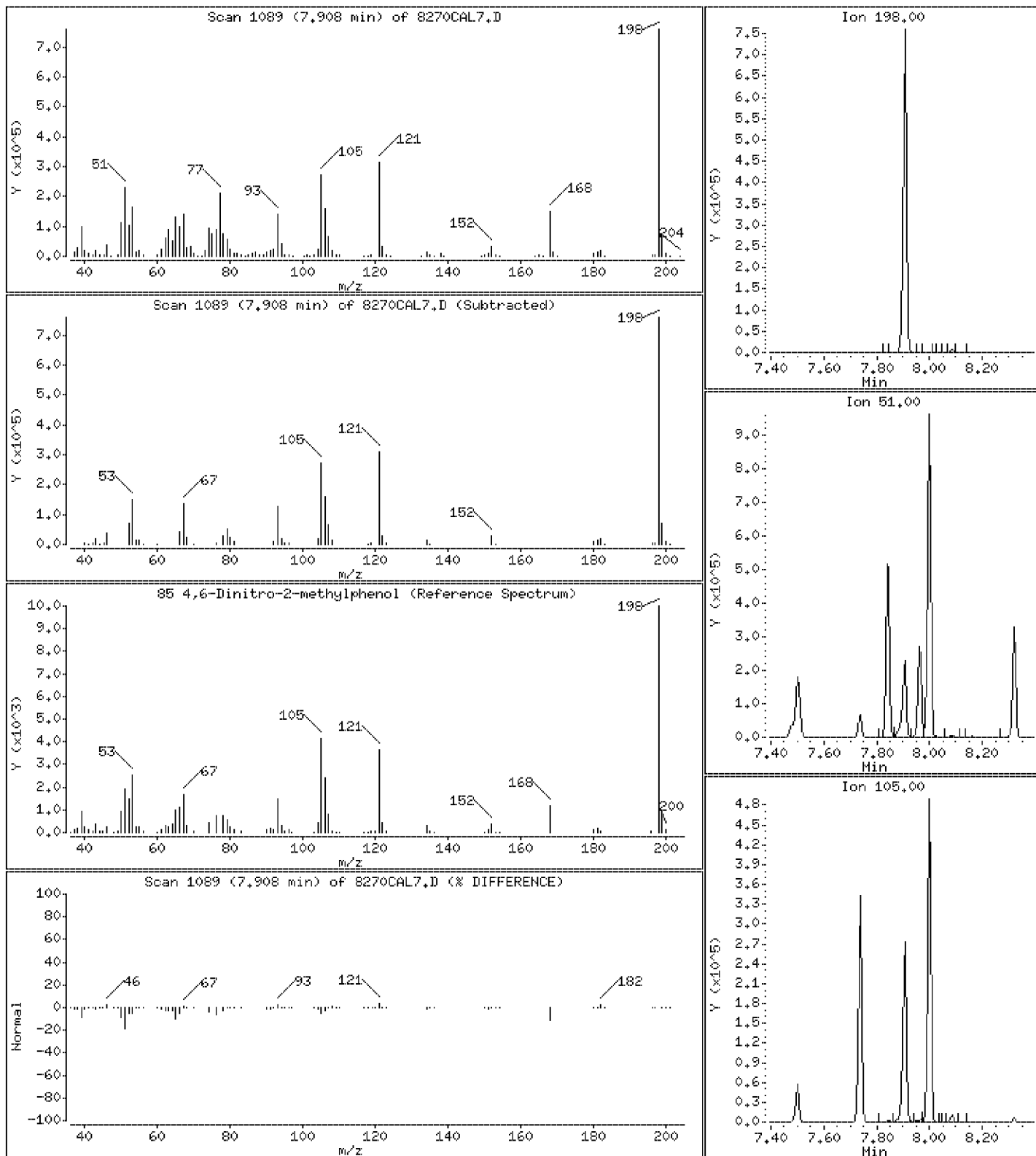
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

85 4,6-Dinitro-2-methylphenol

Concentration: 102 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

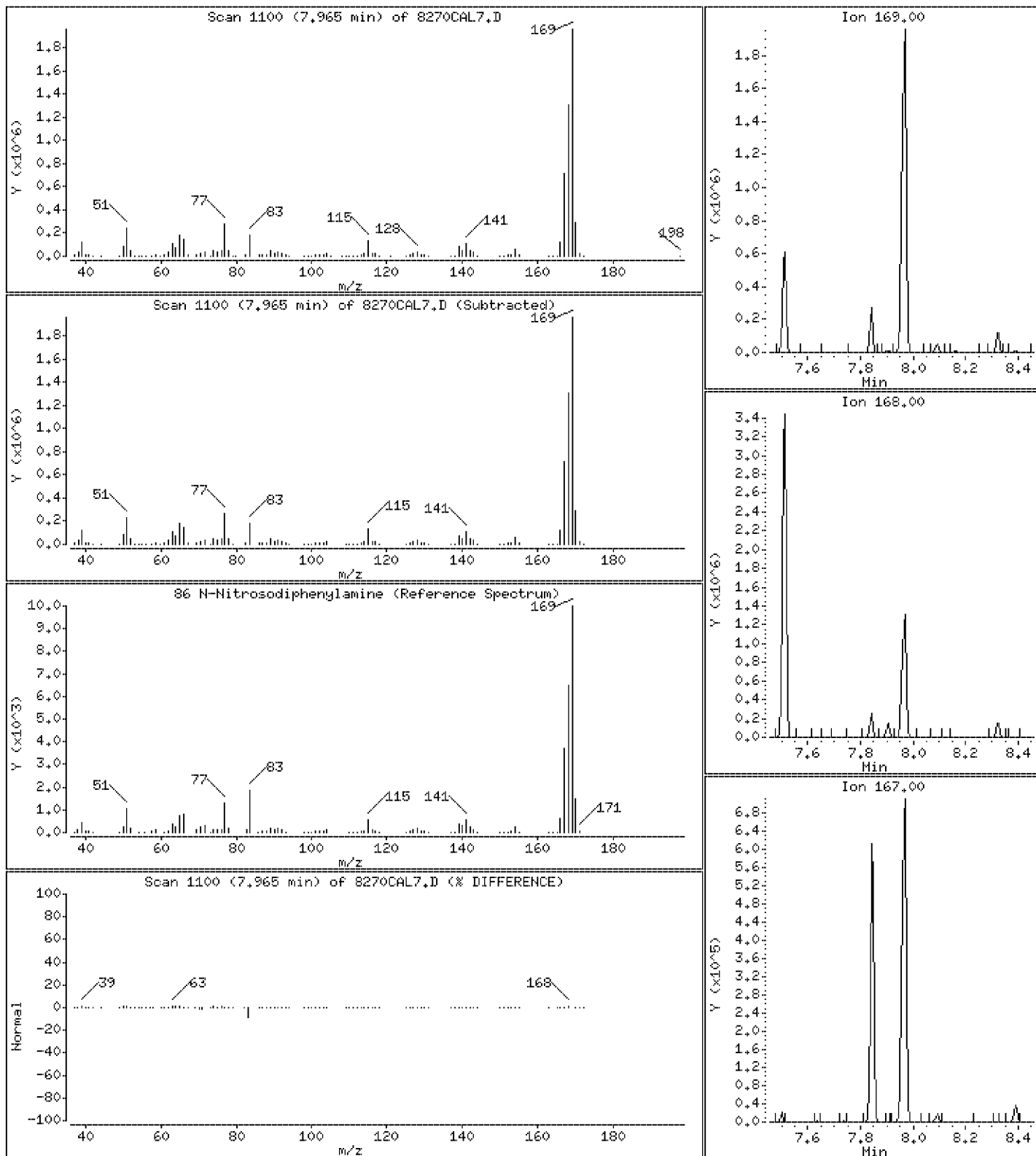
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

86 N-Nitrosodiphenylamine

Concentration: 104 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

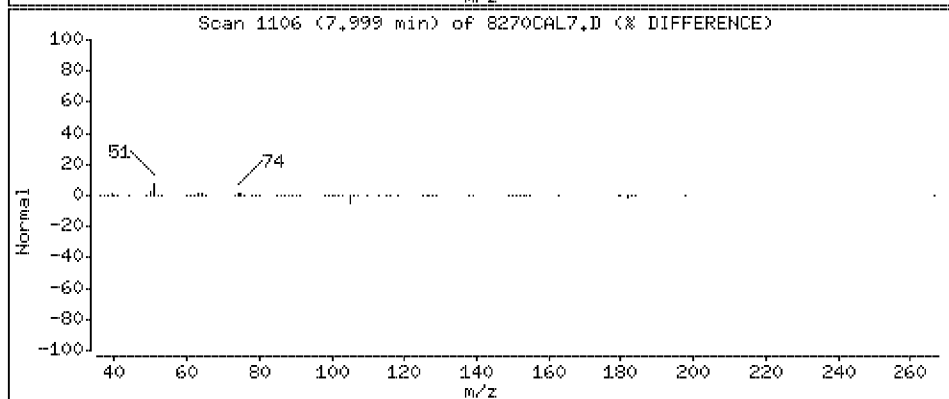
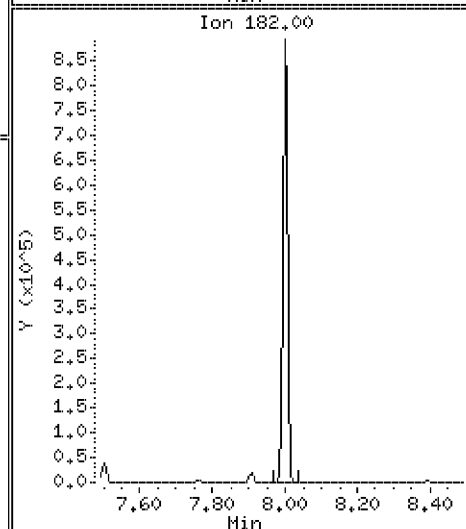
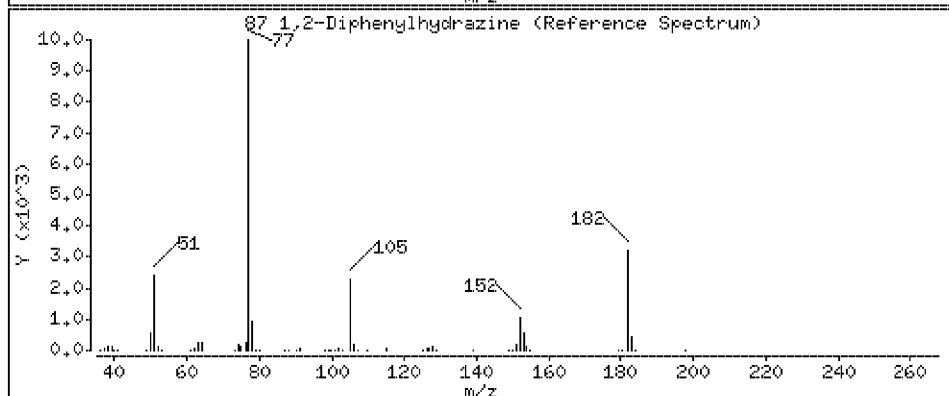
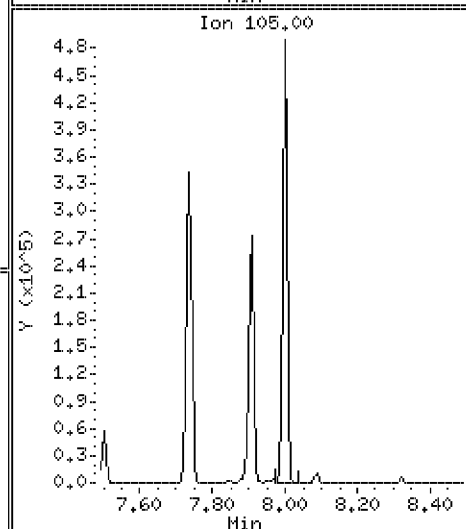
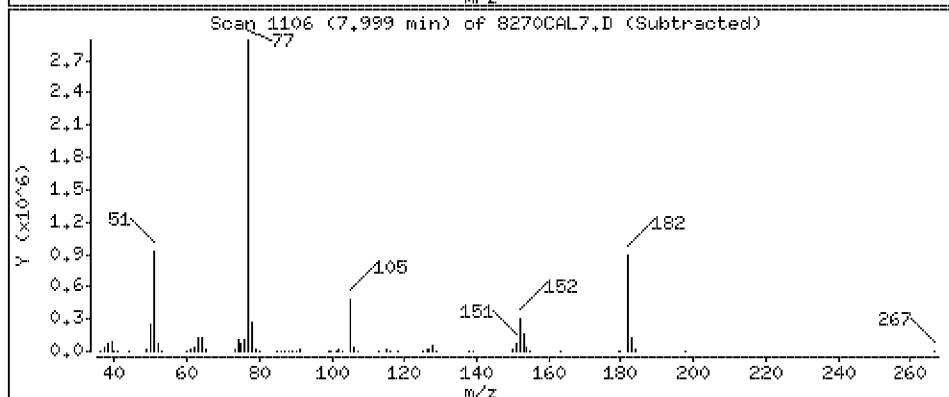
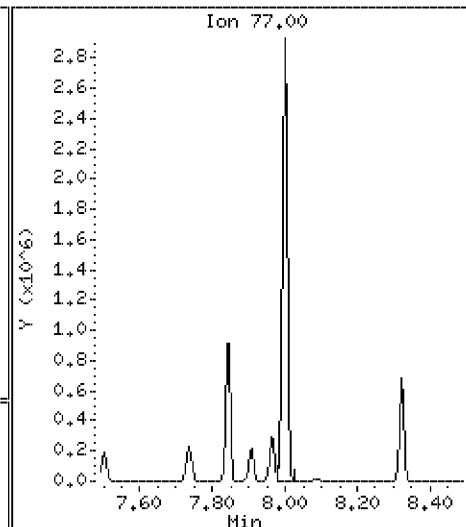
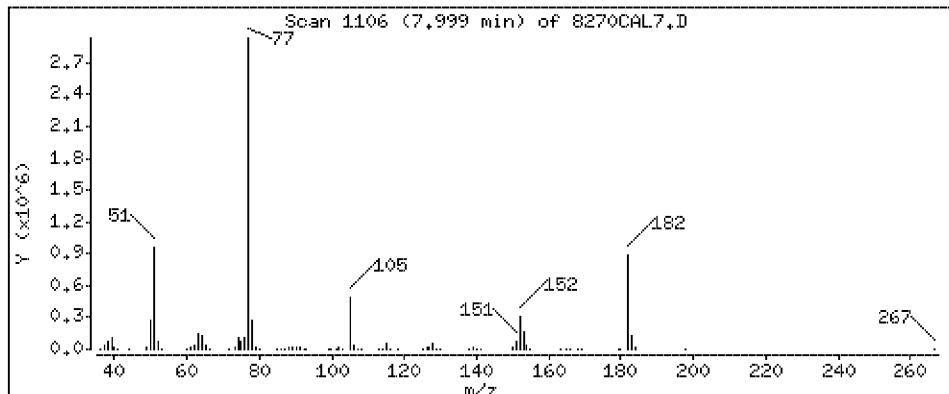
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

87 1,2-Diphenylhydrazine

Concentration: 95.6 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

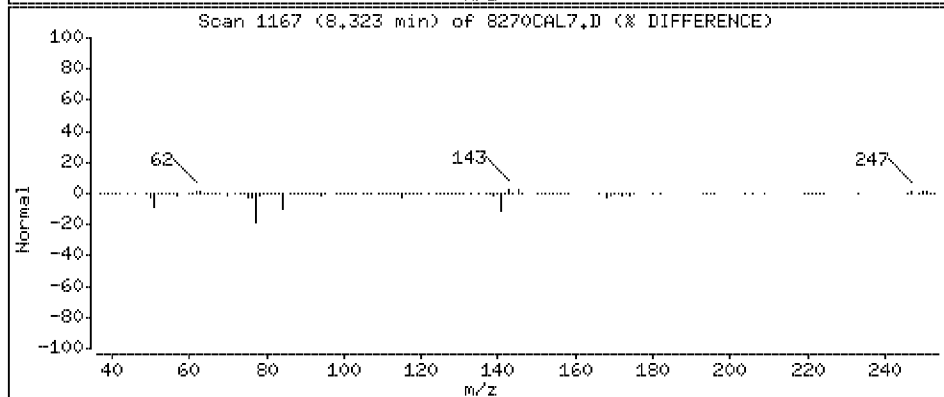
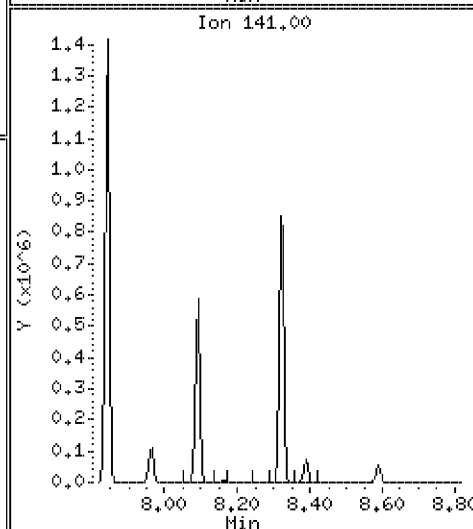
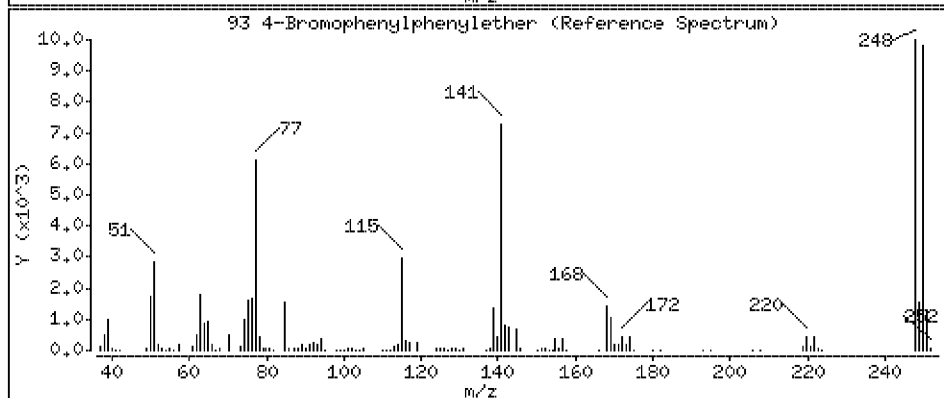
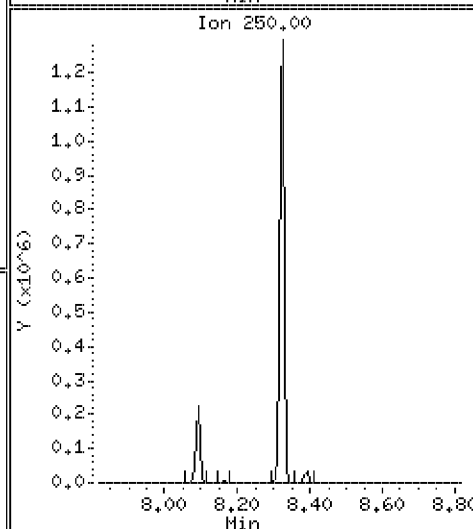
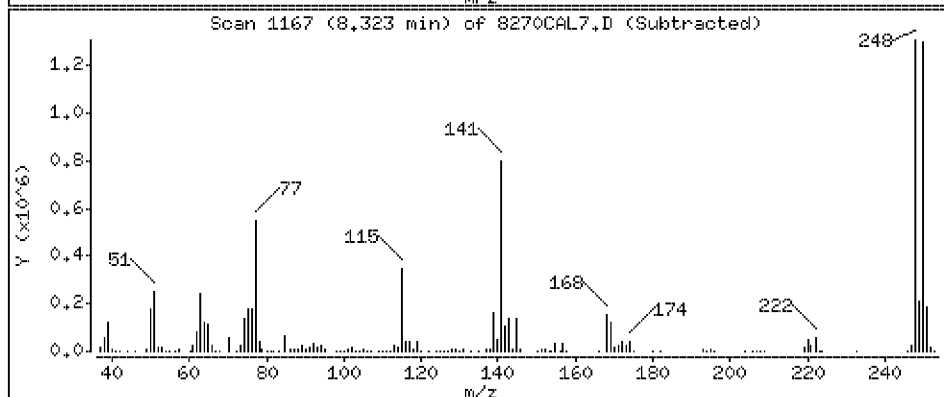
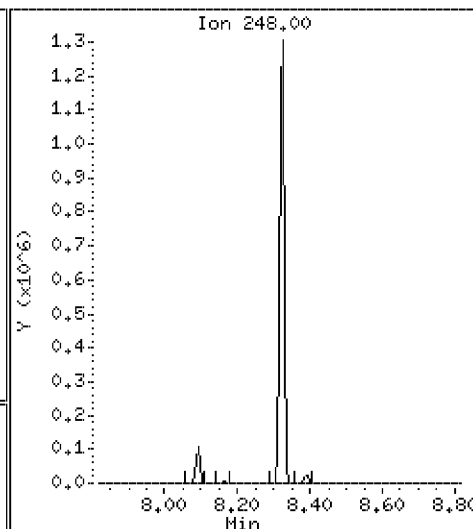
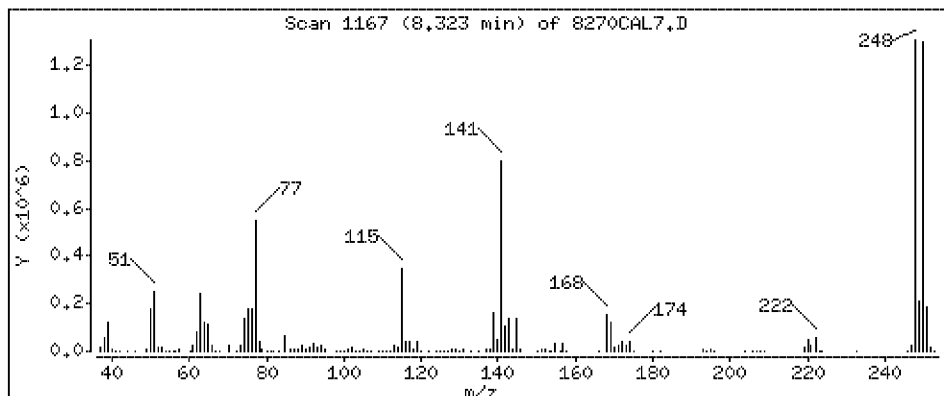
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

93 4-Bromophenylphenylether

Concentration: 108 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

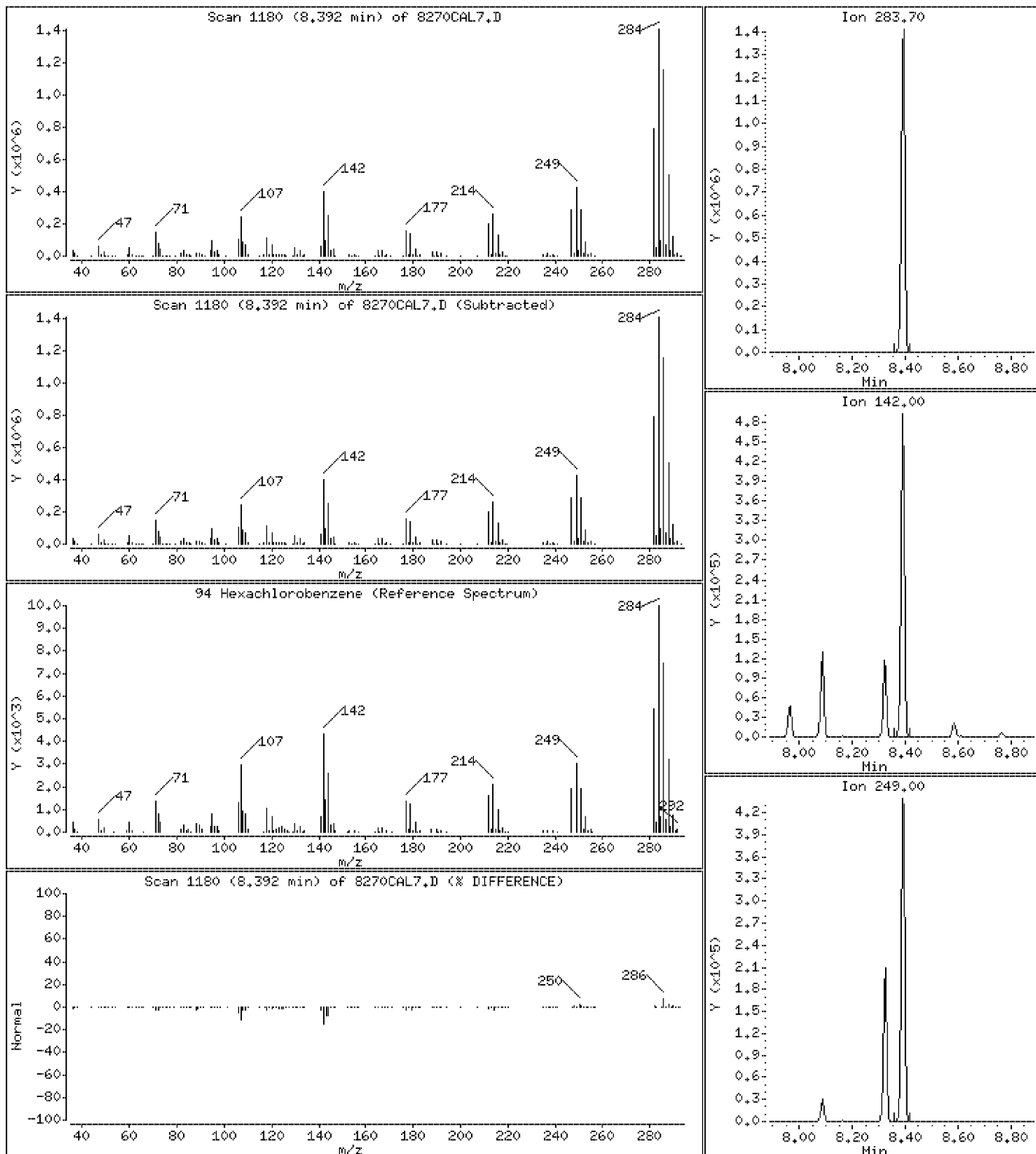
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

94 Hexachlorobenzene

Concentration: 110 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

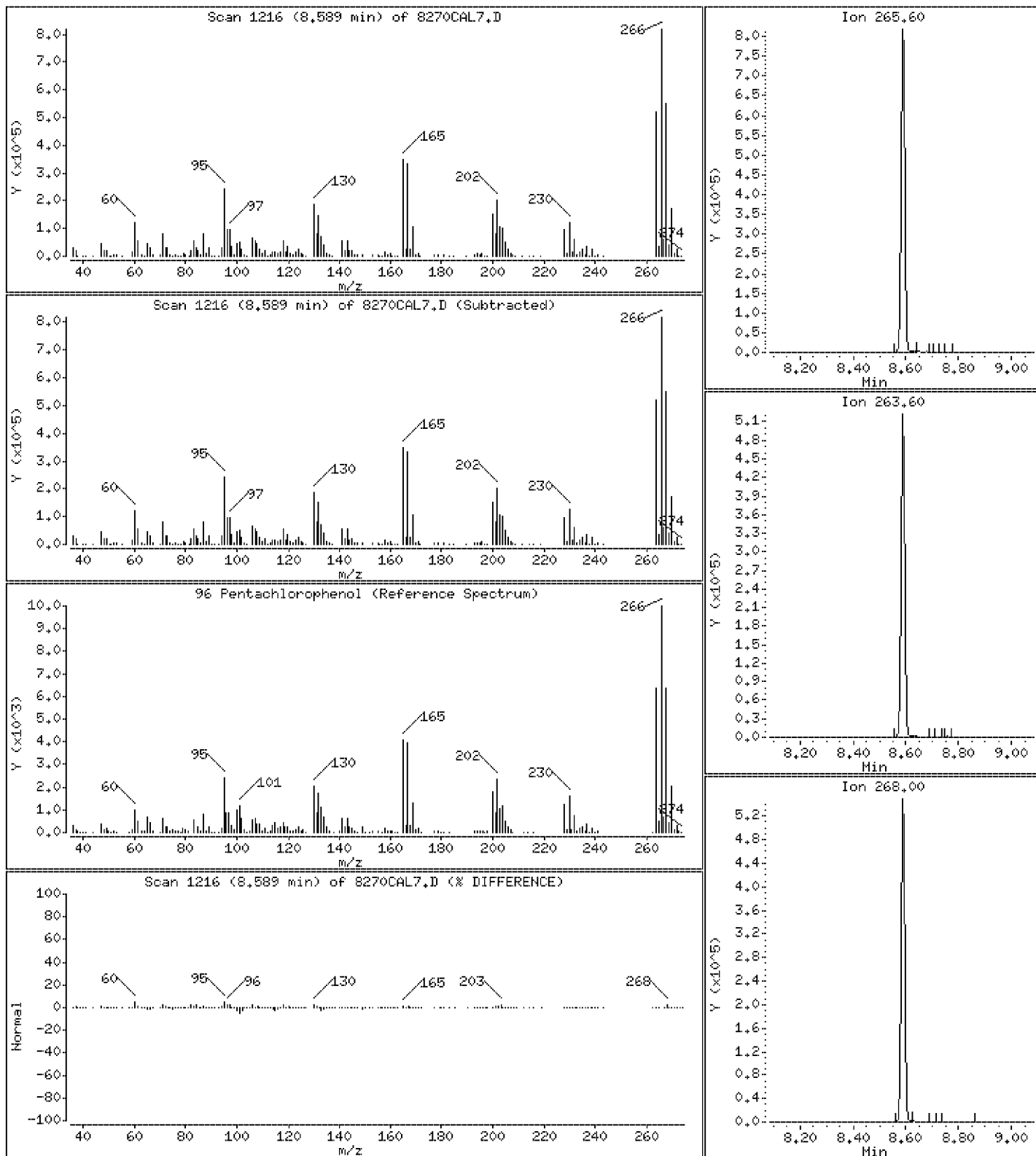
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

96 Pentachlorophenol

Concentration: 112 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

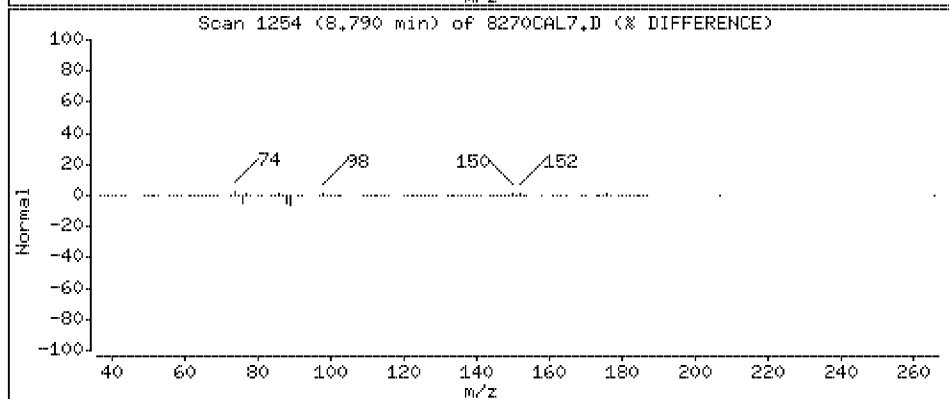
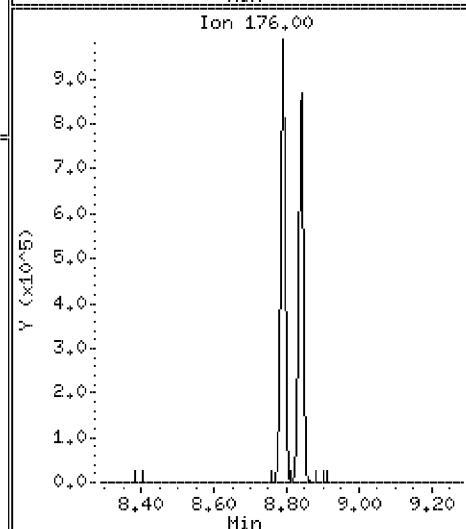
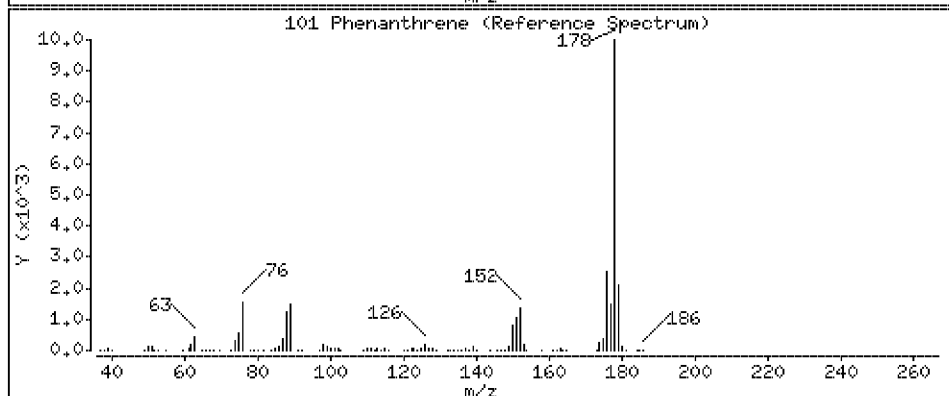
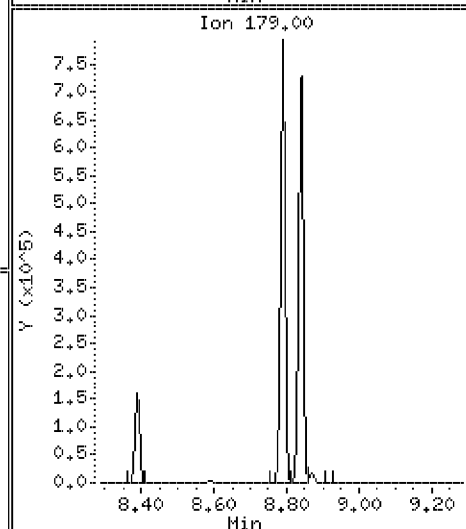
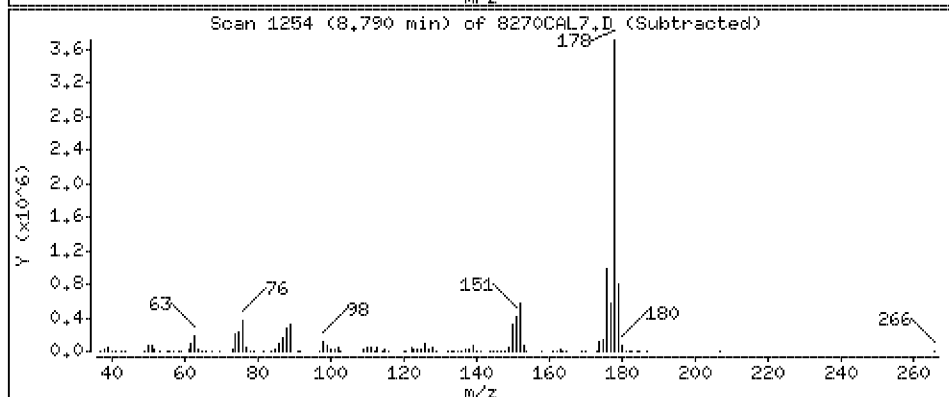
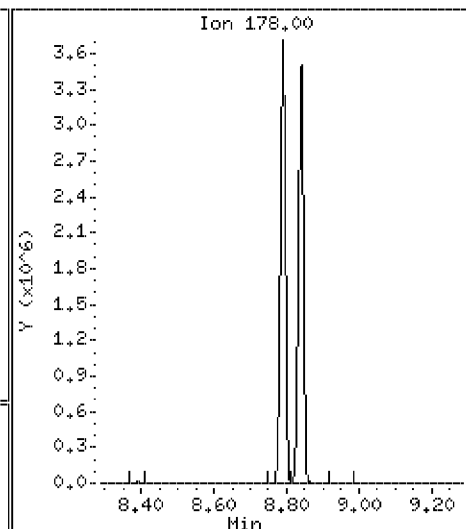
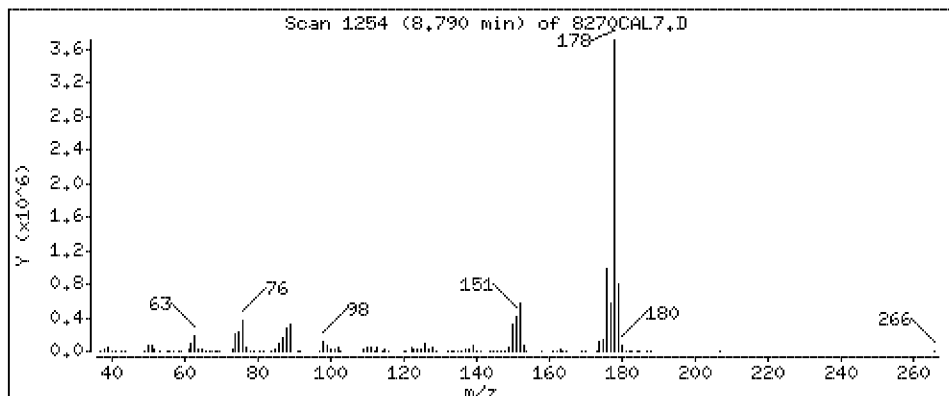
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

101 Phenanthrene

Concentration: 96.8 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

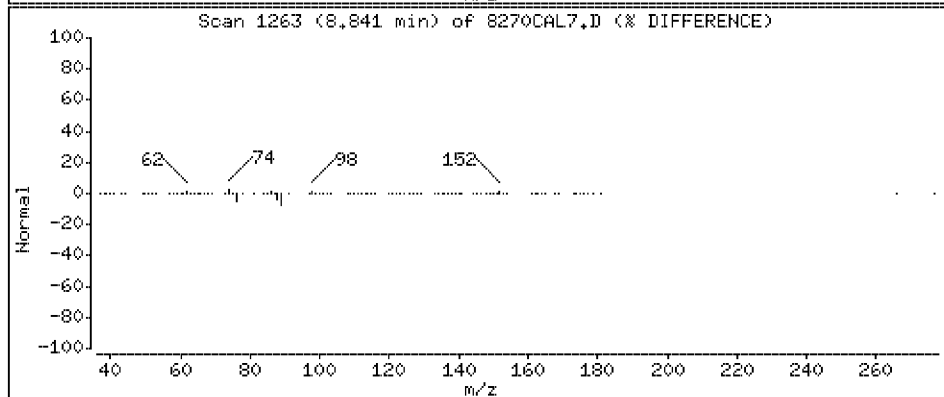
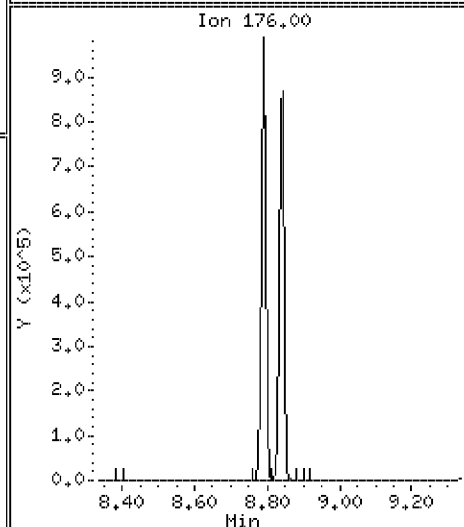
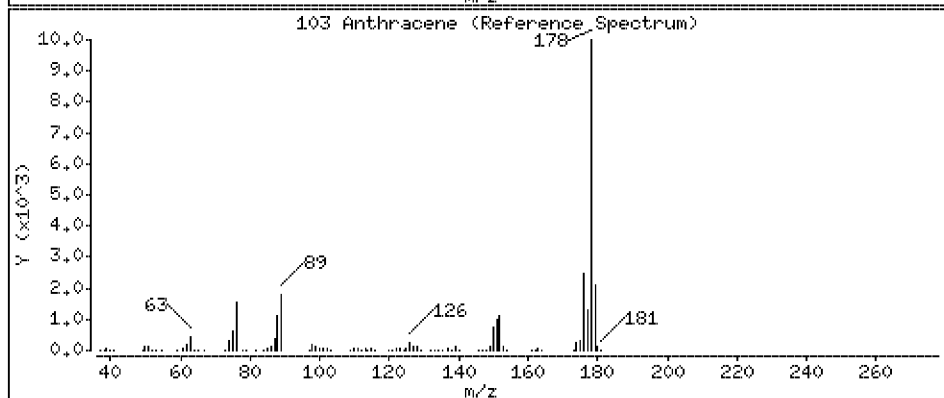
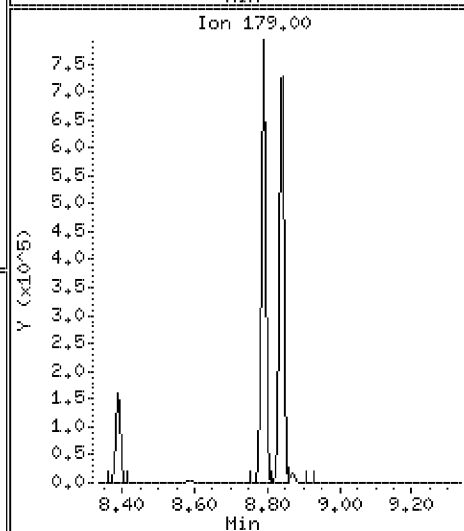
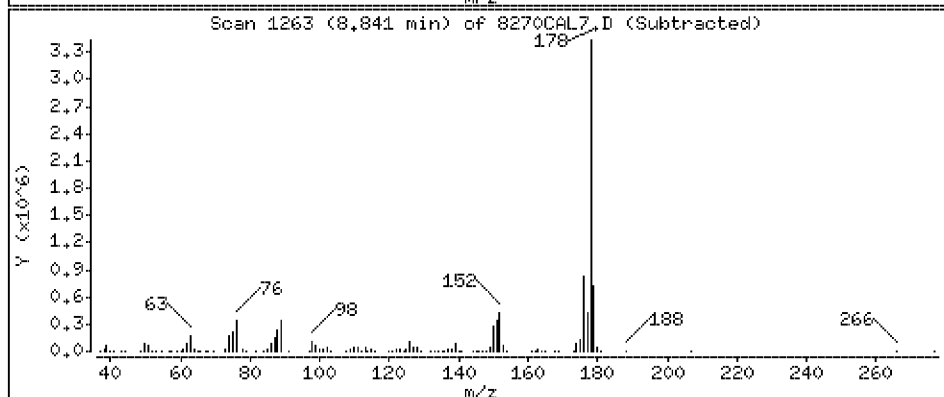
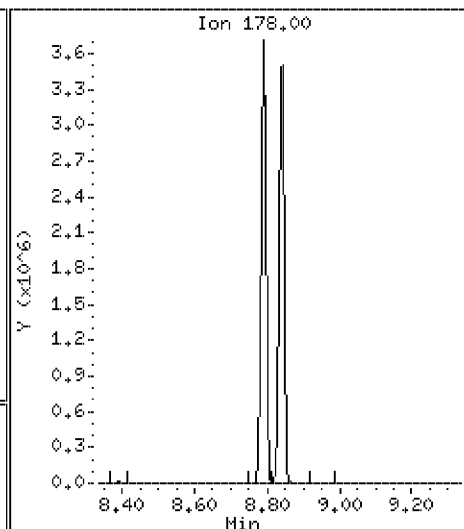
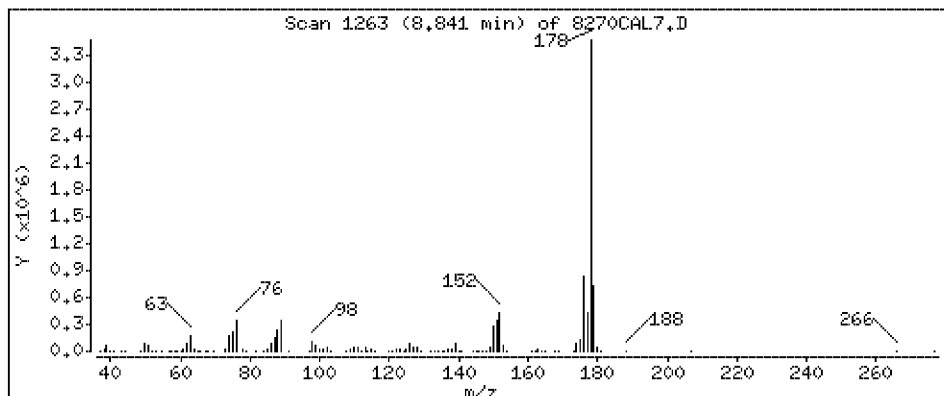
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

103 Anthracene

Concentration: 96.6 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

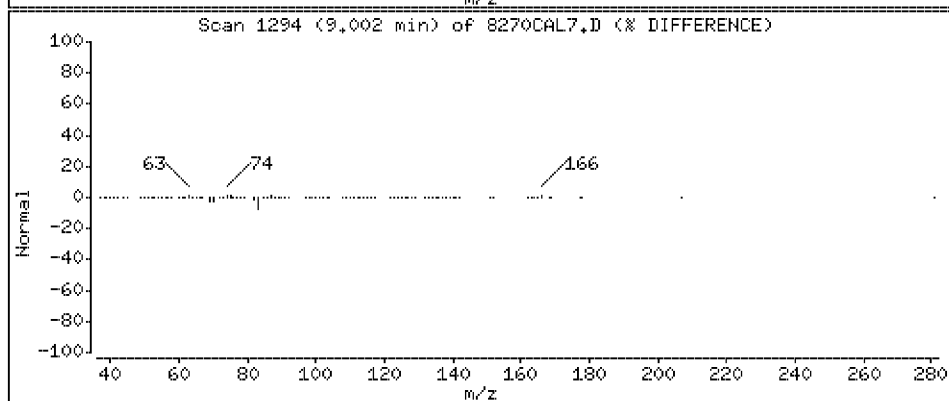
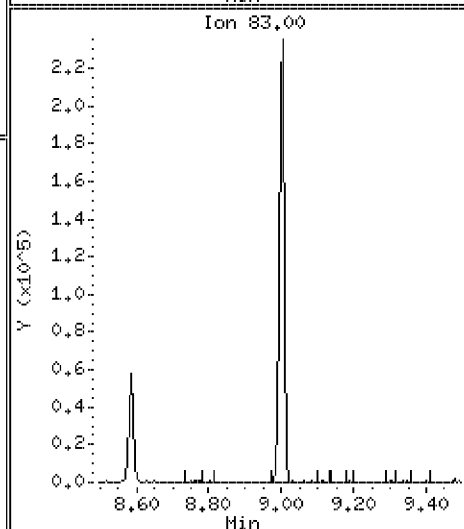
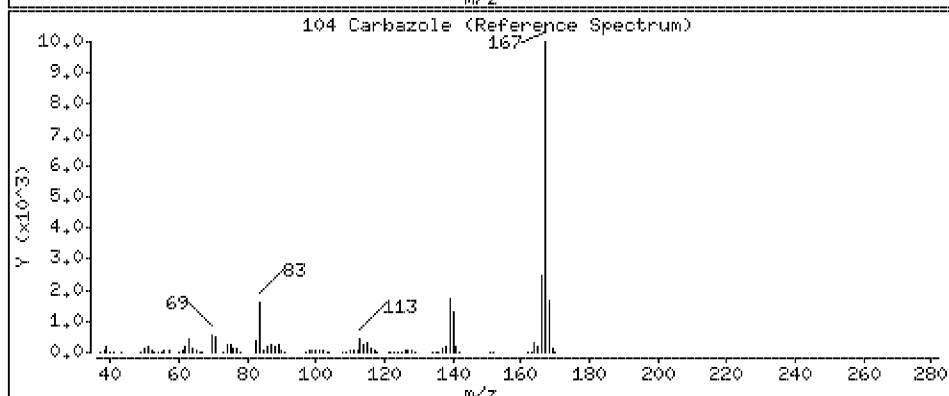
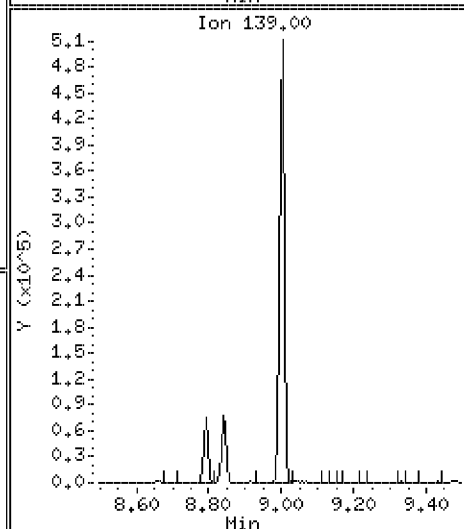
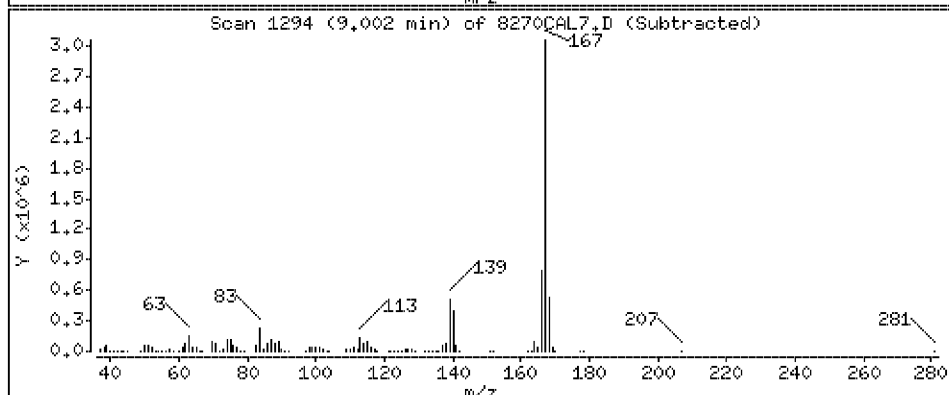
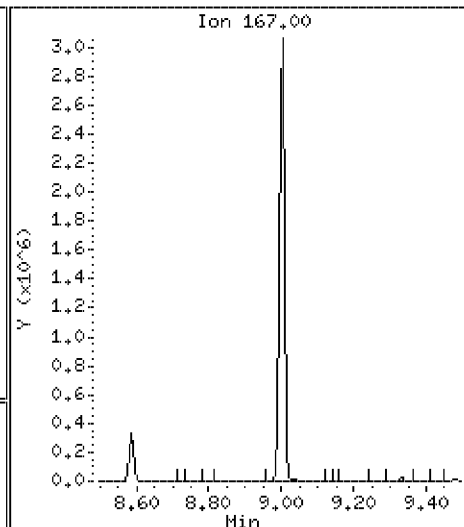
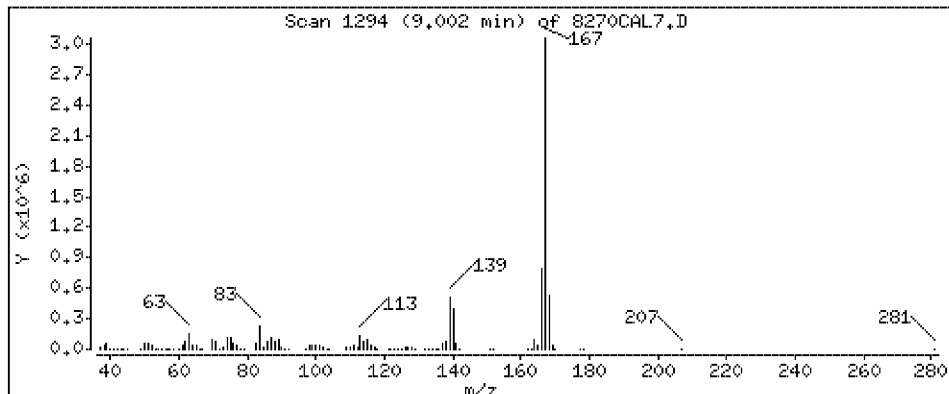
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

104 Carbazole

Concentration: 99.5 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

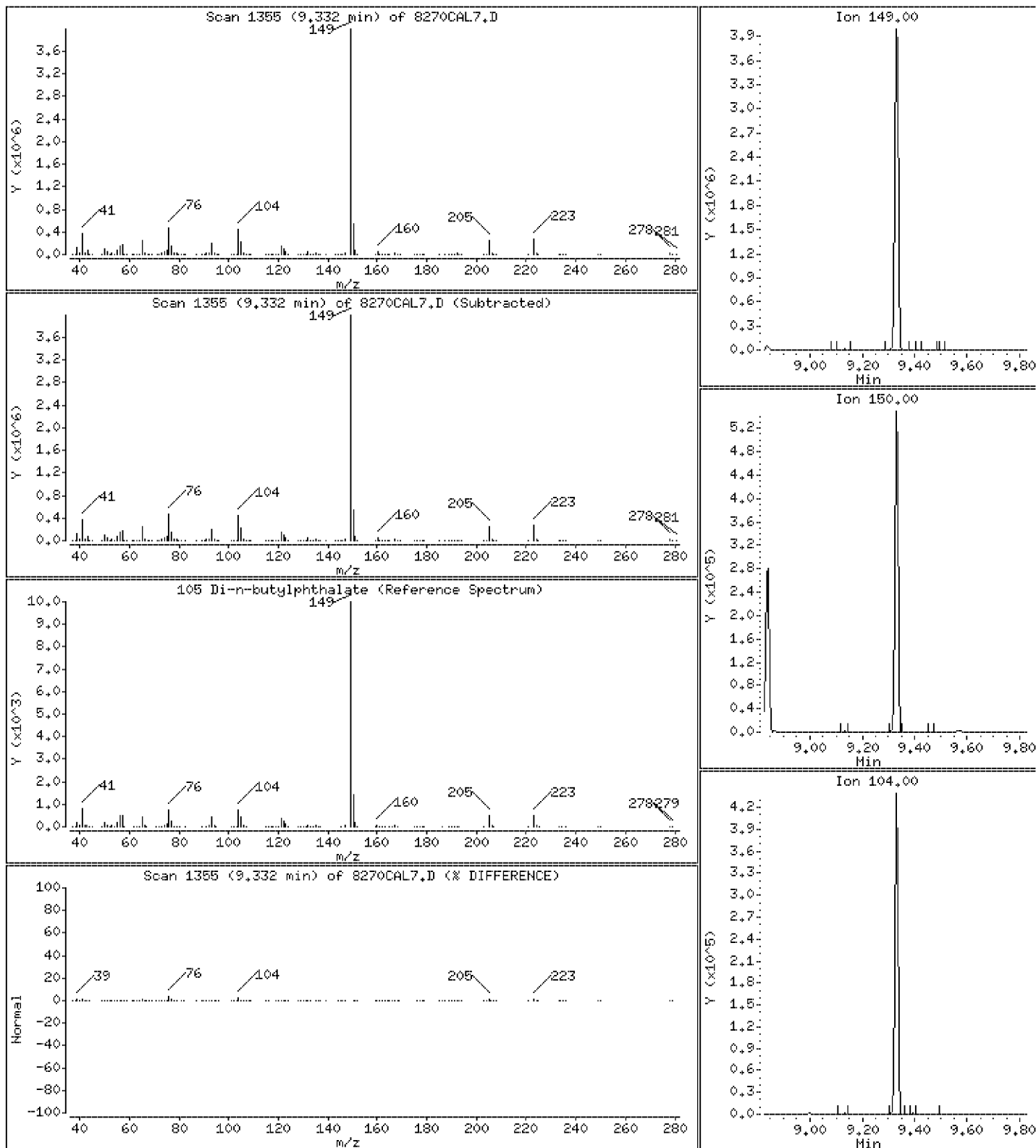
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

105 Di-n-butylphthalate

Concentration: 97.4 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

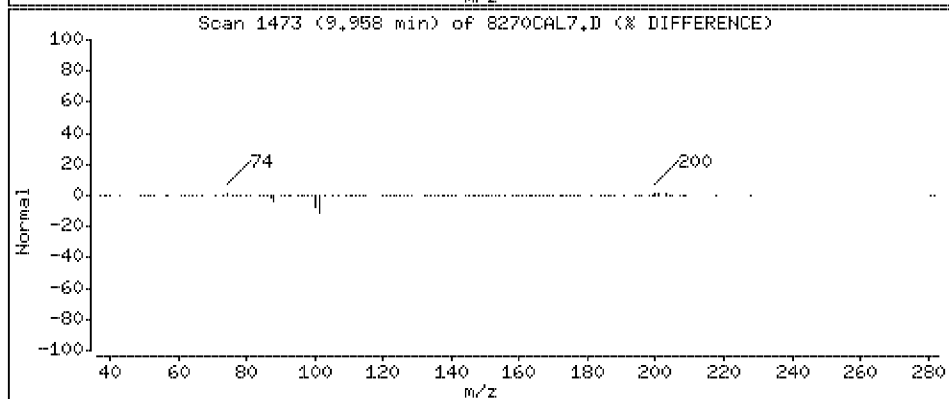
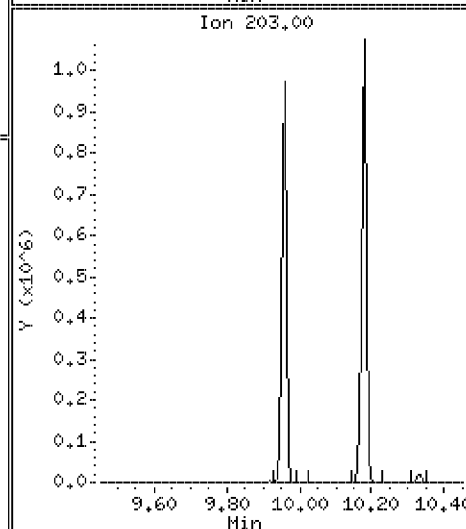
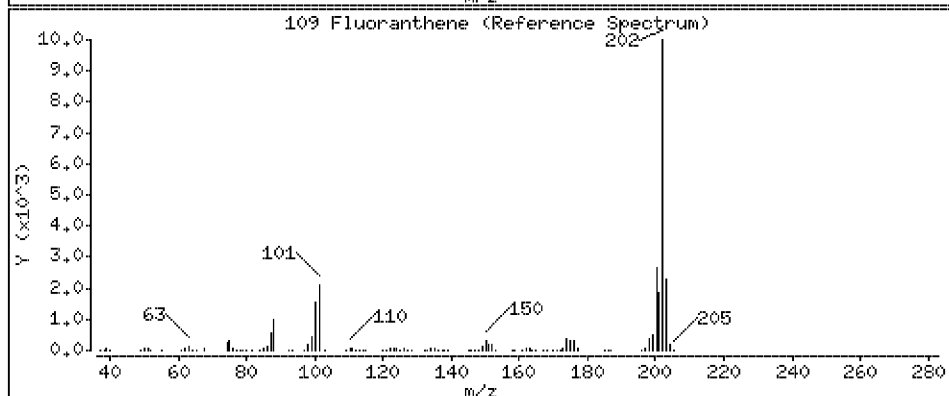
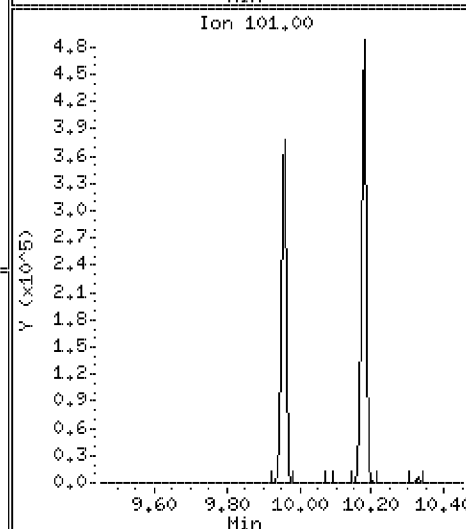
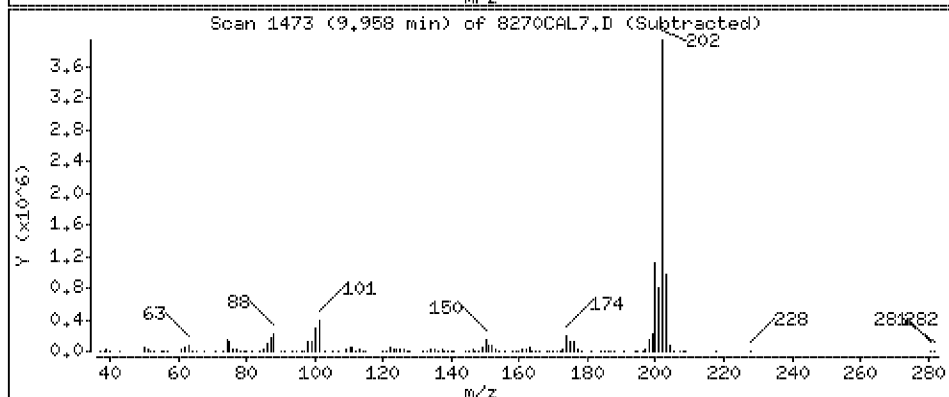
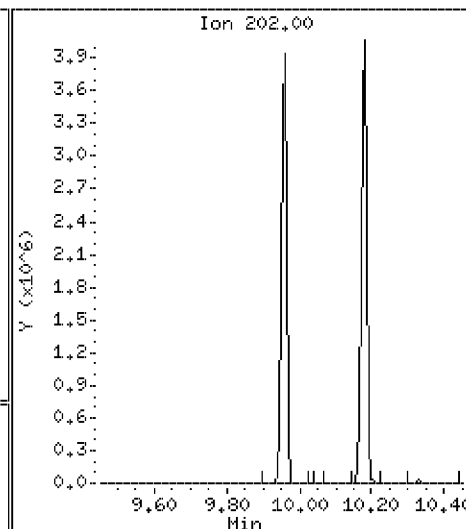
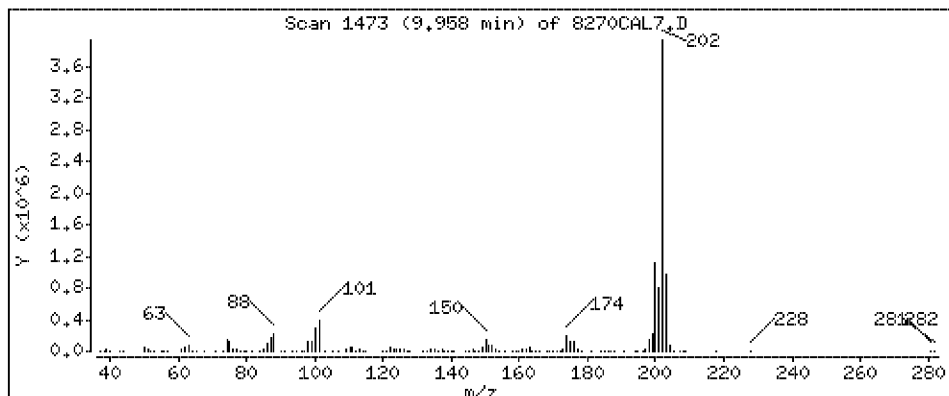
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

109 Fluoranthene

Concentration: 95.8 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

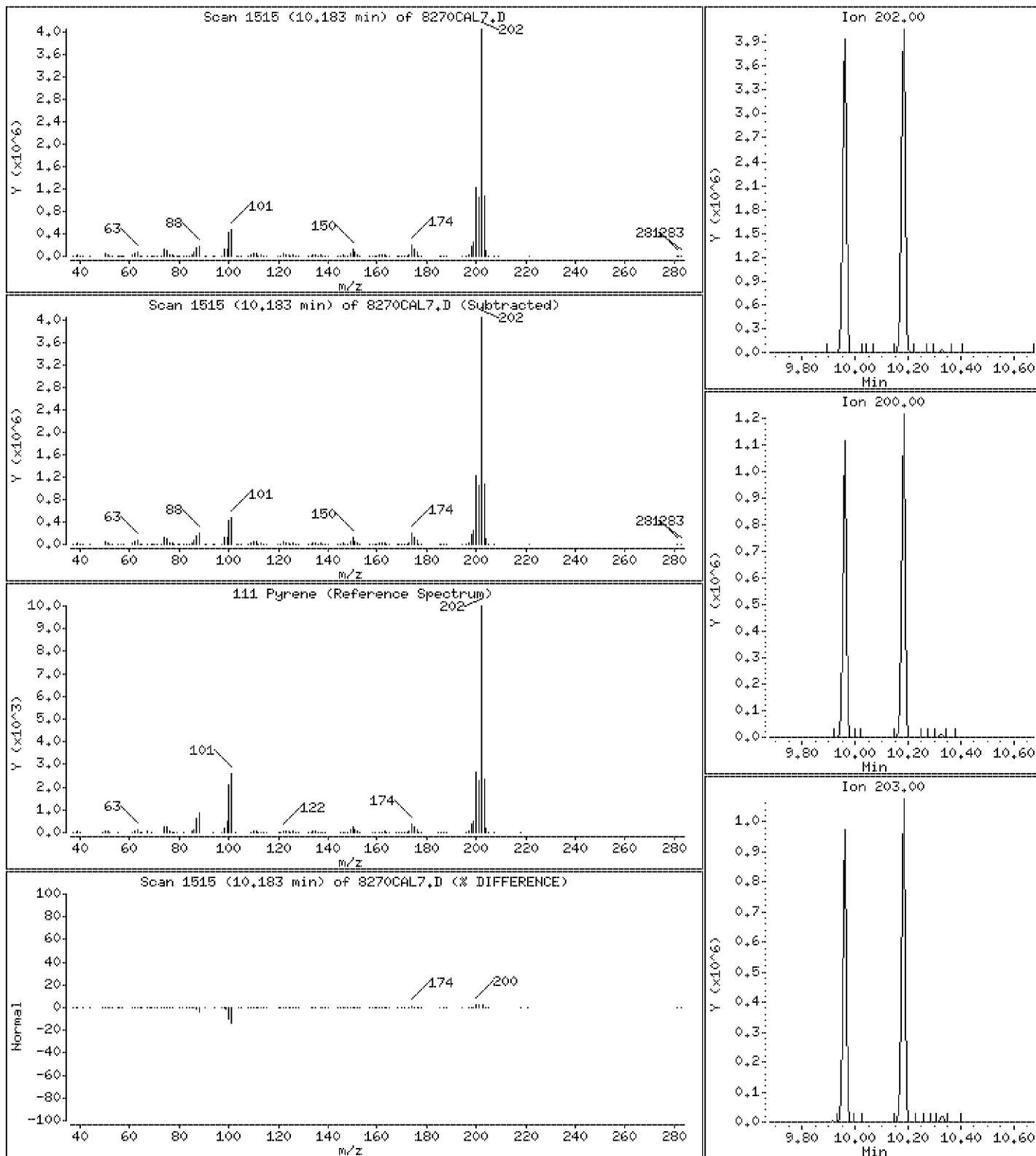
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

111 Pyrene

Concentration: 82.1 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

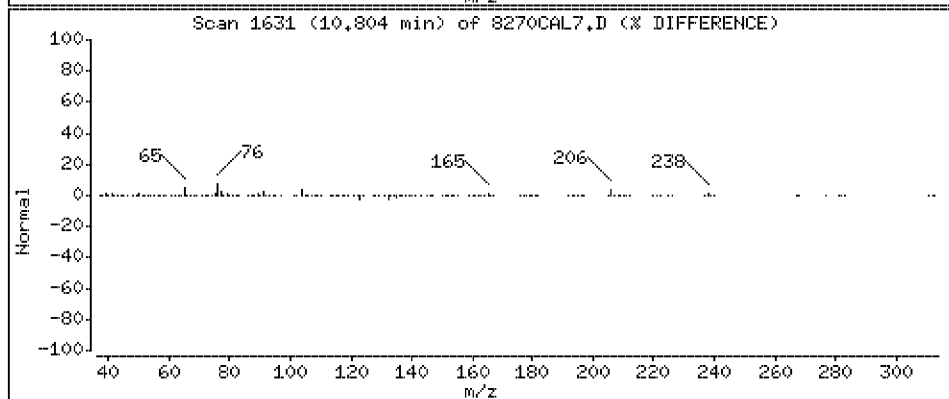
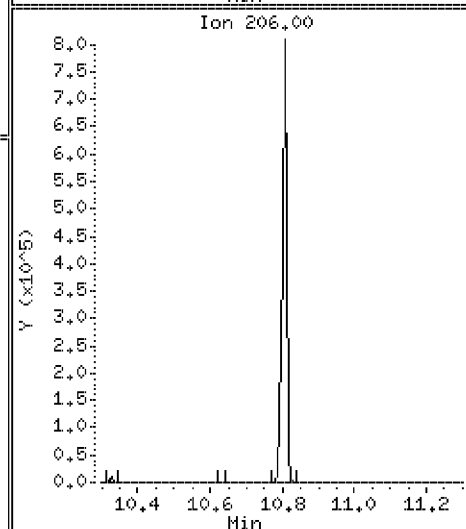
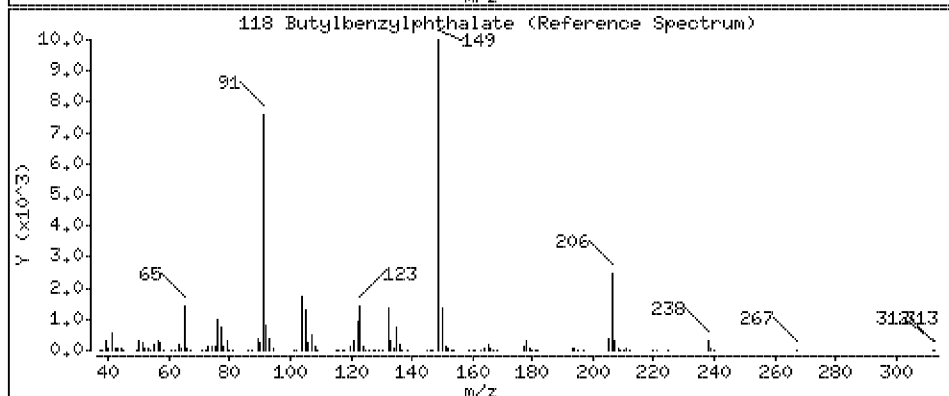
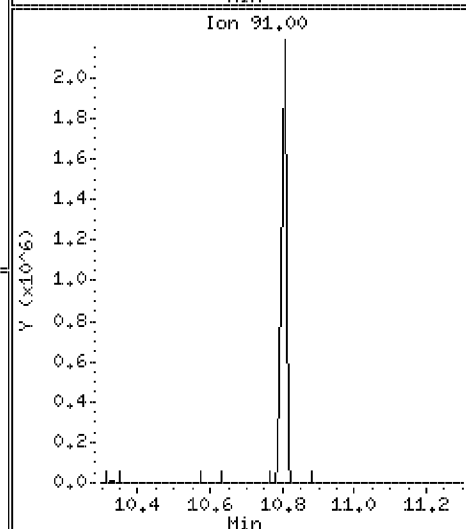
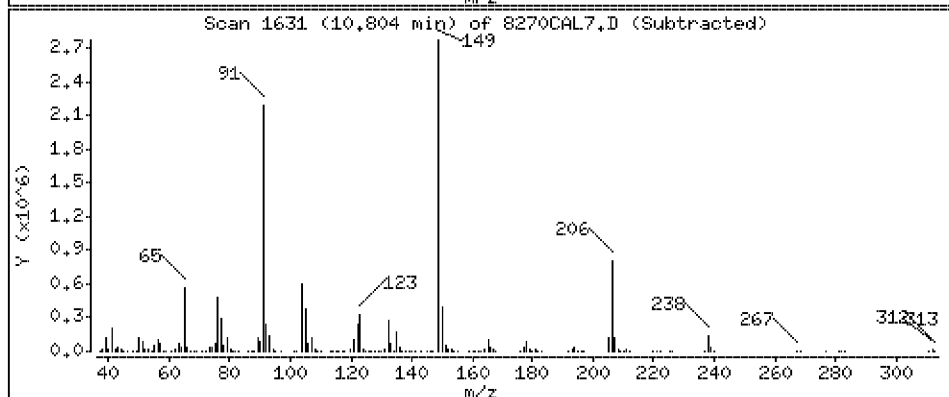
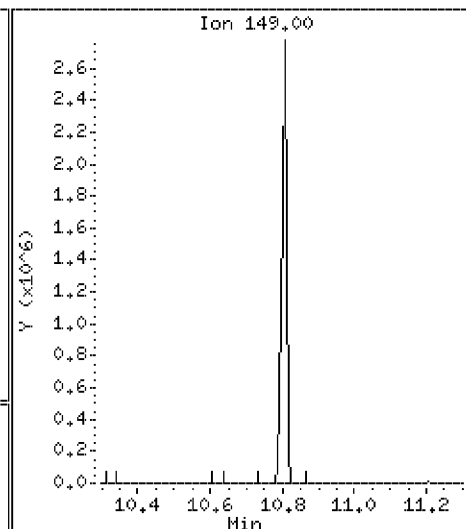
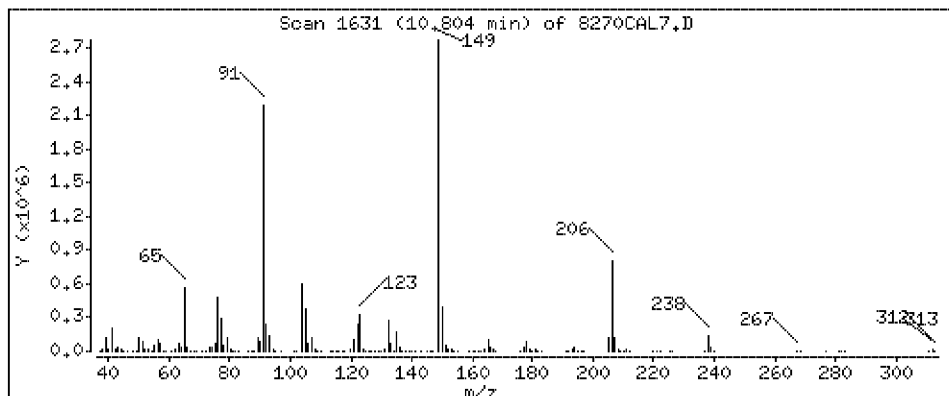
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

118 Butylbenzylphthalate

Concentration: 98.8 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

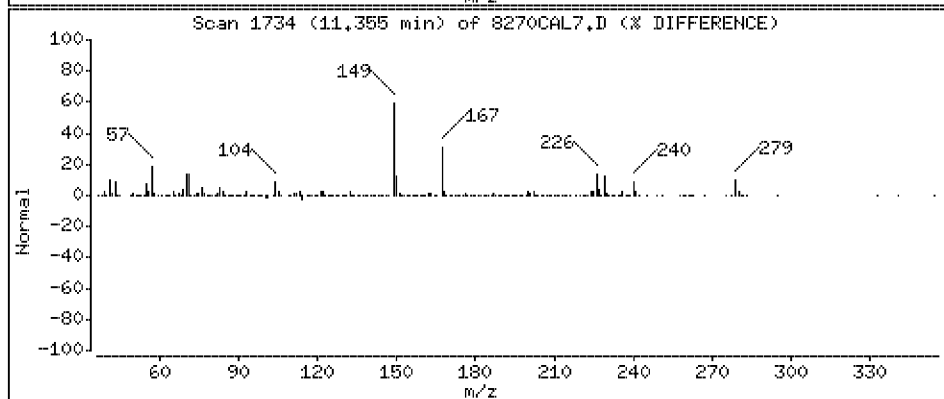
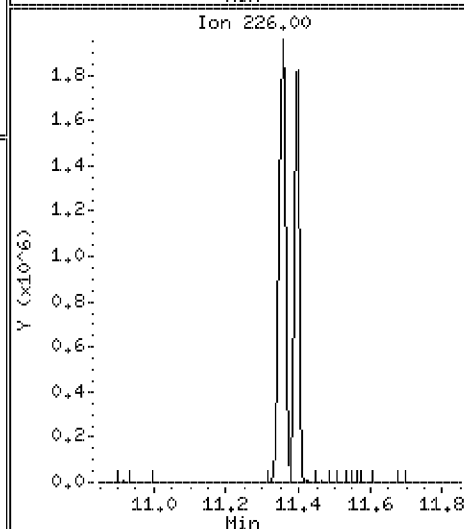
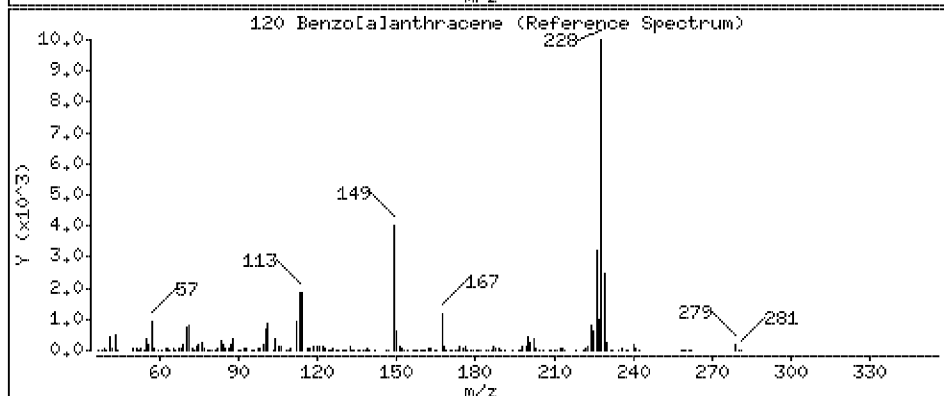
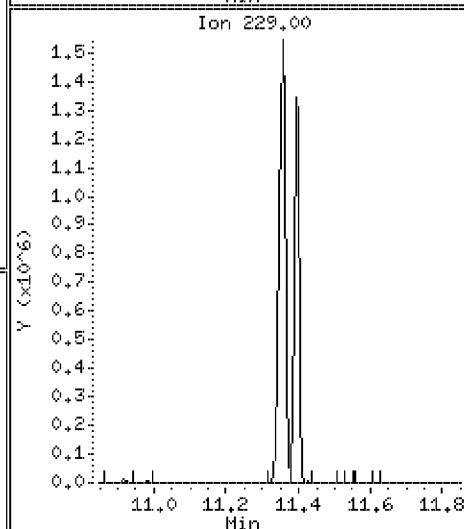
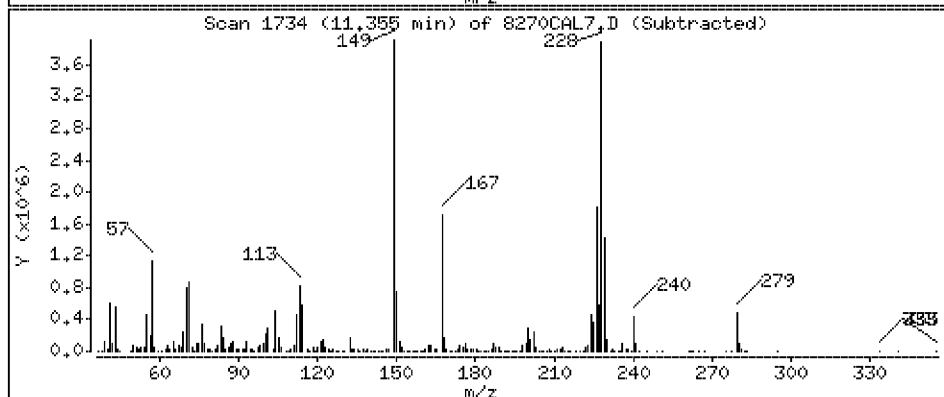
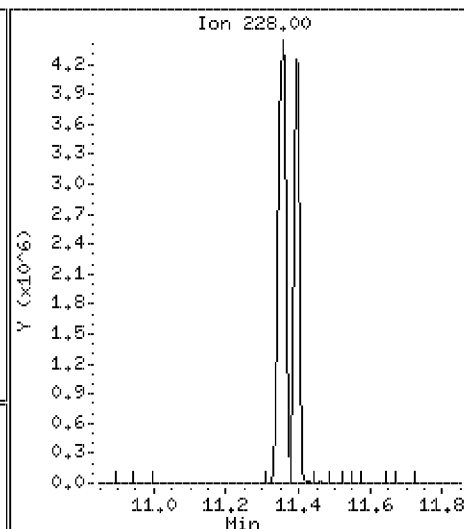
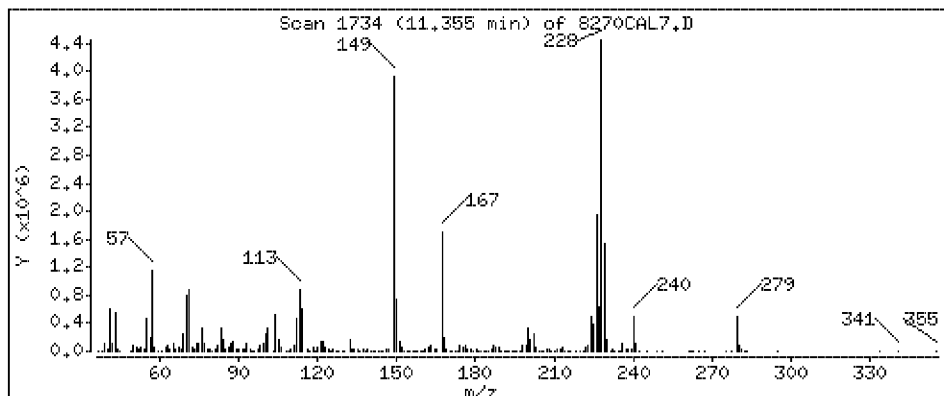
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

120 Benzo[*a*]anthracene

Concentration: 84.4 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

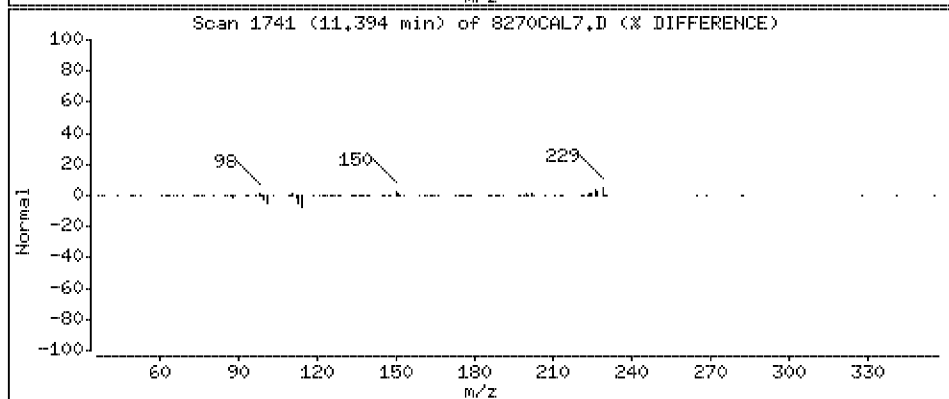
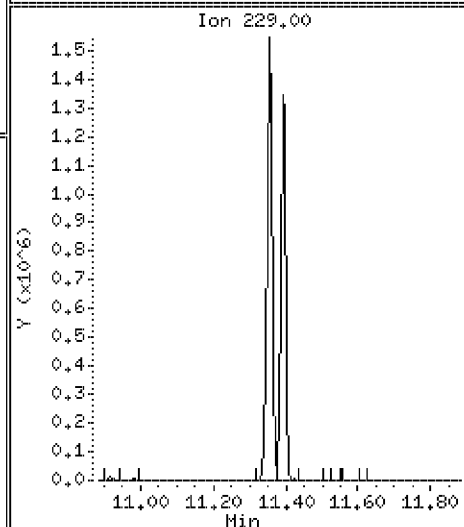
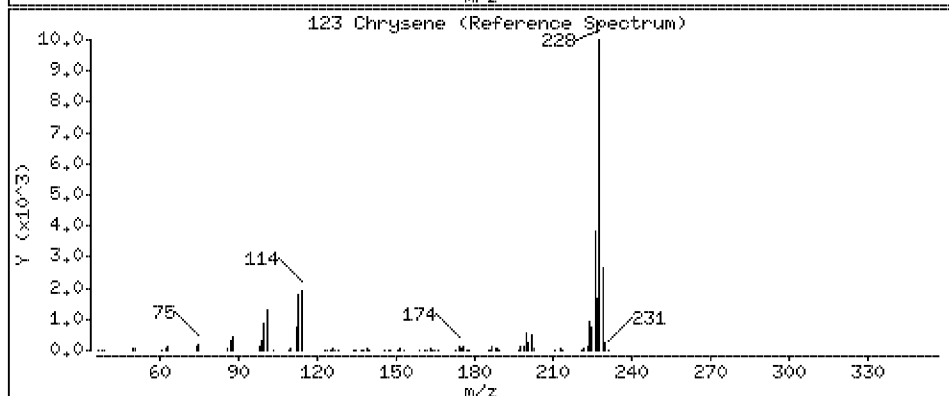
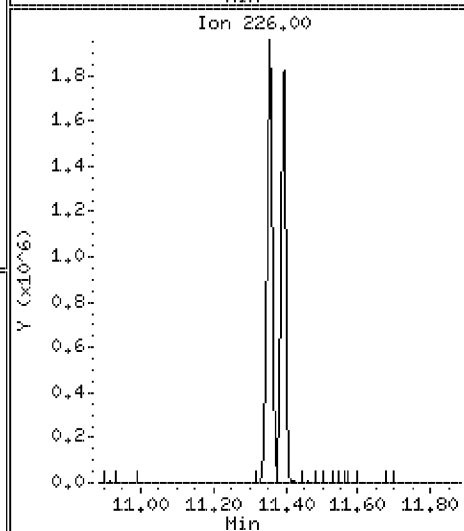
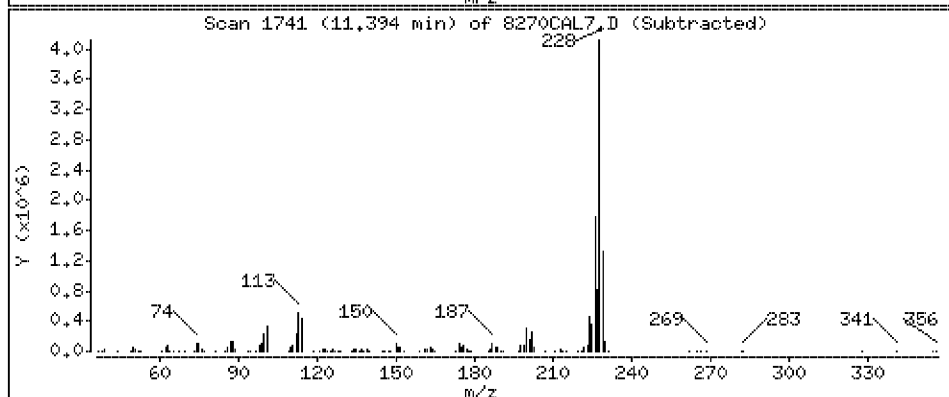
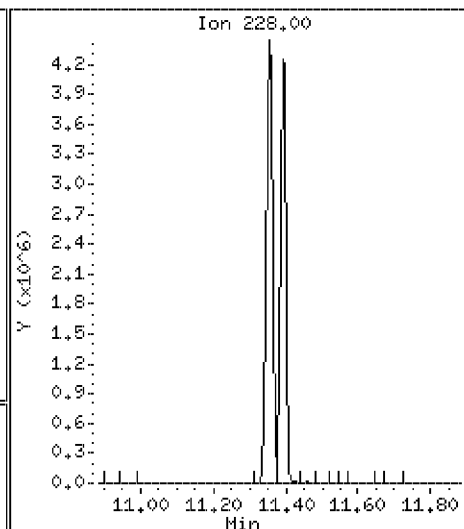
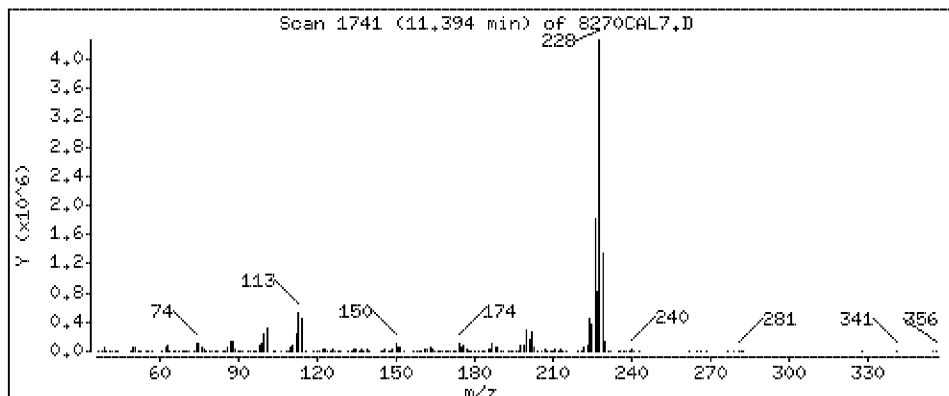
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

123 Chrysene

Concentration: 80.1 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

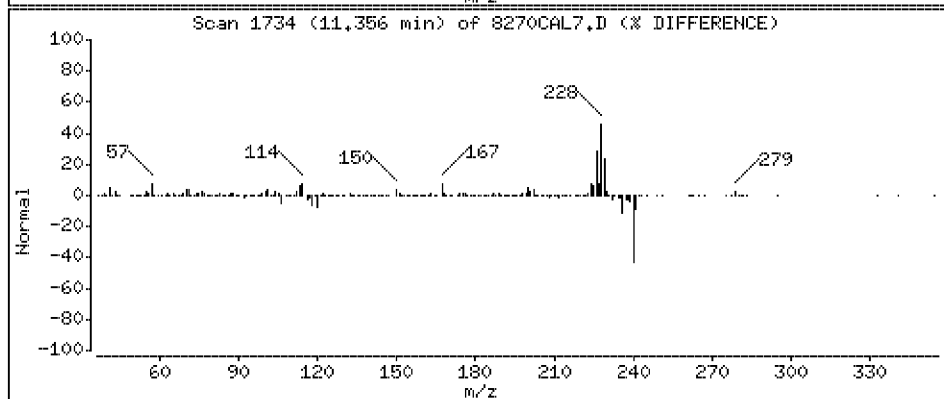
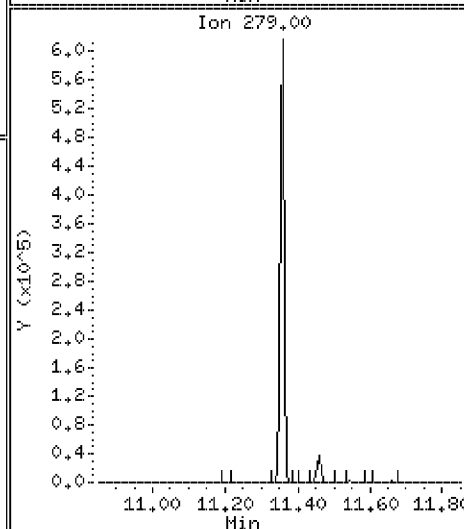
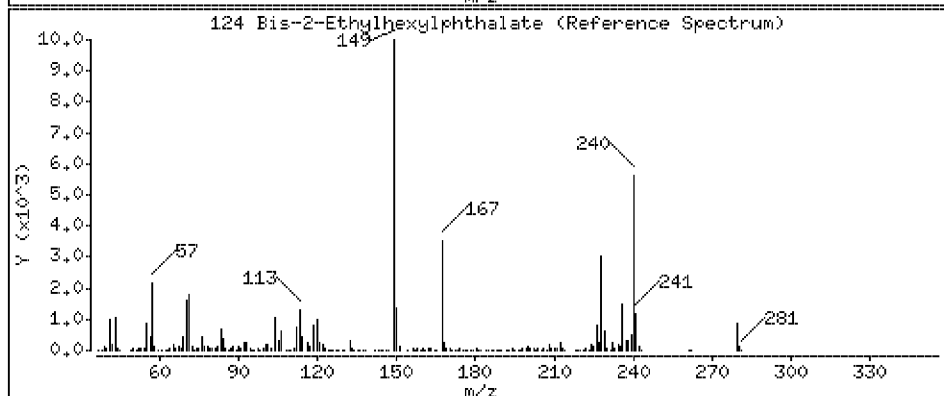
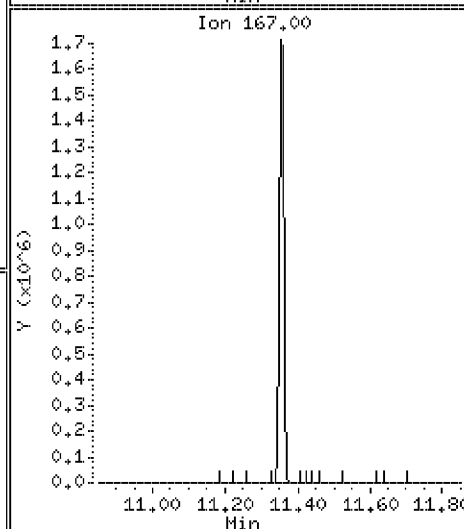
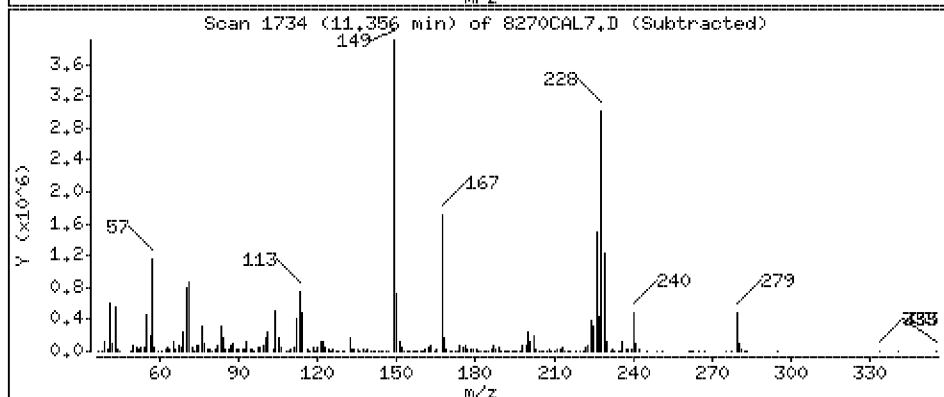
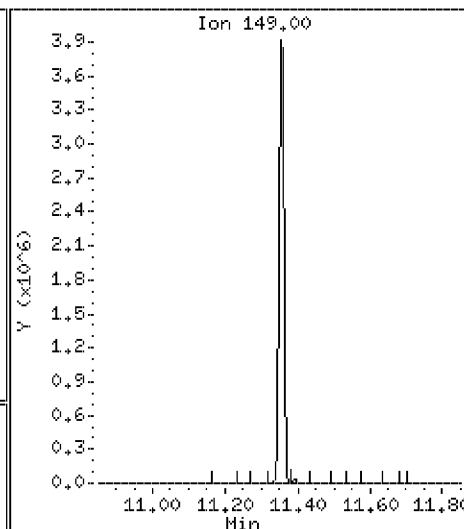
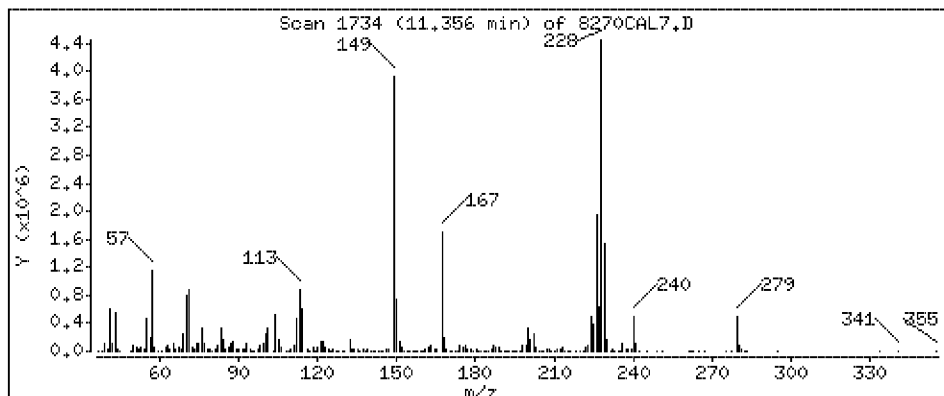
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

124 Bis-2-Ethylhexylphthalate

Concentration: 94.0 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

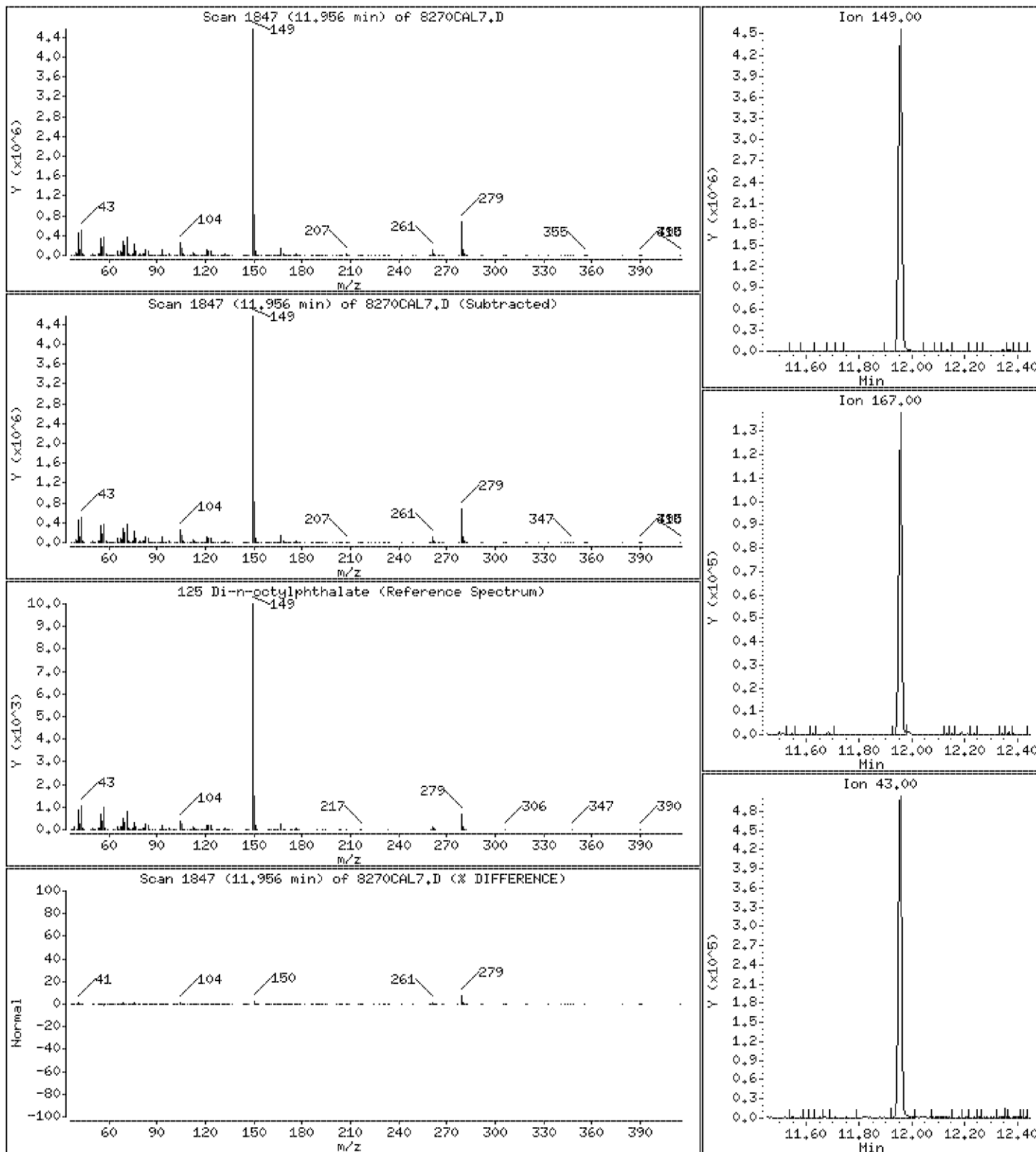
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

125 Di-n-octylphthalate

Concentration: 95.9 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

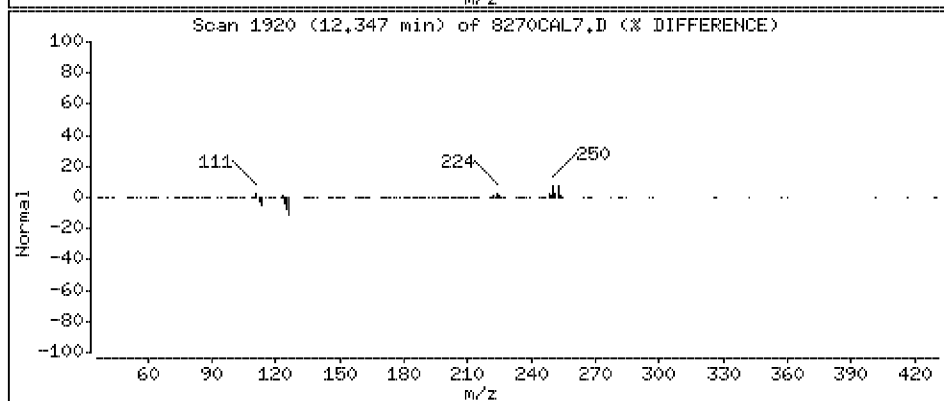
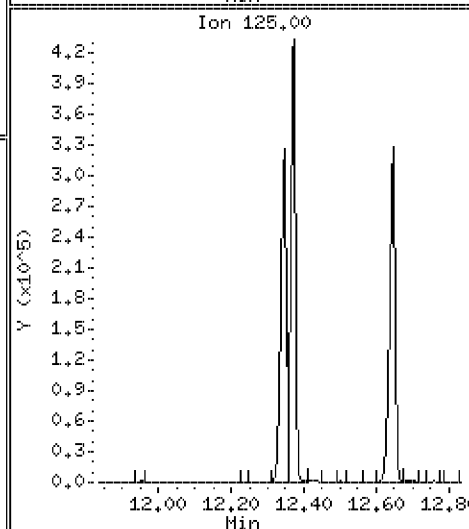
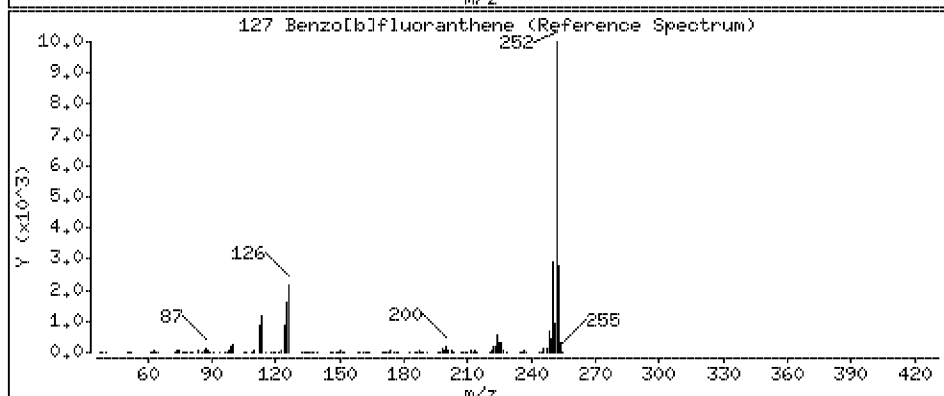
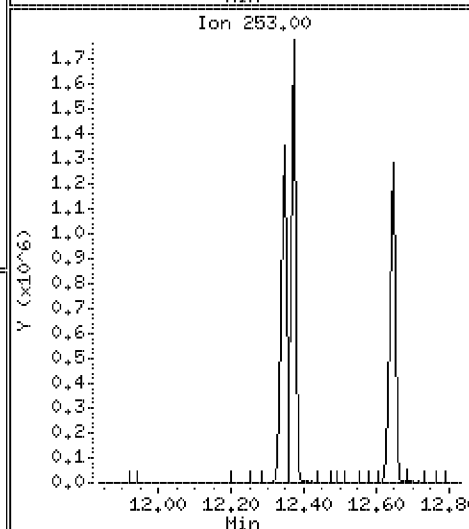
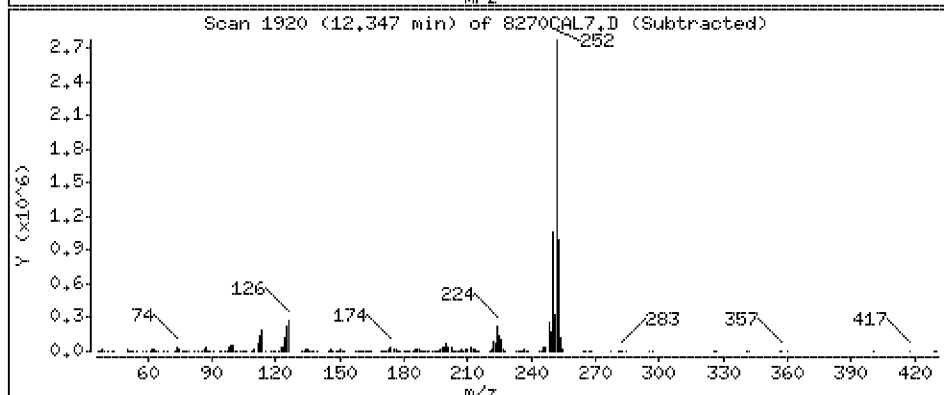
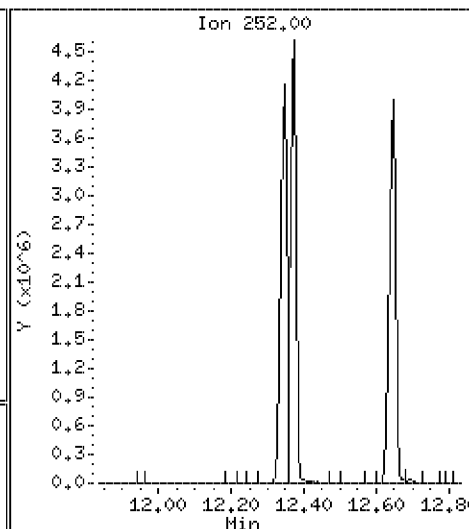
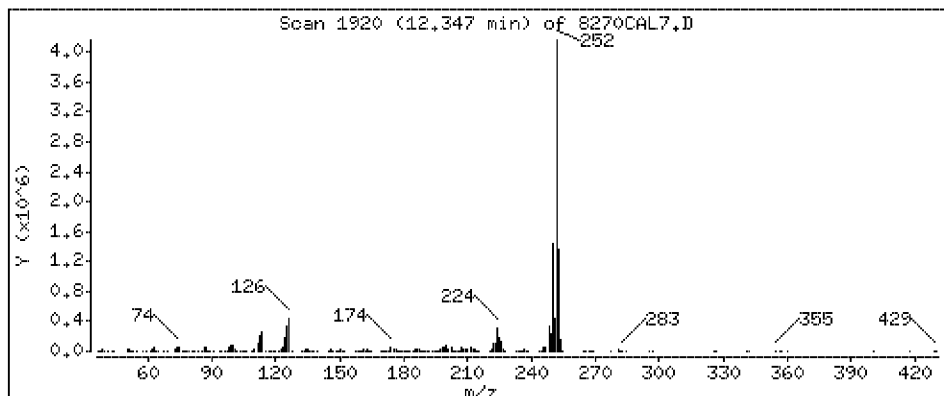
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

127 Benzo[b]fluoranthene

Concentration: 96.6 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

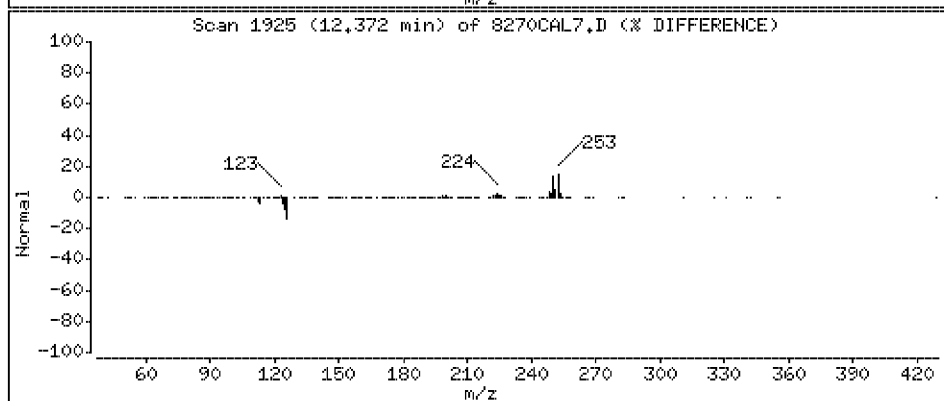
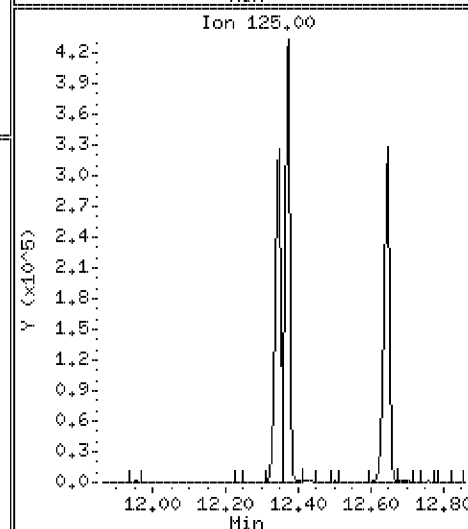
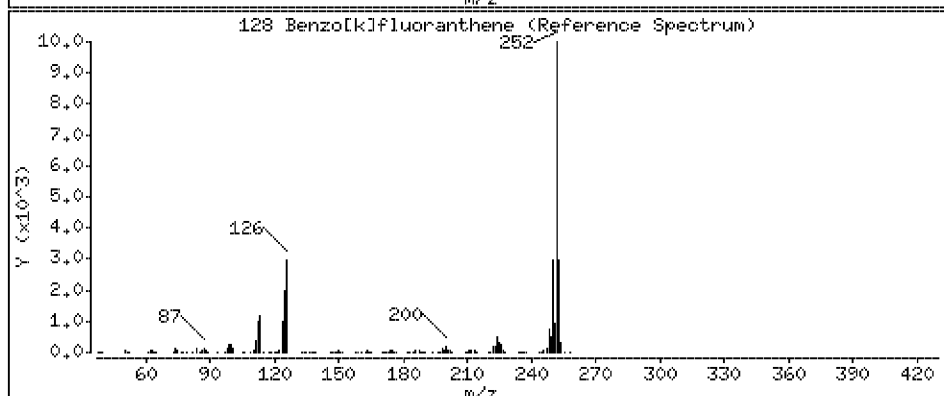
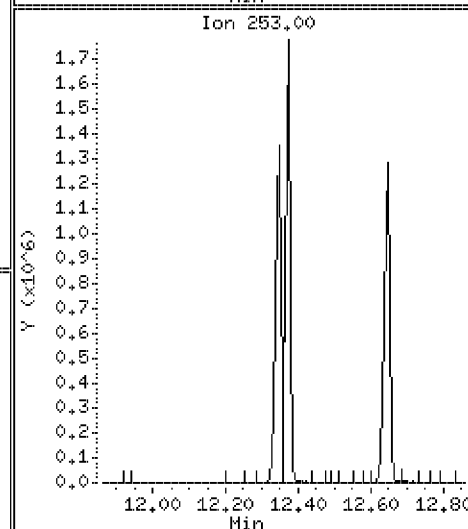
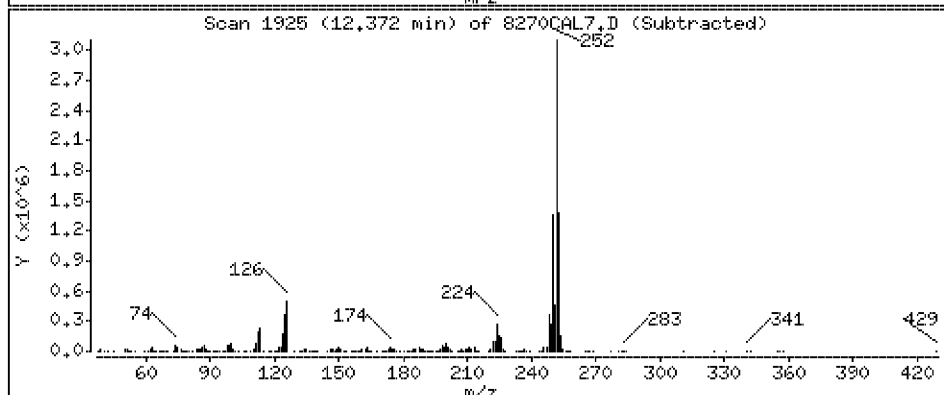
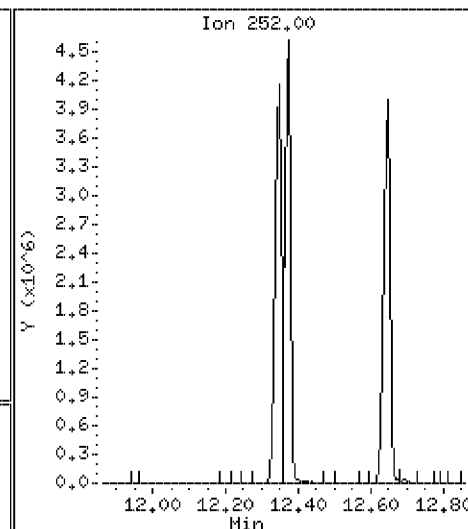
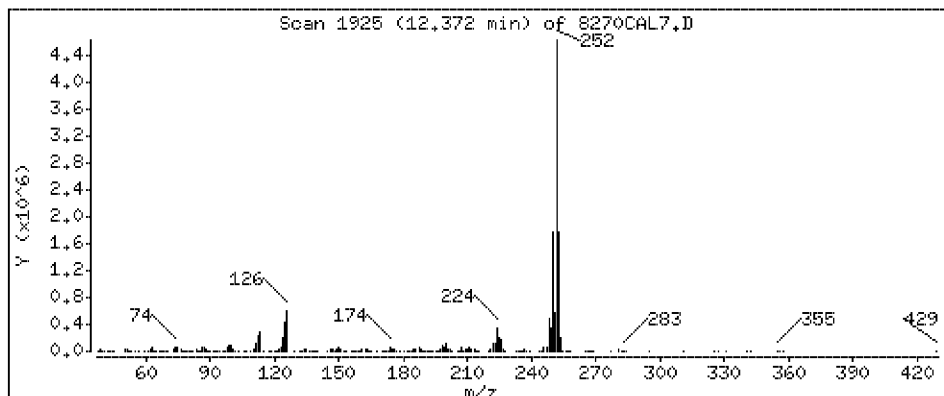
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

128 Benzo[k]fluoranthene

Concentration: 88.0 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

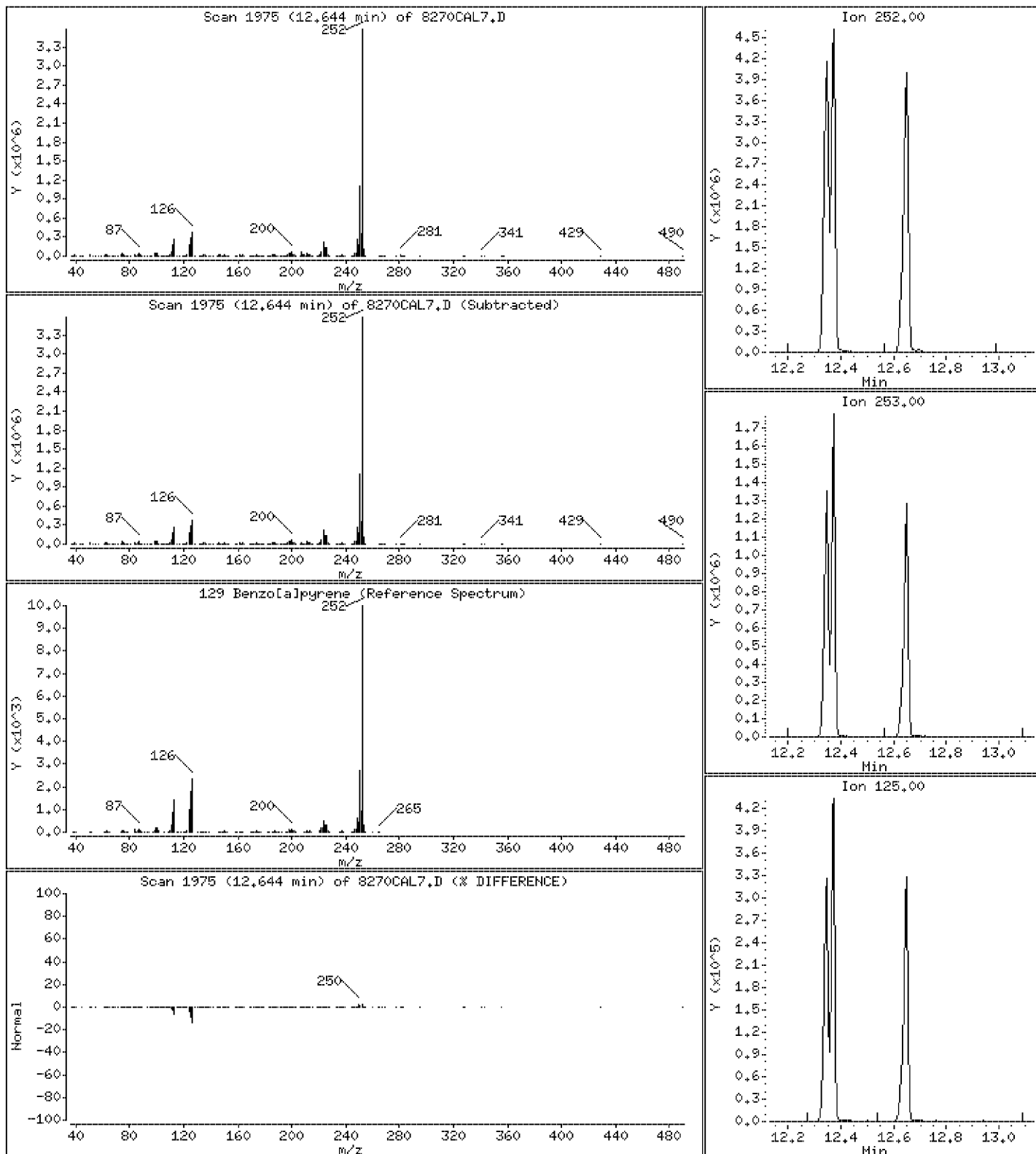
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

129 Benzo[ap]pyrene

Concentration: 95.6 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

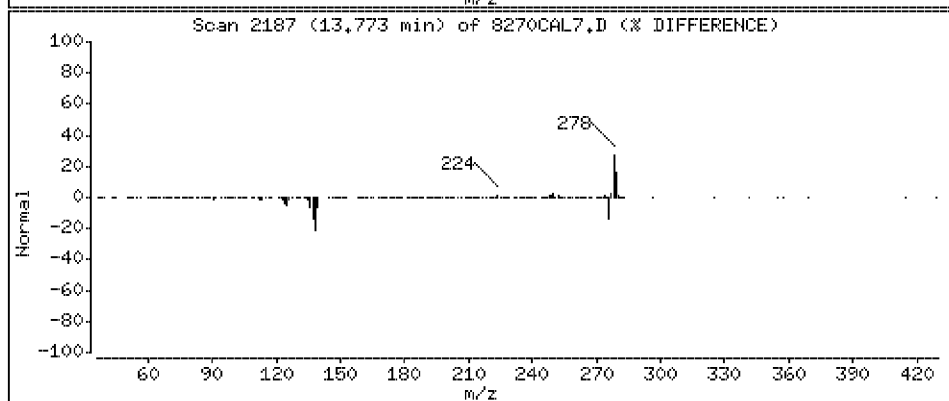
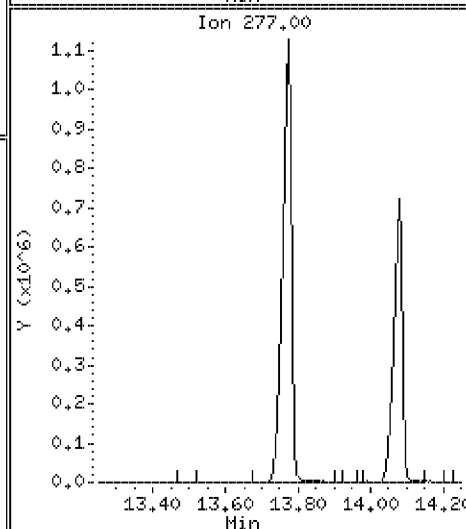
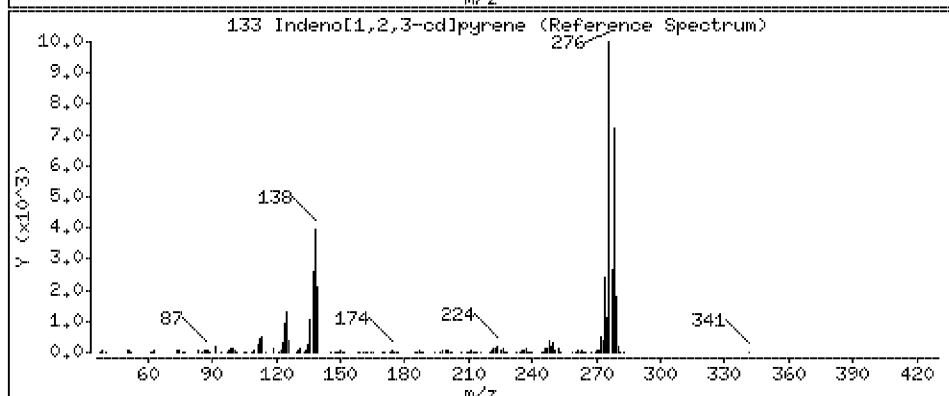
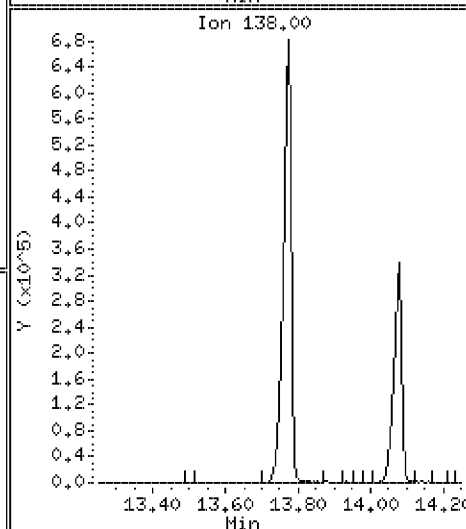
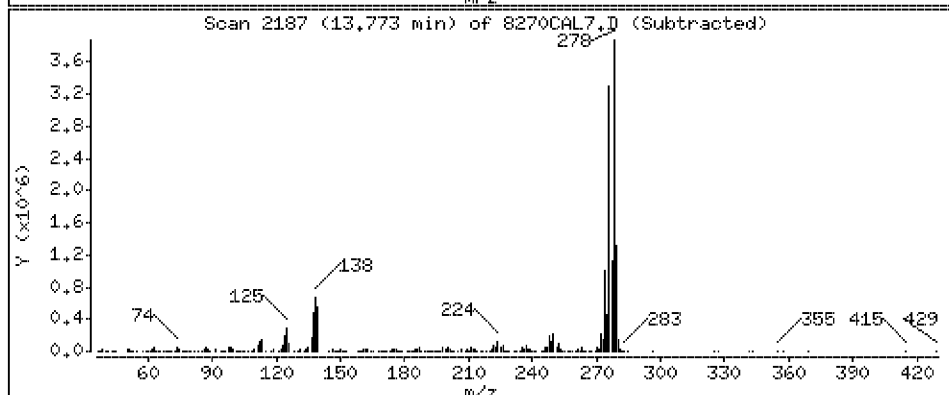
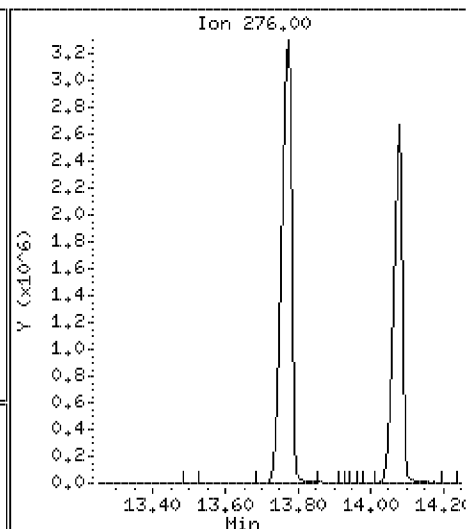
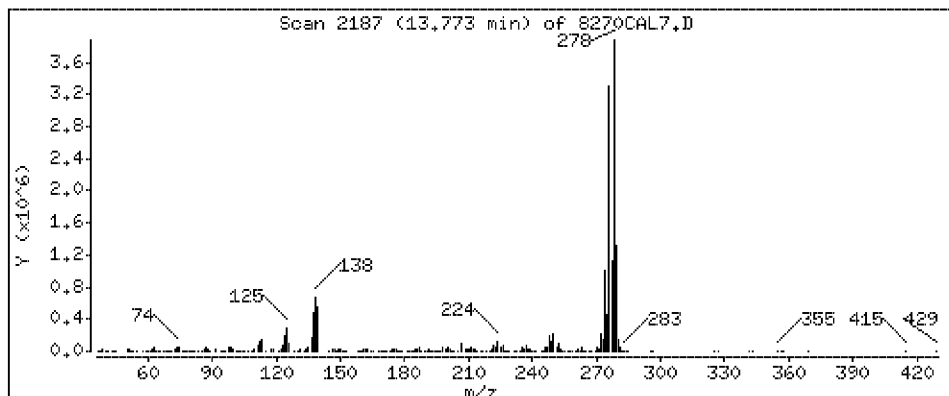
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

133 Indeno[1,2,3-cd]pyrene

Concentration: 97.1 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

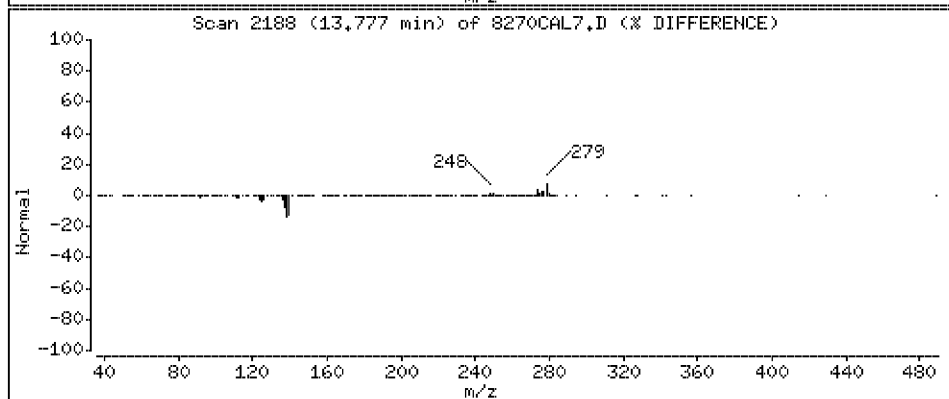
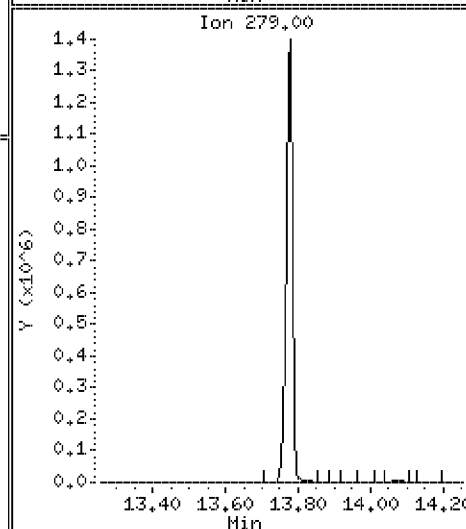
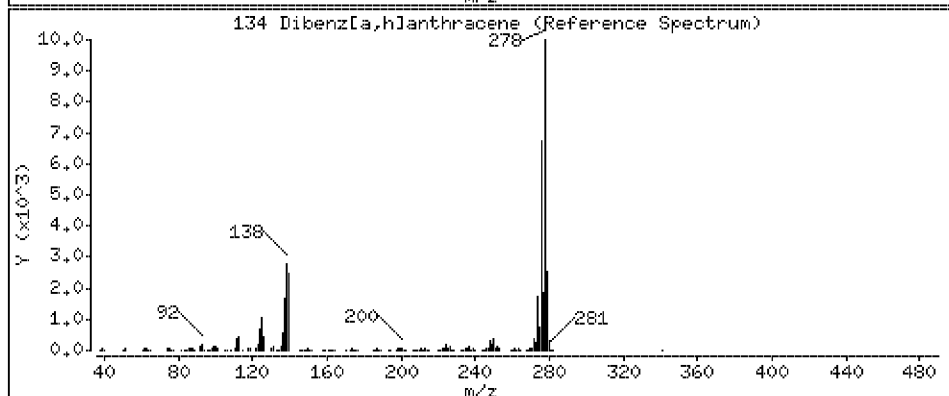
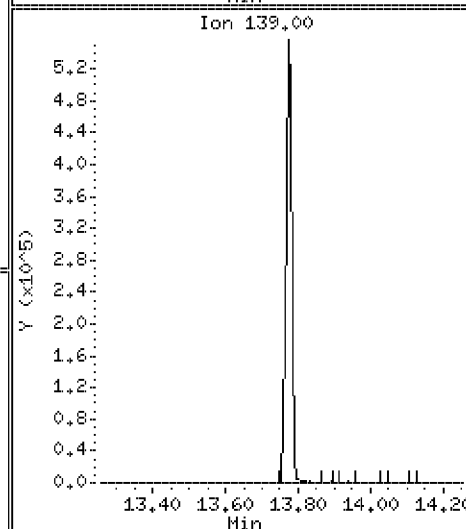
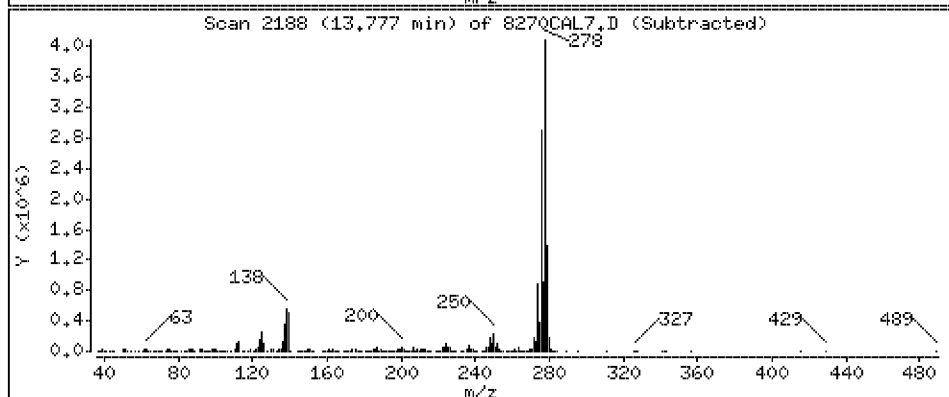
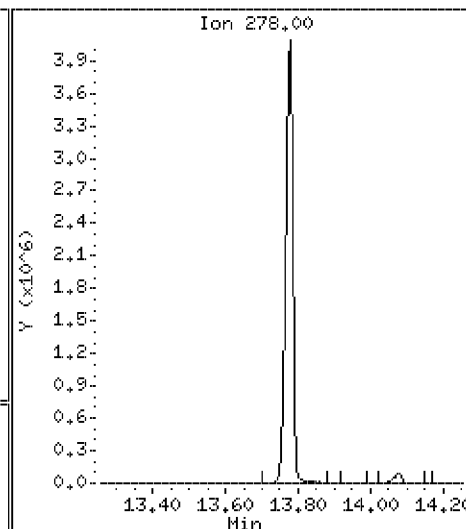
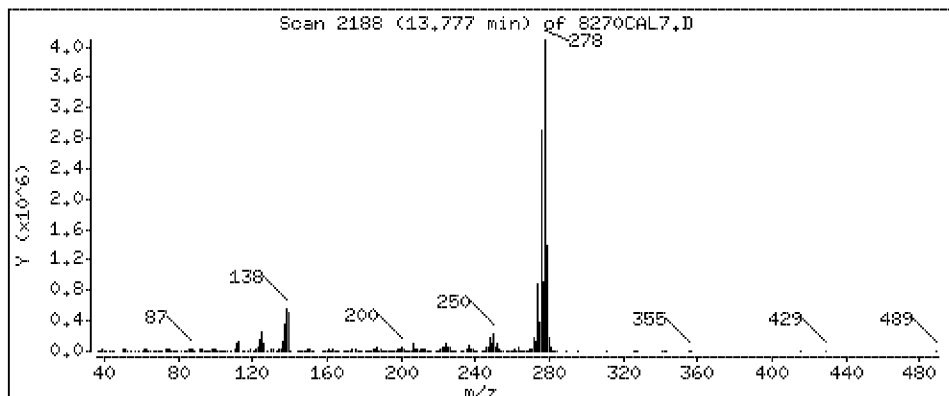
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

134 Dibenz[a,h]anthracene

Concentration: 96.1 ug/l



Date : 23-APR-2012 10:23

Client ID: 8270CAL7

Instrument: smsd03.i

Sample Info: 45921

Purge Volume: 1000.0

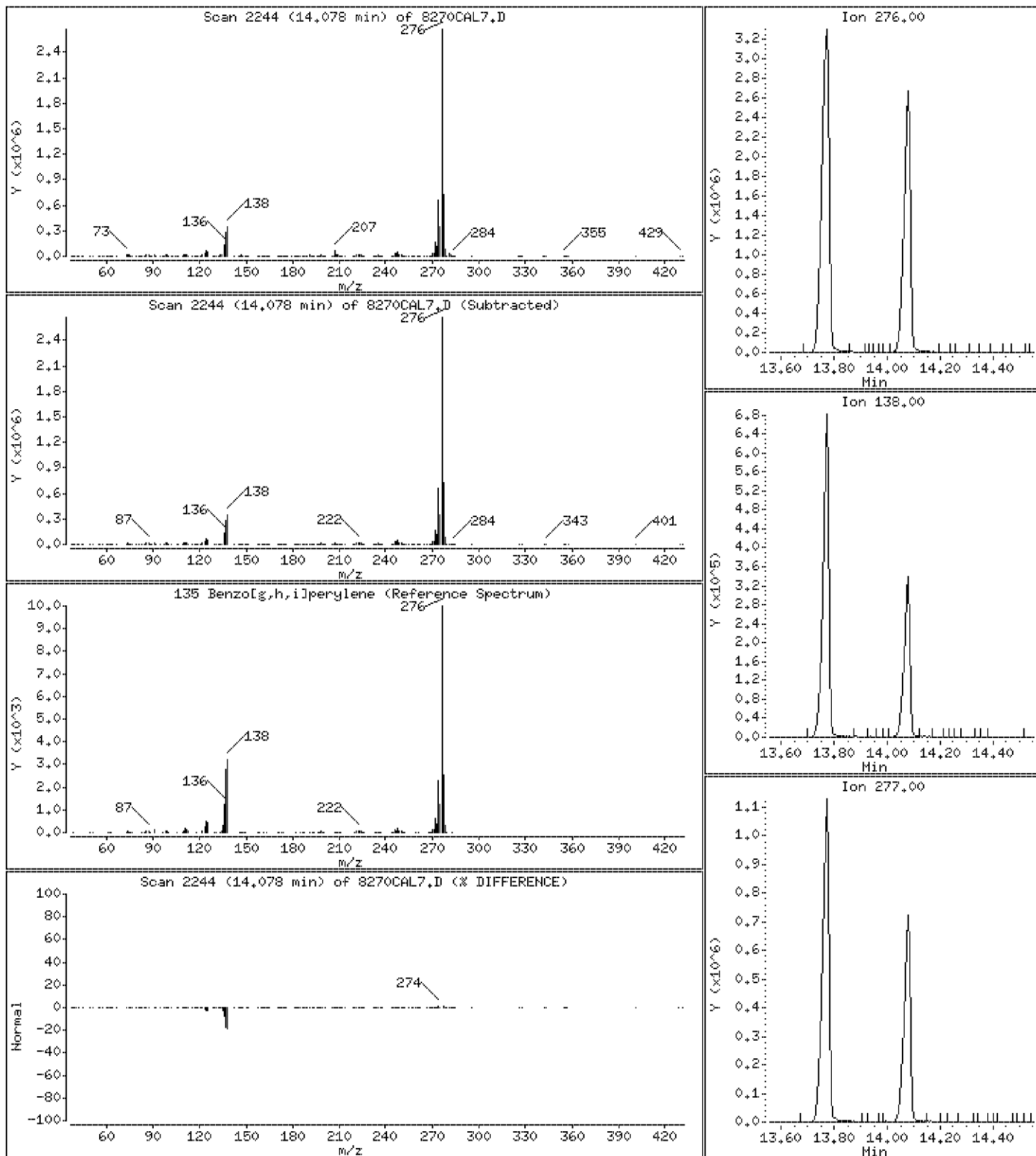
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

135 Benzo[g,h,i]perylene

Concentration: 88.7 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270CAL6.D
 Lab Smp Id: 45922 Client Smp ID: 8270CAL6
 Inj Date : 23-APR-2012 10:47 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 45922
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270bcs.m
 Meth Date : 25-Apr-2012 09:57 mjacobs Quant Type: ISTD
 Cal Date : 17-APR-2012 22:27 Cal File: AP9CAL7.D
 Als bottle: 2 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: 8270caln.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
2 Pyridine CAS #: 110-86-1									
2.379	2.381	(0.535)	79	1025473	75.0000	76.2	80.00- 120.00	100.00	
2.379	2.381	(0.535)	52	386192			7.01- 67.01	37.66	
M 16 Cresols (Total) CAS #: 1319-77-3									
				1813052	150.000			(a)	
1 N-Nitrosodimethylamine CAS #: 62-75-9									
2.338	2.338	(0.526)	42	443170	75.0000	72.8	80.00- 120.00	100.00	
2.339	2.338	(0.526)	74	635675			112.35- 172.35	143.44	
2.337	2.338	(0.525)	44	19195			0.00- 34.21	4.33	
\$ 6 2-Fluorophenol (SURR) CAS #: 367-12-4									
3.383	3.383	(0.761)	112	1572948	150.000	152	80.00- 120.00	100.00	
3.383	3.383	(0.760)	64	995386			33.15- 93.15	63.28	
\$ 11 Phenol-d5 (SURR) CAS #: 4165-62-2									
4.143	4.139	(0.931)	99	2159542	150.000	156	80.00- 120.00	100.00	
4.142	4.139	(0.931)	42	406739			0.00- 48.89	18.83	
4.143	4.139	(0.931)	71	1146285			23.76- 83.76	53.08	
13 Phenol CAS #: 108-95-2									
4.154	4.151	(0.934)	94	1245449	75.0000	79.1	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	=====	=====	=====	=====	=====	=====	=====
13 Phenol (continued)									
4.155	4.151	(0.934)	65	730696			31.39- 91.39	58.67	
4.155	4.151	(0.934)	66	1317989			81.48- 141.48	105.82	

10 Aniline CAS #: 62-53-3									
4.168	4.166	(0.937)	93	1263026	75.0000	75.7	80.00- 120.00	100.00	
4.155	4.166	(0.934)	65	730695			26.91- 86.91	57.85	
4.155	4.166	(0.934)	66	1317988			73.34- 133.34	104.35	

14 Bis(2-Chloroethyl)ether CAS #: 111-44-4									
4.213	4.210	(0.947)	93	743601	75.0000	75.1	80.00- 120.00	100.00	
4.213	4.210	(0.947)	63	531759			42.30- 102.30	71.51	
4.213	4.210	(0.947)	95	242011			1.53- 61.53	32.55	

15 2-Chlorophenol CAS #: 95-57-8									
4.280	4.278	(0.962)	128	788989	75.0000	76.2	80.00- 120.00	100.00	
4.279	4.278	(0.962)	64	412612			20.72- 80.72	52.30	
4.280	4.278	(0.962)	130	262008			2.39- 62.39	33.21	

17 1,3-Dichlorobenzene CAS #: 541-73-1									
4.402	4.401	(0.989)	146	964967	75.0000	76.0	80.00- 120.00	100.00	
4.402	4.401	(0.989)	148	664706			36.16- 96.16	68.88	
4.401	4.401	(0.989)	111	441623			16.14- 76.14	45.77	

* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.449	4.448	(1.000)	152	358142	40.0000		80.00- 120.00	100.00	
4.448	4.448	(1.000)	115	226411			32.20- 92.20	63.22	
4.449	4.448	(1.000)	150	653470			139.77- 199.77	182.46	

19 1,4-Dichlorobenzene CAS #: 106-46-7									
4.464	4.462	(1.003)	146	1019395	75.0000	76.1	80.00- 120.00	100.00	
4.464	4.462	(1.003)	148	688579			38.09- 98.09	67.55	
4.463	4.462	(1.003)	111	444918			14.50- 74.50	43.65	

21 Benzyl alcohol CAS #: 100-51-6									
4.570	4.567	(1.027)	108	562471	75.0000	79.3	80.00- 120.00	100.00	
4.570	4.567	(1.027)	79	932040			152.29- 212.29	165.70	
4.570	4.567	(1.027)	77	650646			97.26- 157.26	115.68	

20 1,2-Dichlorobenzene CAS #: 95-50-1									
4.600	4.599	(1.034)	146	927343	75.0000	76.1	80.00- 120.00	100.00	
4.600	4.599	(1.034)	148	622316			38.32- 98.32	67.11	
4.600	4.599	(1.034)	111	433510			18.14- 78.14	46.75	

22 2-Methylphenol CAS #: 95-48-7									
4.673	4.671	(1.050)	107	736247	75.0000	78.5	80.00- 120.00	100.00	
4.673	4.671	(1.050)	108	829099			82.43- 142.43	112.61	
4.674	4.671	(1.051)	79	634721			55.43- 115.43	86.21	

23 2,2'-oxybis(1-chloropropane) CAS #: 108-60-1									
4.677	4.675	(1.051)	45	520187	75.0000	75.2	80.00- 120.00	100.00	
4.674	4.675	(1.051)	77	702751			102.98- 162.98	135.10	
4.677	4.675	(1.051)	121	285137			24.22- 84.22	54.81	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
28 4-Methylphenol					CAS #: 106-44-5			
4.811	4.808	(1.081)	107	1076805	75.0000	79.4	80.00- 120.00	100.00
4.811	4.808	(1.081)	108	870722			50.54- 110.54	80.86
4.811	4.808	(1.081)	79	344363			2.76- 62.76	31.98

26 N-Nitrosodipropylamine					CAS #: 621-64-7			
4.803	4.798	(1.080)	70	809504	75.0000	76.8	80.00- 120.00	100.00
4.803	4.798	(1.080)	42	311003			6.87- 66.87	38.42
4.804	4.798	(1.080)	130	164439			0.00- 49.23	20.31

30 Hexachloroethane					CAS #: 67-72-1			
4.902	4.902	(1.102)	117	403999	75.0000	76.4	80.00- 120.00	100.00
4.903	4.902	(1.102)	201	471094			90.07- 150.07	116.61
4.903	4.902	(1.102)	199	292110			43.69- 103.69	72.30

\$ 31 Nitrobenzene-d5 (SURR)					CAS #: 4165-60-0			
4.946	4.944	(0.881)	82	1202870	75.0000	76.3	80.00- 120.00	100.00
4.947	4.944	(0.882)	128	403262			2.76- 62.76	33.52
4.946	4.944	(0.881)	54	450306			7.08- 67.08	37.44

32 Nitrobenzene					CAS #: 98-95-3			
4.964	4.962	(0.885)	77	1177583	75.0000	75.8	80.00- 120.00	100.00
4.965	4.962	(0.885)	123	409391			4.18- 64.18	34.77
4.964	4.962	(0.885)	65	179941			0.00- 45.17	15.28

34 Isophorone					CAS #: 78-59-1			
5.181	5.176	(0.923)	82	1428531	75.0000	75.2	80.00- 120.00	100.00
5.182	5.176	(0.923)	138	228904			0.00- 46.29	16.02
5.181	5.176	(0.923)	95	127436			0.00- 39.21	8.92

35 2-Nitrophenol					CAS #: 88-75-5			
5.255	5.253	(0.936)	139	444679	75.0000	77.4	80.00- 120.00	100.00
5.254	5.253	(0.936)	65	314424			43.34- 103.34	70.71
5.255	5.253	(0.936)	109	222986			20.91- 80.91	50.15

36 2,4-Dimethylphenol					CAS #: 105-67-9			
5.296	5.294	(0.944)	122	678853	75.0000	76.7	80.00- 120.00	100.00
5.296	5.294	(0.944)	107	953453			111.45- 171.45	140.45
5.297	5.294	(0.944)	121	396429			28.89- 88.89	58.40

38 Bis(2-Chloroethoxy)methane					CAS #: 111-91-1			
5.372	5.369	(0.957)	93	998909	75.0000	77.8	80.00- 120.00	100.00
5.372	5.369	(0.957)	95	326463			3.06- 63.06	32.68
5.372	5.369	(0.957)	123	121967			0.00- 44.40	12.21

40 Benzoic Acid					CAS #: 65-85-0			
5.427	5.404	(0.967)	122	474035	75.0000	74.6	80.00- 120.00	100.00
5.427	5.404	(0.967)	105	671144			107.67- 167.67	141.58
5.426	5.404	(0.967)	77	574901			104.37- 164.37	121.28

41 2,4-Dichlorophenol					CAS #: 120-83-2			
5.492	5.490	(0.979)	162	804882	75.0000	77.1	80.00- 120.00	100.00
5.492	5.490	(0.979)	164	541210			36.50- 96.50	67.24

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
41 2,4-Dichlorophenol (continued)									
5.491	5.490	(0.978)	98	281600			5.73- 65.73	34.99	

42 1,2,4-Trichlorobenzene CAS #: 120-82-1									
5.557	5.555	(0.990)	180	999633	75.0000	76.6	80.00- 120.00	100.00	
5.557	5.555	(0.990)	182	965278			67.47- 127.47	96.56	
5.556	5.555	(0.990)	145	285392			0.00- 58.13	28.55	

* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.612	5.610	(1.000)	136	1167591	40.0000		80.00- 120.00	100.00	
5.612	5.610	(1.000)	68	67799			0.00- 35.51	5.81	

44 Naphthalene CAS #: 91-20-3									
5.632	5.630	(1.004)	128	2243435	75.0000	74.9	80.00- 120.00	100.00	
5.632	5.630	(1.004)	129	280633			0.00- 41.28	12.51	
5.632	5.630	(1.004)	127	334794			0.00- 43.27	14.92	

45 4-Chloroaniline CAS #: 106-47-8									
5.684	5.681	(1.013)	127	970300	75.0000	77.0	80.00- 120.00	100.00	
5.684	5.681	(1.013)	129	317770			2.39- 62.39	32.75	
5.683	5.681	(1.013)	65	387696			11.54- 71.54	39.96	

48 Hexachlorobutadiene CAS #: 87-68-3									
5.747	5.746	(1.024)	225	776312	75.0000	77.8	80.00- 120.00	100.00	
5.747	5.746	(1.024)	223	486334			32.02- 92.02	62.65	
5.747	5.746	(1.024)	227	512144			34.54- 94.54	65.97	

51 4-Chloro-3-methylphenol CAS #: 59-50-7									
6.160	6.158	(1.098)	107	764894	75.0000	76.1	80.00- 120.00	100.00	
6.160	6.158	(1.098)	144	202446			0.00- 55.95	26.47	
6.160	6.158	(1.098)	142	601071			44.47- 104.47	78.58	

53 2-Methylnaphthalene CAS #: 91-57-6									
6.291	6.289	(1.121)	142	1694768	75.0000	77.7	80.00- 120.00	100.00	
6.291	6.289	(1.121)	141	1459536			58.08- 118.08	86.12	

54 1-Methylnaphthalene CAS #: 90-12-0									
6.387	6.385	(1.138)	142	1522417	75.0000	76.9	80.00- 120.00	100.00	
6.388	6.385	(1.138)	141	1376540			61.72- 121.72	90.42	

55 Hexachlorocyclopentadiene CAS #: 77-47-4									
6.446	6.445	(0.882)	237	983078	75.0000	79.6	80.00- 120.00	100.00	
6.446	6.445	(0.882)	235	625563			33.37- 93.37	63.63	
6.447	6.445	(0.882)	272	139309			0.00- 43.74	14.17	

57 2,4,6-Trichlorophenol CAS #: 88-06-2									
6.621	6.620	(0.906)	196	759048	75.0000	77.9	80.00- 120.00	100.00	
6.621	6.620	(0.906)	198	731460			67.07- 127.07	96.37	
6.621	6.620	(0.906)	200	244092			1.30- 61.30	32.16	

58 2,4,5-Trichlorophenol CAS #: 95-95-4									
6.572	6.570	(0.899)	196	712784	75.0000	79.2	80.00- 120.00	100.00	
6.572	6.570	(0.899)	198	693944			69.46- 129.46	97.36	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
58 2,4,5-Trichlorophenol (continued)									
6.571	6.570	(0.899)	97	437868			34.72- 94.72	61.43	

\$ 59 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.646	6.644	(0.910)	172	2318218	75.0000	76.5	80.00- 120.00	100.00	
6.646	6.644	(0.910)	171	880072			5.03- 65.03	37.96	

62 2-Chloronaphthalene CAS #: 91-58-7									
6.765	6.763	(0.926)	162	1789563	75.0000	78.0	80.00- 120.00	100.00	
6.765	6.763	(0.926)	164	639764			4.20- 64.20	35.75	
6.764	6.763	(0.926)	127	706710			7.85- 67.85	39.49	

63 2-Nitroaniline CAS #: 88-74-4									
6.872	6.869	(0.940)	65	607614	75.0000	76.9	80.00- 120.00	100.00	
6.872	6.869	(0.941)	92	379019			30.25- 90.25	62.38	
6.873	6.869	(0.941)	138	520687			52.43- 112.43	85.69	

65 Dimethylphthalate CAS #: 131-11-3									
7.044	7.040	(0.964)	163	1974000	75.0000	74.9	80.00- 120.00	100.00	
7.044	7.040	(0.964)	194	119626			0.00- 35.55	6.06	
7.043	7.040	(0.964)	164	218814			0.00- 40.55	11.08	

68 Acenaphthylene CAS #: 208-96-8									
7.169	7.167	(0.981)	152	2596023	75.0000	76.5	80.00- 120.00	100.00	
7.169	7.167	(0.981)	151	559856			0.00- 50.50	21.57	
7.169	7.167	(0.981)	153	384668			0.00- 43.76	14.82	

67 2,6-Dinitrotoluene CAS #: 606-20-2									
7.104	7.100	(0.972)	165	472468	75.0000	79.3	80.00- 120.00	100.00	
7.103	7.100	(0.972)	89	364474			49.02- 109.02	77.14	
7.103	7.100	(0.972)	63	347360			44.86- 104.86	73.52	

69 3-Nitroaniline CAS #: 99-09-2									
7.276	7.271	(0.996)	138	407889	75.0000	77.1	80.00- 120.00	100.00	
7.275	7.271	(0.996)	108	44275			0.00- 41.32	10.85	
7.275	7.271	(0.996)	92	521367			100.05- 160.05	127.82	

* 70 Acenaphthene-d10 CAS #: 15067-26-2									
7.307	7.305	(1.000)	164	782749	40.0000		80.00- 120.00	100.00	
7.307	7.305	(1.000)	162	755684			64.73- 124.73	96.54	
7.307	7.305	(1.000)	160	336873			12.46- 72.46	43.04	

71 Acenaphthene CAS #: 83-32-9									
7.340	7.338	(1.004)	154	1624831	75.0000	78.9	80.00- 120.00	100.00	
7.340	7.338	(1.005)	153	1751192			78.46- 138.46	107.78	
7.340	7.338	(1.004)	152	877394			23.44- 83.44	54.00	

72 2,4-Dinitrophenol CAS #: 51-28-5									
7.372	7.369	(1.009)	184	315067	75.0000	75.3	80.00- 120.00	100.00	
7.372	7.369	(1.009)	63	160926			48.07- 108.07	51.08	
7.372	7.369	(1.009)	154	214083			39.61- 99.61	67.95	

74 4-Nitrophenol CAS #: 100-02-7									
7.478	7.476	(1.023)	109	451545	75.0000	78.5	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
74 4-Nitrophenol (continued)									
7.478	7.476 (1.023)		139	294848			26.63- 86.63	65.30	
7.478	7.476 (1.023)		65	502405			81.59- 141.59	111.26	

75 Dibenzofuran CAS #: 132-64-9									
7.508	7.506 (1.028)		168	2553443	75.0000	76.2	80.00- 120.00	100.00	
7.508	7.506 (1.028)		139	1124933			12.75- 72.75	44.06	

76 2,4-Dinitrotoluene CAS #: 121-14-2									
7.498	7.494 (1.026)		165	669843	75.0000	80.2	80.00- 120.00	100.00	
7.498	7.494 (1.026)		63	699302			82.10- 142.10	104.40	
7.498	7.494 (1.026)		89	664932			72.08- 132.08	99.27	

80 Diethylphthalate CAS #: 84-66-2									
7.733	7.729 (1.058)		149	1823161	75.0000	74.9	80.00- 120.00	100.00	
7.733	7.729 (1.058)		177	442086			0.00- 53.36	24.25	
7.732	7.729 (1.058)		150	235803			0.00- 42.43	12.93	

81 Fluorene CAS #: 86-73-7									
7.843	7.841 (1.073)		166	2351627	75.0000	81.0	80.00- 120.00	100.00	
7.843	7.841 (1.073)		165	2198189			65.55- 125.55	93.48	
7.843	7.841 (1.073)		167	360555			0.00- 44.15	15.33	

82 4-Chlorophenyl-phenylether CAS #: 7005-72-3									
7.840	7.838 (1.073)		204	1433760	75.0000	82.4	80.00- 120.00	100.00	
7.840	7.838 (1.073)		206	503984			4.27- 64.27	35.15	
7.839	7.838 (1.073)		141	789742			24.97- 84.97	55.08	

84 4-Nitroaniline CAS #: 100-01-6									
7.882	7.874 (1.079)		138	348432	75.0000	76.0	80.00- 120.00	100.00	
7.882	7.874 (1.079)		92	229530			38.02- 98.02	65.88	
7.882	7.874 (1.079)		108	514441			124.92- 184.92	147.64	

85 4,6-Dinitro-2-methylphenol CAS #: 534-52-1									
7.902	7.896 (0.902)		198	462929	75.0000	74.1	80.00- 120.00	100.00	
7.900	7.896 (0.902)		51	173239			6.77- 66.77	37.42	
7.901	7.896 (0.902)		105	179323			8.50- 68.50	38.74	

86 N-Nitrosodiphenylamine CAS #: 86-30-6									
7.961	7.956 (0.909)		169	1346688	75.0000	77.4	80.00- 120.00	100.00	
7.961	7.956 (0.909)		168	897851			36.61- 96.61	66.67	
7.961	7.956 (0.909)		167	484131			4.62- 64.62	35.95	

87 1,2-Diphenylhydrazine CAS #: 122-66-7									
7.996	7.992 (1.094)		77	2062543	75.0000	73.7	80.00- 120.00	100.00 (M)	
7.997	7.992 (1.094)		105	295597			0.00- 43.34	14.33	
7.998	7.992 (1.095)		182	571505			0.00- 56.11	27.71	

88 2,4,6-Tribromophenol (SURR) CAS #: 118-79-6									
8.087	8.083 (1.107)		330	877712	150.000	160	80.00- 120.00	100.00	
8.087	8.083 (1.107)		332	867986			66.43- 126.43	98.89	
8.084	8.083 (1.106)		141	344958			9.24- 69.24	39.30	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
====	=====	=====	=====	=====	=====	=====	=====	=====
93 4-Bromophenylphenylether					CAS #: 101-55-3			
8.320	8.318	(0.949)	248	793487	75.0000	78.7	80.00- 120.00	100.00
8.320	8.318	(0.949)	250	778746			67.36- 127.36	98.14
8.318	8.318	(0.949)	141	532858			35.77- 95.77	67.15

94 Hexachlorobenzene					CAS #: 118-74-1			
8.389	8.387	(0.957)	284	923550	75.0000	79.6	80.00- 120.00	100.00
8.387	8.387	(0.957)	142	310302			2.39- 62.39	33.60
8.388	8.387	(0.957)	249	289382			0.06- 60.06	31.33

96 Pentachlorophenol					CAS #: 87-86-5			
8.586	8.585	(0.980)	266	546128	75.0000	80.1	80.00- 120.00	100.00
8.587	8.585	(0.980)	264	346479			33.70- 93.70	63.44
8.587	8.585	(0.980)	268	358493			35.26- 95.26	65.64

* 100 Phenanthrene-d10					CAS #: 1517-22-2			
8.762	8.761	(1.000)	188	1380309	40.0000		80.00- 120.00	100.00
8.761	8.761	(1.000)	94	86706			0.00- 36.35	6.28
8.761	8.761	(1.000)	80	100931			0.00- 37.82	7.31

101 Phenanthrene					CAS #: 85-01-8			
8.787	8.785	(1.003)	178	2677572	75.0000	75.3	80.00- 120.00	100.00
8.787	8.785	(1.003)	179	459530			0.00- 46.33	17.16
8.787	8.785	(1.003)	176	575726			0.00- 50.11	21.50

103 Anthracene					CAS #: 120-12-7			
8.836	8.835	(1.008)	178	2667185	75.0000	75.3	80.00- 120.00	100.00
8.836	8.835	(1.008)	179	470336			0.00- 45.97	17.63
8.836	8.835	(1.008)	176	555606			0.00- 49.80	20.83

104 Carbazole					CAS #: 86-74-8			
8.998	8.996	(1.027)	167	2218341	75.0000	75.2	80.00- 120.00	100.00
8.998	8.996	(1.027)	139	319887			0.00- 43.89	14.42
8.998	8.996	(1.027)	83	160833			0.00- 36.17	7.25

105 Di-n-butylphthalate					CAS #: 84-74-2			
9.328	9.327	(1.065)	149	2860549	75.0000	76.8	80.00- 120.00	100.00
9.328	9.327	(1.065)	150	322766			0.00- 40.04	11.28
9.328	9.327	(1.065)	104	242347			0.00- 37.79	8.47

109 Fluoranthene					CAS #: 206-44-0			
9.955	9.953	(1.136)	202	3050937	75.0000	74.8	80.00- 120.00	100.00
9.954	9.953	(1.136)	101	243991			0.00- 36.69	8.00
9.955	9.953	(1.136)	203	617712			0.00- 48.82	20.25

111 Pyrene					CAS #: 129-00-0			
10.179	10.176	(0.896)	202	3259005	75.0000	66.2	80.00- 120.00	100.00
10.179	10.176	(0.896)	200	787867			0.00- 51.88	24.18
10.179	10.176	(0.896)	203	691881			0.00- 49.33	21.23

\$ 112 Terphenyl-d14 (SURR)					CAS #: 1718-51-0			
10.324	10.322	(0.909)	244	3113831	75.0000	66.7	80.00- 120.00	100.00
10.323	10.322	(0.909)	122	244464			0.00- 36.72	7.85

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 112 Terphenyl-d14 (SURR) (continued)								
10.324	10.322	(0.909)	212	276486			0.00- 38.06	8.88

118 Butylbenzylphthalate						CAS #: 85-68-7		
10.800	10.798	(0.951)	149	1566818	75.0000	73.5	80.00- 120.00	100.00
10.800	10.798	(0.951)	91	1264991			51.57- 111.57	80.74
10.801	10.798	(0.951)	206	420767			0.00- 55.14	26.85

120 Benzo[a]anthracene						CAS #: 56-55-3		
11.351	11.348	(0.999)	228	4345022	75.0000	69.9	80.00- 120.00	100.00
11.351	11.348	(0.999)	229	1084134			0.00- 51.57	24.95
11.351	11.348	(0.999)	226	1412402			0.00- 58.54	32.51

* 121 Chrysene-d12						CAS #: 1719-03-5		
11.361	11.359	(1.000)	240	2475600	40.0000		80.00- 120.00	100.00
11.359	11.359	(1.000)	120	164799			0.00- 36.38	6.66
11.361	11.359	(1.000)	236	675537			0.00- 57.06	27.29

123 Chrysene						CAS #: 218-01-9		
11.389	11.384	(1.002)	228	3630272	75.0000	66.6	80.00- 120.00	100.00
11.389	11.384	(1.002)	226	1260525			1.12- 61.12	34.72
11.389	11.384	(1.002)	229	885273			0.00- 51.74	24.39

124 Bis-2-Ethylhexylphthalate						CAS #: 117-81-7		
11.353	11.350	(0.999)	149	2822016	75.0000	76.6	80.00- 120.00	100.00
11.353	11.350	(0.999)	167	1005851			2.07- 62.07	35.64
11.354	11.350	(0.999)	279	309183			0.00- 39.24	10.96

125 Di-n-octylphthalate						CAS #: 117-84-0		
11.952	11.948	(0.942)	149	3402058	75.0000	78.1	80.00- 120.00	100.00
11.952	11.948	(0.942)	167	72646			0.00- 31.74	2.14
11.951	11.948	(0.942)	43	302712			0.00- 38.21	8.90

127 Benzo[b]fluoranthene						CAS #: 205-99-2		
12.341	12.333	(0.973)	252	4054432	75.0000	75.5	80.00- 120.00	100.00
12.341	12.333	(0.973)	253	1049725			0.00- 54.02	25.89
12.340	12.333	(0.973)	125	240202			0.00- 34.93	5.92

128 Benzo[k]fluoranthene						CAS #: 207-08-9		
12.367	12.359	(0.975)	252	3930594	75.0000	72.8	80.00- 120.00	100.00
12.367	12.359	(0.975)	253	1088162			0.00- 53.57	27.68
12.366	12.359	(0.975)	125	250013			0.00- 35.26	6.36

129 Benzo[a]pyrene						CAS #: 50-32-8		
12.638	12.630	(0.996)	252	3931682	75.0000	75.0	80.00- 120.00	100.00
12.638	12.630	(0.996)	253	997822			0.00- 54.04	25.38
12.637	12.630	(0.996)	125	251043			0.00- 35.52	6.39

* 130 Perylene-d12						CAS #: 1520-96-3		
12.688	12.682	(1.000)	264	2020258	40.0000		80.00- 120.00	100.00
12.688	12.682	(1.000)	260	503537			0.00- 54.80	24.92
12.688	12.682	(1.000)	265	473918			0.00- 53.39	23.46

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
133 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5				
13.762	13.749	(1.085)	276	4903854	75.0000	75.0	80.00- 120.00	100.00	
13.763	13.749	(1.085)	138	704005			0.00- 42.48	14.36	
13.763	13.749	(1.085)	277	1370498			0.00- 56.82	27.95	

134 Dibenz[a,h]anthracene					CAS #: 53-70-3				
13.768	13.755	(1.085)	278	4354019	75.0000	76.3	80.00- 120.00	100.00	
13.767	13.755	(1.085)	139	393933			0.00- 37.70	9.05	
13.768	13.755	(1.085)	279	1169748			0.00- 54.57	26.87	

135 Benzo[g,h,i]perylene					CAS #: 191-24-2				
14.069	14.053	(1.109)	276	3511548	75.0000	70.3	80.00- 120.00	100.00	
14.068	14.053	(1.109)	138	375067			0.00- 40.01	10.68	
14.069	14.053	(1.109)	277	888853			0.00- 54.80	25.31	

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

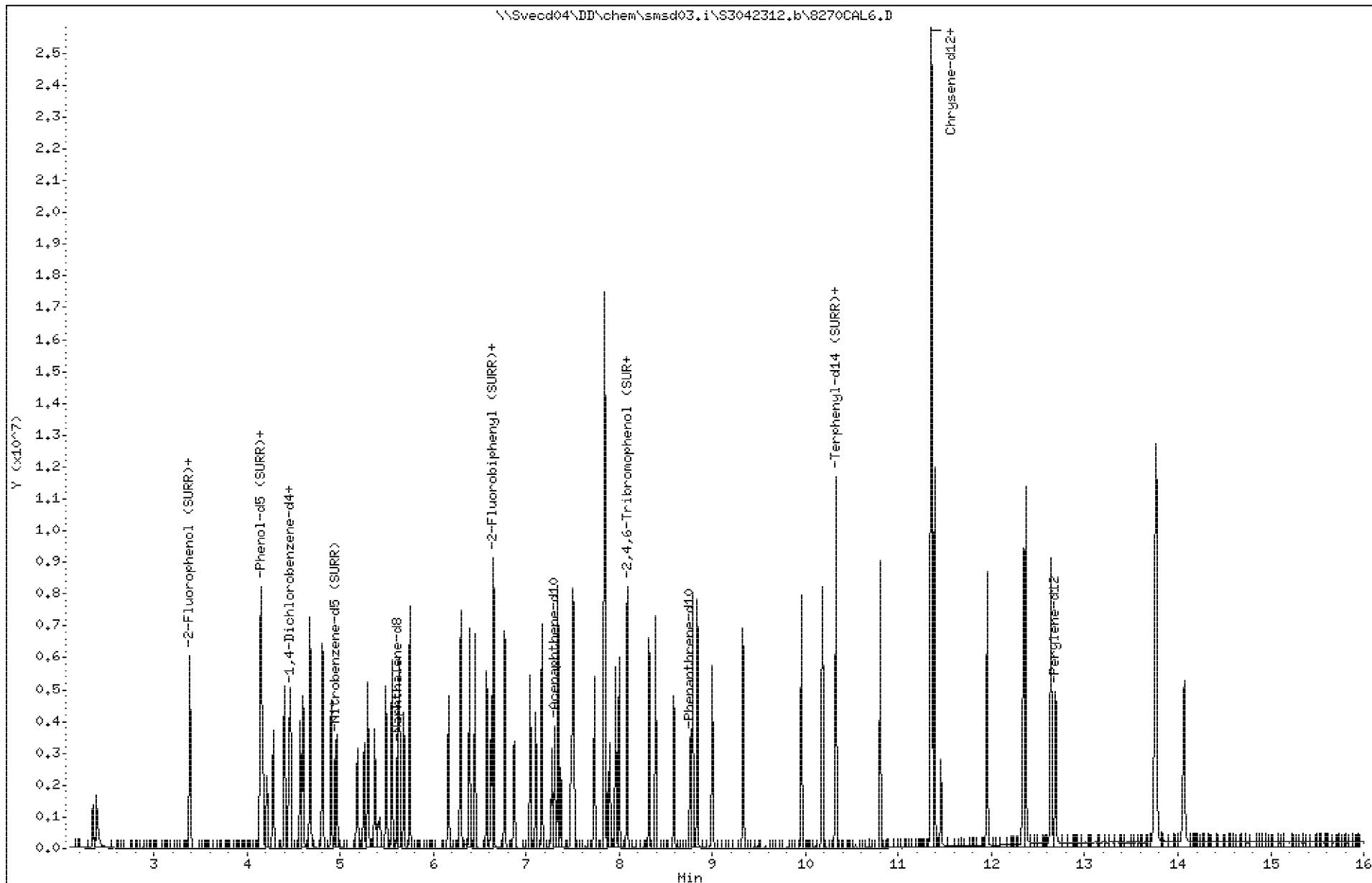
Sample Info: 45922

Purge Volume: 1000.0

Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

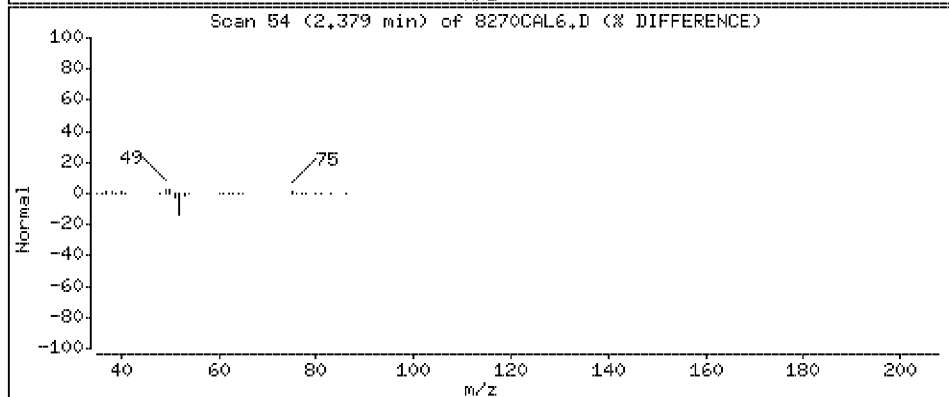
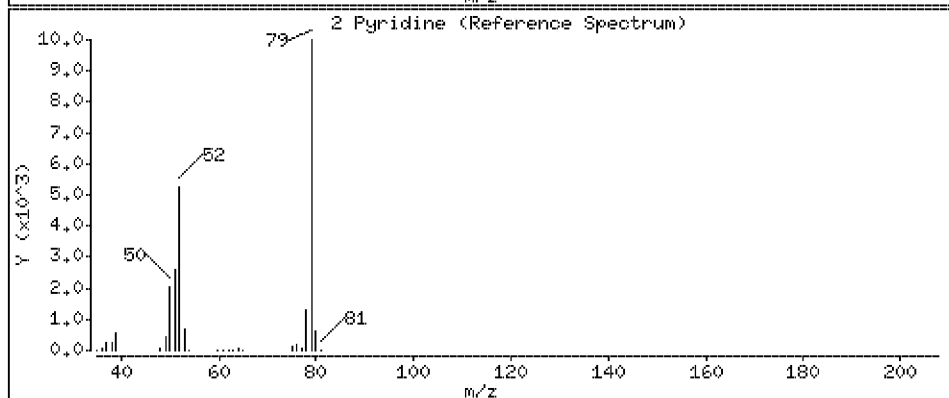
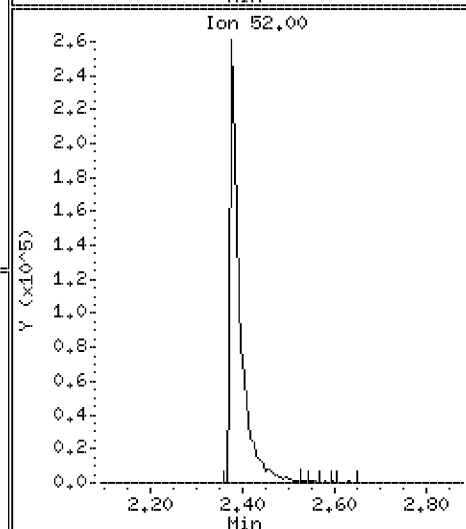
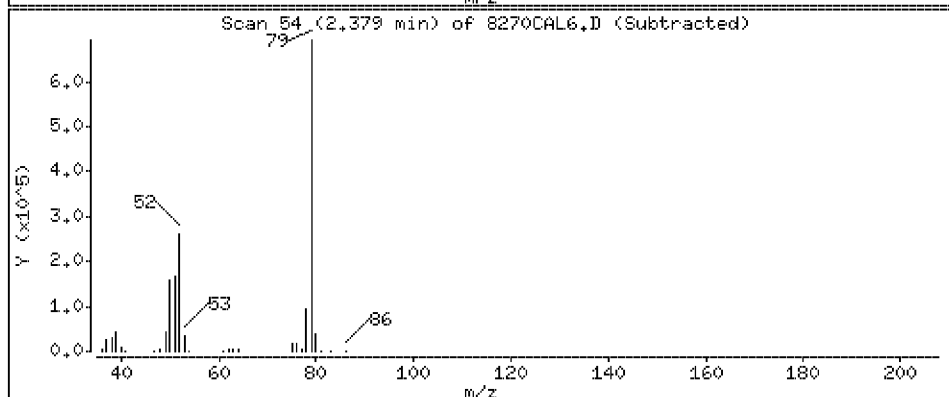
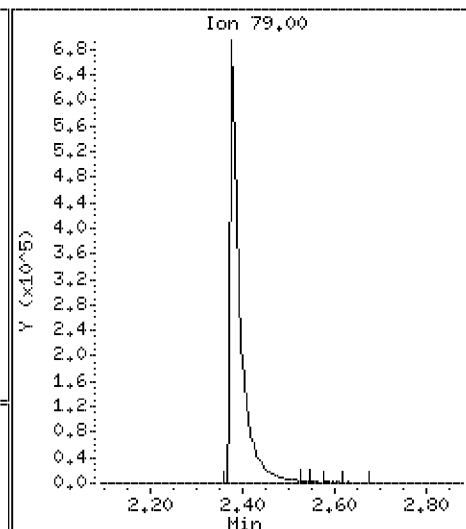
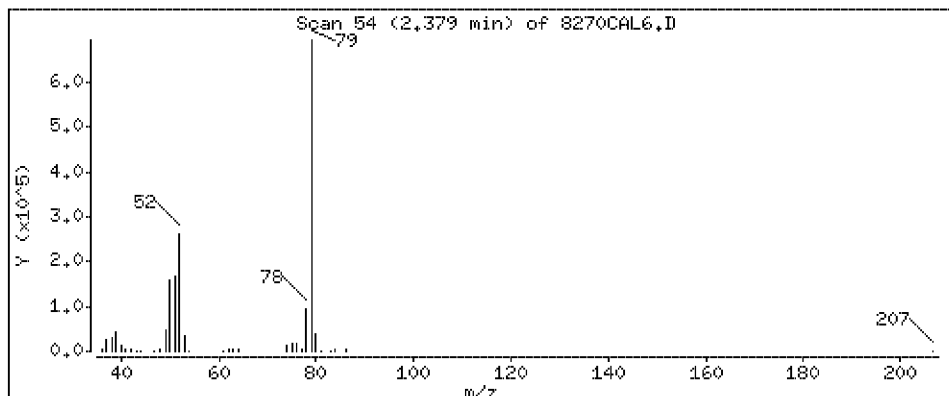
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

2 Pyridine

Concentration: 76.2 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

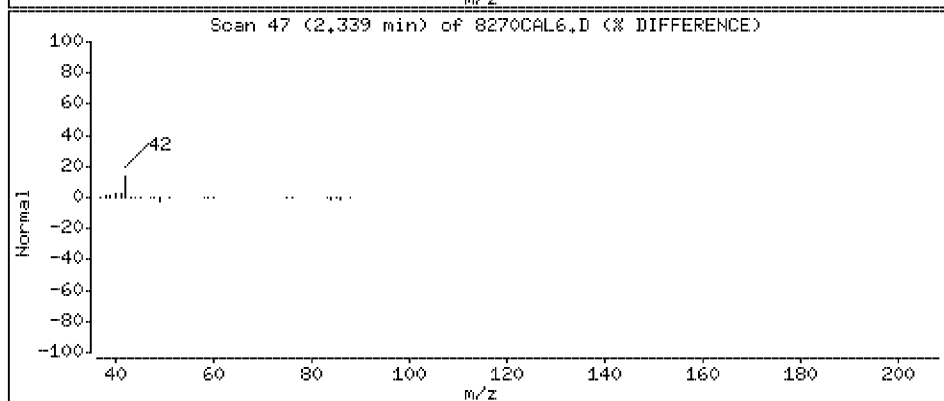
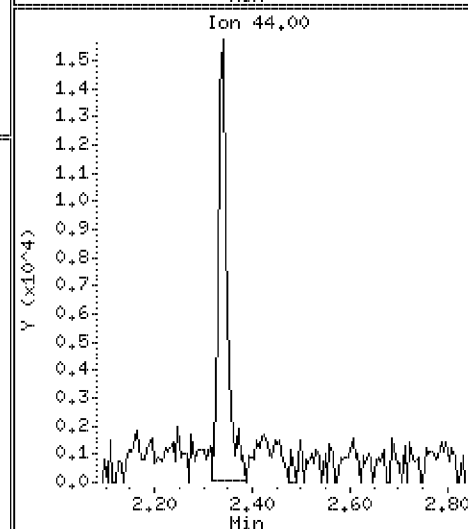
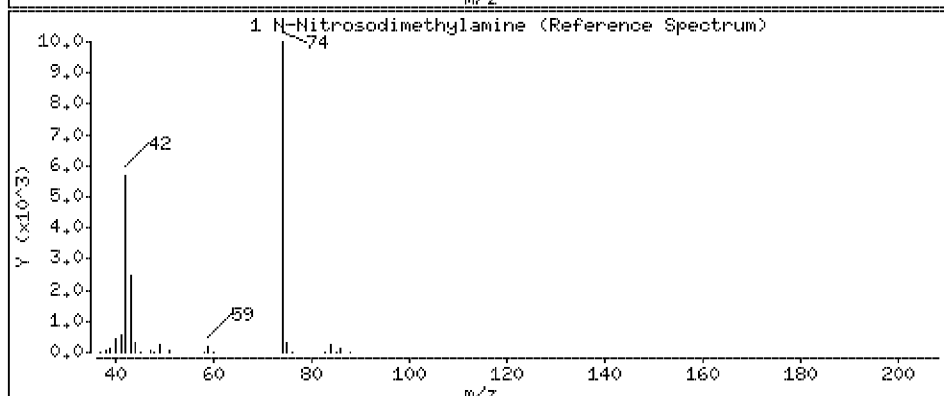
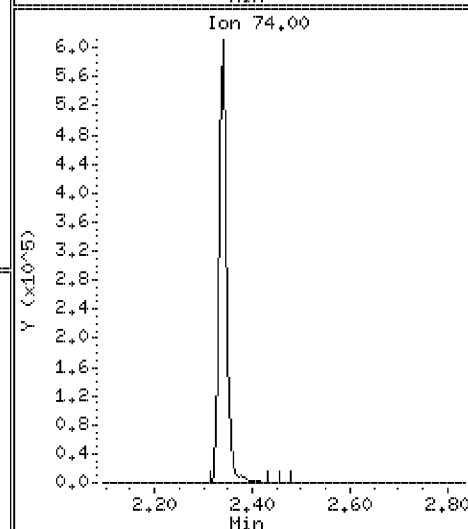
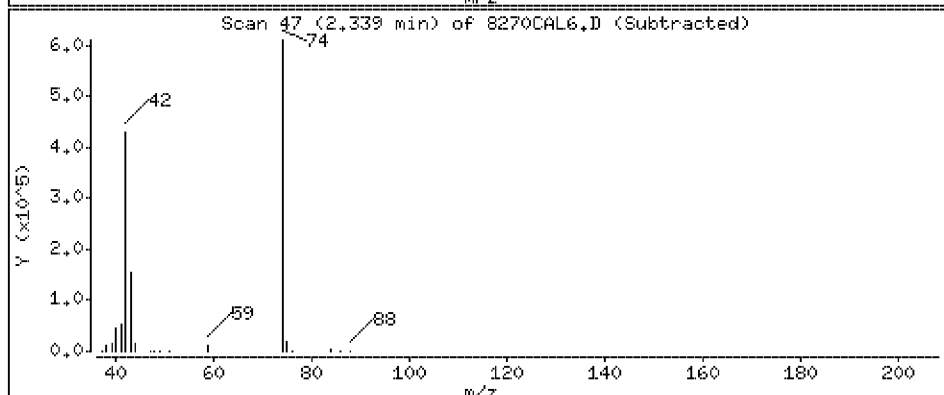
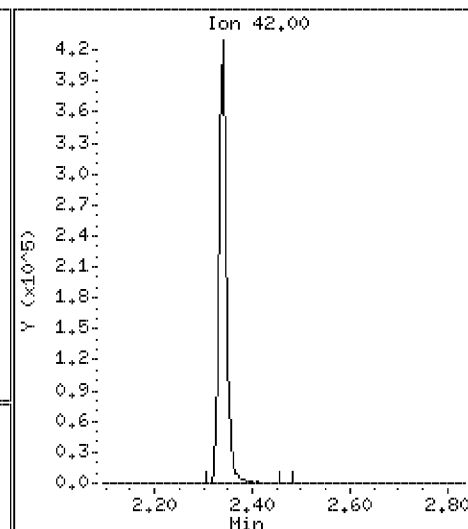
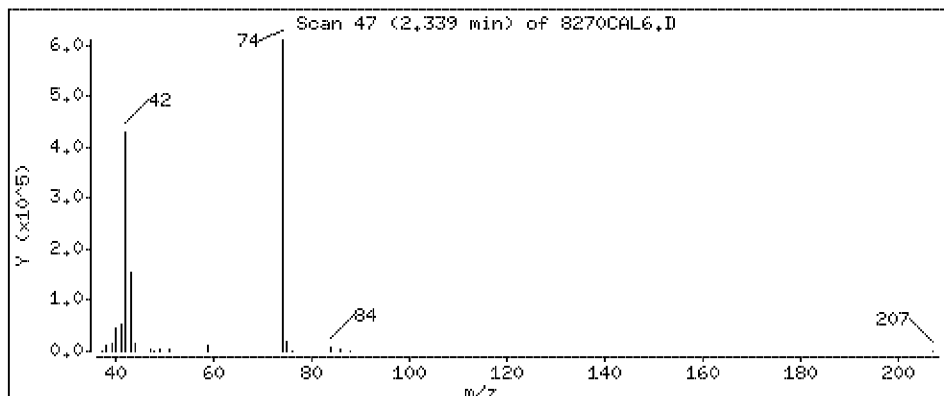
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

1 N-Nitrosodimethylamine

Concentration: 72.8 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

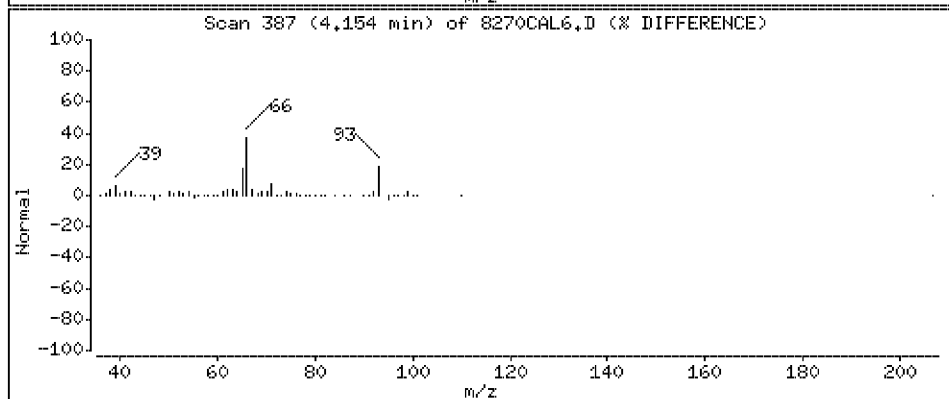
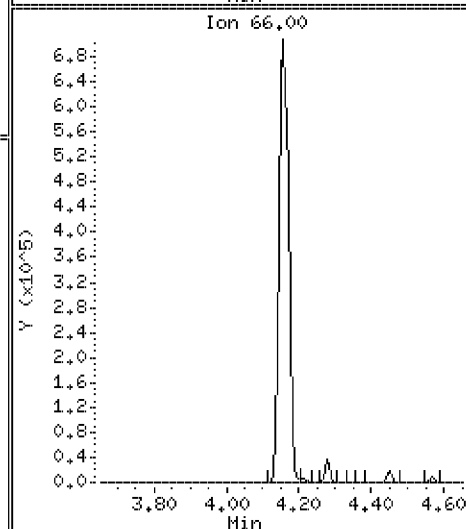
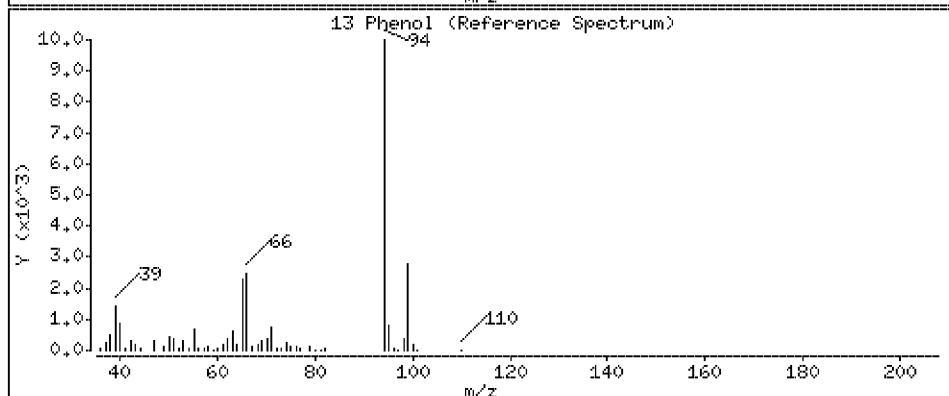
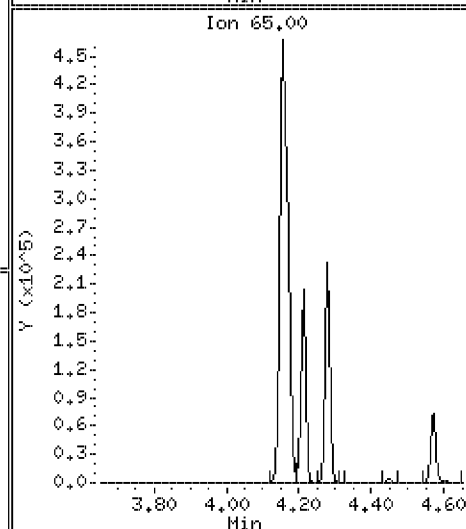
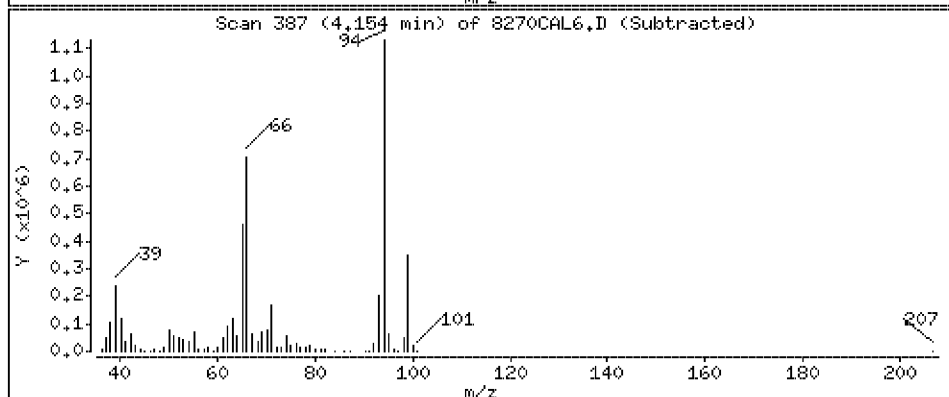
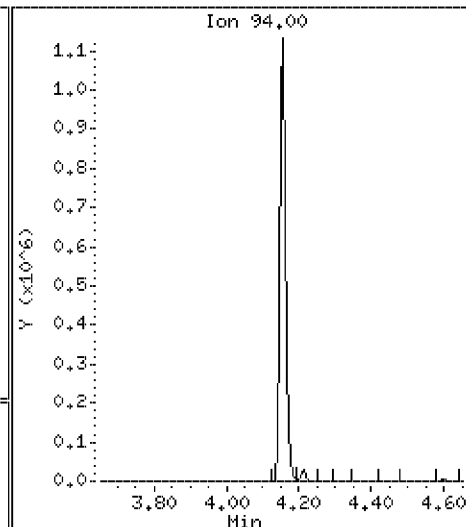
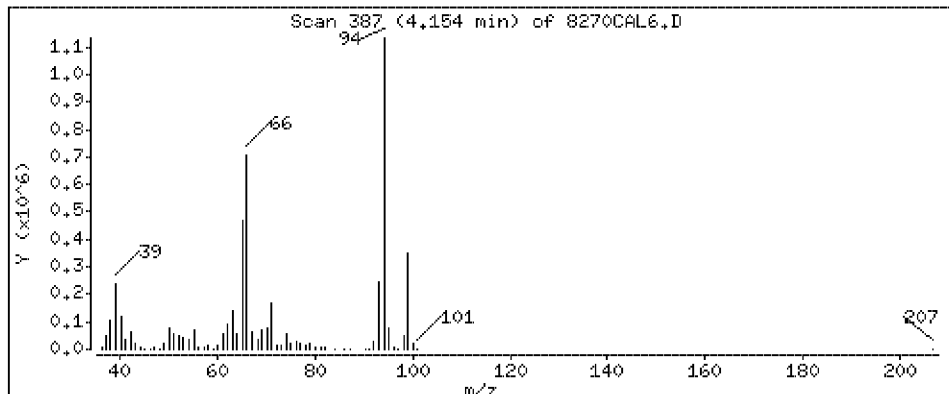
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

13 Phenol

Concentration: 79.1 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

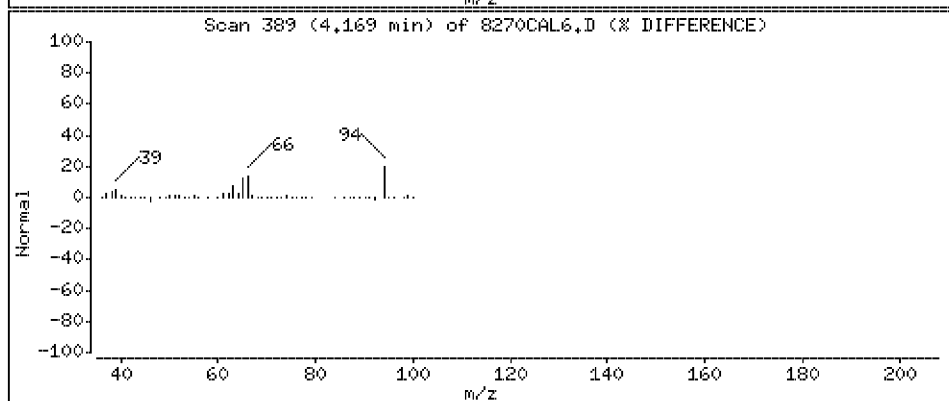
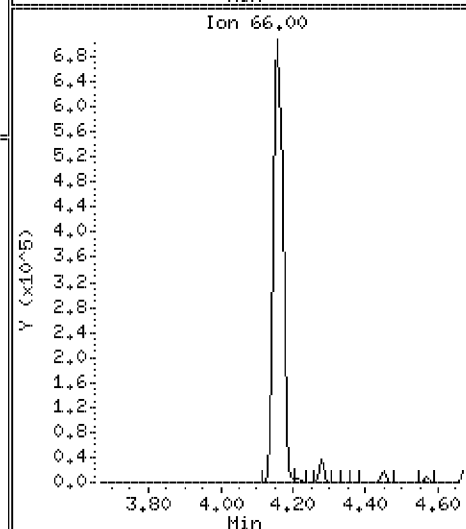
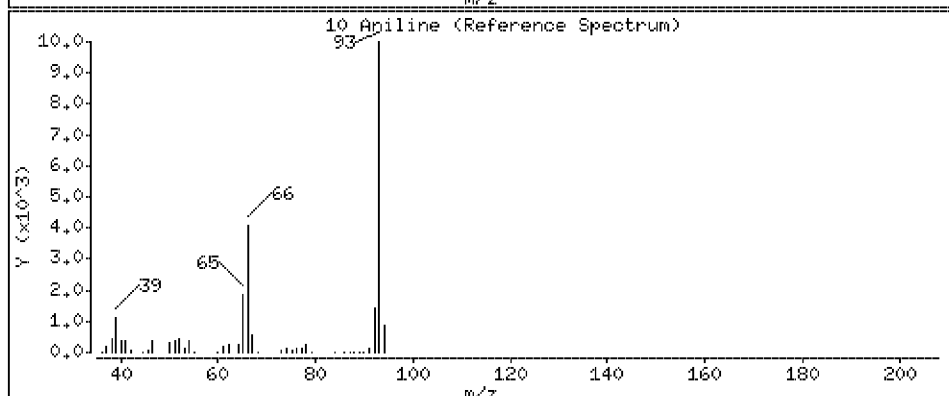
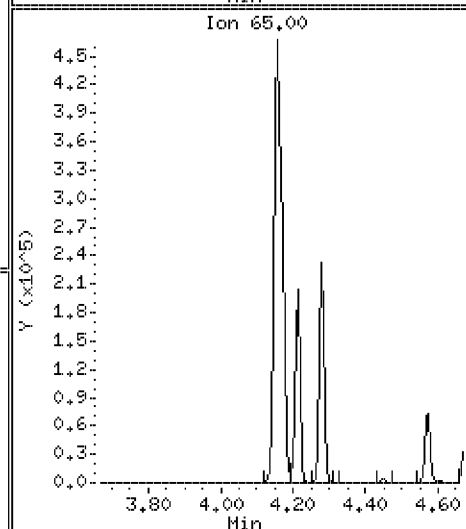
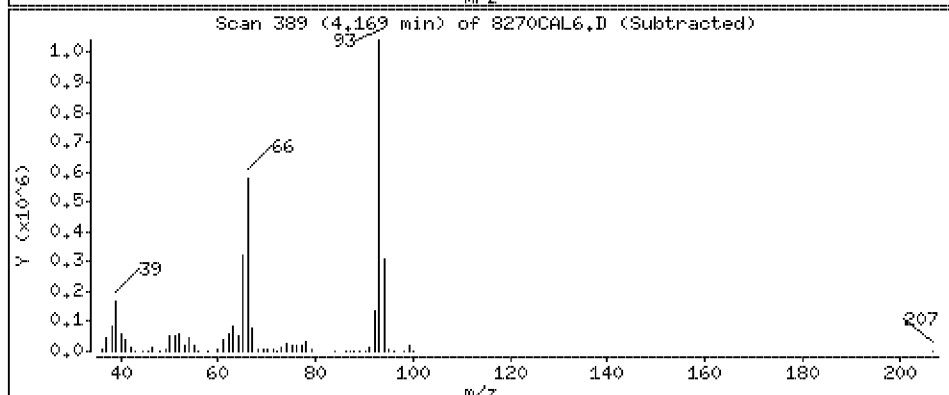
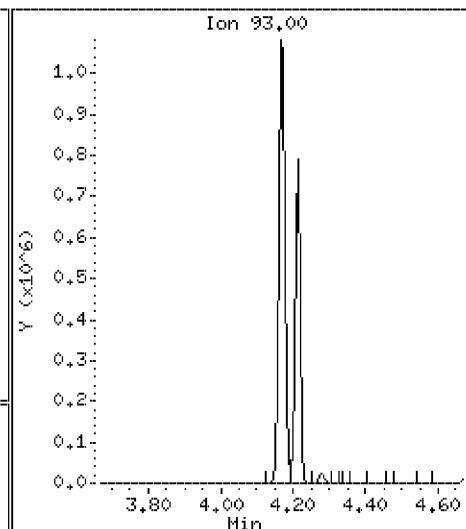
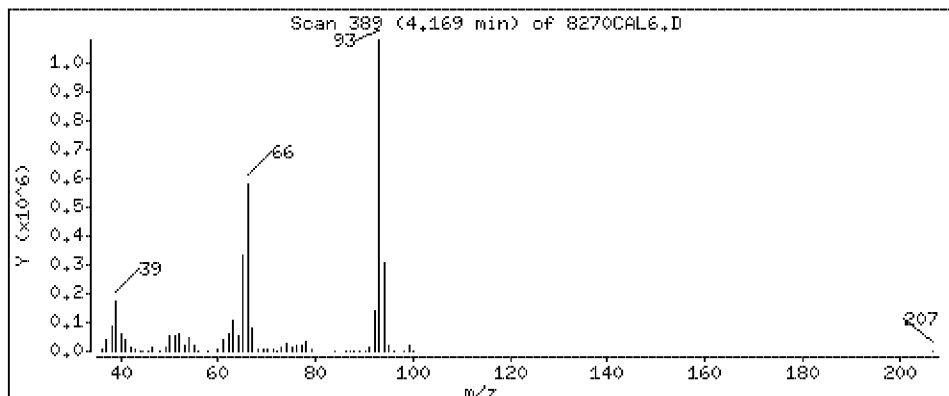
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

10 Aniline

Concentration: 75.7 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

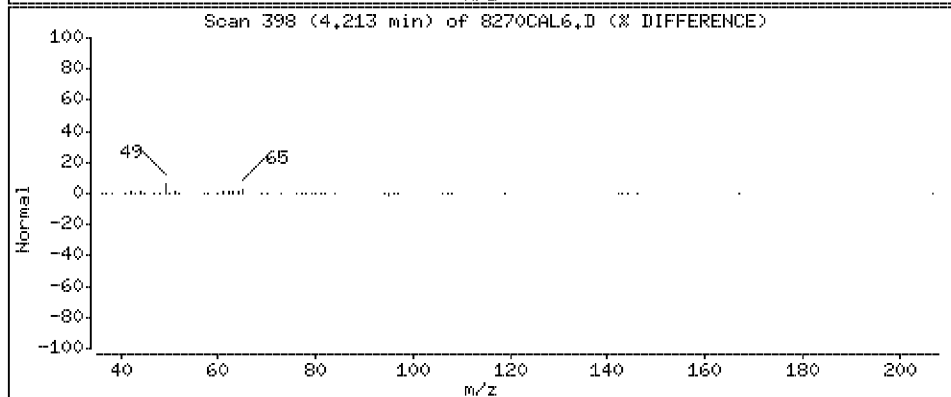
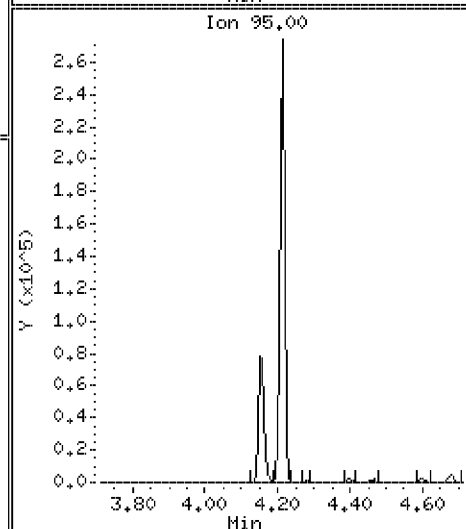
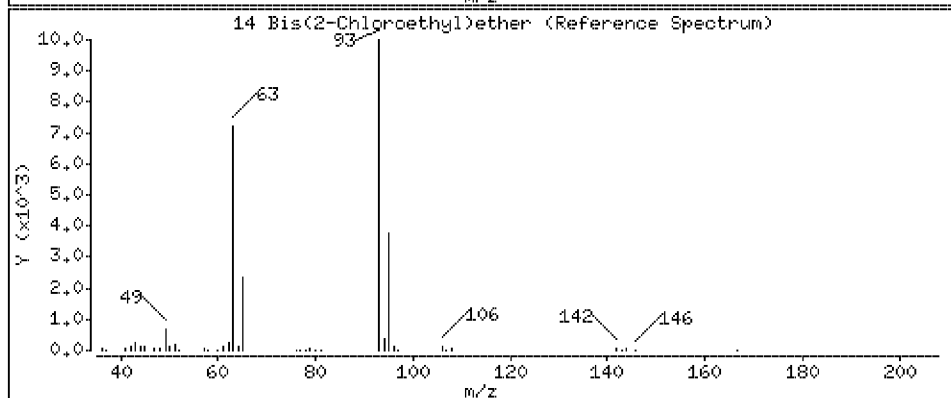
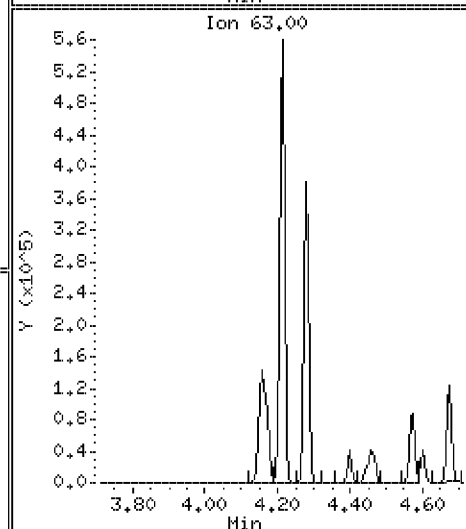
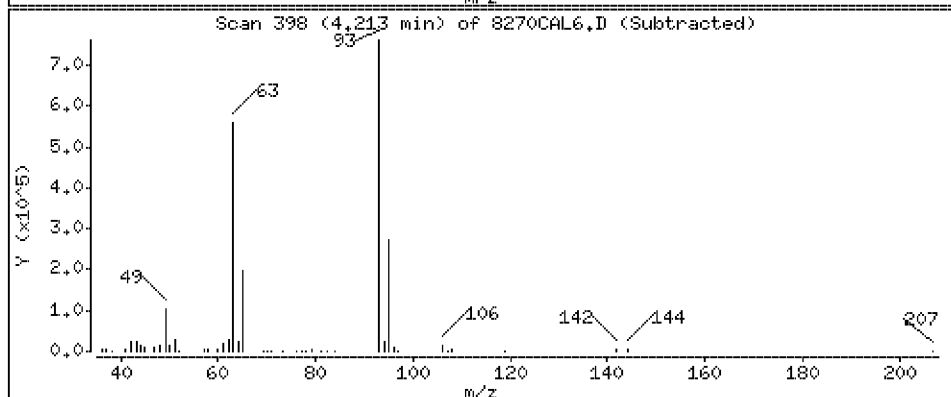
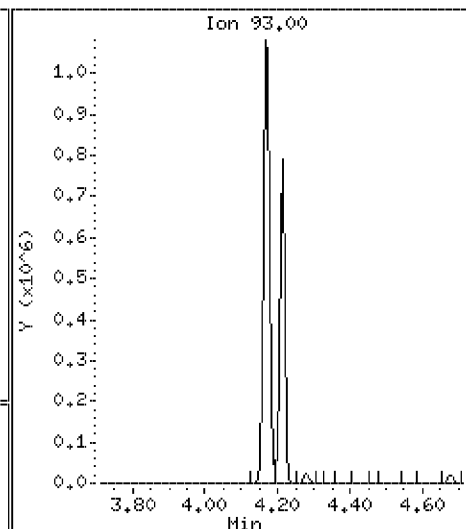
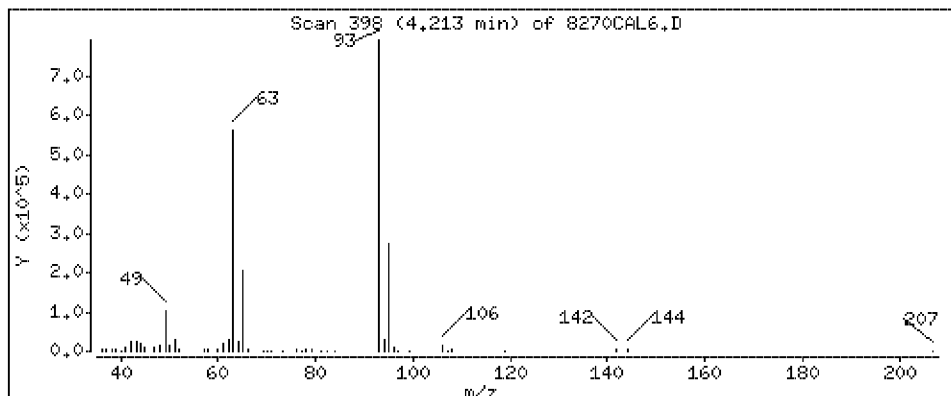
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

14 Bis(2-Chloroethyl)ether

Concentration: 75.1 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

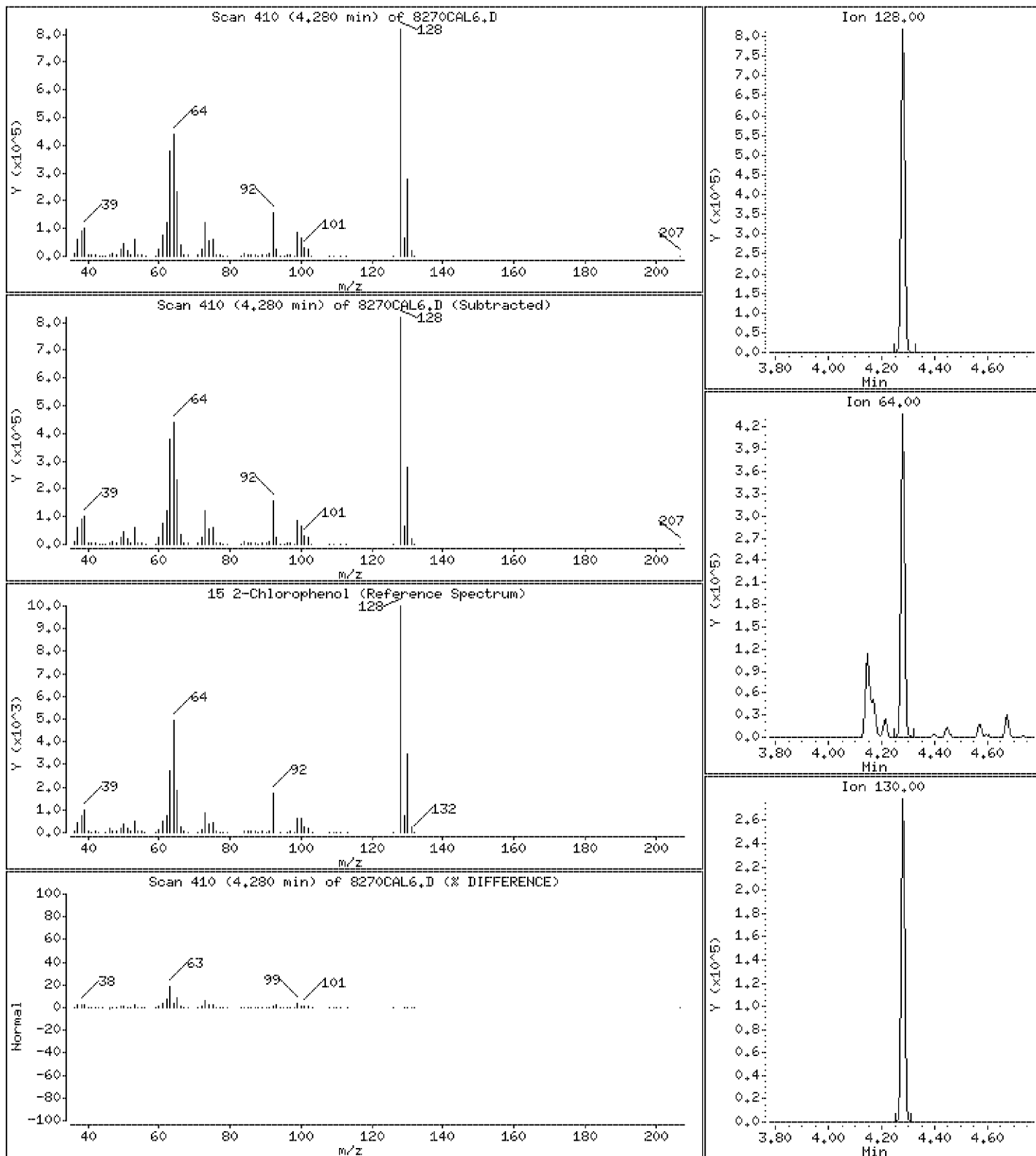
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

15 2-Chlorophenol

Concentration: 76.2 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

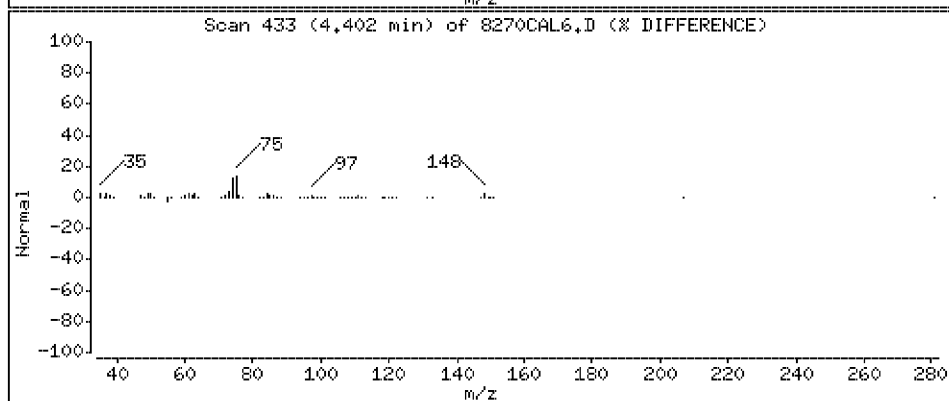
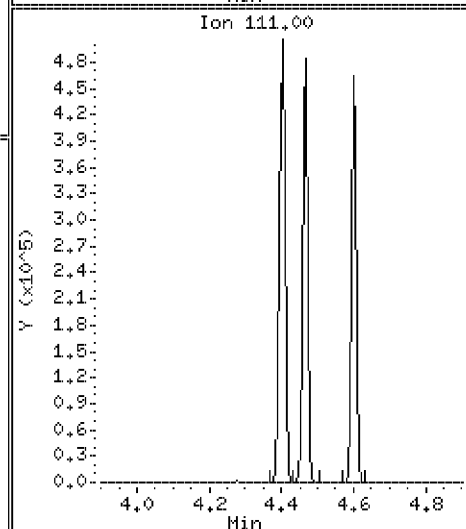
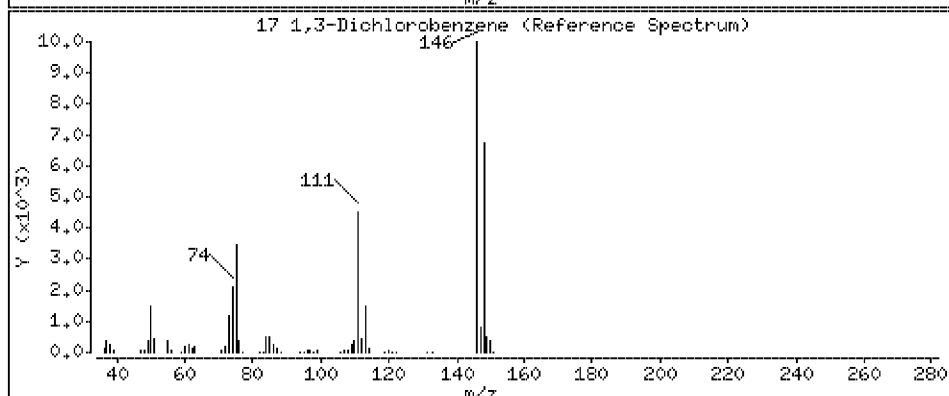
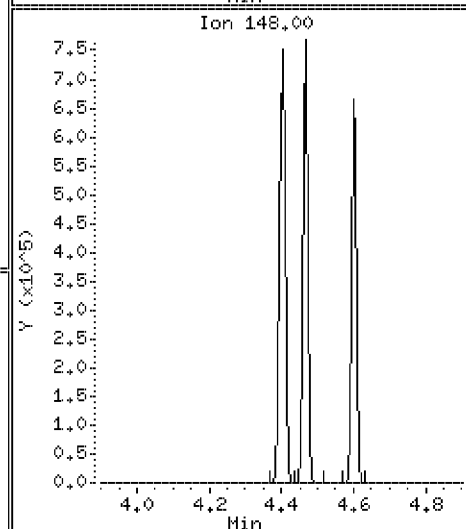
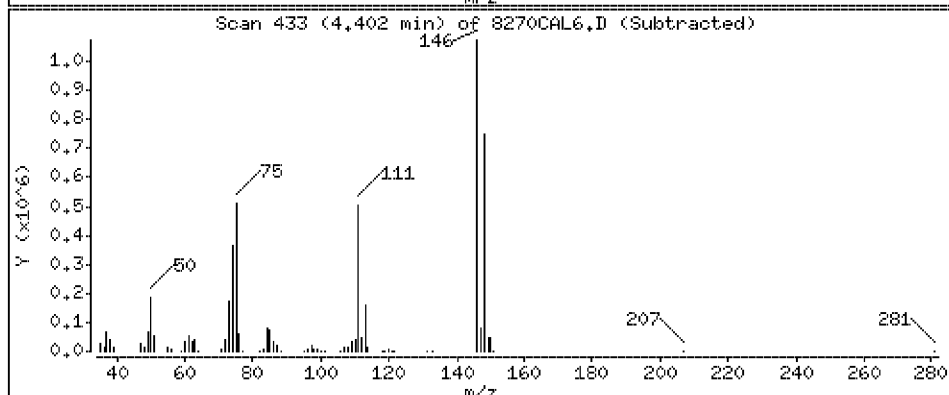
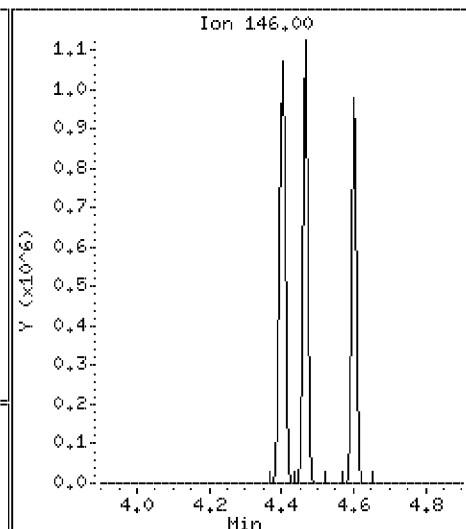
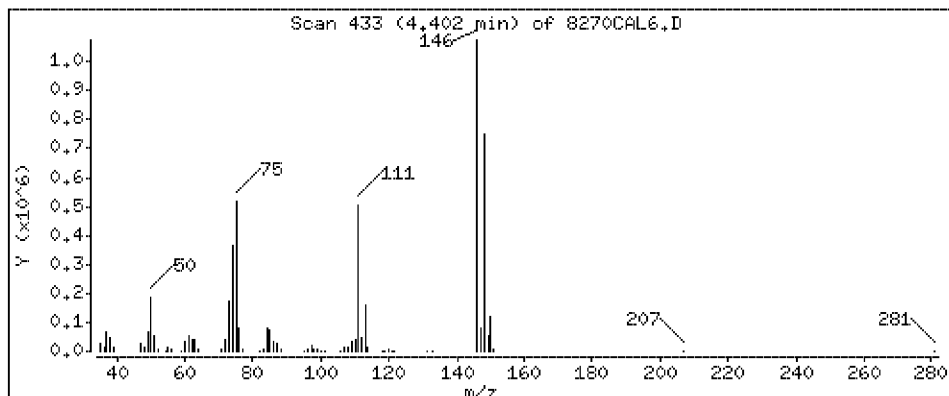
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

17 1,3-Dichlorobenzene

Concentration: 76.0 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

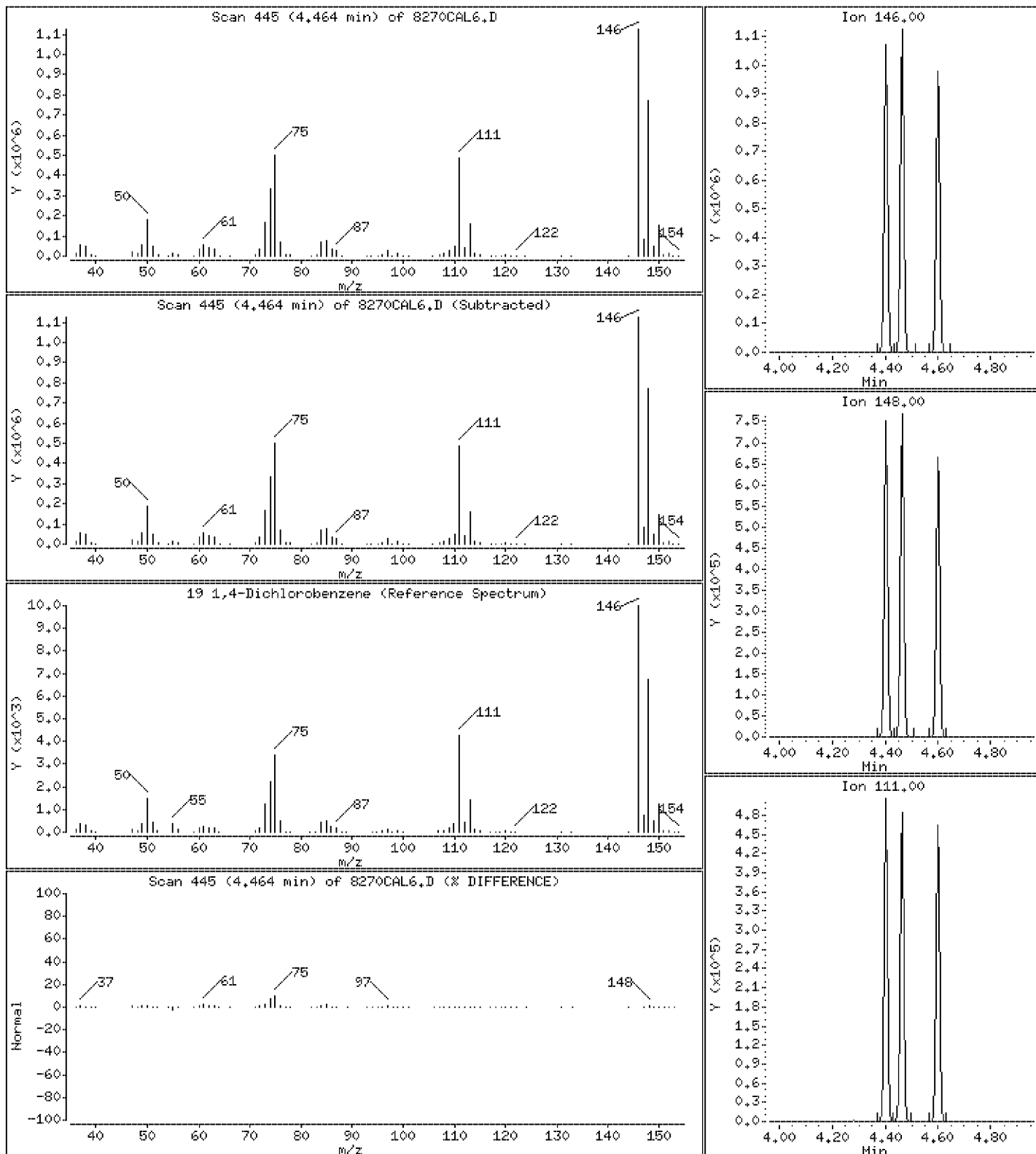
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

19 1,4-Dichlorobenzene

Concentration: 76.1 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

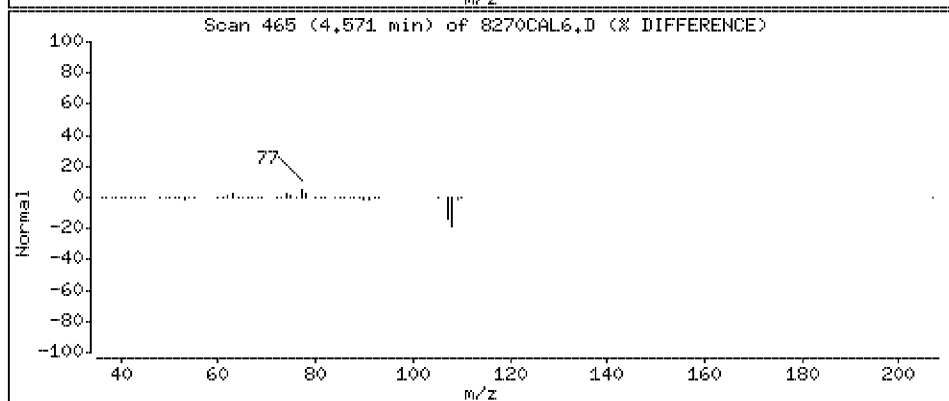
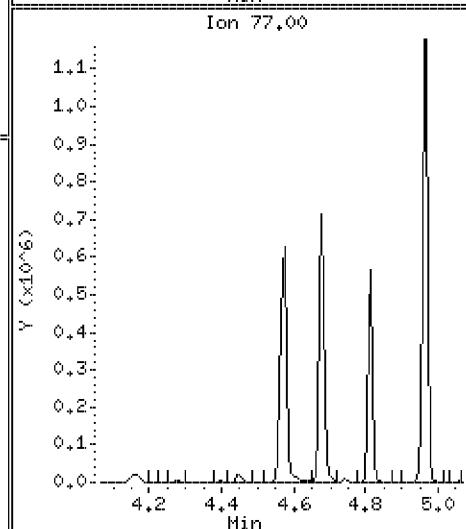
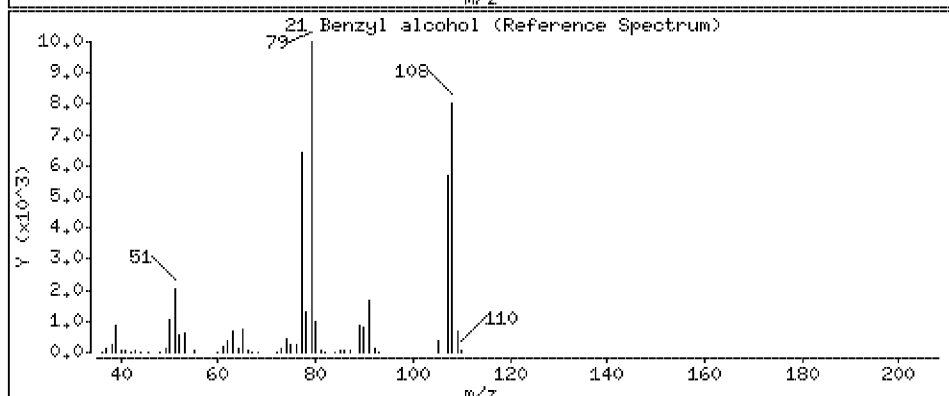
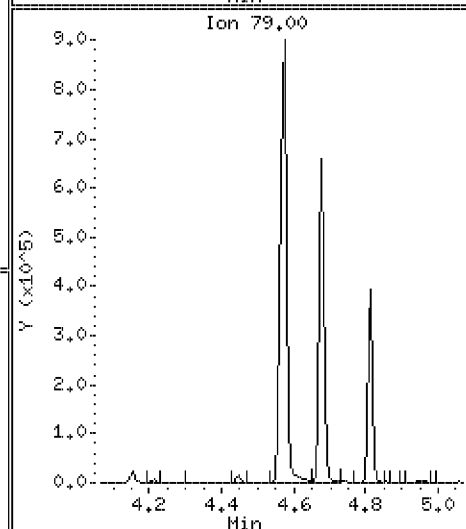
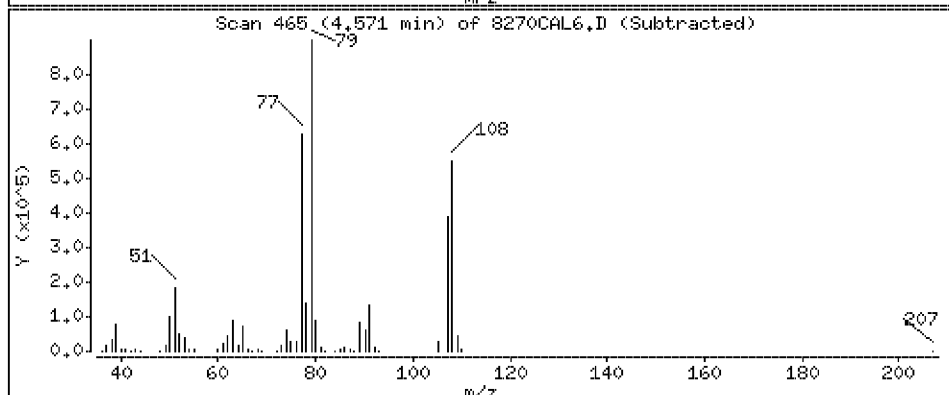
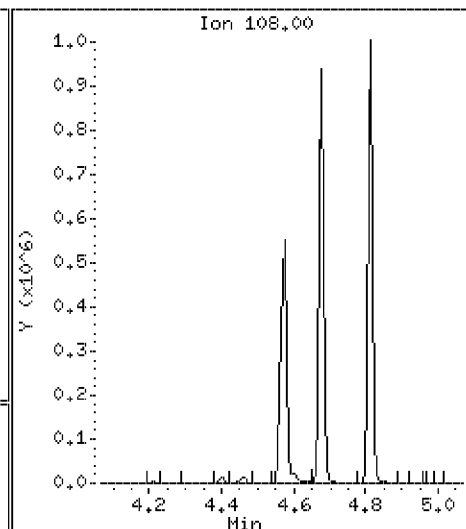
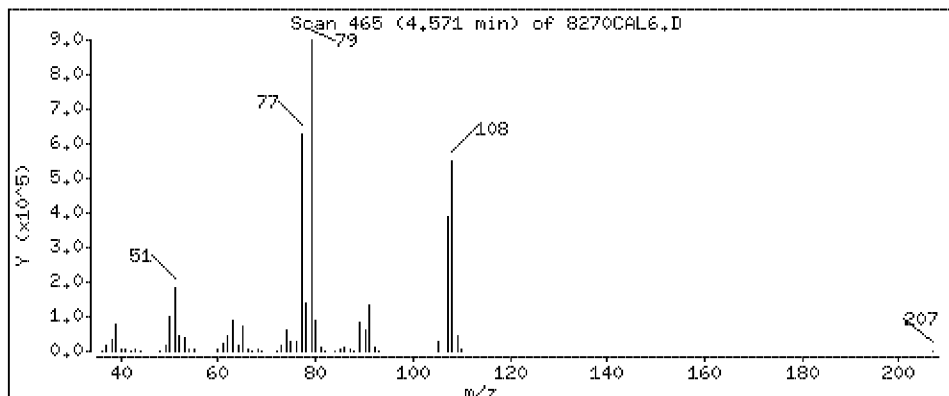
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

21 Benzyl alcohol

Concentration: 79.3 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

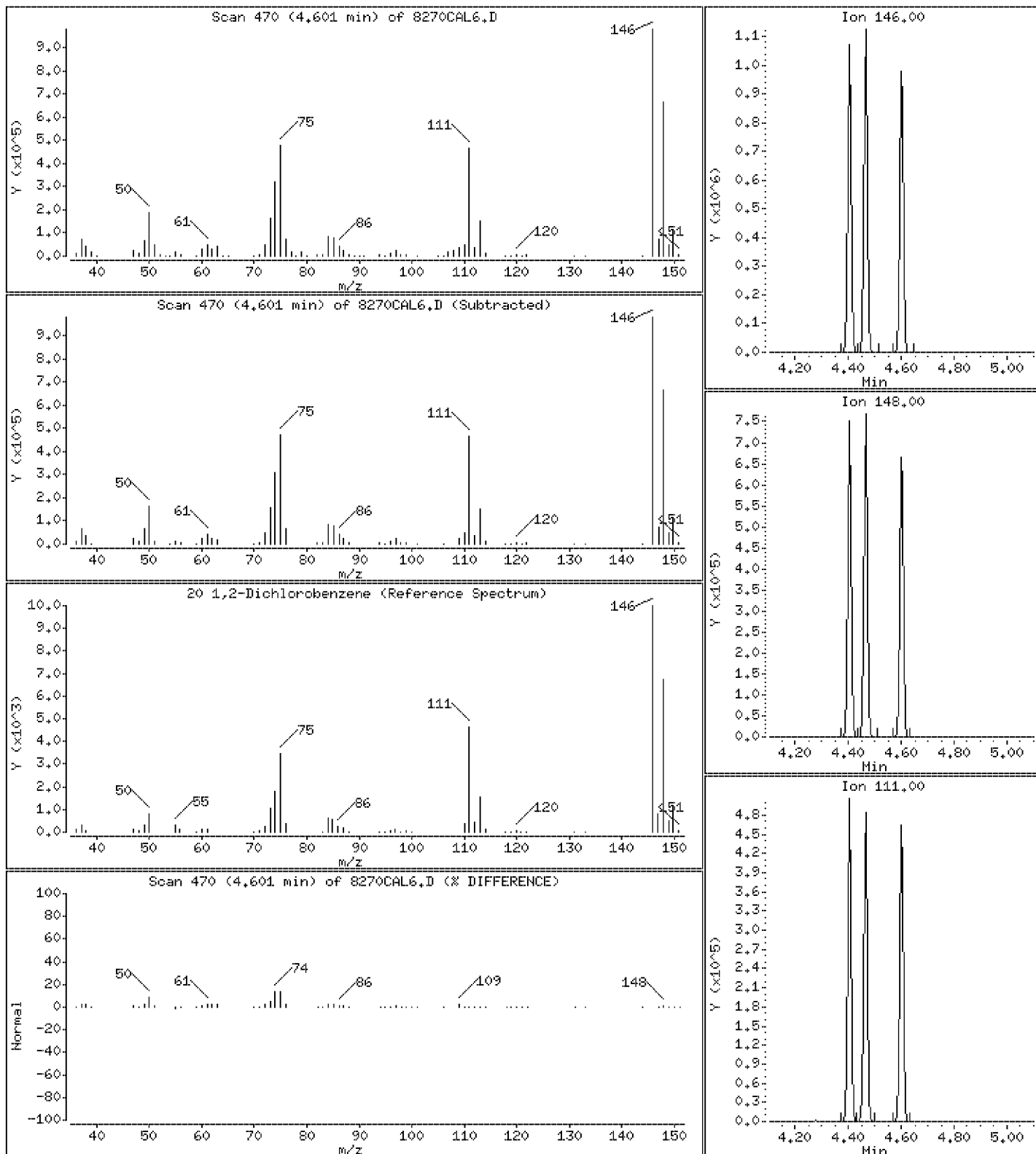
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

20 1,2-Dichlorobenzene

Concentration: 76.1 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

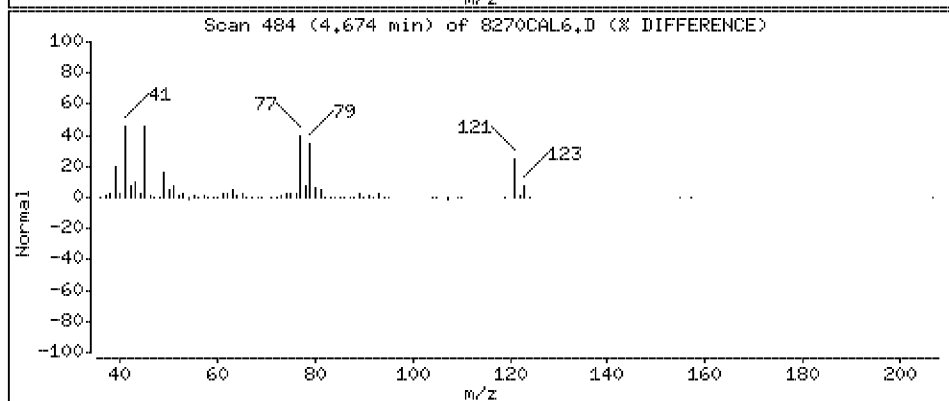
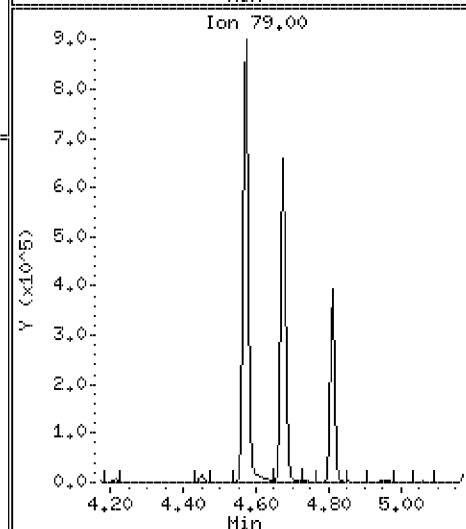
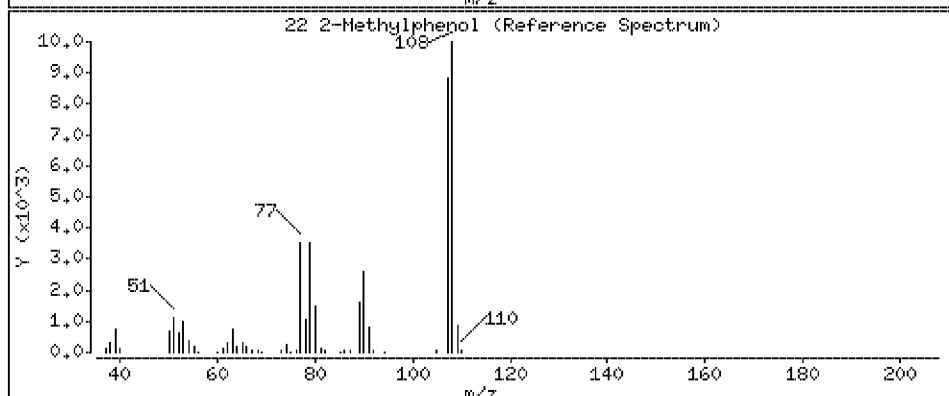
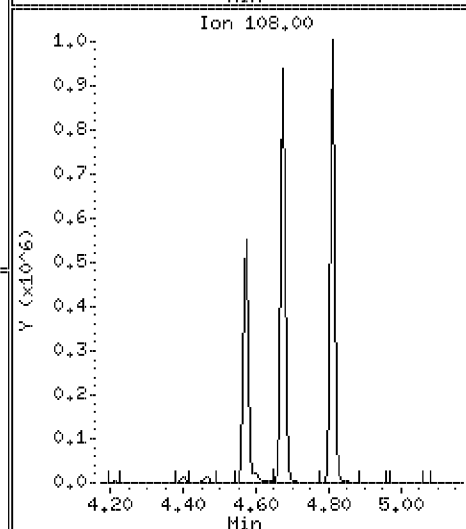
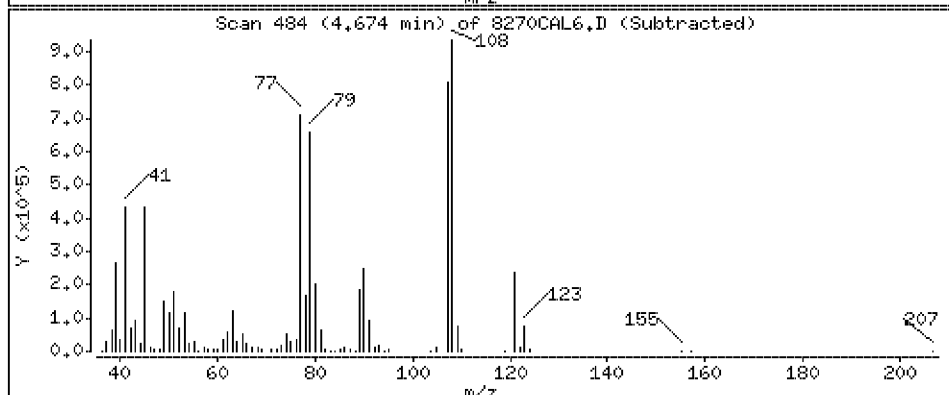
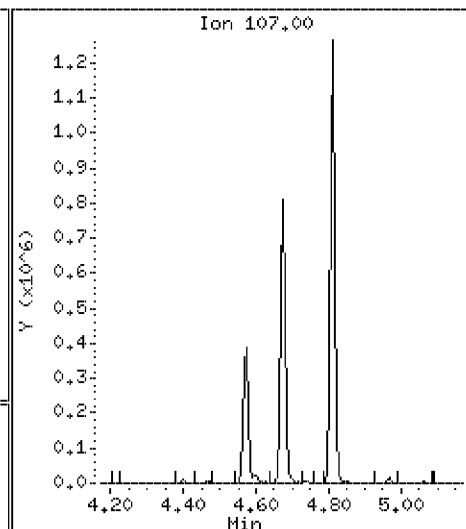
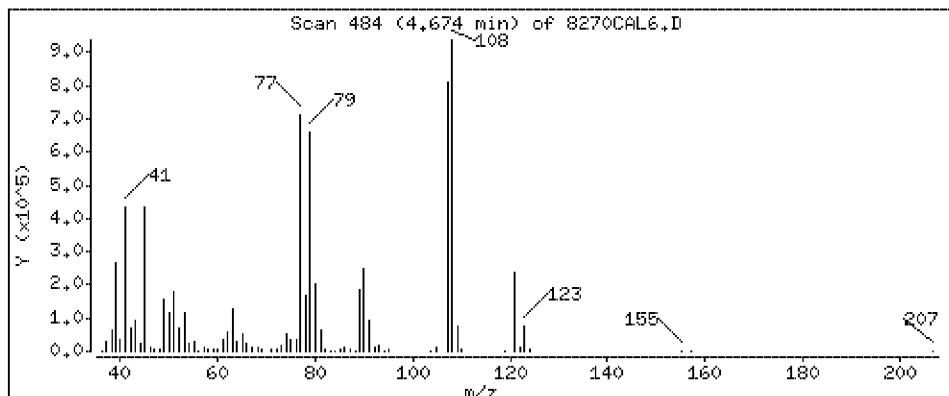
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

22 2-Methylphenol

Concentration: 78.5 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

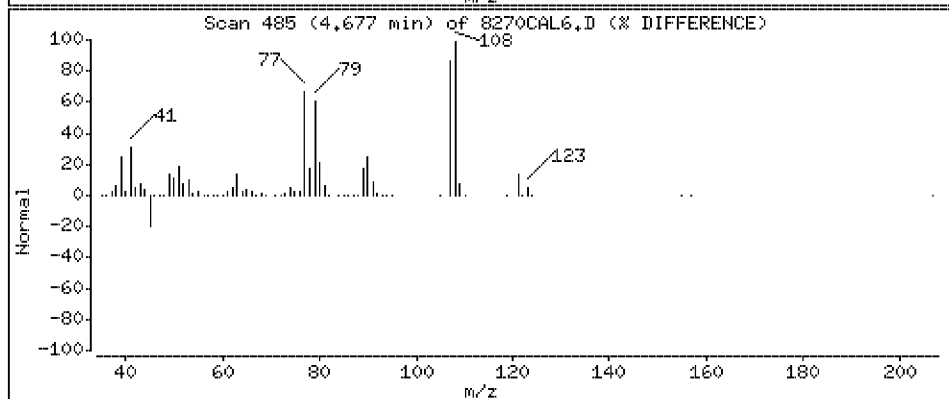
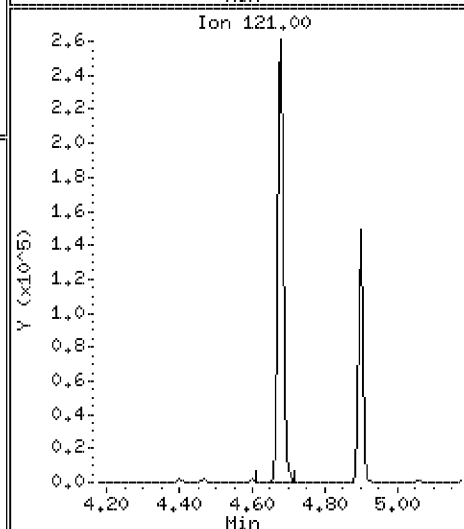
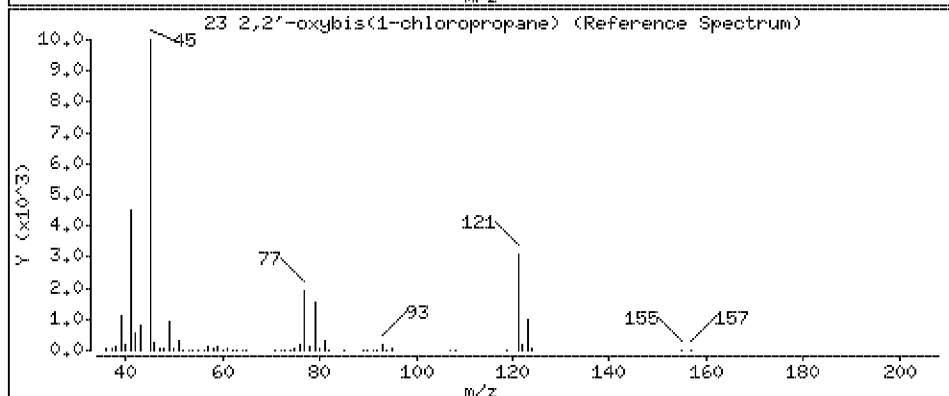
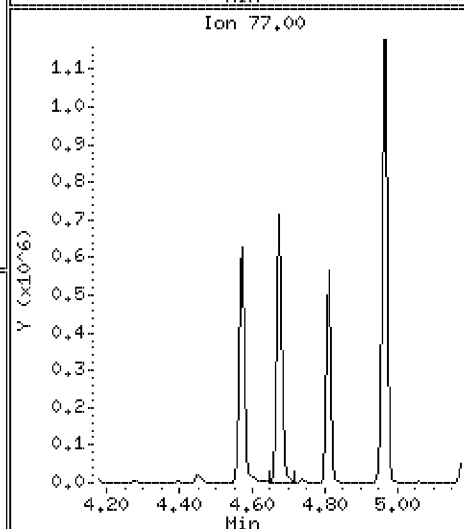
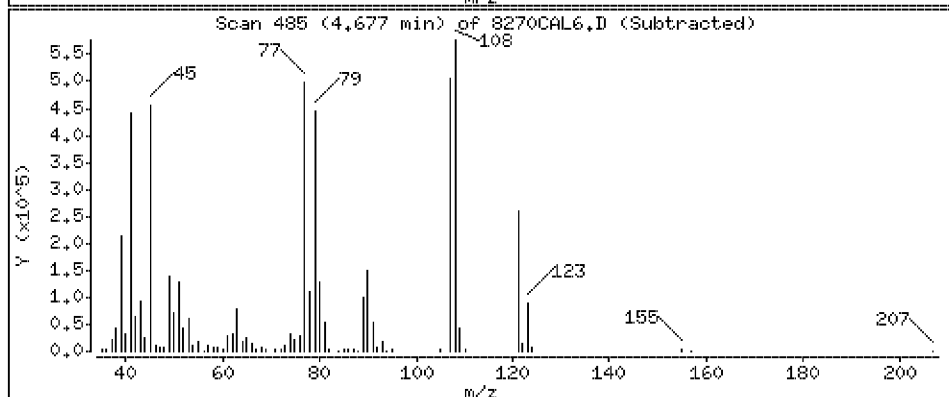
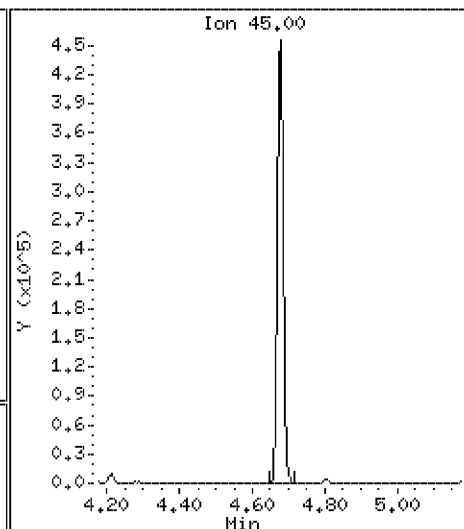
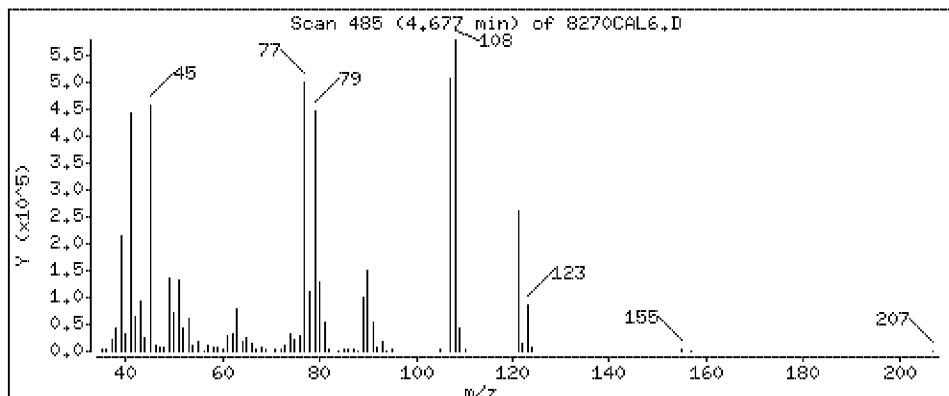
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

23 2,2'-oxybis(1-chloropropane)

Concentration: 75.2 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

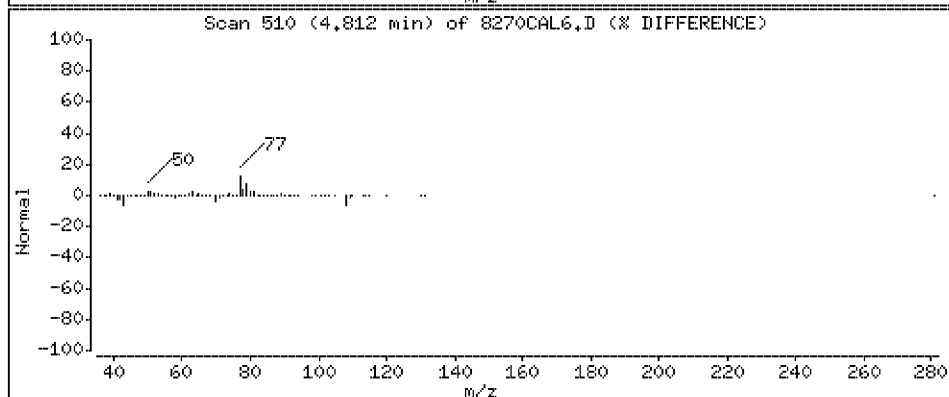
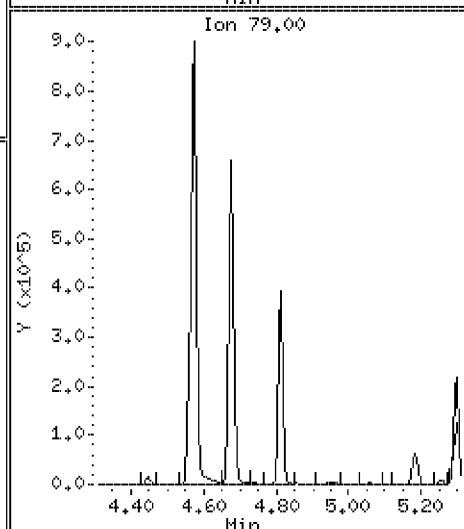
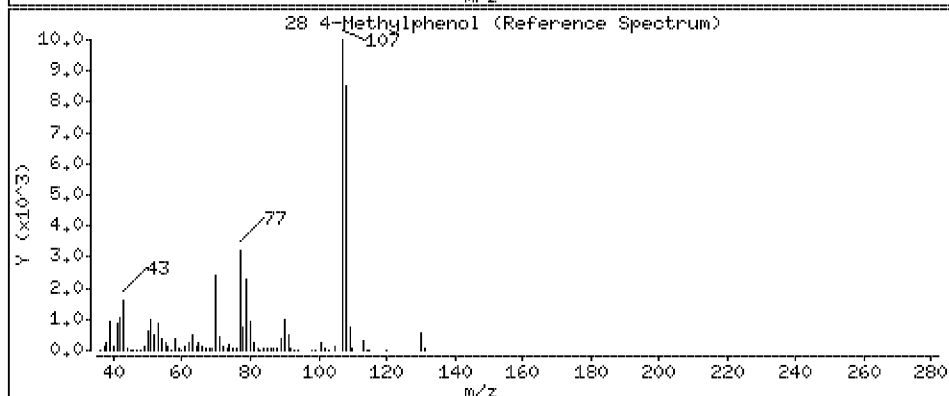
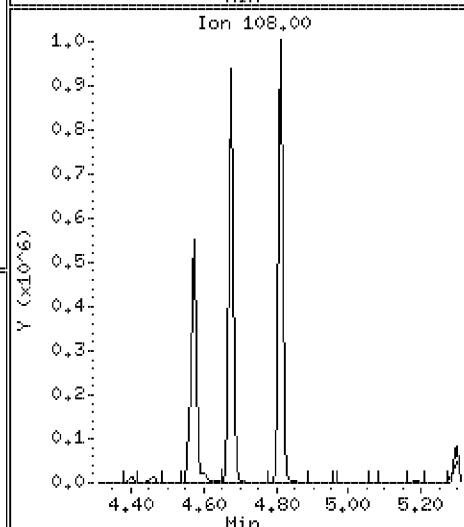
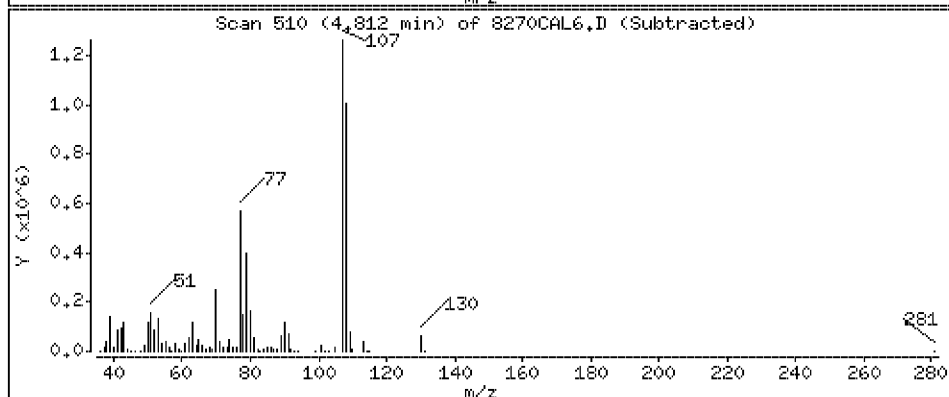
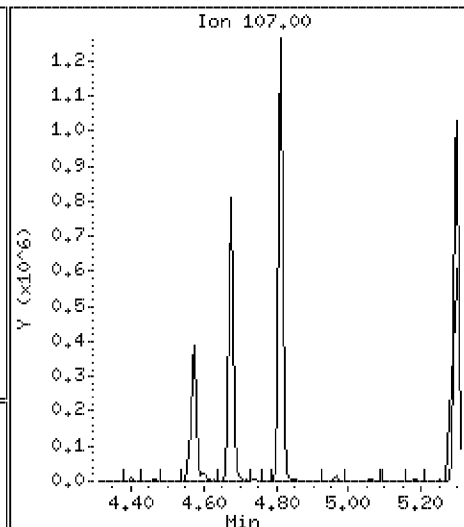
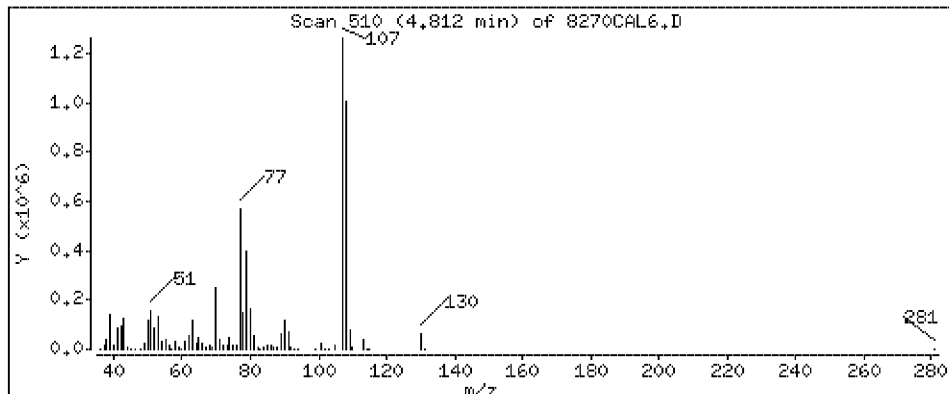
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

28 4-Methylphenol

Concentration: 79.4 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

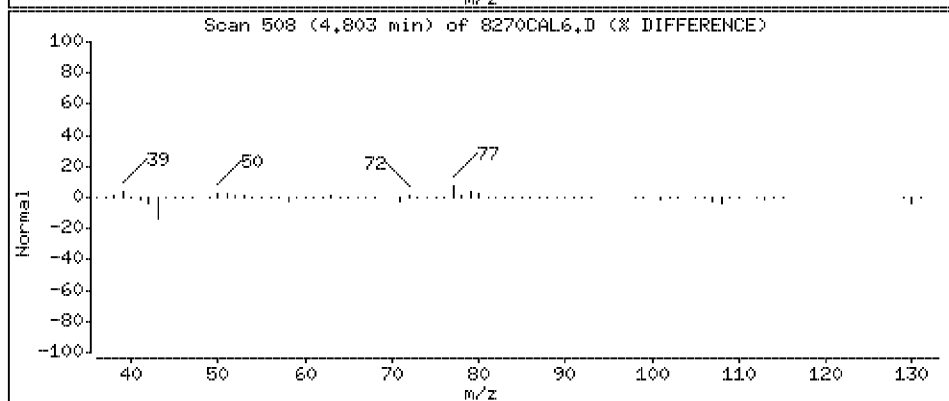
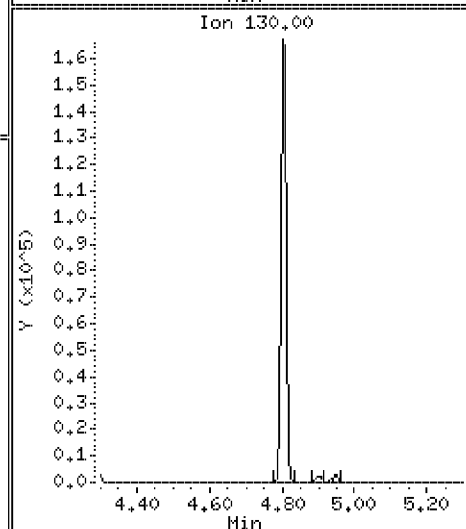
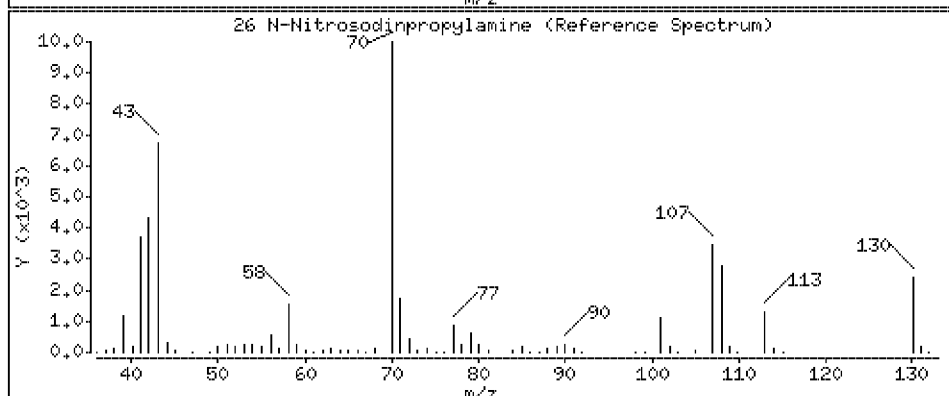
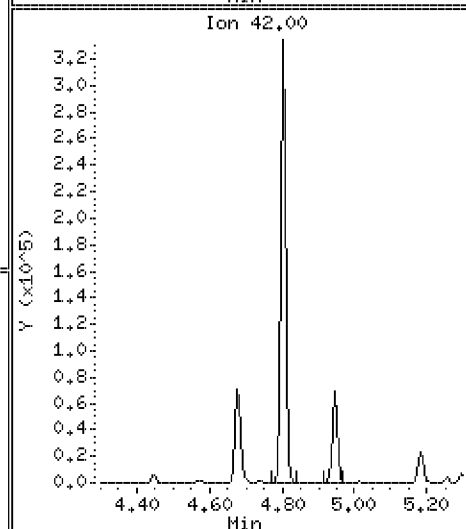
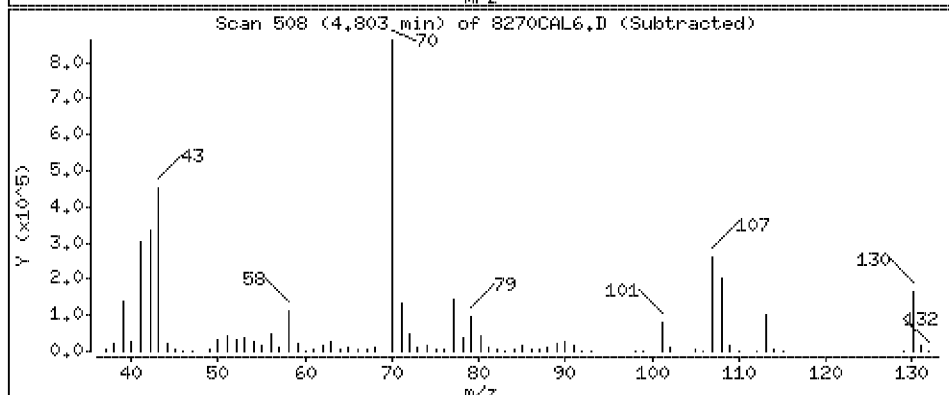
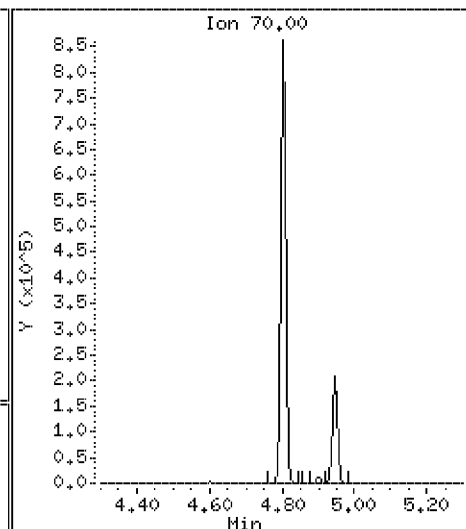
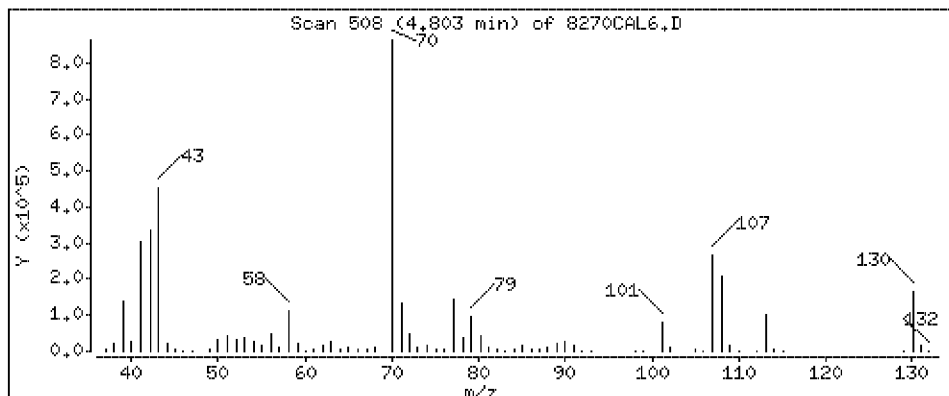
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

26 N-Nitrosodipropylamine

Concentration: 76.8 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

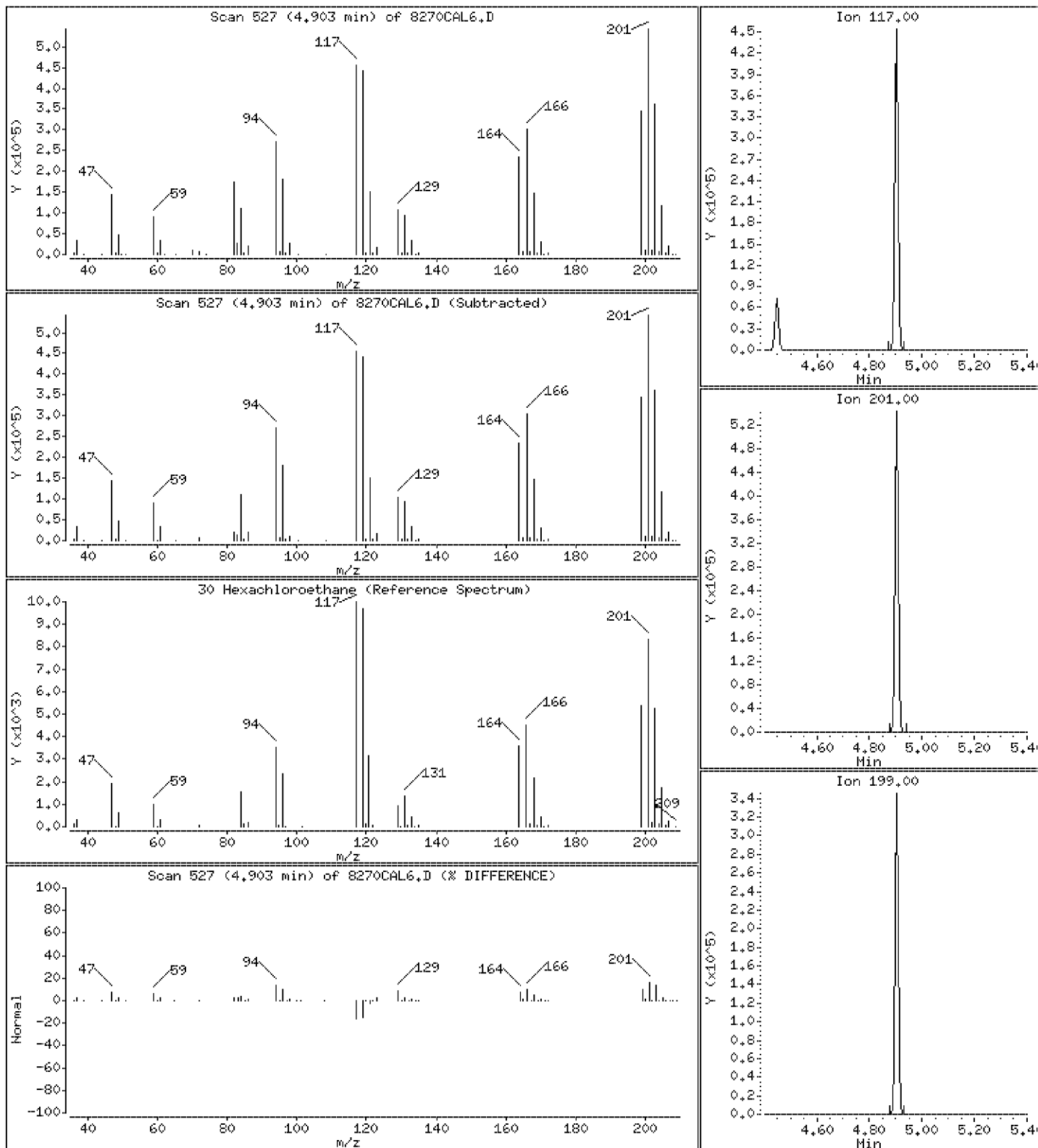
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

30 Hexachloroethane

Concentration: 76.4 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

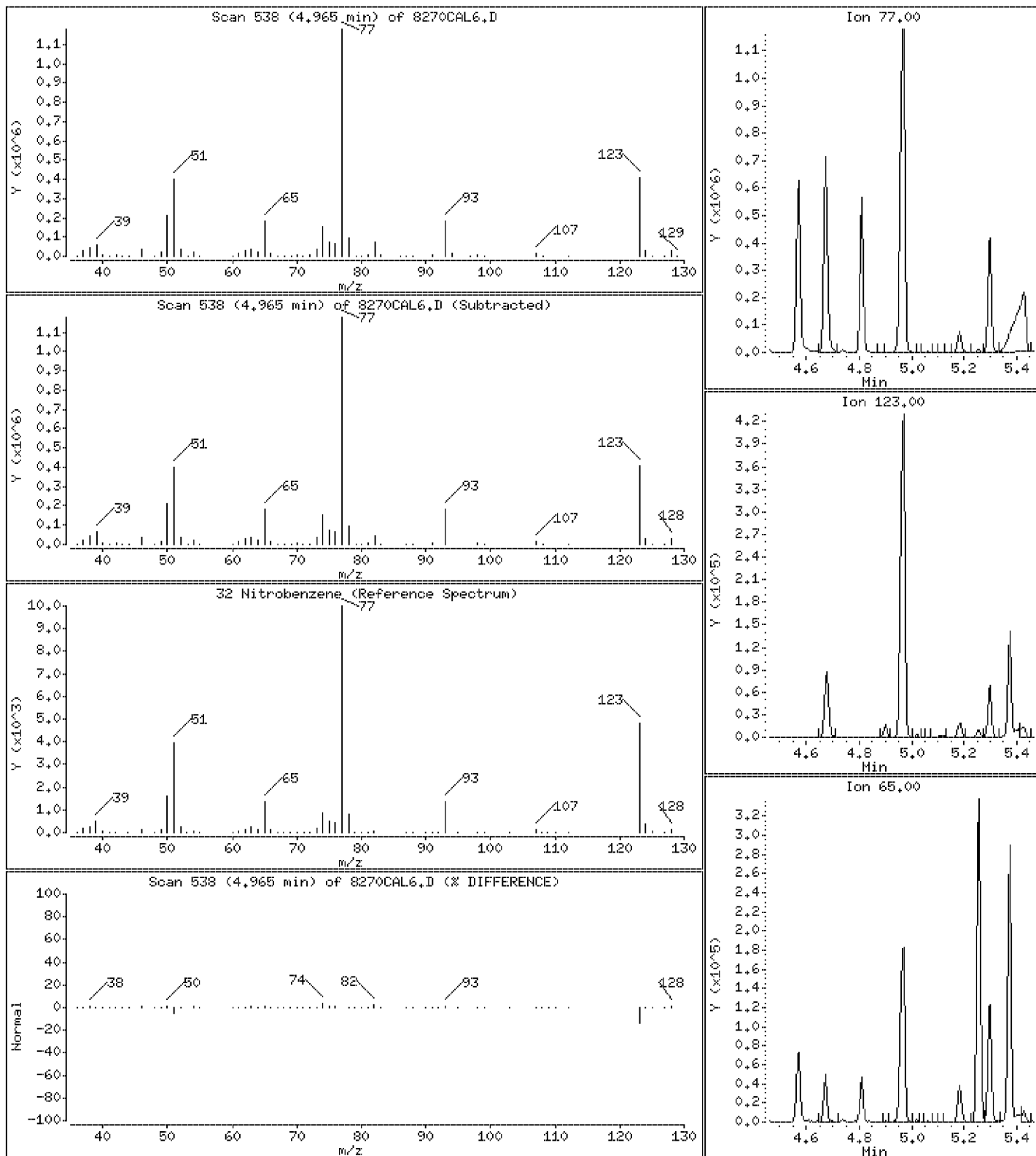
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

32 Nitrobenzene

Concentration: 75.8 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

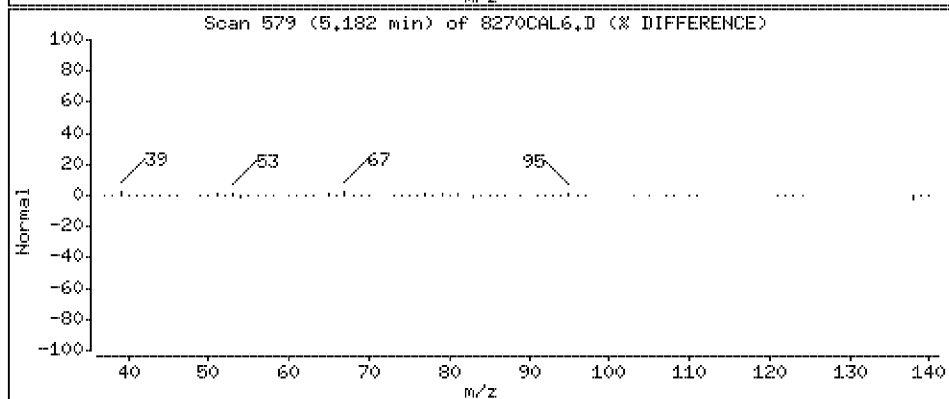
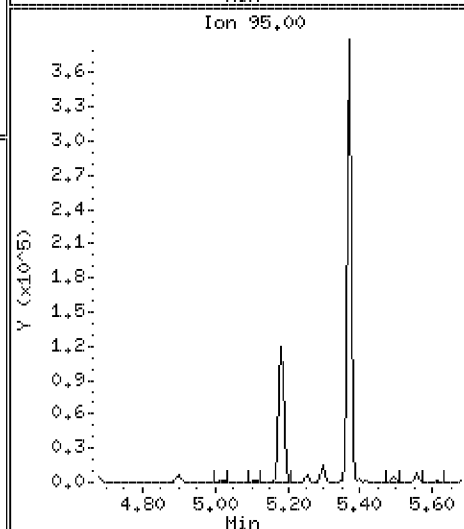
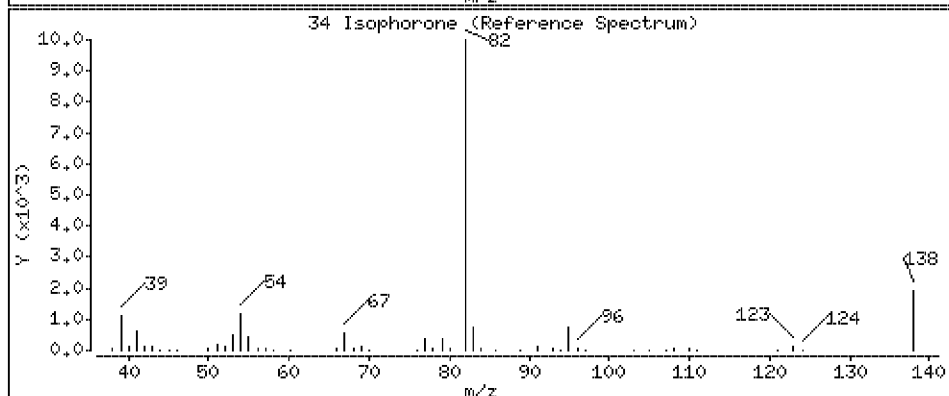
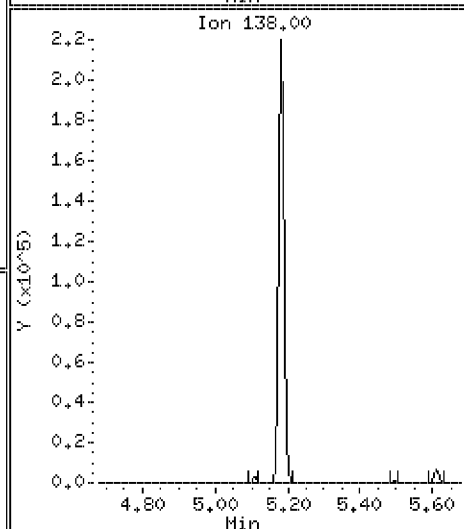
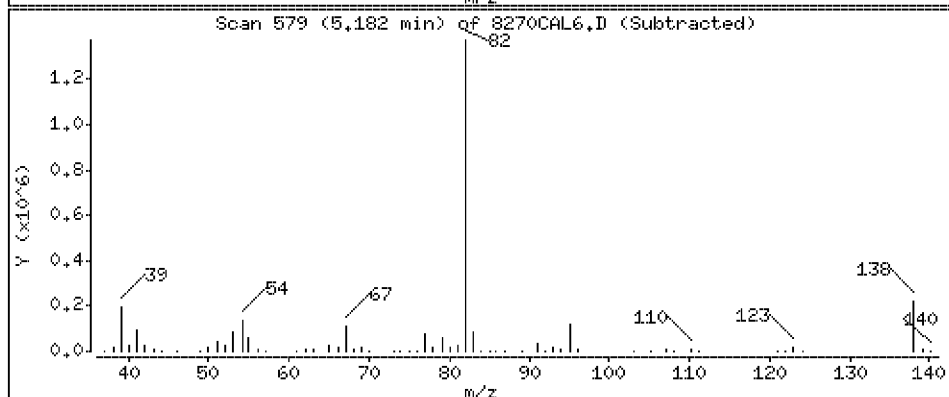
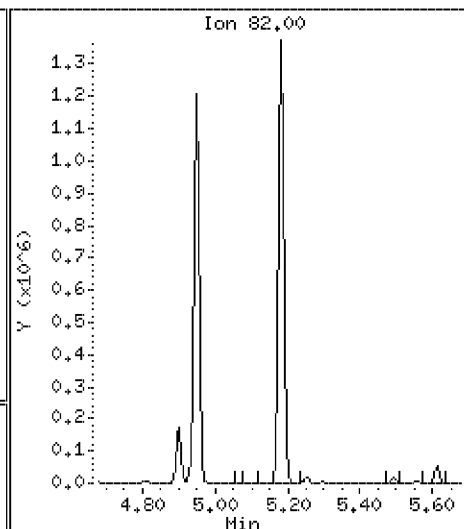
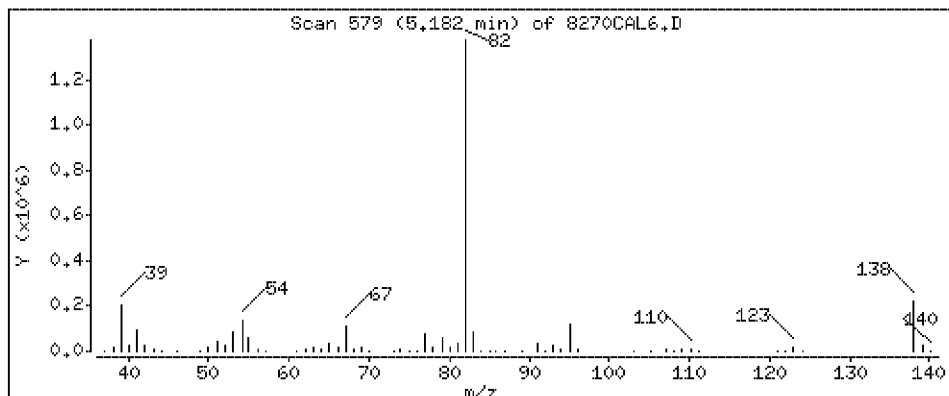
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

34 Isophorone

Concentration: 75.2 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

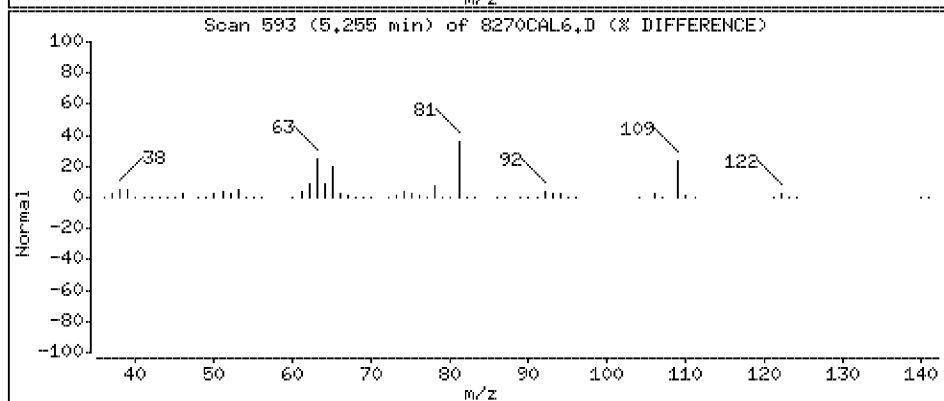
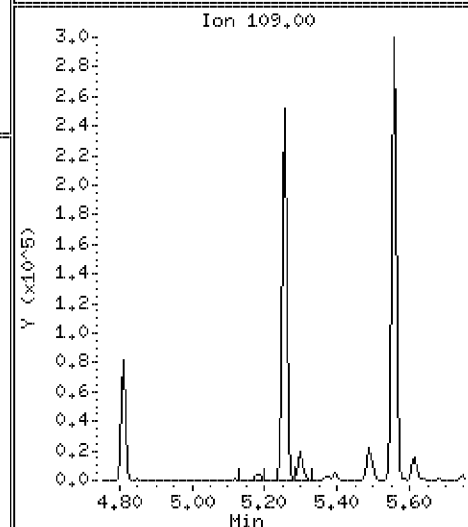
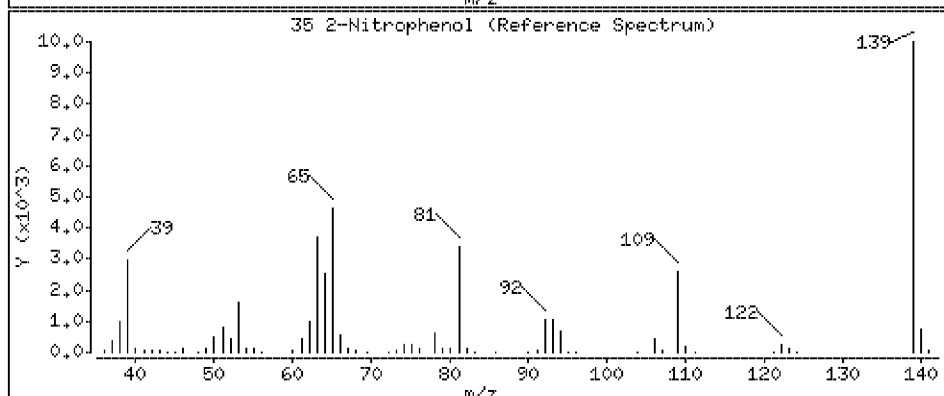
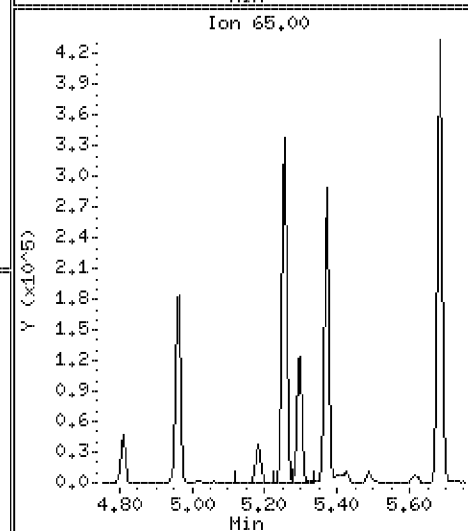
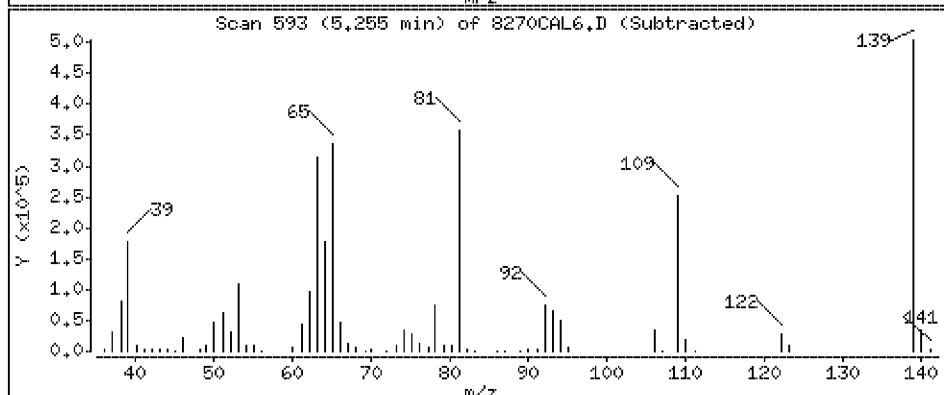
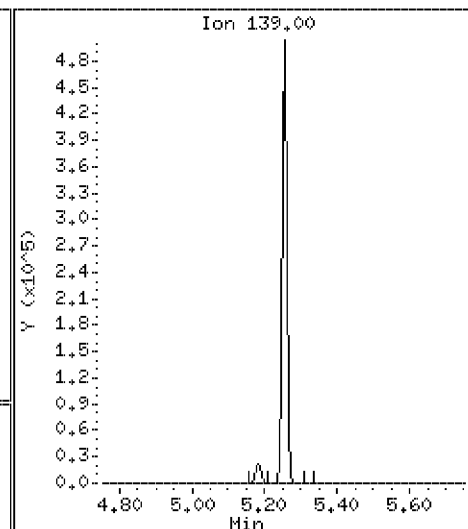
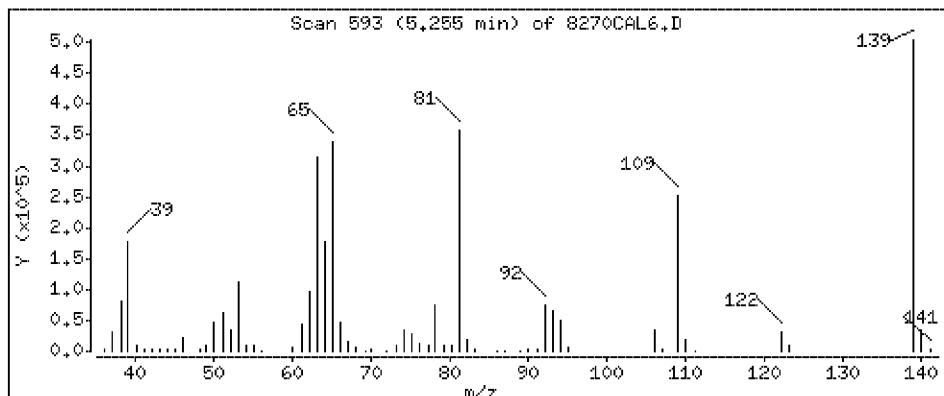
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

35 2-Nitrophenol

Concentration: 77.4 ug/l



Date: 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

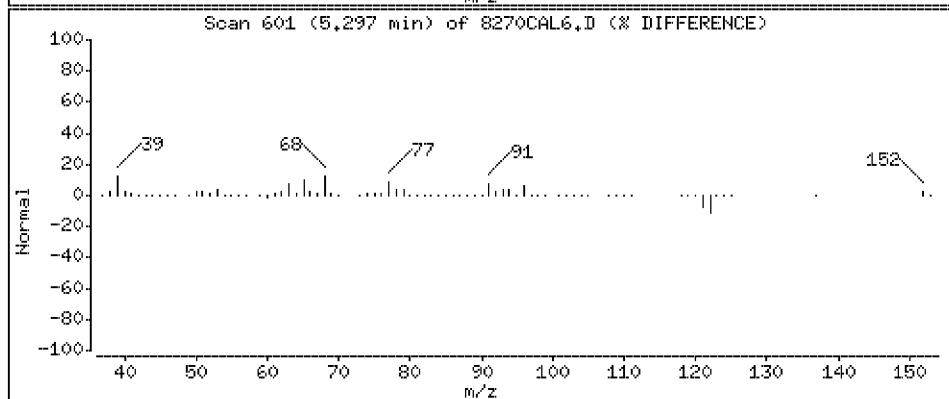
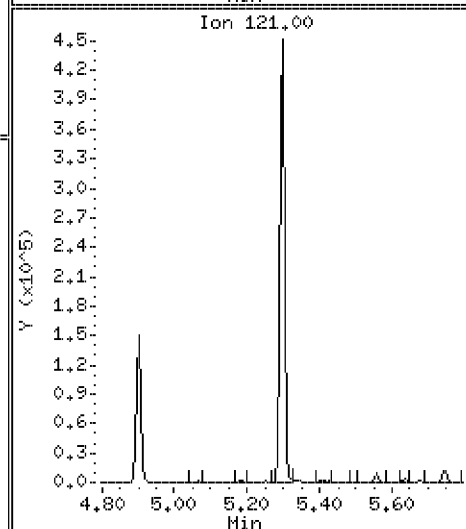
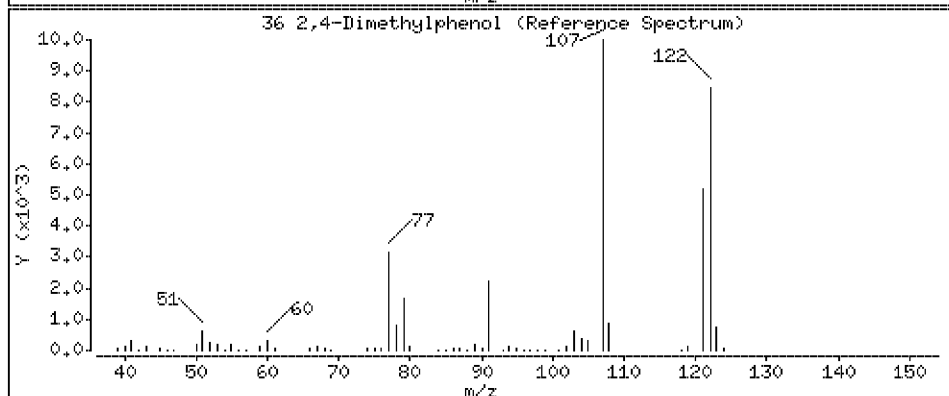
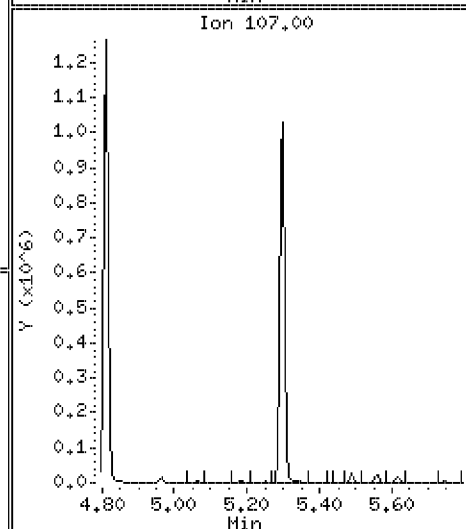
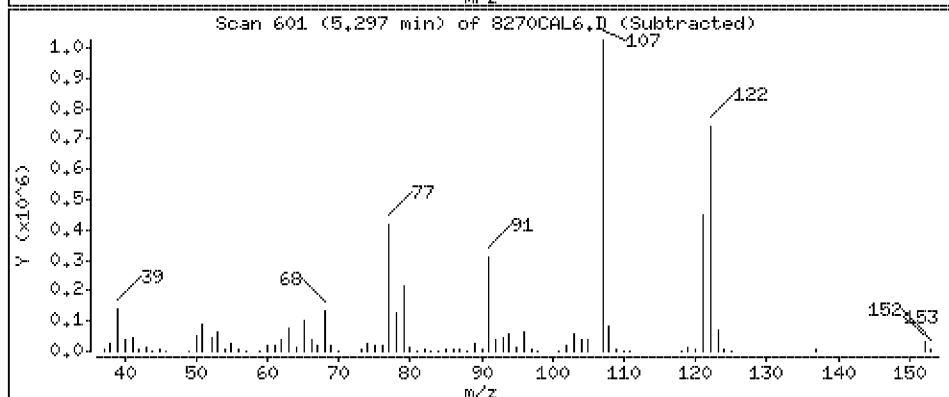
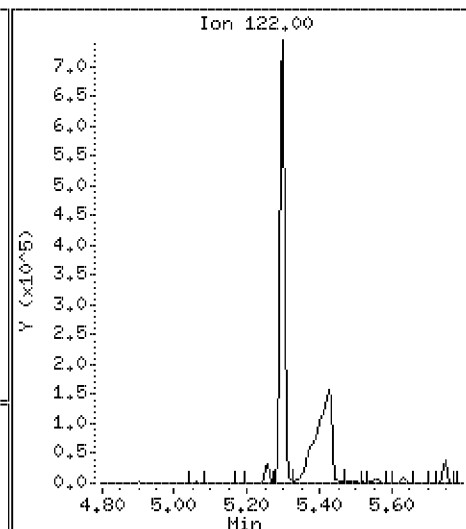
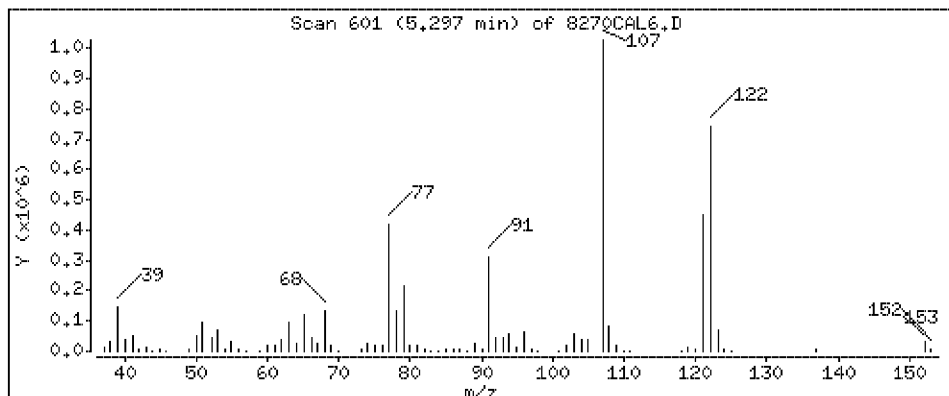
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

36 2,4-Dimethylphenol

Concentration: 76.7 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

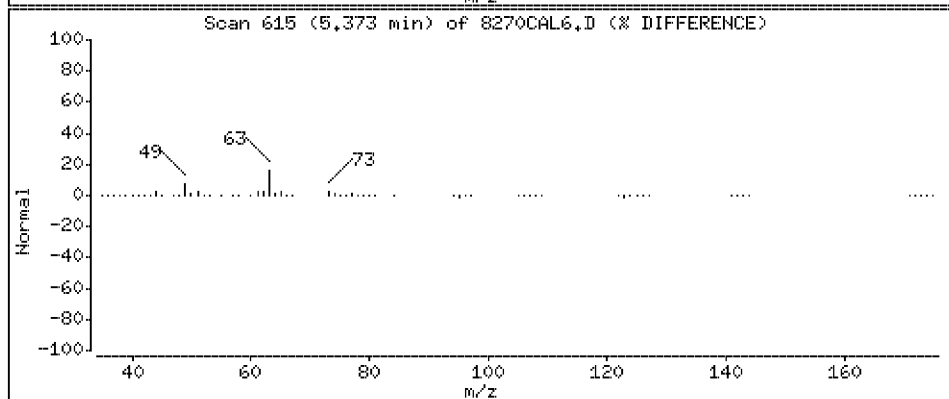
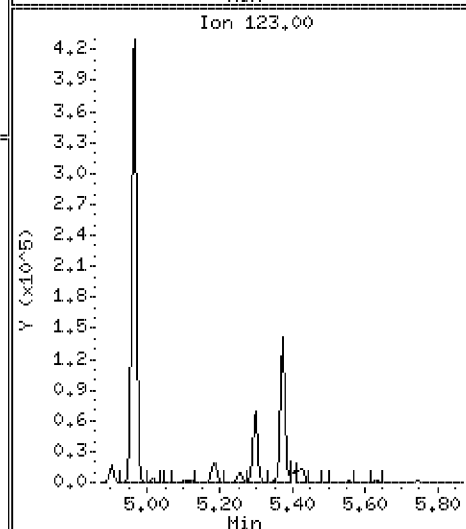
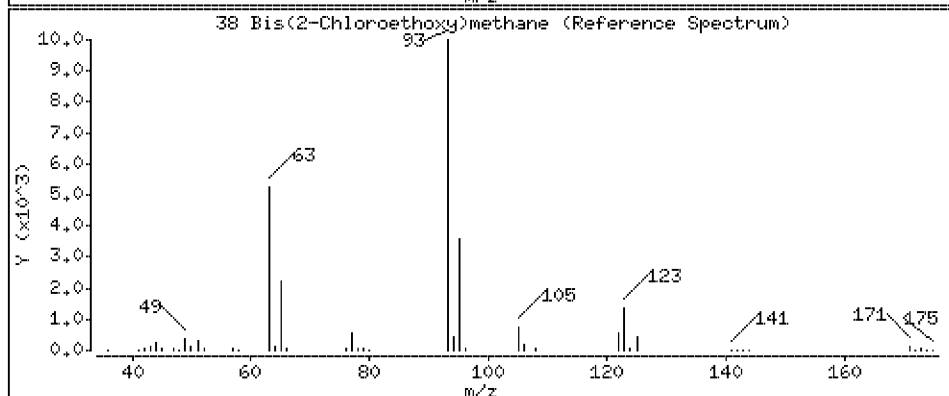
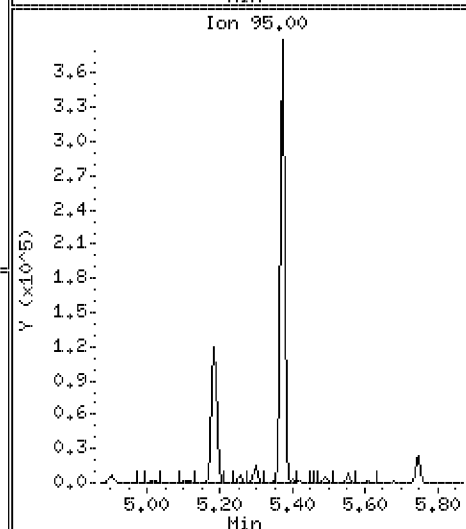
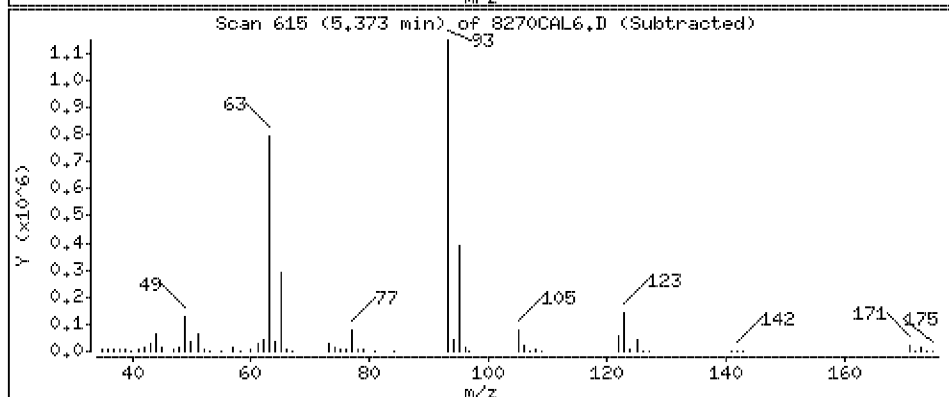
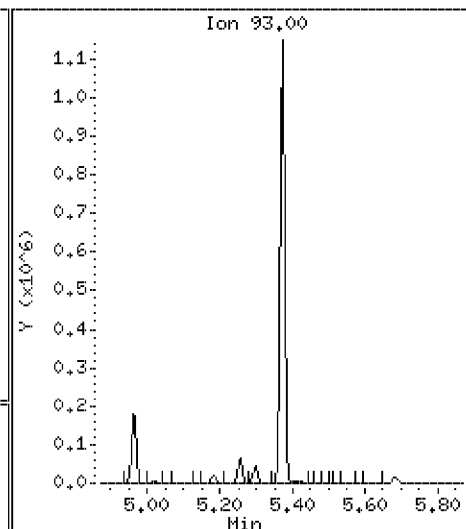
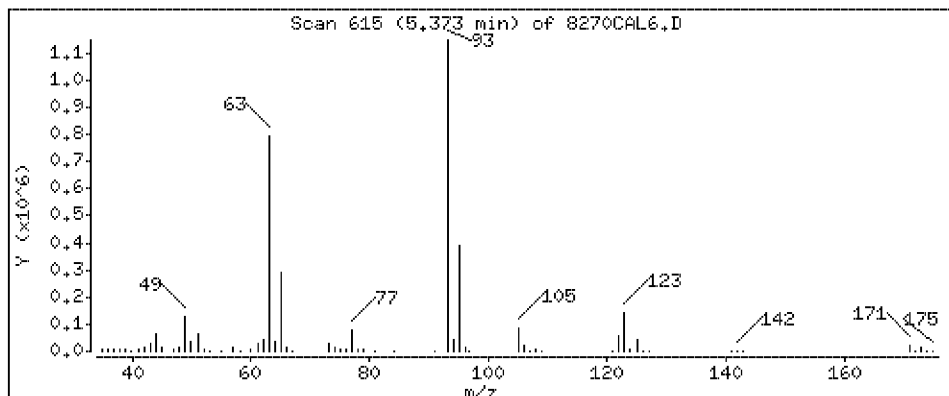
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

38 Bis(2-Chloroethoxy)methane

Concentration: 77.8 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

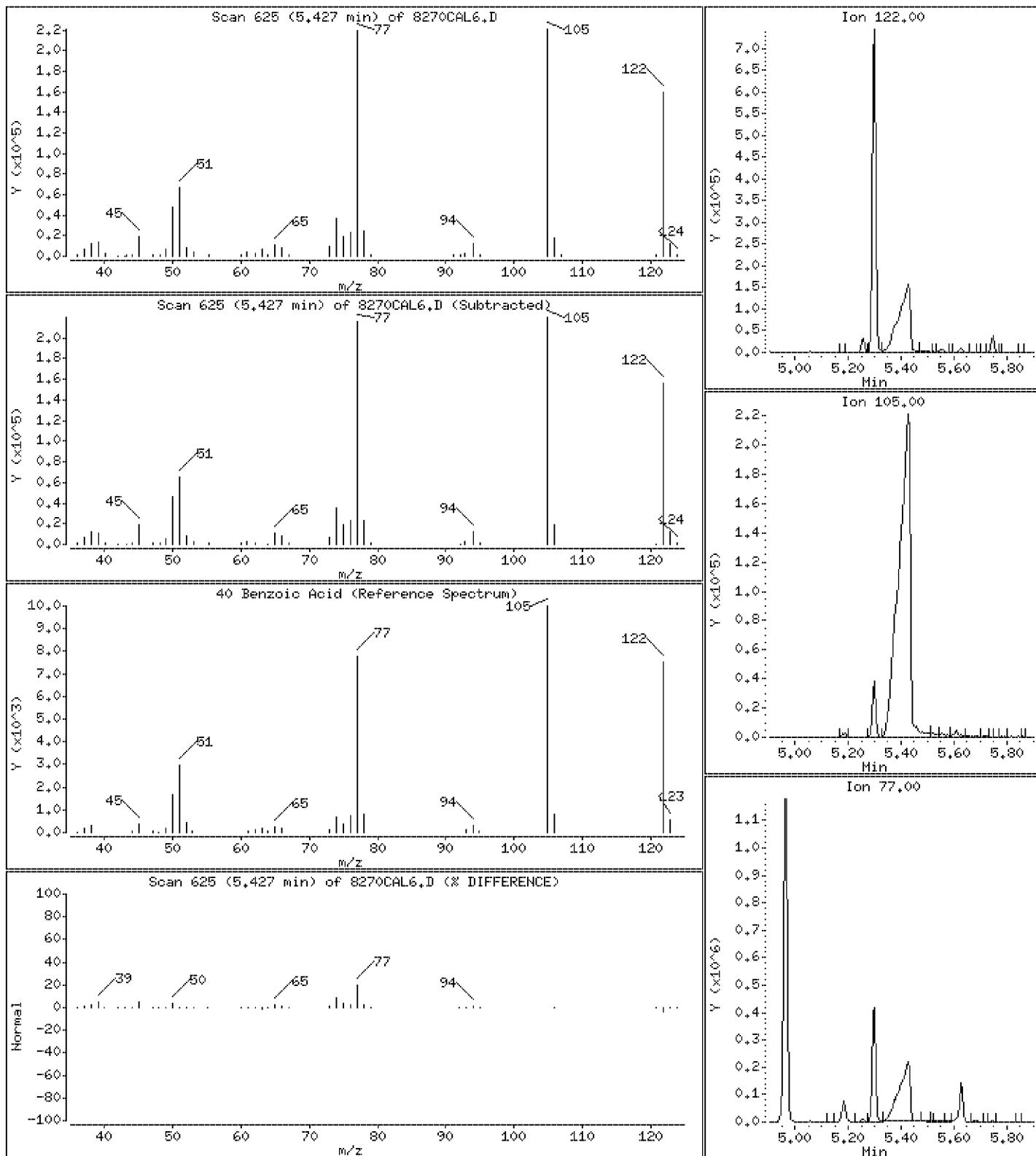
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

40 Benzoic Acid

Concentration: 74.6 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

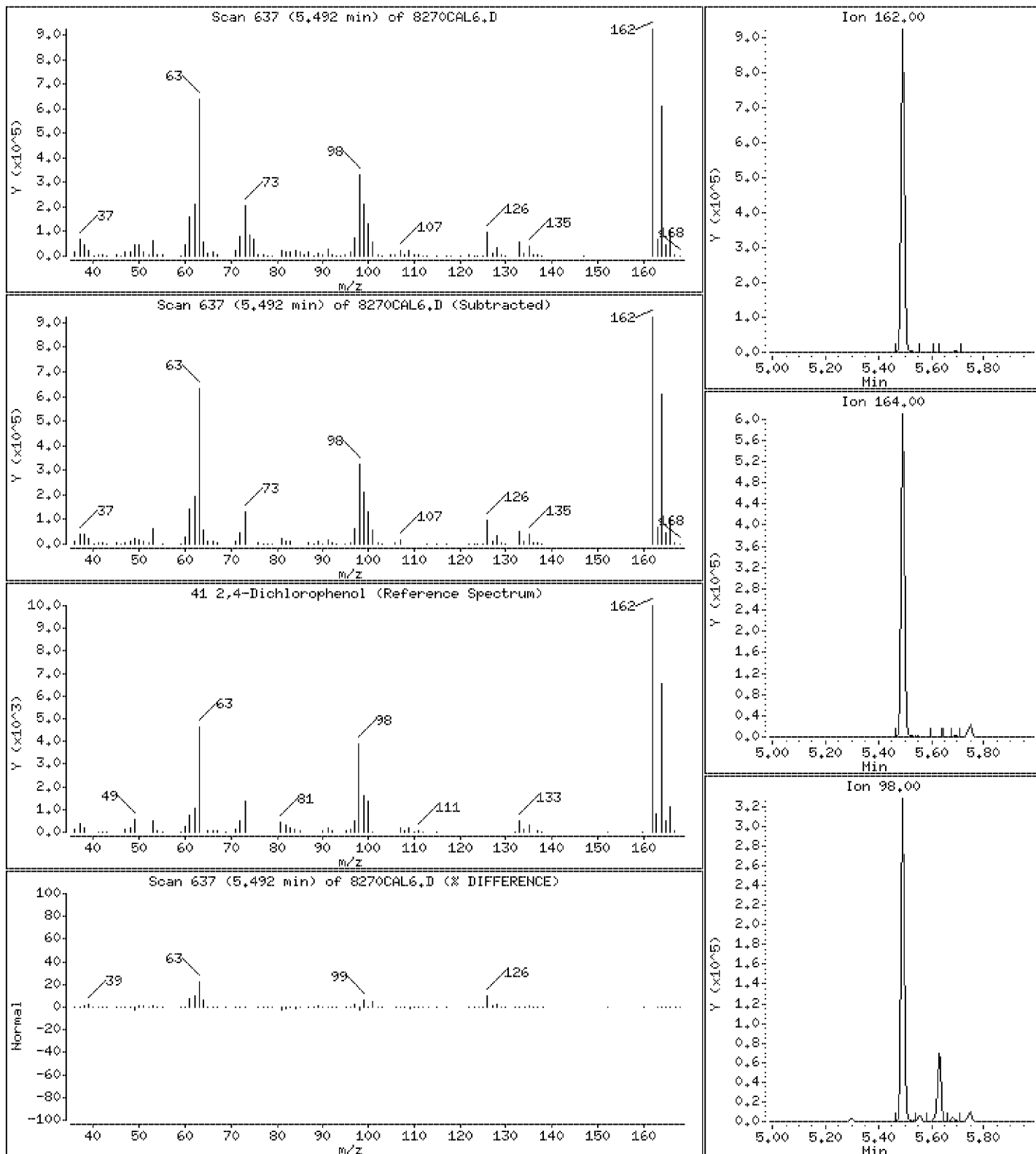
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

41 2,4-Dichlorophenol

Concentration: 77.1 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

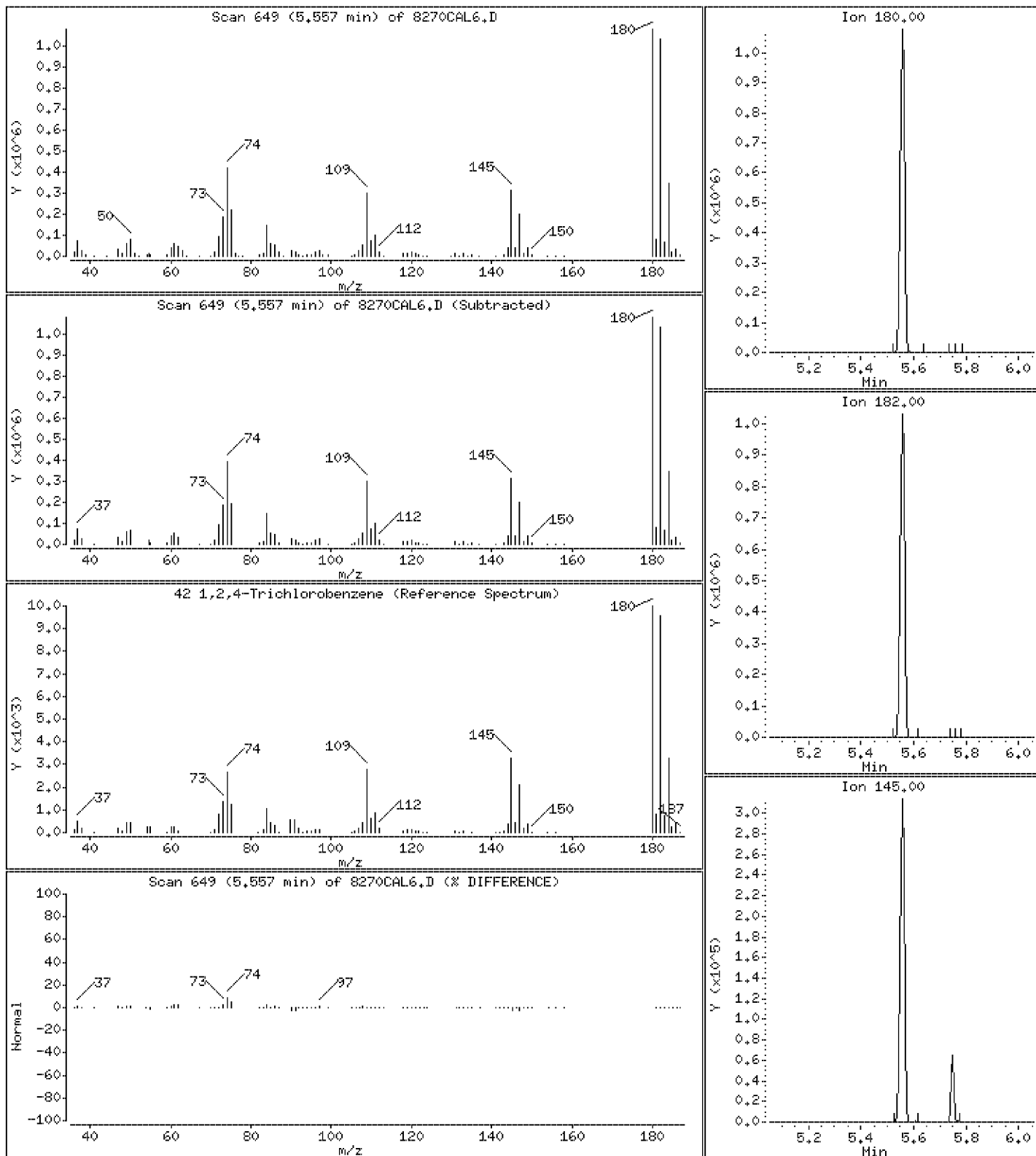
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

42 1,2,4-Trichlorobenzene

Concentration: 76.6 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

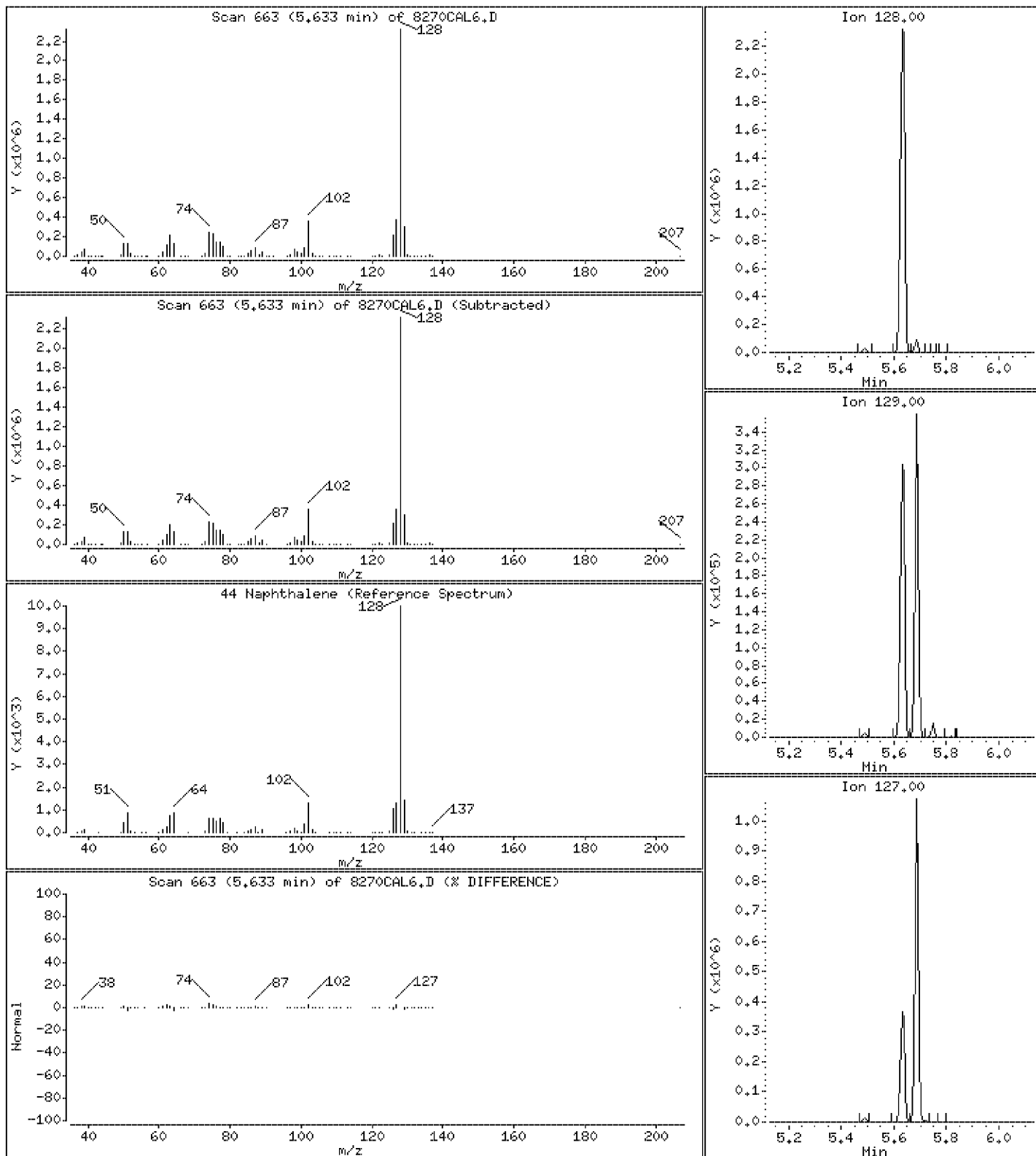
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

44 Naphthalene

Concentration: 74.9 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

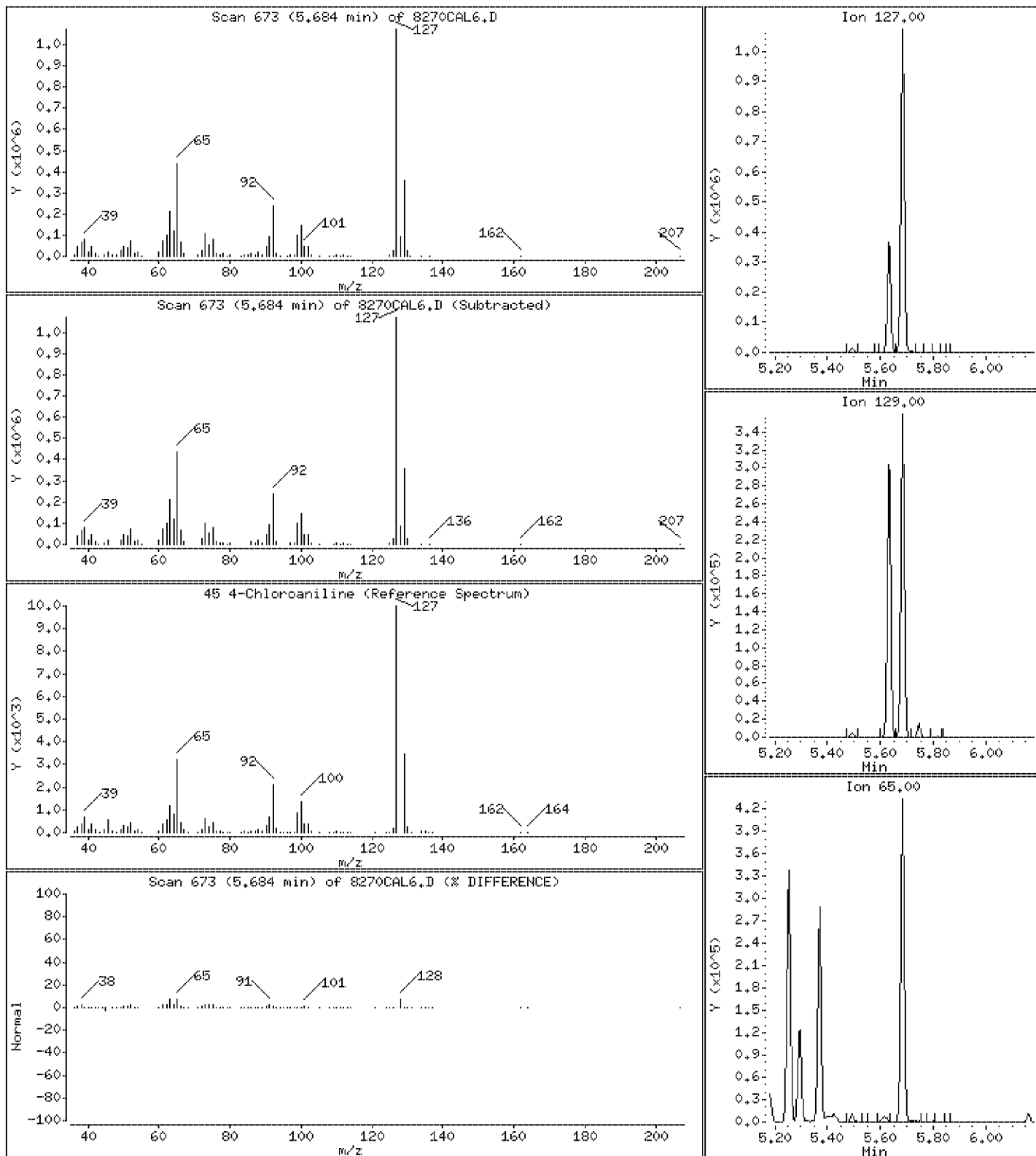
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

45 4-Chloroaniline

Concentration: 77.0 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

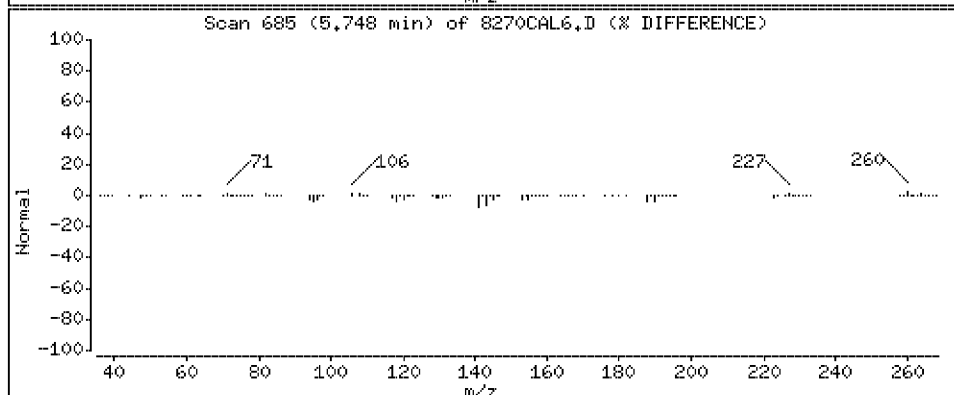
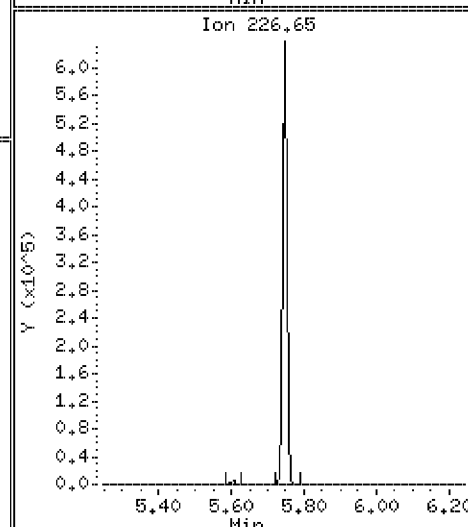
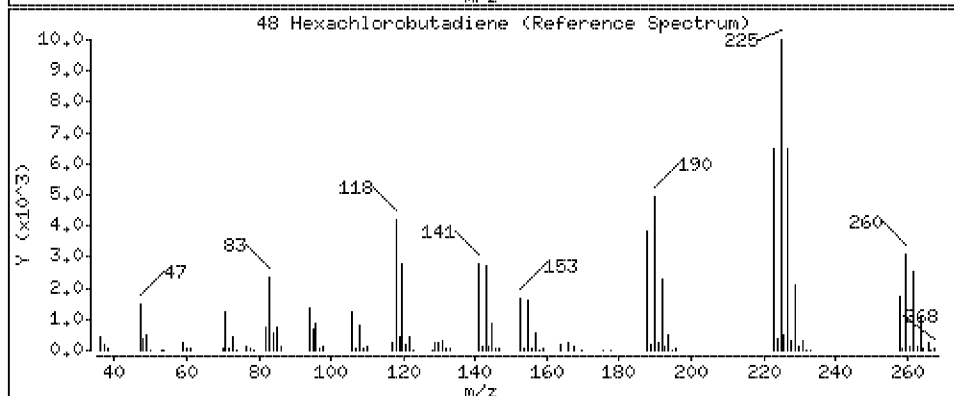
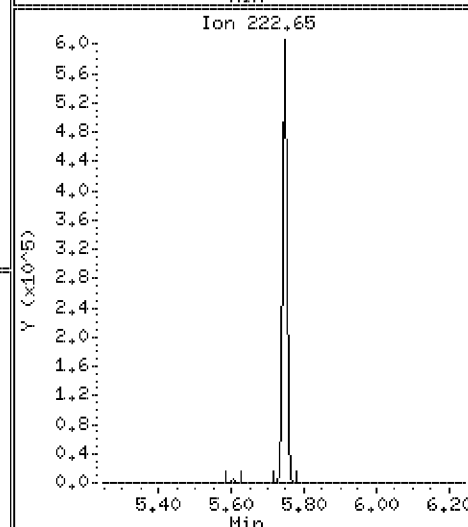
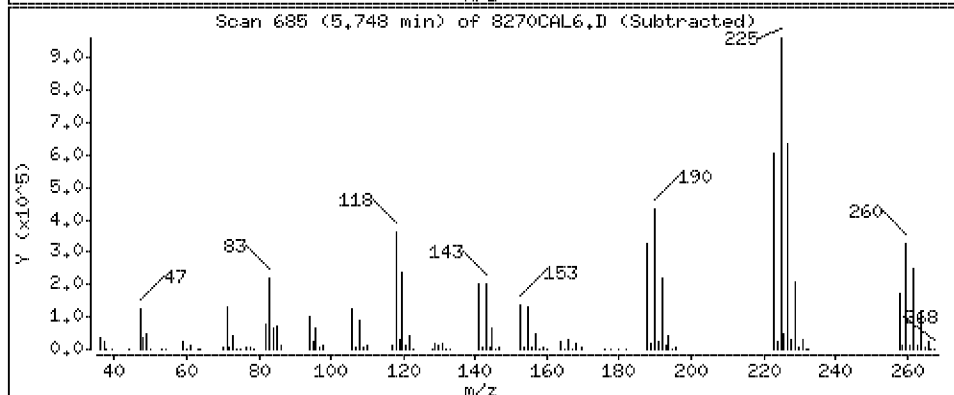
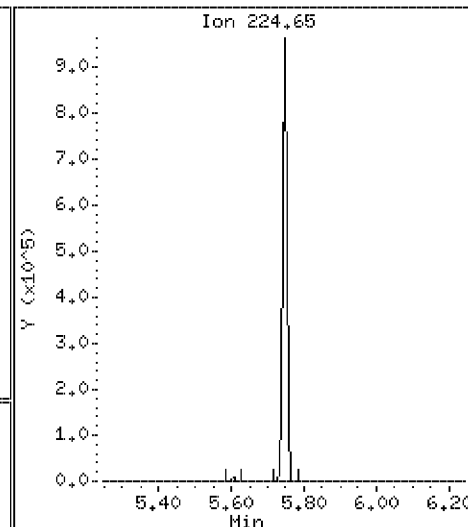
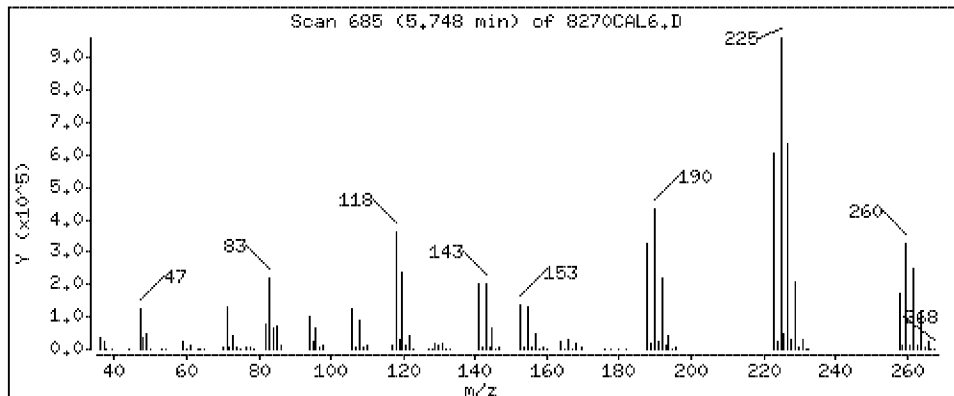
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

48 Hexachlorobutadiene

Concentration: 77.8 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

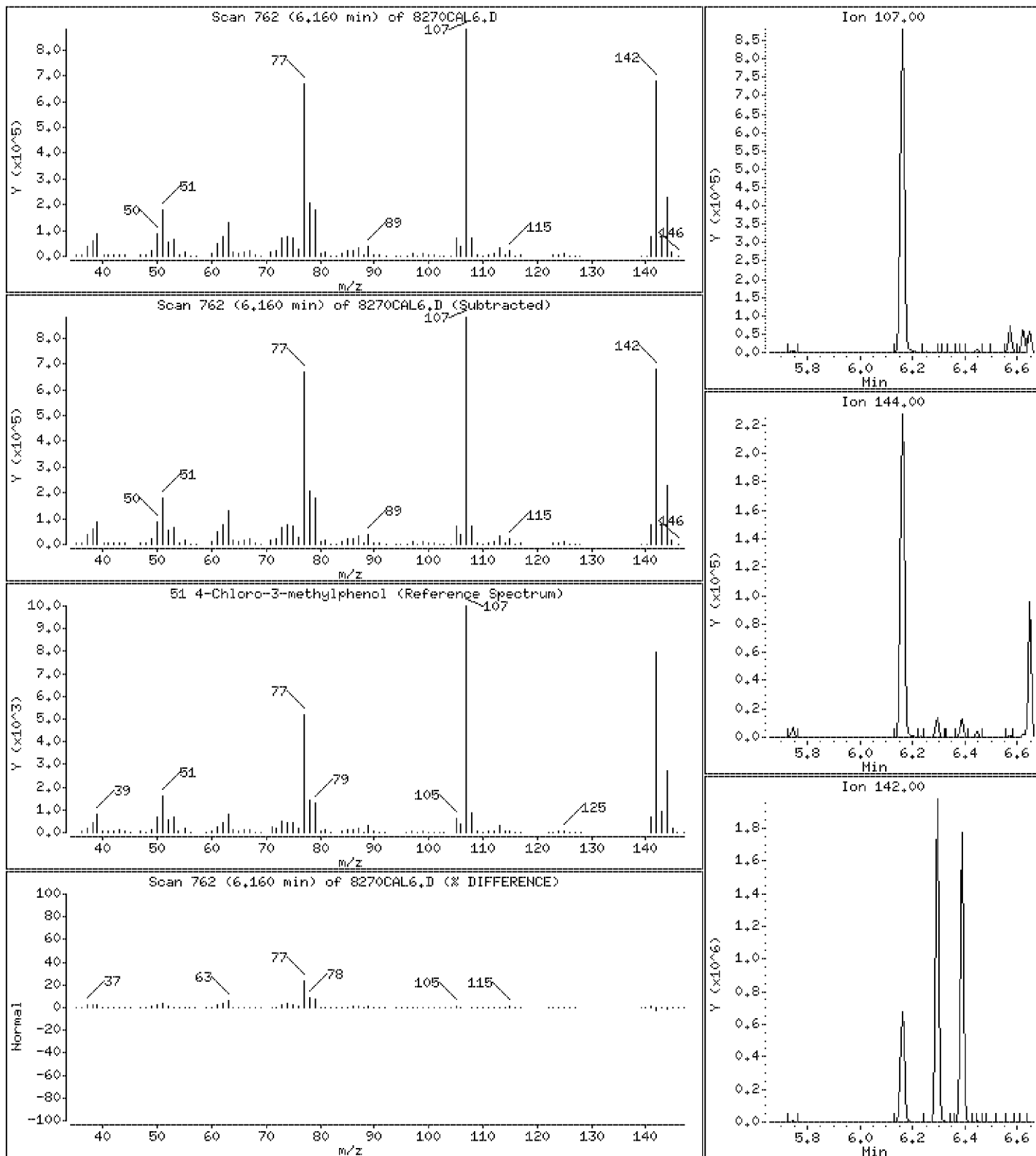
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

51 4-Chloro-3-methylphenol

Concentration: 76.1 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

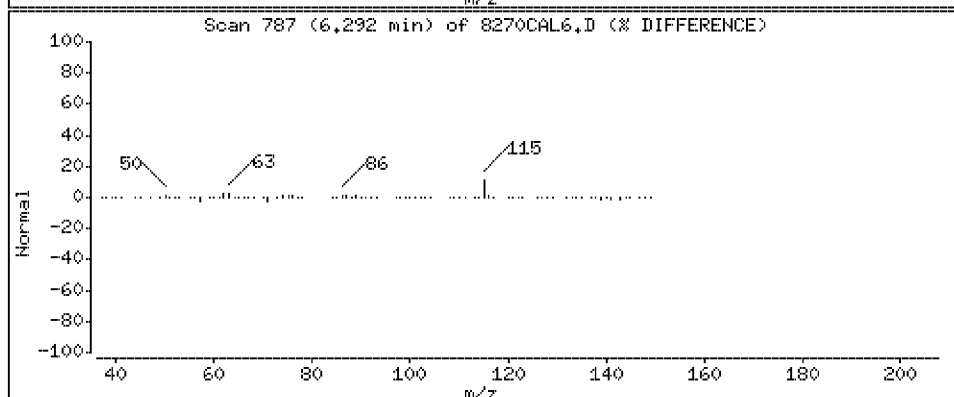
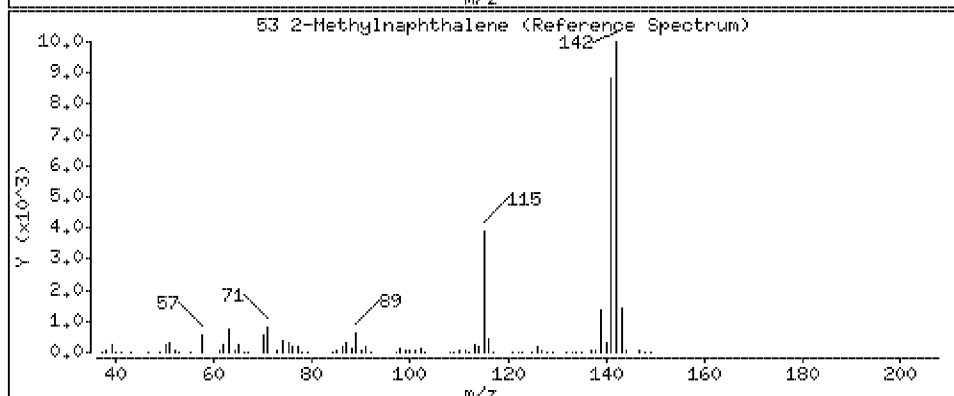
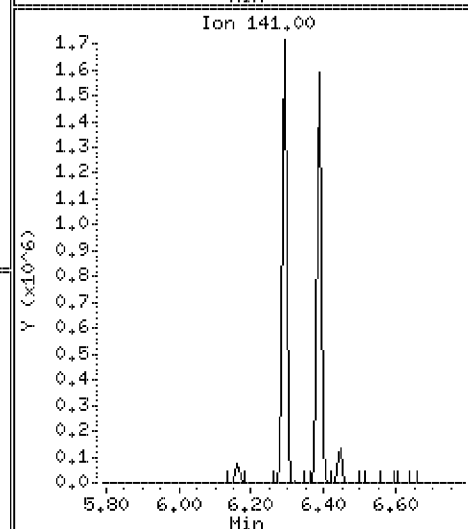
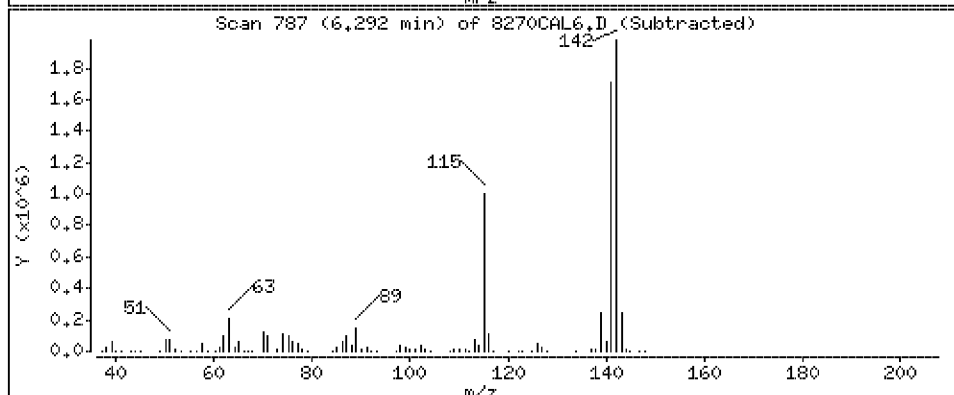
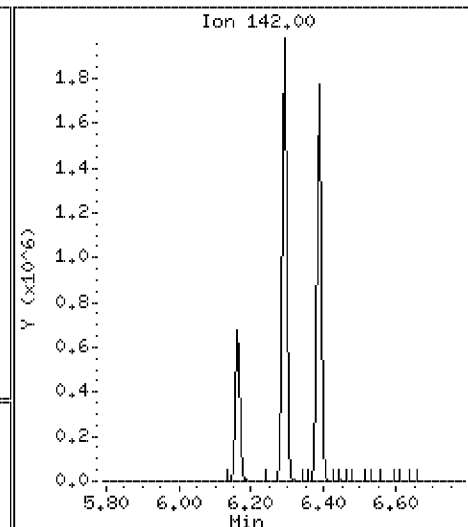
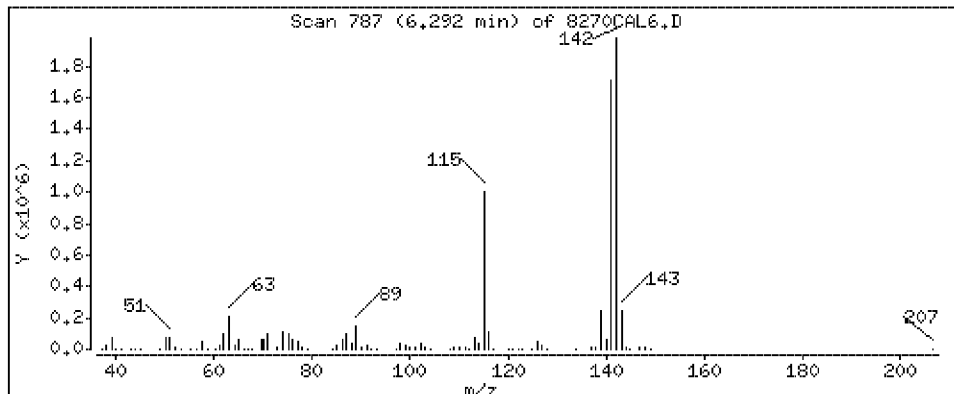
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

53 2-Methylnaphthalene

Concentration: 77.7 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

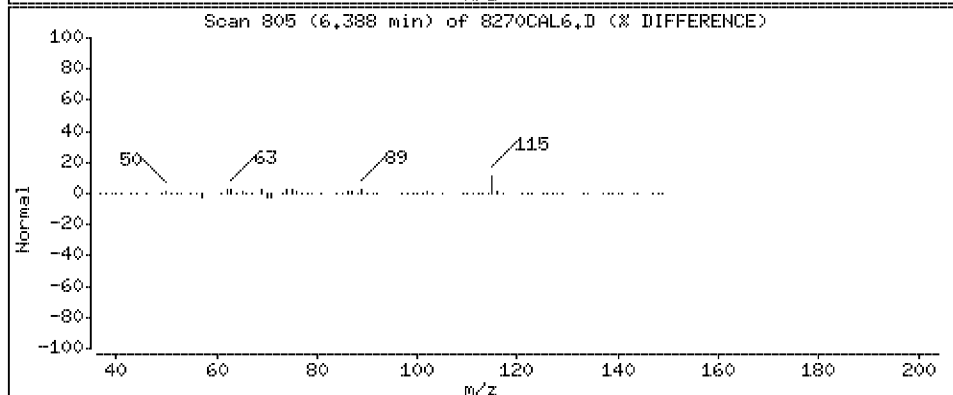
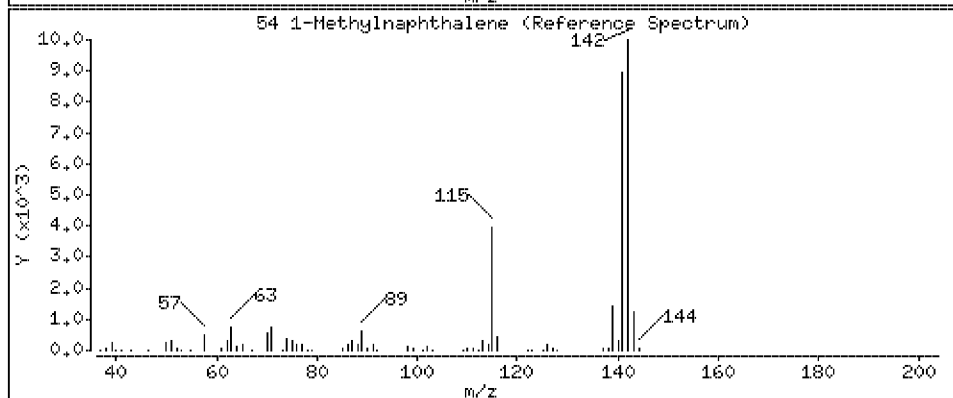
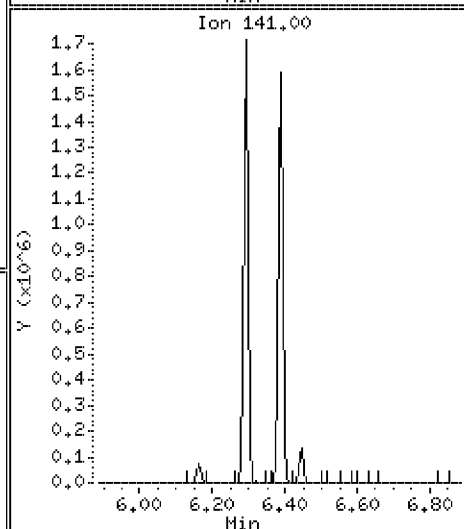
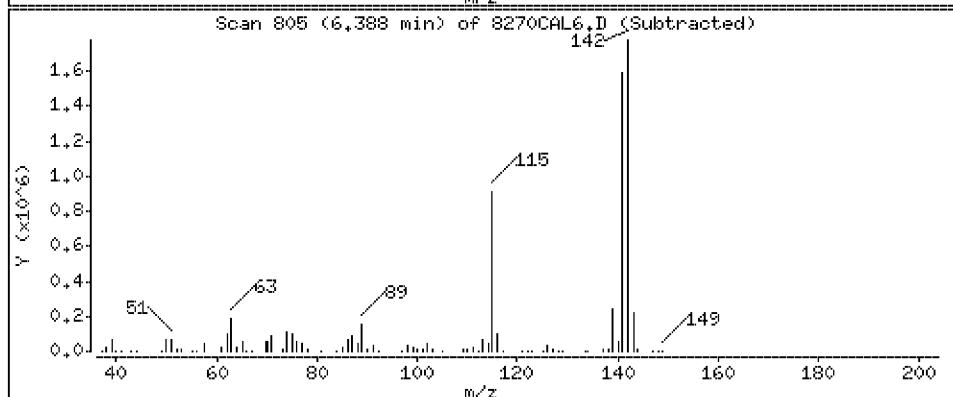
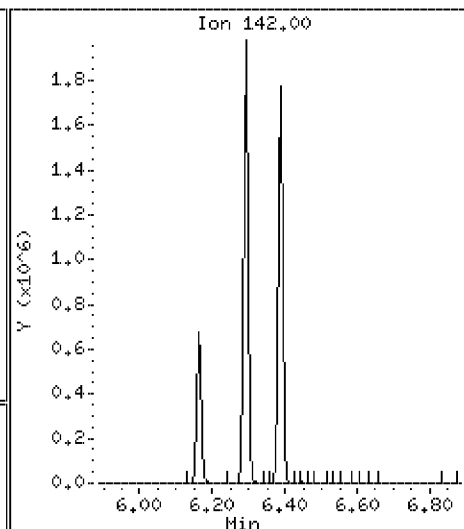
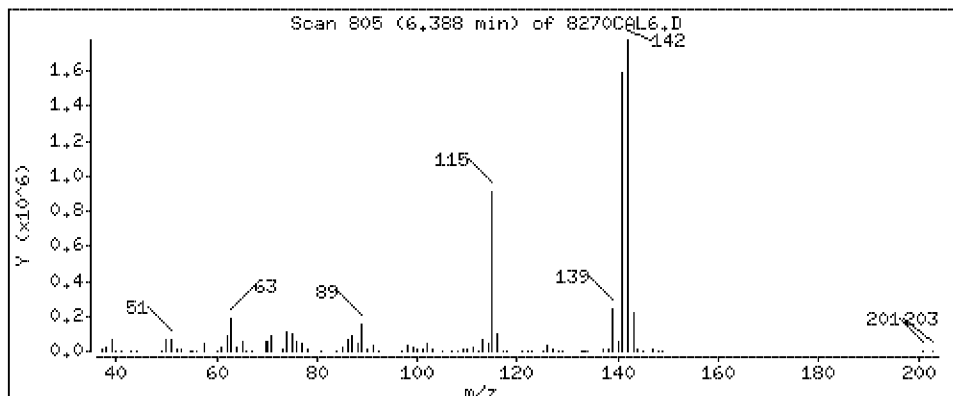
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

54 1-Methylnaphthalene

Concentration: 76.9 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

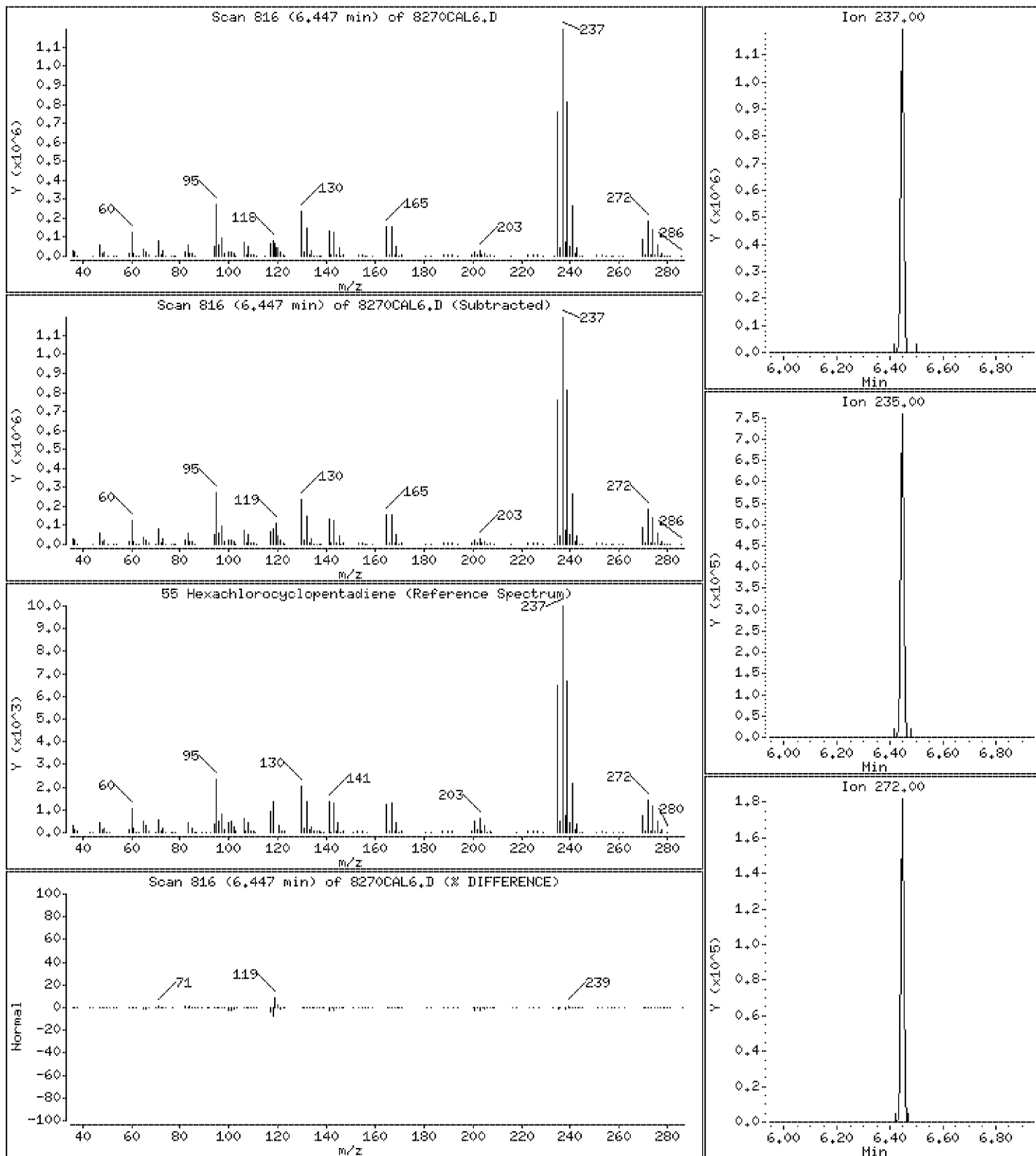
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

55 Hexachlorocyclopentadiene

Concentration: 79.6 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

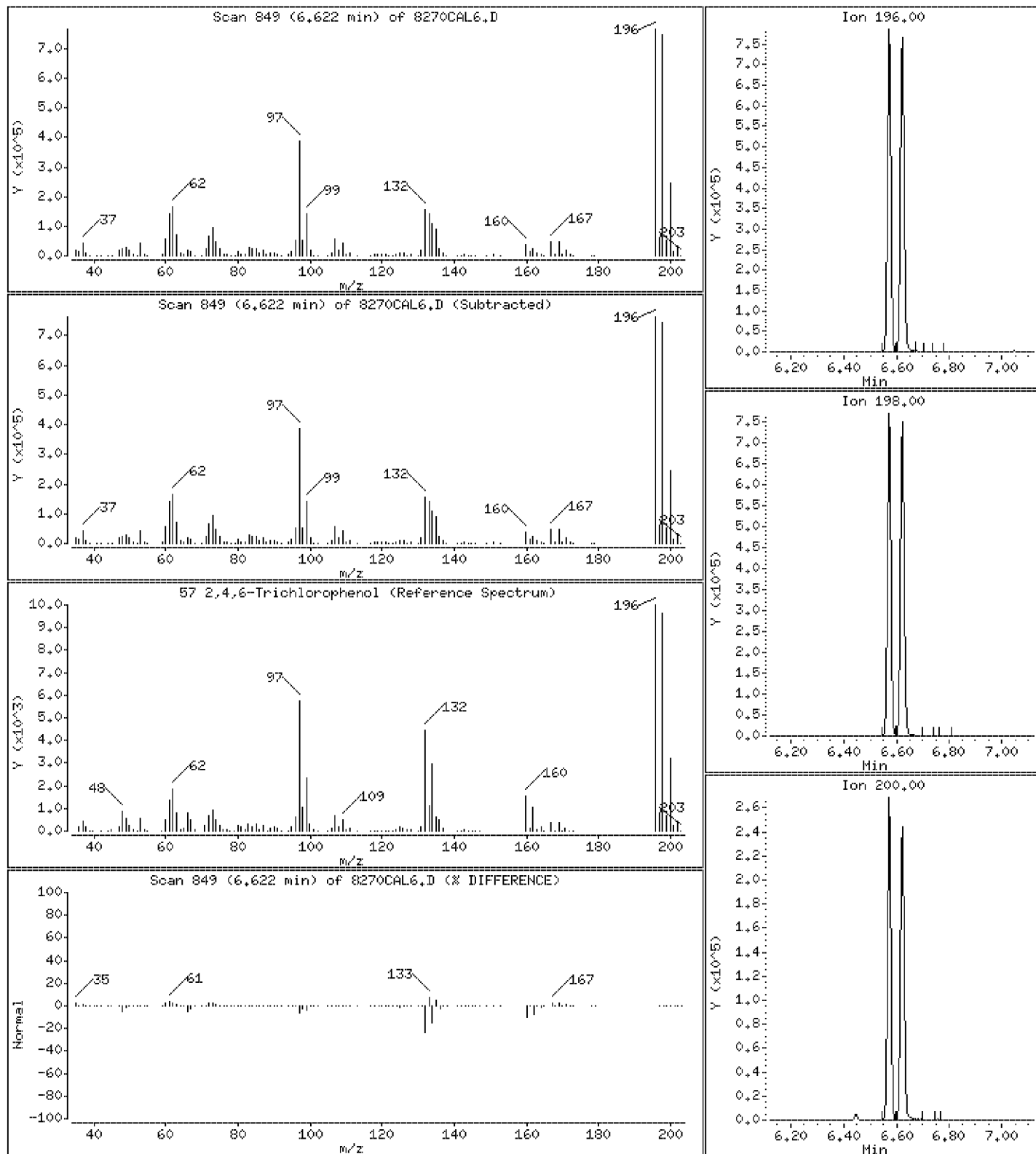
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

57 2,4,6-Trichlorophenol

Concentration: 77.9 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

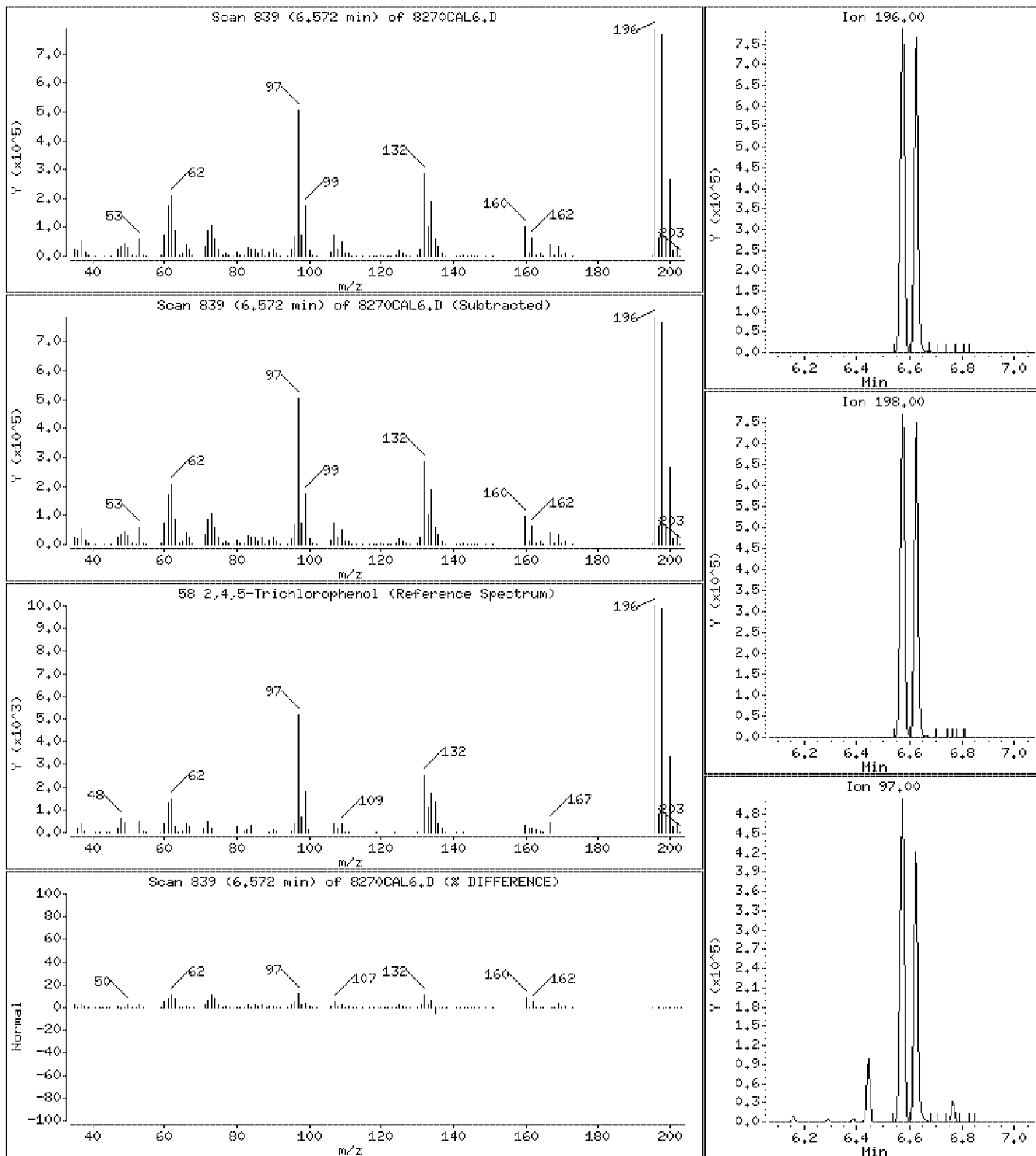
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

58 2,4,5-Trichlorophenol

Concentration: 79.2 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

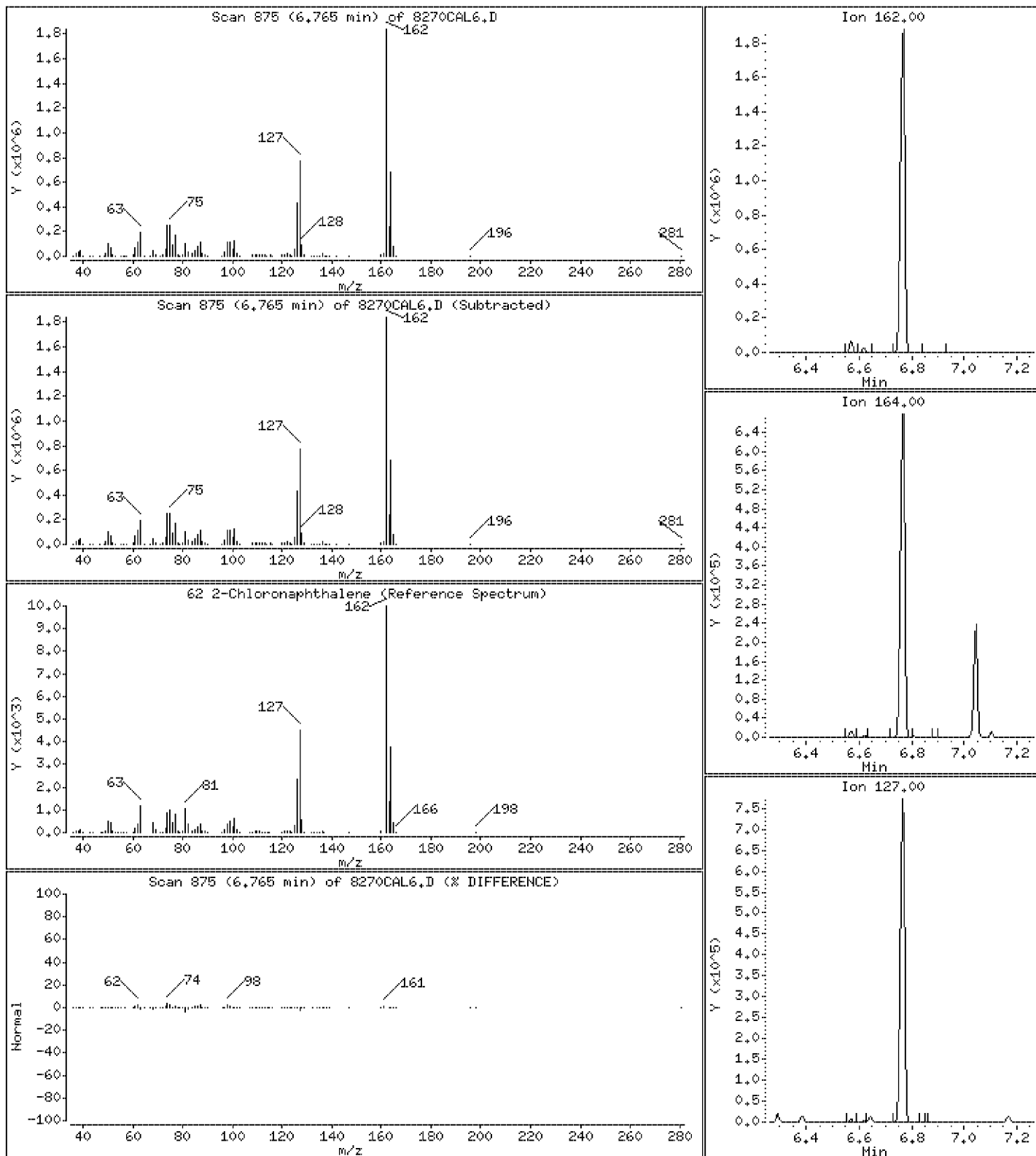
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

62 2-Chloronaphthalene

Concentration: 78.0 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

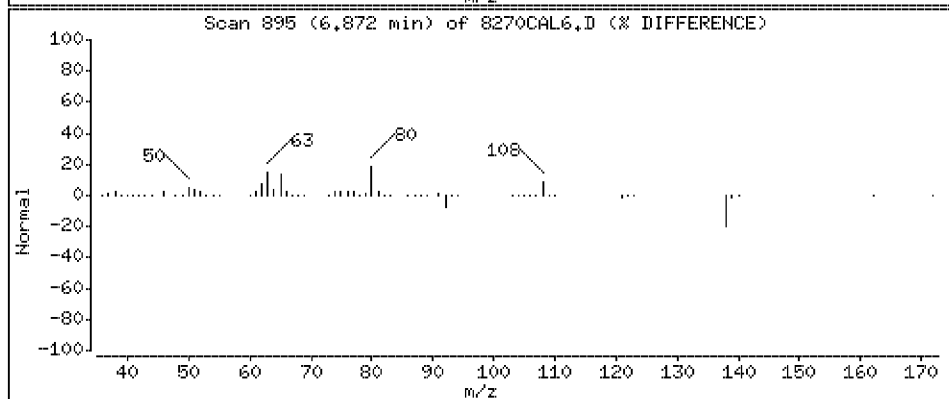
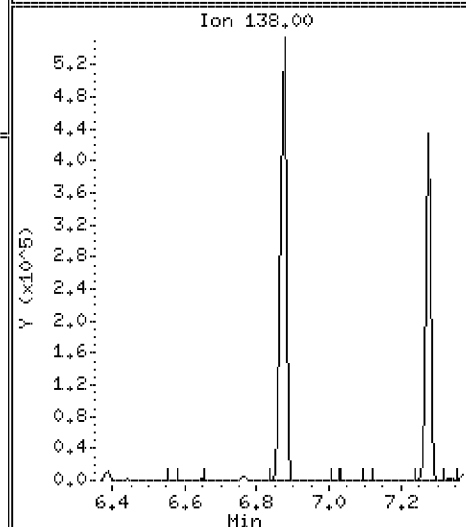
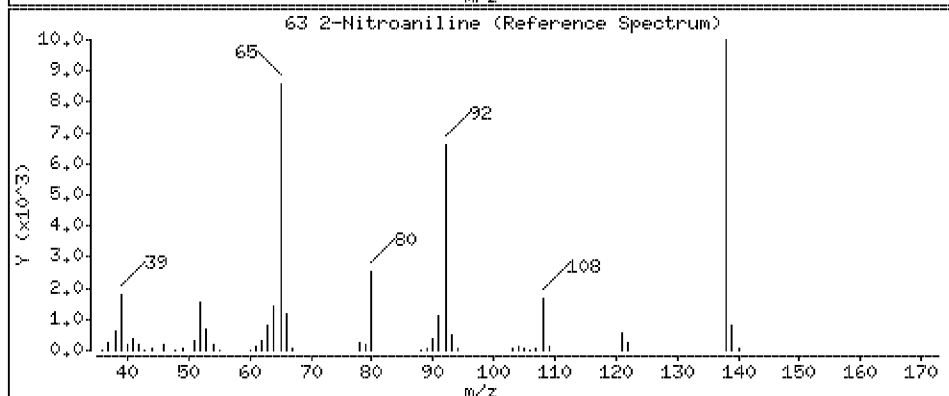
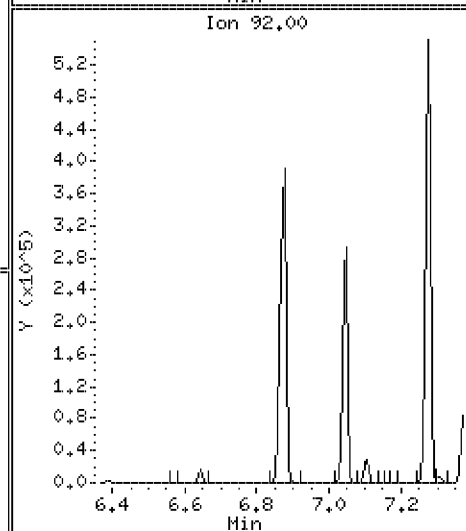
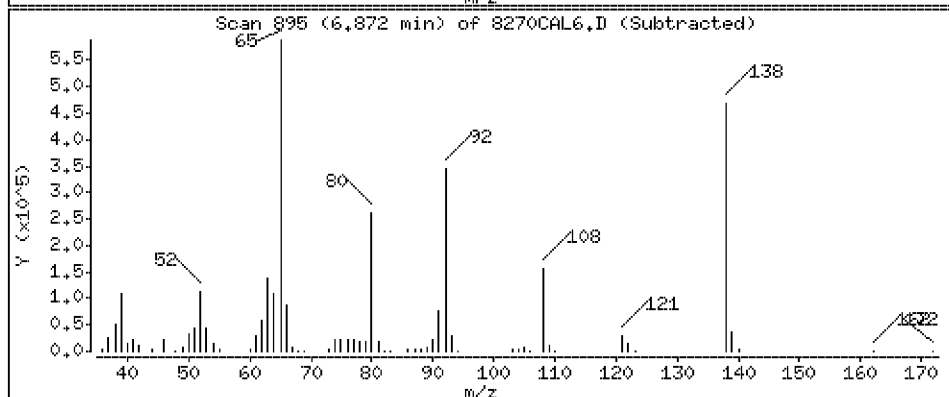
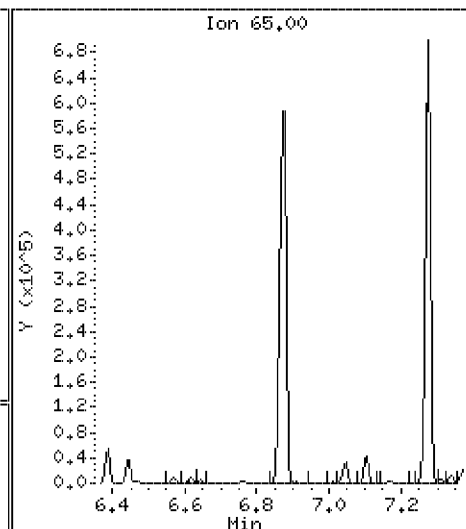
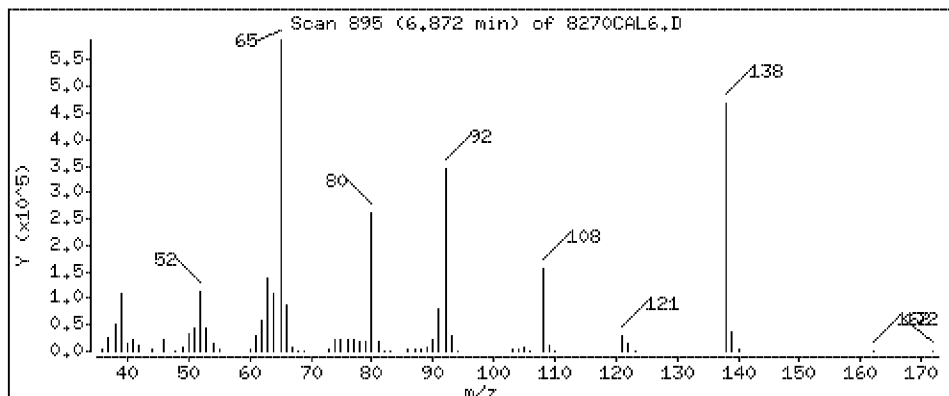
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

63 2-Nitroaniline

Concentration: 76.9 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

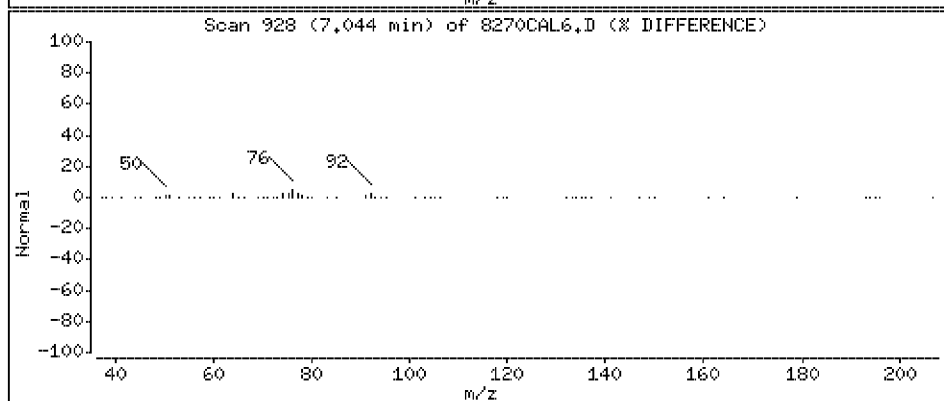
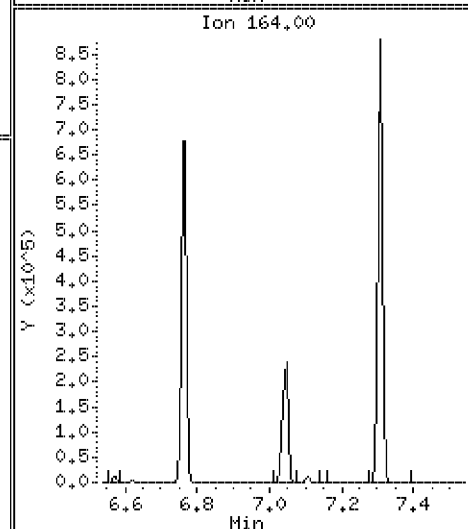
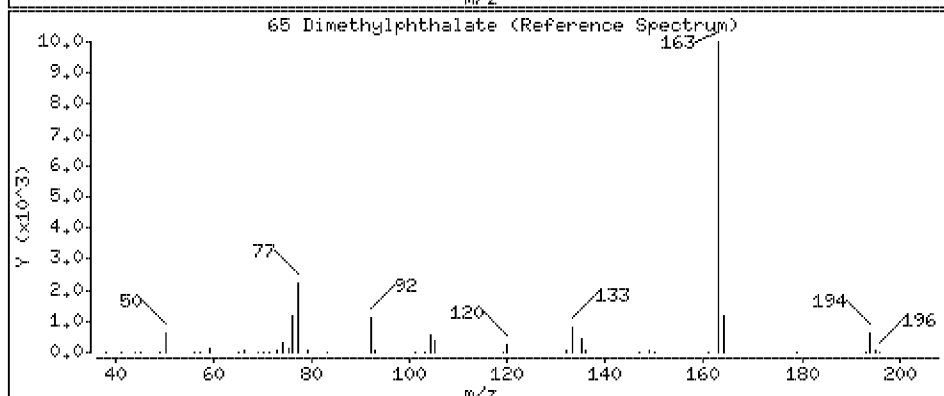
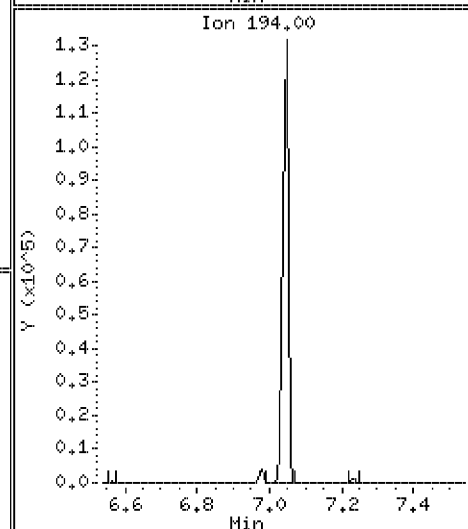
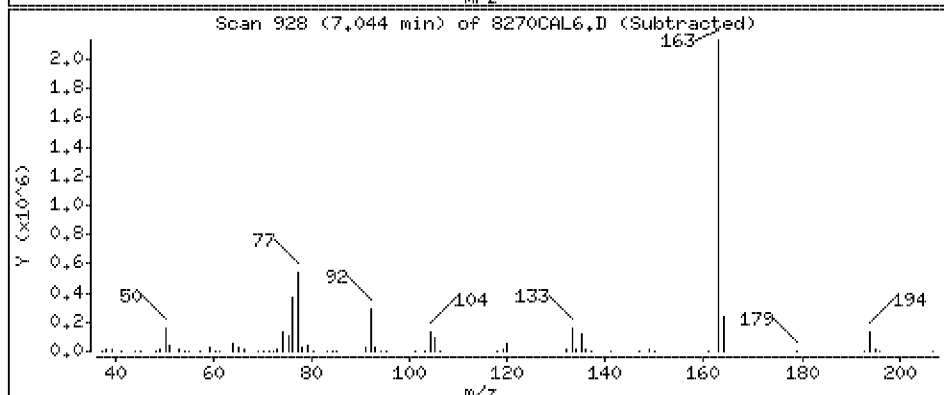
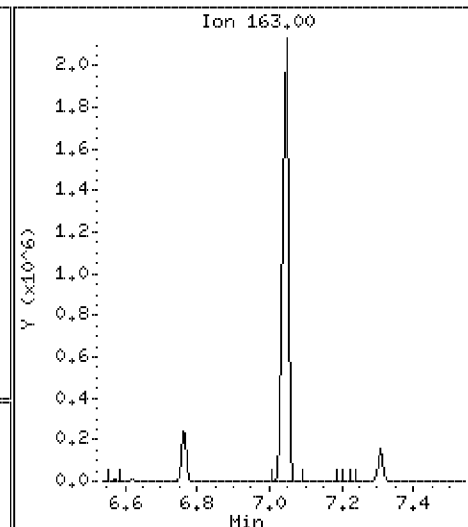
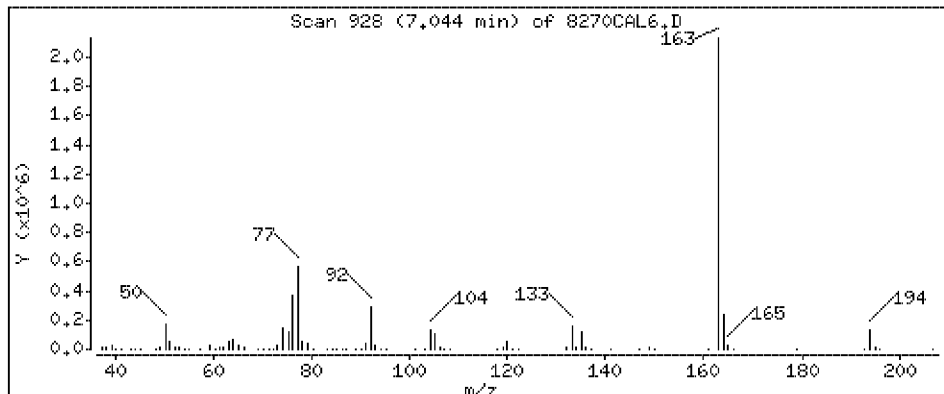
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

65 Dimethylphthalate

Concentration: 74.9 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

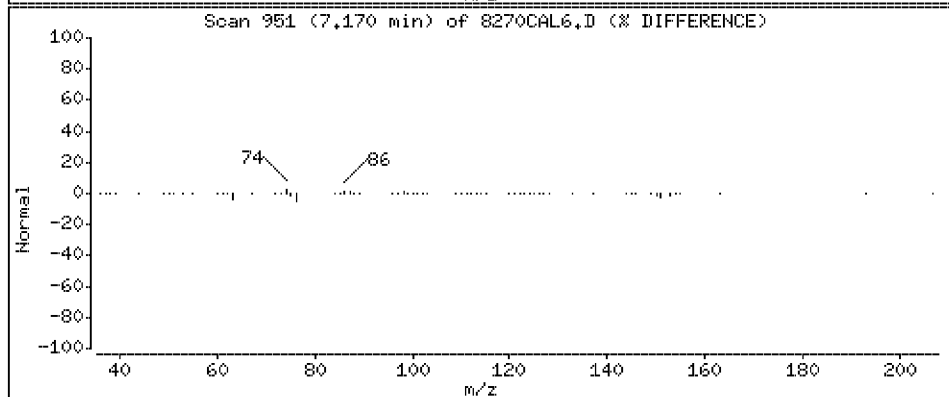
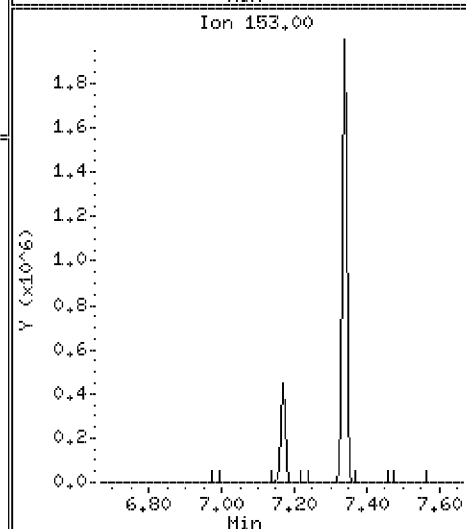
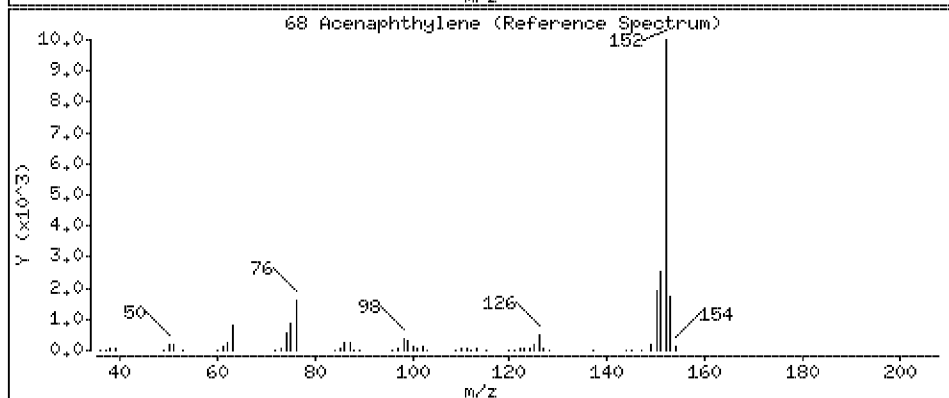
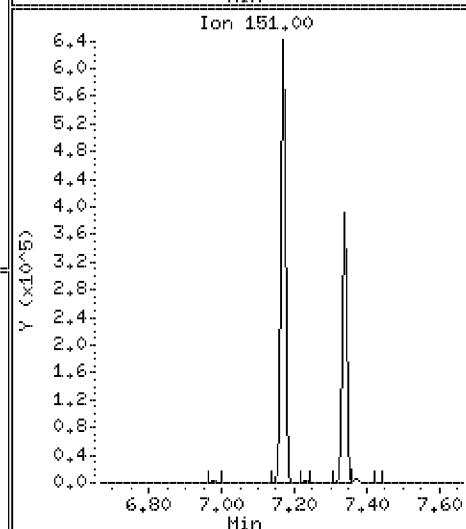
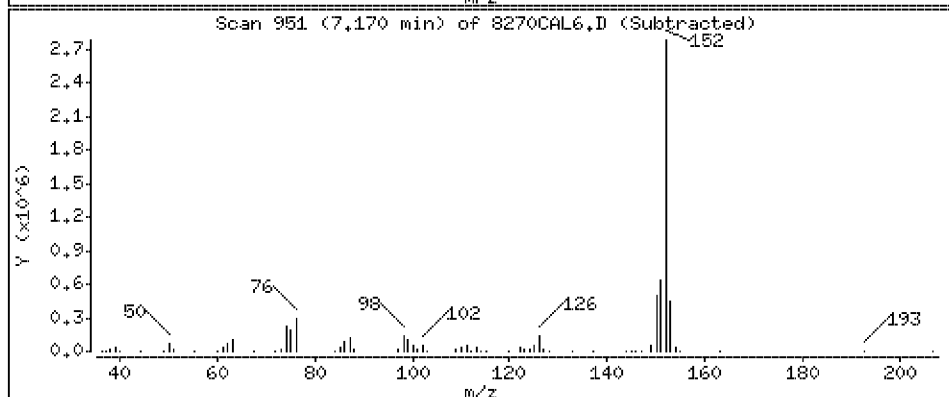
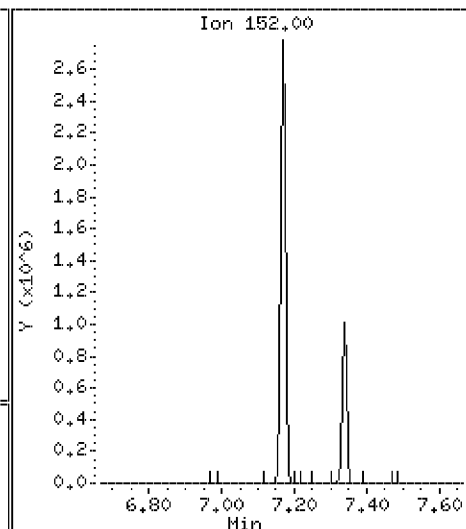
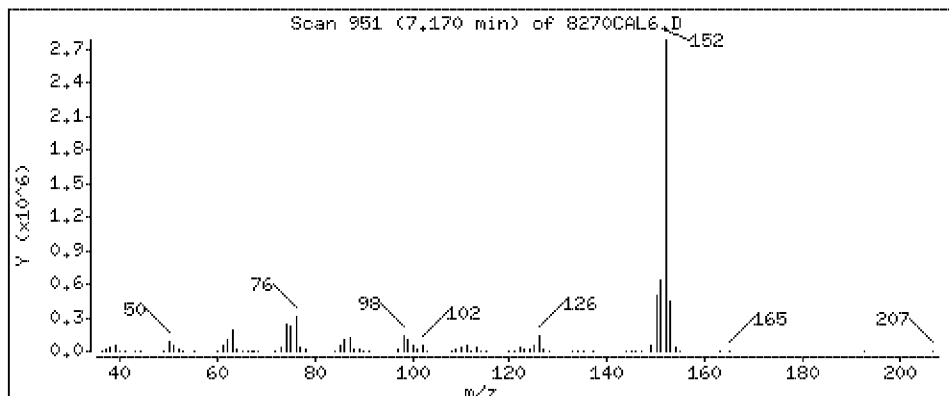
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

68 Acenaphthylene

Concentration: 76.5 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

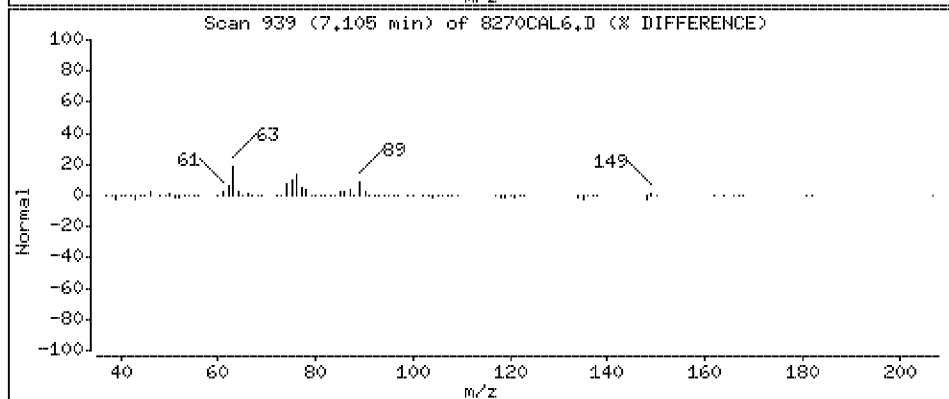
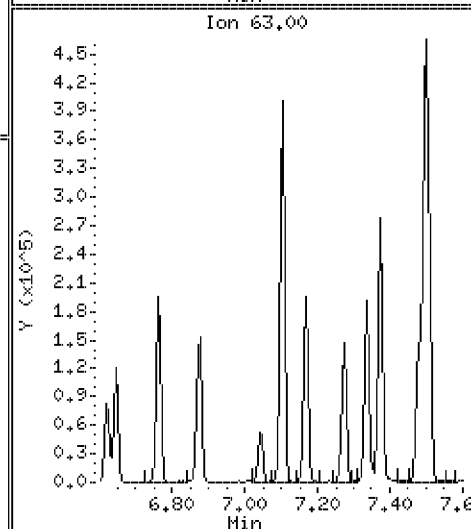
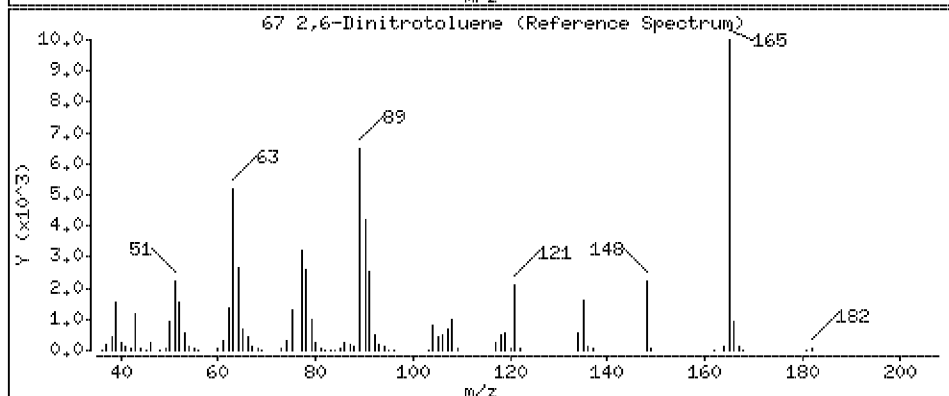
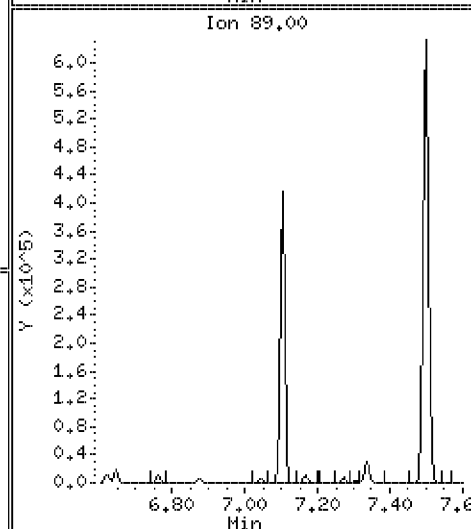
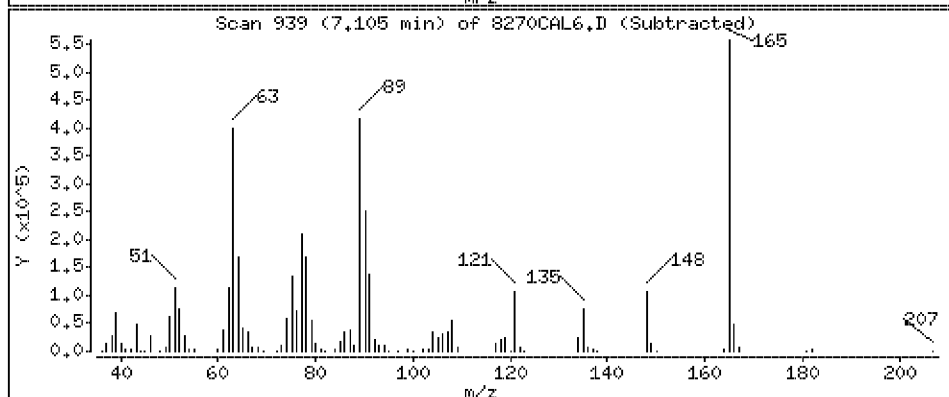
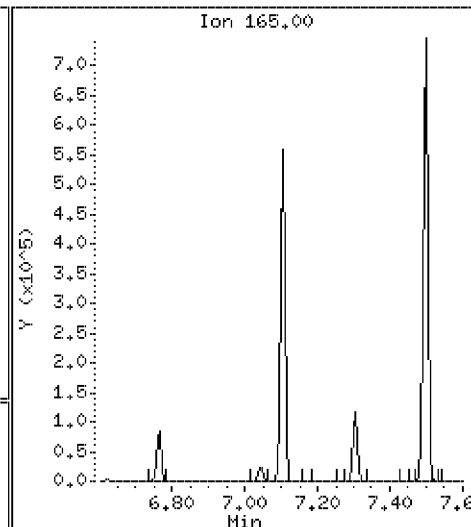
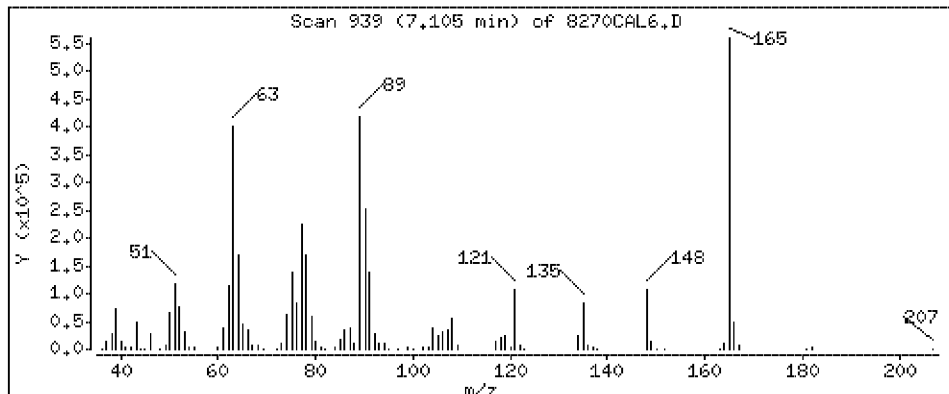
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

67 2,6-Dinitrotoluene

Concentration: 79.3 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

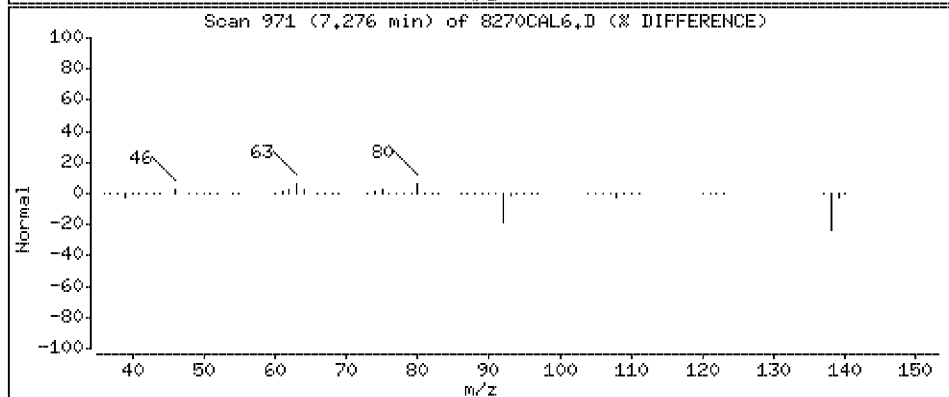
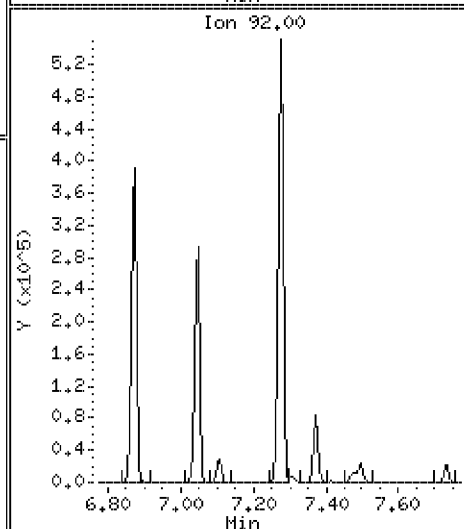
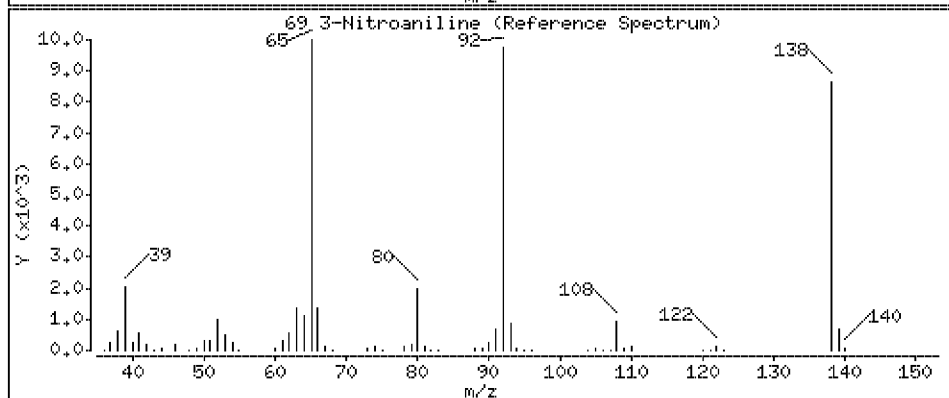
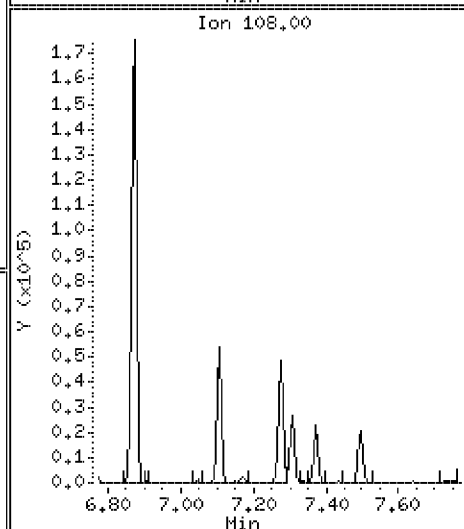
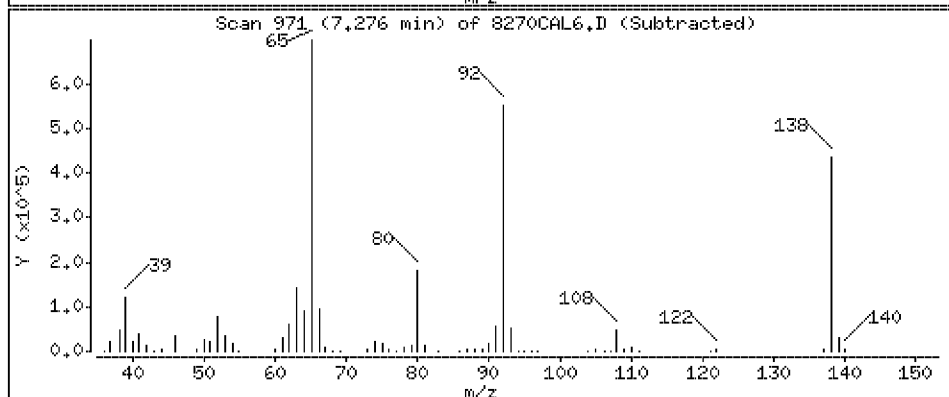
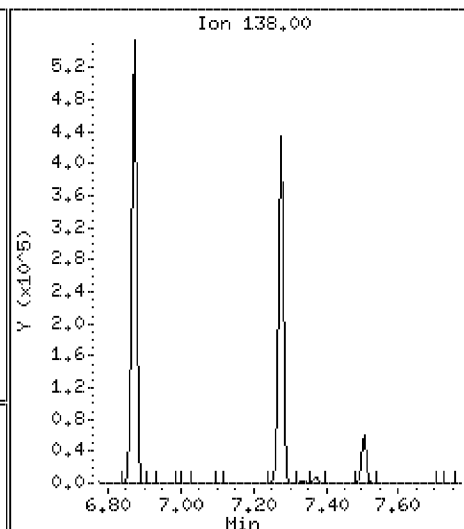
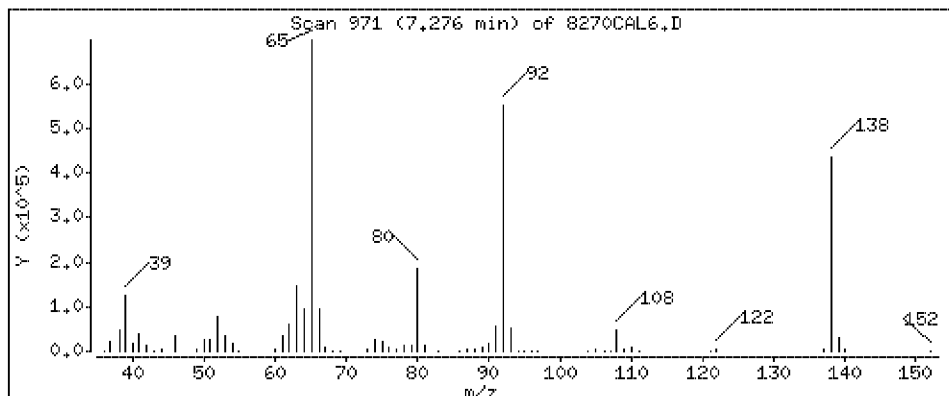
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

69 3-Nitroaniline

Concentration: 77.1 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

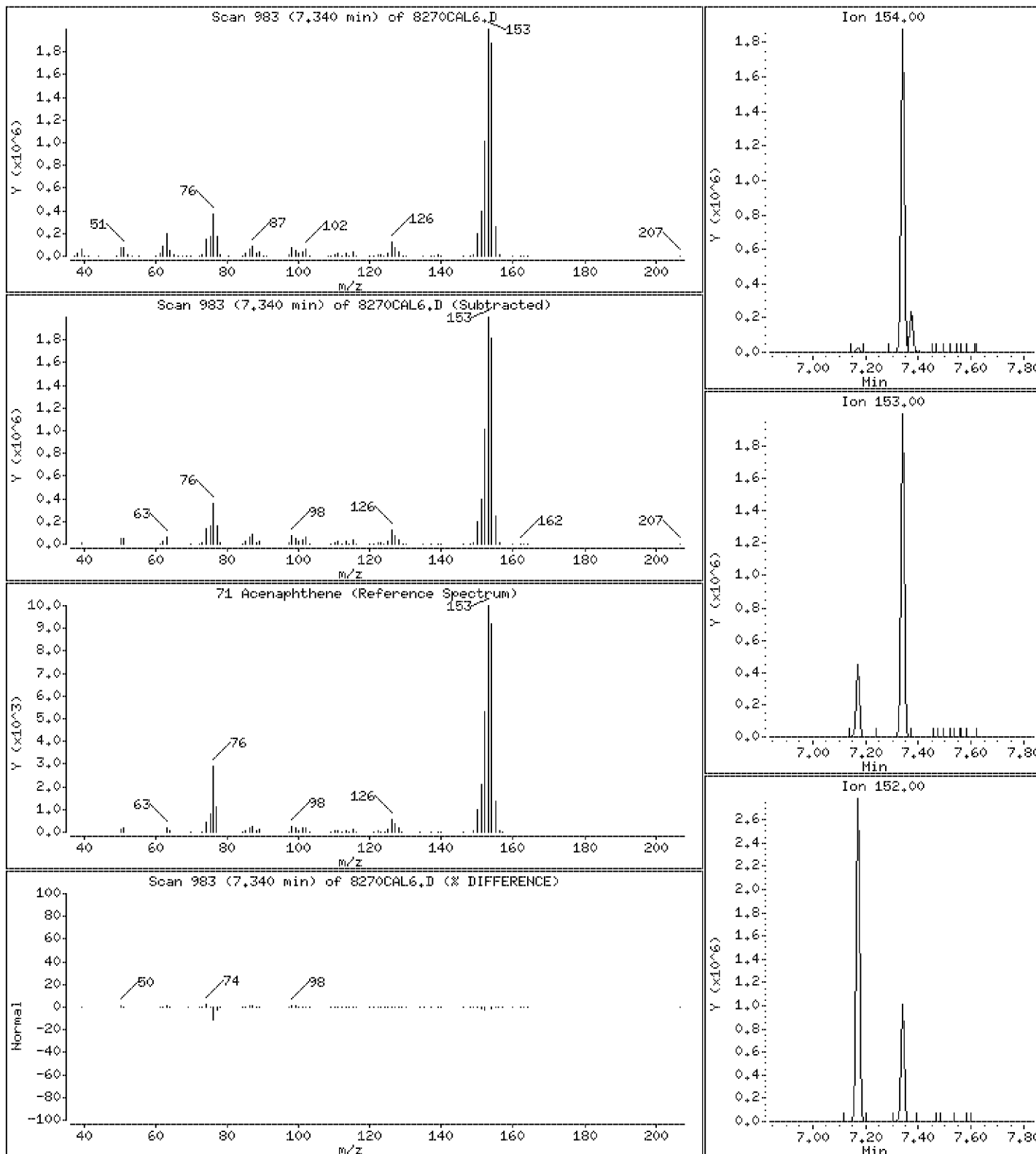
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

71 Acenaphthene

Concentration: 78.9 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

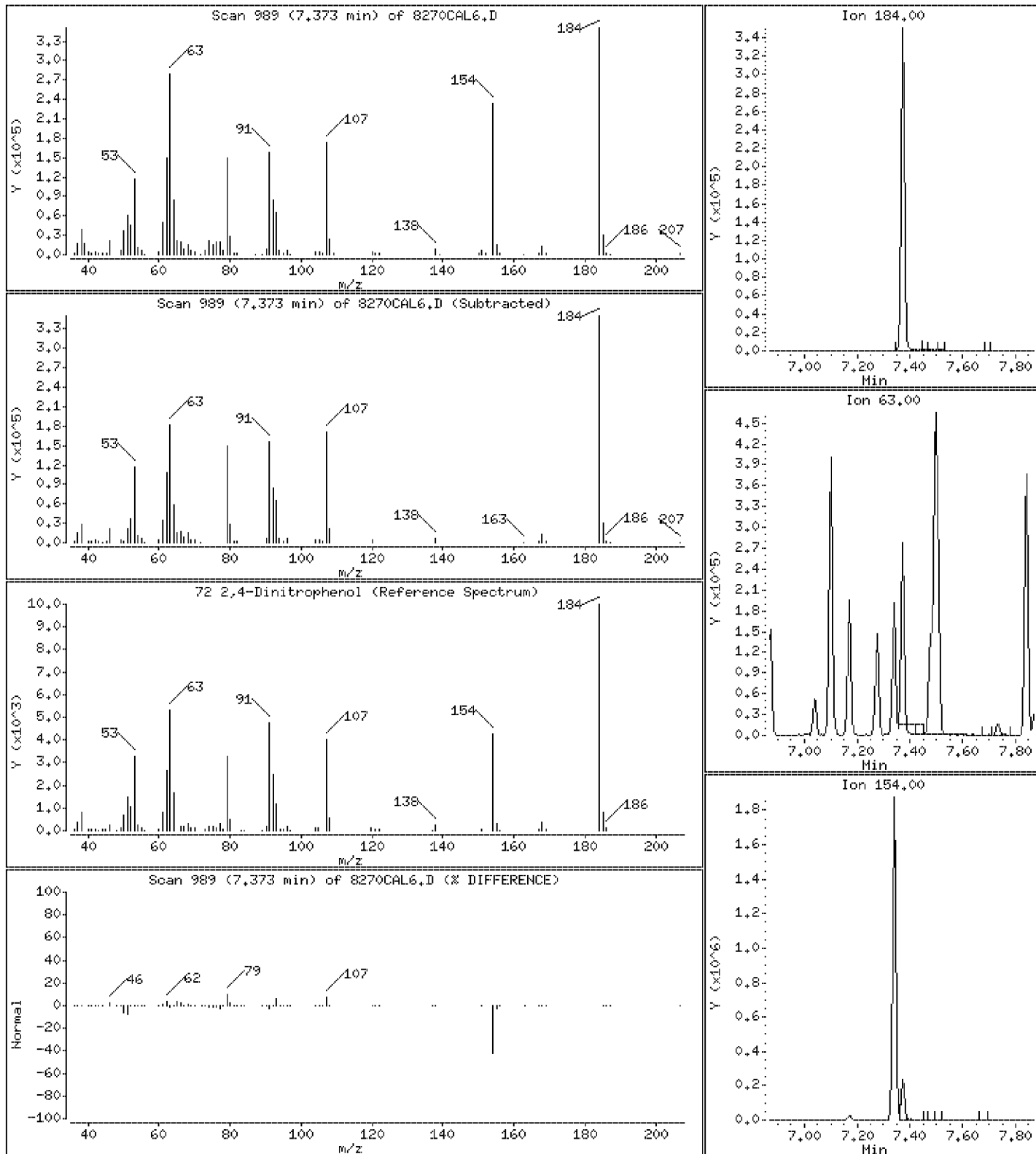
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

72 2,4-Dinitrophenol

Concentration: 75.3 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

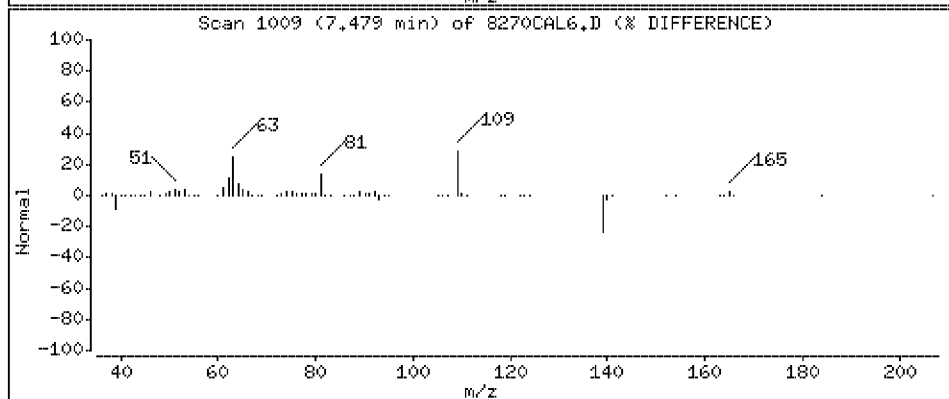
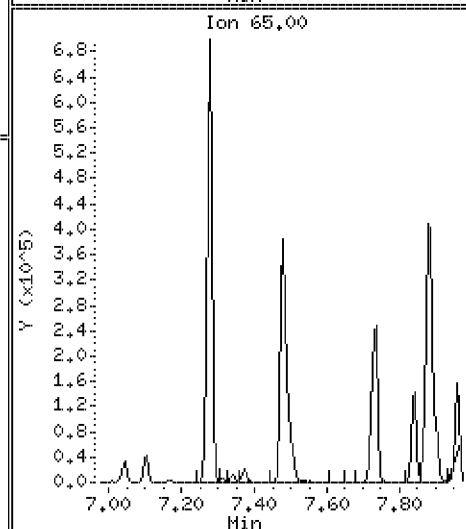
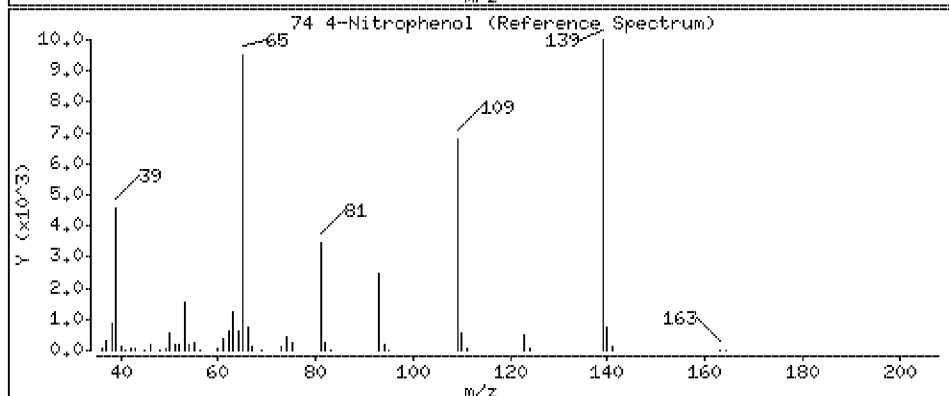
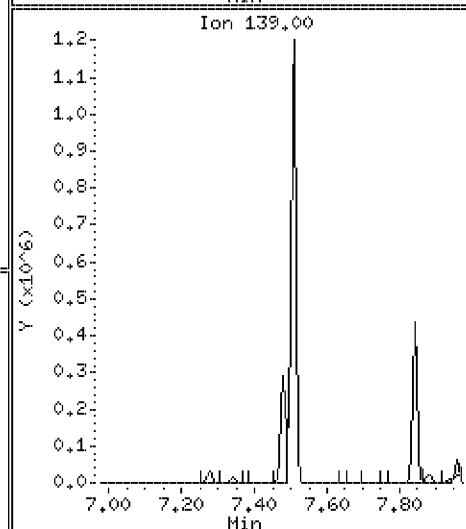
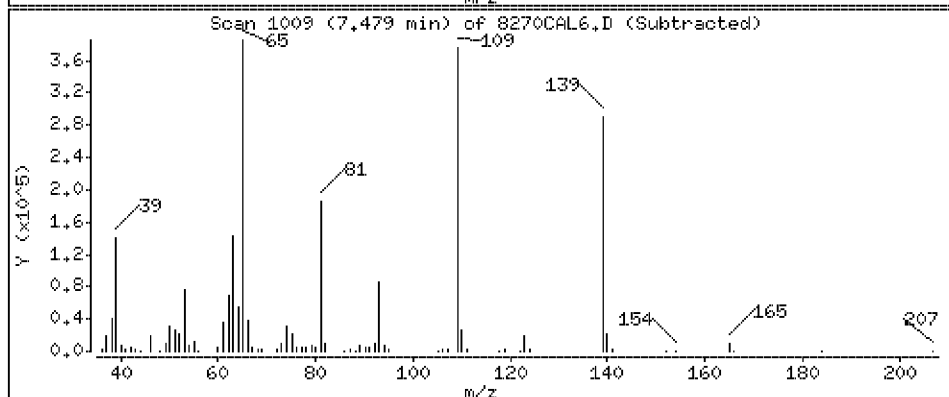
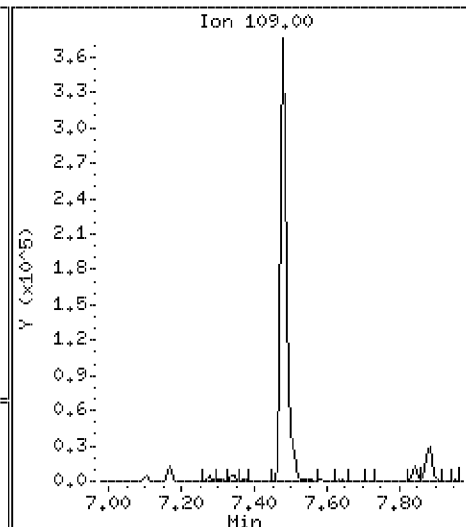
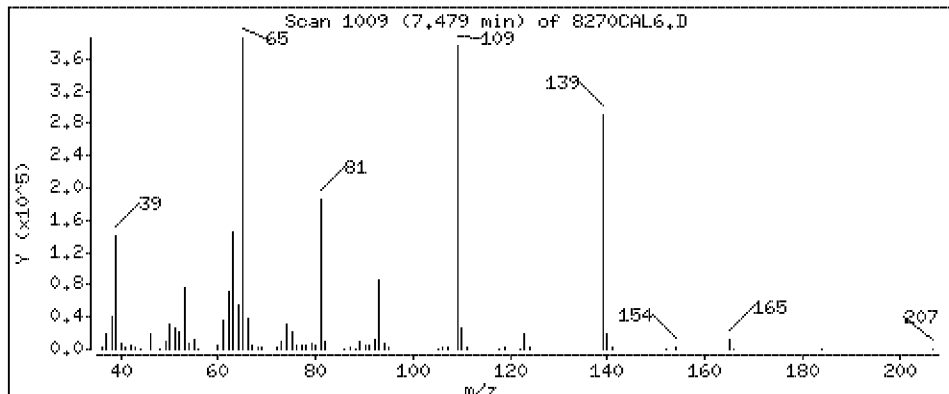
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

74 4-Nitrophenol

Concentration: 78.5 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

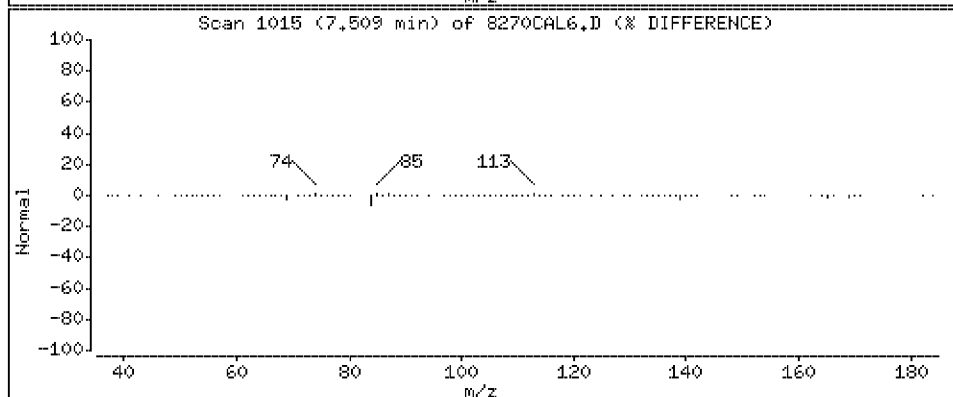
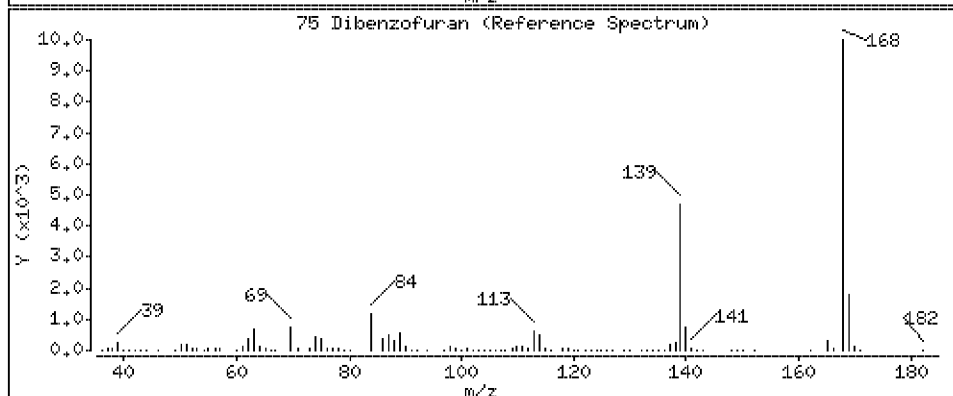
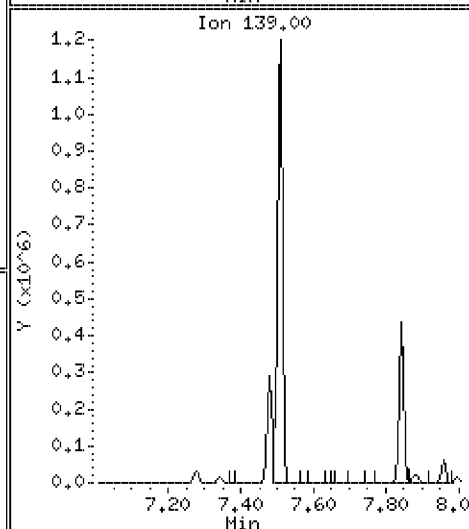
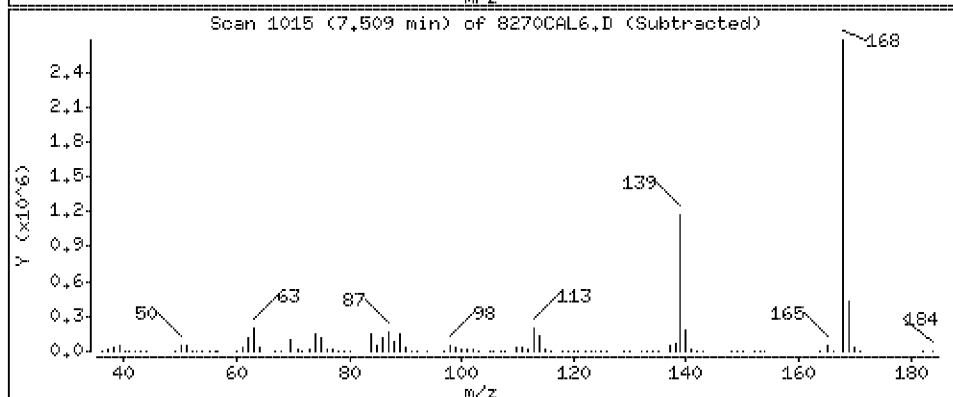
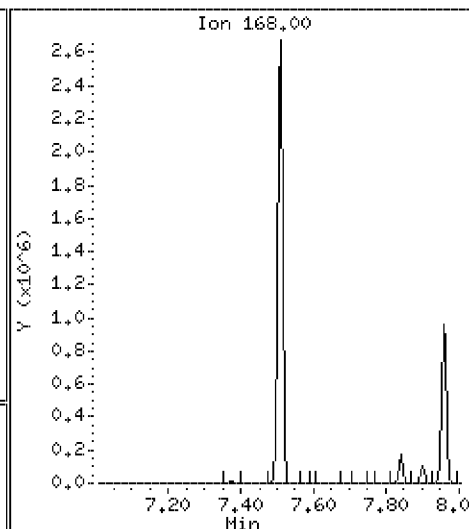
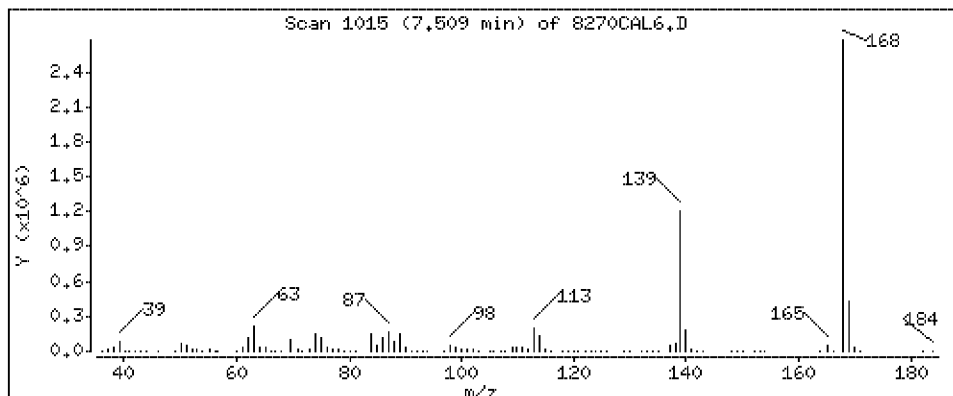
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

75 Dibenzofuran

Concentration: 76.2 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

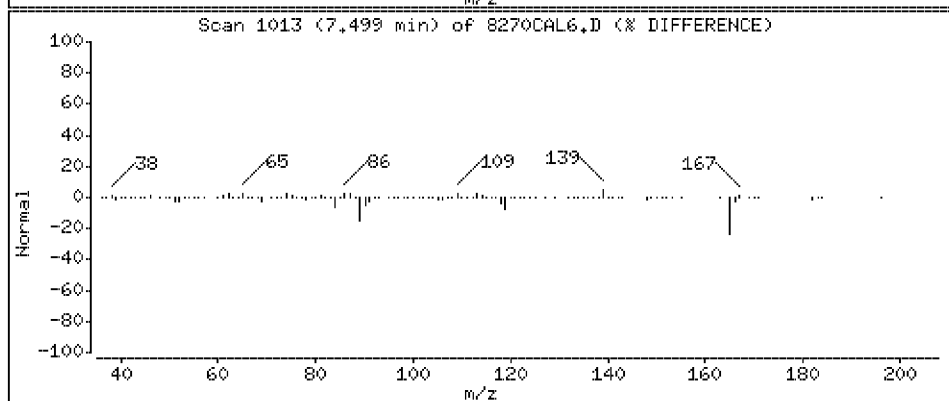
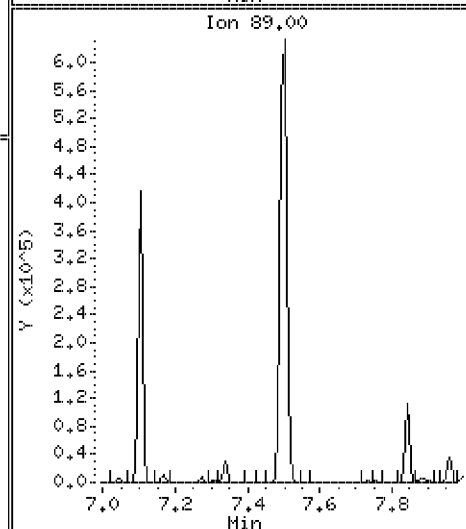
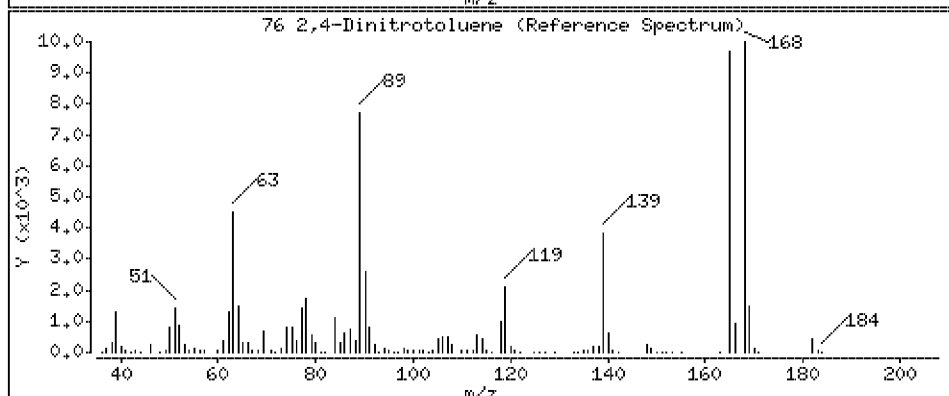
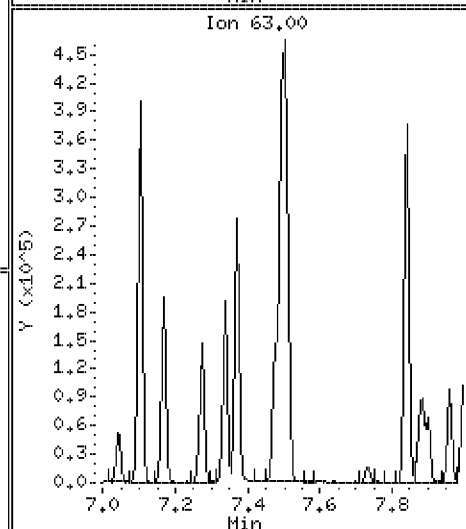
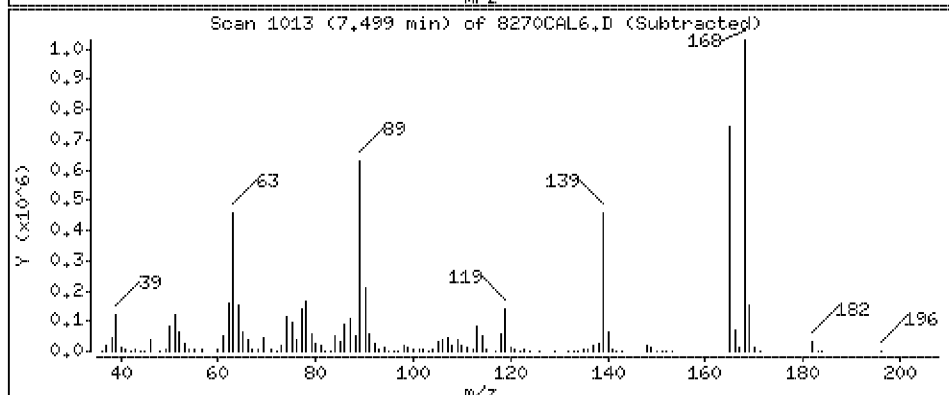
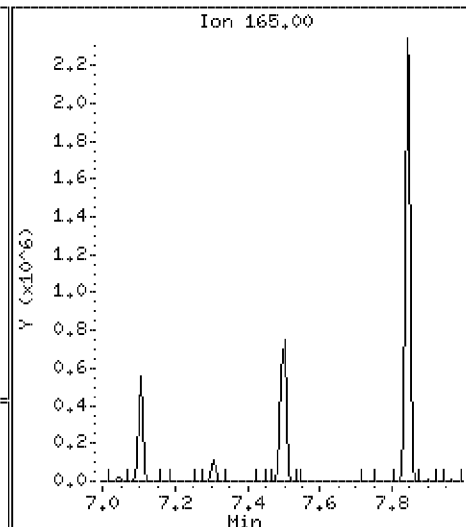
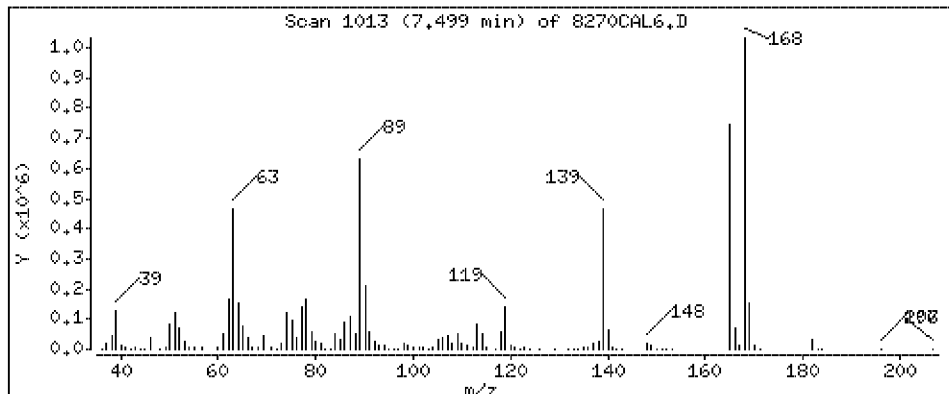
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

76 2,4-Dinitrotoluene

Concentration: 80.2 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

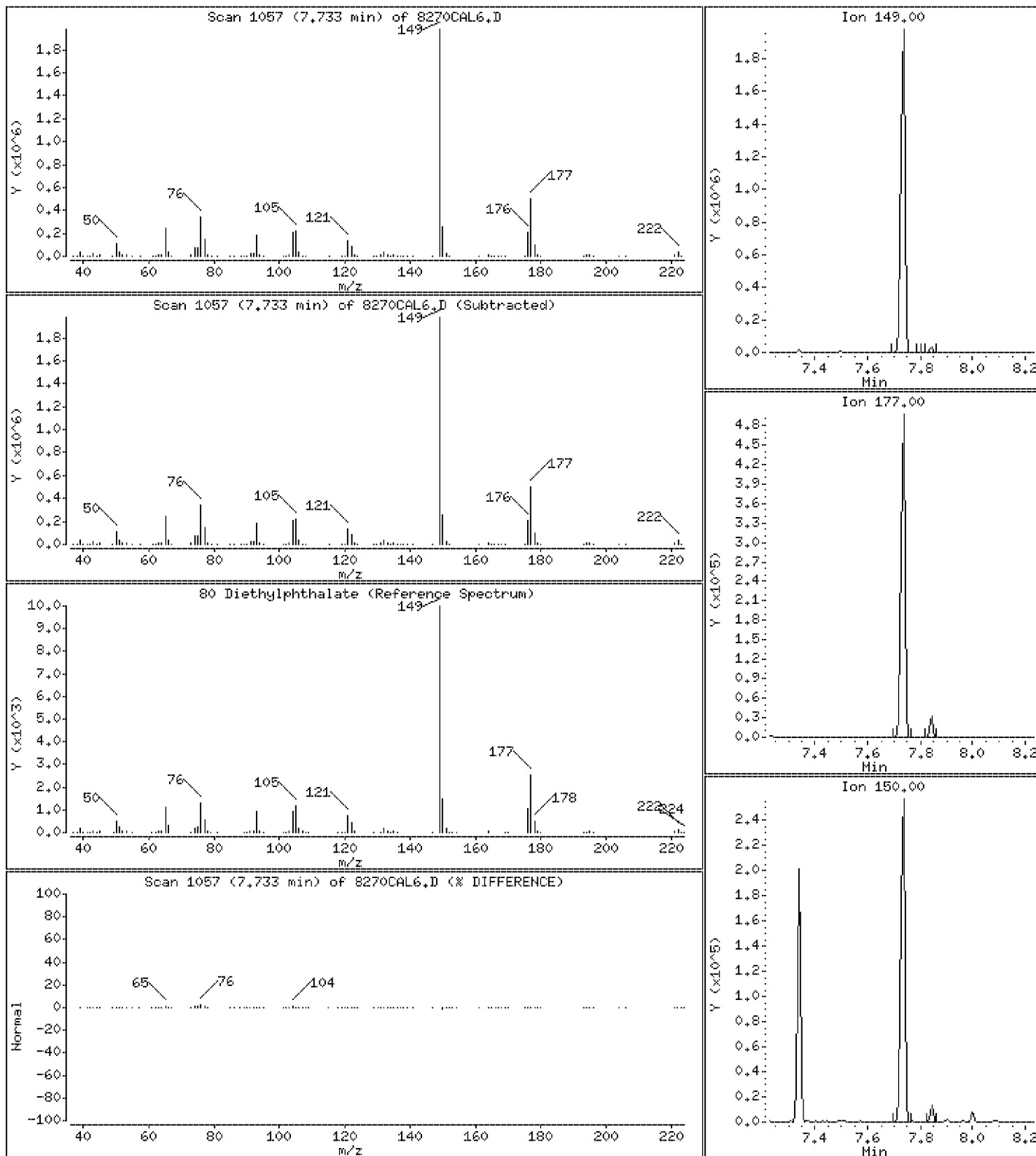
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

80 Diethylphthalate

Concentration: 74.9 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

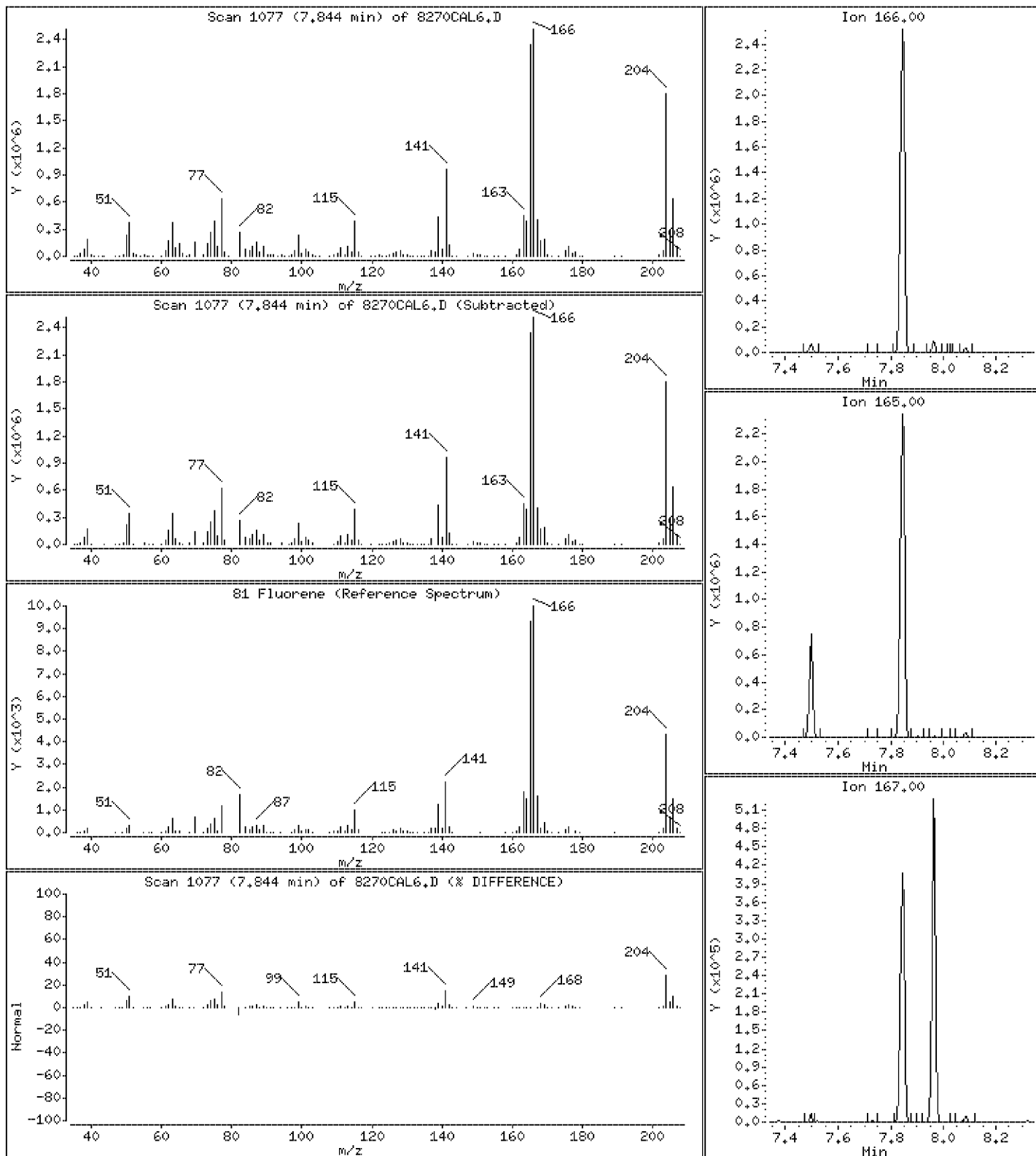
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

81 Fluorene

Concentration: 81.0 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

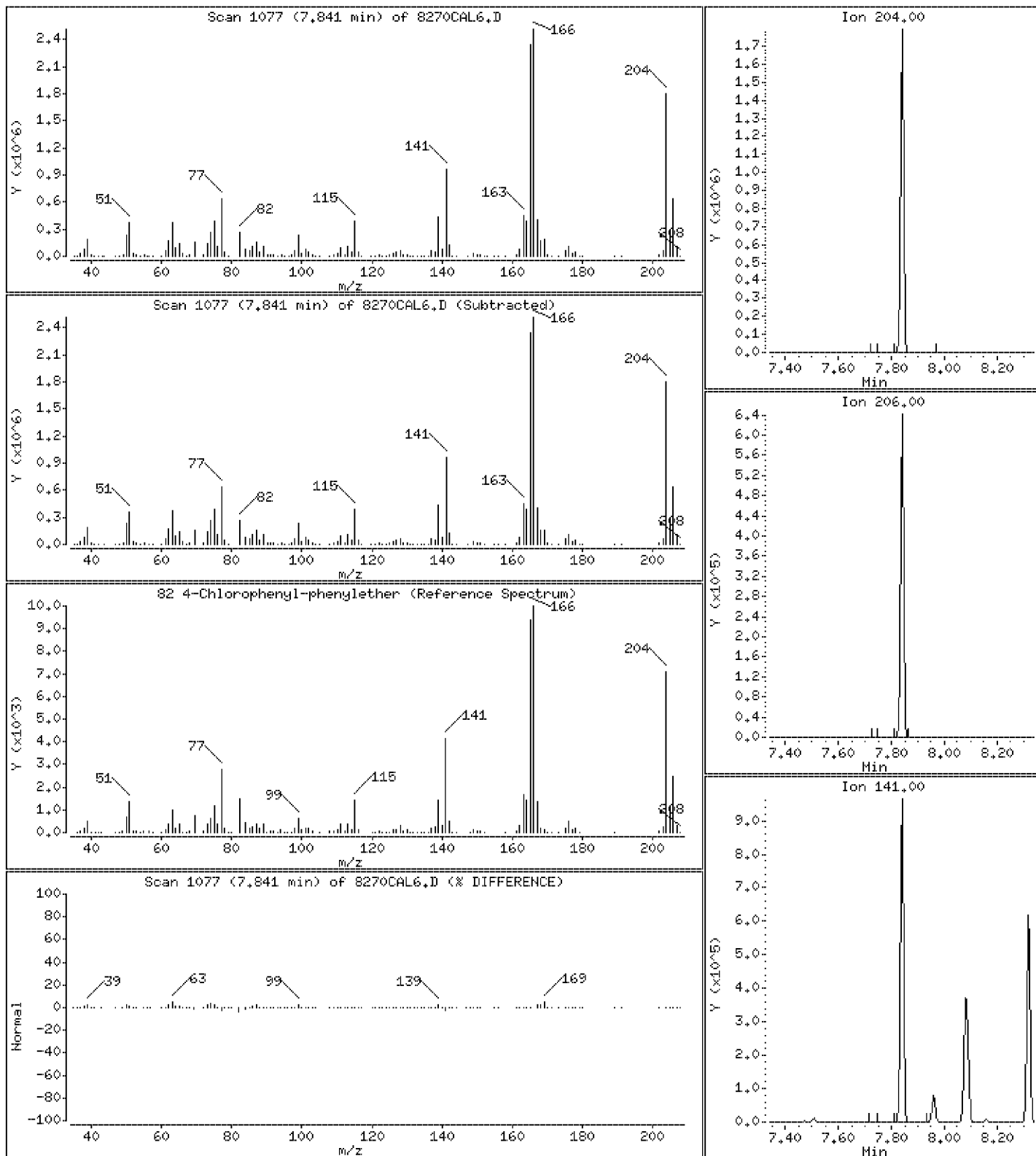
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

82 4-Chlorophenyl-phenylether

Concentration: 82.4 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

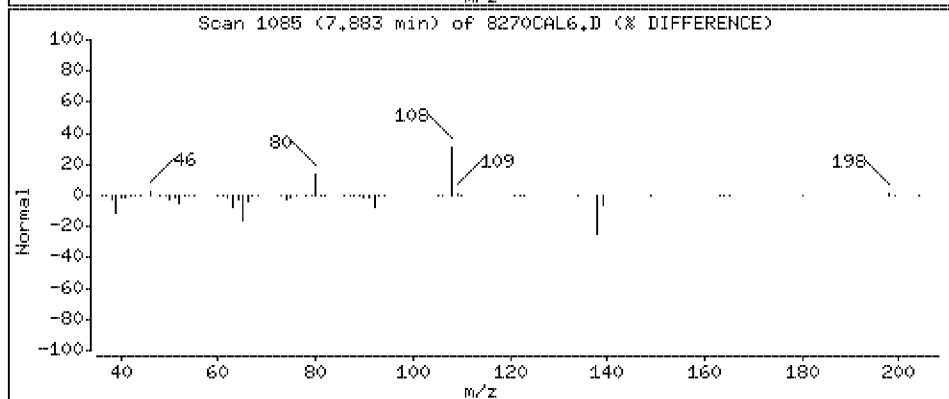
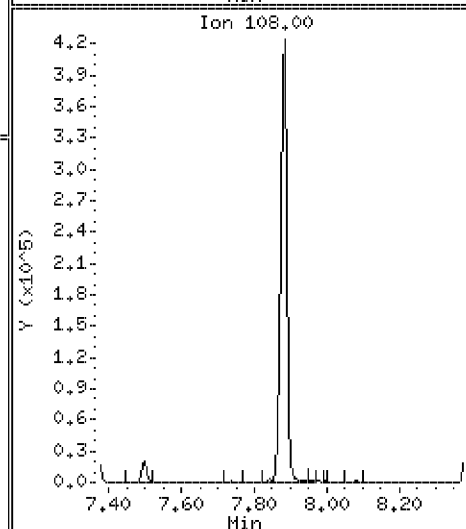
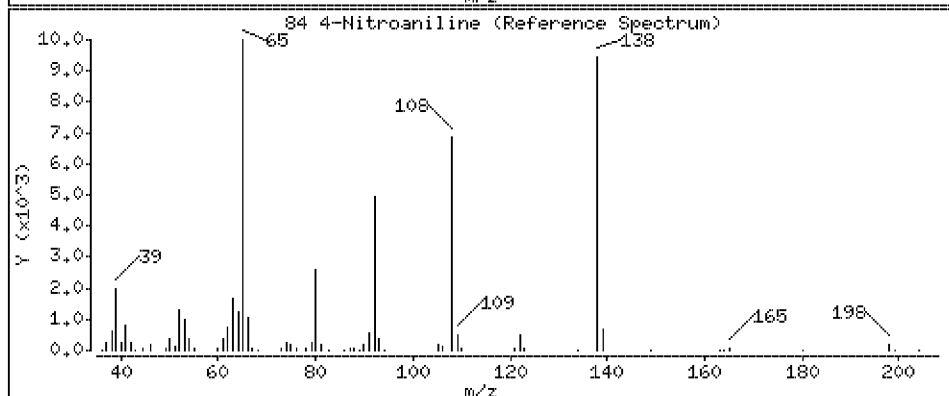
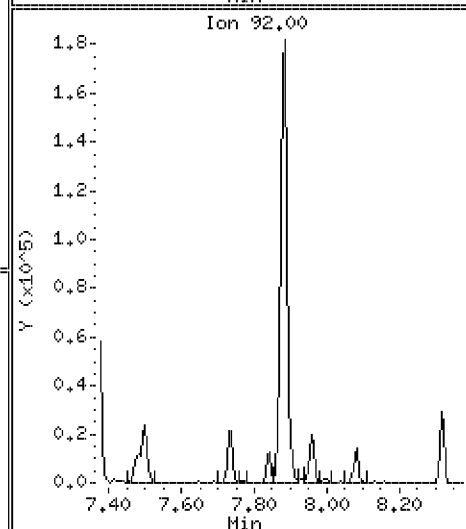
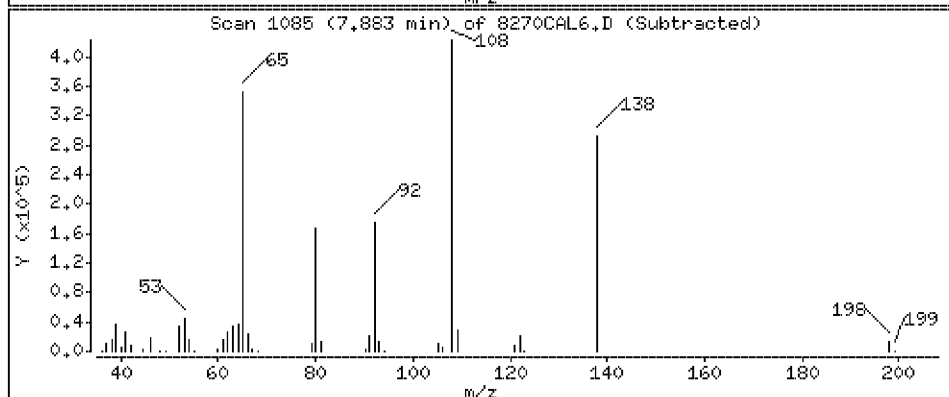
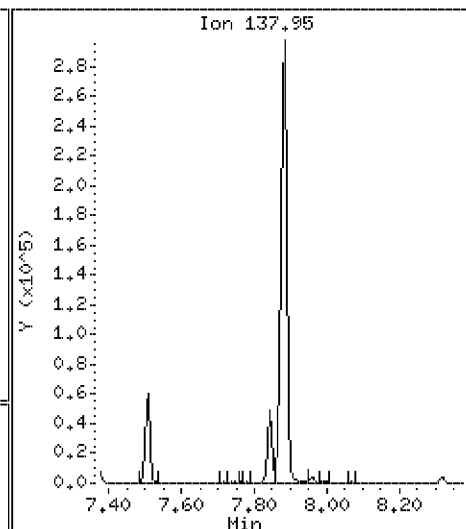
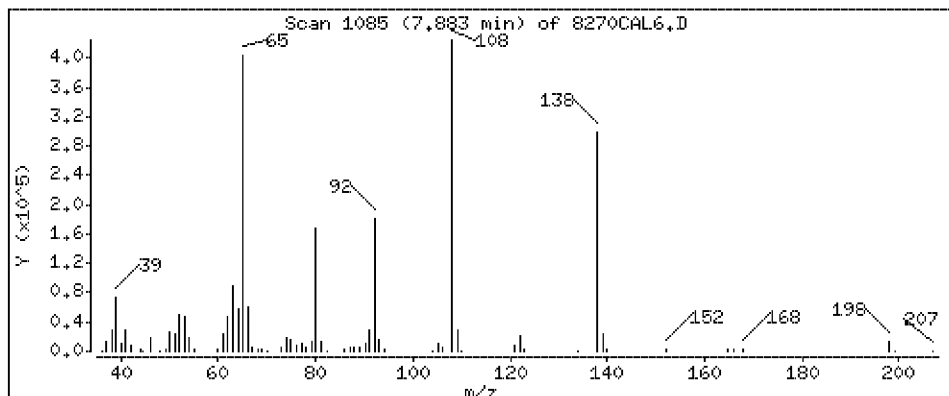
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

84 4-Nitroaniline

Concentration: 76.0 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

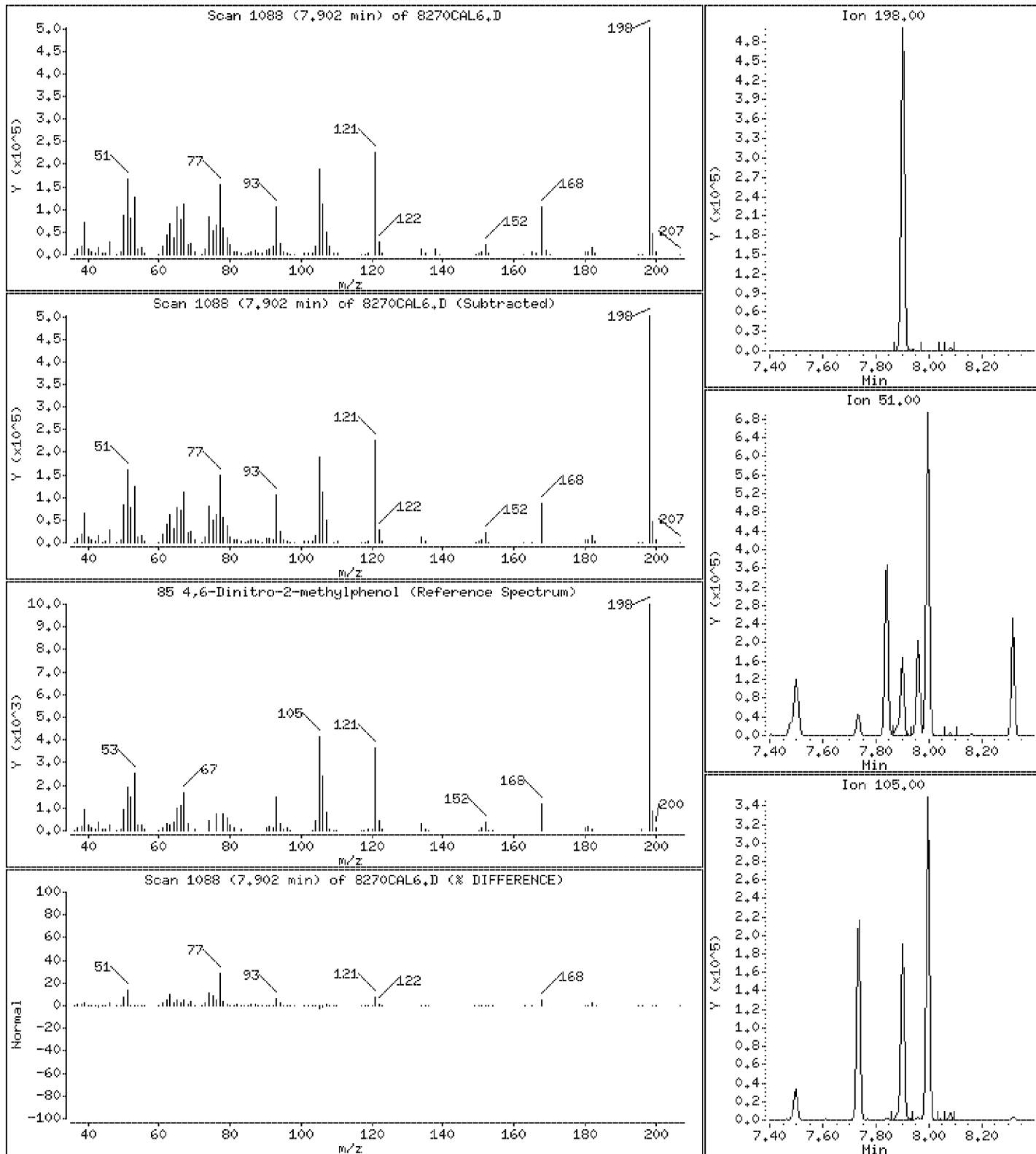
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

85 4,6-Dinitro-2-methylphenol

Concentration: 74.1 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

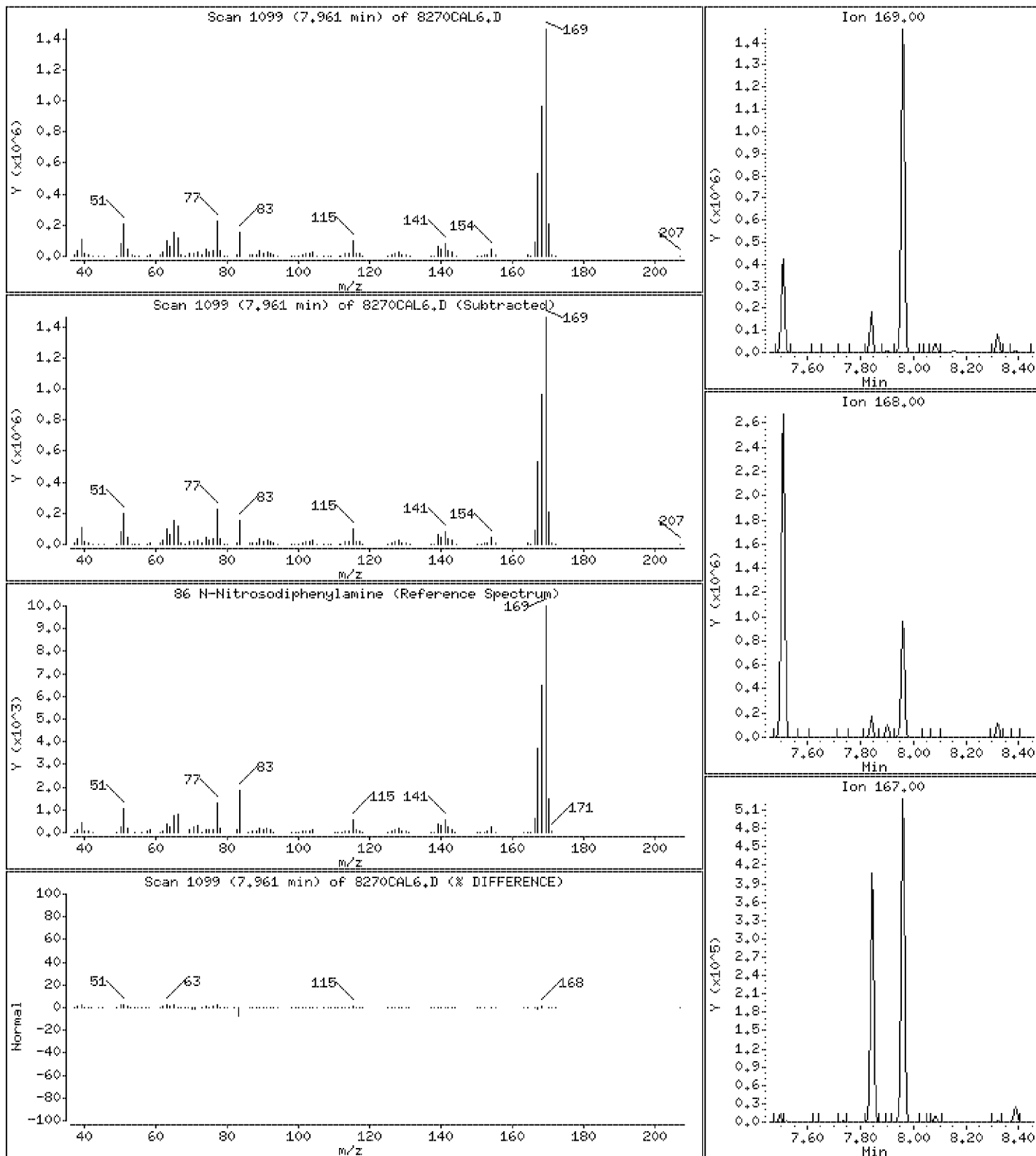
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

86 N-Nitrosodiphenylamine

Concentration: 77.4 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

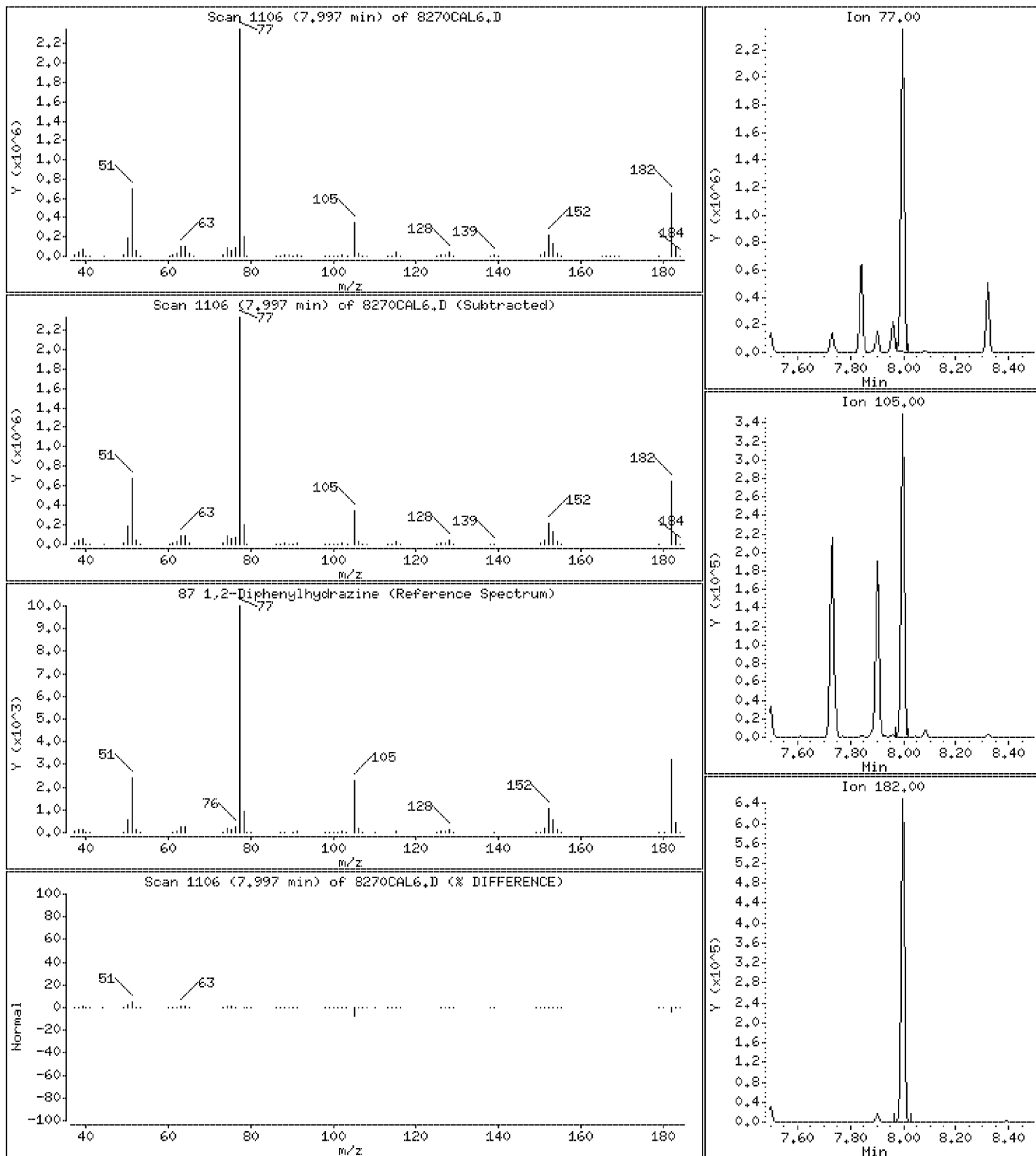
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

87 1,2-Diphenylhydrazine

Concentration: 73.7 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

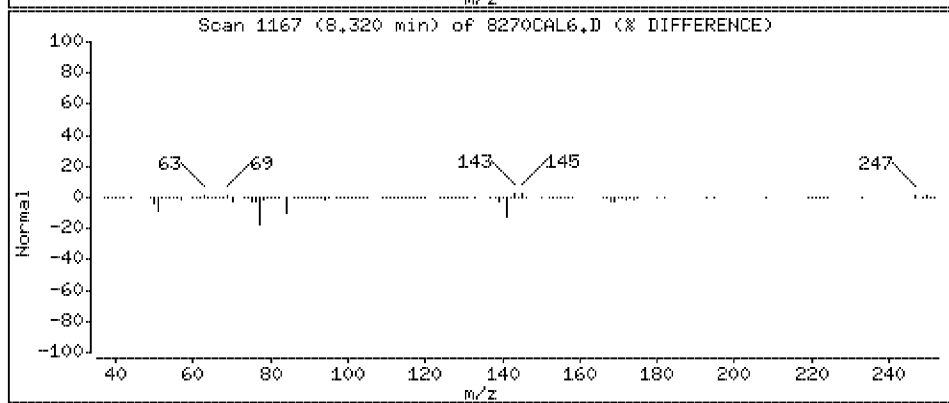
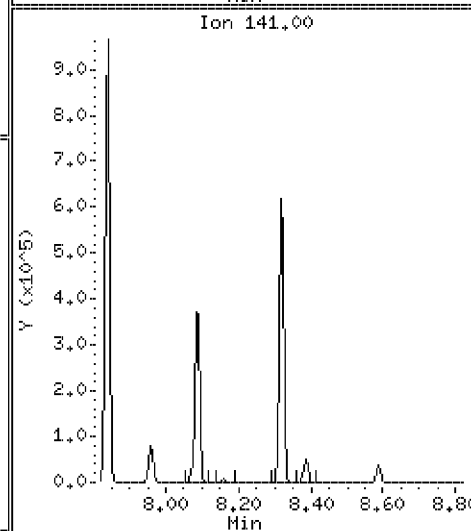
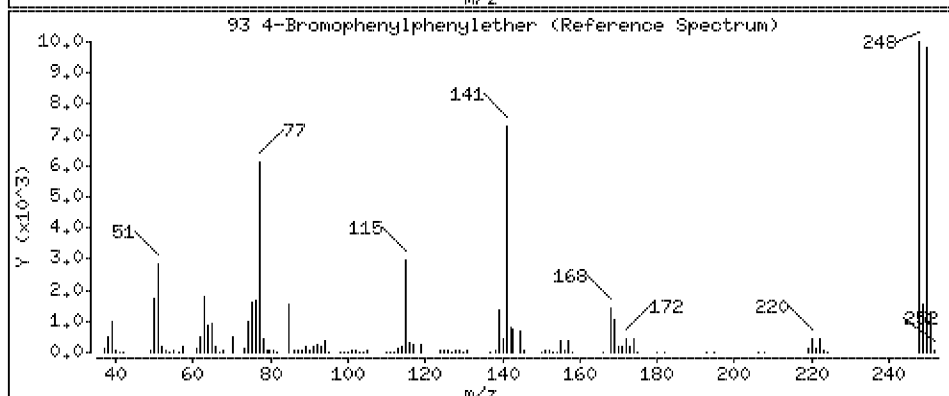
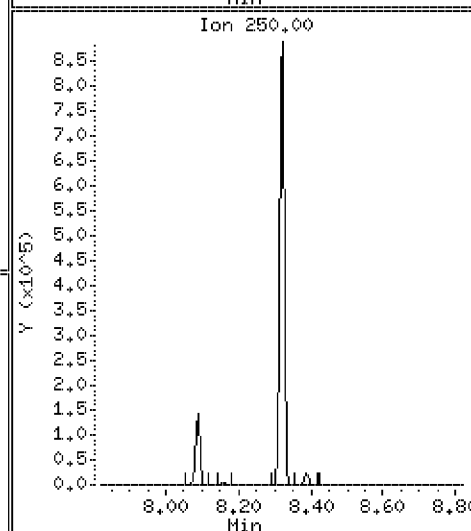
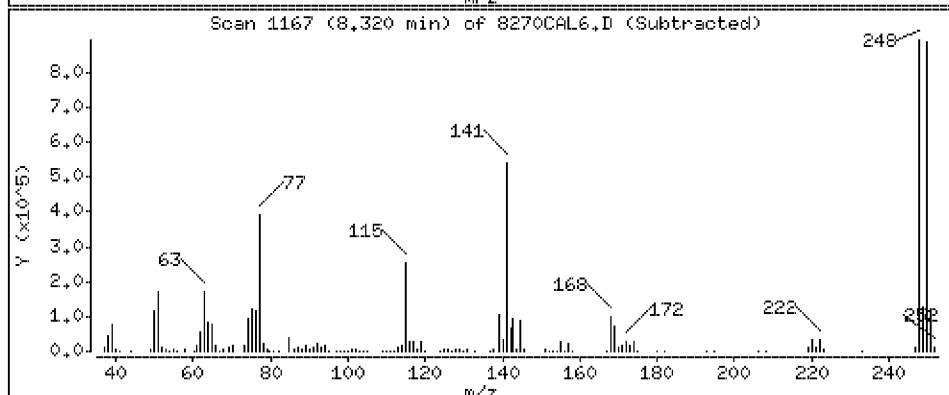
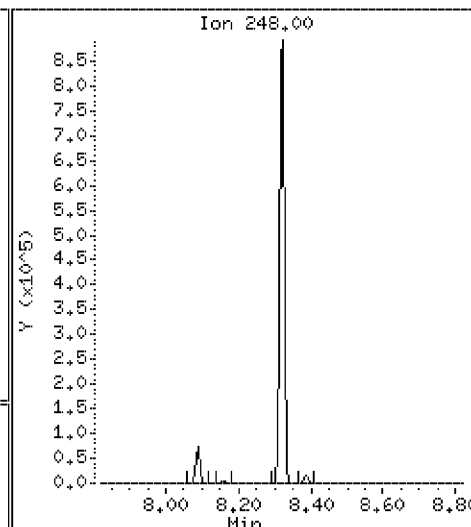
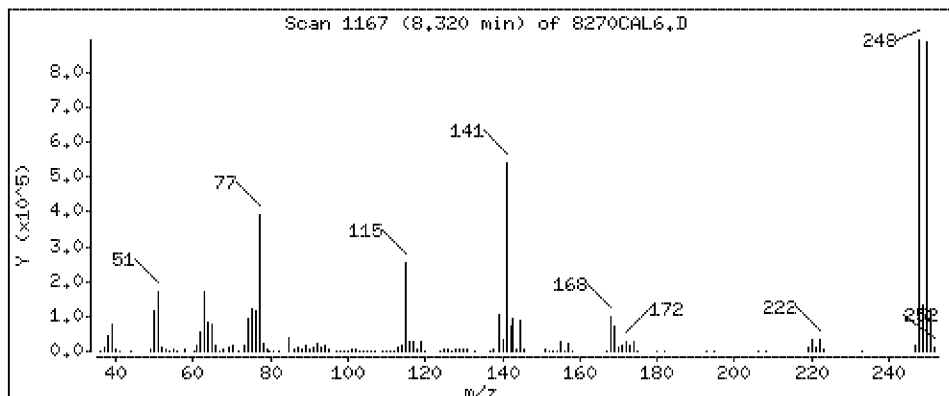
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

93 4-Bromophenylphenylether

Concentration: 78.7 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

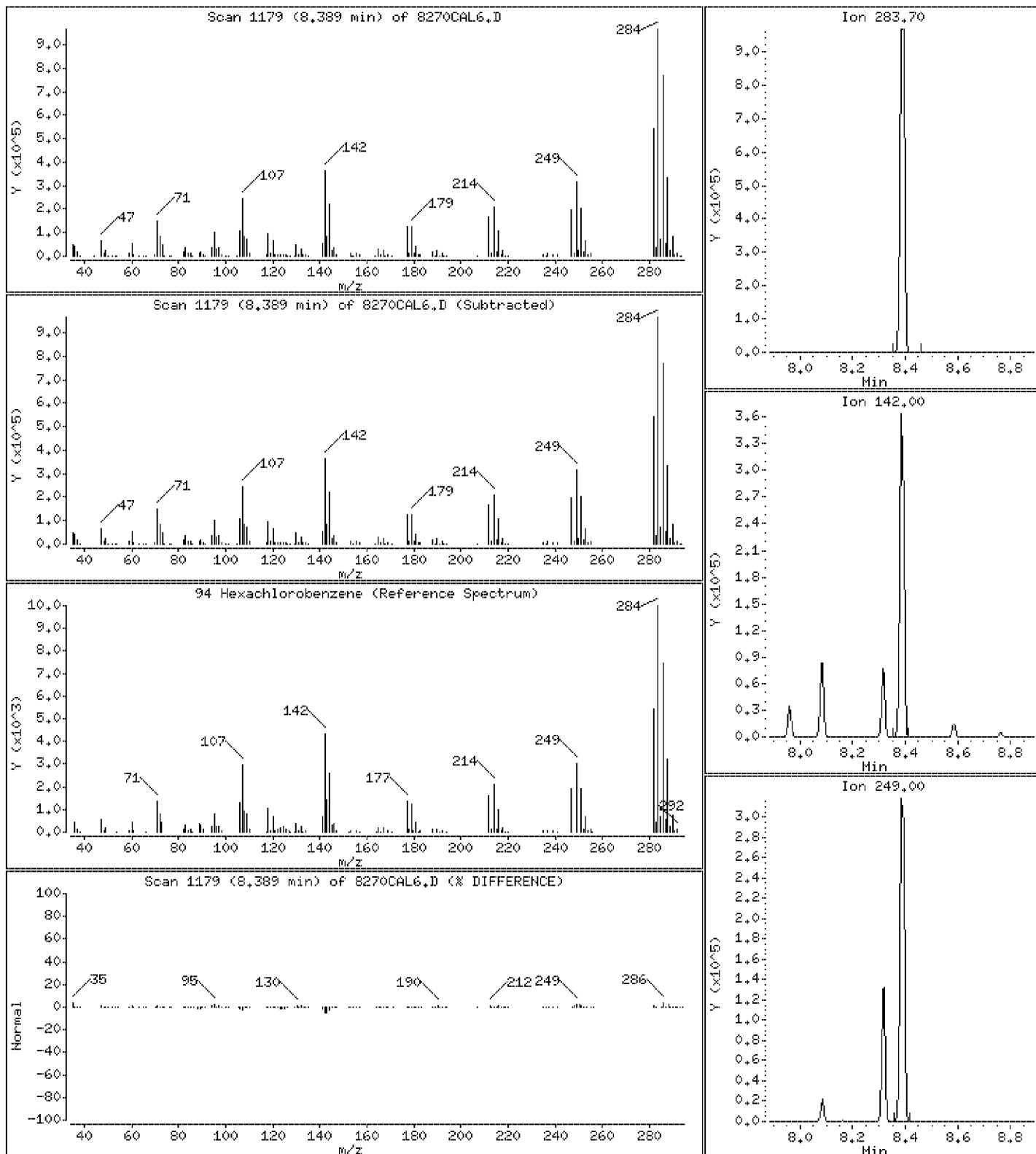
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

94 Hexachlorobenzene

Concentration: 79.6 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

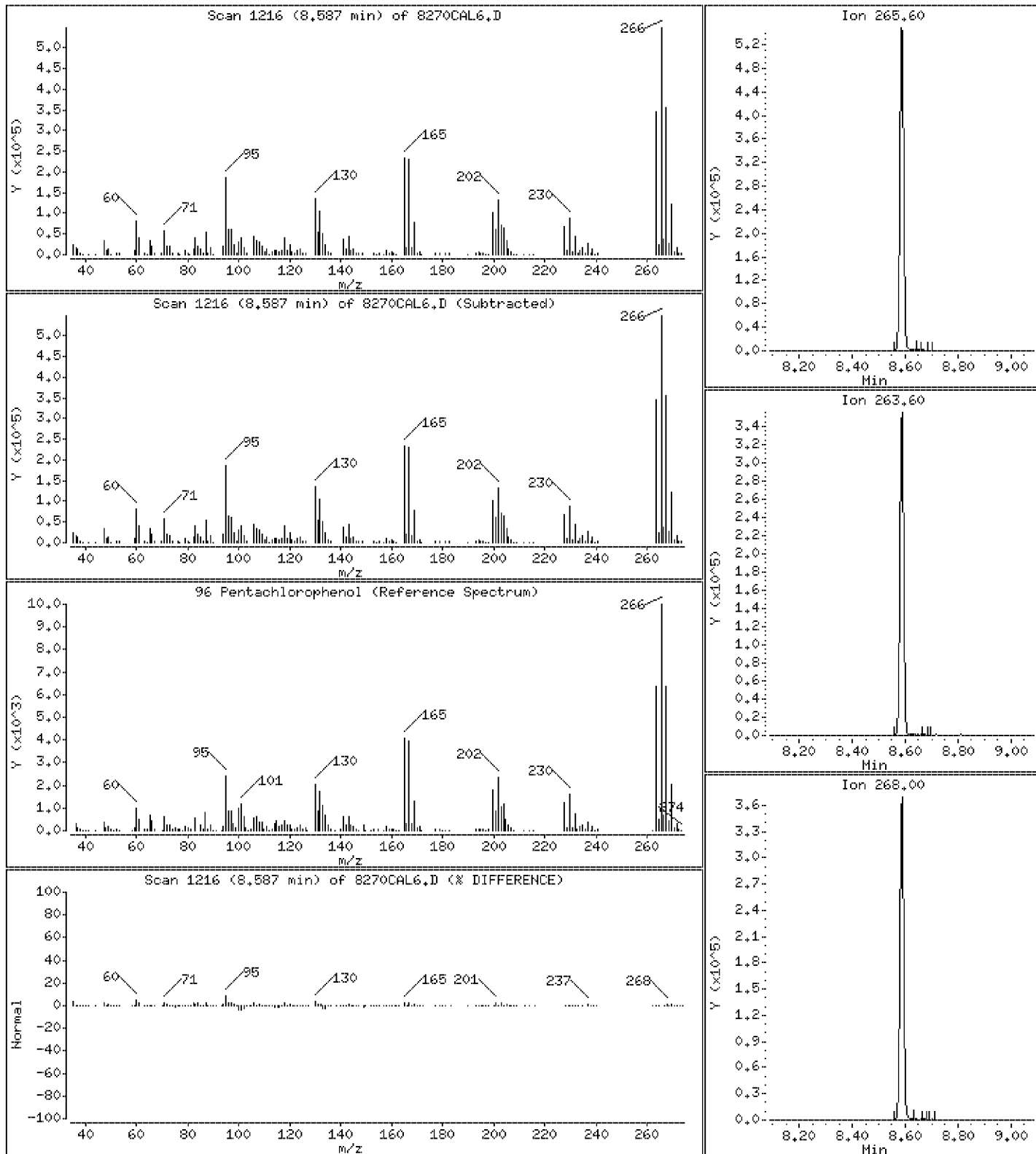
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

96 Pentachlorophenol

Concentration: 80.1 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

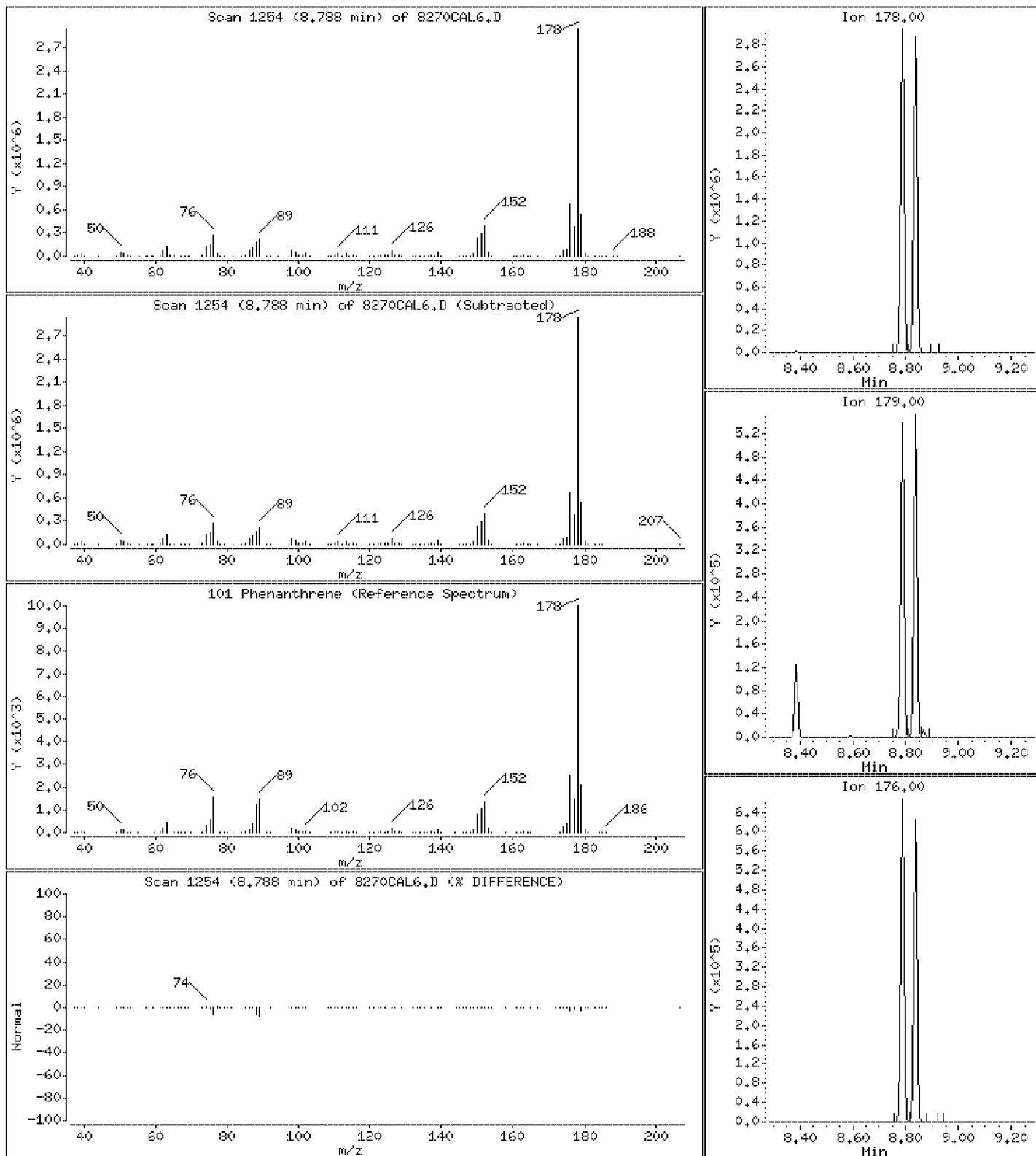
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

101 Phenanthrene

Concentration: 75.3 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

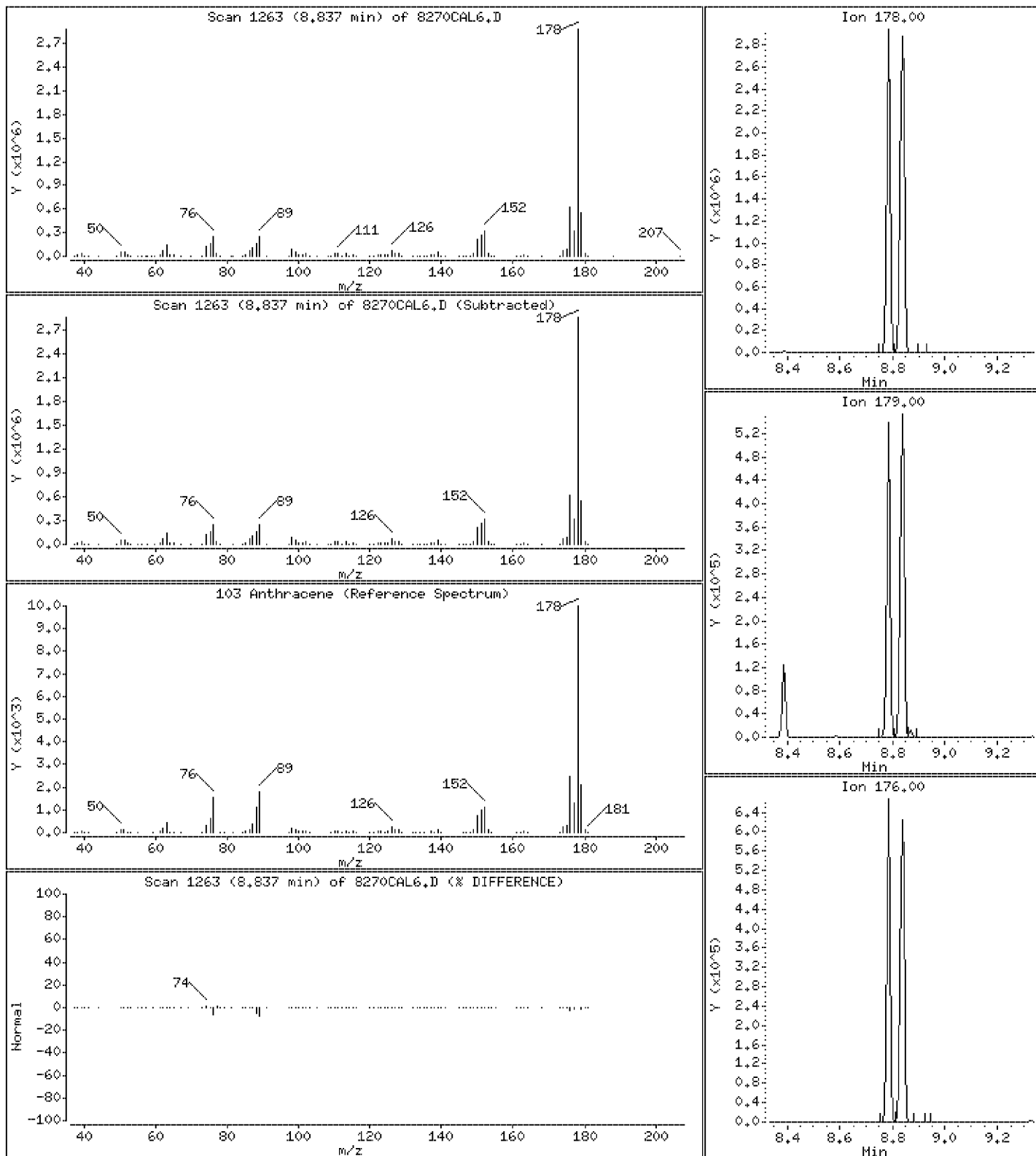
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

103 Anthracene

Concentration: 75.3 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

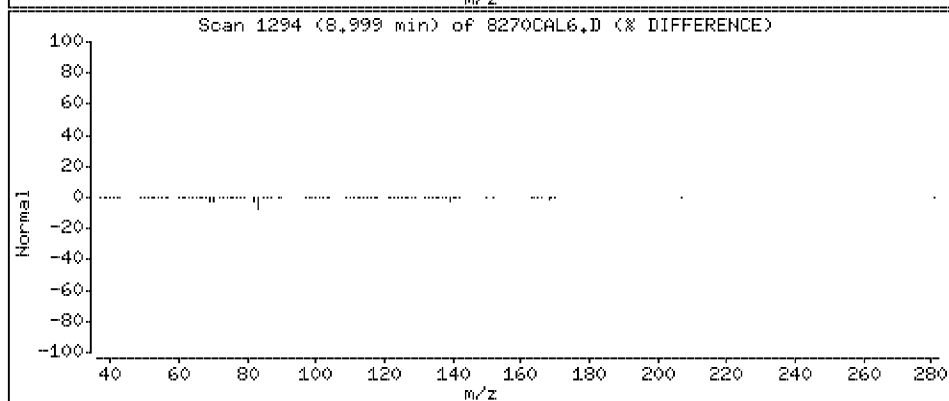
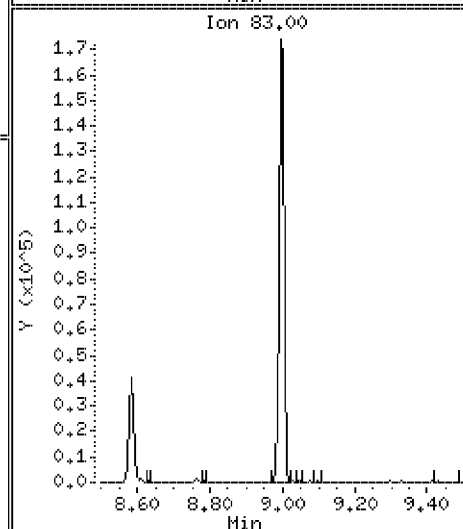
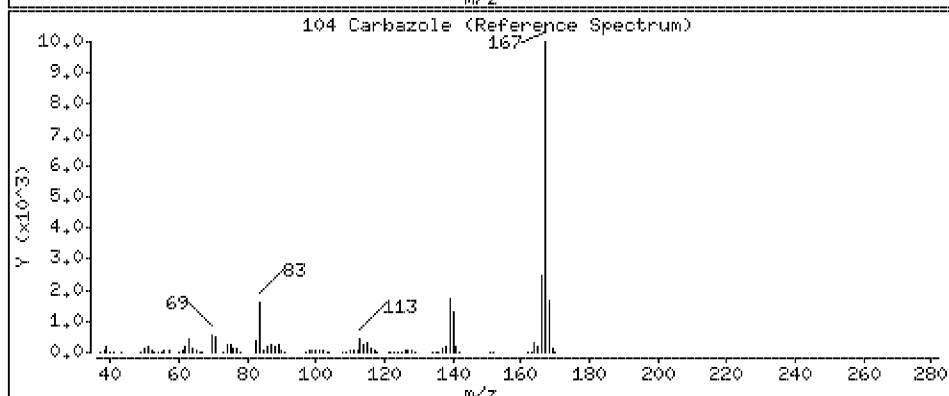
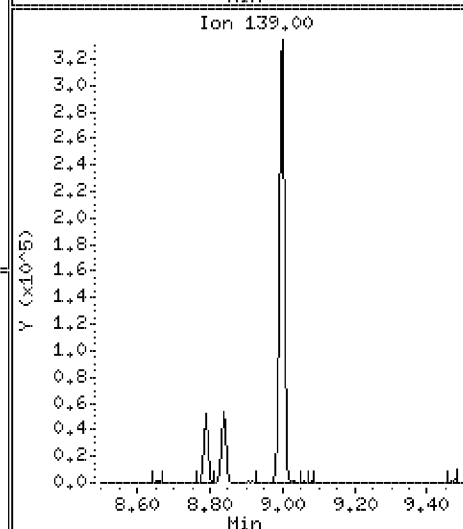
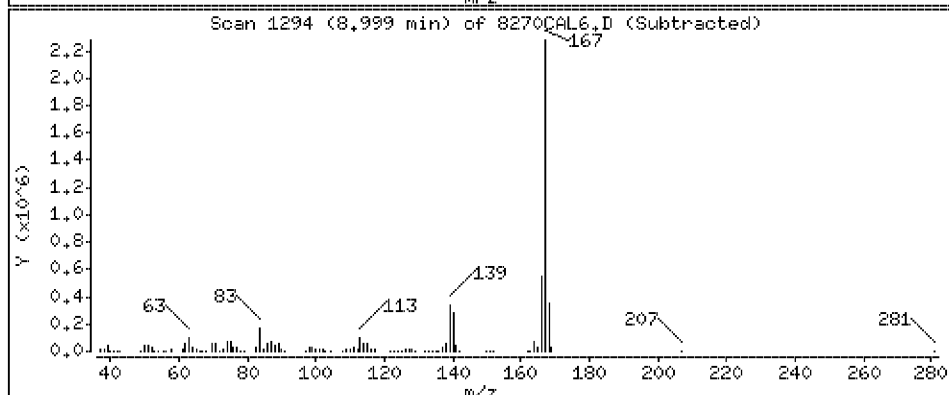
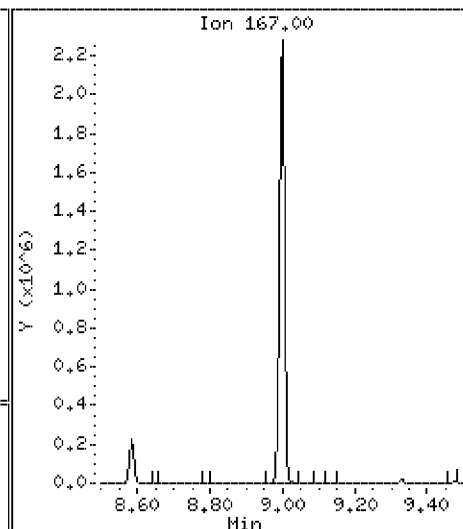
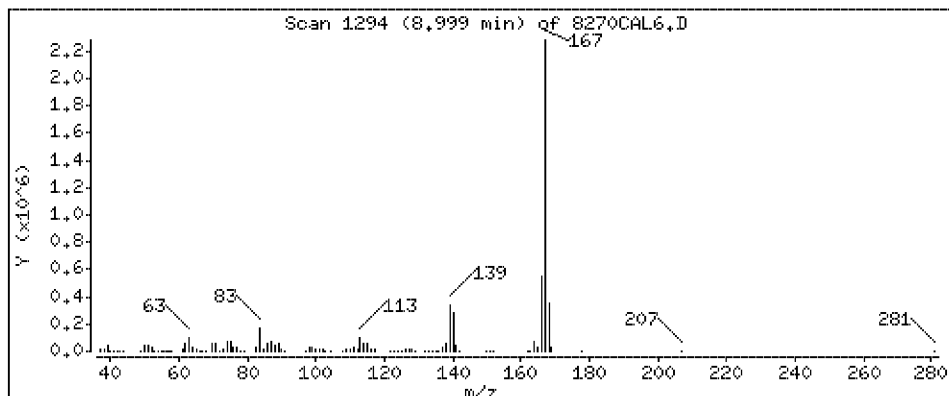
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

104 Carbazole

Concentration: 75.2 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

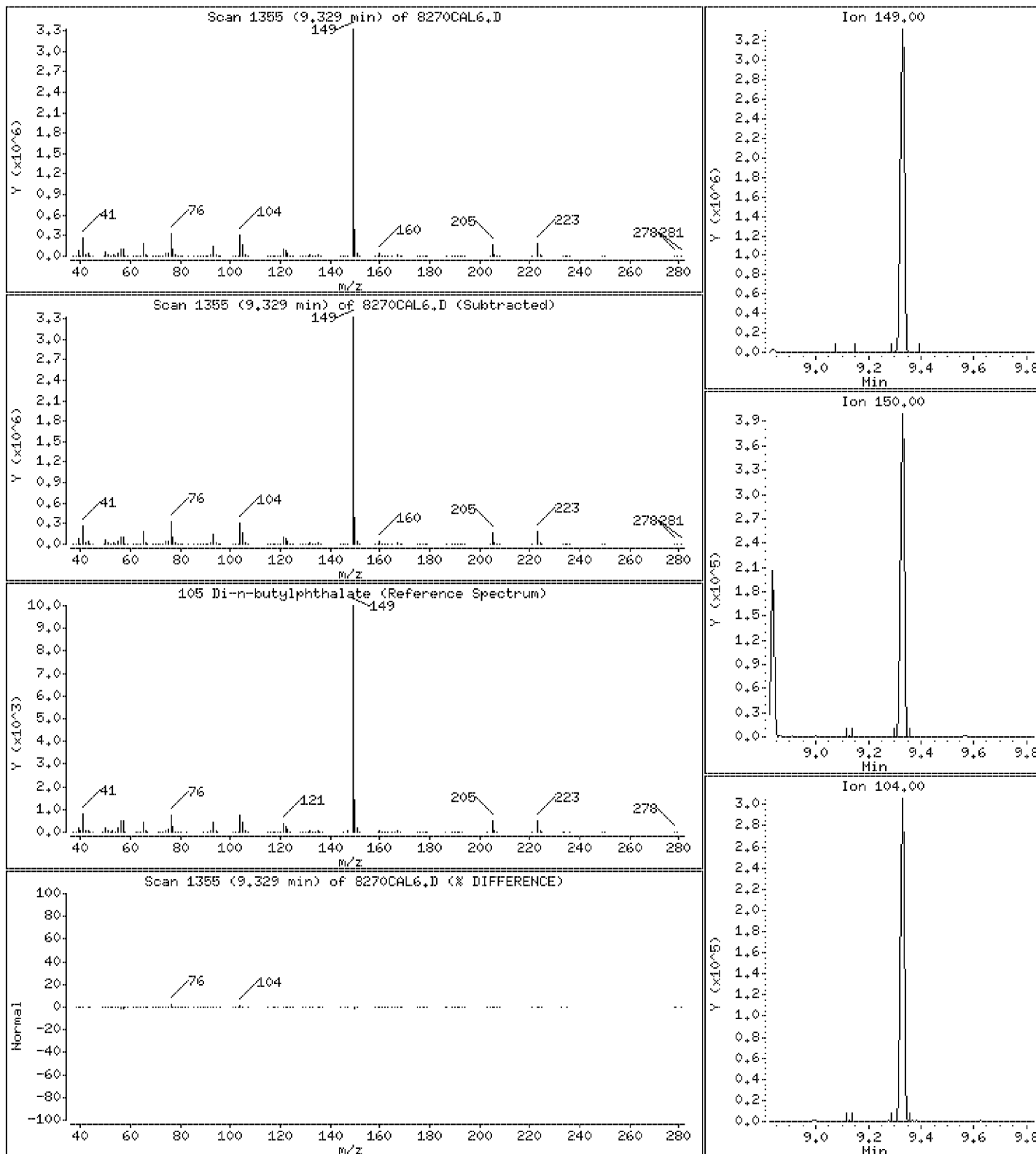
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

105 Di-n-butylphthalate

Concentration: 76.8 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

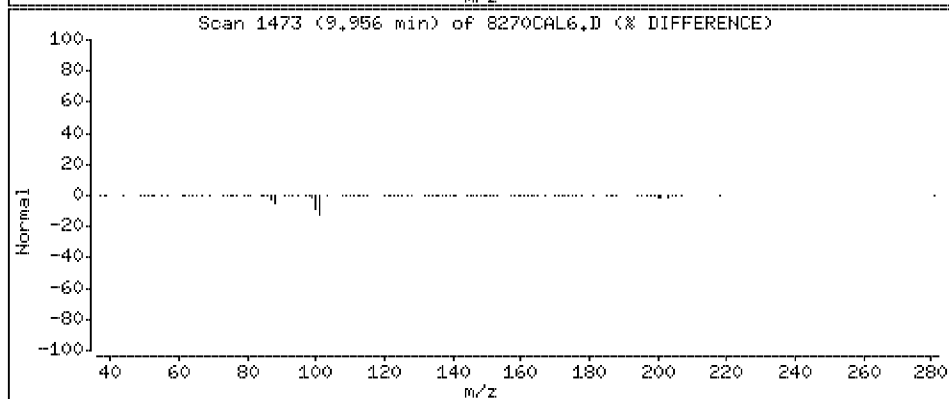
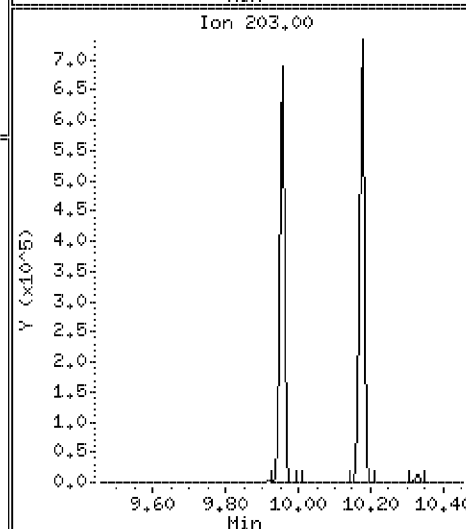
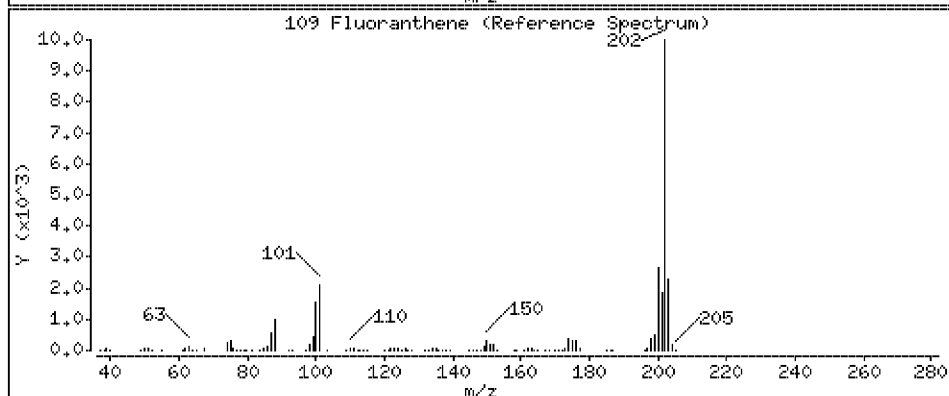
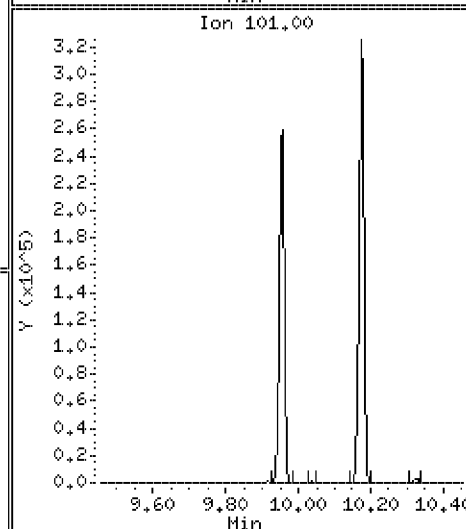
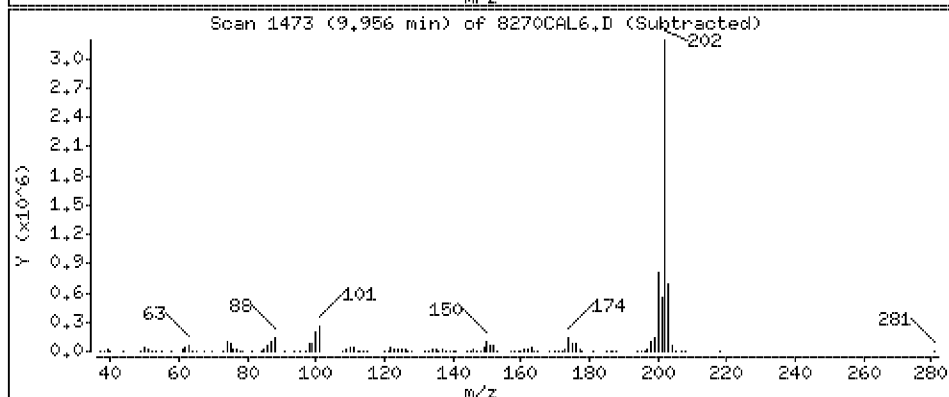
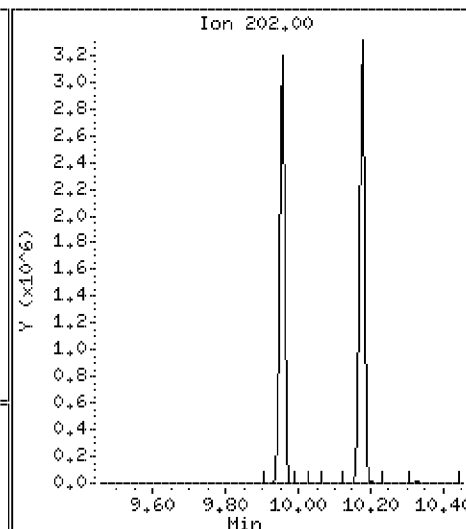
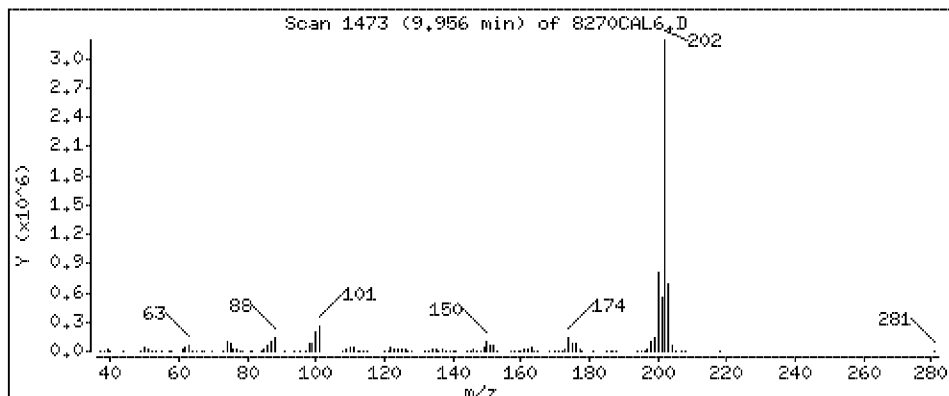
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

109 Fluoranthene

Concentration: 74.8 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

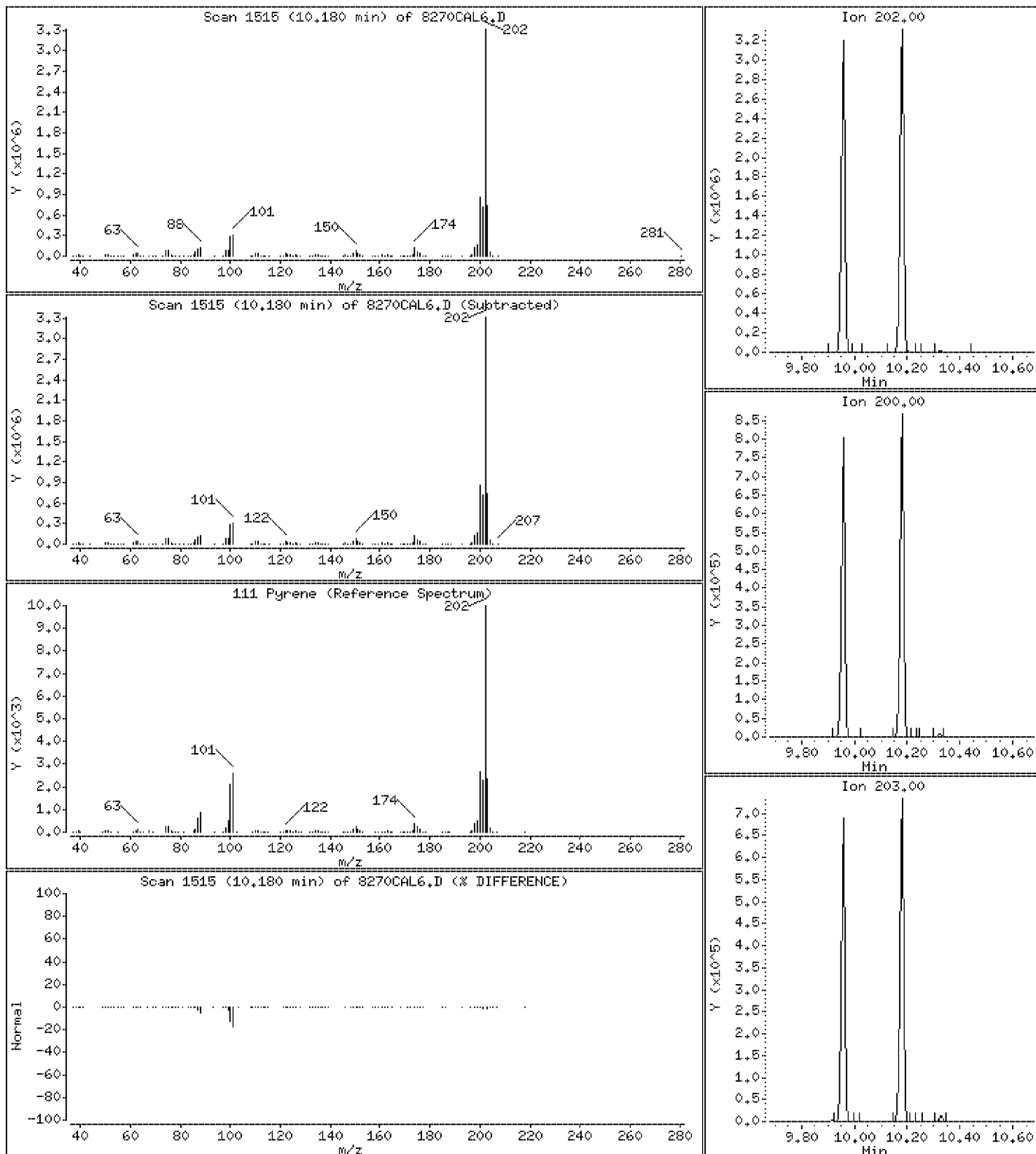
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

111 Pyrene

Concentration: 66.2 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

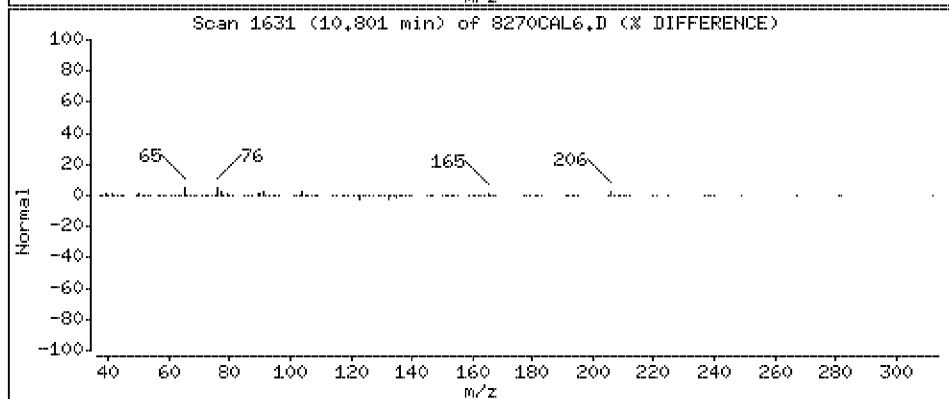
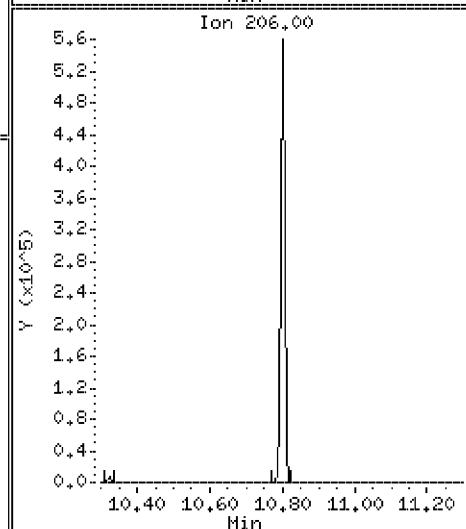
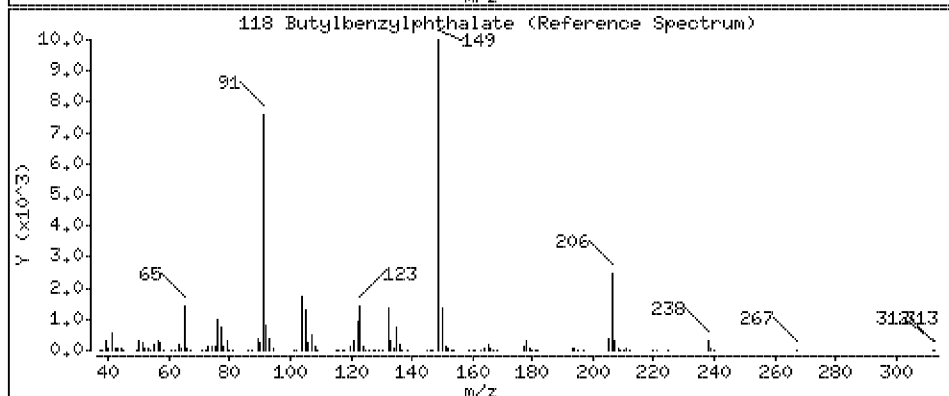
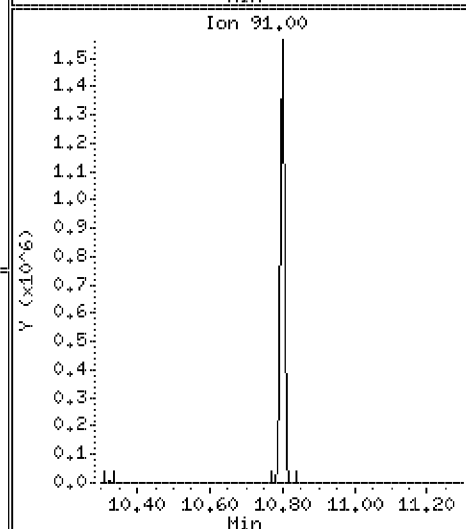
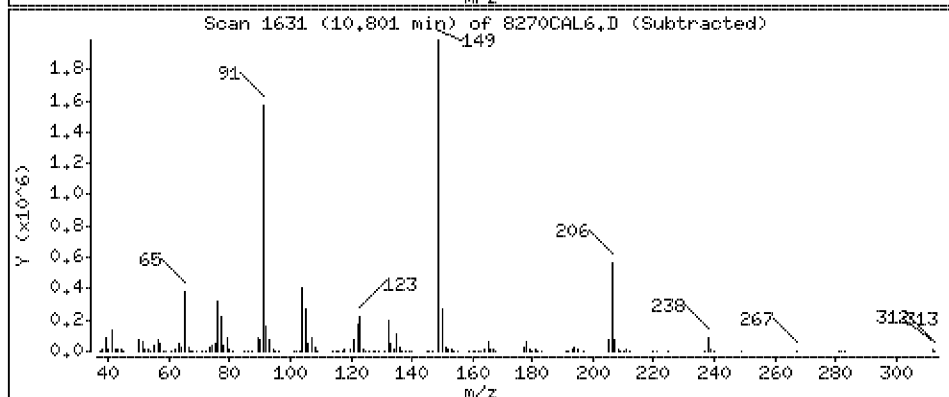
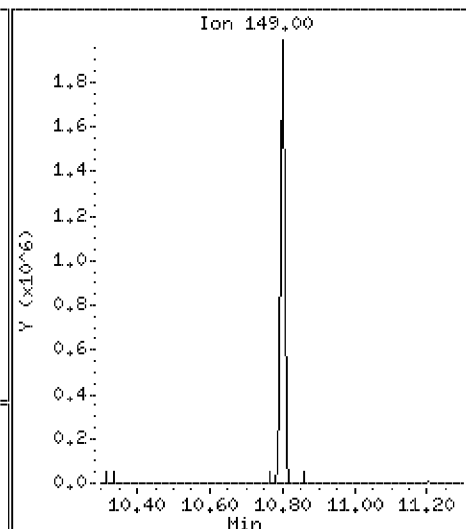
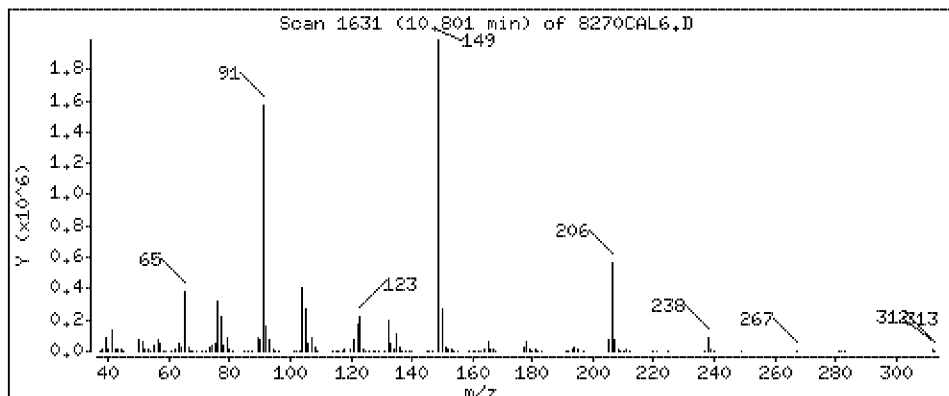
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

118 Butylbenzylphthalate

Concentration: 73.5 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

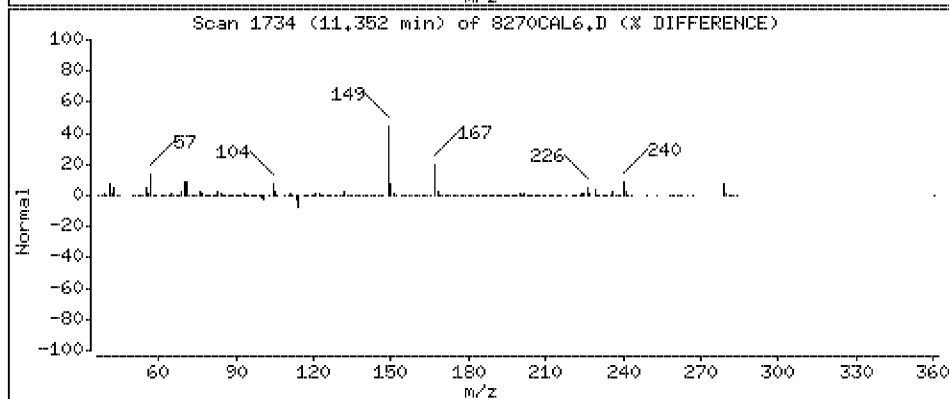
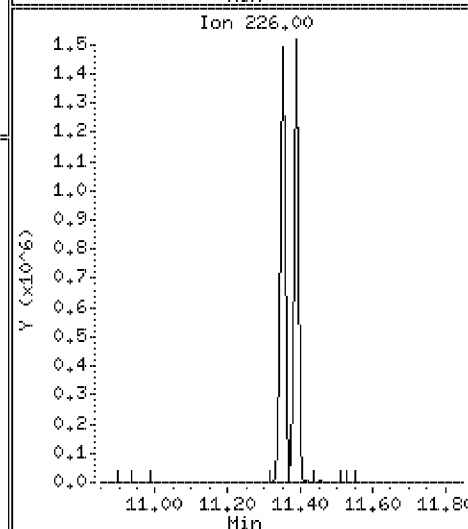
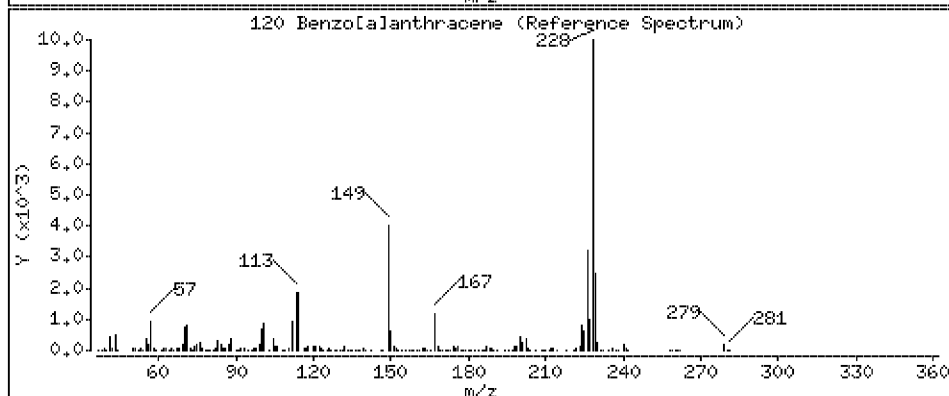
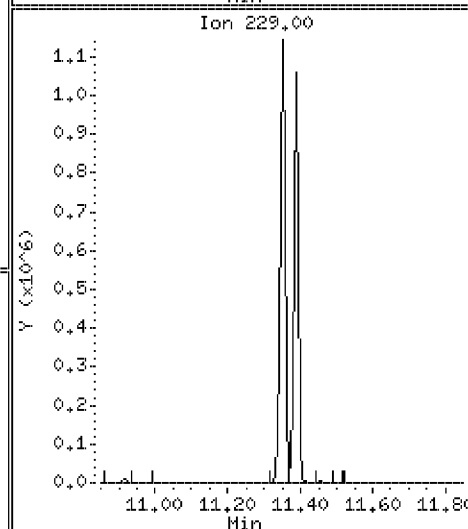
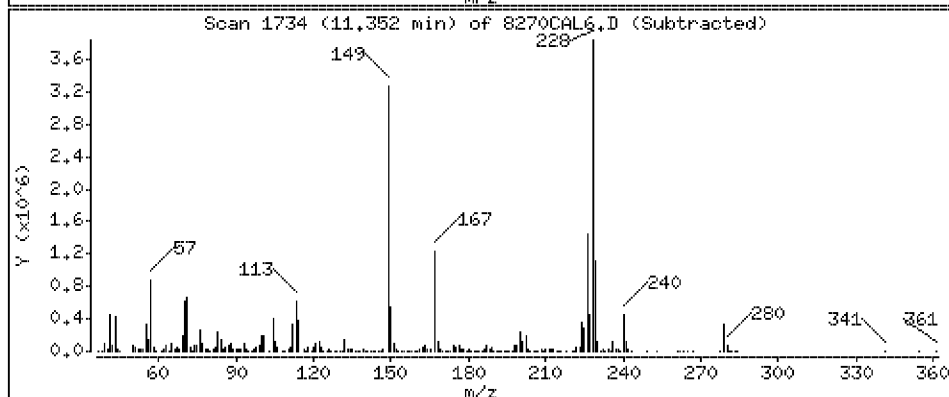
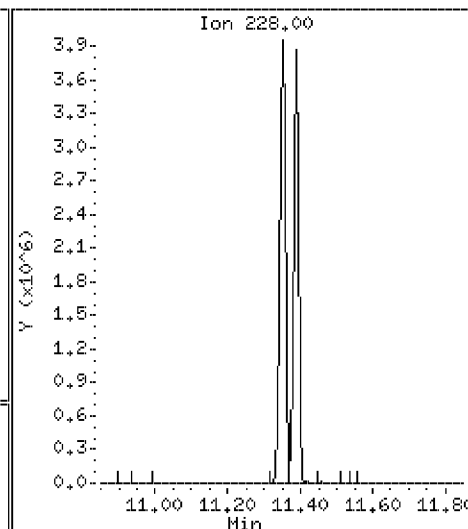
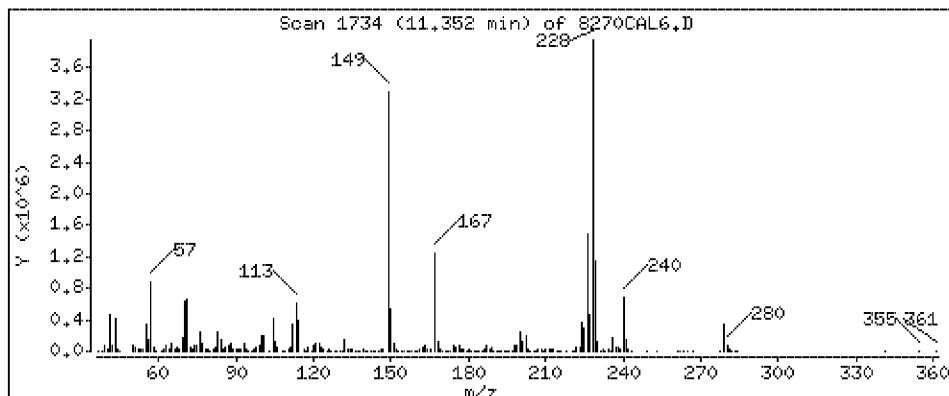
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

120 Benzo[*a*]anthracene

Concentration: 69.9 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

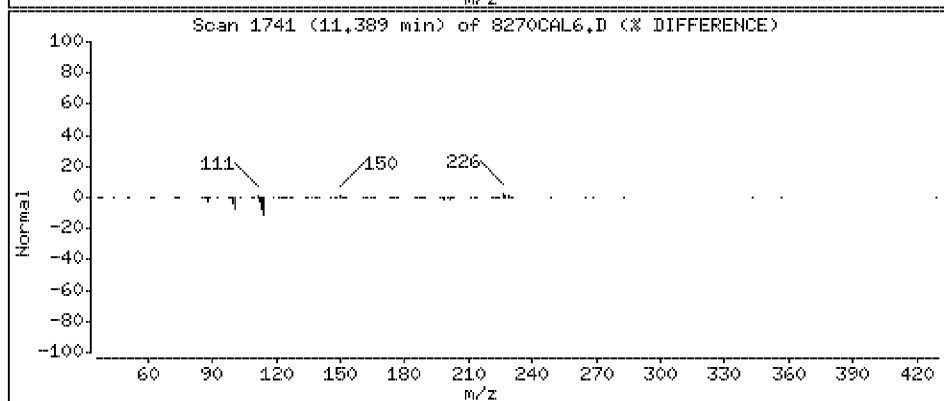
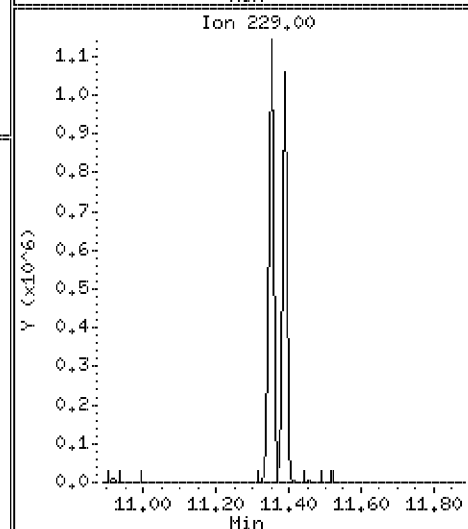
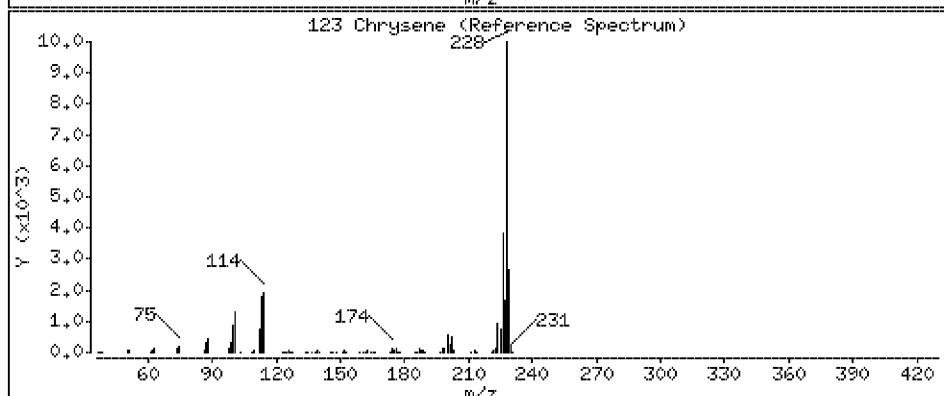
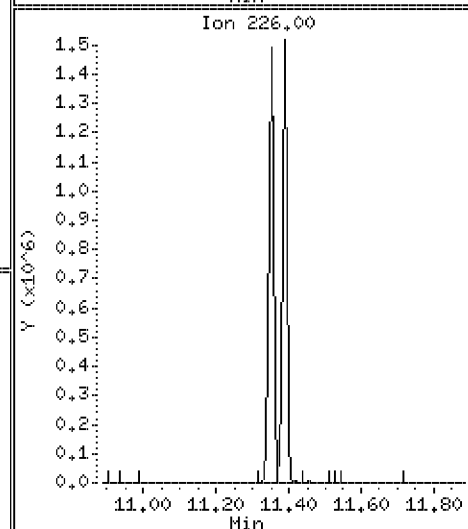
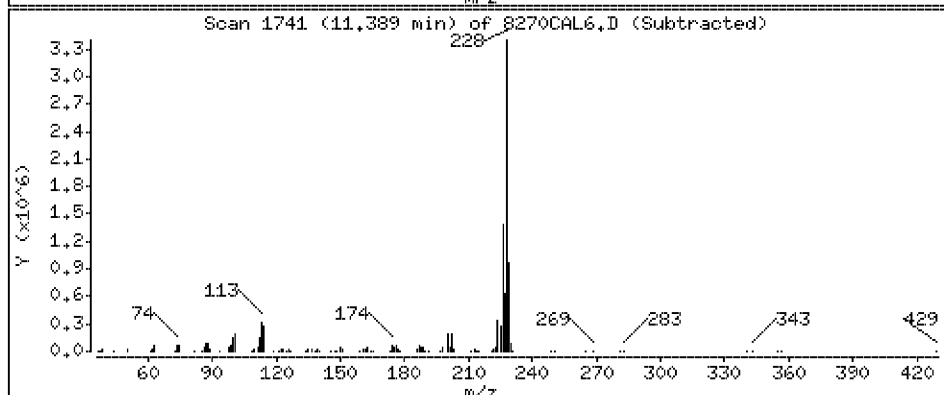
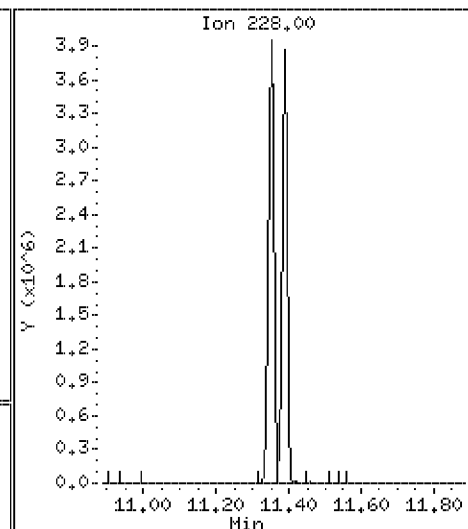
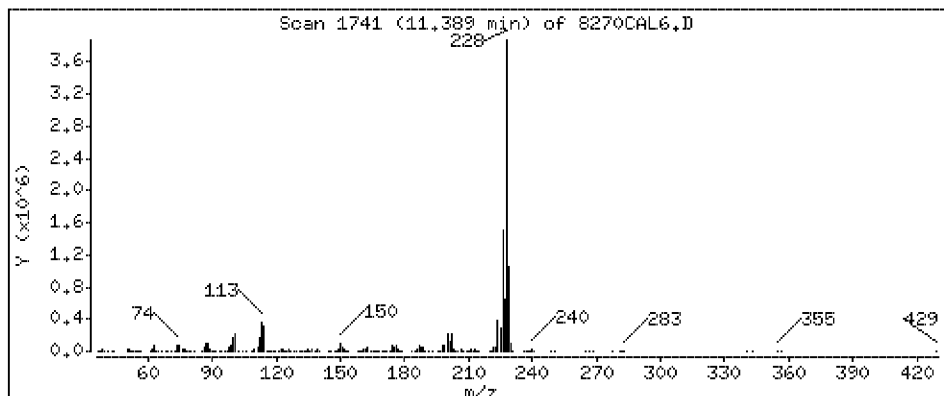
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

123 Chrysene

Concentration: 66.6 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

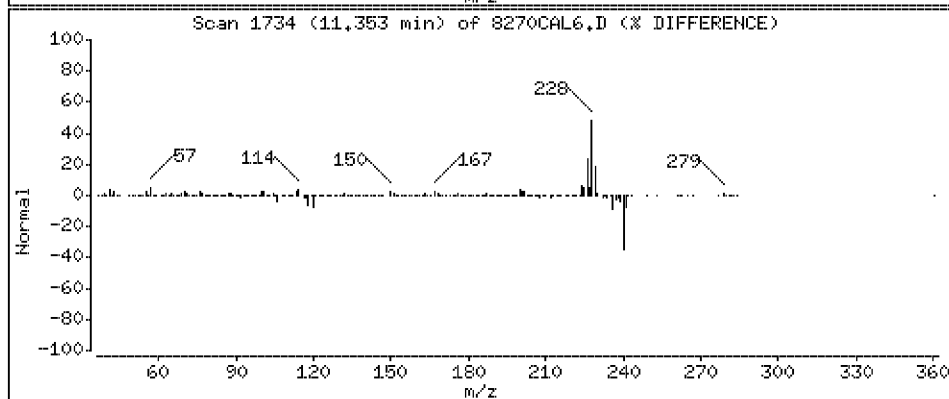
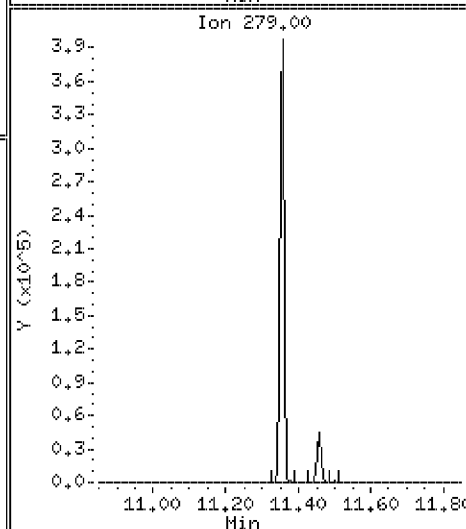
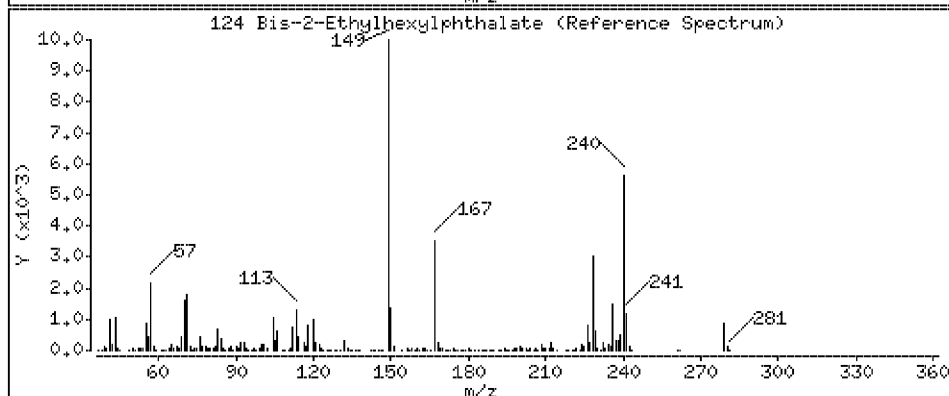
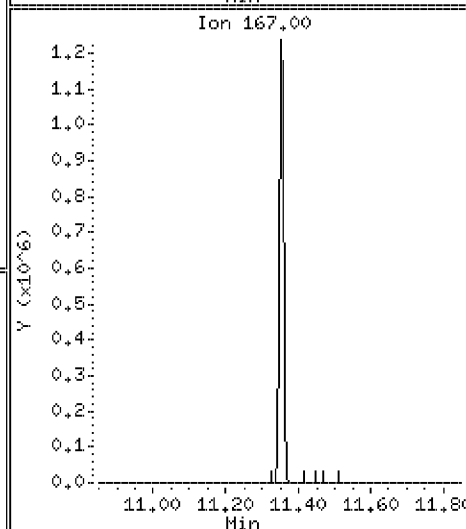
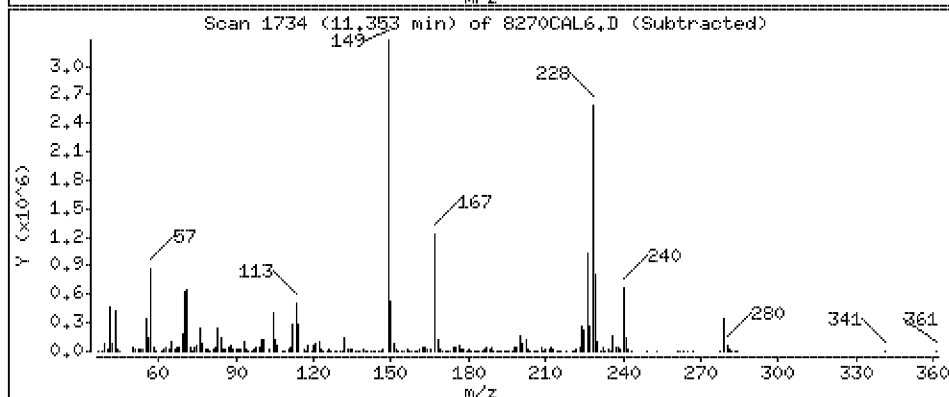
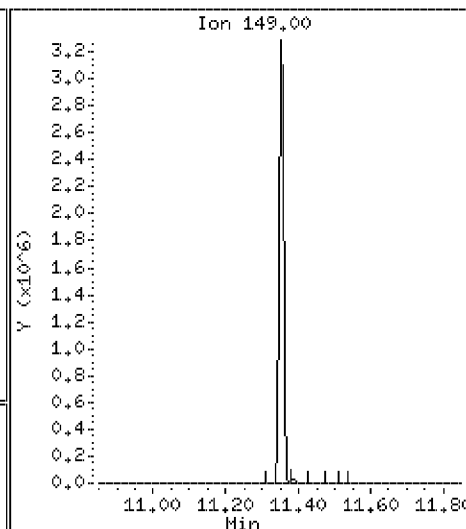
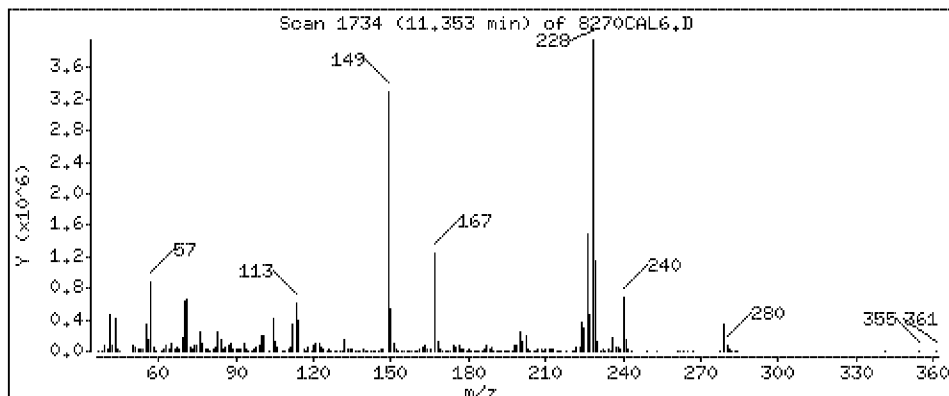
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

124 Bis-2-Ethylhexylphthalate

Concentration: 76.6 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

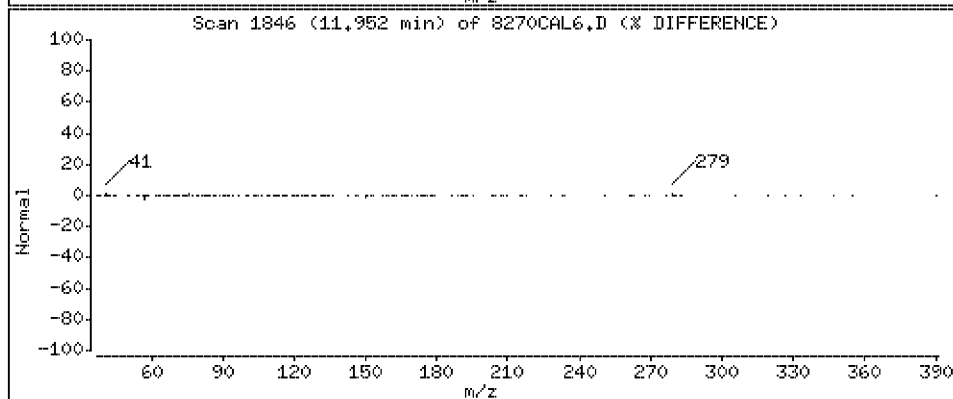
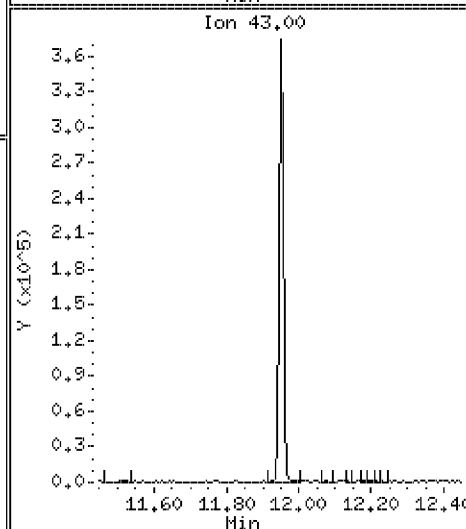
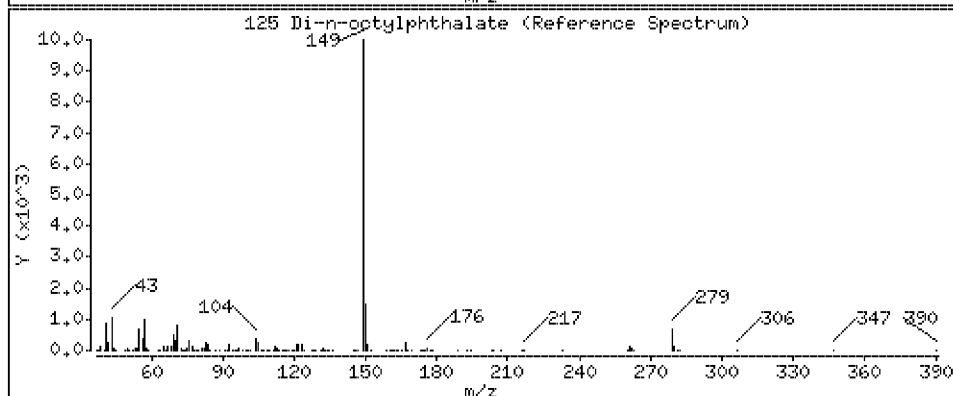
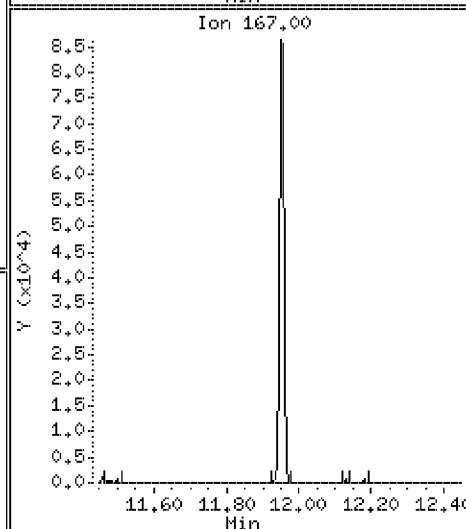
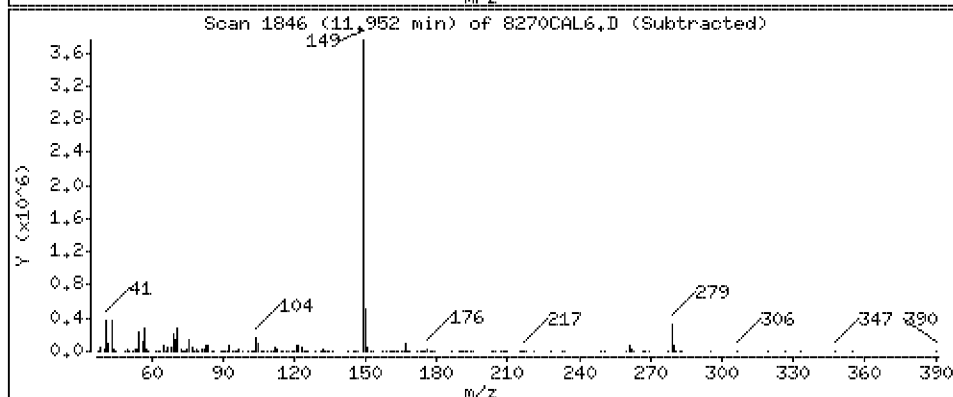
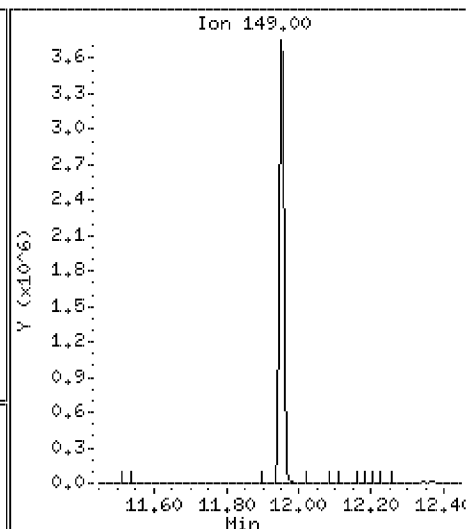
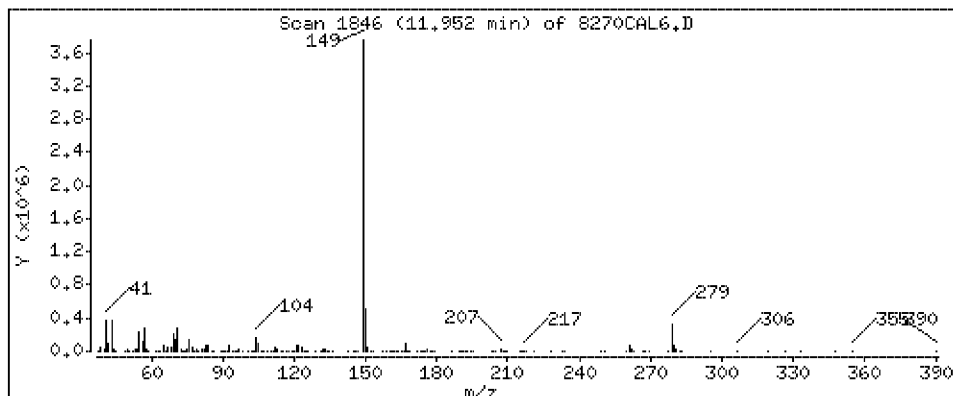
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

125 Di-n-octylphthalate

Concentration: 78.1 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

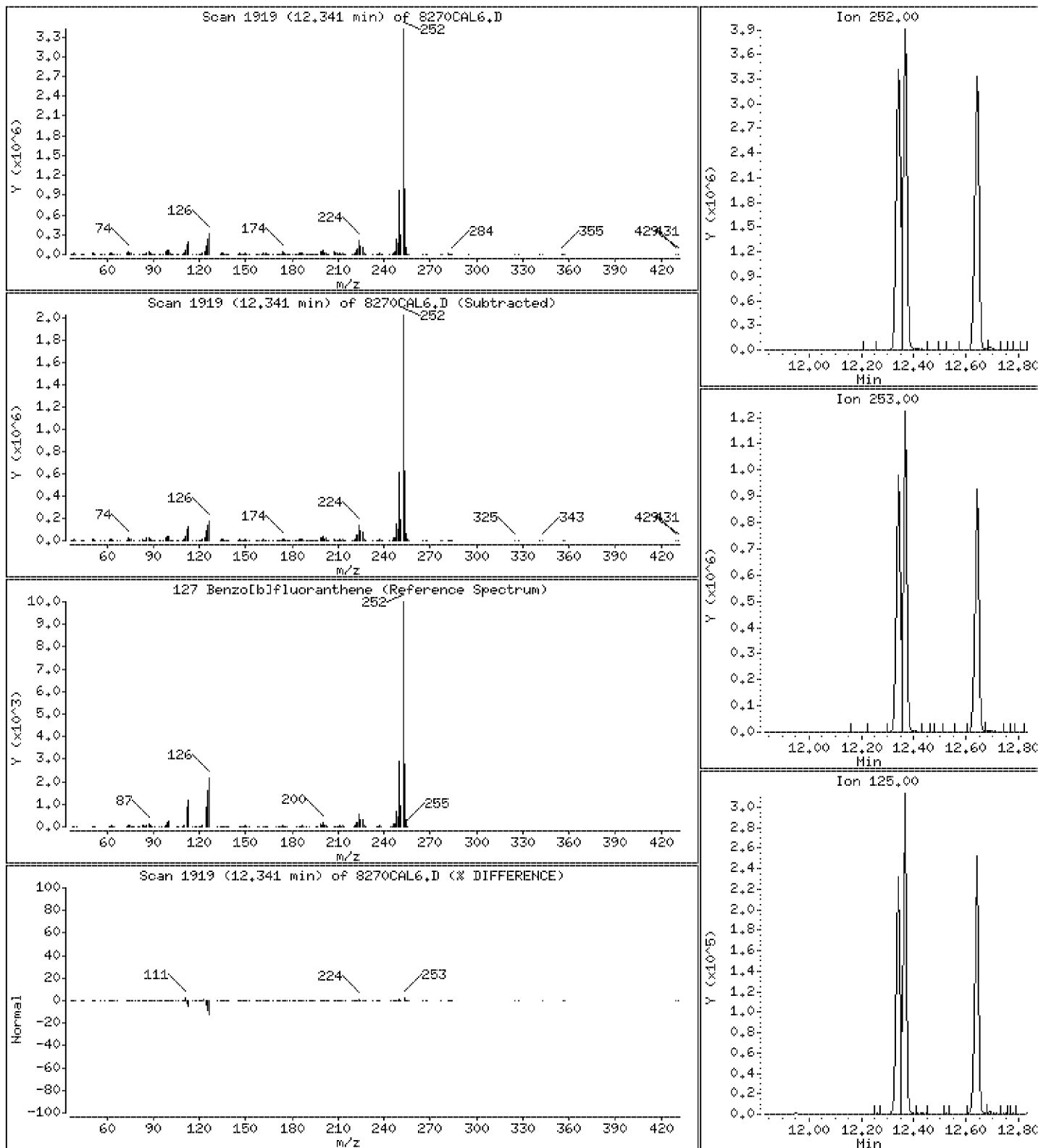
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

127 Benzo[b]fluoranthene

Concentration: 75.5 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

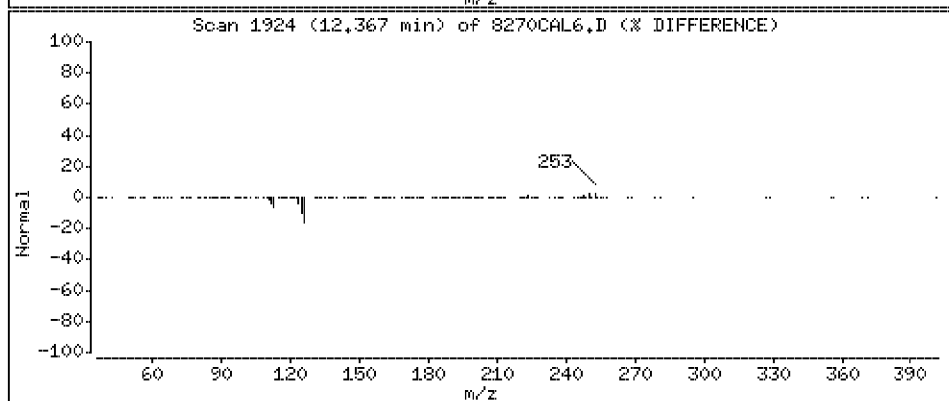
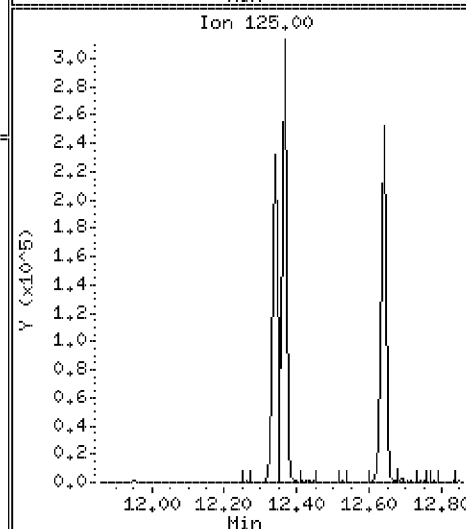
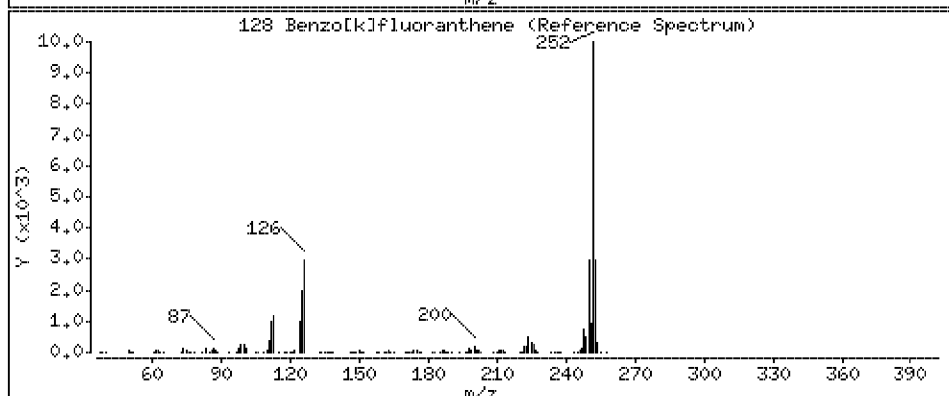
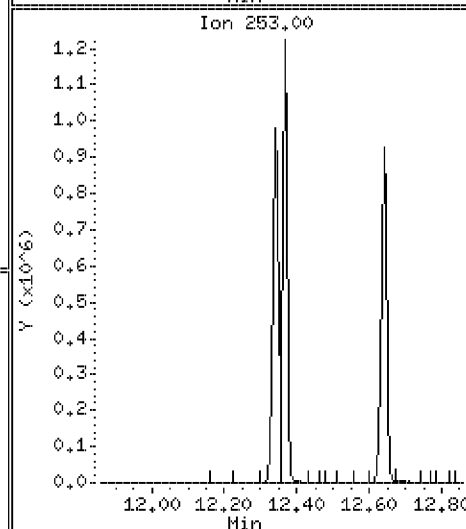
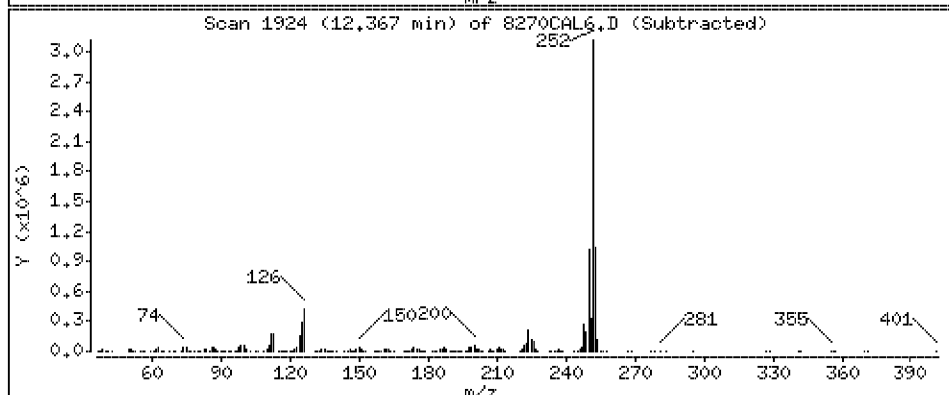
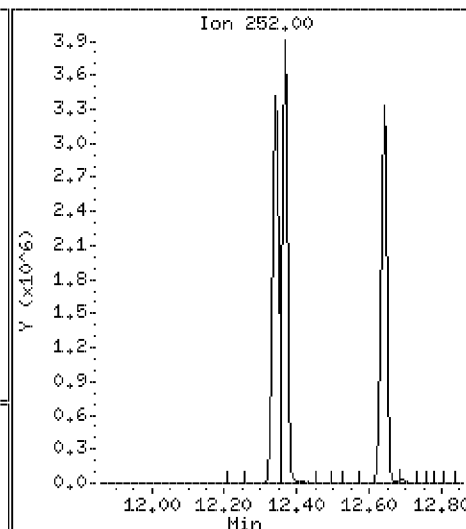
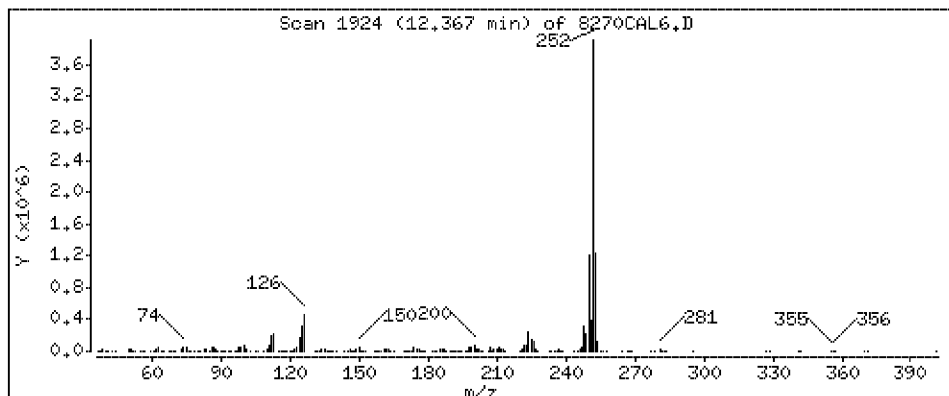
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

128 Benzo[k]fluoranthene

Concentration: 72.8 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

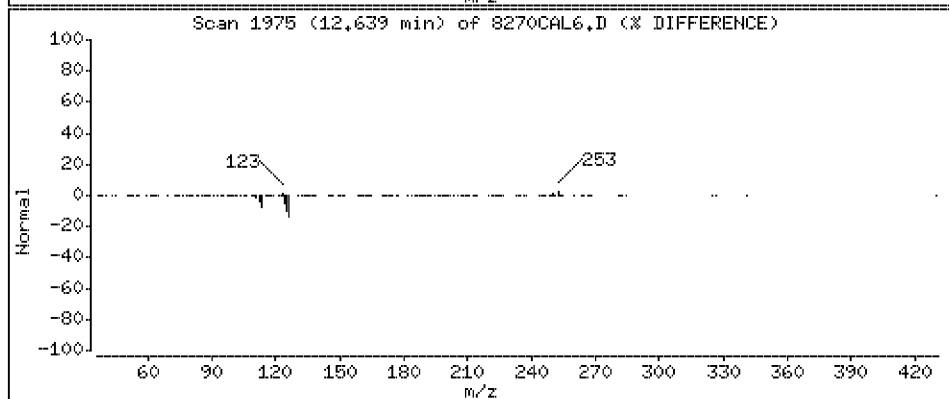
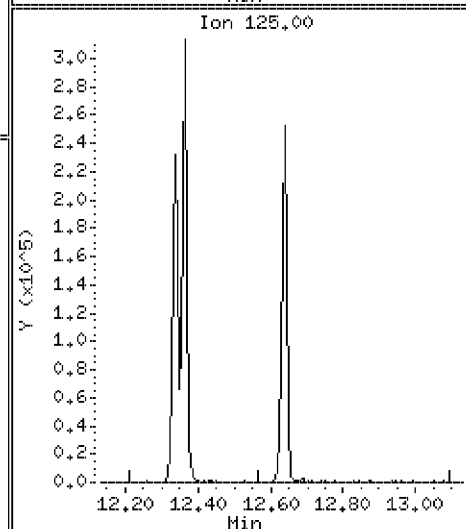
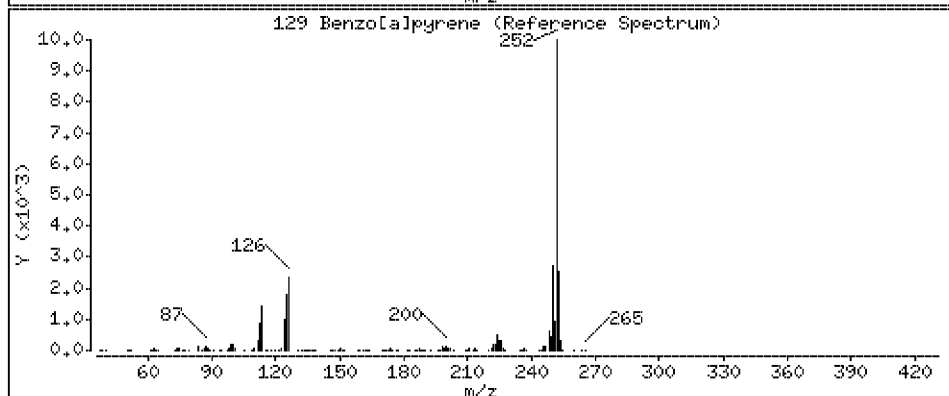
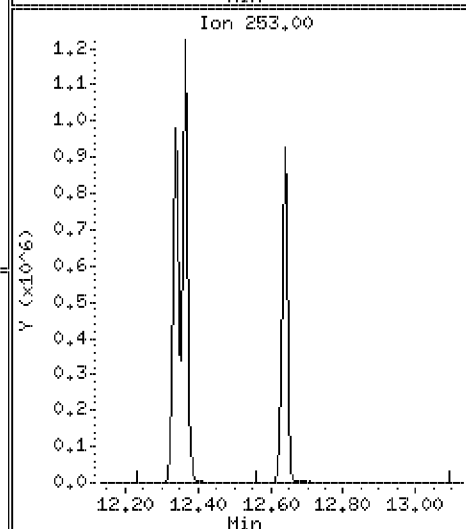
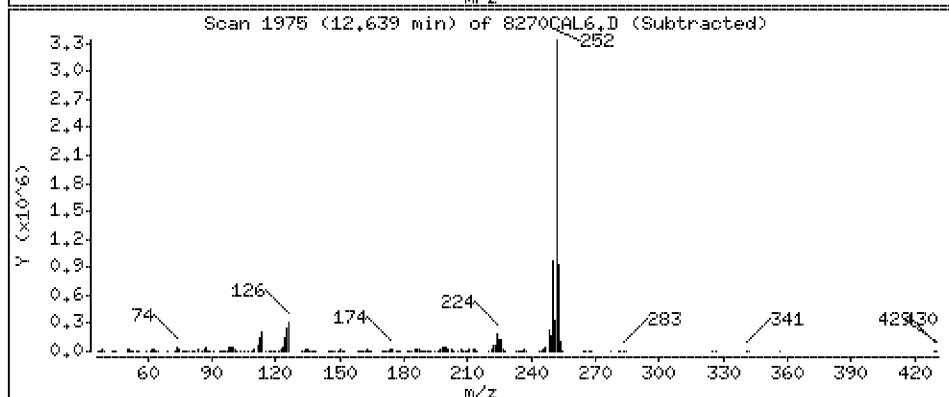
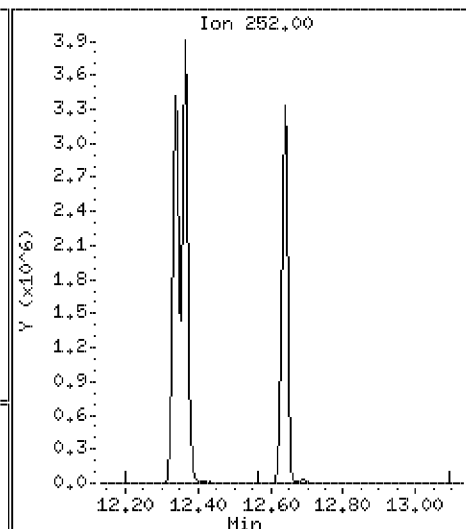
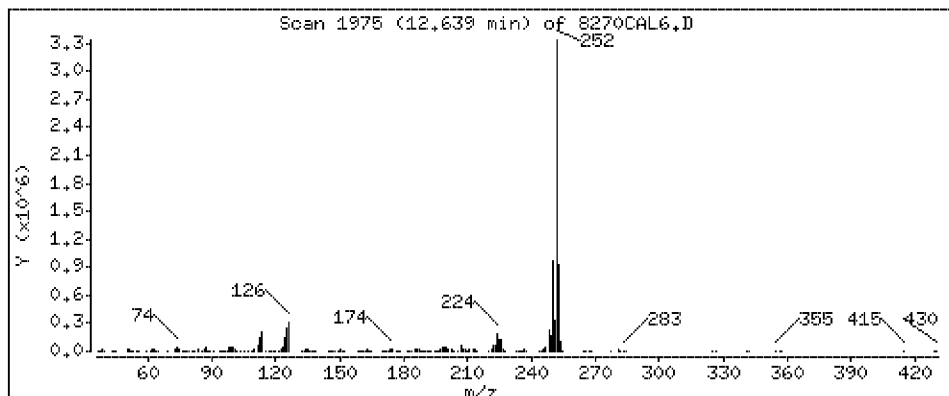
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

129 Benzo[a]pyrene

Concentration: 75.0 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

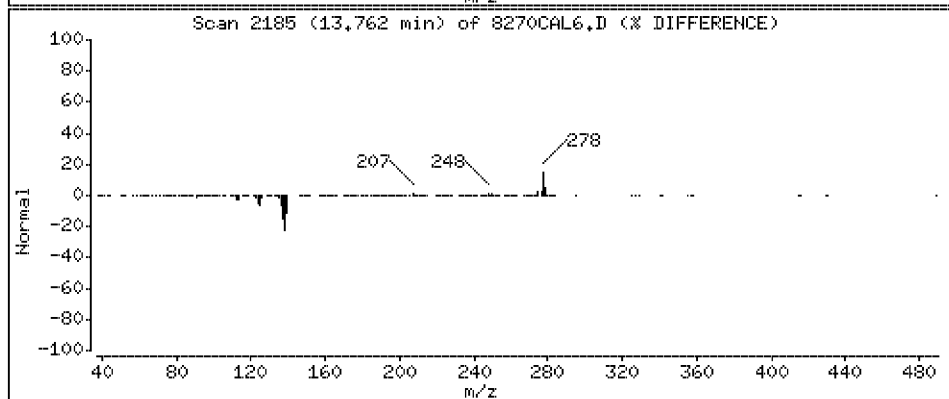
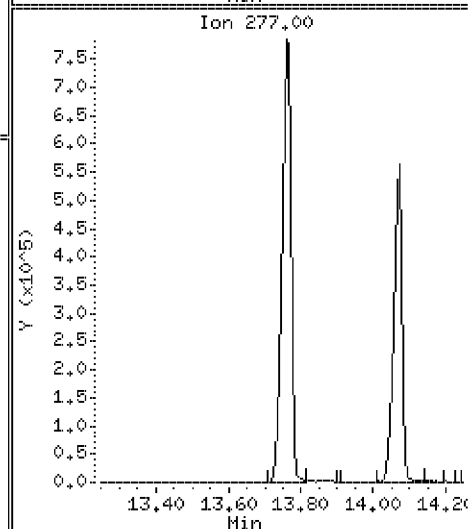
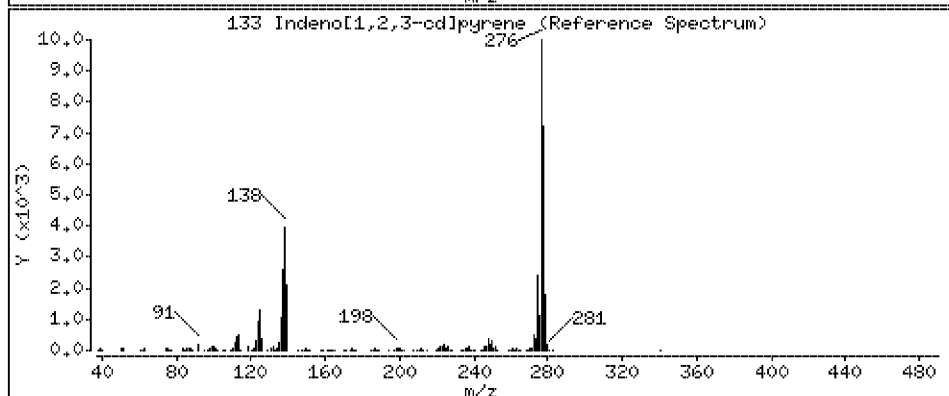
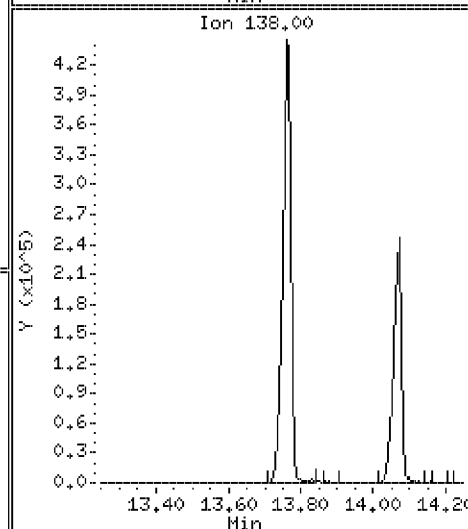
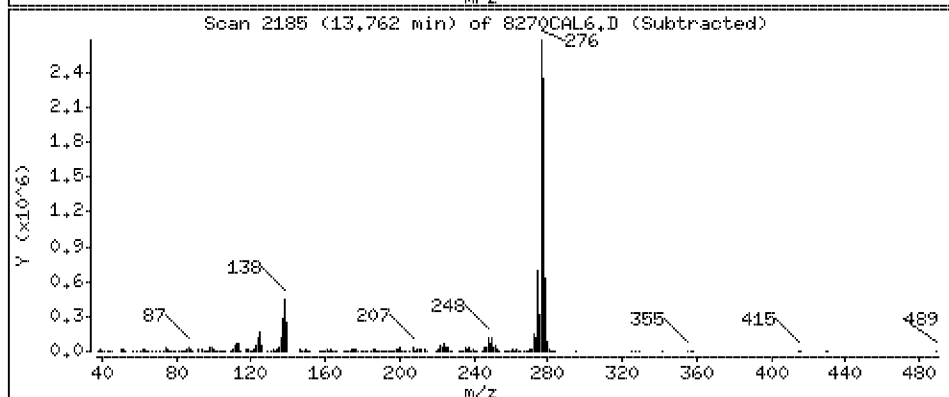
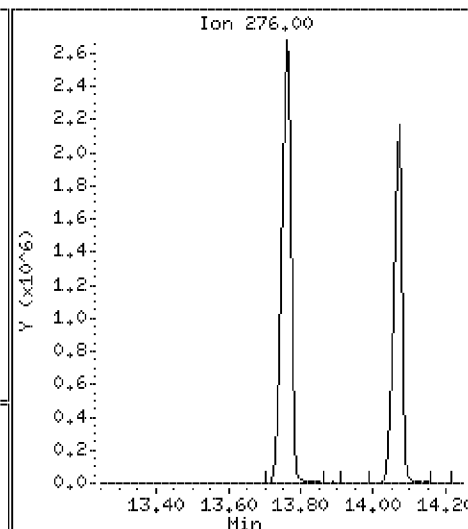
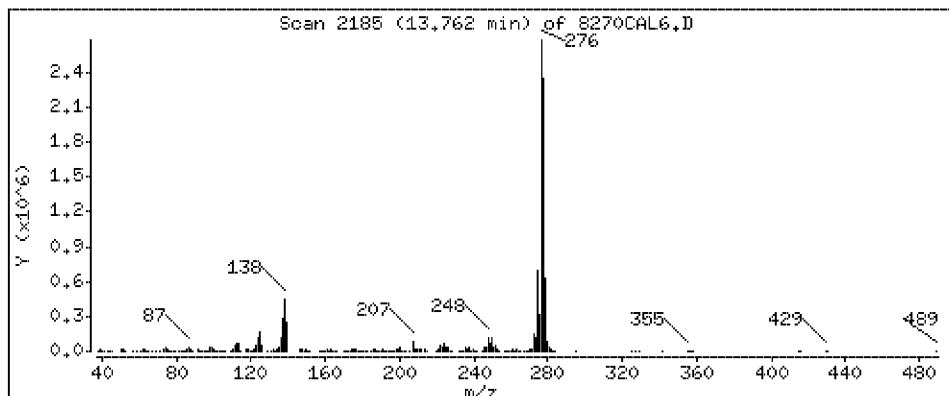
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

133 Indeno[1,2,3-cd]pyrene

Concentration: 75.0 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

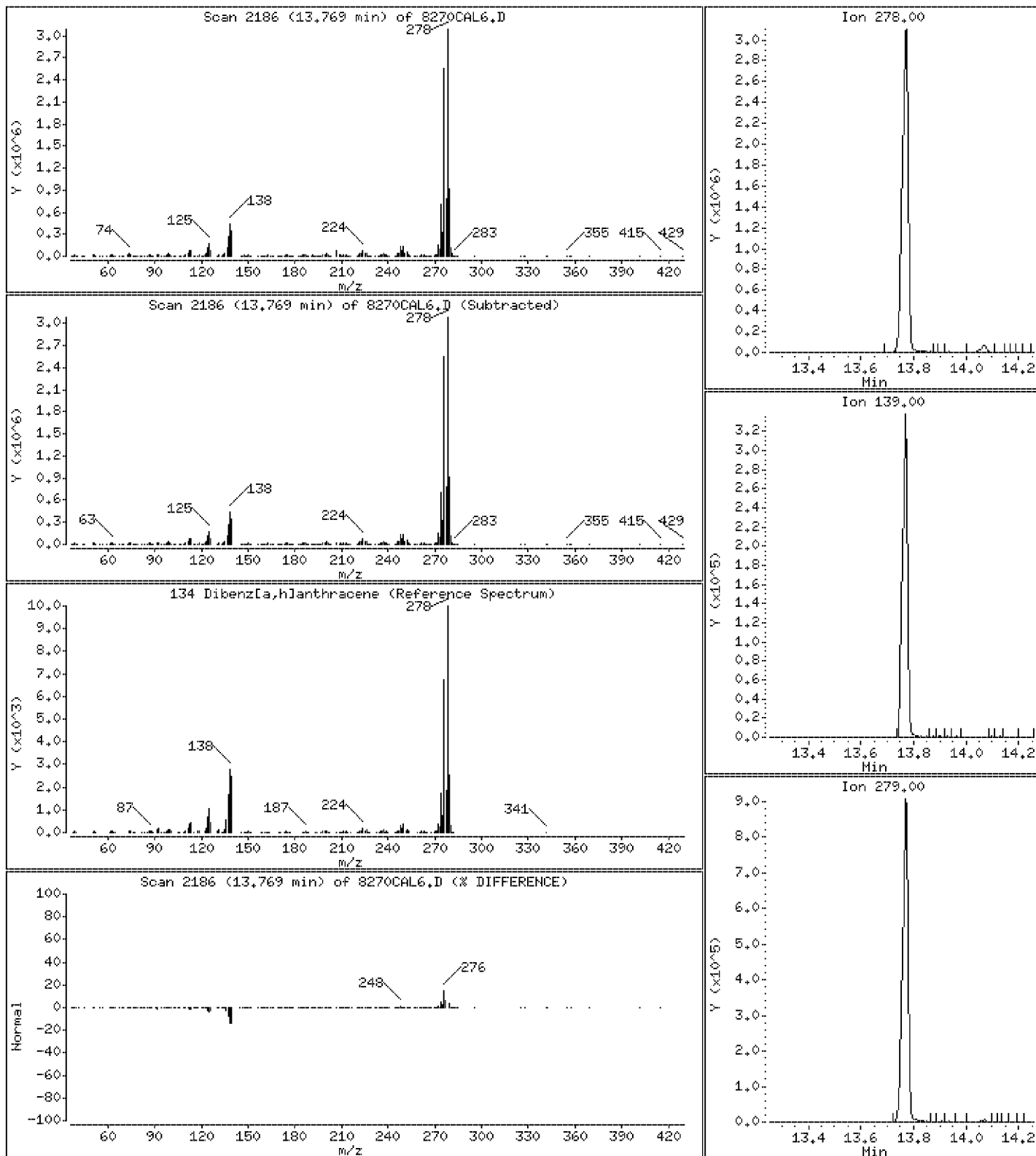
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

134 Dibenz[a,h]anthracene

Concentration: 76.3 ug/l



Date : 23-APR-2012 10:47

Client ID: 8270CAL6

Instrument: smsd03.i

Sample Info: 45922

Purge Volume: 1000.0

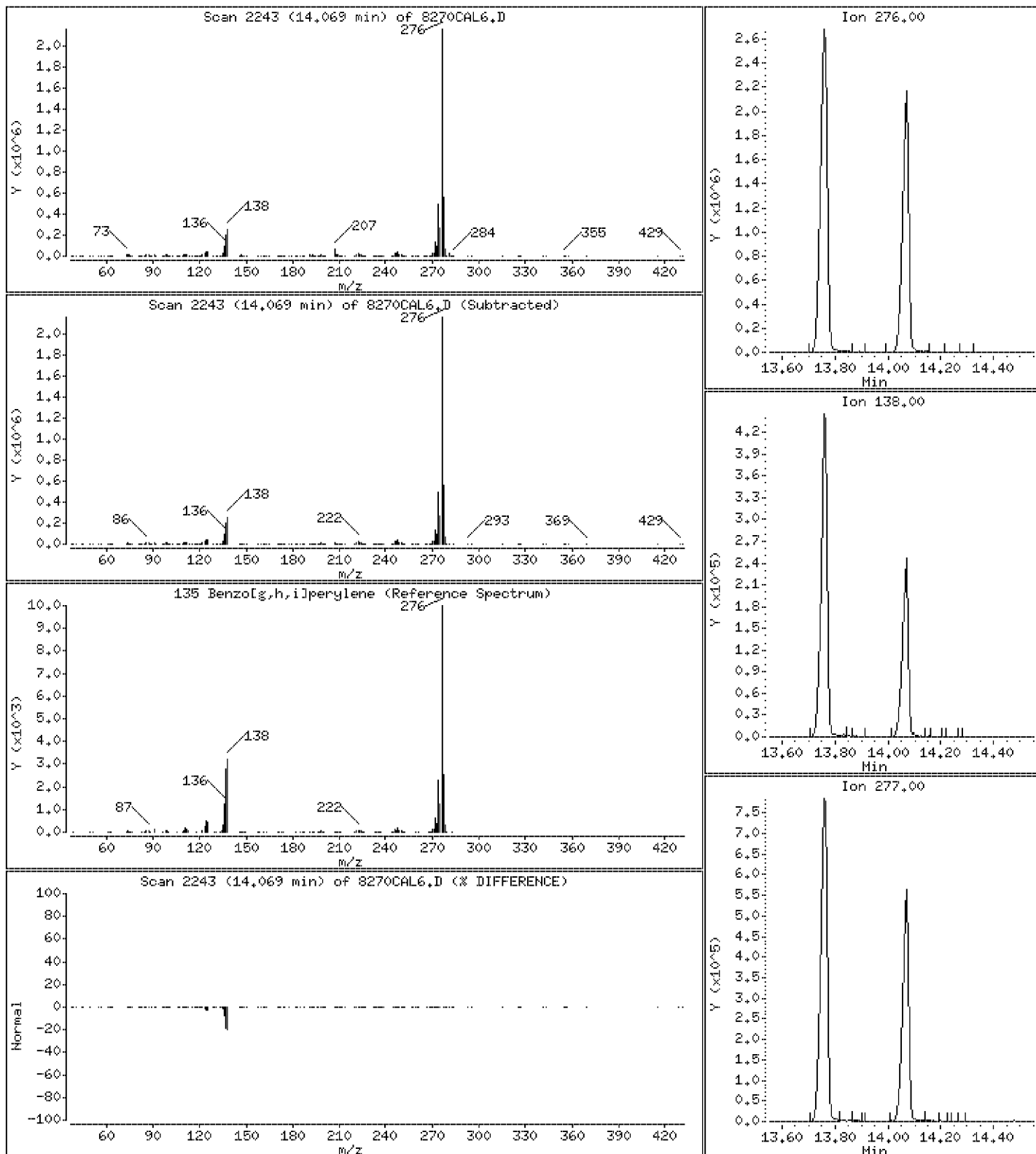
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

135 Benzo[*g,h,i*]perylene

Concentration: 70.3 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270CAL5.D
 Lab Smp Id: 45923 Client Smp ID: 8270CAL5
 Inj Date : 23-APR-2012 11:10 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 45923
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270bcs.m
 Meth Date : 25-Apr-2012 09:57 mjacobs Quant Type: ISTD
 Cal Date : 17-APR-2012 22:27 Cal File: AP9CAL7.D
 Als bottle: 3 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: 8270caln.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
2 Pyridine CAS #: 110-86-1									
2.380	2.381	(0.535)	79	776583	60.0000	61.0	80.00- 120.00	100.00	
2.379	2.381	(0.535)	52	292044			7.01- 67.01	37.61	
M 16 Cresols (Total) CAS #: 1319-77-3									
				1352359	120.000			(a)	
1 N-Nitrosodimethylamine CAS #: 62-75-9									
2.338	2.338	(0.526)	42	343482	60.0000	59.7	80.00- 120.00	100.00	
2.338	2.338	(0.526)	74	488963			112.35- 172.35	142.35	
2.339	2.338	(0.526)	44	16639			0.00- 34.21	4.84	
\$ 6 2-Fluorophenol (SURR) CAS #: 367-12-4									
3.383	3.383	(0.761)	112	1205450	120.000	123	80.00- 120.00	100.00	
3.383	3.383	(0.761)	64	746615			33.15- 93.15	61.94	
\$ 11 Phenol-d5 (SURR) CAS #: 4165-62-2									
4.141	4.139	(0.931)	99	1646423	120.000	125	80.00- 120.00	100.00	
4.141	4.139	(0.931)	42	314284			0.00- 48.89	19.09	
4.141	4.139	(0.931)	71	875318			23.76- 83.76	53.16	
13 Phenol CAS #: 108-95-2									
4.152	4.151	(0.934)	94	929648	60.0000	62.4	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
13 Phenol (continued)									
4.153	4.151	(0.934)	65	553146			31.39- 91.39	59.50	
4.153	4.151	(0.934)	66	1009521			81.48- 141.48	108.59	

10 Aniline CAS #: 62-53-3									
4.167	4.166	(0.937)	93	961259	60.0000	60.8	80.00- 120.00	100.00	
4.153	4.166	(0.934)	65	553147			26.91- 86.91	57.54	
4.153	4.166	(0.934)	66	1009523			73.34- 133.34	105.02	

14 Bis(2-Chloroethyl)ether CAS #: 111-44-4									
4.211	4.210	(0.947)	93	571615	60.0000	61.0	80.00- 120.00	100.00	
4.211	4.210	(0.947)	63	401222			42.30- 102.30	70.19	
4.211	4.210	(0.947)	95	184500			1.53- 61.53	32.28	

15 2-Chlorophenol CAS #: 95-57-8									
4.279	4.278	(0.962)	128	605244	60.0000	61.8	80.00- 120.00	100.00	
4.278	4.278	(0.962)	64	316696			20.72- 80.72	52.33	
4.279	4.278	(0.962)	130	197465			2.39- 62.39	32.63	

17 1,3-Dichlorobenzene CAS #: 541-73-1									
4.401	4.401	(0.989)	146	747778	60.0000	62.2	80.00- 120.00	100.00	
4.401	4.401	(0.989)	148	497818			36.16- 96.16	66.57	
4.400	4.401	(0.989)	111	334635			16.14- 76.14	44.75	

* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.448	4.448	(1.000)	152	338925	40.0000		80.00- 120.00	100.00	
4.447	4.448	(1.000)	115	212910			32.20- 92.20	62.82	
4.448	4.448	(1.000)	150	594942			139.77- 199.77	175.54	

19 1,4-Dichlorobenzene CAS #: 106-46-7									
4.463	4.462	(1.003)	146	773917	60.0000	61.1	80.00- 120.00	100.00	
4.463	4.462	(1.003)	148	510161			38.09- 98.09	65.92	
4.462	4.462	(1.003)	111	344590			14.50- 74.50	44.53	

21 Benzyl alcohol CAS #: 100-51-6									
4.568	4.567	(1.027)	108	431091	60.0000	64.2	80.00- 120.00	100.00	
4.568	4.567	(1.027)	79	711897			152.29- 212.29	165.14	
4.568	4.567	(1.027)	77	500818			97.26- 157.26	116.17	

20 1,2-Dichlorobenzene CAS #: 95-50-1									
4.600	4.599	(1.034)	146	701630	60.0000	60.8	80.00- 120.00	100.00	
4.600	4.599	(1.034)	148	477881			38.32- 98.32	68.11	
4.600	4.599	(1.034)	111	331598			18.14- 78.14	47.26	

22 2-Methylphenol CAS #: 95-48-7									
4.672	4.671	(1.050)	107	553710	60.0000	62.4	80.00- 120.00	100.00	
4.672	4.671	(1.050)	108	630729			82.43- 142.43	113.91	
4.672	4.671	(1.050)	79	474115			55.43- 115.43	85.63	

23 2,2'-oxybis(1-chloropropane) CAS #: 108-60-1									
4.676	4.675	(1.051)	45	395260	60.0000	60.4	80.00- 120.00	100.00	
4.672	4.675	(1.050)	77	537865			102.98- 162.98	136.08	
4.677	4.675	(1.051)	121	216601			24.22- 84.22	54.80	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
28 4-Methylphenol					CAS #: 106-44-5			
4.809	4.808	(1.081)	107	798649	60.0000	62.2	80.00- 120.00	100.00
4.809	4.808	(1.081)	108	660389			50.54- 110.54	82.69
4.809	4.808	(1.081)	79	254979			2.76- 62.76	31.93

26 N-Nitrosodipropylamine					CAS #: 621-64-7			
4.801	4.798	(1.079)	70	617050	60.0000	61.8	80.00- 120.00	100.00
4.800	4.798	(1.079)	42	237140			6.87- 66.87	38.43
4.802	4.798	(1.079)	130	120316			0.00- 49.23	19.50

30 Hexachloroethane					CAS #: 67-72-1			
4.902	4.902	(1.102)	117	304174	60.0000	60.8	80.00- 120.00	100.00
4.903	4.902	(1.102)	201	369564			90.07- 150.07	121.50
4.903	4.902	(1.102)	199	226745			43.69- 103.69	74.54

\$ 31 Nitrobenzene-d5 (SURR)					CAS #: 4165-60-0			
4.945	4.944	(0.881)	82	929435	60.0000	60.8	80.00- 120.00	100.00
4.946	4.944	(0.881)	128	305099			2.76- 62.76	32.83
4.945	4.944	(0.881)	54	348633			7.08- 67.08	37.51

32 Nitrobenzene					CAS #: 98-95-3			
4.963	4.962	(0.885)	77	895999	60.0000	59.4	80.00- 120.00	100.00
4.963	4.962	(0.885)	123	314361			4.18- 64.18	35.08
4.963	4.962	(0.885)	65	140750			0.00- 45.17	15.71

34 Isophorone					CAS #: 78-59-1			
5.178	5.176	(0.923)	82	1094088	60.0000	59.5	80.00- 120.00	100.00
5.179	5.176	(0.923)	138	173079			0.00- 46.29	15.82
5.179	5.176	(0.923)	95	98438			0.00- 39.21	9.00

35 2-Nitrophenol					CAS #: 88-75-5			
5.254	5.253	(0.936)	139	344562	60.0000	61.7	80.00- 120.00	100.00
5.253	5.253	(0.936)	65	243178			43.34- 103.34	70.58
5.254	5.253	(0.936)	109	170035			20.91- 80.91	49.35

36 2,4-Dimethylphenol					CAS #: 105-67-9			
5.295	5.294	(0.944)	122	515402	60.0000	60.0	80.00- 120.00	100.00
5.295	5.294	(0.944)	107	721013			111.45- 171.45	139.89
5.295	5.294	(0.944)	121	309657			28.89- 88.89	60.08

38 Bis(2-Chloroethoxy)methane					CAS #: 111-91-1			
5.370	5.369	(0.957)	93	747227	60.0000	60.0	80.00- 120.00	100.00
5.370	5.369	(0.957)	95	239768			3.06- 63.06	32.09
5.371	5.369	(0.957)	123	92964			0.00- 44.40	12.44

40 Benzoic Acid					CAS #: 65-85-0			
5.417	5.404	(0.966)	122	367114	60.0000	60.4	80.00- 120.00	100.00
5.417	5.404	(0.965)	105	512555			107.67- 167.67	139.62
5.415	5.404	(0.965)	77	489543			104.37- 164.37	133.35

41 2,4-Dichlorophenol					CAS #: 120-83-2			
5.491	5.490	(0.979)	162	635181	60.0000	62.6	80.00- 120.00	100.00
5.491	5.490	(0.979)	164	408488			36.50- 96.50	64.31

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
41 2,4-Dichlorophenol (continued)									
5.490	5.490	(0.978)	98	214960			5.73- 65.73	33.84	

42 1,2,4-Trichlorobenzene CAS #: 120-82-1									
5.555	5.555	(0.990)	180	770128	60.0000	60.8	80.00- 120.00	100.00	
5.555	5.555	(0.990)	182	728464			67.47- 127.47	94.59	
5.555	5.555	(0.990)	145	214610			0.00- 58.13	27.87	

* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.611	5.610	(1.000)	136	1133546	40.0000		80.00- 120.00	100.00	
5.610	5.610	(1.000)	68	63744			0.00- 35.51	5.62	

44 Naphthalene CAS #: 91-20-3									
5.631	5.630	(1.004)	128	1751260	60.0000	60.2	80.00- 120.00	100.00	
5.631	5.630	(1.004)	129	203435			0.00- 41.28	11.62	
5.631	5.630	(1.004)	127	245841			0.00- 43.27	14.04	

45 4-Chloroaniline CAS #: 106-47-8									
5.682	5.681	(1.013)	127	740731	60.0000	60.6	80.00- 120.00	100.00	
5.682	5.681	(1.013)	129	244379			2.39- 62.39	32.99	
5.682	5.681	(1.013)	65	298985			11.54- 71.54	40.36	

48 Hexachlorobutadiene CAS #: 87-68-3									
5.746	5.746	(1.024)	225	592832	60.0000	61.2	80.00- 120.00	100.00	
5.746	5.746	(1.024)	223	365445			32.02- 92.02	61.64	
5.746	5.746	(1.024)	227	376753			34.54- 94.54	63.55	

51 4-Chloro-3-methylphenol CAS #: 59-50-7									
6.159	6.158	(1.098)	107	594295	60.0000	60.9	80.00- 120.00	100.00	
6.160	6.158	(1.098)	144	151330			0.00- 55.95	25.46	
6.160	6.158	(1.098)	142	462043			44.47- 104.47	77.75	

53 2-Methylnaphthalene CAS #: 91-57-6									
6.290	6.289	(1.121)	142	1289643	60.0000	60.9	80.00- 120.00	100.00	
6.290	6.289	(1.121)	141	1124905			58.08- 118.08	87.23	

54 1-Methylnaphthalene CAS #: 90-12-0									
6.386	6.385	(1.138)	142	1151659	60.0000	59.9	80.00- 120.00	100.00	
6.386	6.385	(1.138)	141	1055537			61.72- 121.72	91.65	

55 Hexachlorocyclopentadiene CAS #: 77-47-4									
6.445	6.445	(0.882)	237	762808	60.0000	63.4	80.00- 120.00	100.00	
6.445	6.445	(0.882)	235	483016			33.37- 93.37	63.32	
6.446	6.445	(0.882)	272	106800			0.00- 43.74	14.00	

57 2,4,6-Trichlorophenol CAS #: 88-06-2									
6.620	6.620	(0.906)	196	600490	60.0000	63.3	80.00- 120.00	100.00	
6.621	6.620	(0.906)	198	554374			67.07- 127.07	92.32	
6.620	6.620	(0.906)	200	189995			1.30- 61.30	31.64	

58 2,4,5-Trichlorophenol CAS #: 95-95-4									
6.571	6.570	(0.899)	196	551681	60.0000	62.9	80.00- 120.00	100.00	
6.571	6.570	(0.899)	198	527893			69.46- 129.46	95.69	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
58 2,4,5-Trichlorophenol (continued)									
6.570	6.570	(0.899)	97	338954			34.72- 94.72	61.44	

\$ 59 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.645	6.644	(0.910)	172	1810867	60.0000	61.4	80.00- 120.00	100.00	
6.645	6.644	(0.910)	171	658826			5.03- 65.03	36.38	

62 2-Chloronaphthalene CAS #: 91-58-7									
6.763	6.763	(0.926)	162	1377180	60.0000	61.7	80.00- 120.00	100.00	
6.763	6.763	(0.926)	164	486073			4.20- 64.20	35.29	
6.763	6.763	(0.926)	127	529353			7.85- 67.85	38.44	

63 2-Nitroaniline CAS #: 88-74-4									
6.870	6.869	(0.940)	65	481810	60.0000	62.6	80.00- 120.00	100.00	
6.870	6.869	(0.940)	92	290157			30.25- 90.25	60.22	
6.871	6.869	(0.940)	138	395912			52.43- 112.43	82.17	

65 Dimethylphthalate CAS #: 131-11-3									
7.042	7.040	(0.964)	163	1570280	60.0000	61.2	80.00- 120.00	100.00	
7.042	7.040	(0.964)	194	91294			0.00- 35.55	5.81	
7.041	7.040	(0.964)	164	173147			0.00- 40.55	11.03	

68 Acenaphthylene CAS #: 208-96-8									
7.168	7.167	(0.981)	152	2039067	60.0000	61.7	80.00- 120.00	100.00	
7.168	7.167	(0.981)	151	419302			0.00- 50.50	20.56	
7.168	7.167	(0.981)	153	286125			0.00- 43.76	14.03	

67 2,6-Dinitrotoluene CAS #: 606-20-2									
7.103	7.100	(0.972)	165	368556	60.0000	63.5	80.00- 120.00	100.00	
7.102	7.100	(0.972)	89	279407			49.02- 109.02	75.81	
7.101	7.100	(0.972)	63	274717			44.86- 104.86	74.54	

69 3-Nitroaniline CAS #: 99-09-2									
7.274	7.271	(0.996)	138	312659	60.0000	60.7	80.00- 120.00	100.00	
7.274	7.271	(0.996)	108	33749			0.00- 41.32	10.79	
7.273	7.271	(0.995)	92	397041			100.05- 160.05	126.99	

* 70 Acenaphthene-d10 CAS #: 15067-26-2									
7.306	7.305	(1.000)	164	761863	40.0000		80.00- 120.00	100.00	
7.306	7.305	(1.000)	162	736093			64.73- 124.73	96.62	
7.306	7.305	(1.000)	160	340146			12.46- 72.46	44.65	

71 Acenaphthene CAS #: 83-32-9									
7.339	7.338	(1.005)	154	1250803	60.0000	62.4	80.00- 120.00	100.00	
7.339	7.338	(1.005)	153	1358999			78.46- 138.46	108.65	
7.339	7.338	(1.005)	152	666080			23.44- 83.44	53.25	

72 2,4-Dinitrophenol CAS #: 51-28-5									
7.371	7.369	(1.009)	184	239792	60.0000	60.4	80.00- 120.00	100.00	
7.370	7.369	(1.009)	63	177342			48.07- 108.07	73.96	
7.371	7.369	(1.009)	154	156626			39.61- 99.61	65.32	

74 4-Nitrophenol CAS #: 100-02-7									
7.477	7.476	(1.023)	109	353421	60.0000	63.1	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	=====	=====	=====	=====	=====	=====	=====
74 4-Nitrophenol (continued)									
7.477	7.476	(1.023)	139	208221			26.63-	86.63	58.92
7.477	7.476	(1.023)	65	393597			81.59-	141.59	111.37

75 Dibenzofuran CAS #: 132-64-9									
7.507	7.506	(1.027)	168	1992121	60.0000	61.1	80.00-	120.00	100.00
7.507	7.506	(1.027)	139	871350			12.75-	72.75	43.74

76 2,4-Dinitrotoluene CAS #: 121-14-2									
7.496	7.494	(1.026)	165	509754	60.0000	62.7	80.00-	120.00	100.00
7.496	7.494	(1.026)	63	528800			82.10-	142.10	103.74
7.496	7.494	(1.026)	89	508440			72.08-	132.08	99.74

80 Diethylphthalate CAS #: 84-66-2									
7.731	7.729	(1.058)	149	1446823	60.0000	61.1	80.00-	120.00	100.00
7.731	7.729	(1.058)	177	342190			0.00-	53.36	23.65
7.731	7.729	(1.058)	150	187889			0.00-	42.43	12.99

81 Fluorene CAS #: 86-73-7									
7.842	7.841	(1.073)	166	1797825	60.0000	63.7	80.00-	120.00	100.00
7.842	7.841	(1.073)	165	1702186			65.55-	125.55	94.68
7.842	7.841	(1.073)	167	263318			0.00-	44.15	14.65

82 4-Chlorophenyl-phenylether CAS #: 7005-72-3									
7.839	7.838	(1.073)	204	1090308	60.0000	64.4	80.00-	120.00	100.00
7.839	7.838	(1.073)	206	379477			4.27-	64.27	34.80
7.838	7.838	(1.073)	141	593347			24.97-	84.97	54.42

84 4-Nitroaniline CAS #: 100-01-6									
7.878	7.874	(1.078)	138	271442	60.0000	60.9	80.00-	120.00	100.00
7.878	7.874	(1.078)	92	171673			38.02-	98.02	63.24
7.878	7.874	(1.078)	108	407340			124.92-	184.92	150.07

85 4,6-Dinitro-2-methylphenol CAS #: 534-52-1									
7.899	7.896	(0.902)	198	358134	60.0000	58.7	80.00-	120.00	100.00
7.897	7.896	(0.901)	51	132448			6.77-	66.77	36.98
7.898	7.896	(0.901)	105	137711			8.50-	68.50	38.45

86 N-Nitrosodiphenylamine CAS #: 86-30-6									
7.959	7.956	(0.908)	169	1033795	60.0000	60.0	80.00-	120.00	100.00
7.959	7.956	(0.908)	168	687263			36.61-	96.61	66.48
7.959	7.956	(0.908)	167	368778			4.62-	64.62	35.67

87 1,2-Diphenylhydrazine CAS #: 122-66-7									
7.996	7.992	(1.094)	77	1652860	60.0000	60.6	80.00-	120.00	100.00
7.996	7.992	(1.094)	105	227640			0.00-	43.34	13.77
7.997	7.992	(1.095)	182	441516			0.00-	56.11	26.71

\$ 88 2,4,6-Tribromophenol (SURR) CAS #: 118-79-6									
8.085	8.083	(1.107)	330	667712	120.0000	125	80.00-	120.00	100.00
8.085	8.083	(1.107)	332	655227			66.43-	126.43	98.13
8.083	8.083	(1.106)	141	264997			9.24-	69.24	39.69

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
93 4-Bromophenylphenylether					CAS #: 101-55-3			
8.318	8.318	(0.949)	248	611944	60.0000	61.2	80.00- 120.00	100.00
8.319	8.318	(0.949)	250	593952			67.36- 127.36	97.06
8.318	8.318	(0.949)	141	398157			35.77- 95.77	65.06

94 Hexachlorobenzene					CAS #: 118-74-1			
8.387	8.387	(0.957)	284	714181	60.0000	62.1	80.00- 120.00	100.00
8.386	8.387	(0.957)	142	234112			2.39- 62.39	32.78
8.387	8.387	(0.957)	249	218809			0.06- 60.06	30.64

96 Pentachlorophenol					CAS #: 87-86-5			
8.585	8.585	(0.980)	266	430368	60.0000	63.7	80.00- 120.00	100.00
8.585	8.585	(0.980)	264	268654			33.70- 93.70	62.42
8.585	8.585	(0.980)	268	275043			35.26- 95.26	63.91

* 100 Phenanthrene-d10					CAS #: 1517-22-2			
8.762	8.761	(1.000)	188	1368300	40.0000		80.00- 120.00	100.00
8.761	8.761	(1.000)	94	86008			0.00- 36.35	6.29
8.761	8.761	(1.000)	80	107716			0.00- 37.82	7.87

101 Phenanthrene					CAS #: 85-01-8			
8.786	8.785	(1.003)	178	2130280	60.0000	60.4	80.00- 120.00	100.00
8.786	8.785	(1.003)	179	363361			0.00- 46.33	17.06
8.786	8.785	(1.003)	176	445930			0.00- 50.11	20.93

103 Anthracene					CAS #: 120-12-7			
8.835	8.835	(1.008)	178	2169248	60.0000	61.8	80.00- 120.00	100.00
8.836	8.835	(1.008)	179	353608			0.00- 45.97	16.30
8.835	8.835	(1.008)	176	444005			0.00- 49.80	20.47

104 Carbazole					CAS #: 86-74-8			
8.997	8.996	(1.027)	167	1740278	60.0000	59.5	80.00- 120.00	100.00
8.997	8.996	(1.027)	139	246316			0.00- 43.89	14.15
8.996	8.996	(1.027)	83	113376			0.00- 36.17	6.51

105 Di-n-butylphthalate					CAS #: 84-74-2			
9.327	9.327	(1.065)	149	2283587	60.0000	61.8	80.00- 120.00	100.00
9.327	9.327	(1.065)	150	236012			0.00- 40.04	10.34
9.327	9.327	(1.064)	104	184659			0.00- 37.79	8.09

109 Fluoranthene					CAS #: 206-44-0			
9.953	9.953	(1.136)	202	2409656	60.0000	59.6	80.00- 120.00	100.00
9.952	9.953	(1.136)	101	179008			0.00- 36.69	7.43
9.953	9.953	(1.136)	203	470138			0.00- 48.82	19.51

111 Pyrene					CAS #: 129-00-0			
10.177	10.176	(0.896)	202	2630155	60.0000	55.7	80.00- 120.00	100.00
10.177	10.176	(0.896)	200	595942			0.00- 51.88	22.66
10.177	10.176	(0.896)	203	522824			0.00- 49.33	19.88

\$ 112 Terphenyl-d14 (SURR)					CAS #: 1718-51-0			
10.323	10.322	(0.909)	244	2458800	60.0000	54.8	80.00- 120.00	100.00
10.322	10.322	(0.909)	122	179071			0.00- 36.72	7.28

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 112 Terphenyl-d14 (SURR) (continued)								
10.323	10.322	(0.909)	212	201451			0.00- 38.06	8.19

118 Butylbenzylphthalate						CAS #: 85-68-7		
10.799	10.798	(0.951)	149	1223119	60.0000	59.8	80.00- 120.00	100.00
10.798	10.798	(0.951)	91	986955			51.57- 111.57	80.69
10.800	10.798	(0.951)	206	322125			0.00- 55.14	26.34

120 Benzo[a]anthracene						CAS #: 56-55-3		
11.349	11.348	(0.999)	228	3574118	60.0000	59.9	80.00- 120.00	100.00
11.350	11.348	(0.999)	229	831502			0.00- 51.57	23.26
11.350	11.348	(0.999)	226	1101327			0.00- 58.54	30.81

* 121 Chrysene-d12						CAS #: 1719-03-5		
11.359	11.359	(1.000)	240	2377415	40.0000		80.00- 120.00	100.00
11.358	11.359	(1.000)	120	155616			0.00- 36.38	6.55
11.359	11.359	(1.000)	236	647117			0.00- 57.06	27.22

123 Chrysene						CAS #: 218-01-9		
11.386	11.384	(1.002)	228	2949500	60.0000	56.4	80.00- 120.00	100.00
11.386	11.384	(1.002)	226	976770			1.12- 61.12	33.12
11.386	11.384	(1.002)	229	682086			0.00- 51.74	23.13

124 Bis-2-Ethylhexylphthalate						CAS #: 117-81-7		
11.351	11.350	(0.999)	149	2214972	60.0000	62.6	80.00- 120.00	100.00
11.352	11.350	(0.999)	167	756934			2.07- 62.07	34.17
11.353	11.350	(0.999)	279	228714			0.00- 39.24	10.33

125 Di-n-octylphthalate						CAS #: 117-84-0		
11.950	11.948	(0.942)	149	2765315	60.0000	63.8	80.00- 120.00	100.00
11.951	11.948	(0.942)	167	52450			0.00- 31.74	1.90
11.950	11.948	(0.942)	43	242708			0.00- 38.21	8.78

127 Benzo[b]fluoranthene						CAS #: 205-99-2		
12.338	12.333	(0.973)	252	3233854	60.0000	60.5	80.00- 120.00	100.00
12.338	12.333	(0.973)	253	792846			0.00- 54.02	24.52
12.337	12.333	(0.972)	125	175525			0.00- 34.93	5.43

128 Benzo[k]fluoranthene						CAS #: 207-08-9		
12.364	12.359	(0.975)	252	3285171	60.0000	61.1	80.00- 120.00	100.00
12.364	12.359	(0.975)	253	847383			0.00- 53.57	25.79
12.363	12.359	(0.975)	125	205409			0.00- 35.26	6.25

129 Benzo[a]pyrene						CAS #: 50-32-8		
12.635	12.630	(0.996)	252	3207565	60.0000	61.4	80.00- 120.00	100.00
12.635	12.630	(0.996)	253	786381			0.00- 54.04	24.52
12.634	12.630	(0.996)	125	190797			0.00- 35.52	5.95

* 130 Perylene-d12						CAS #: 1520-96-3		
12.686	12.682	(1.000)	264	2012276	40.0000		80.00- 120.00	100.00
12.686	12.682	(1.000)	260	509892			0.00- 54.80	25.34
12.686	12.682	(1.000)	265	470912			0.00- 53.39	23.40

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	=====	=====	=====	=====	=====	=====	=====
133 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5				
13.756	13.749	(1.084)	276	3944027	60.0000	60.6	80.00- 120.00	100.00	
13.758	13.749	(1.084)	138	524068			0.00- 42.48	13.29	
13.757	13.749	(1.084)	277	1090122			0.00- 56.82	27.64	

134 Dibenz[a,h]anthracene					CAS #: 53-70-3				
13.763	13.755	(1.085)	278	3522818	60.0000	62.0	80.00- 120.00	100.00	
13.761	13.755	(1.085)	139	296606			0.00- 37.70	8.42	
13.762	13.755	(1.085)	279	900081			0.00- 54.57	25.55	

135 Benzo[g,h,i]perylene					CAS #: 191-24-2				
14.063	14.053	(1.109)	276	2908509	60.0000	58.5	80.00- 120.00	100.00	
14.061	14.053	(1.108)	138	307762			0.00- 40.01	10.58	
14.063	14.053	(1.109)	277	729389			0.00- 54.80	25.08	

QC Flag Legend

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

Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

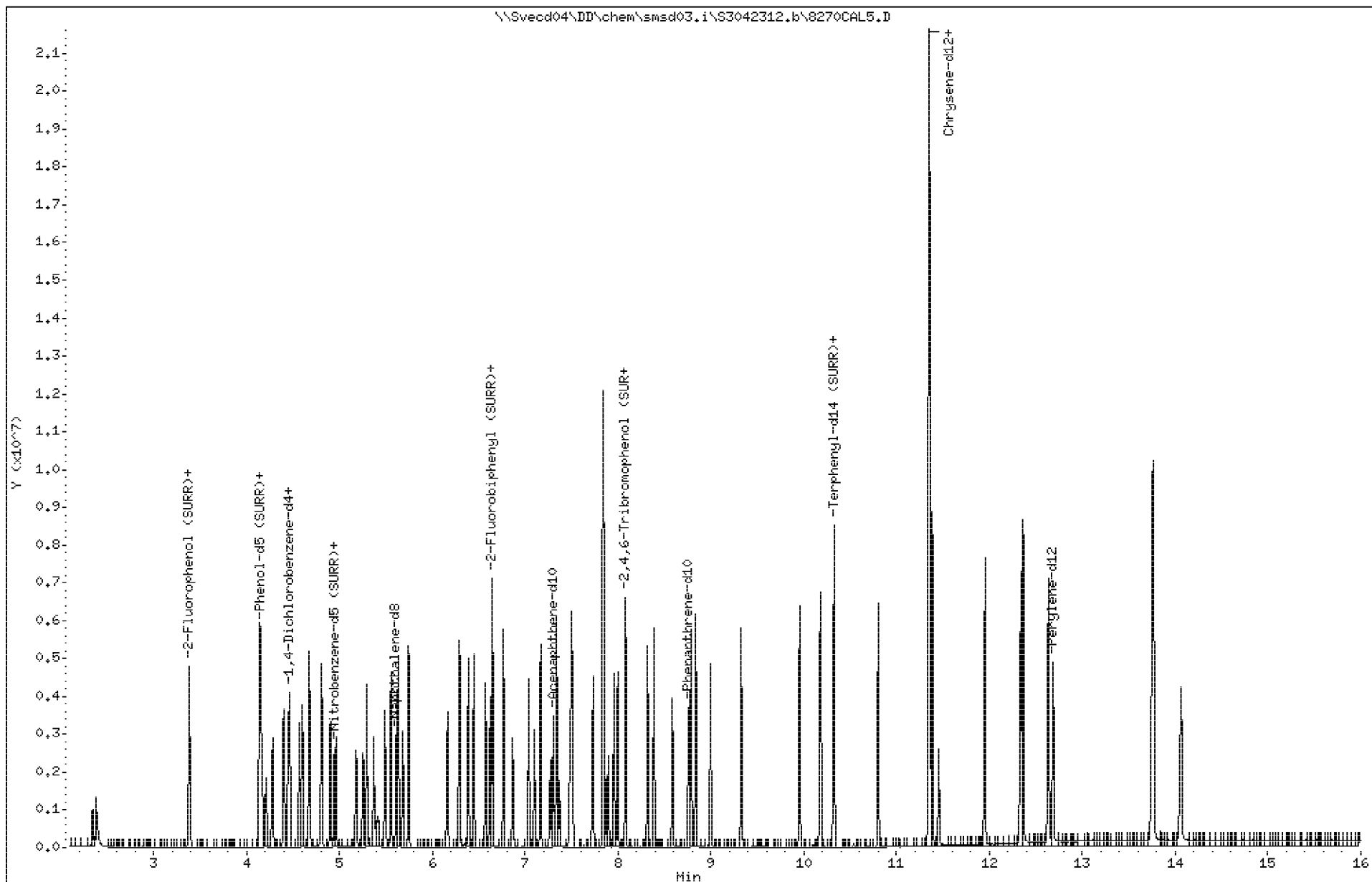
Sample Info: 45923

Operator: PEL

Purge Volume: 1000.0

Column diameter: 0.25

Column phase: HPMS-5



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

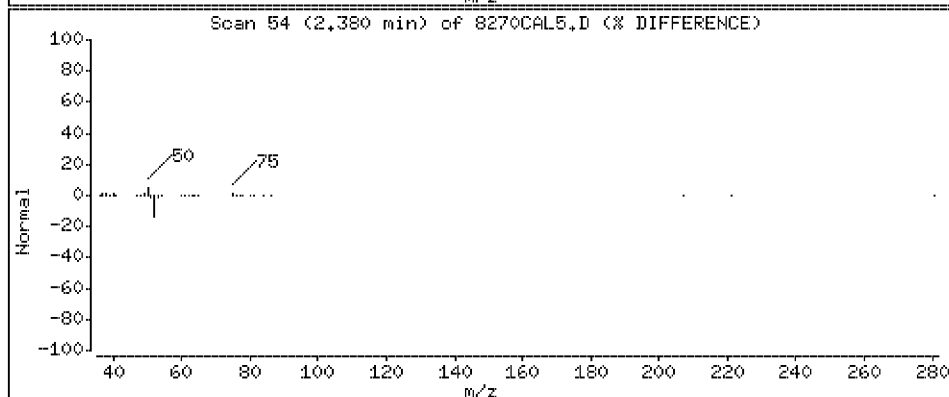
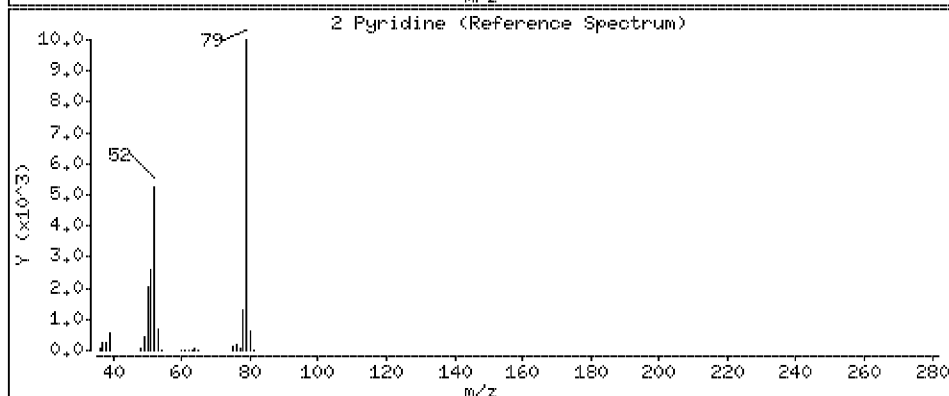
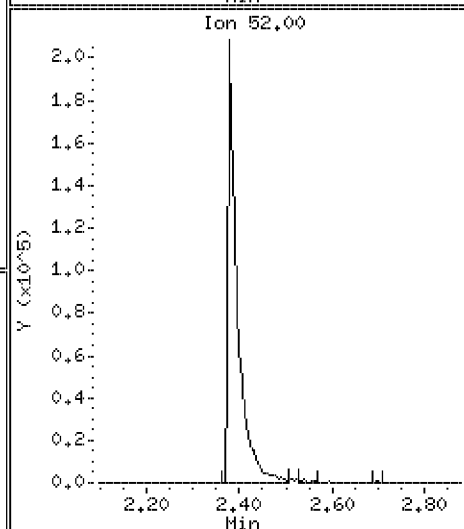
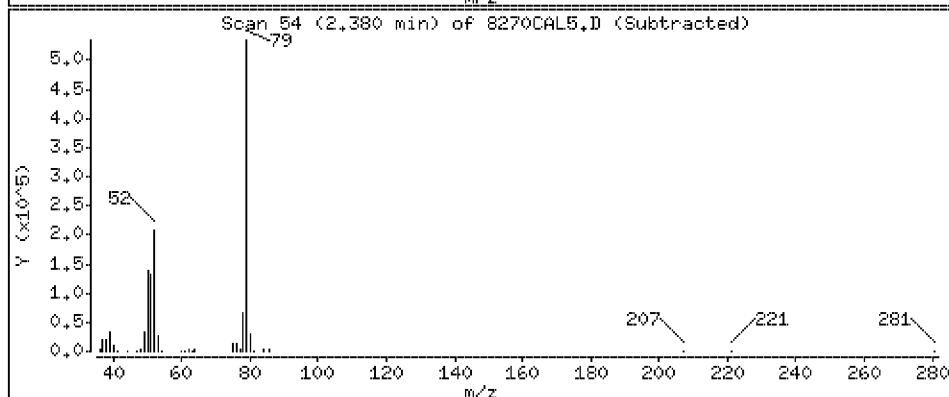
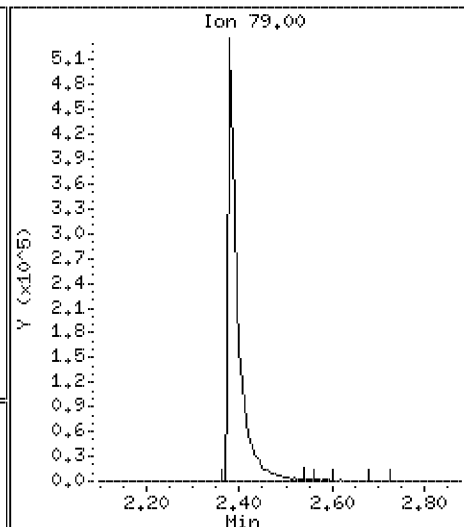
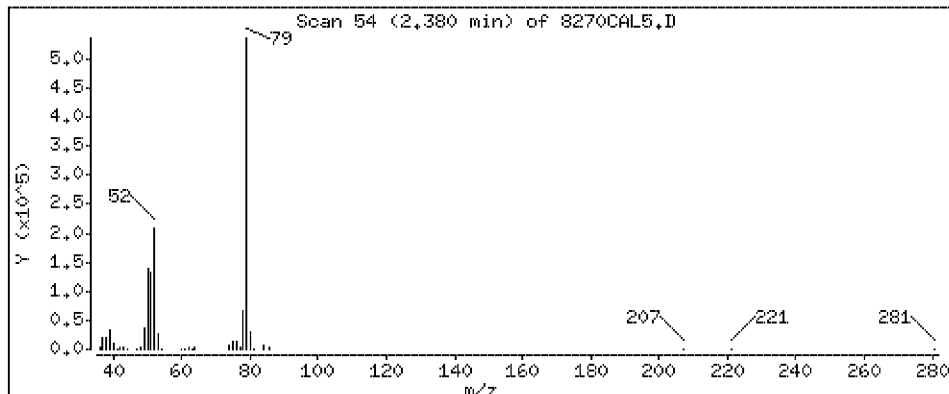
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

2 Pyridine

Concentration: 61.0 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

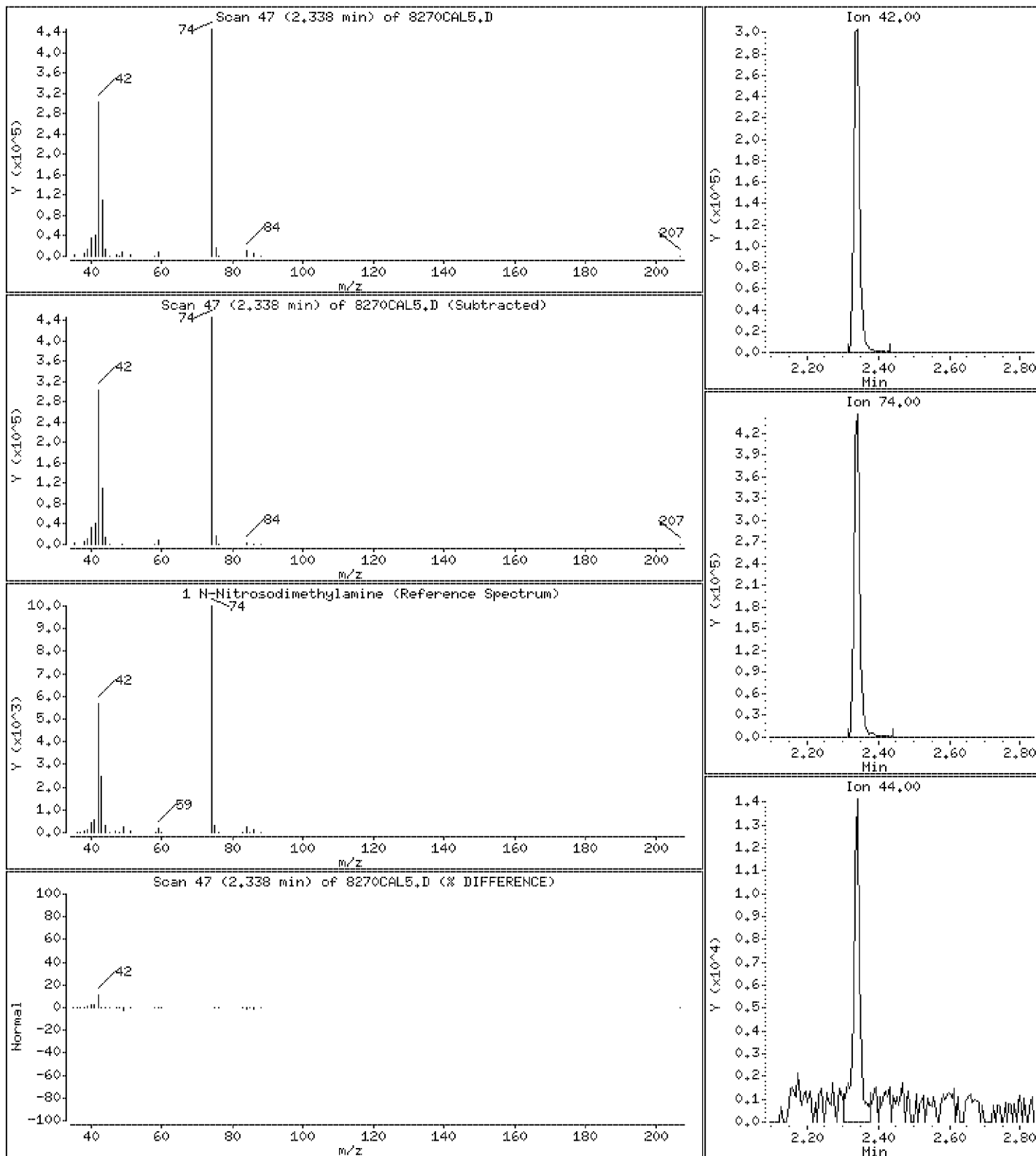
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

1 N-Nitrosodimethylamine

Concentration: 59.7 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

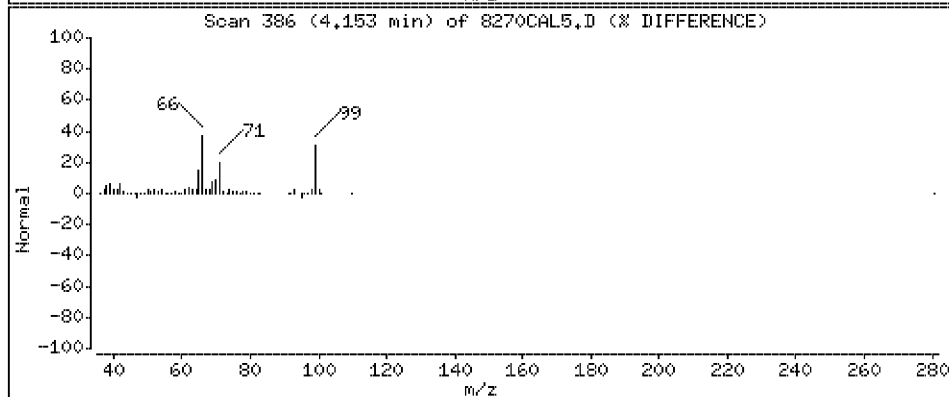
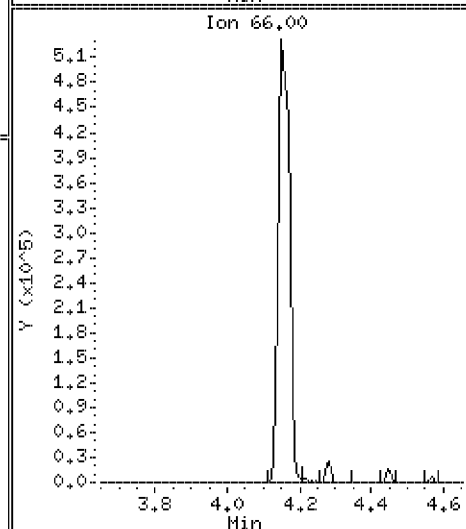
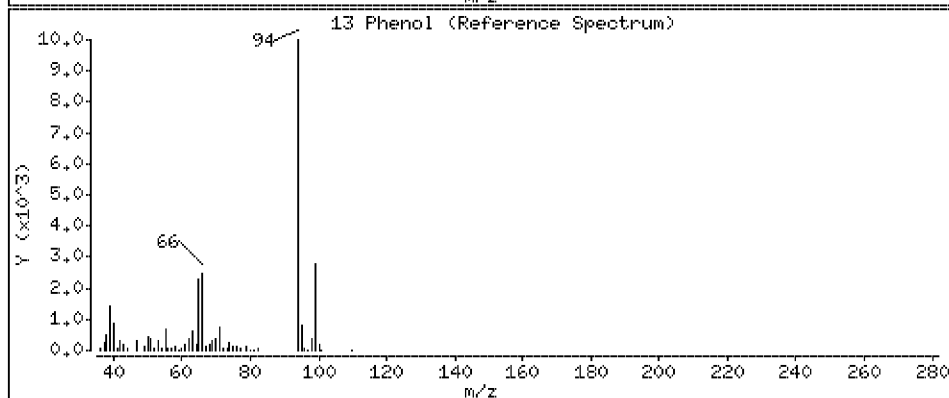
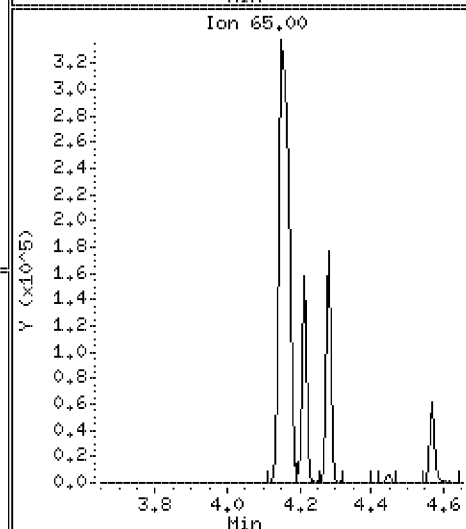
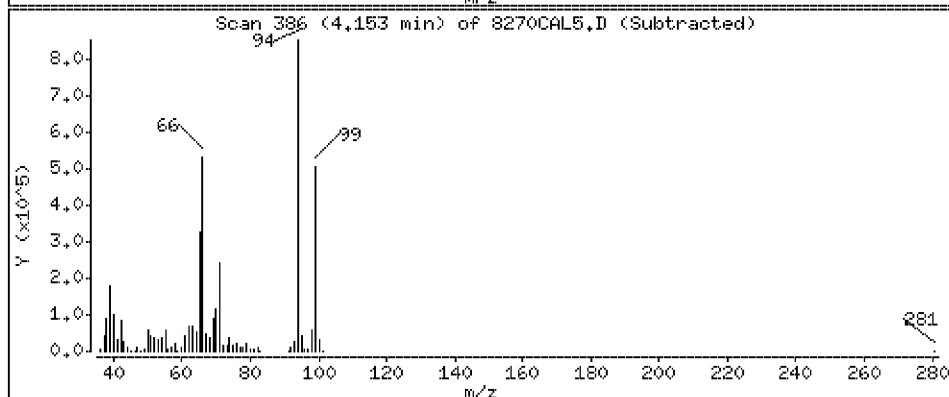
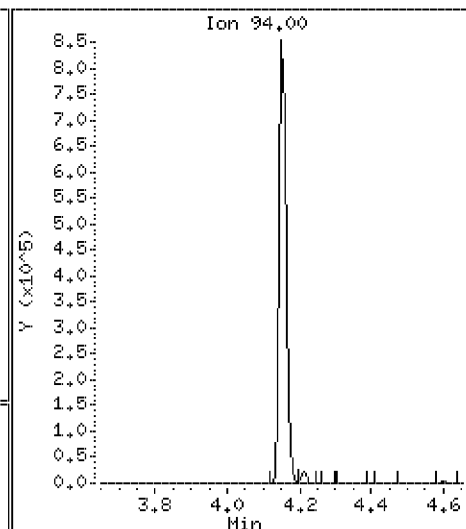
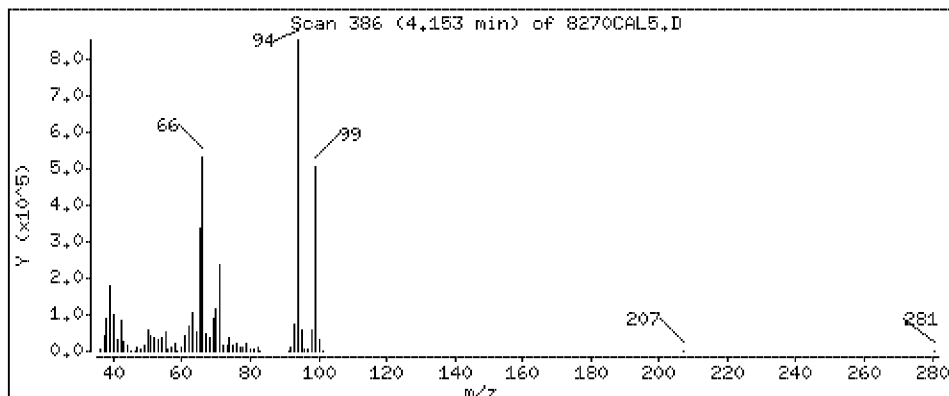
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

13 Phenol

Concentration: 62.4 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

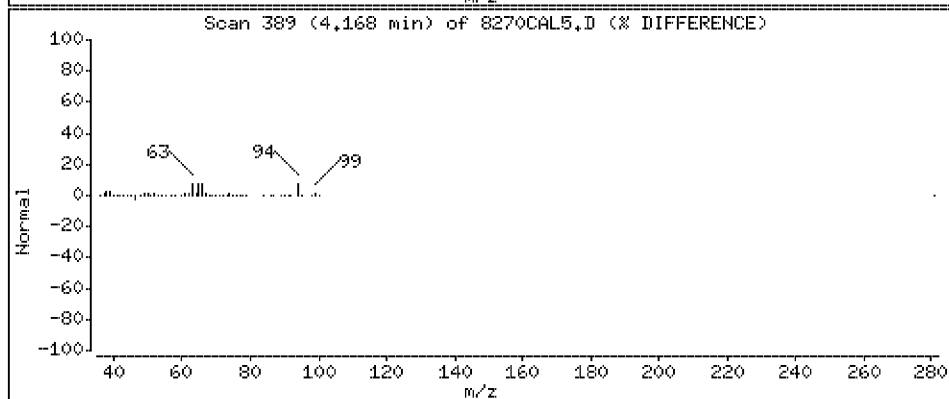
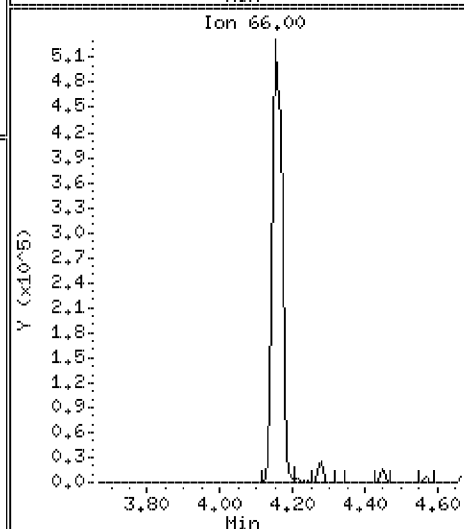
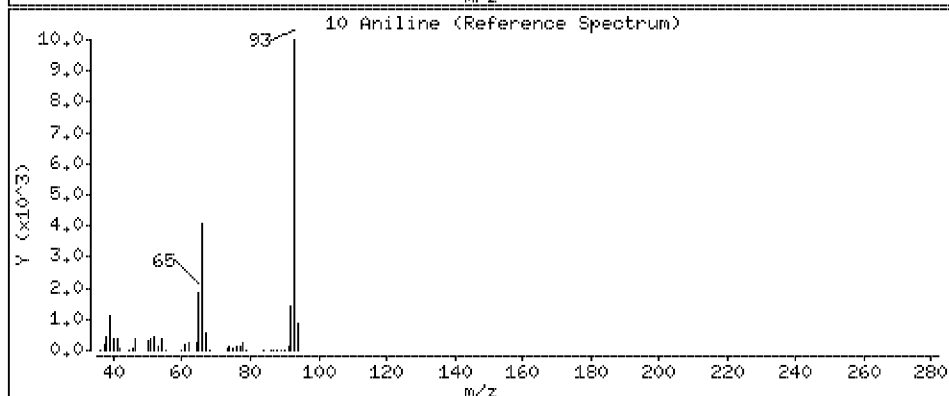
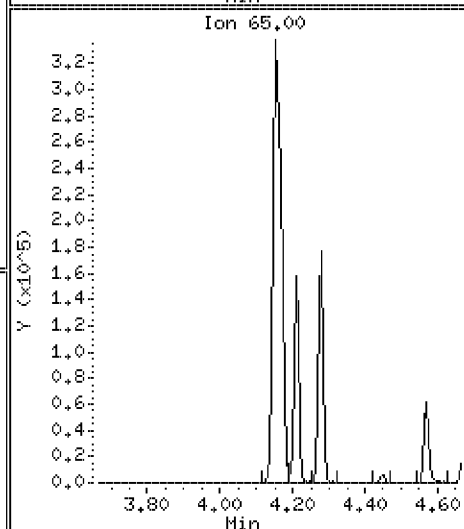
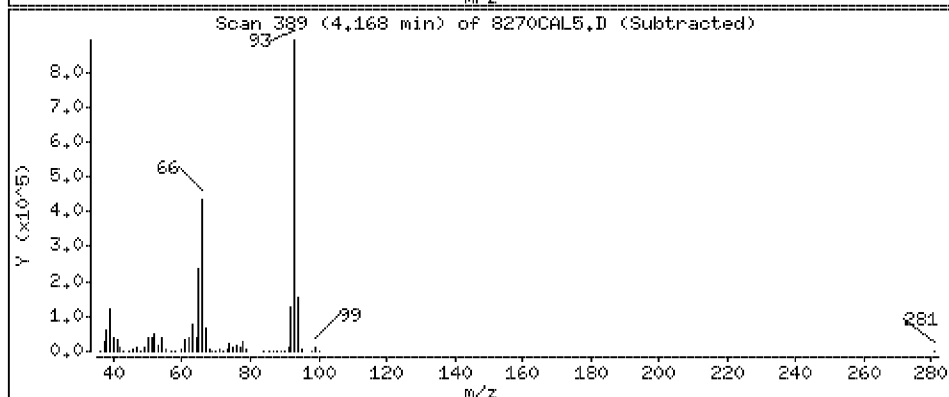
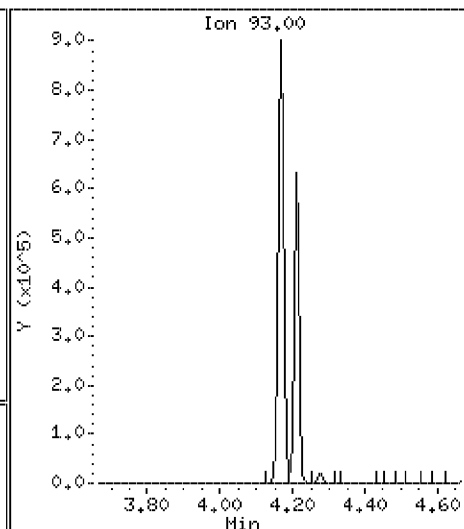
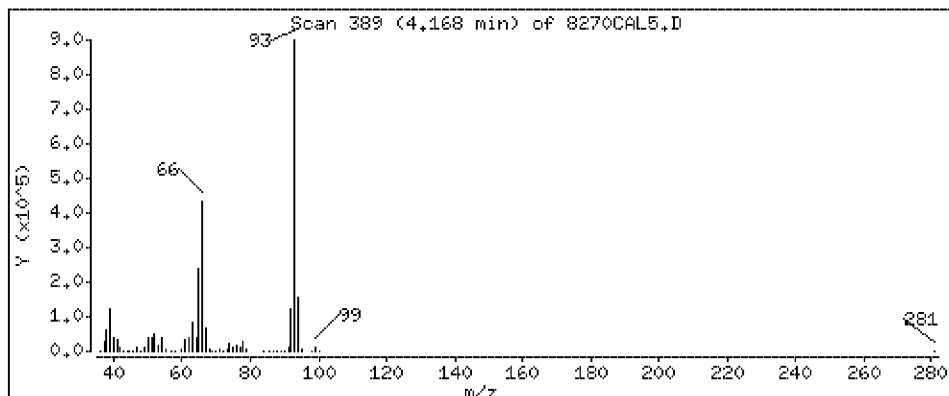
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

10 Aniline

Concentration: 60.8 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

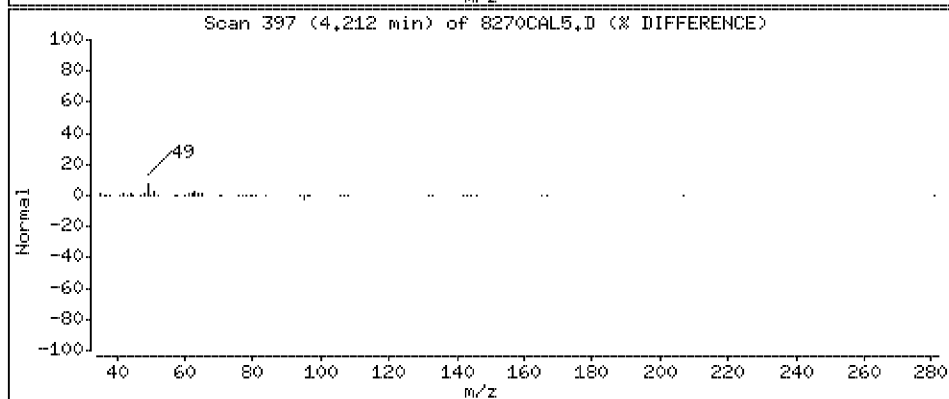
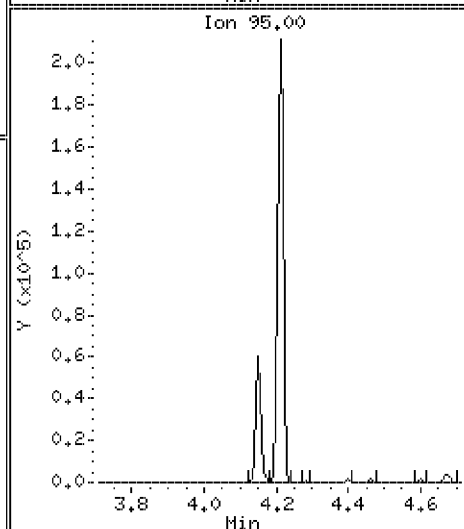
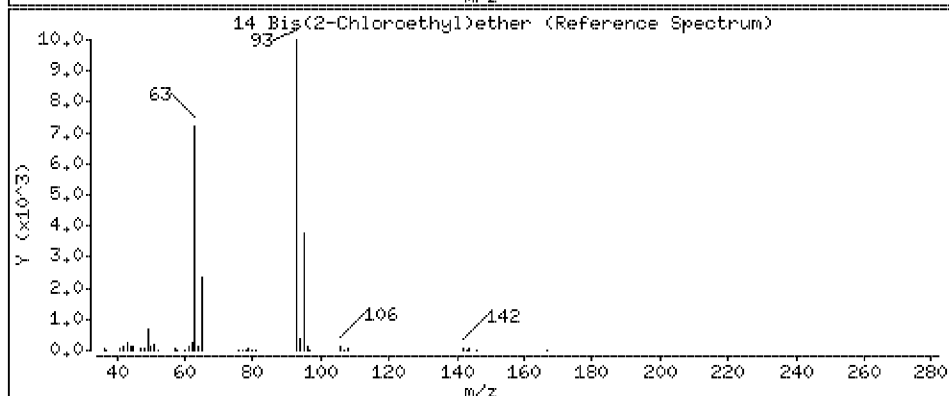
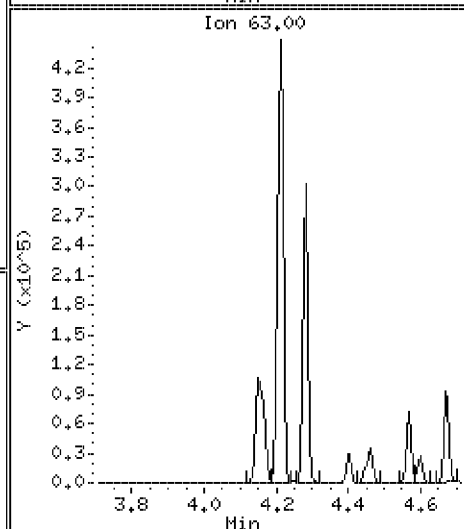
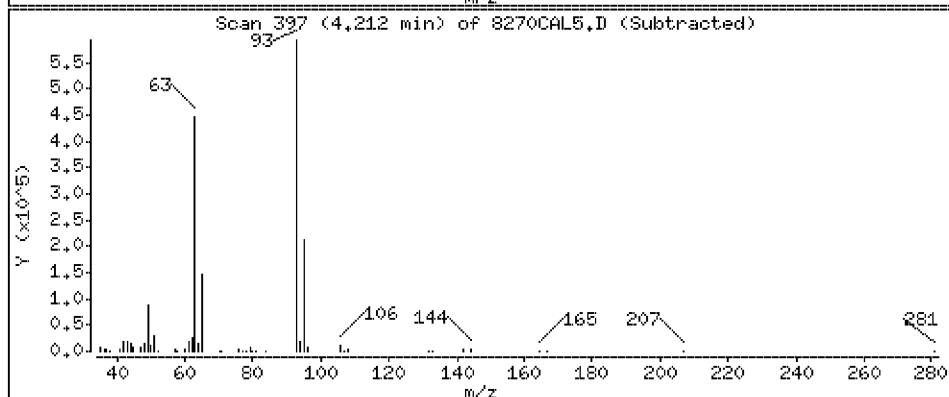
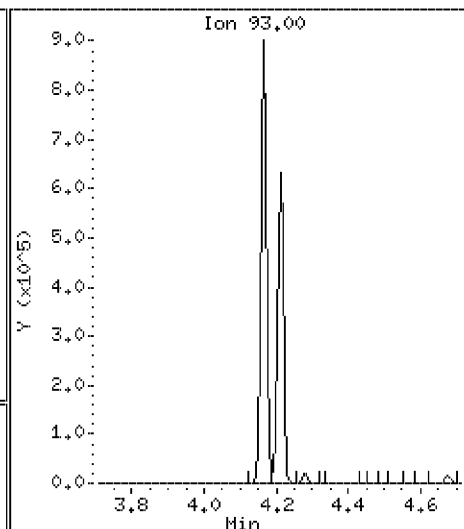
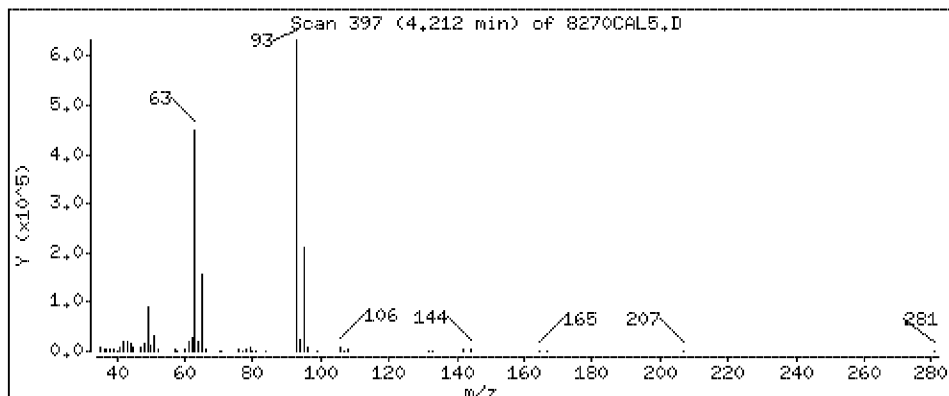
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

14 Bis(2-Chloroethyl)ether

Concentration: 61.0 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

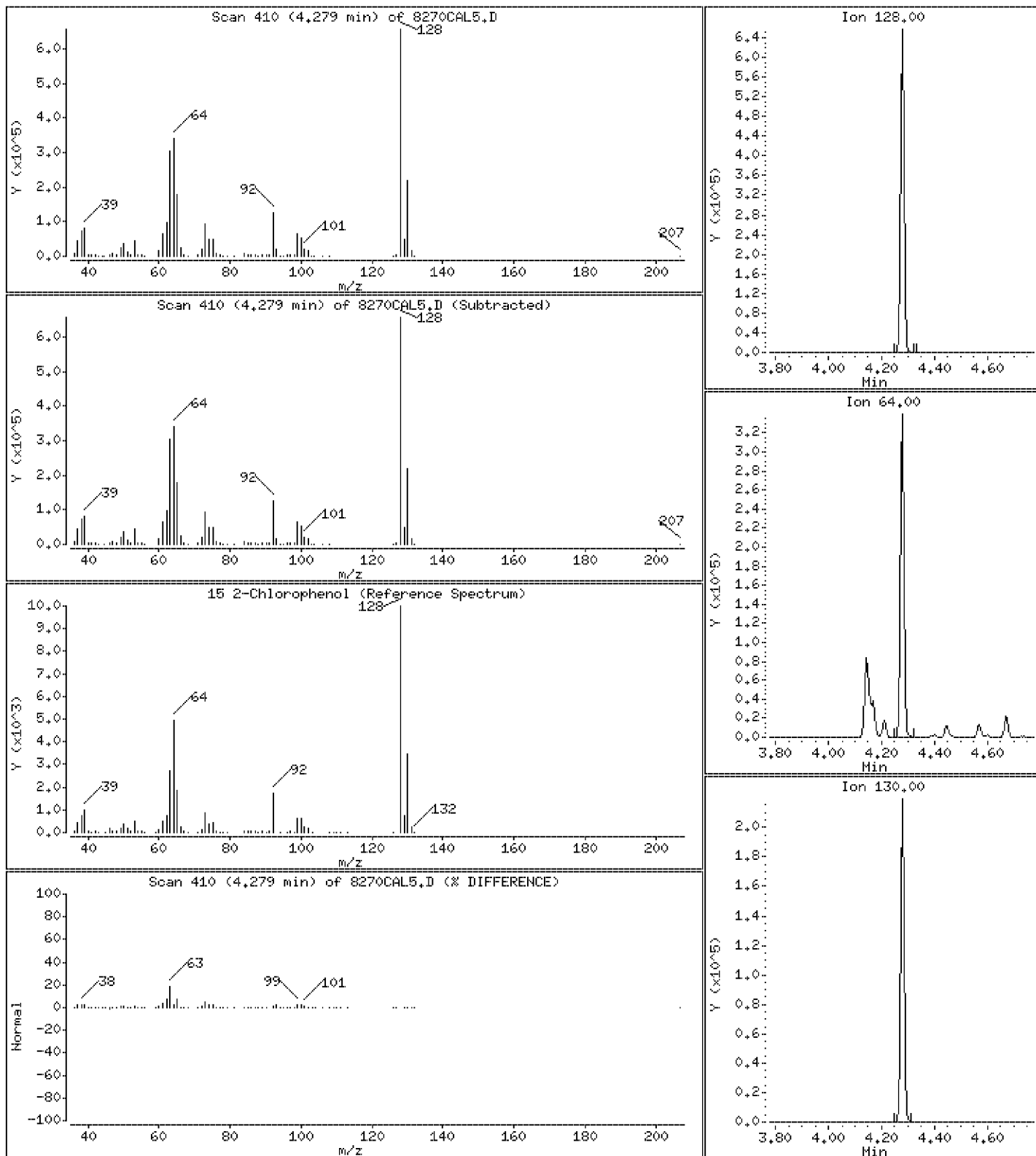
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

15 2-Chlorophenol

Concentration: 61.8 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

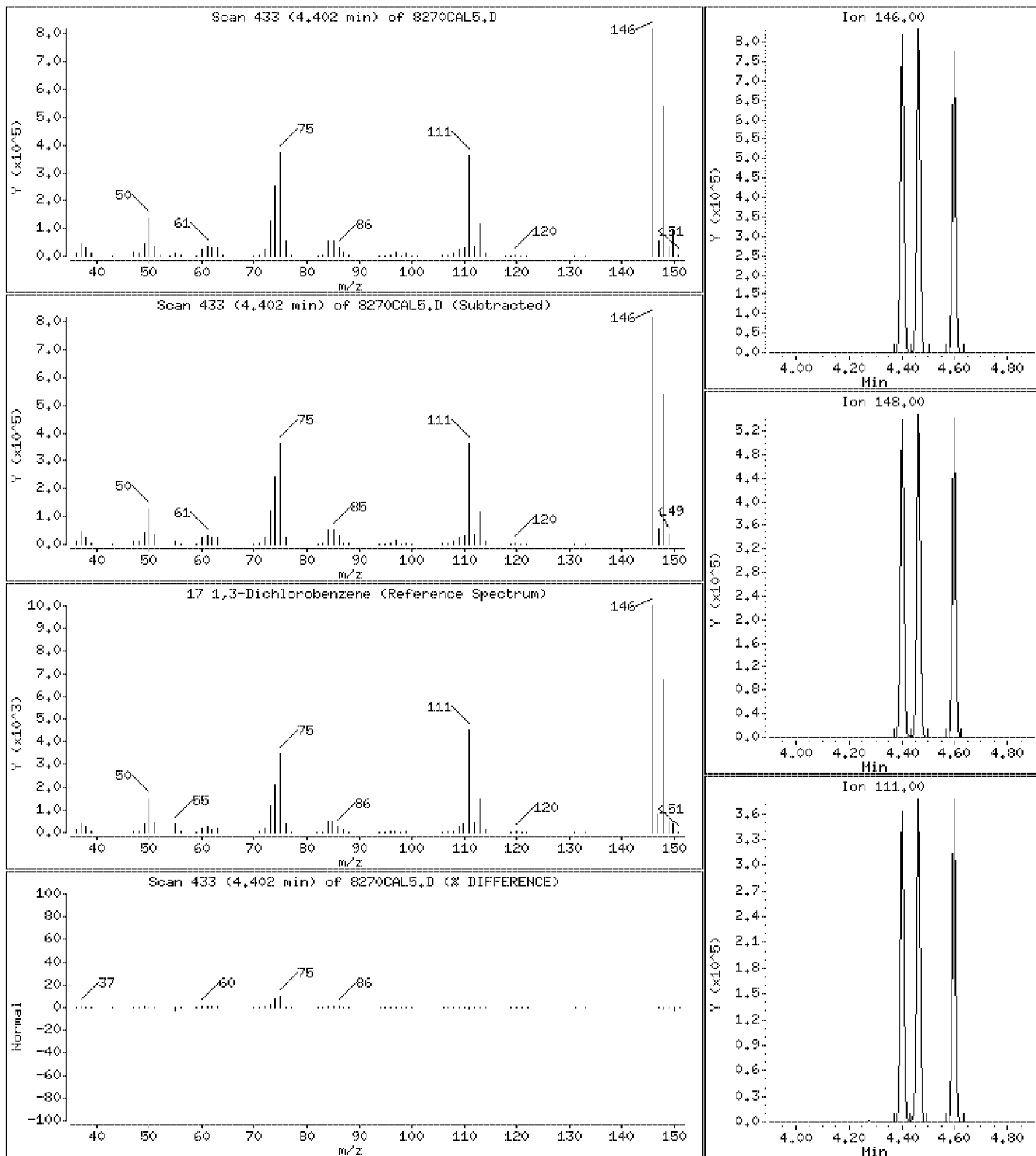
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

17 1,3-Dichlorobenzene

Concentration: 62.2 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

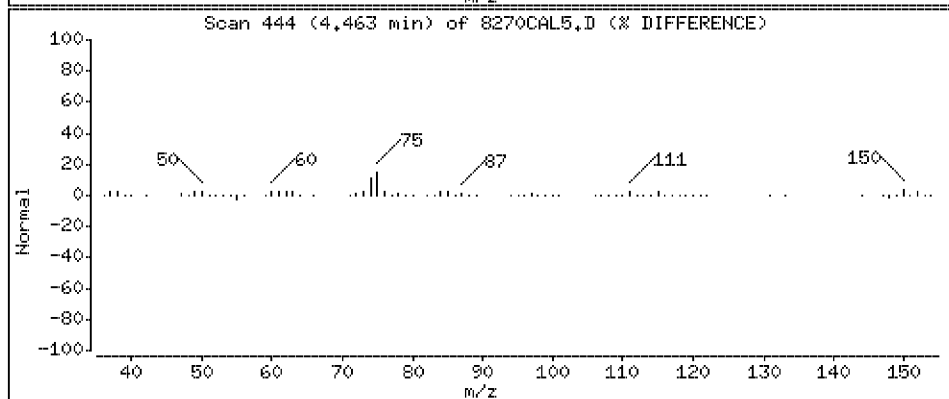
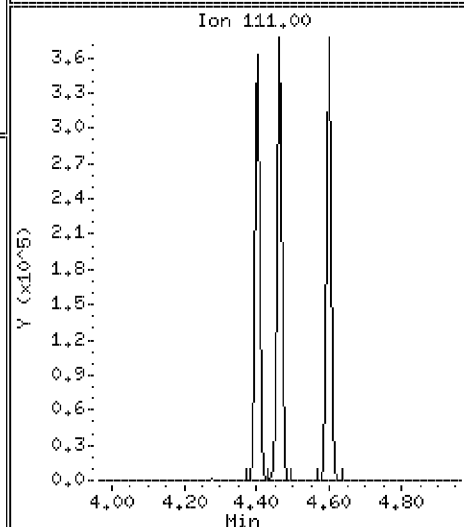
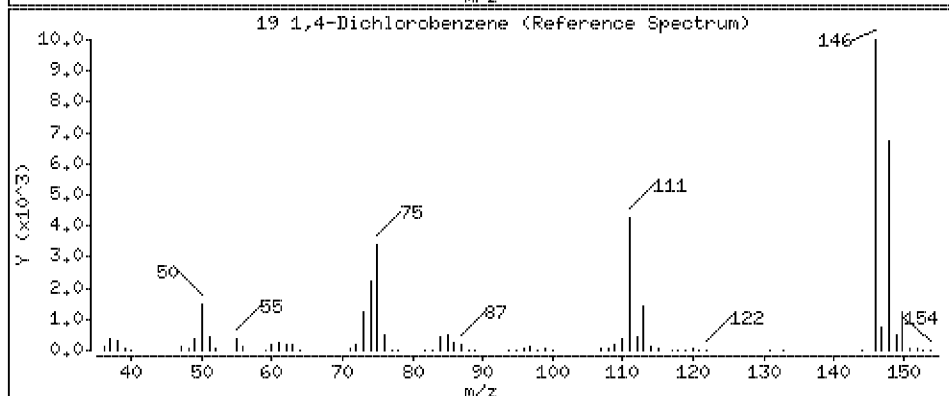
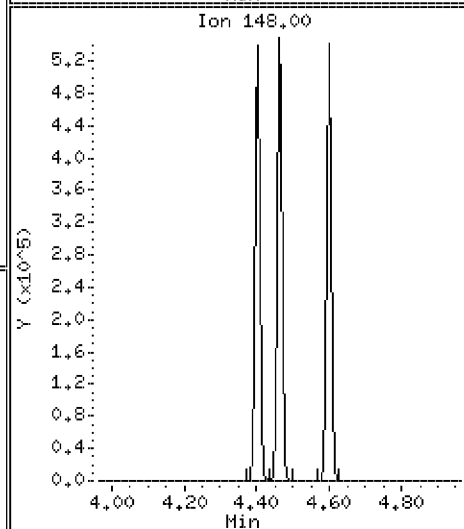
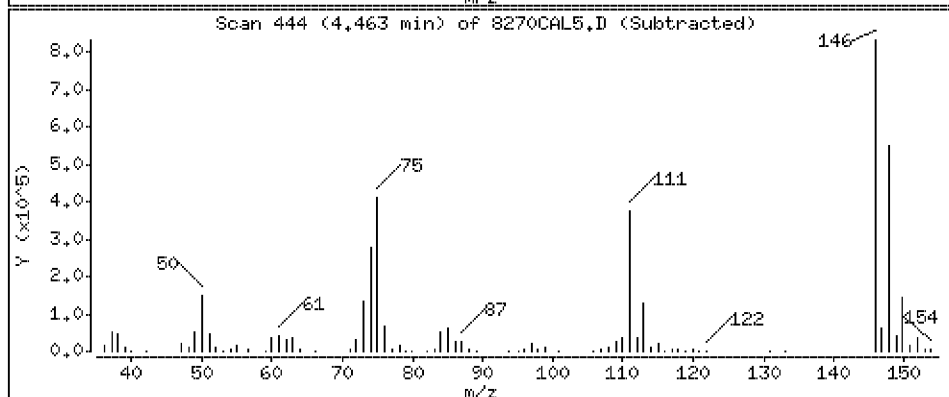
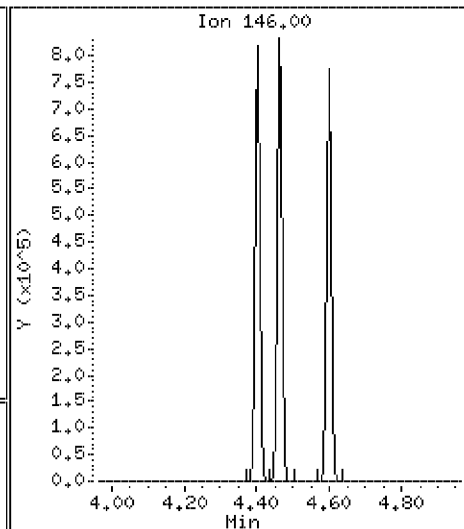
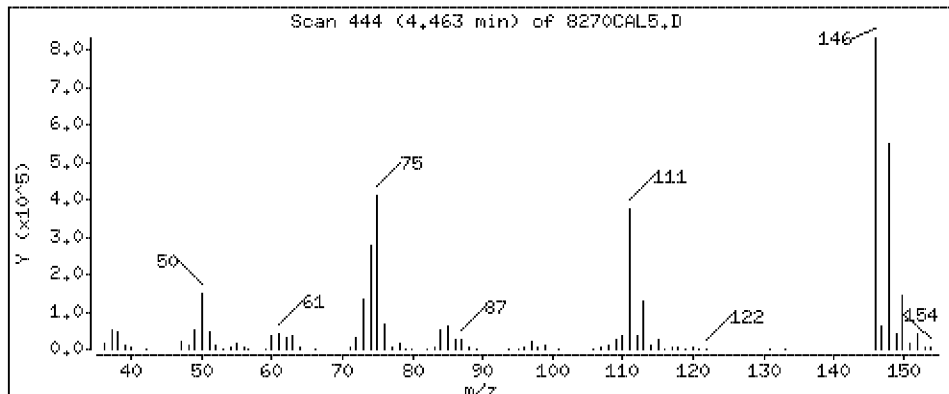
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

19 1,4-Dichlorobenzene

Concentration: 61.1 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

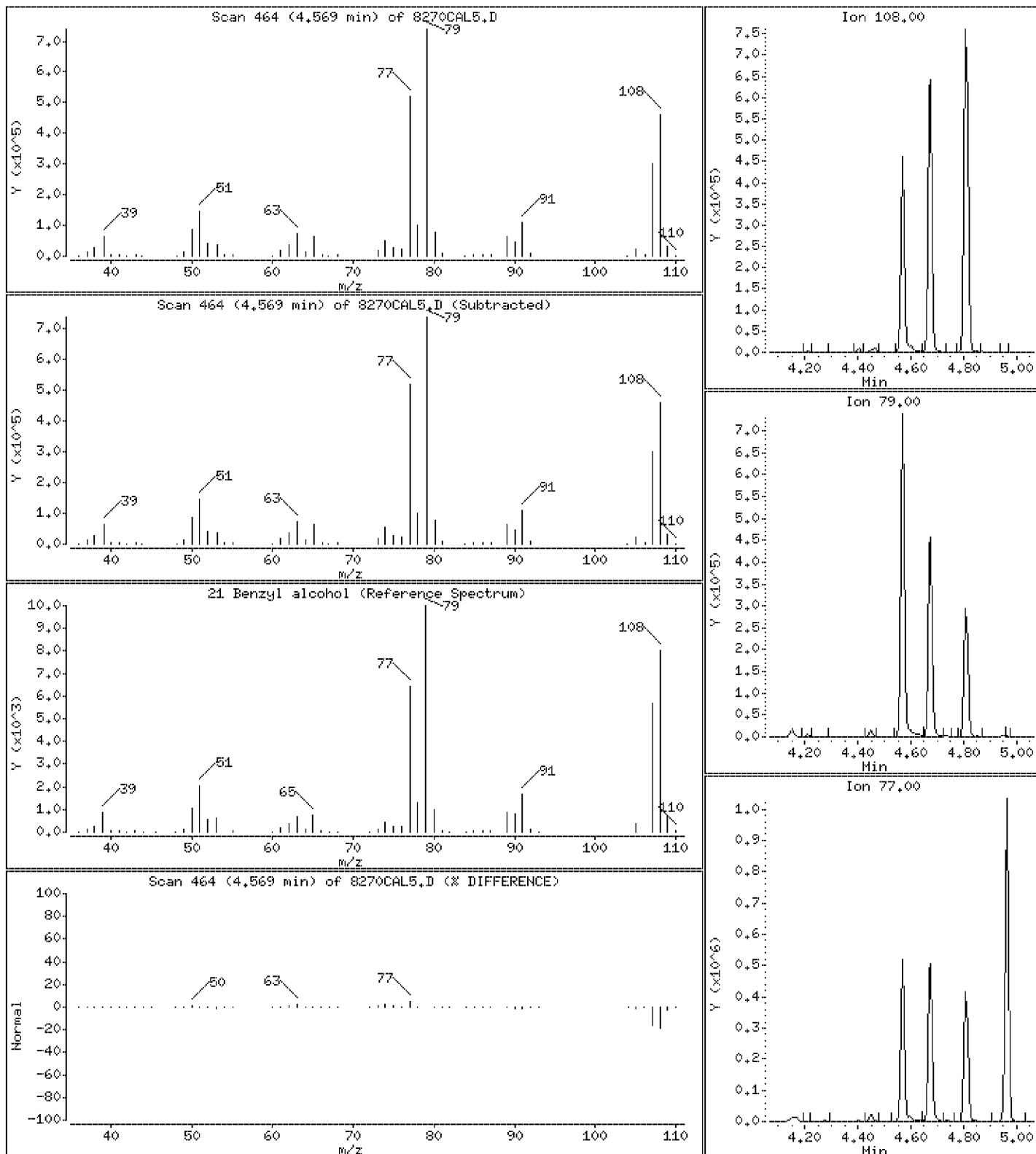
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

21 Benzyl alcohol

Concentration: 64.2 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

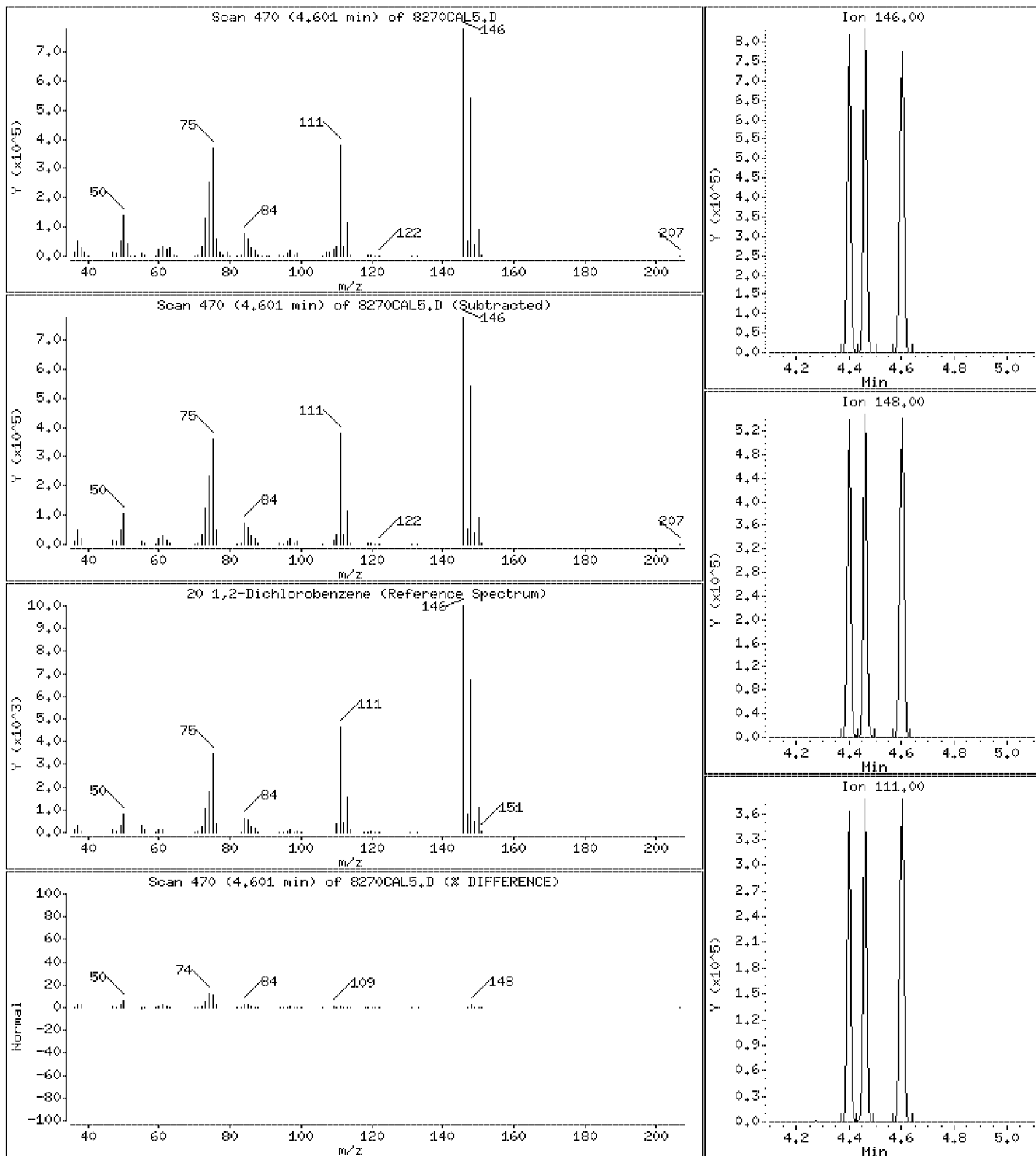
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

20 1,2-Dichlorobenzene

Concentration: 60.8 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

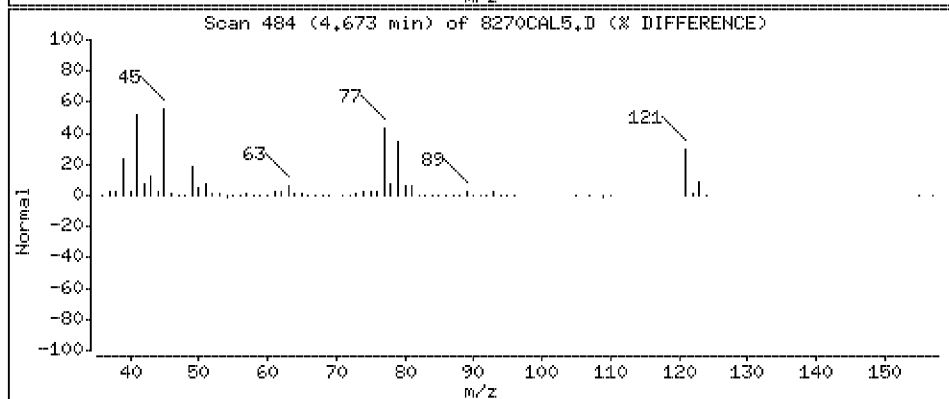
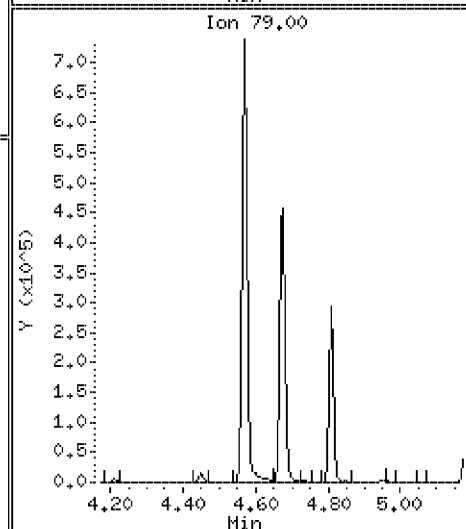
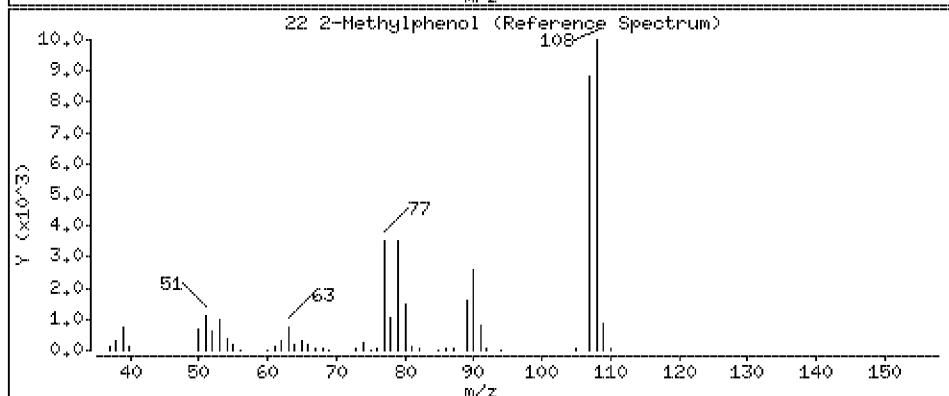
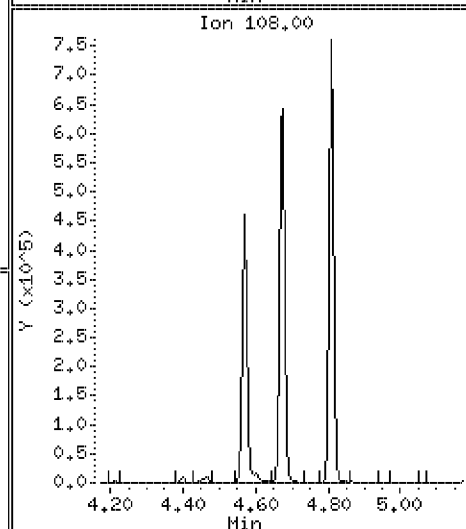
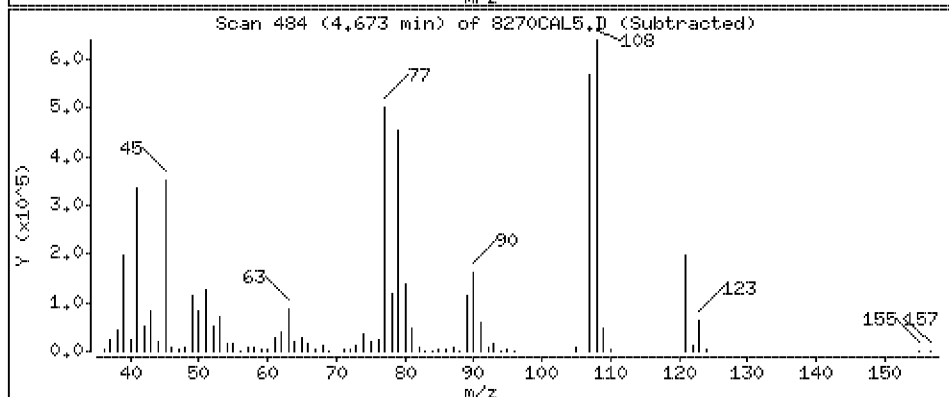
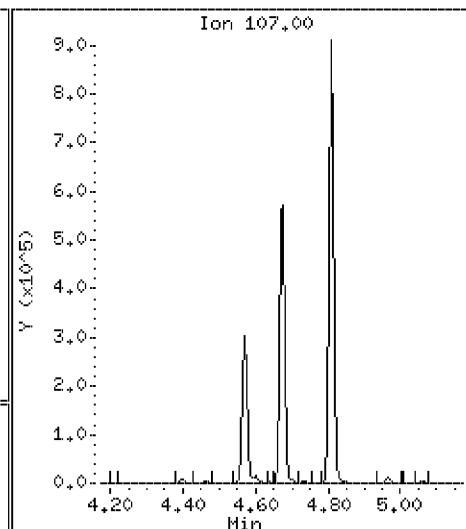
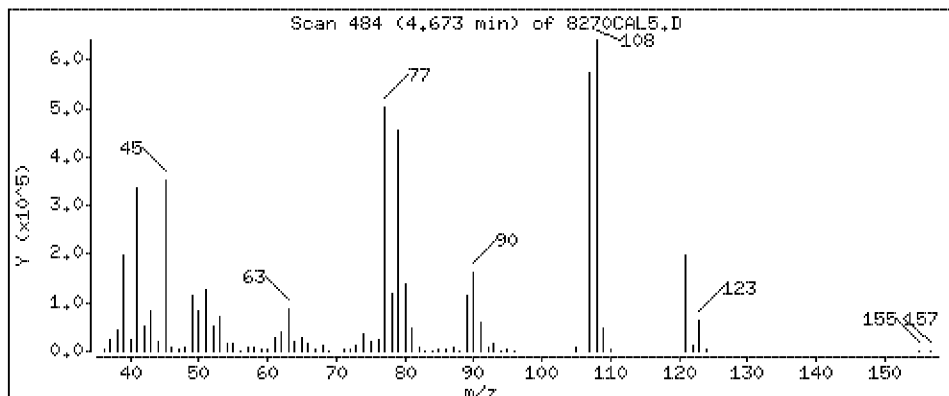
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

22 2-Methylphenol

Concentration: 62.4 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

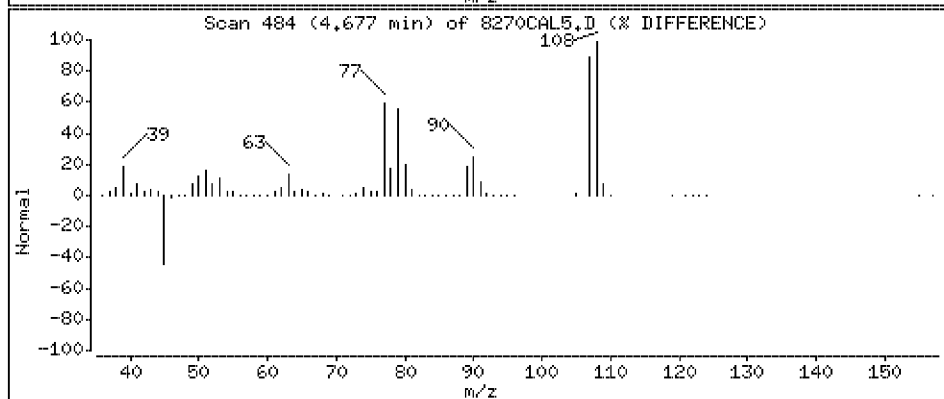
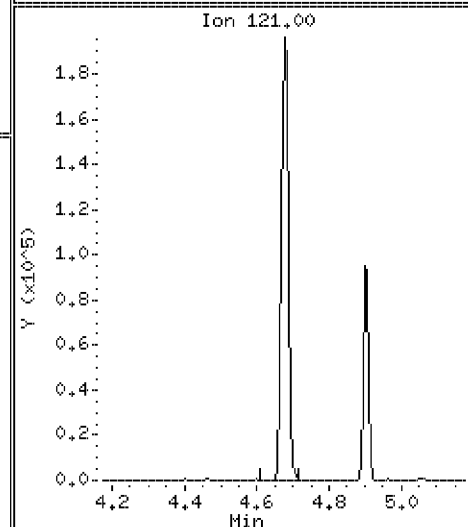
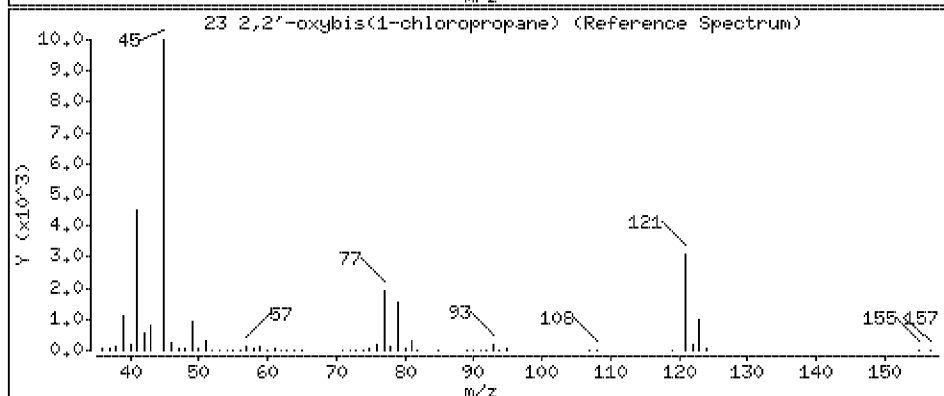
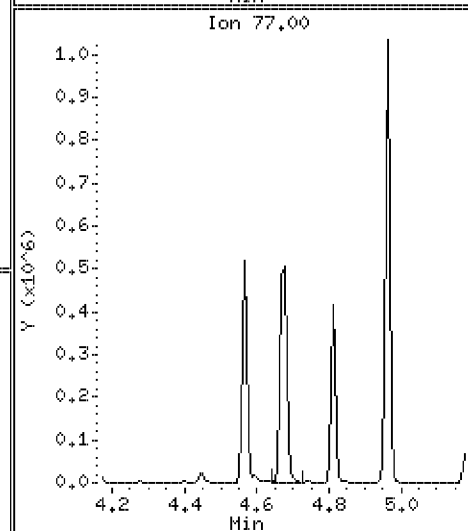
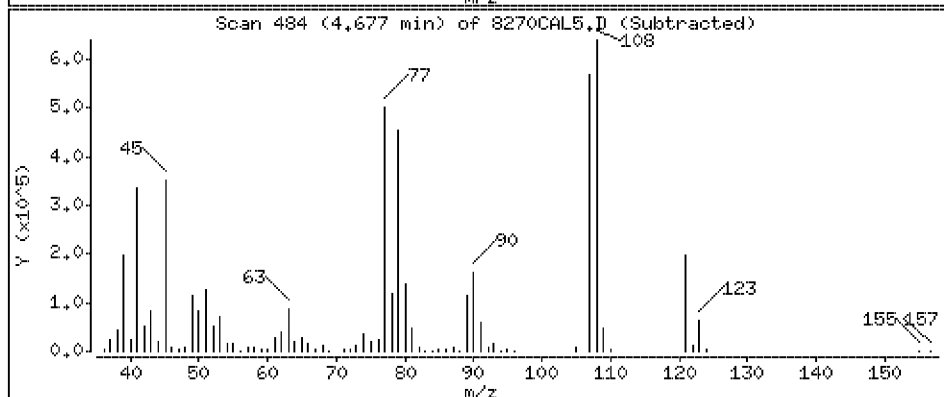
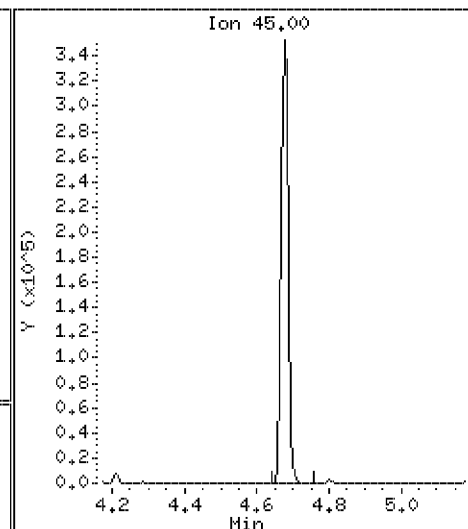
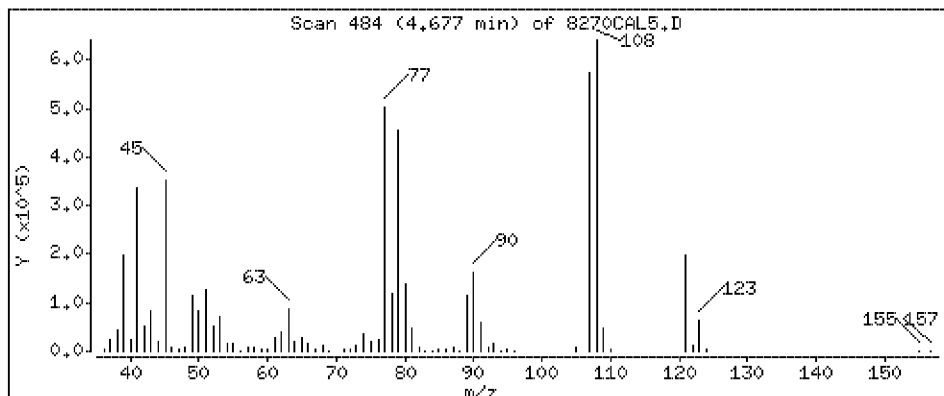
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

23 2,2'-oxybis(1-chloropropane)

Concentration: 60.4 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

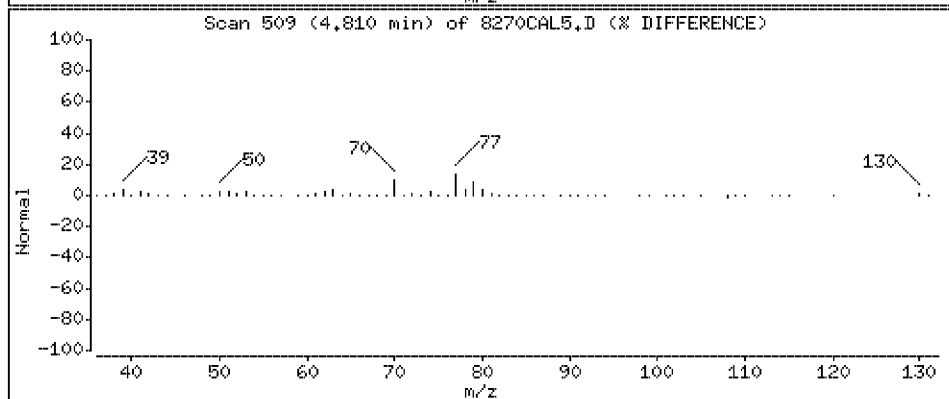
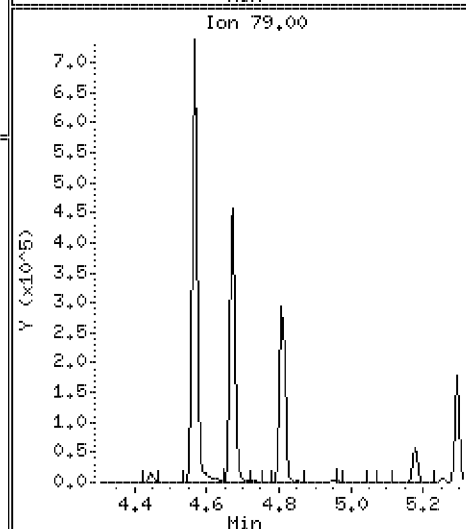
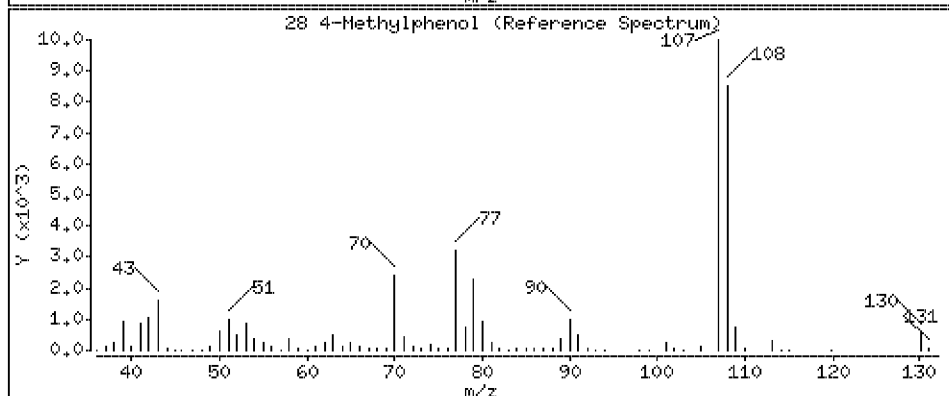
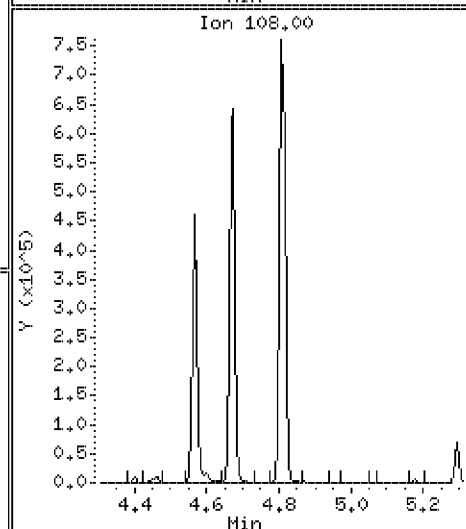
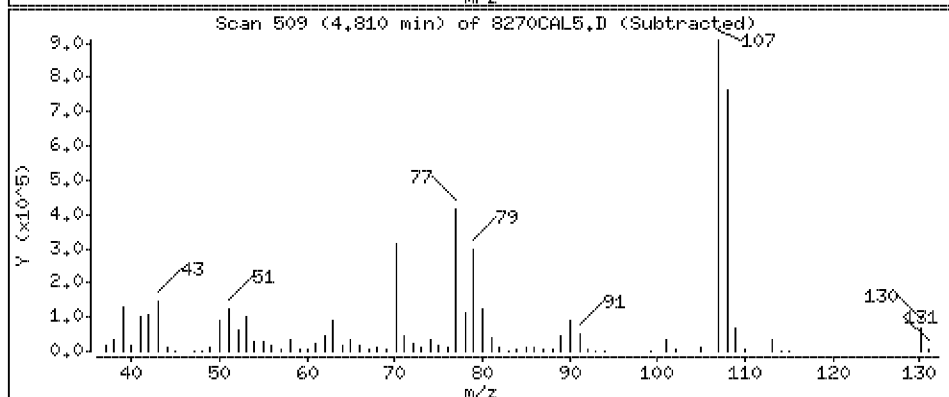
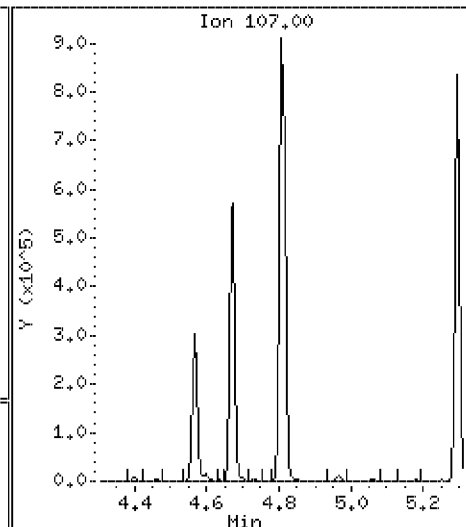
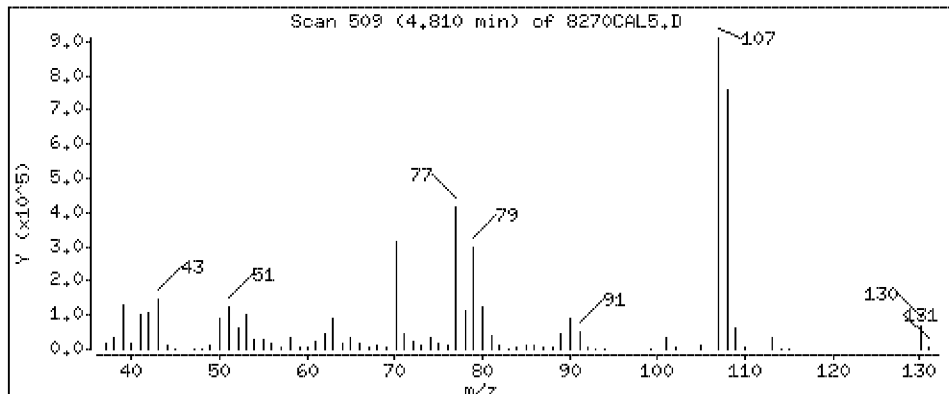
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

28 4-Methylphenol

Concentration: 62.2 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

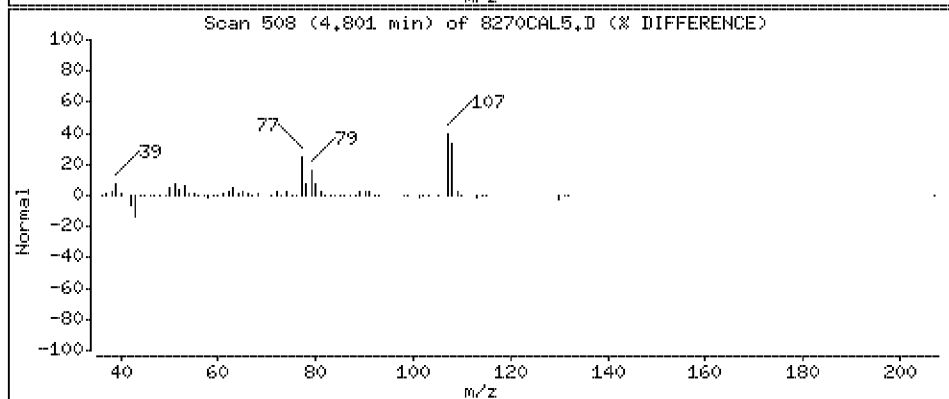
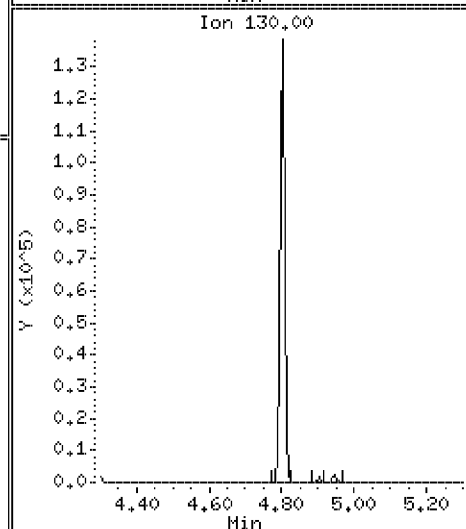
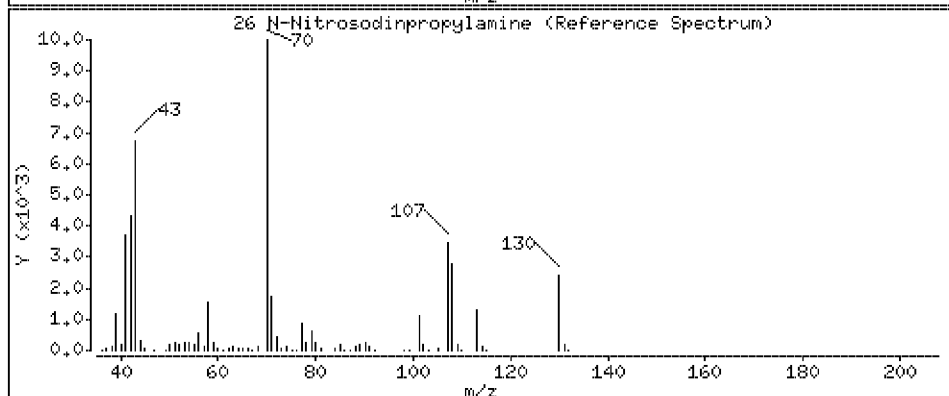
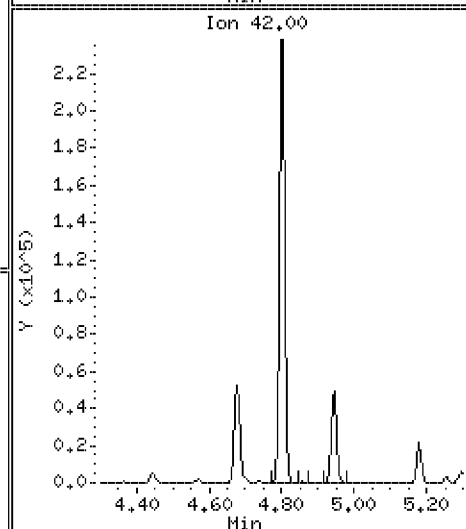
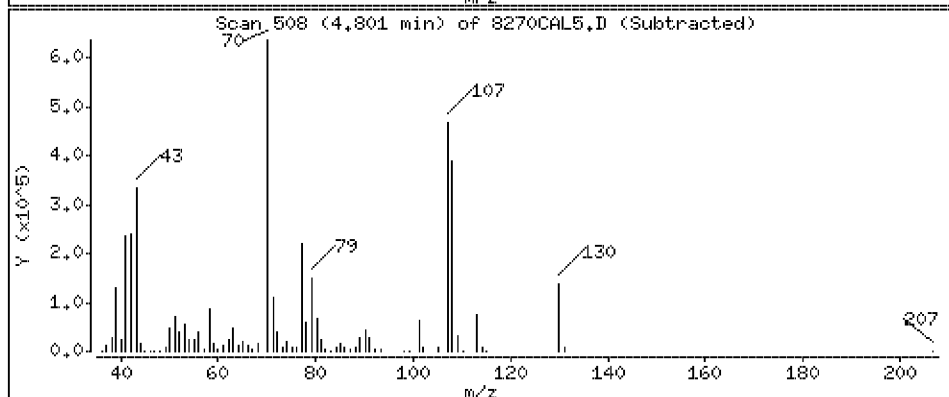
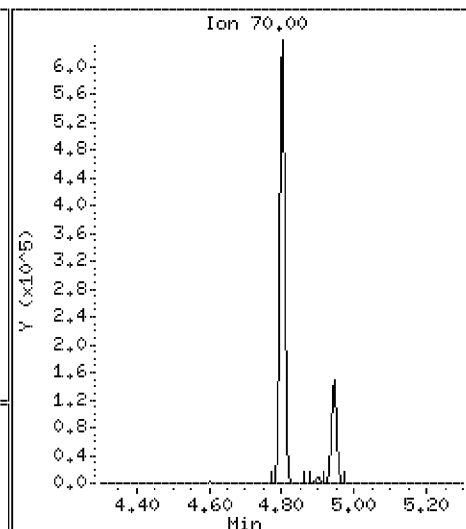
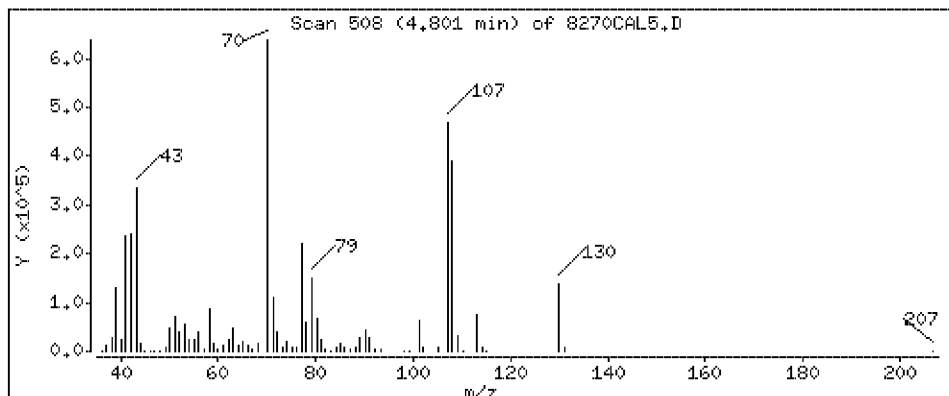
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

26 N-Nitrosodipropylamine

Concentration: 61.8 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

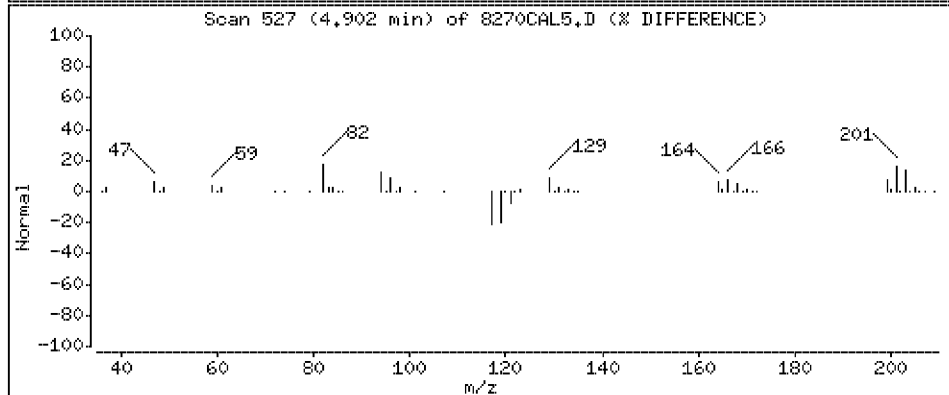
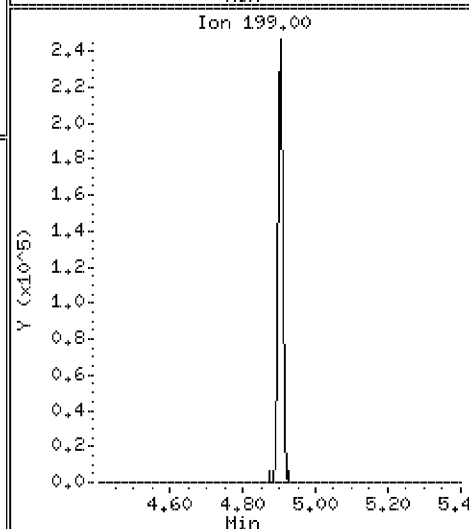
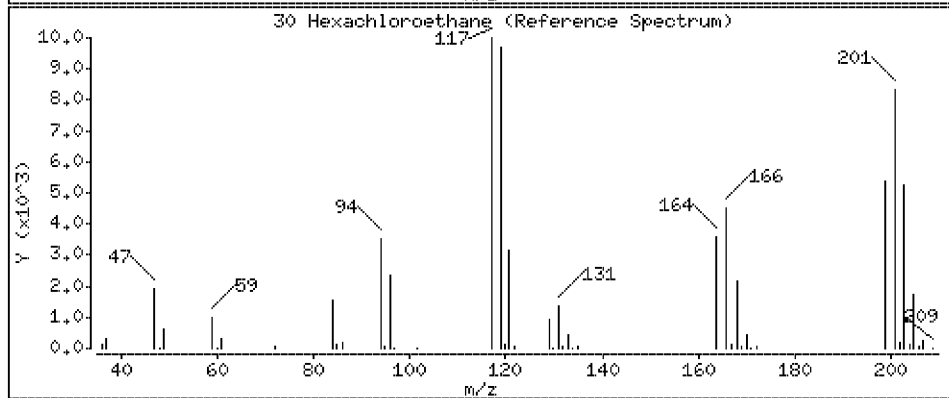
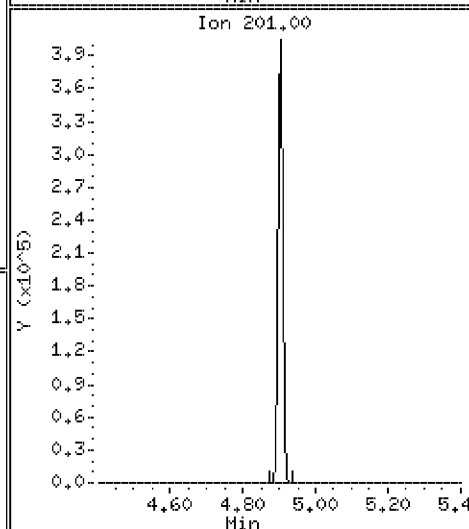
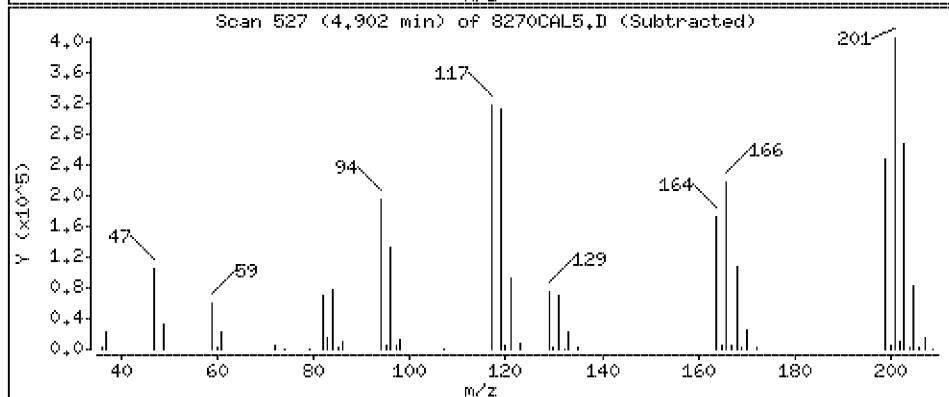
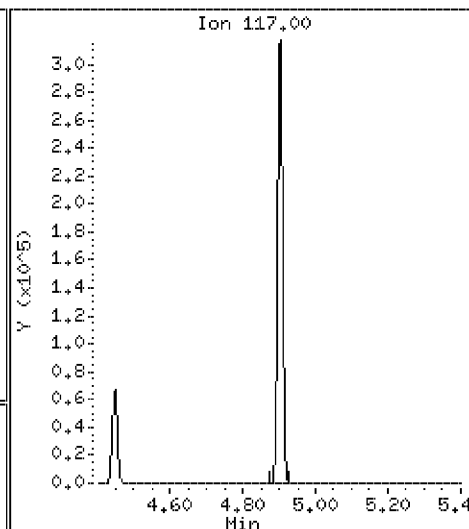
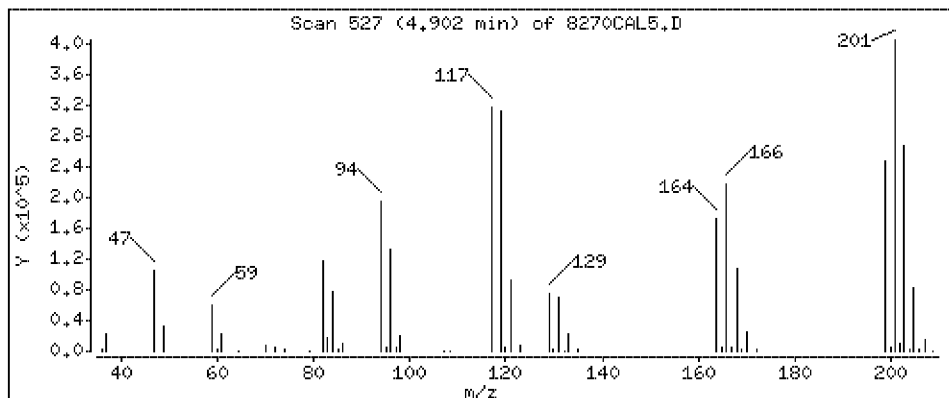
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

30 Hexachloroethane

Concentration: 60.8 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

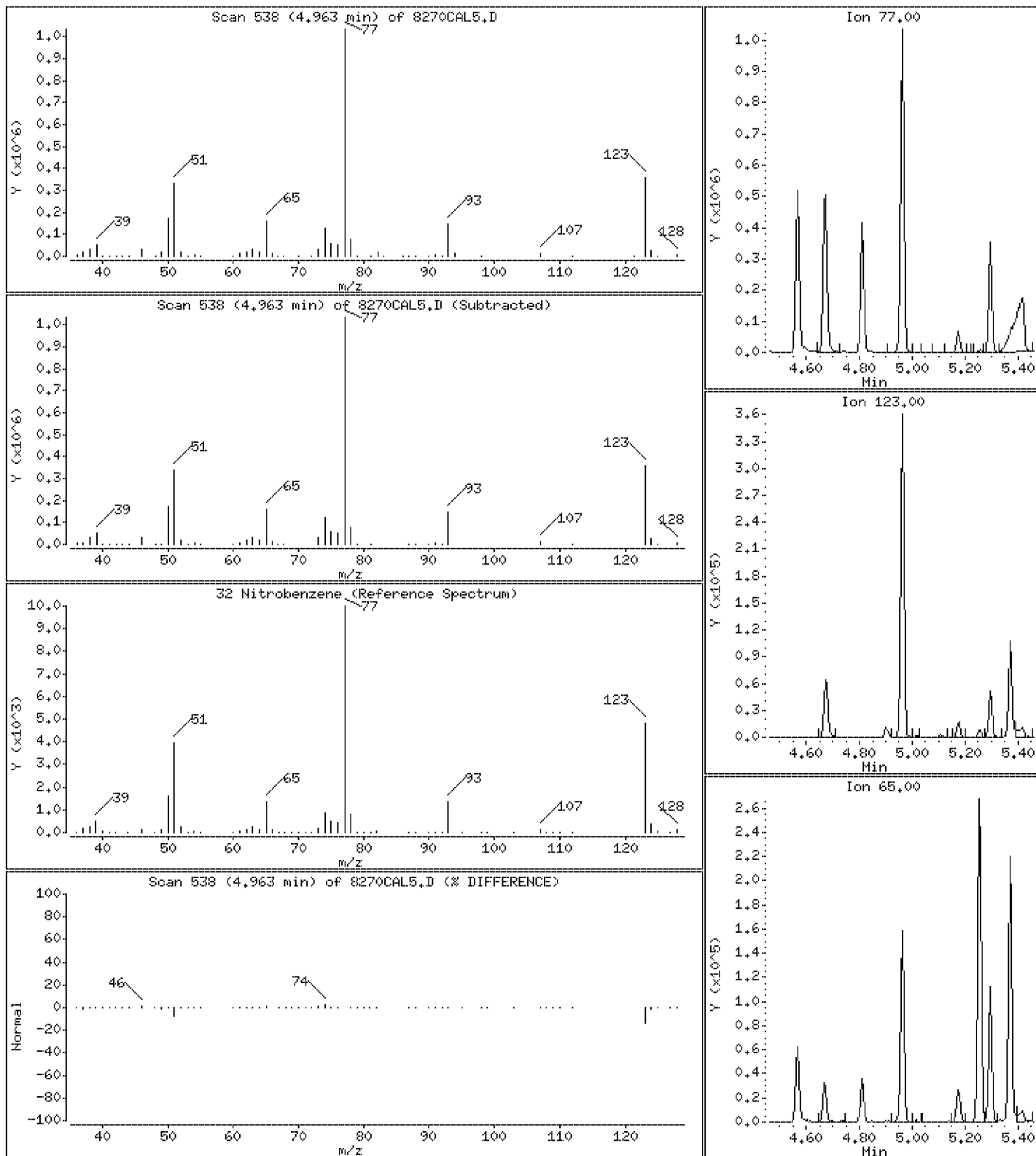
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

32 Nitrobenzene

Concentration: 59.4 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

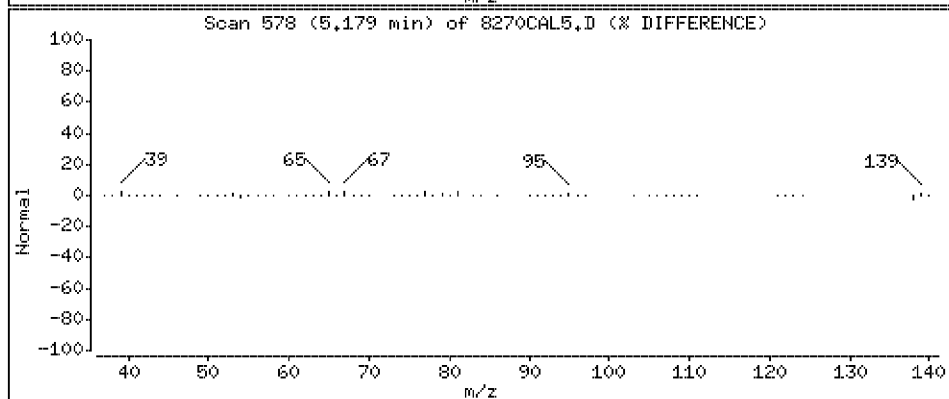
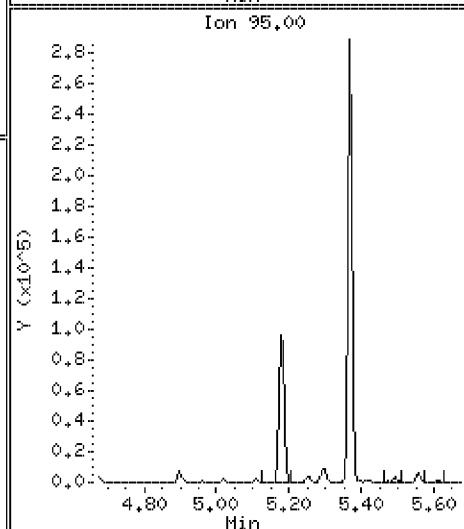
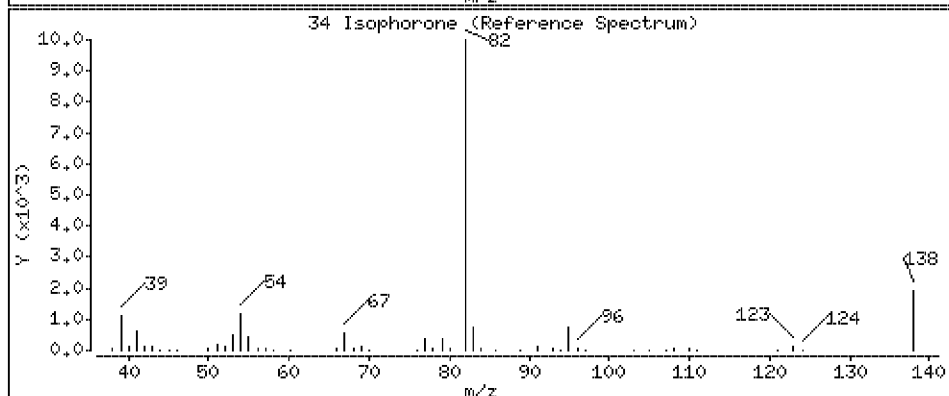
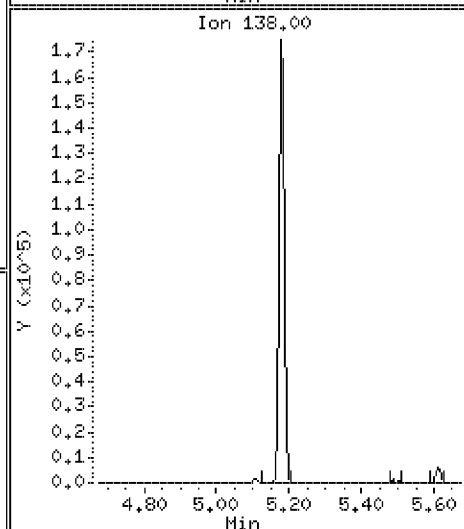
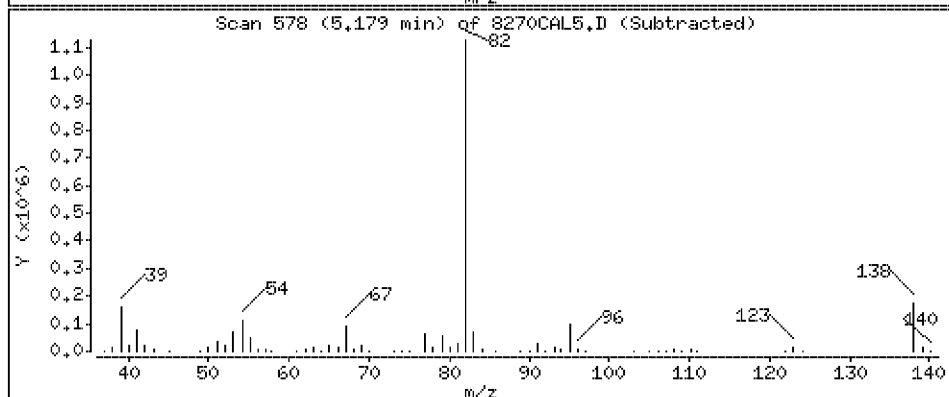
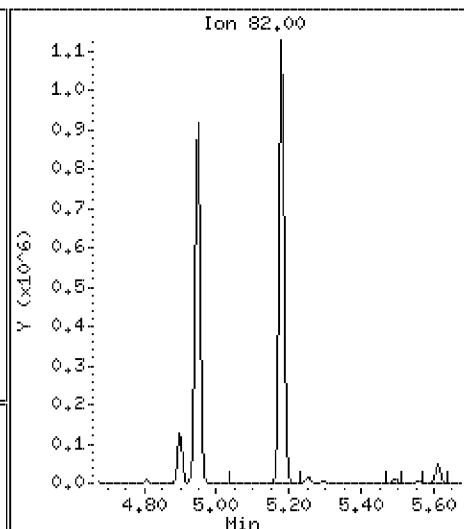
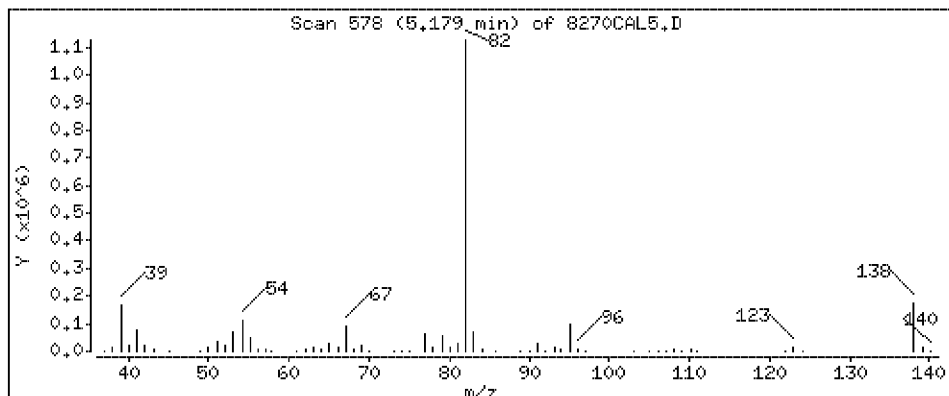
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

34 Isophorone

Concentration: 59.5 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

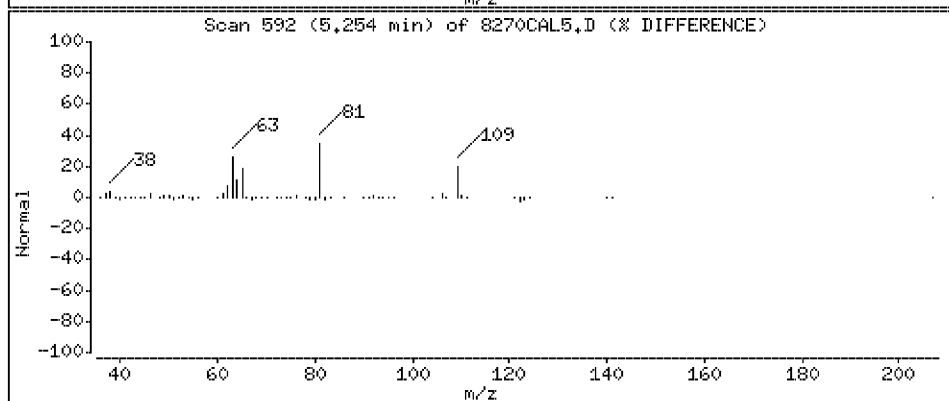
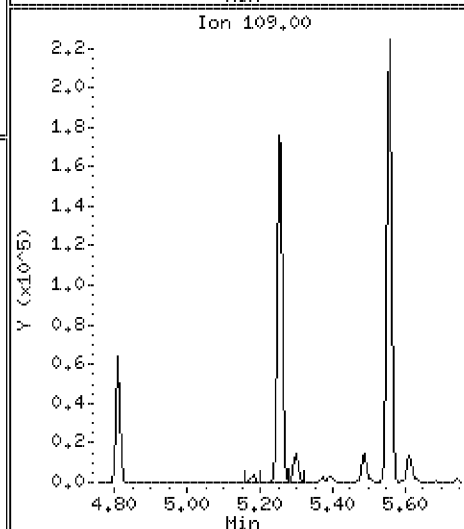
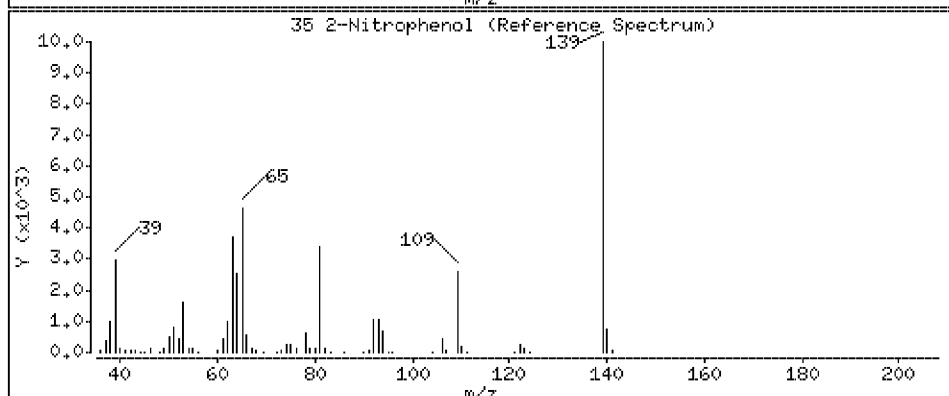
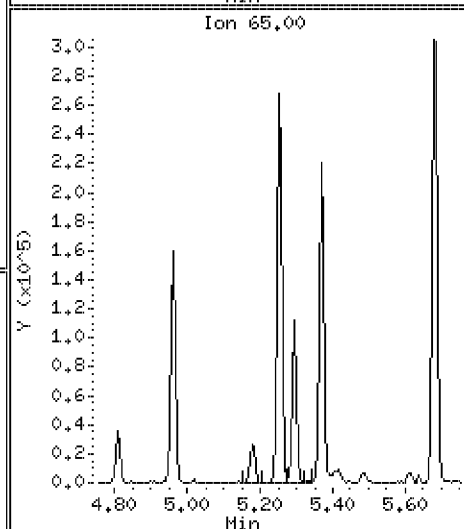
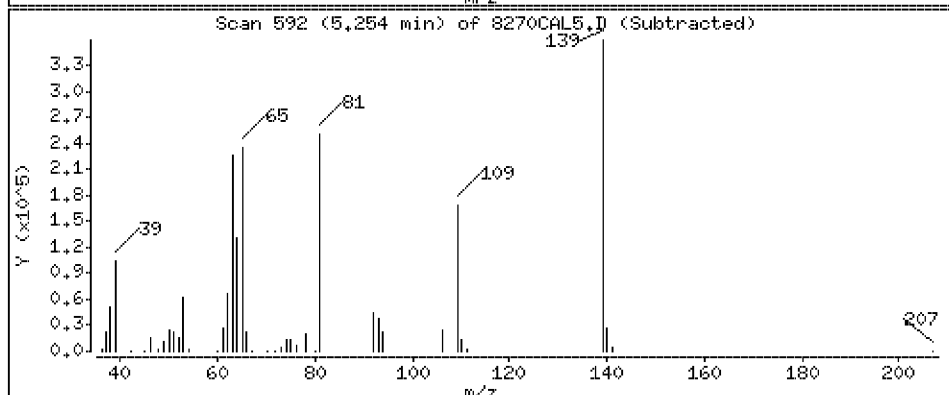
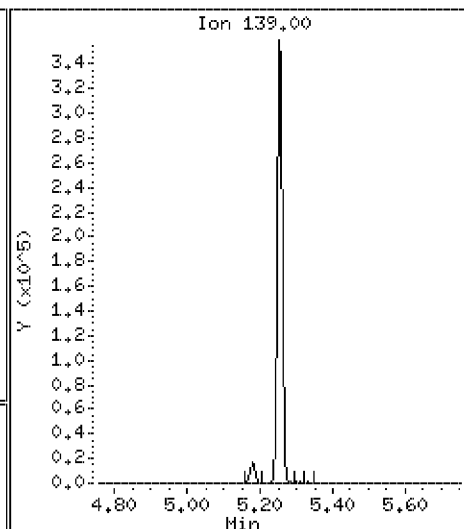
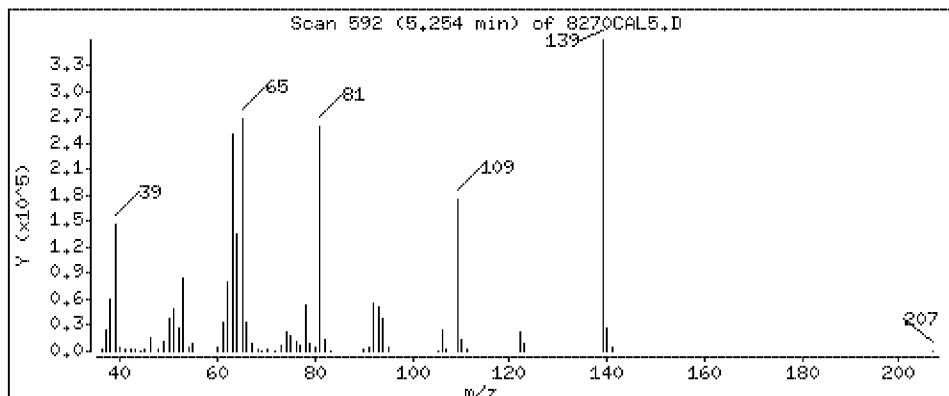
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

35 2-Nitrophenol

Concentration: 61.7 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

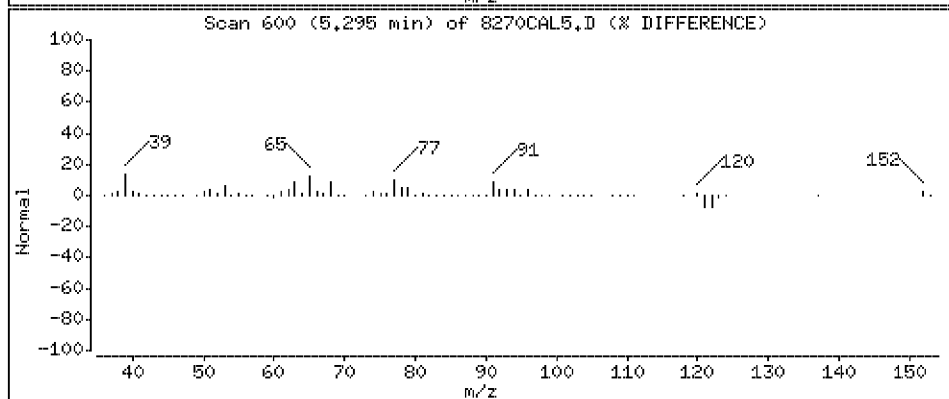
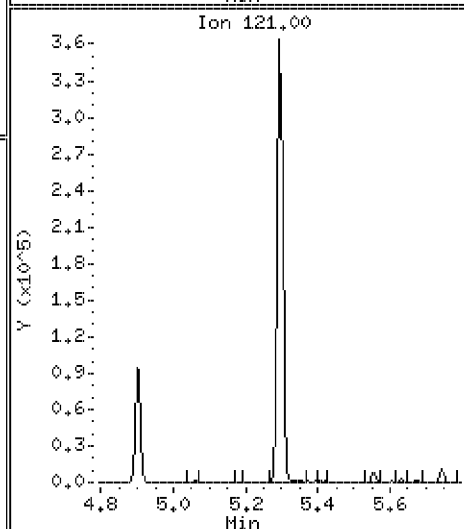
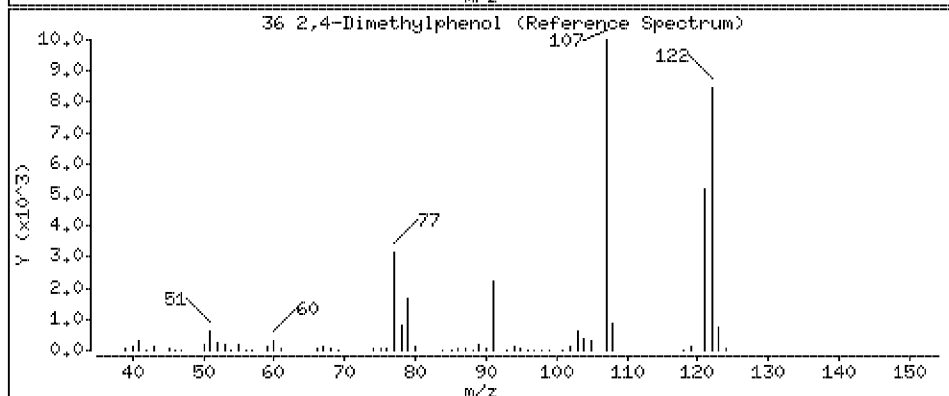
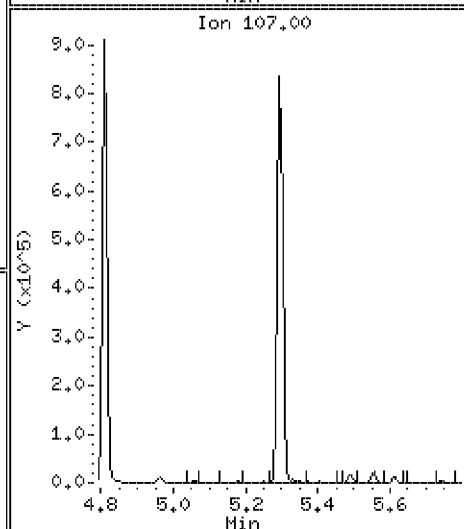
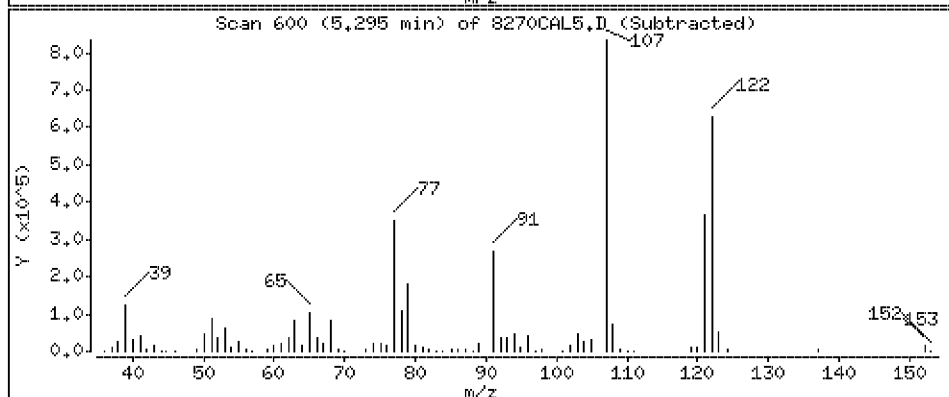
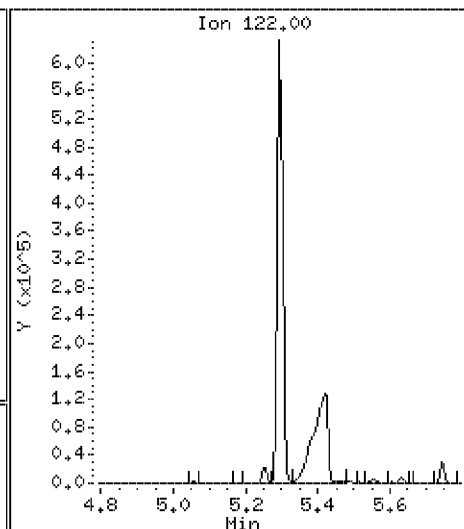
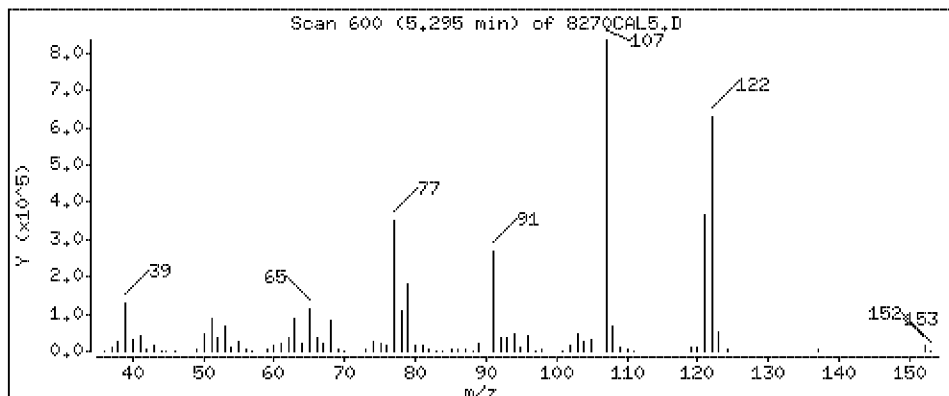
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

36 2,4-Dimethylphenol

Concentration: 60.0 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

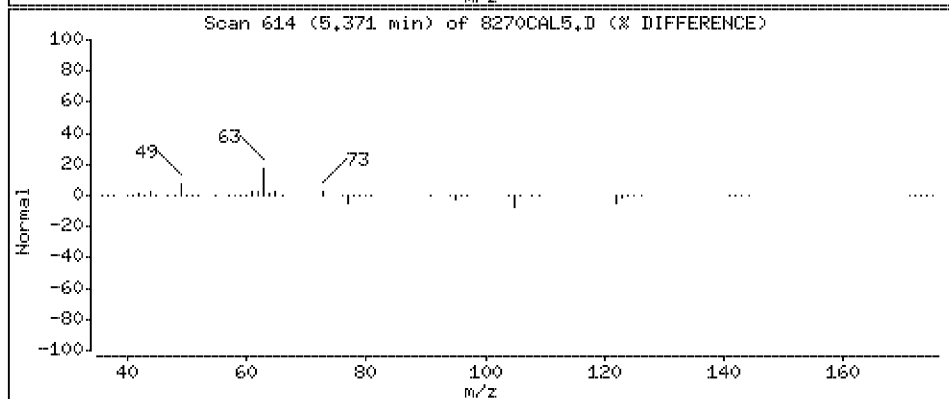
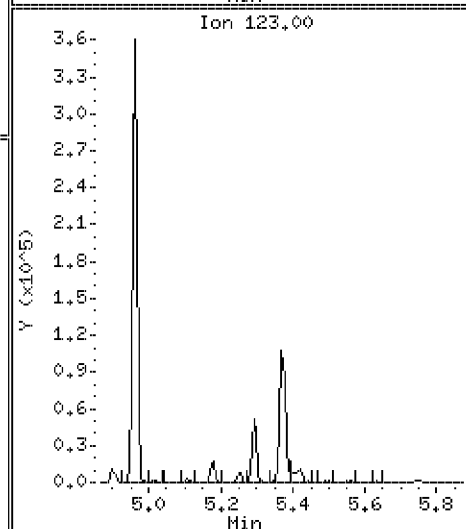
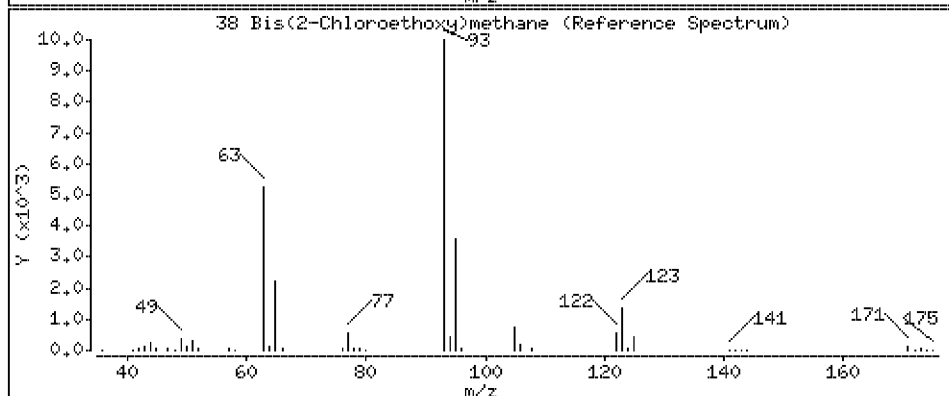
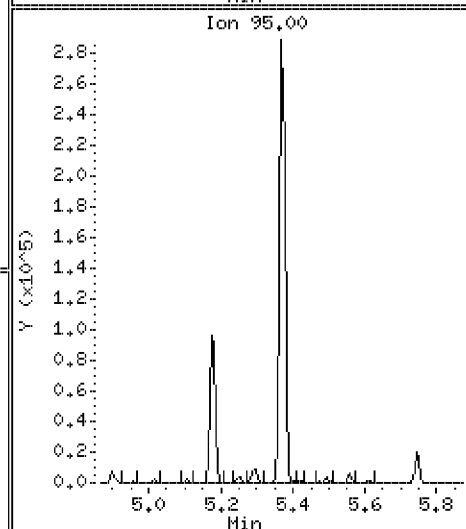
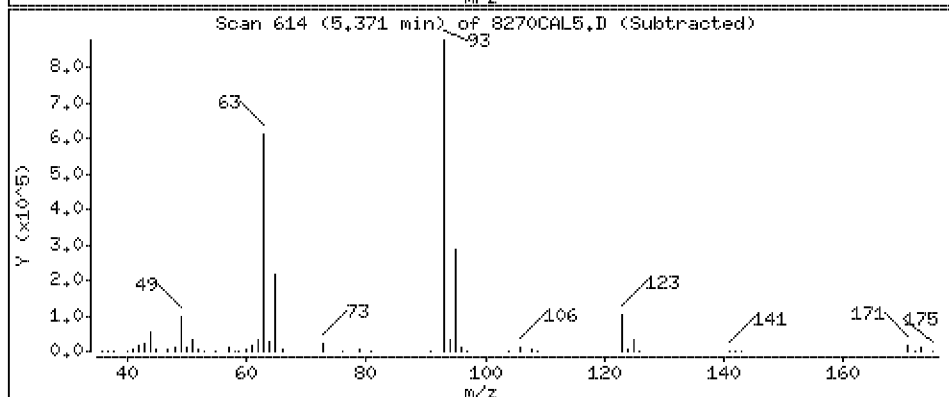
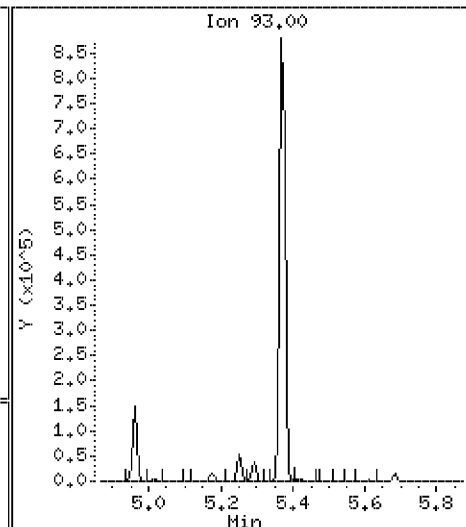
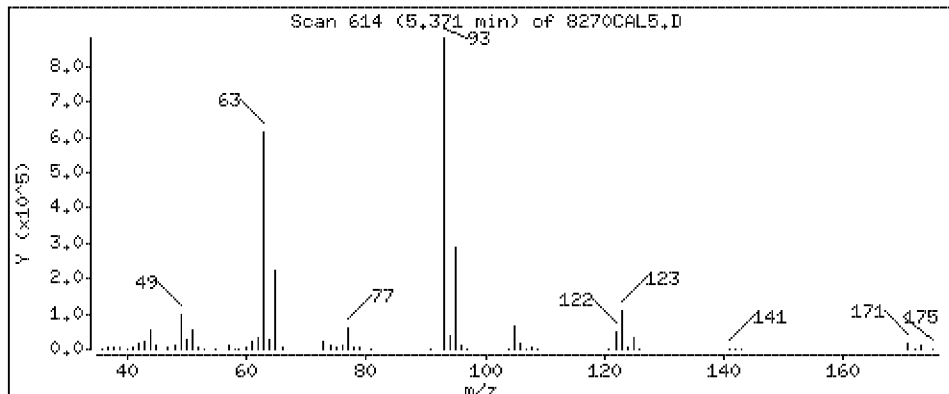
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

38 Bis(2-Chloroethoxy)methane

Concentration: 60.0 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

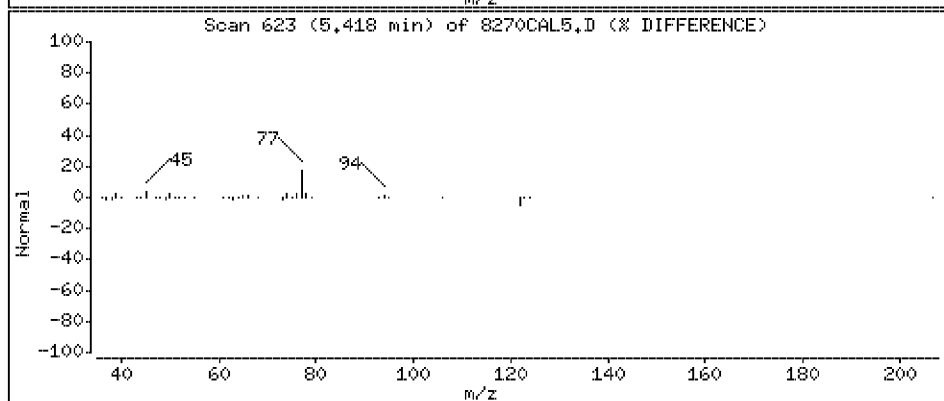
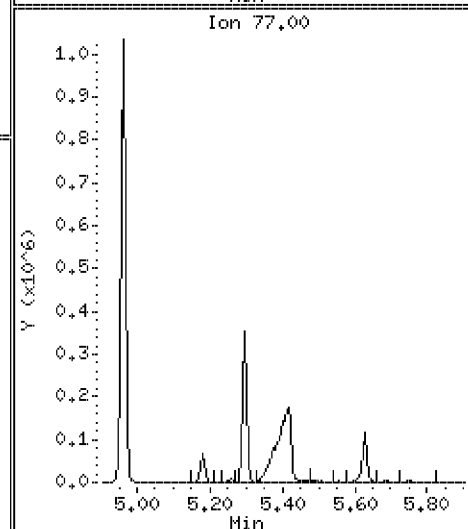
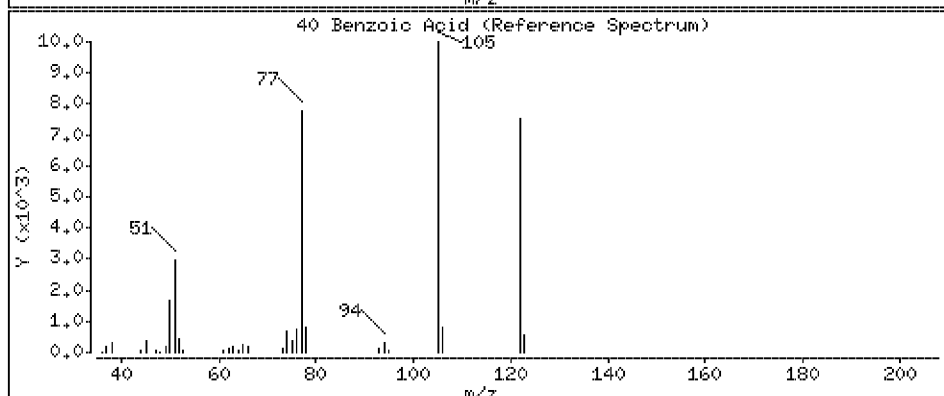
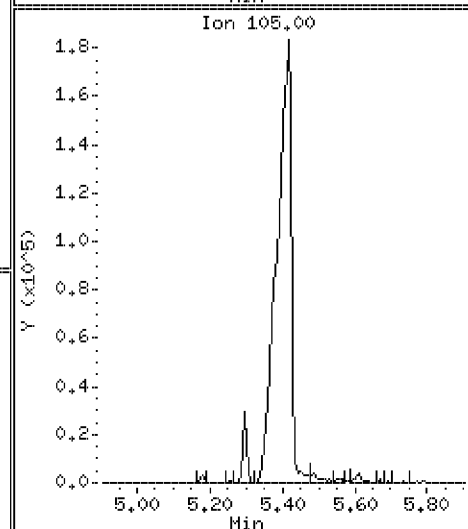
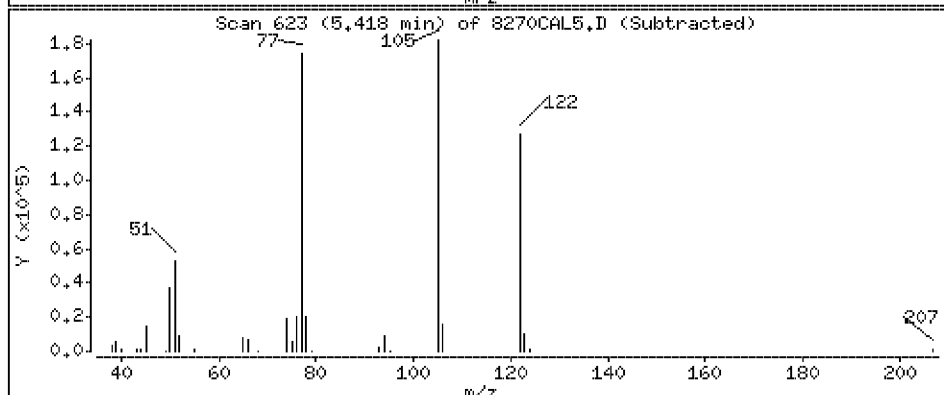
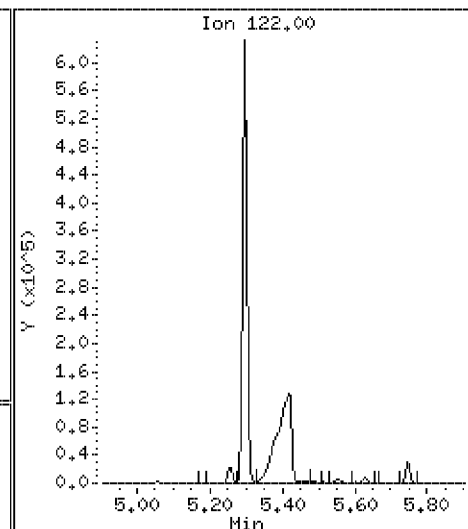
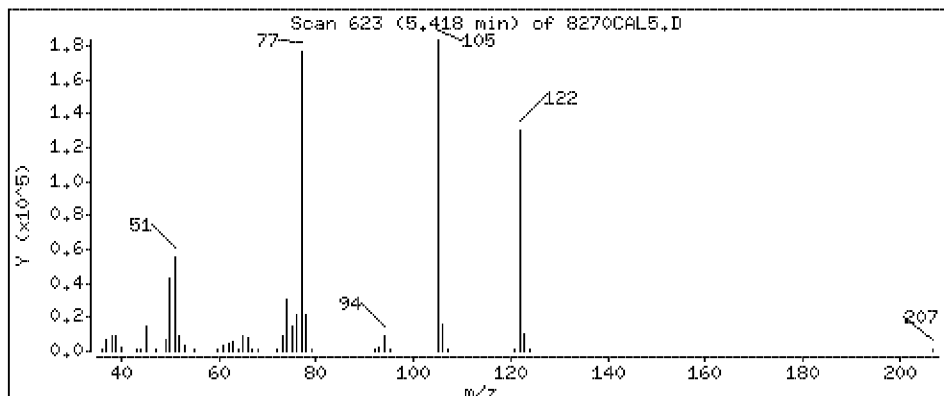
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

40 Benzoic Acid

Concentration: 60.4 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

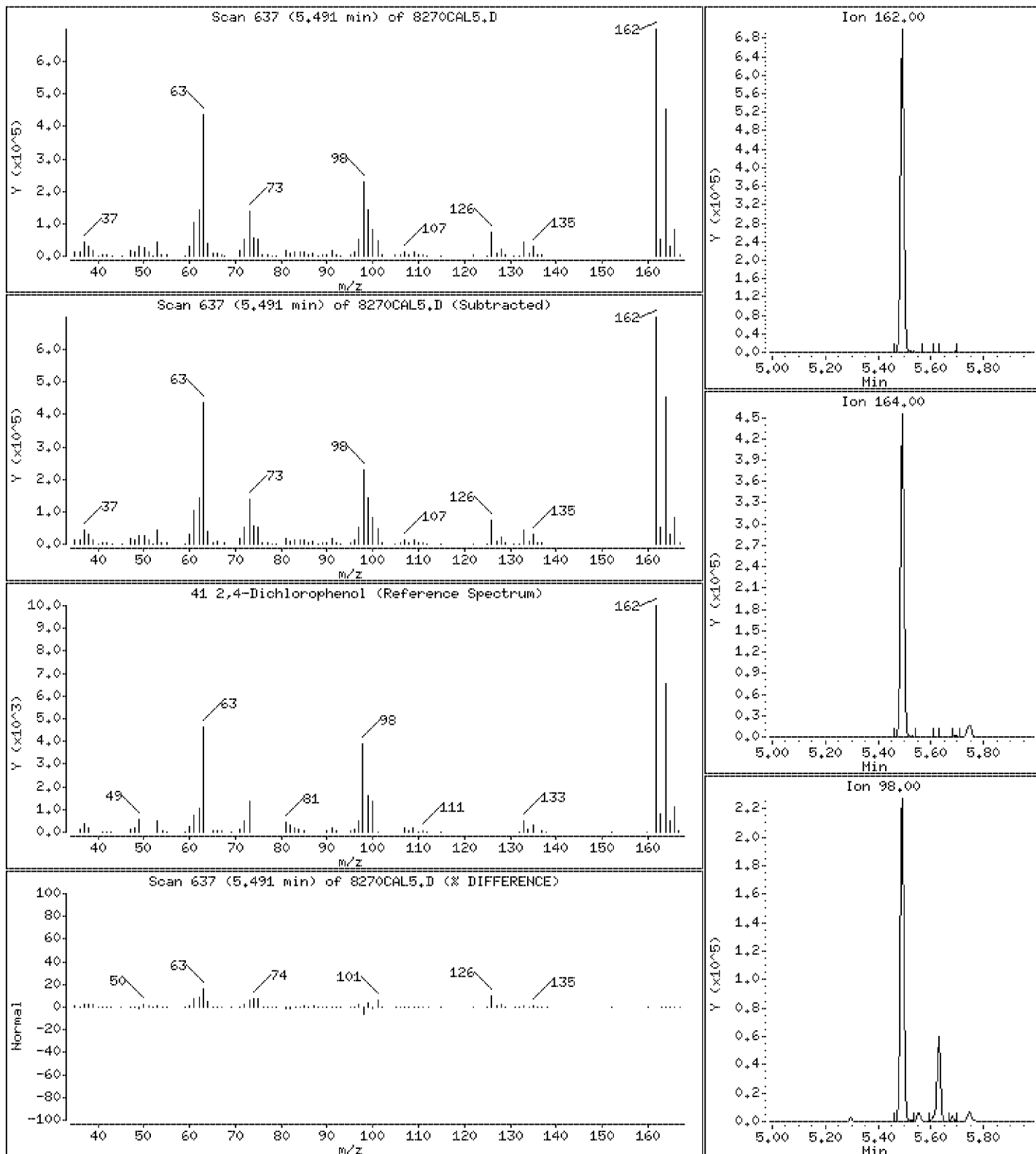
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

41 2,4-Dichlorophenol

Concentration: 62.6 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

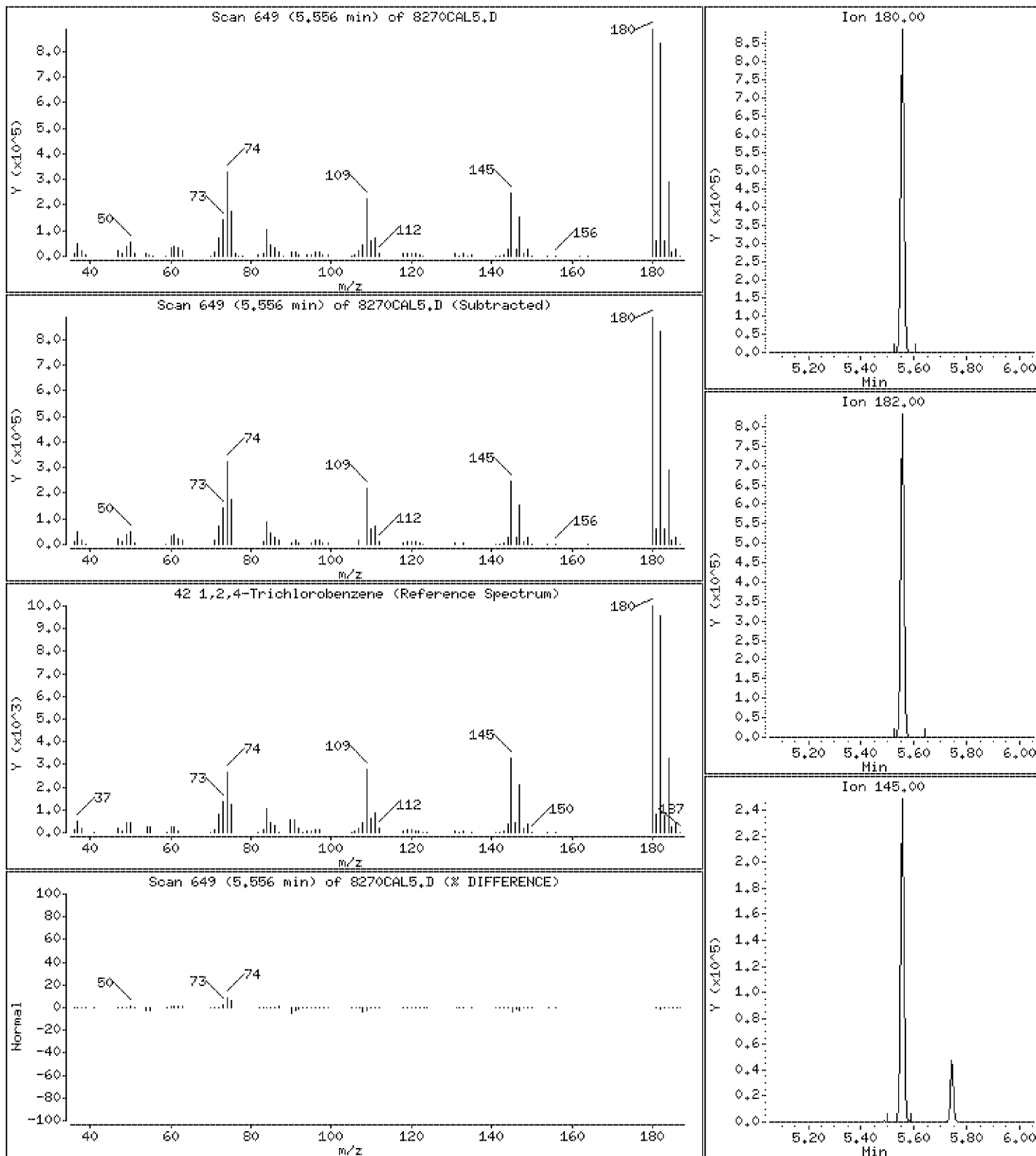
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

42 1,2,4-Trichlorobenzene

Concentration: 60.8 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

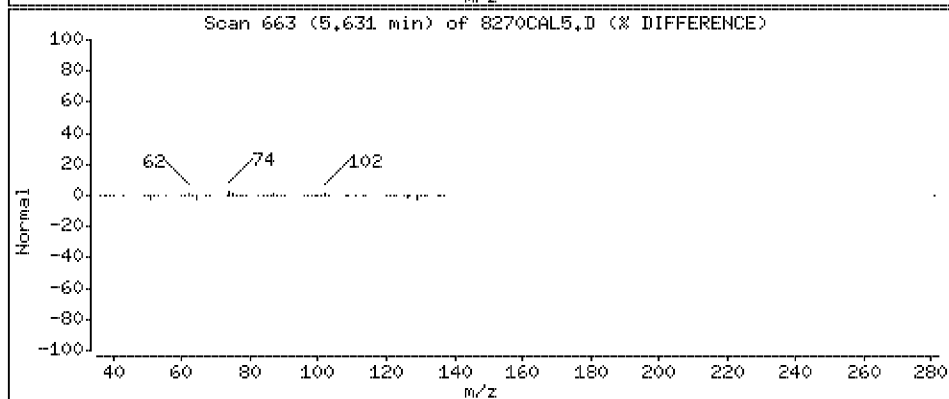
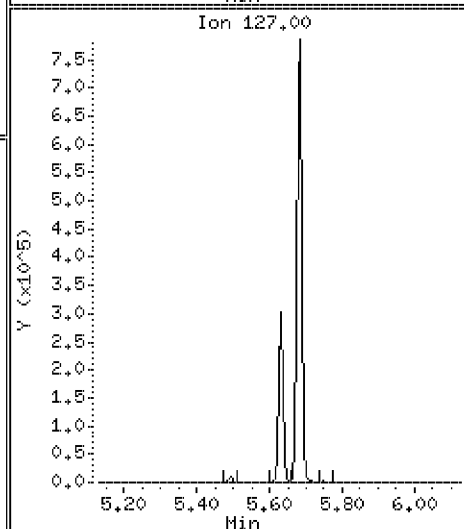
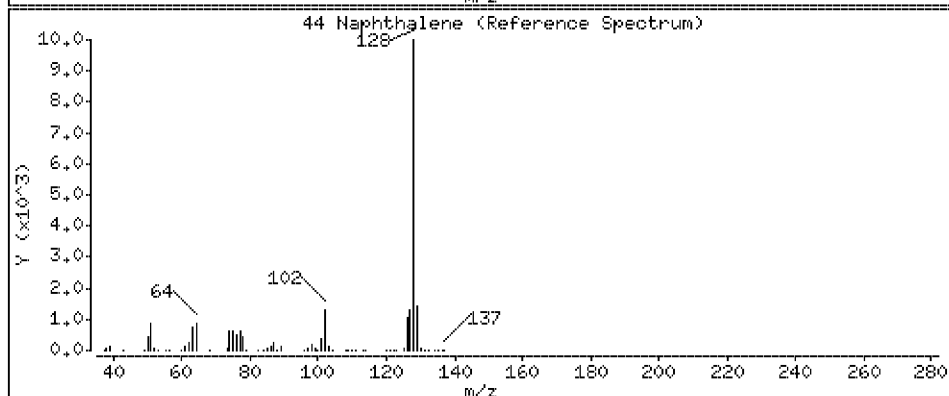
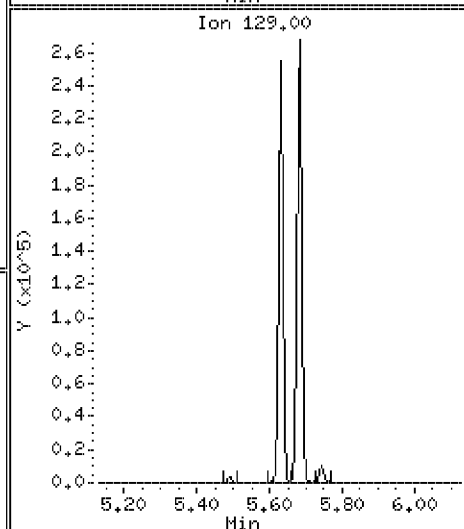
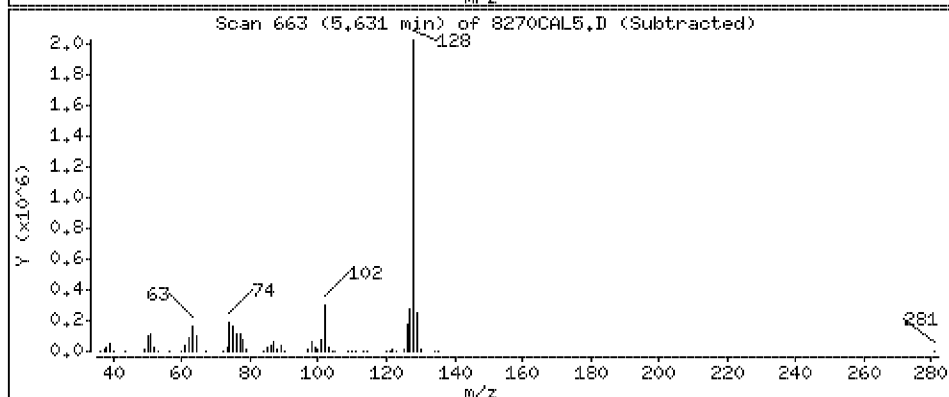
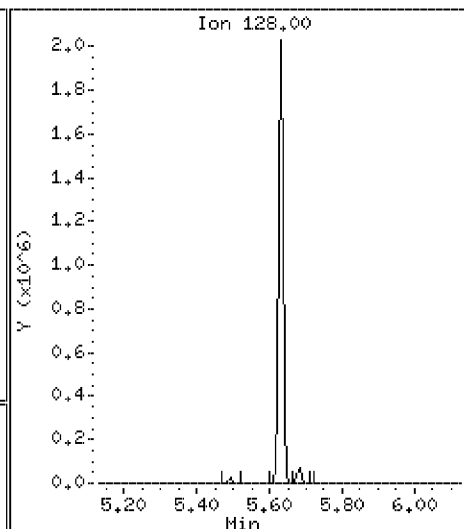
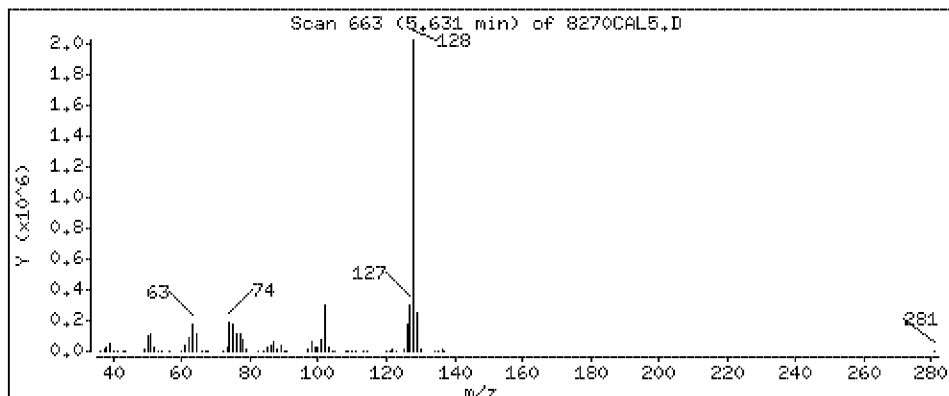
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

44 Naphthalene

Concentration: 60.2 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

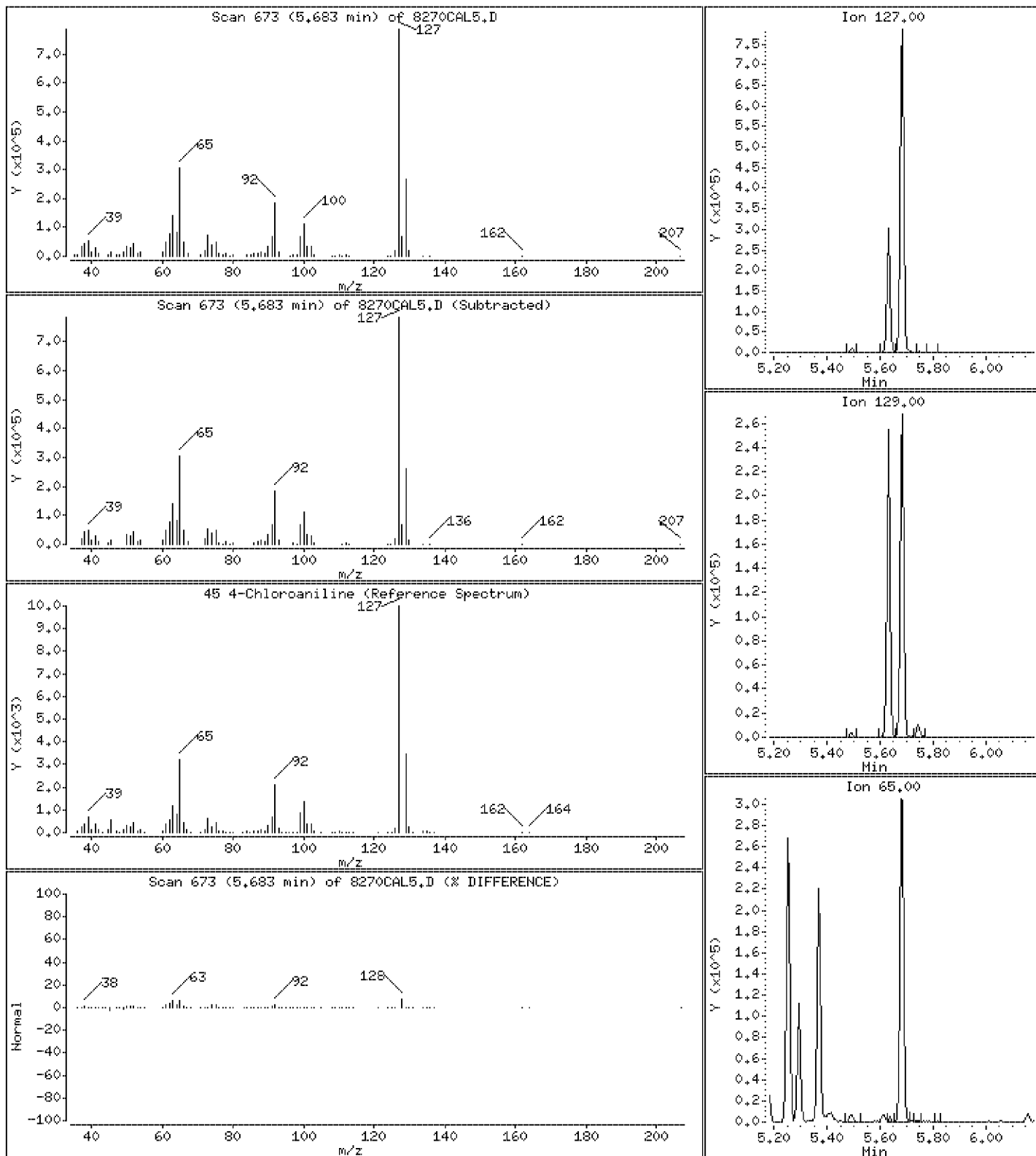
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

45 4-Chloroaniline

Concentration: 60.6 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

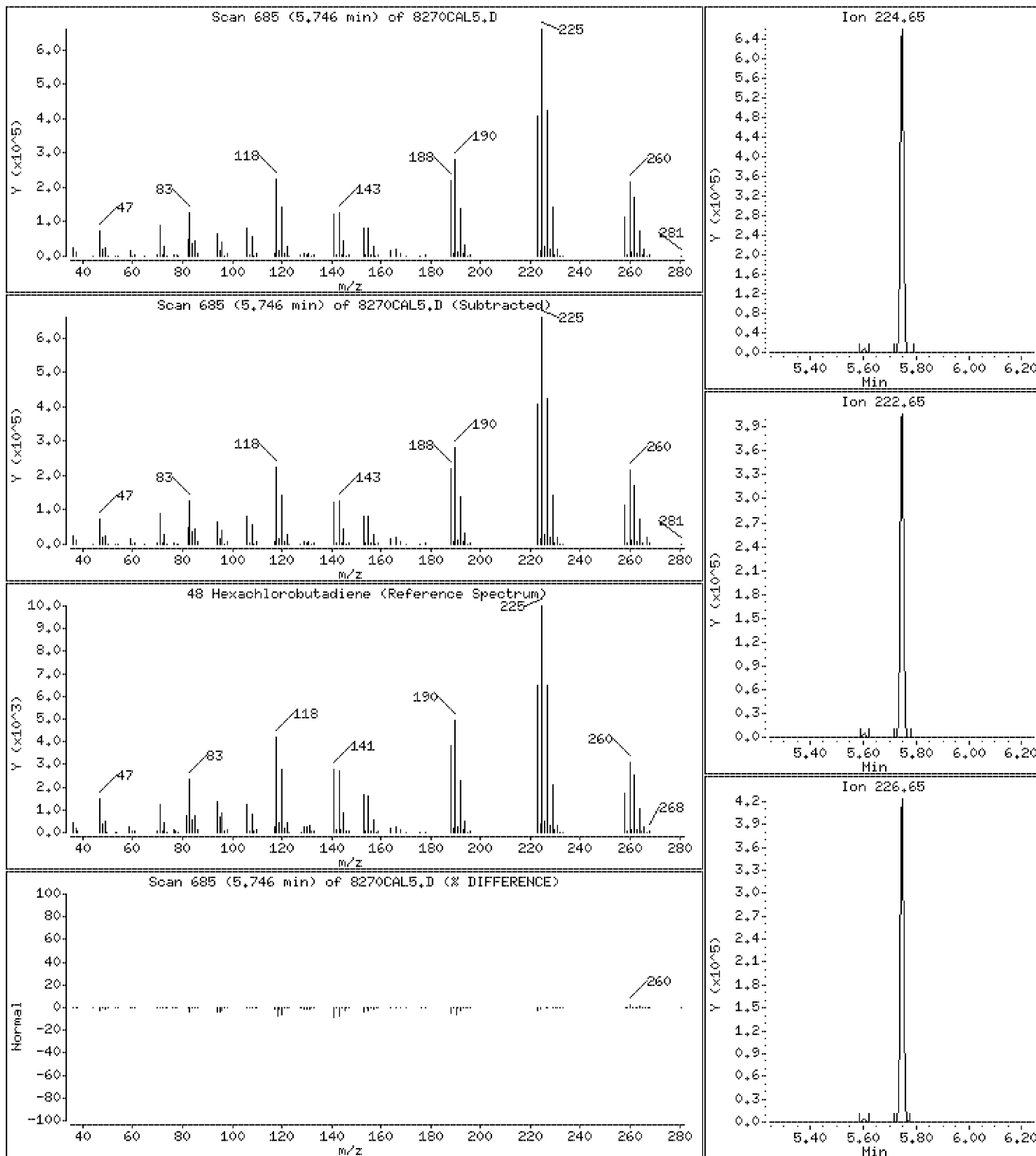
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

48 Hexachlorobutadiene

Concentration: 61.2 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

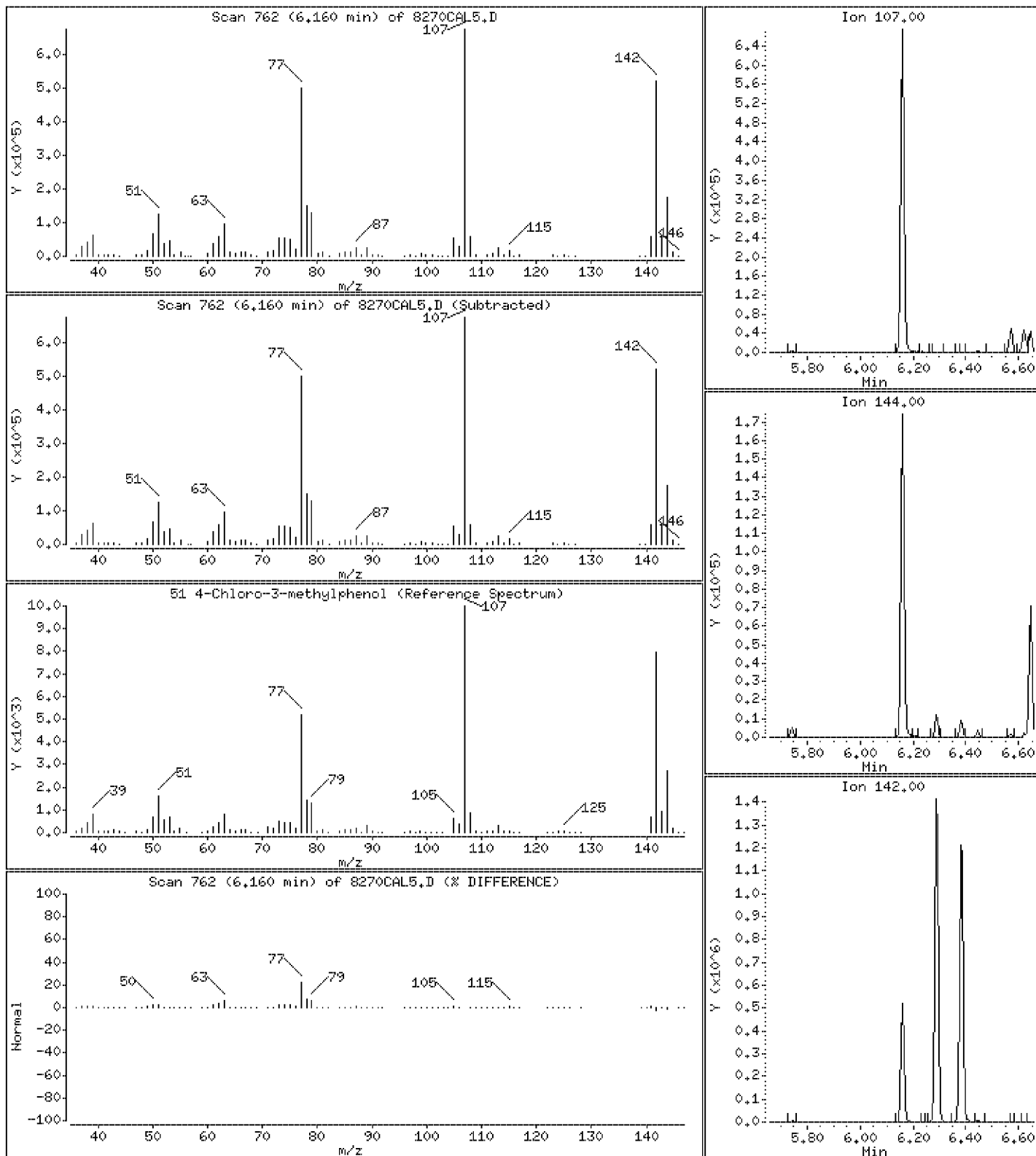
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

51 4-Chloro-3-methylphenol

Concentration: 60.9 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

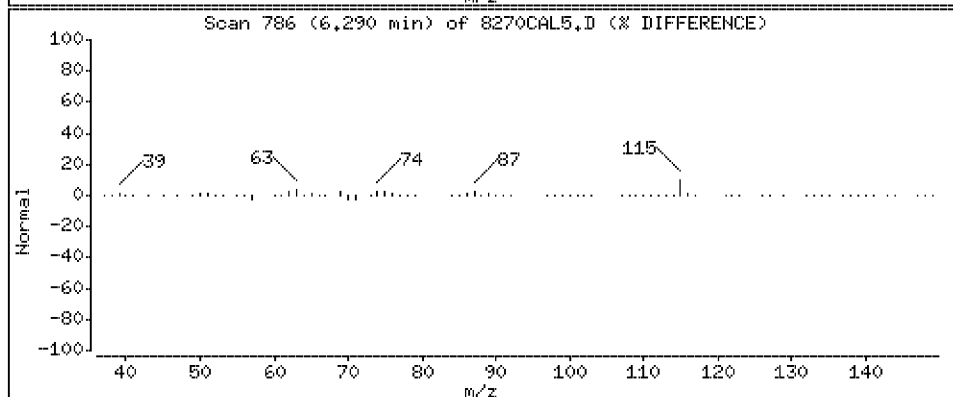
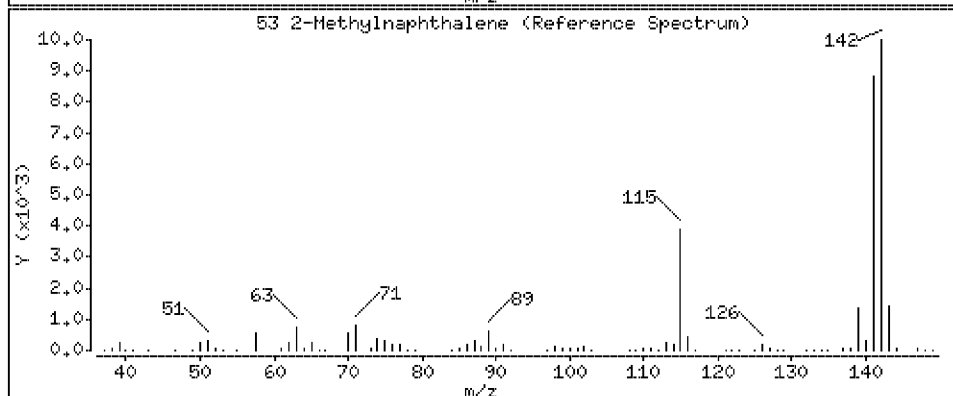
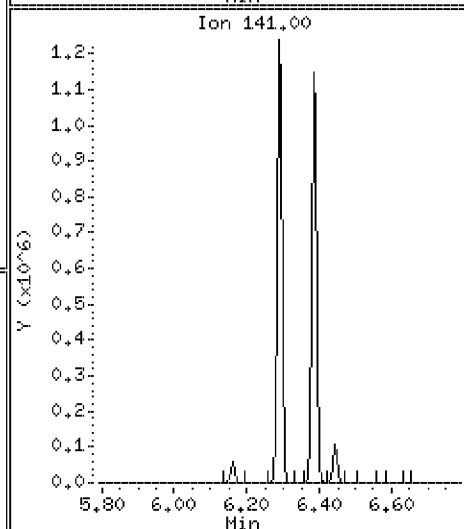
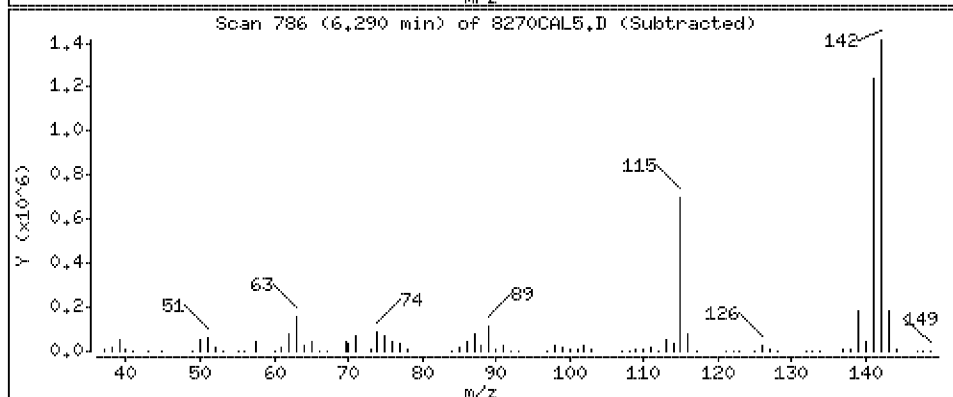
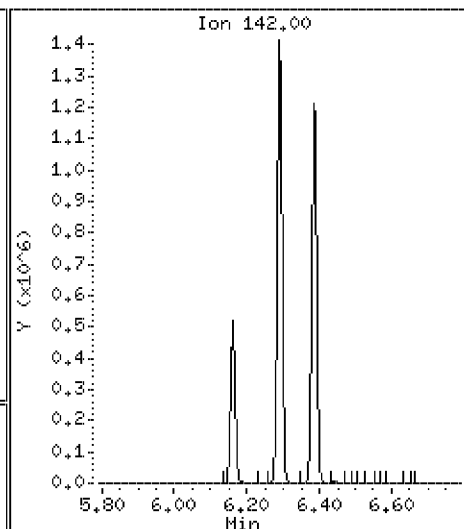
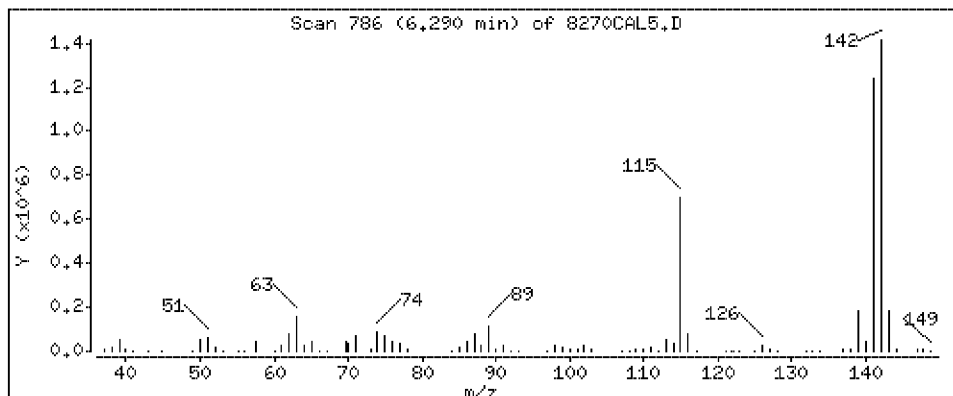
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

53 2-Methylnaphthalene

Concentration: 60.9 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

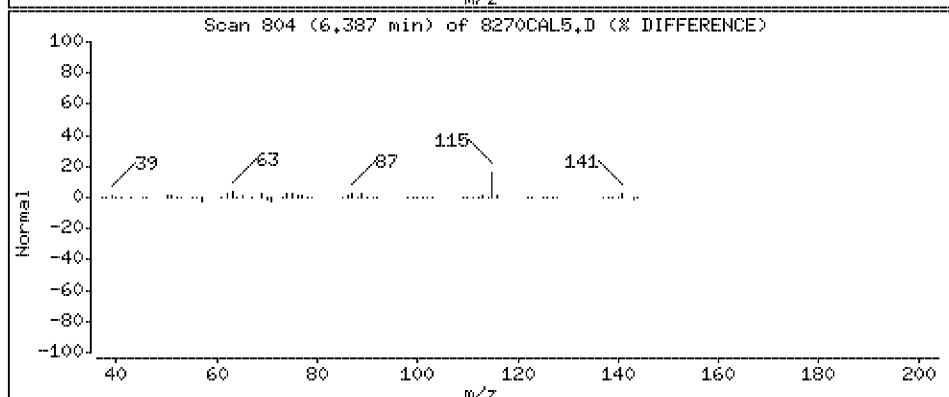
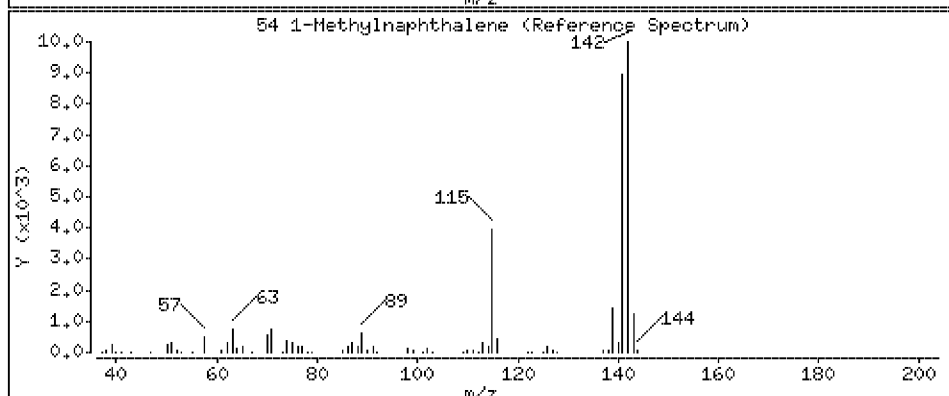
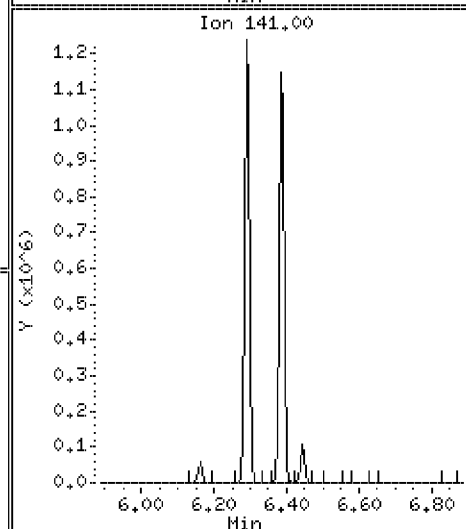
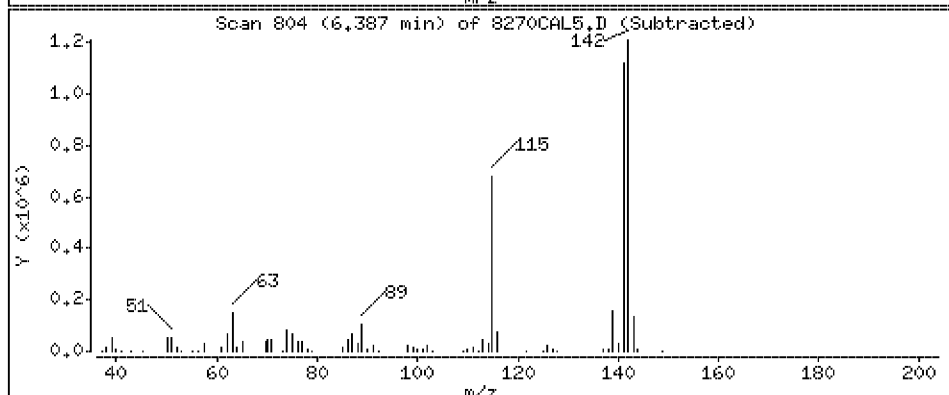
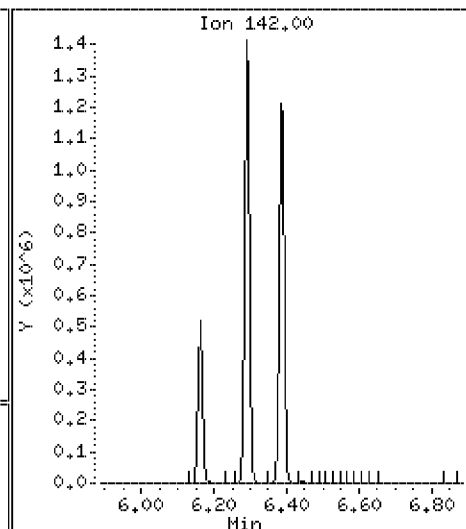
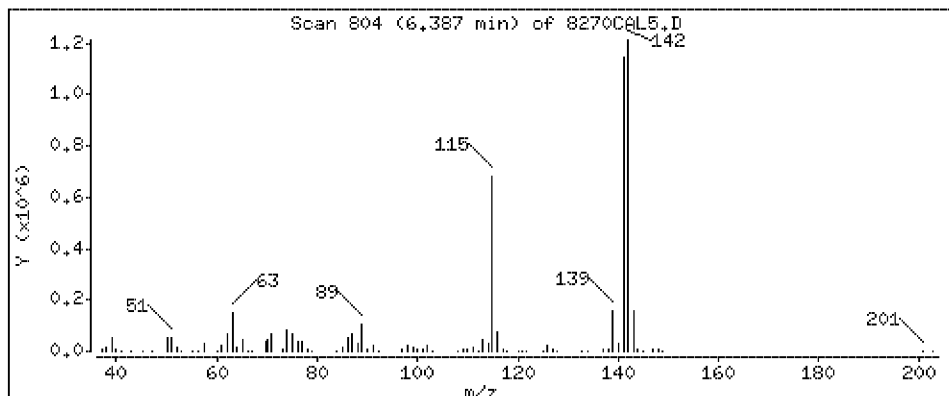
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

54 1-Methylnaphthalene

Concentration: 59.9 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

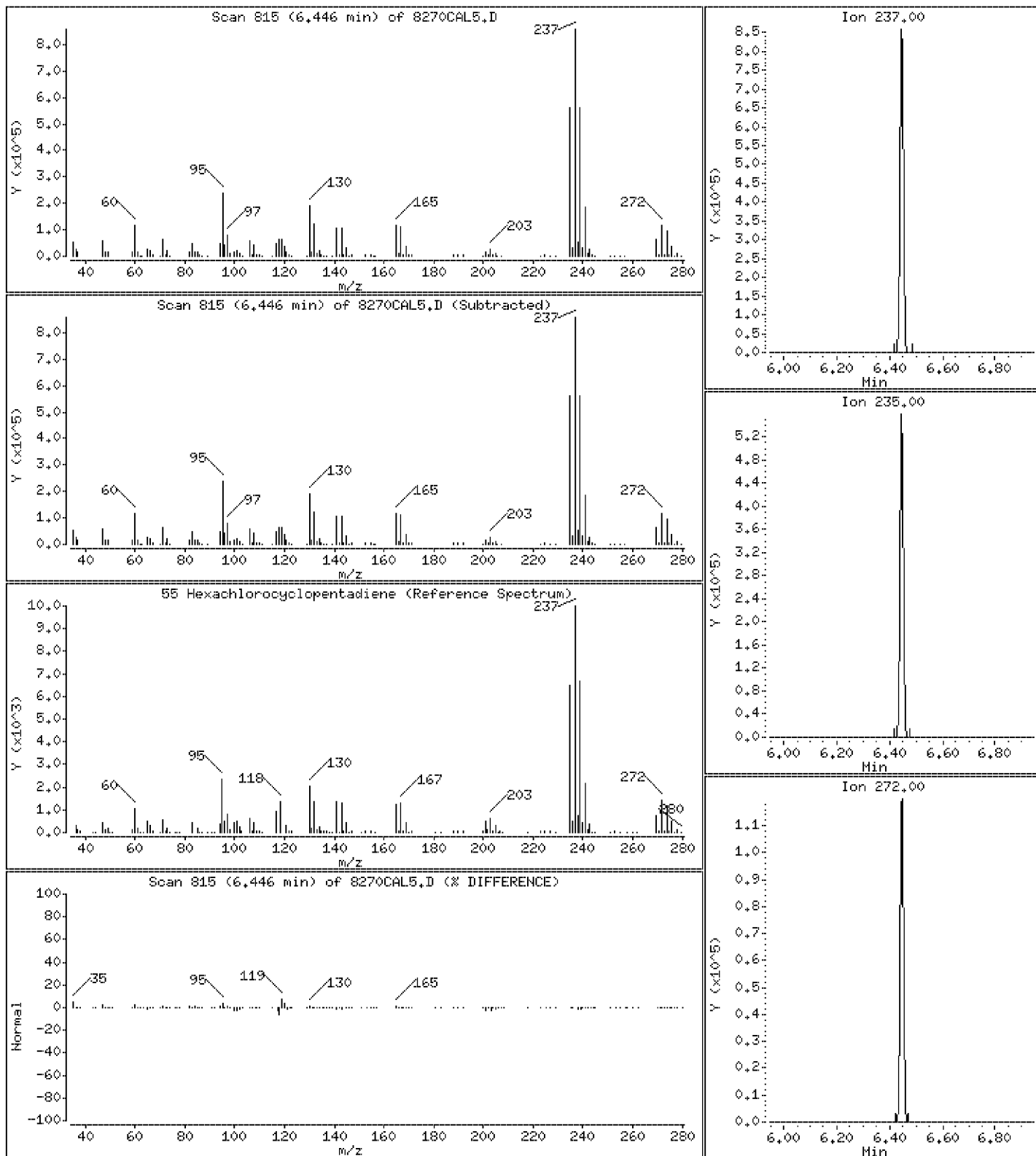
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

55 Hexachlorocyclopentadiene

Concentration: 63.4 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

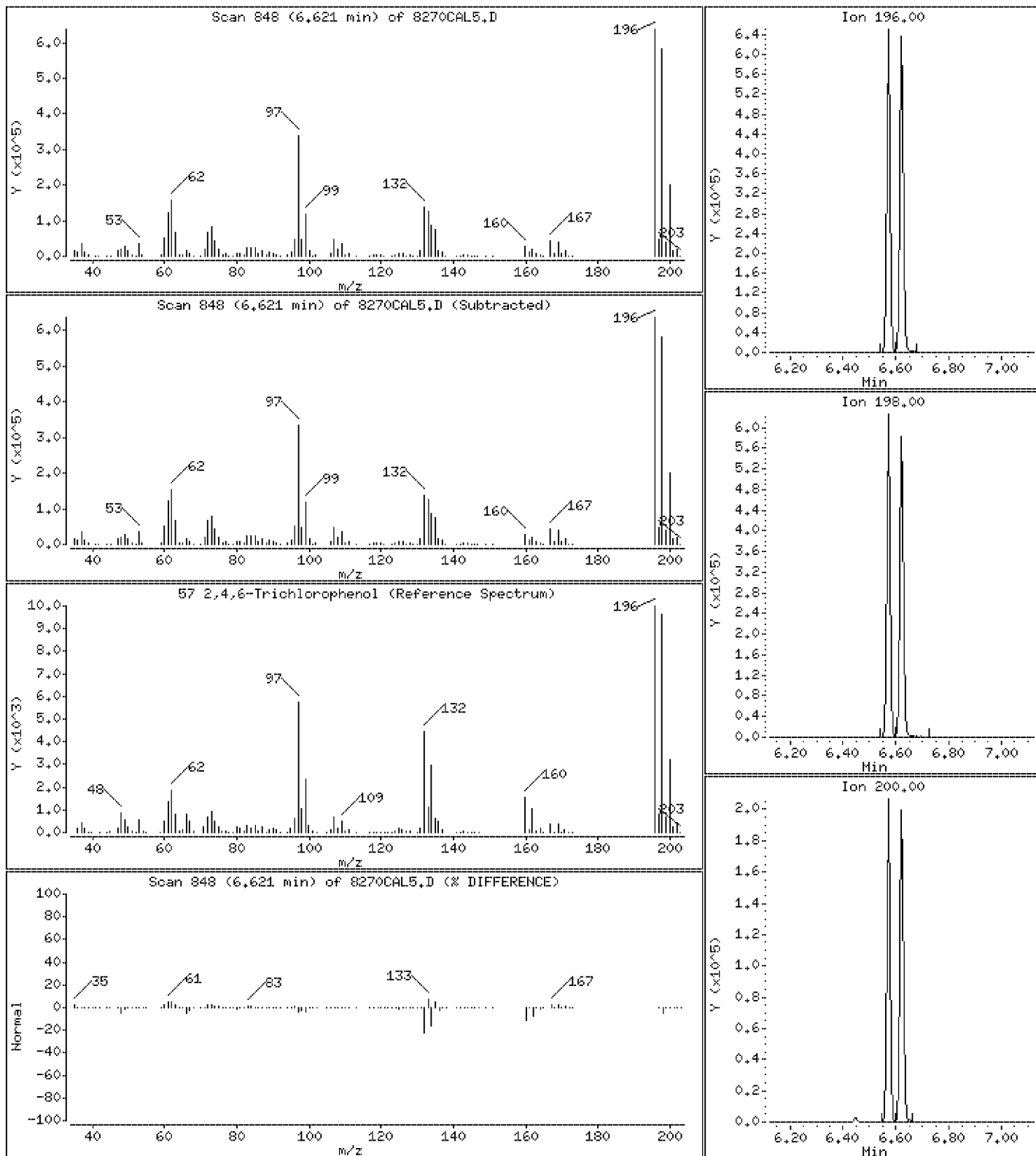
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

57 2,4,6-Trichlorophenol

Concentration: 63.3 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

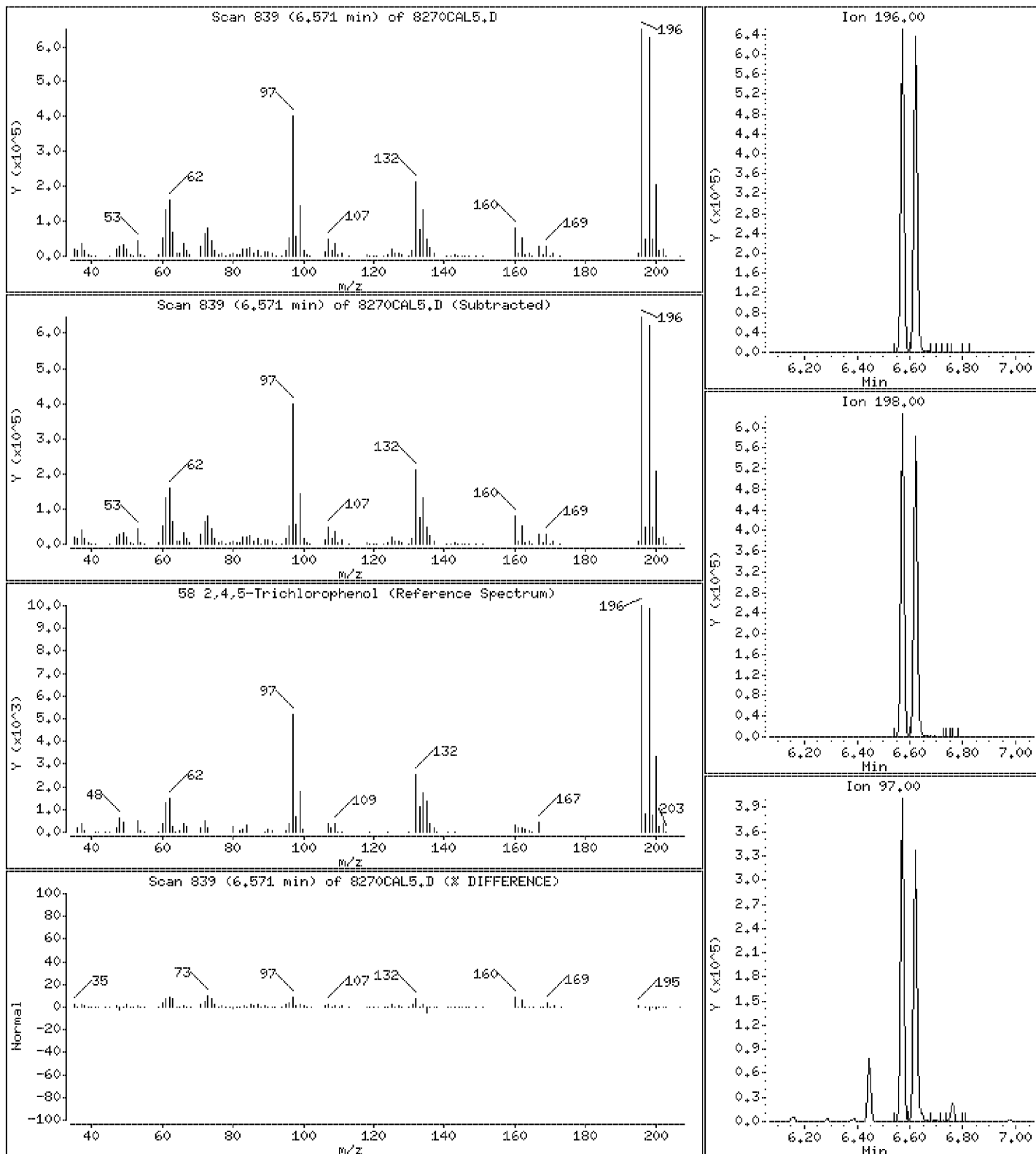
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

58 2,4,5-Trichlorophenol

Concentration: 62.9 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

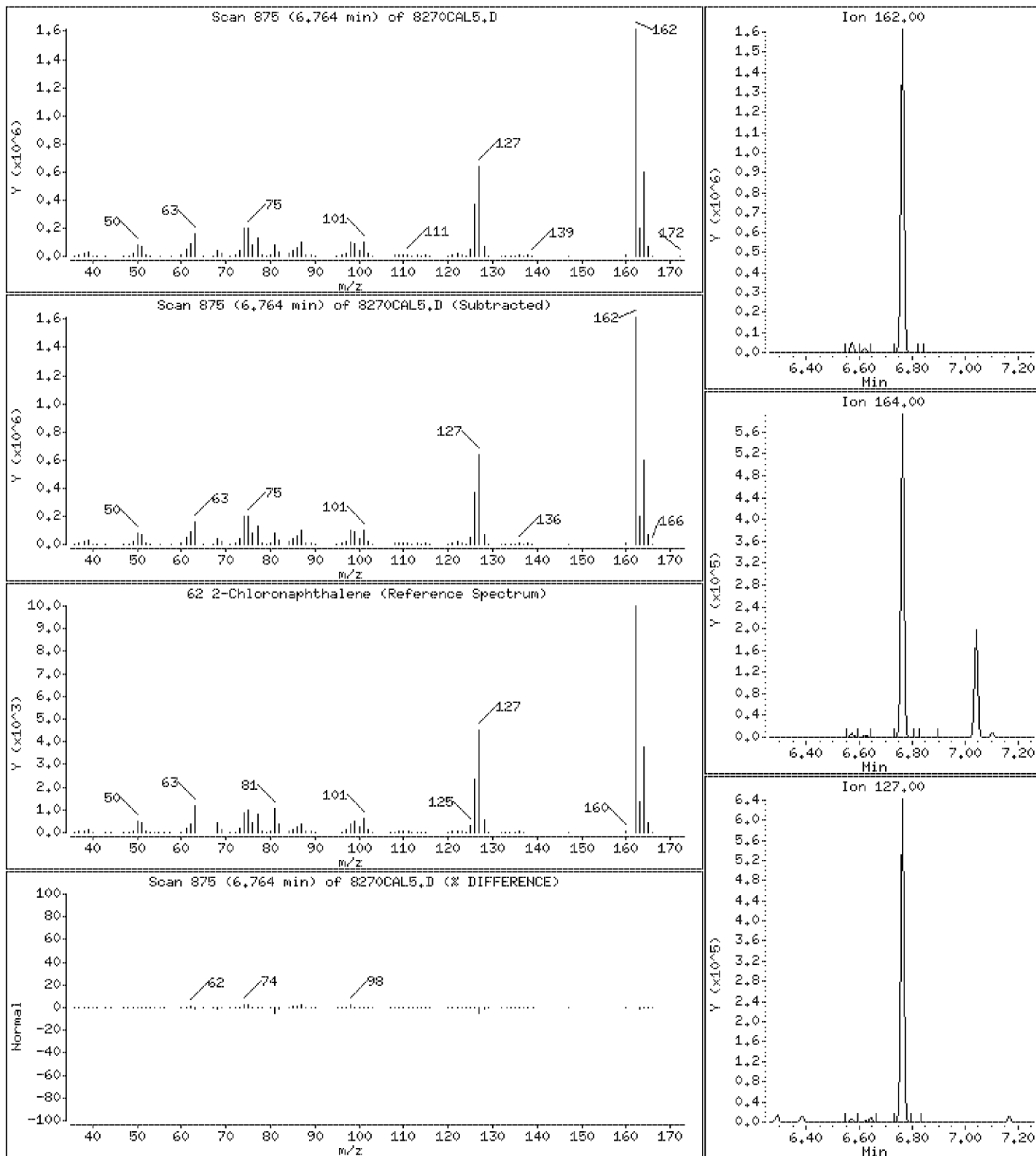
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

62 2-Chloronaphthalene

Concentration: 61.7 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

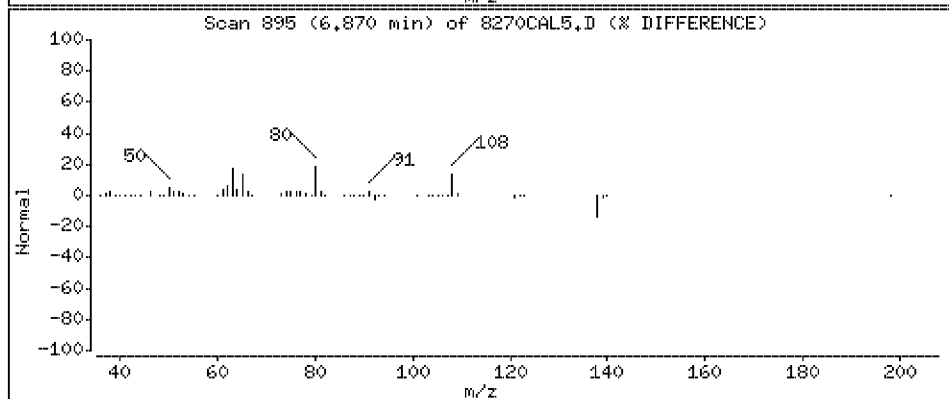
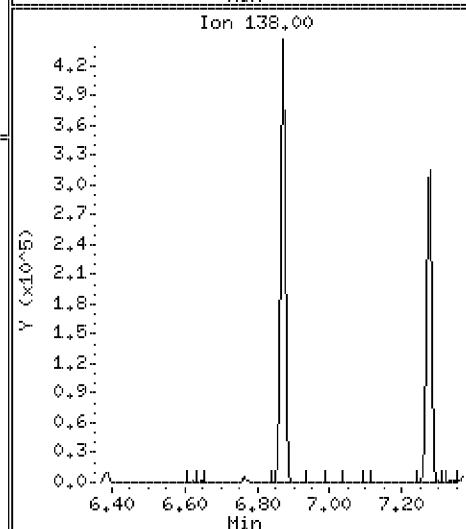
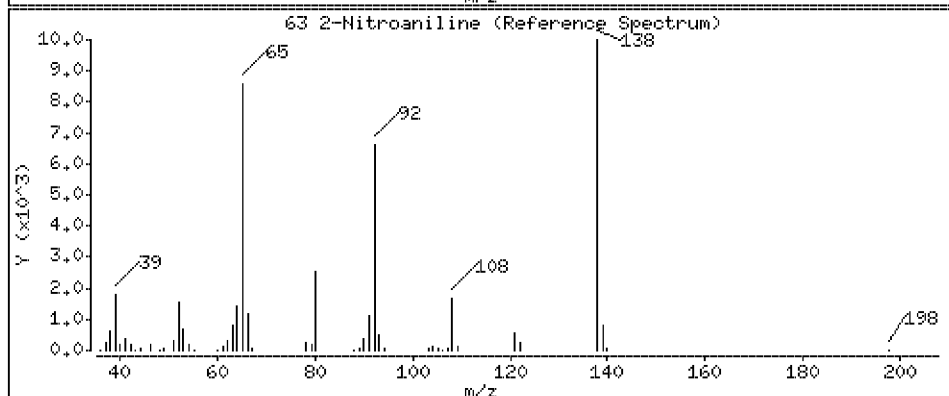
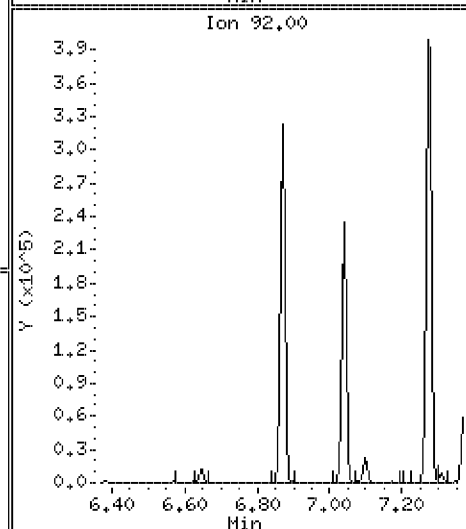
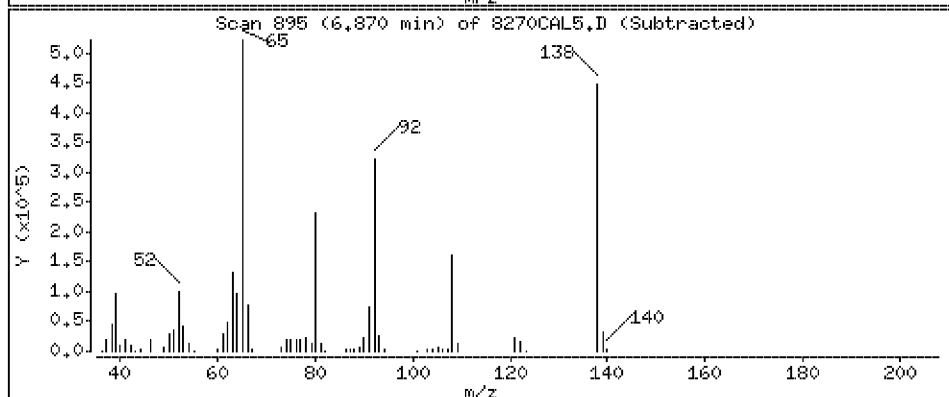
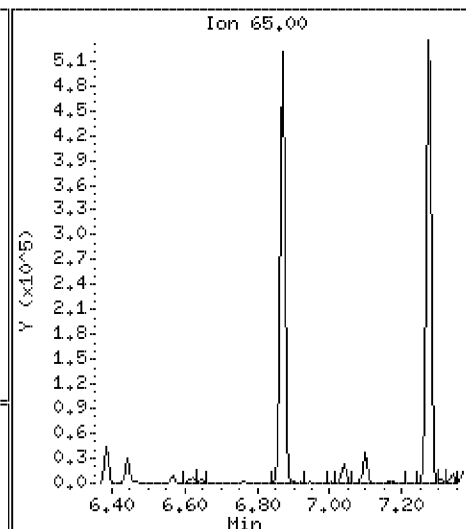
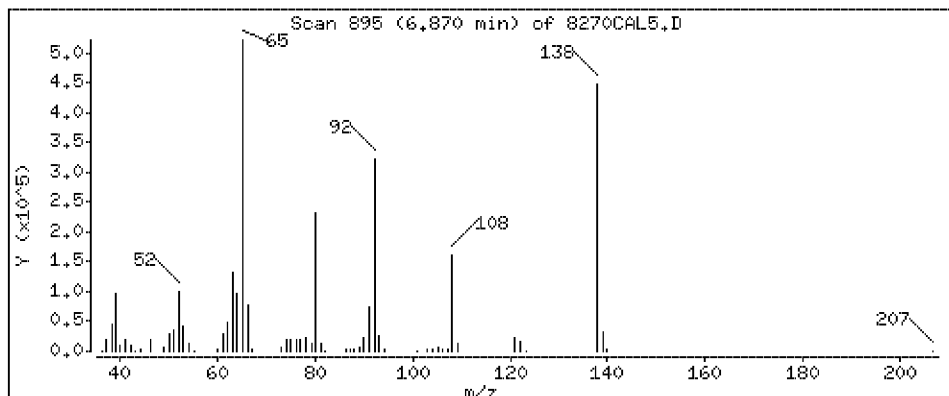
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

63 2-Nitroaniline

Concentration: 62.6 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

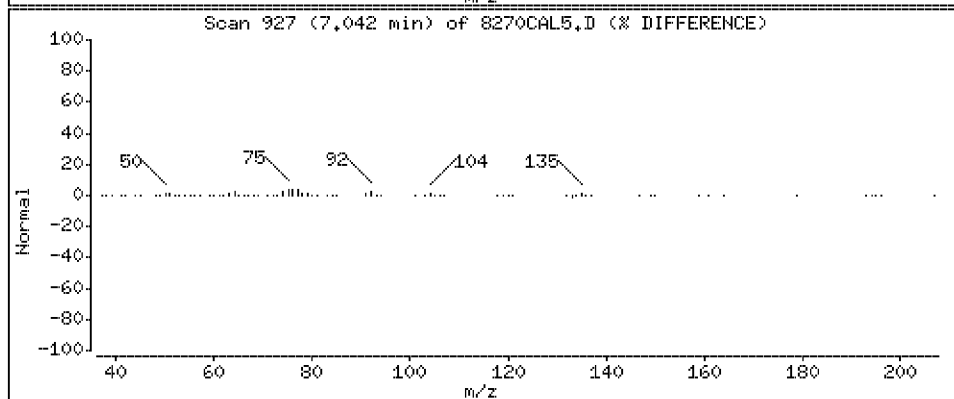
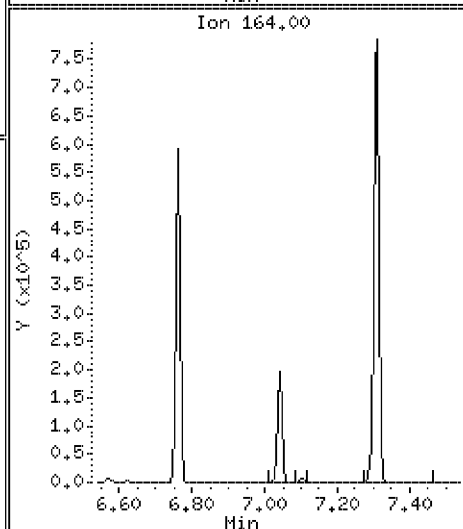
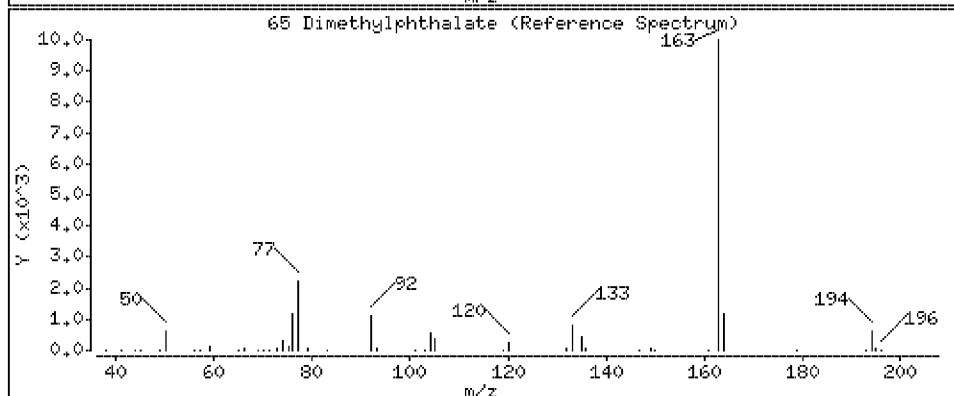
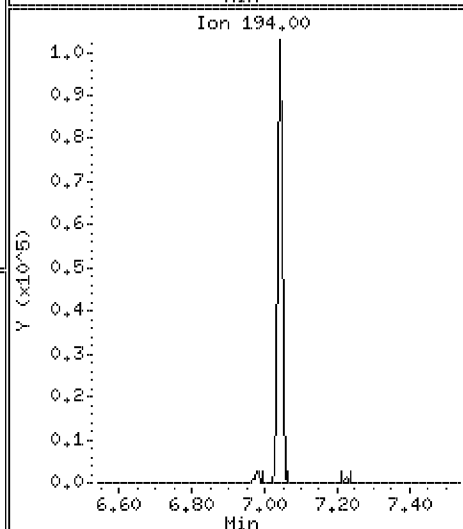
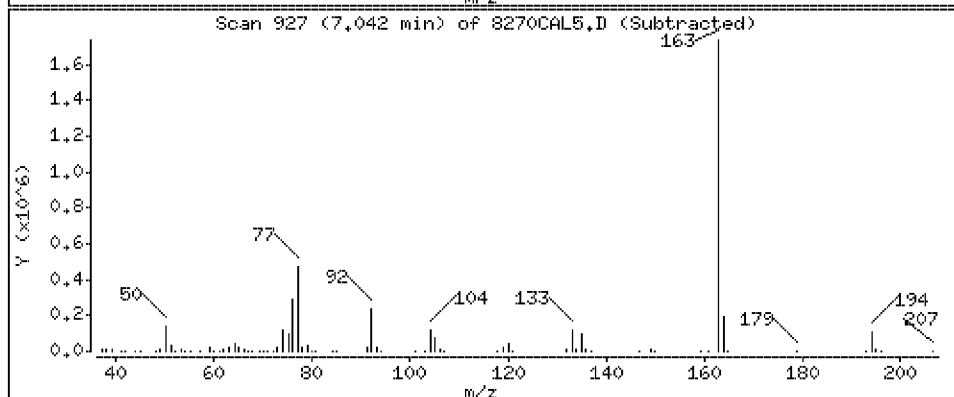
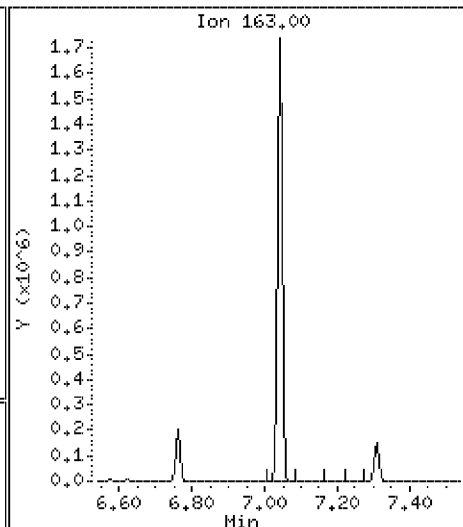
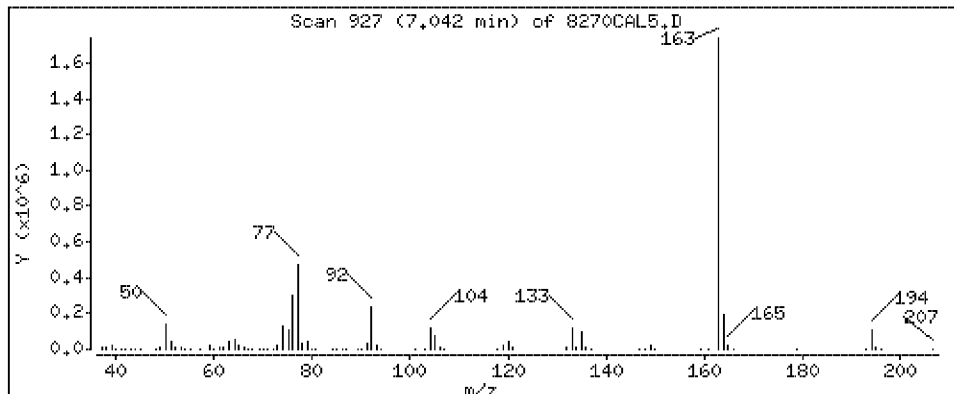
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

65 Dimethylphthalate

Concentration: 61.2 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

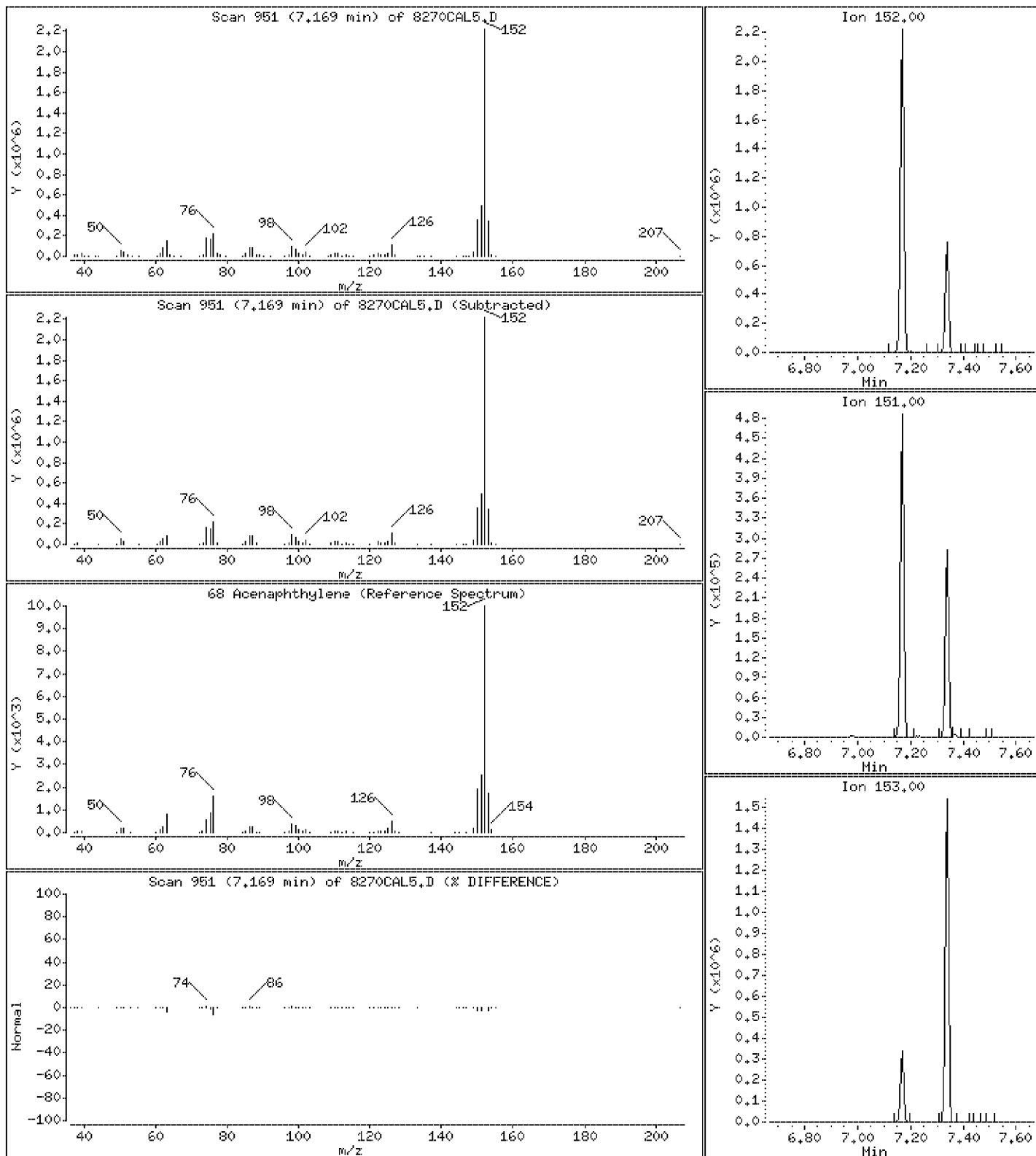
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

68 Acenaphthylene

Concentration: 61.7 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

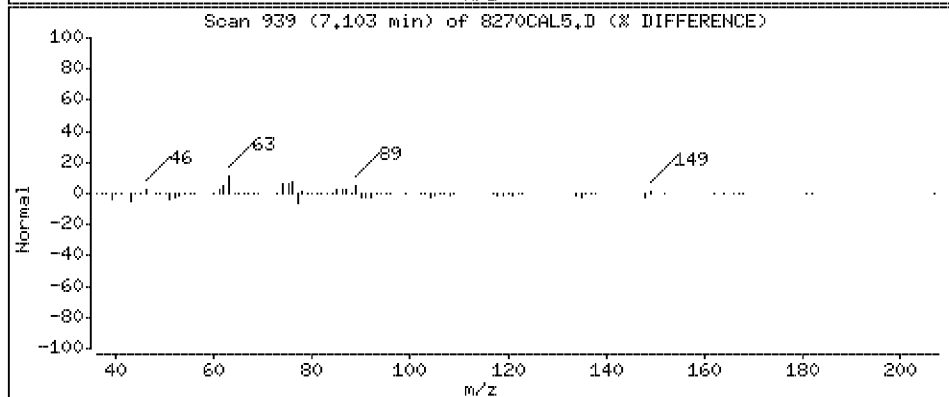
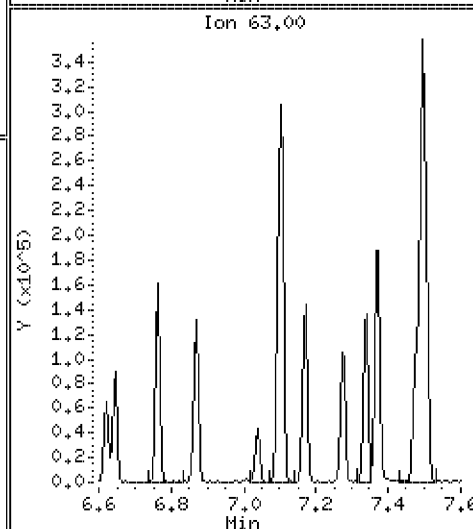
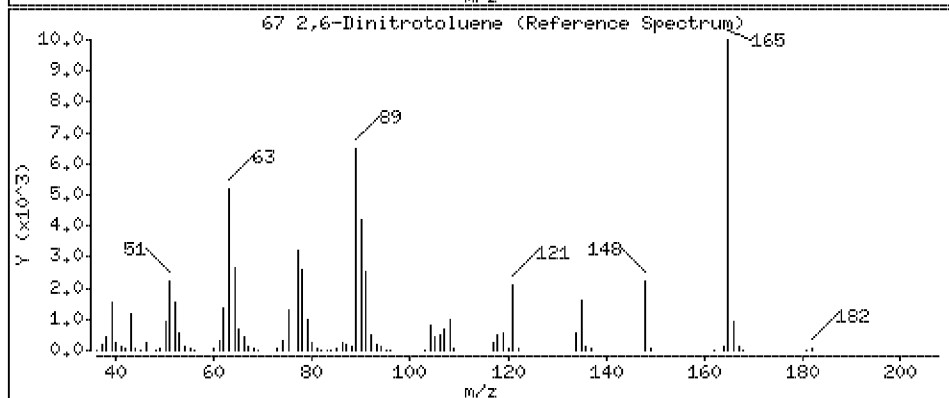
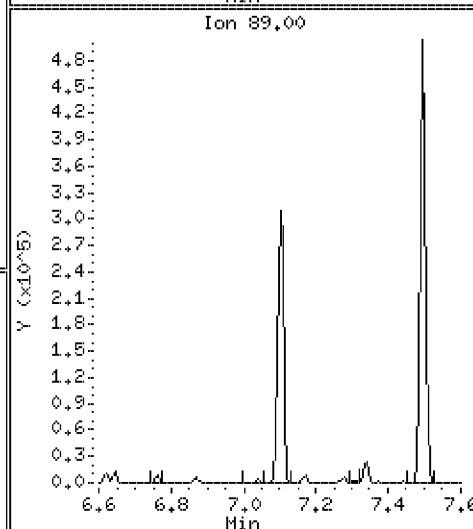
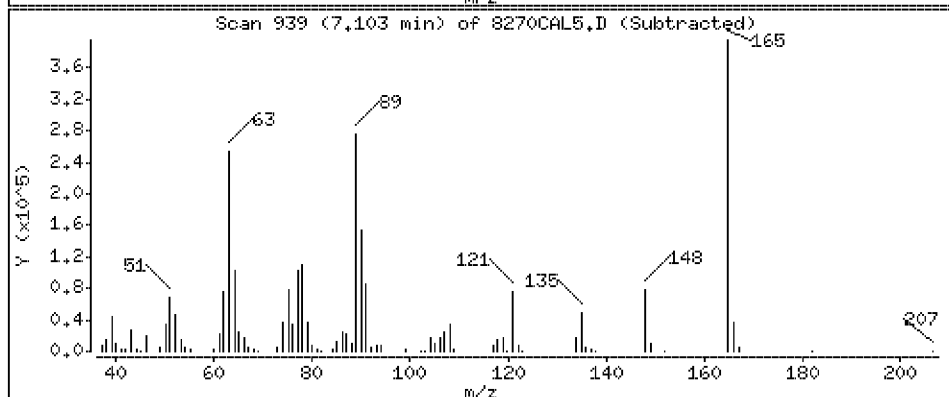
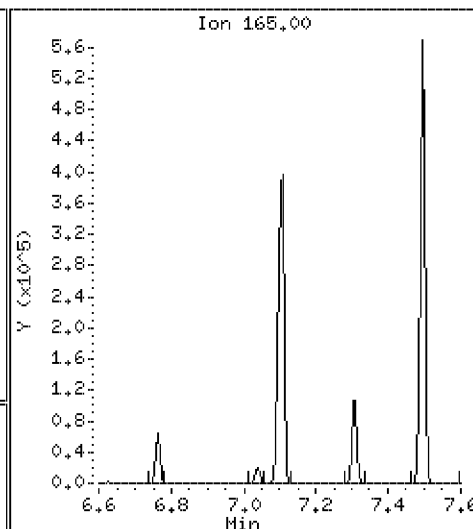
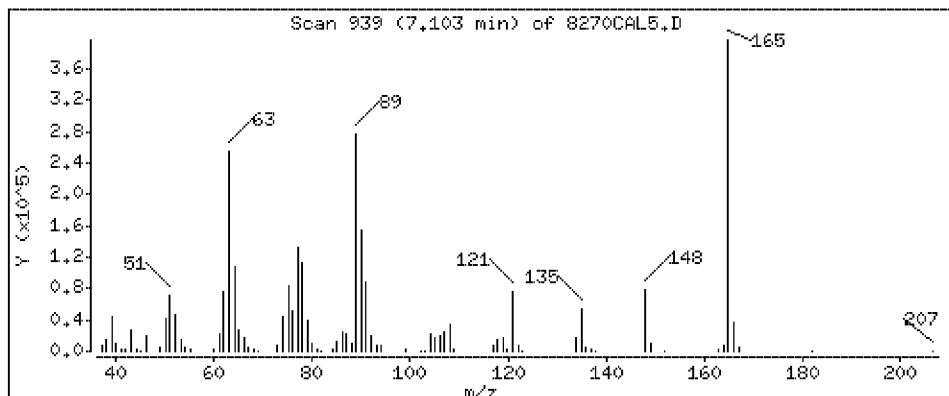
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

67 2,6-Dinitrotoluene

Concentration: 63.5 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

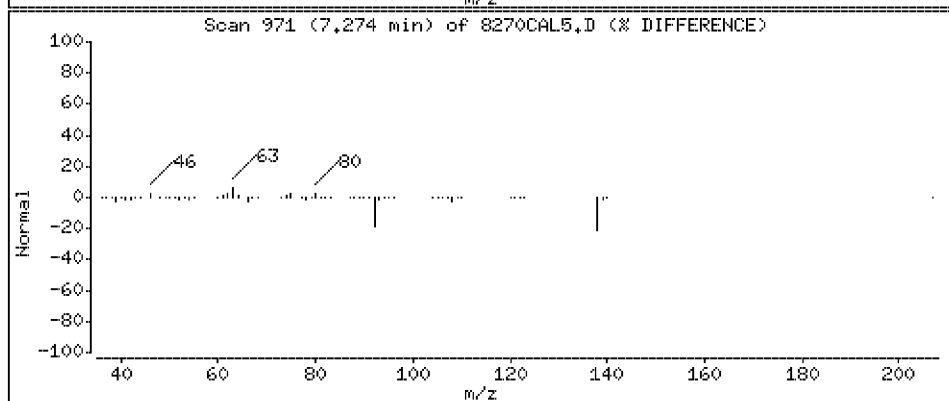
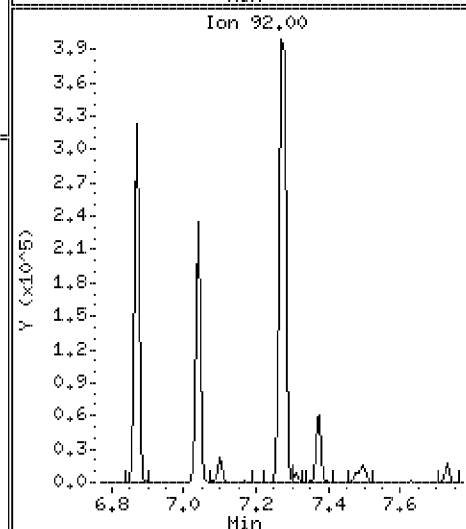
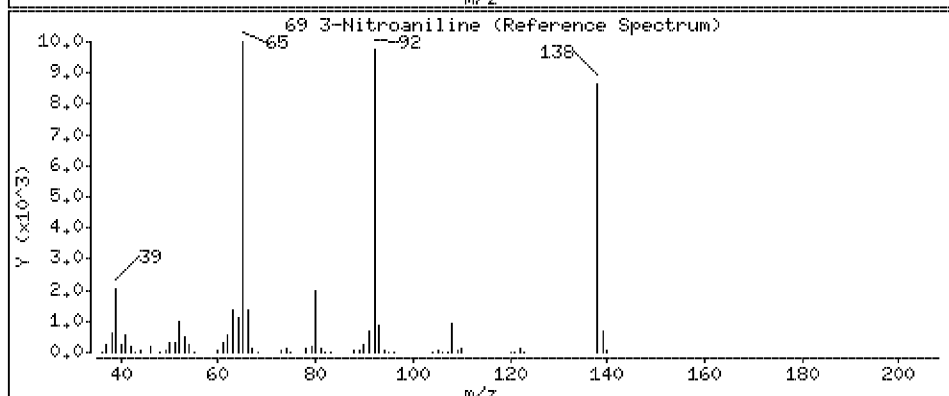
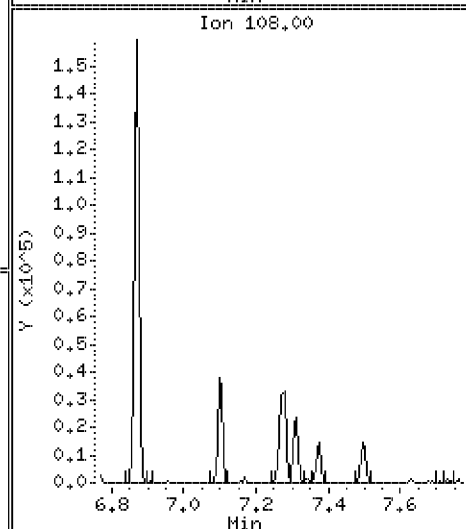
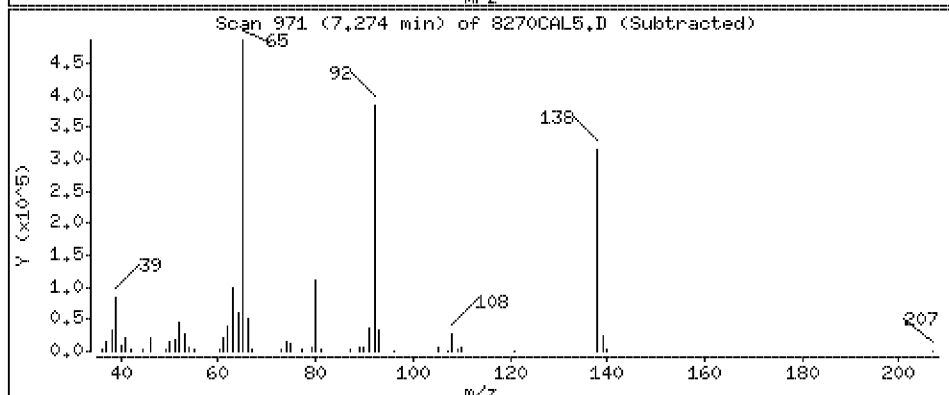
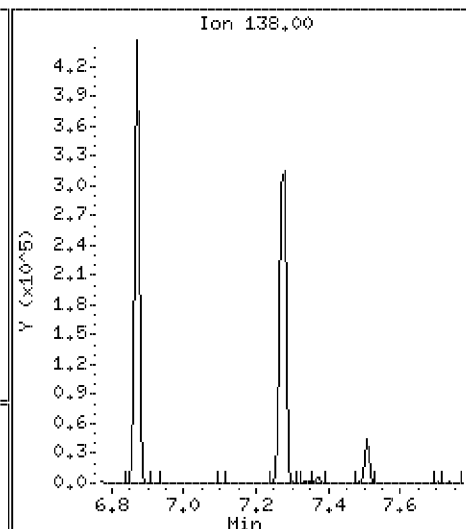
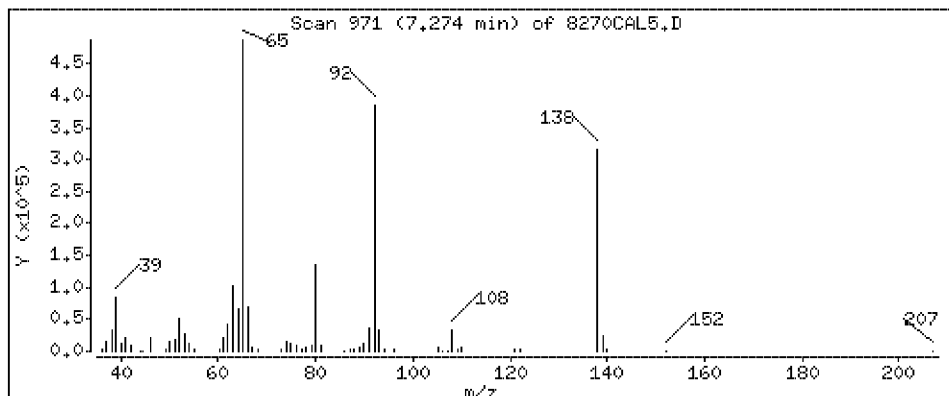
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

69 3-Nitroaniline

Concentration: 60.7 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

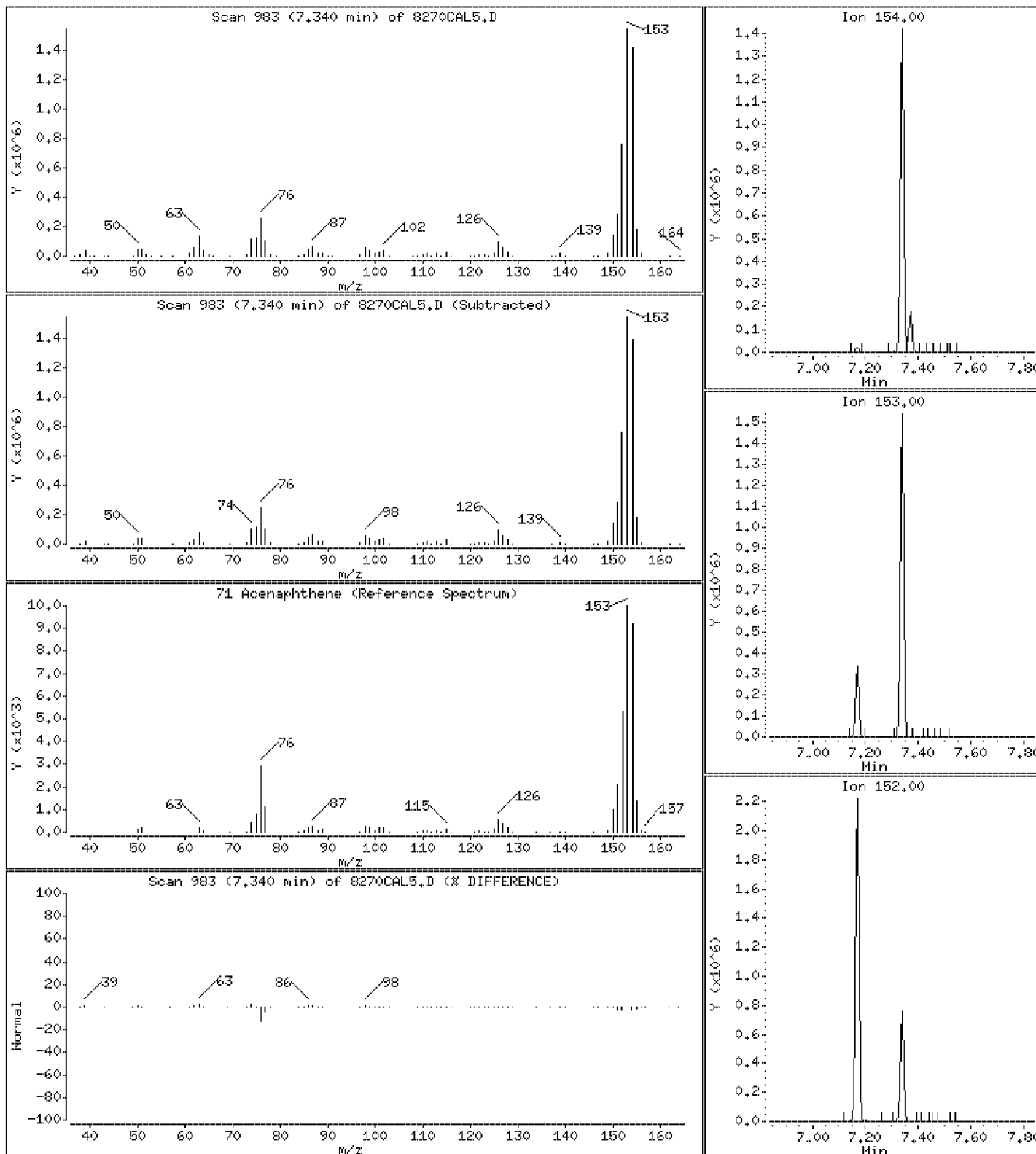
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

71 Acenaphthene

Concentration: 62.4 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

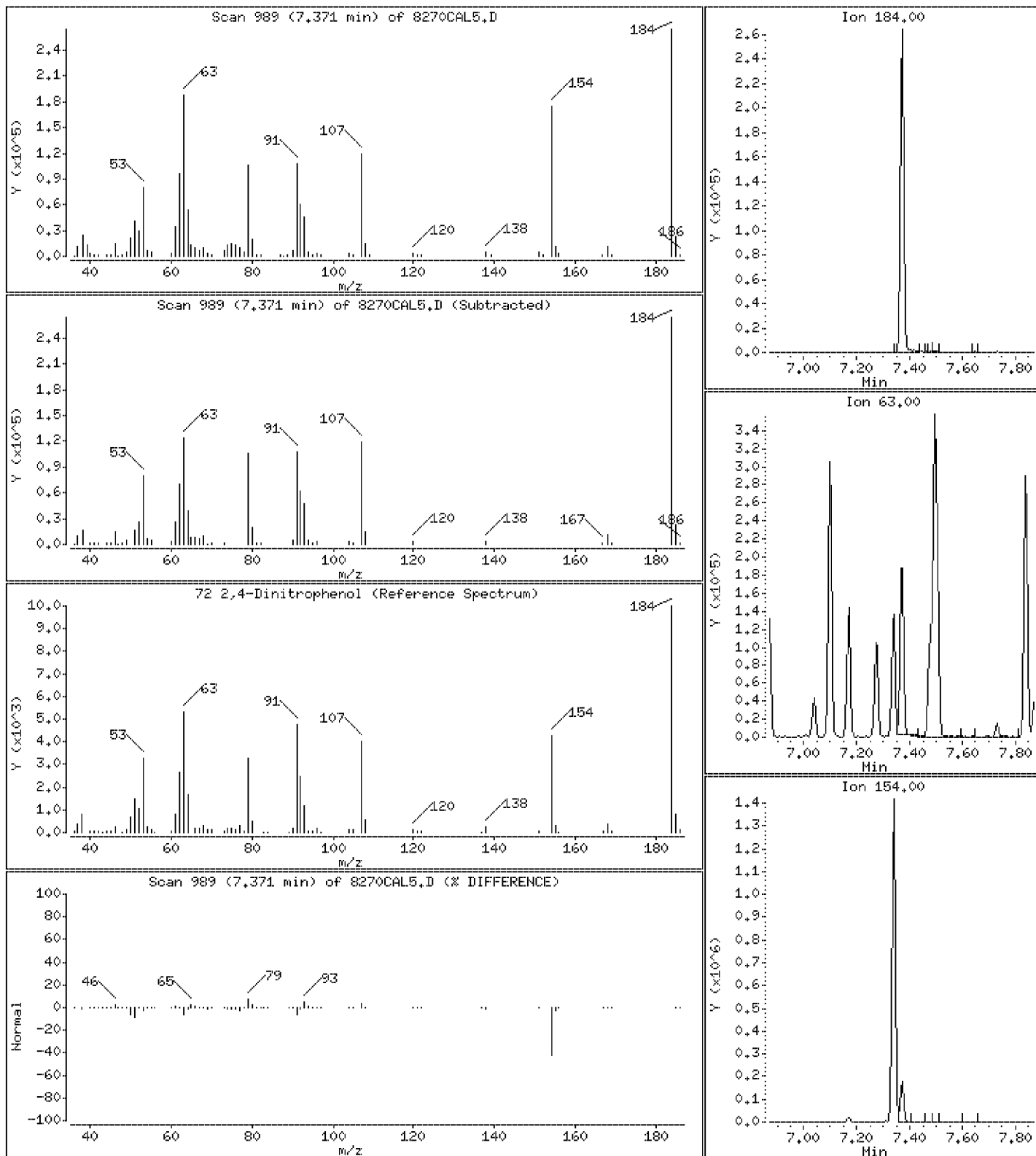
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

72 2,4-Dinitrophenol

Concentration: 60.4 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

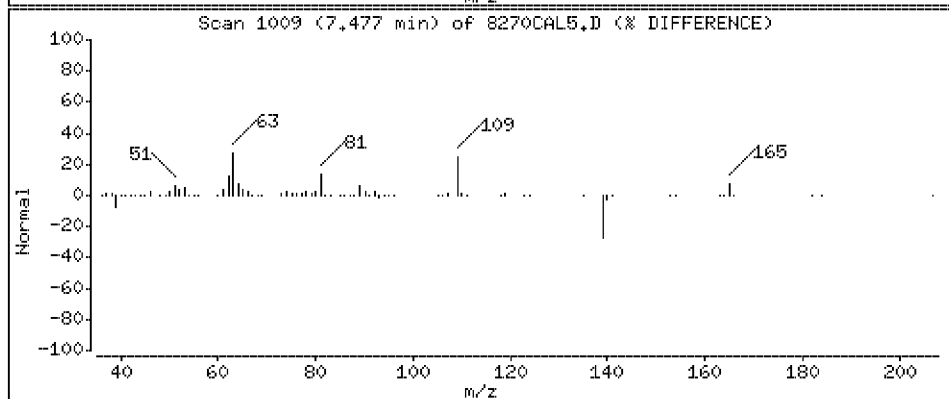
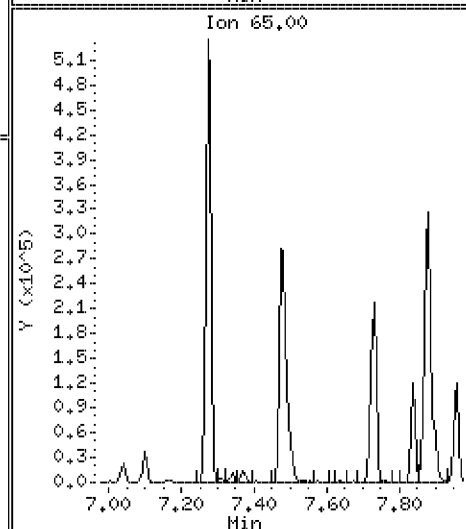
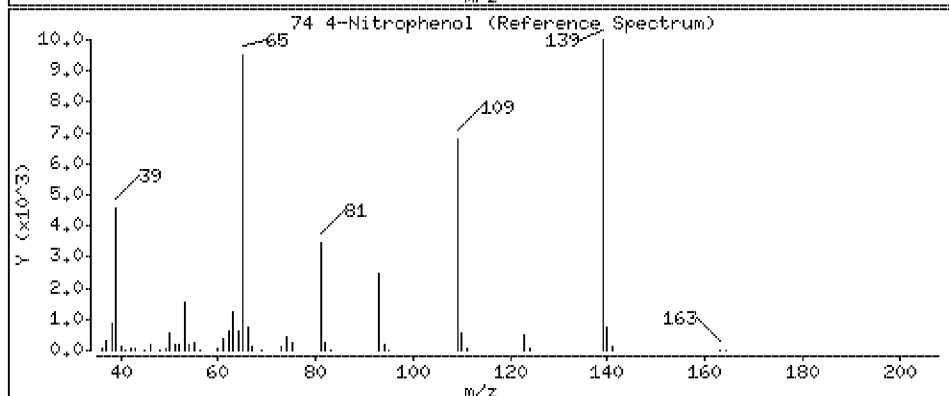
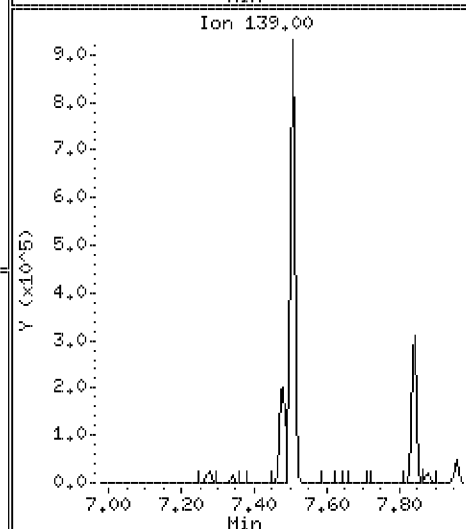
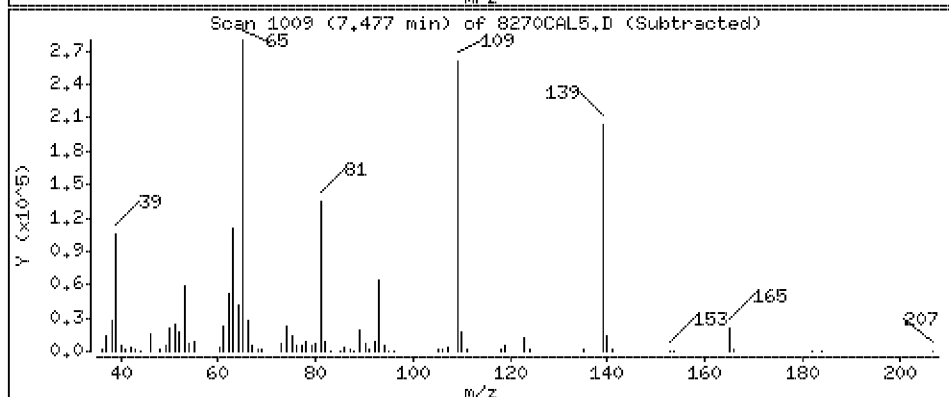
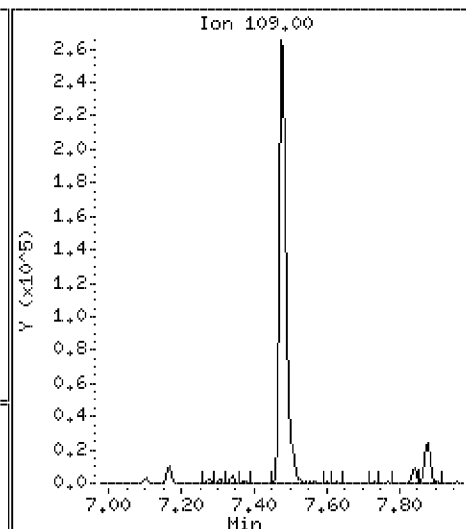
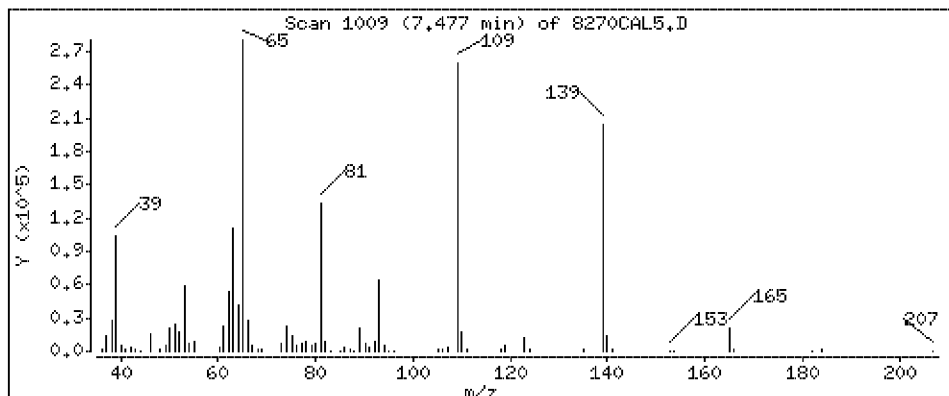
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

74 4-Nitrophenol

Concentration: 63.1 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

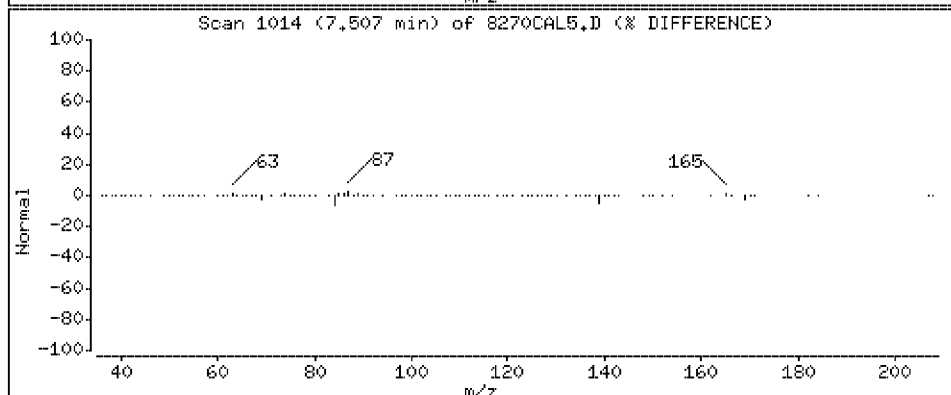
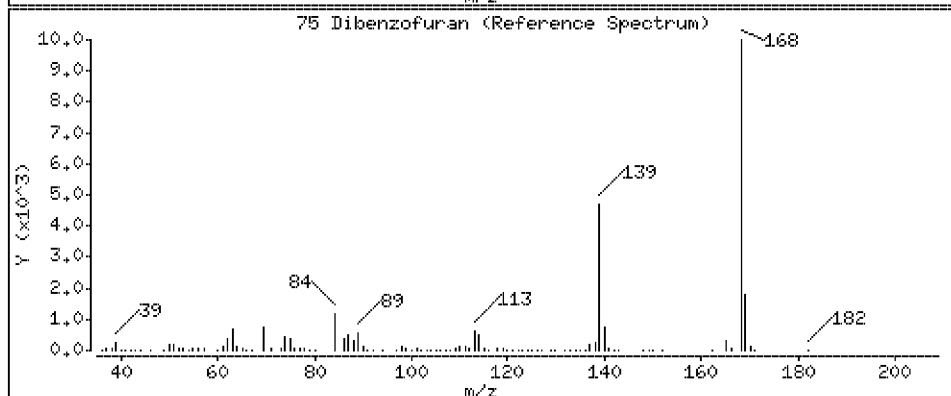
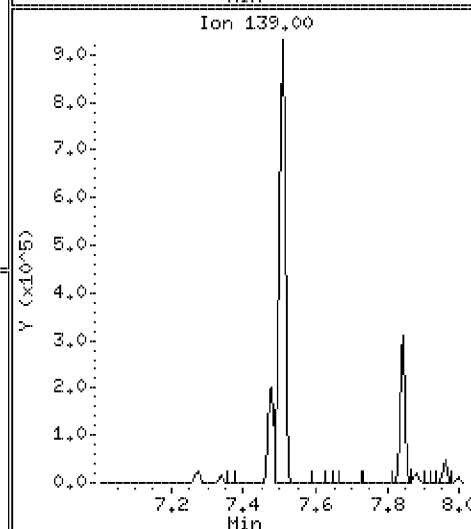
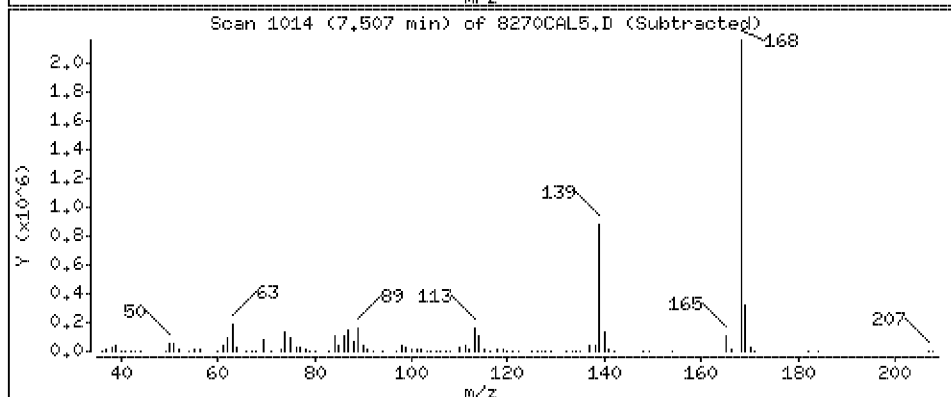
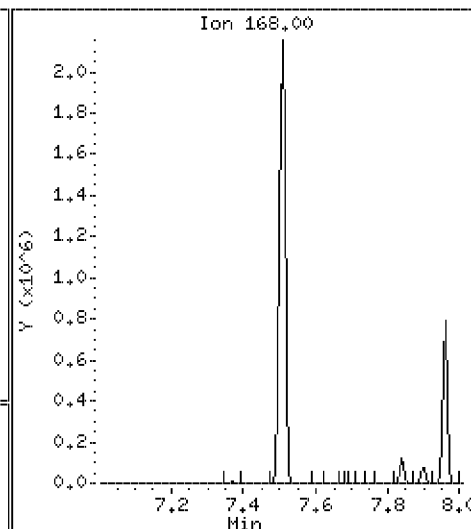
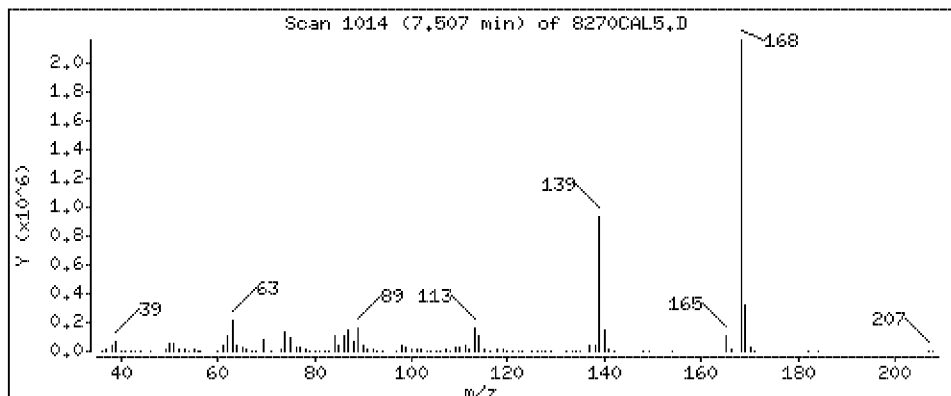
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

75 Dibenzofuran

Concentration: 61.1 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

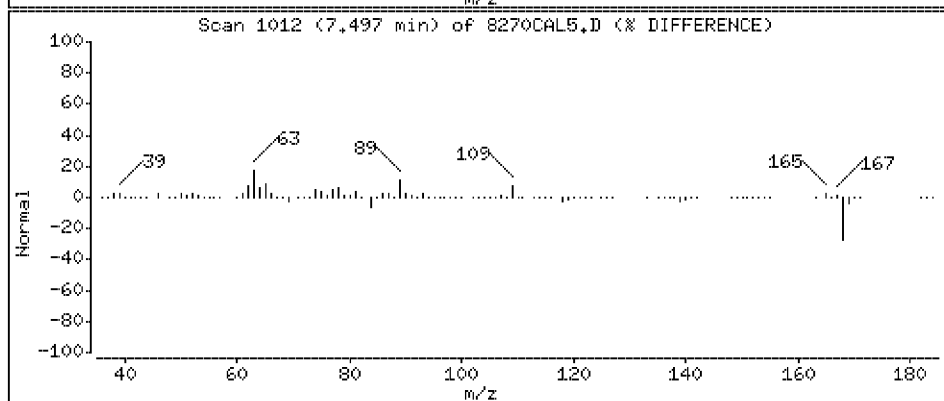
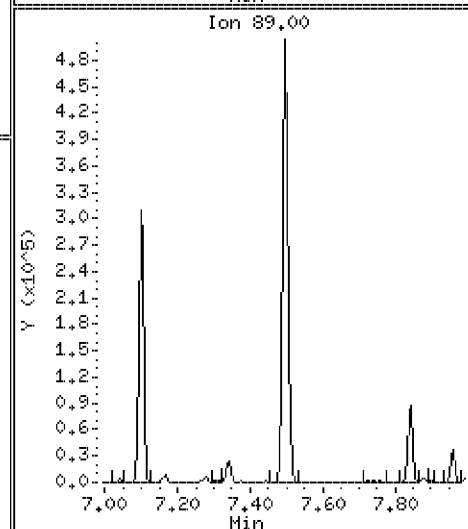
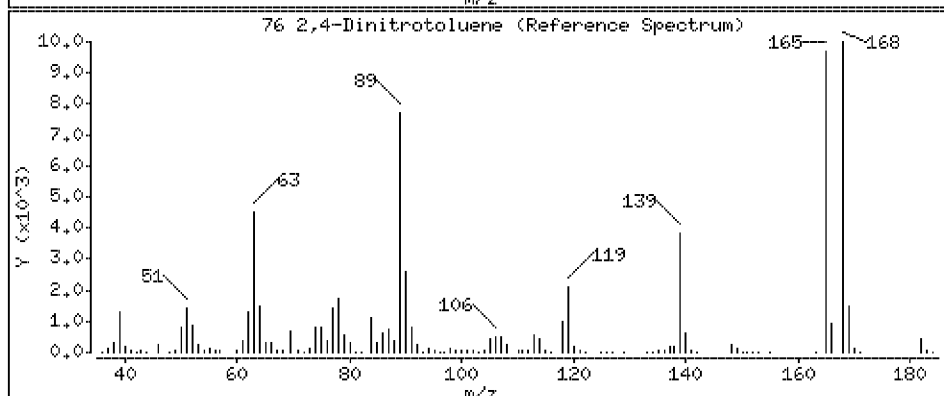
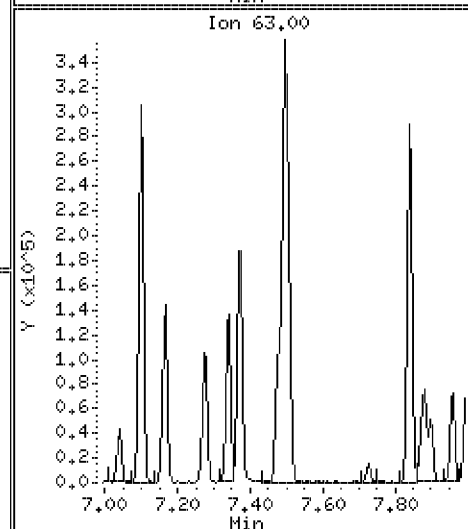
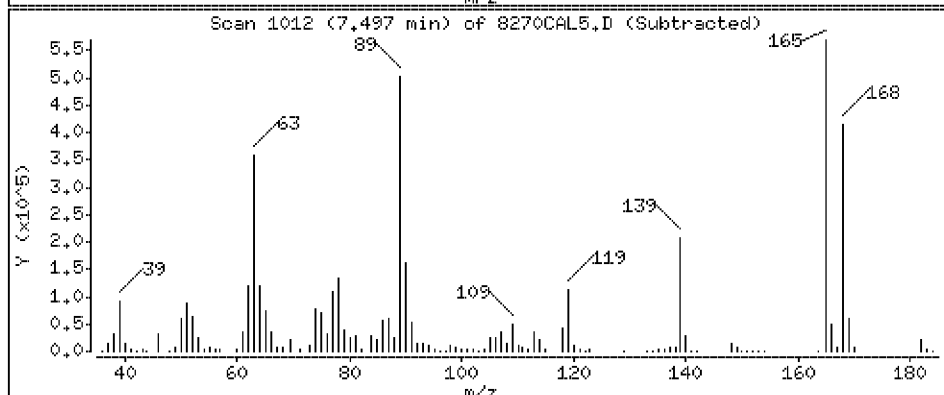
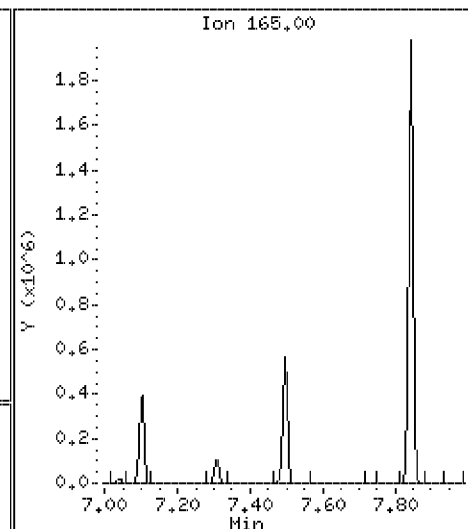
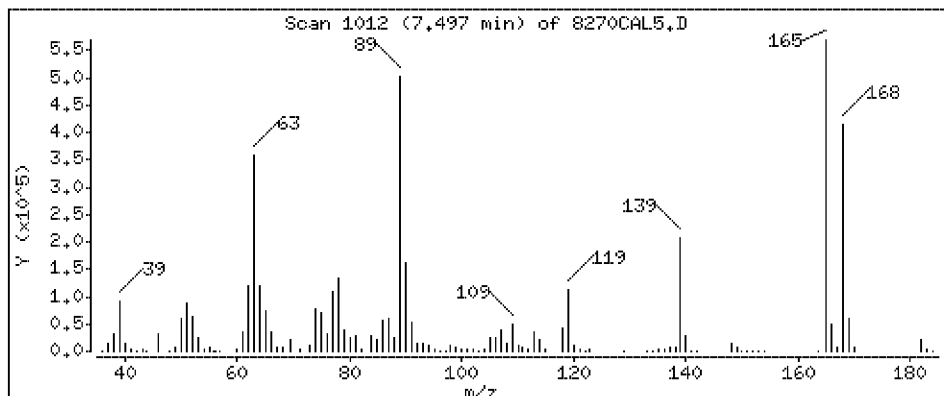
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

76 2,4-Dinitrotoluene

Concentration: 62.7 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

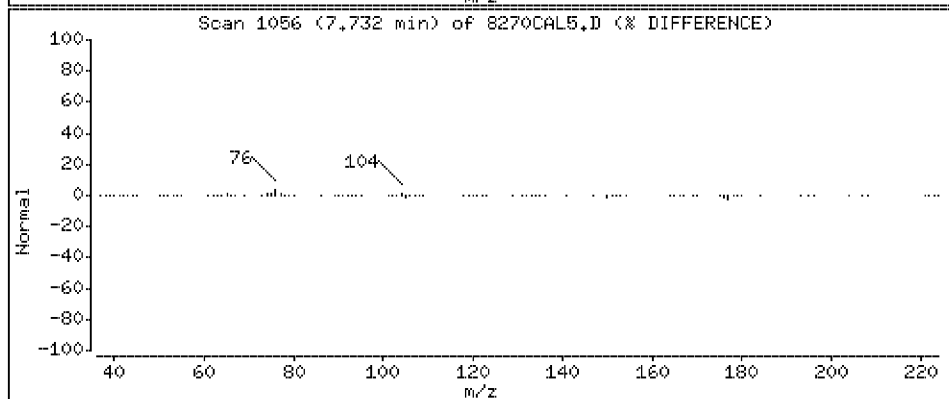
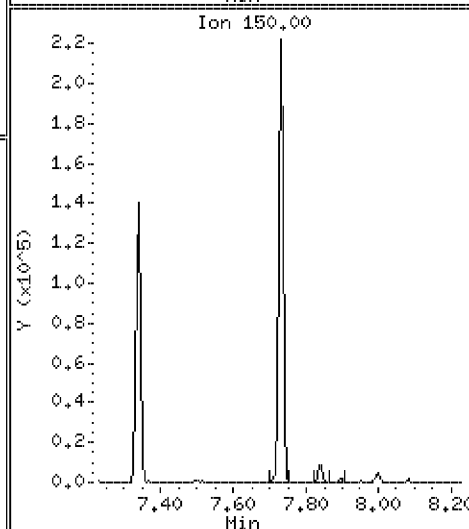
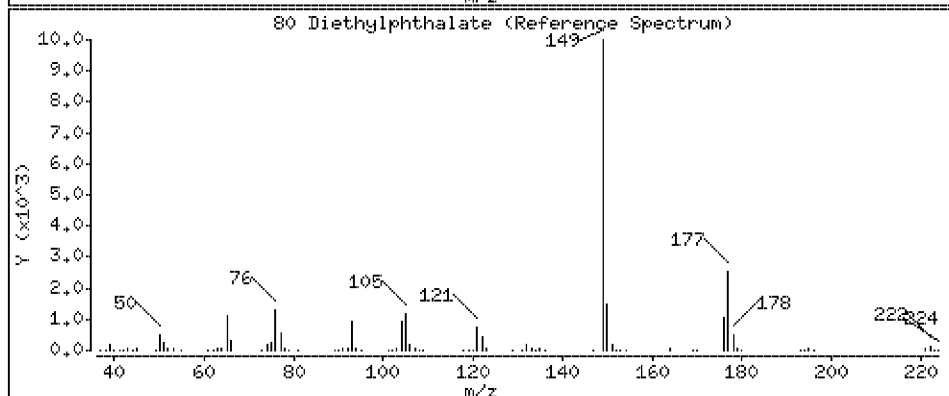
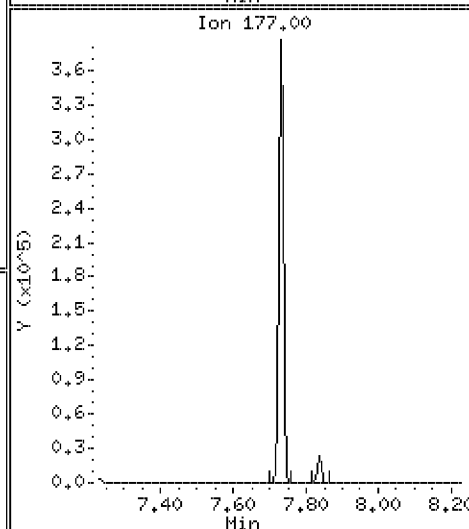
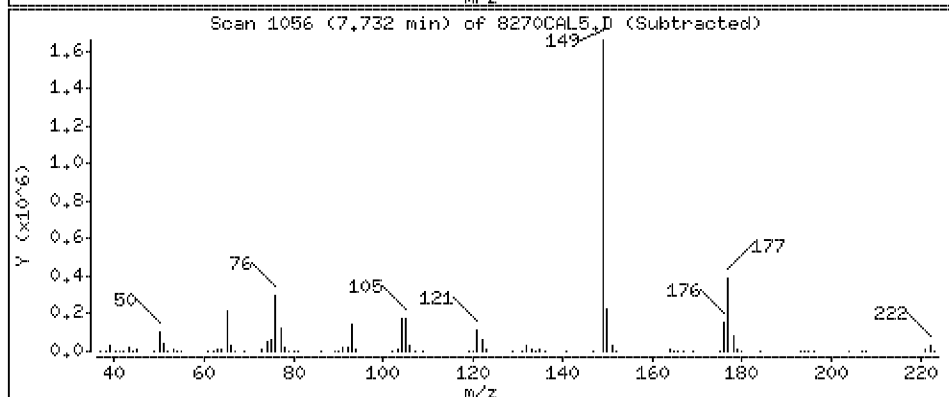
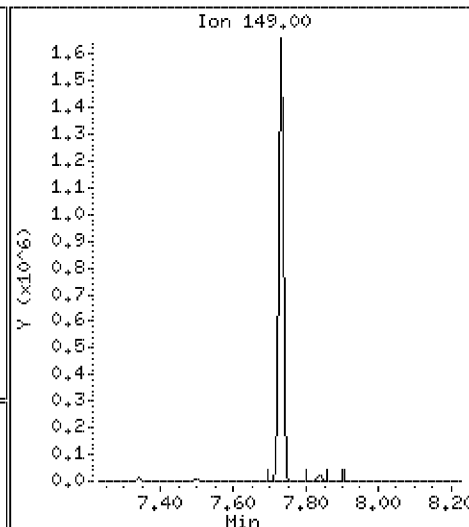
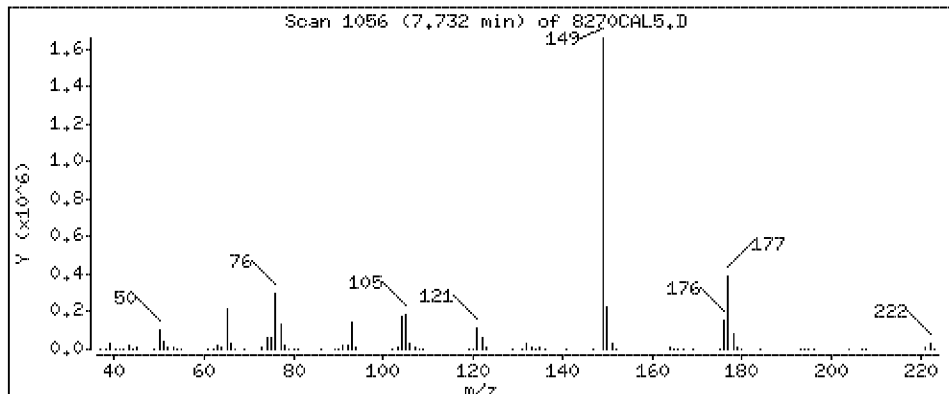
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

80 Diethylphthalate

Concentration: 61.1 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

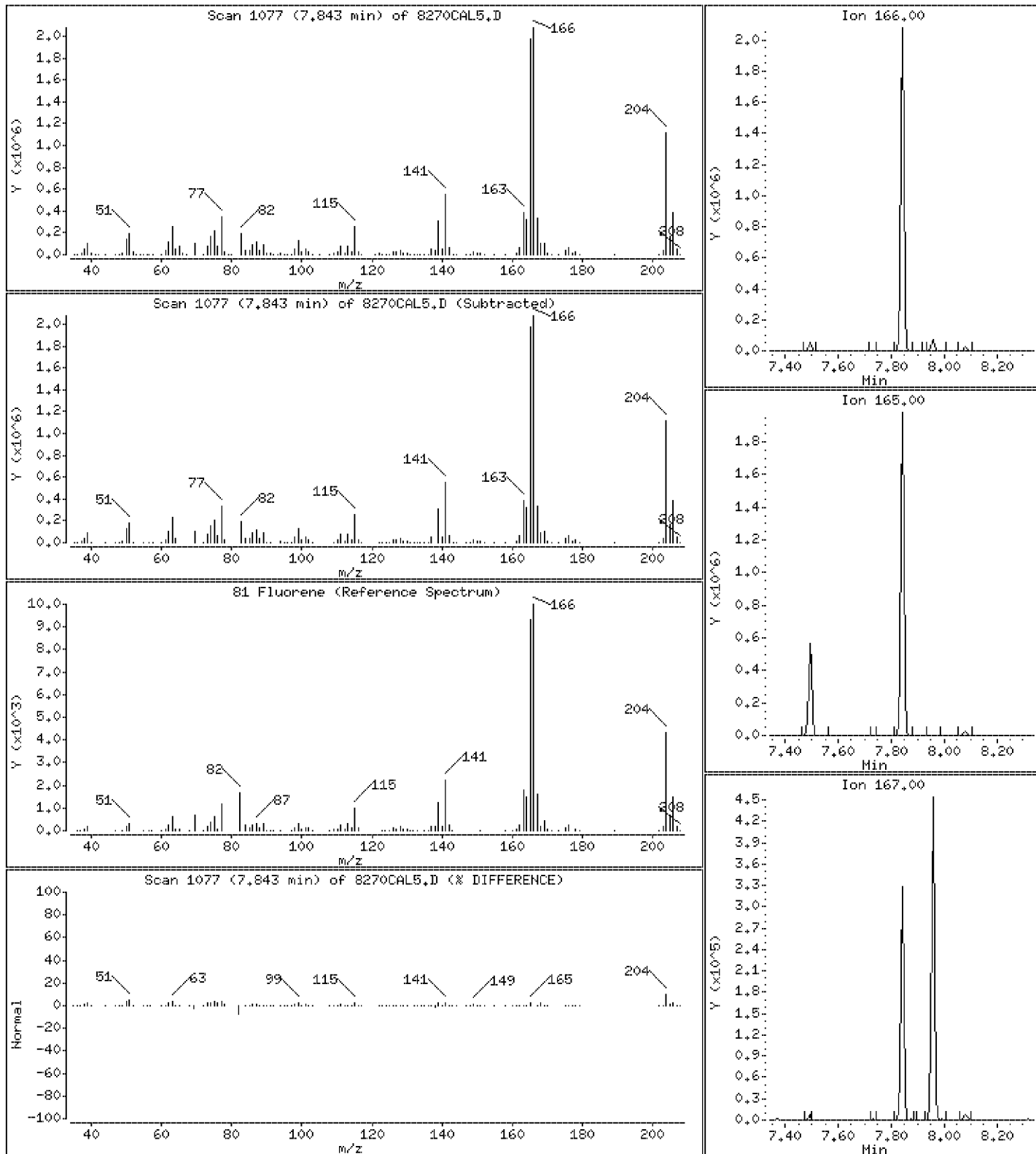
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

81 Fluorene

Concentration: 63.7 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

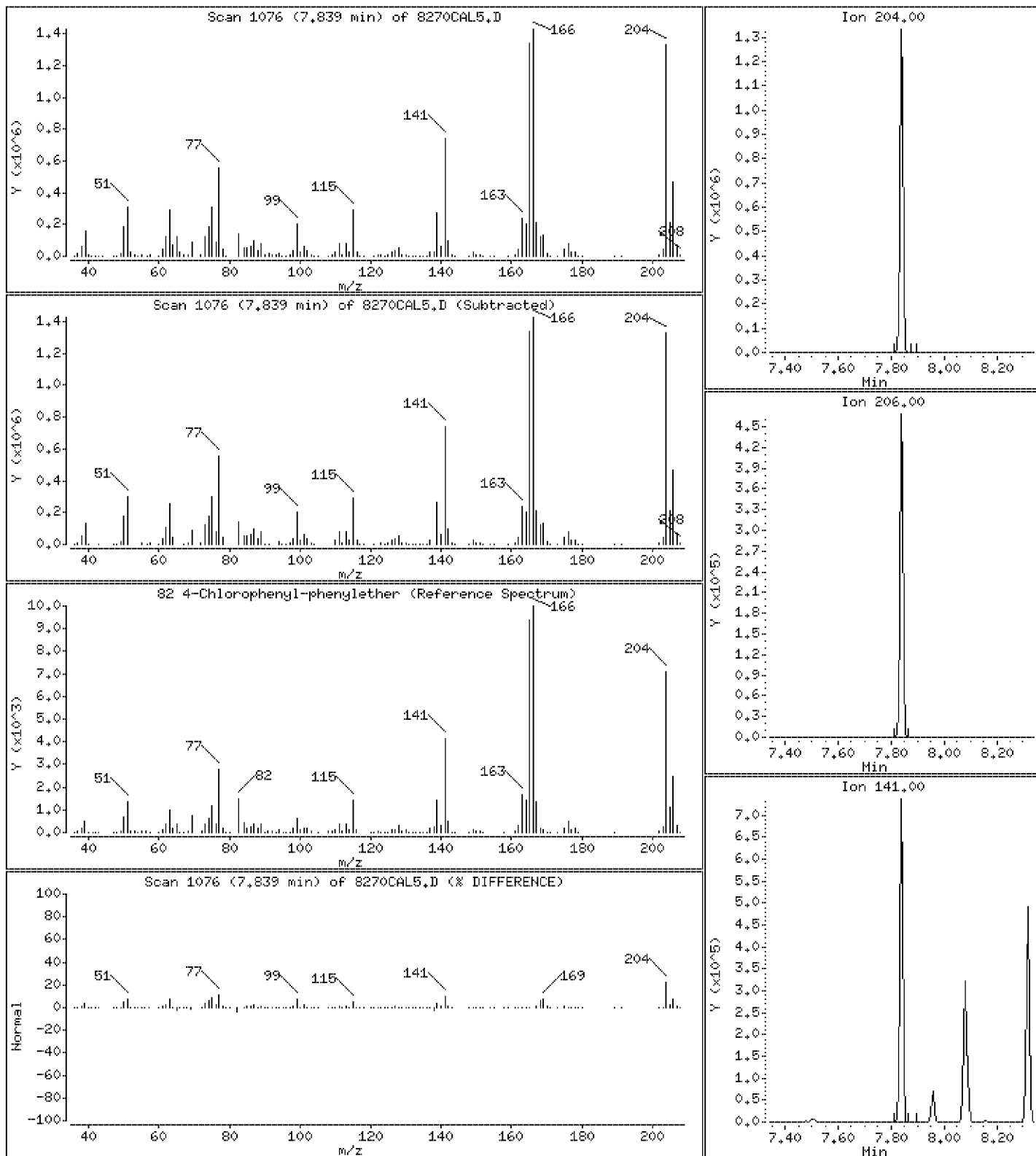
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

82 4-Chlorophenyl-phenylether

Concentration: 64.4 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

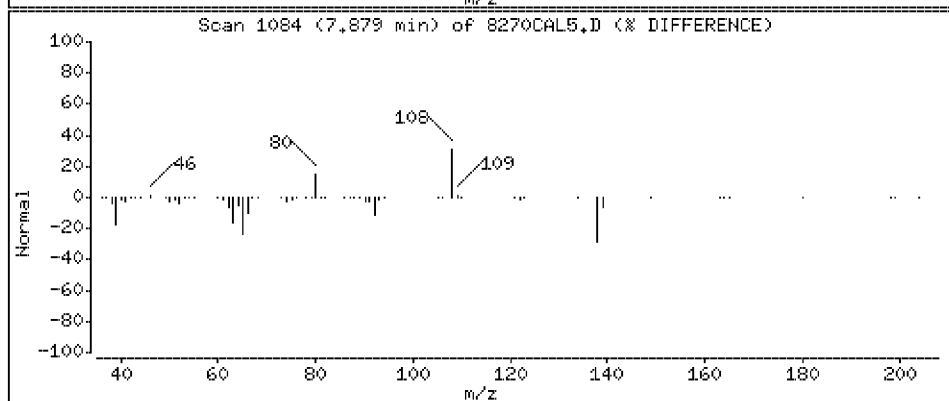
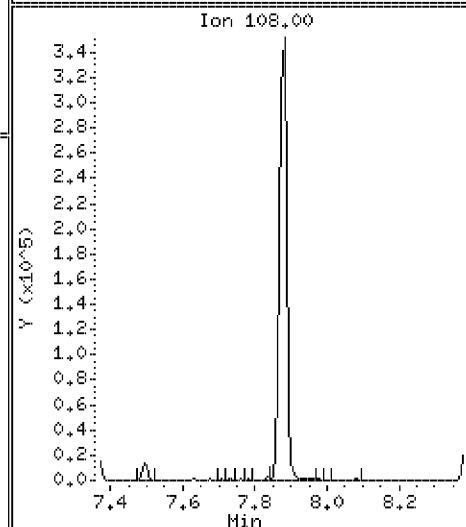
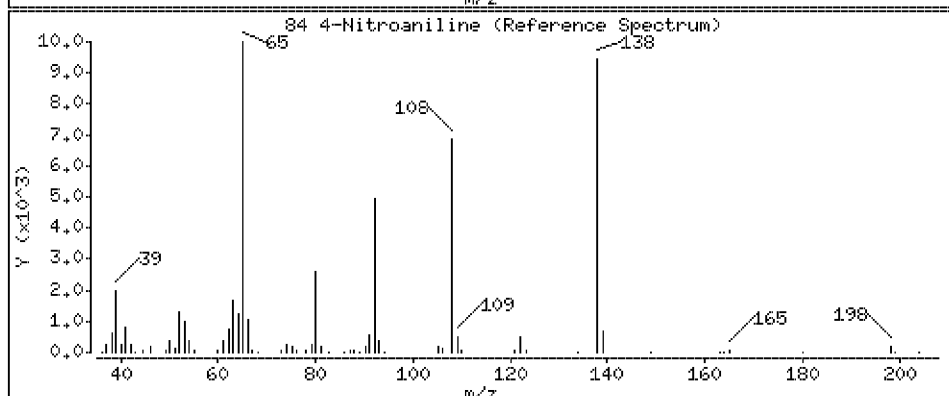
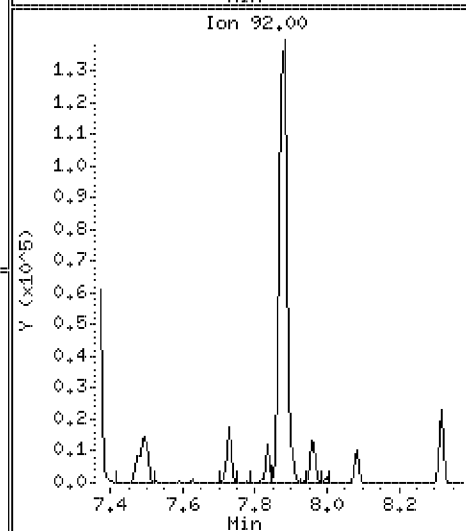
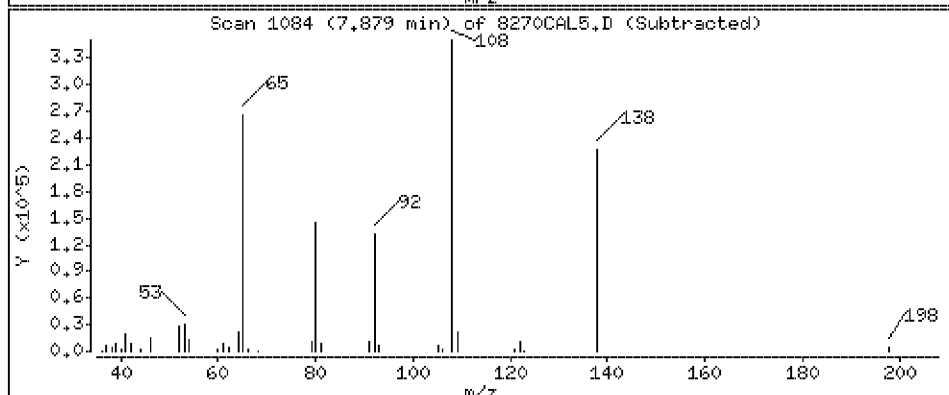
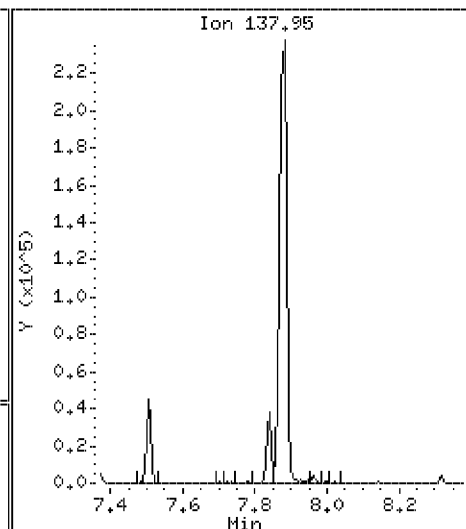
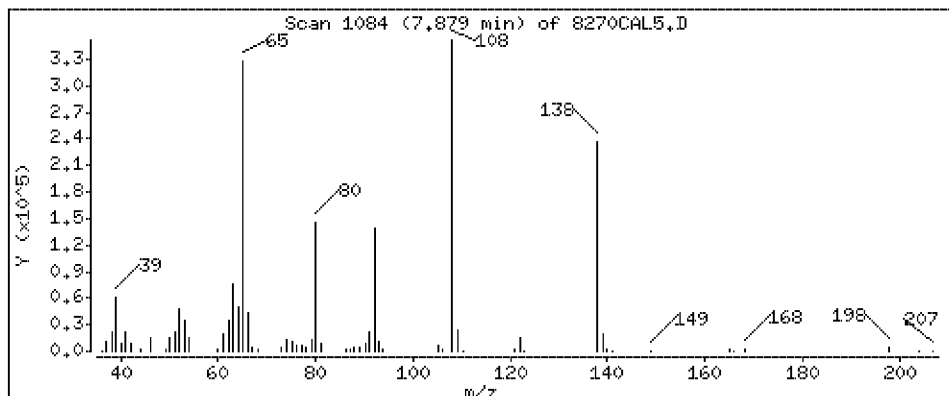
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

84 4-Nitroaniline

Concentration: 60.9 ug/l



Date: 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

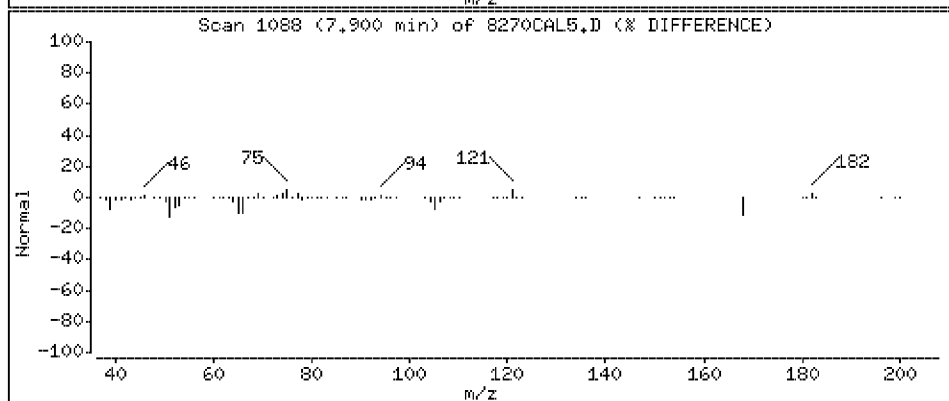
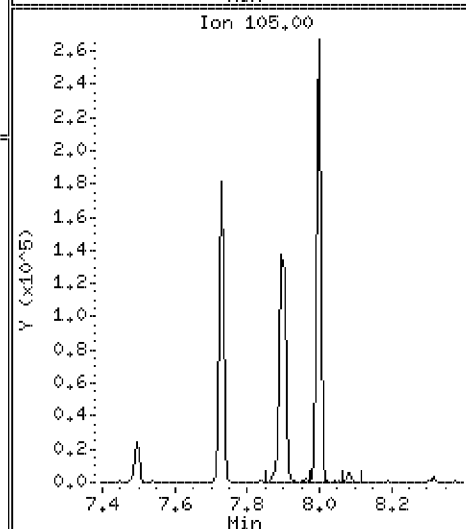
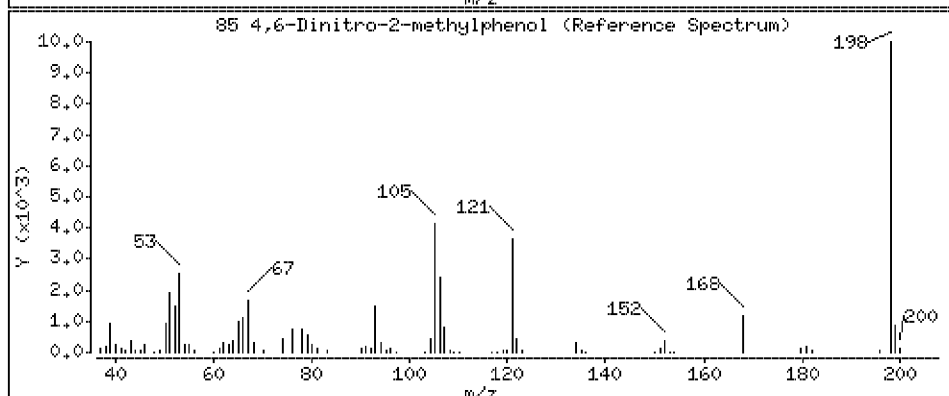
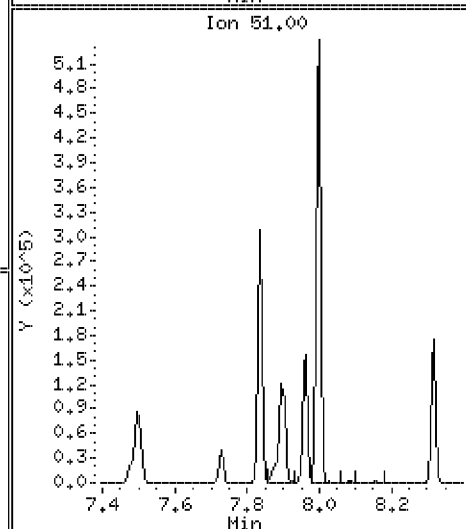
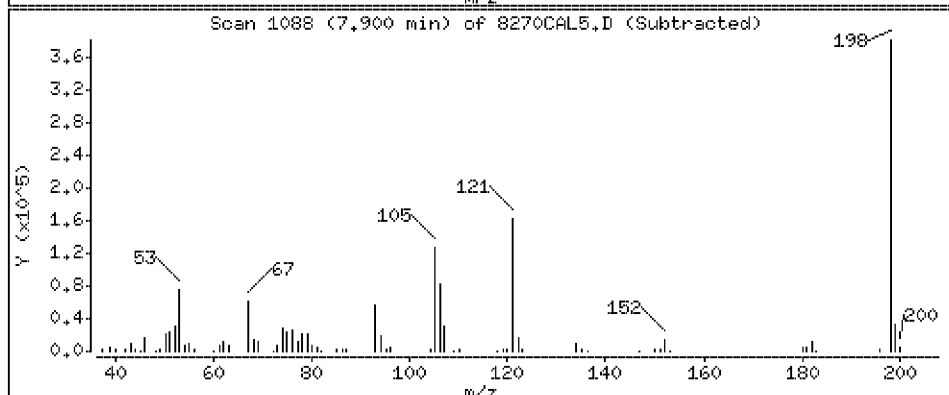
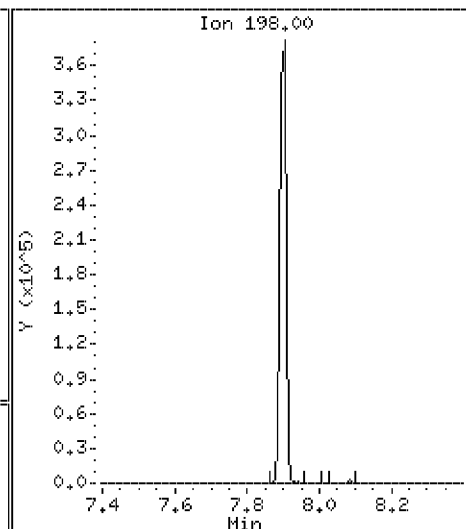
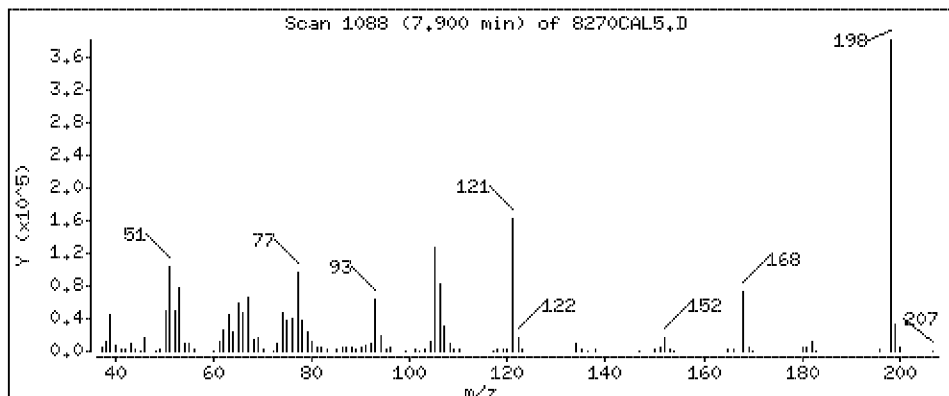
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

85 4,6-Dinitro-2-methylphenol

Concentration: 58.7 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

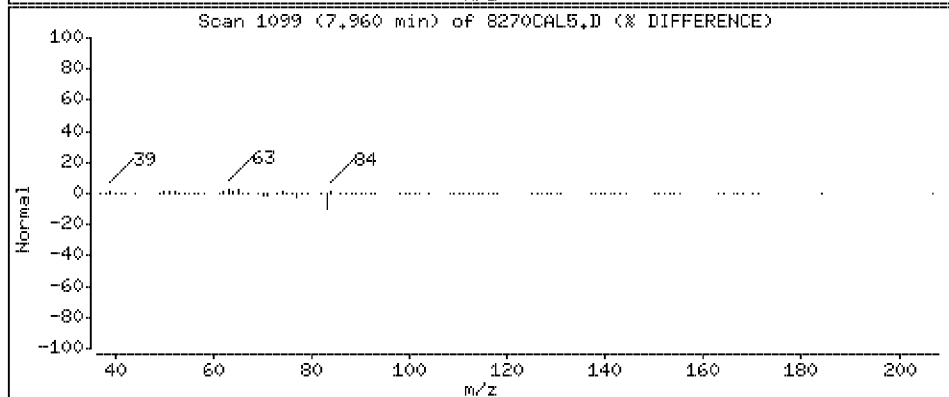
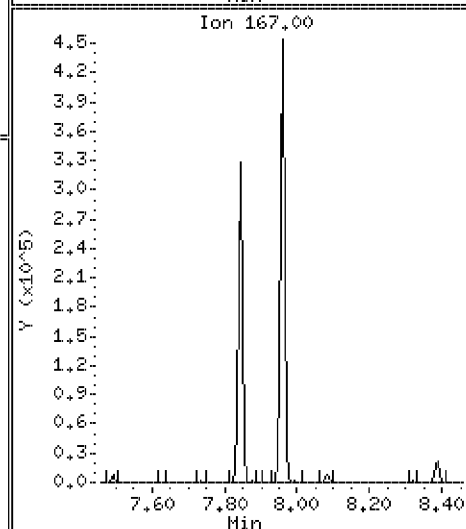
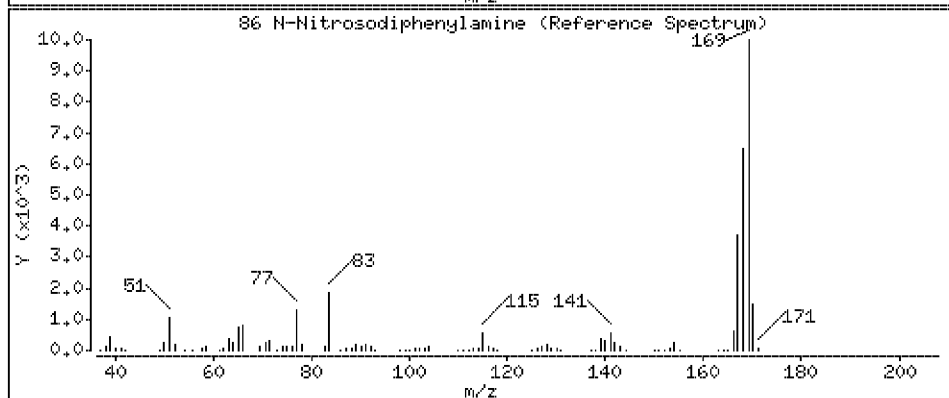
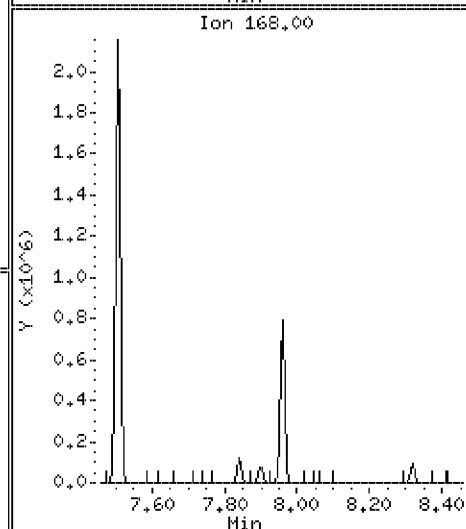
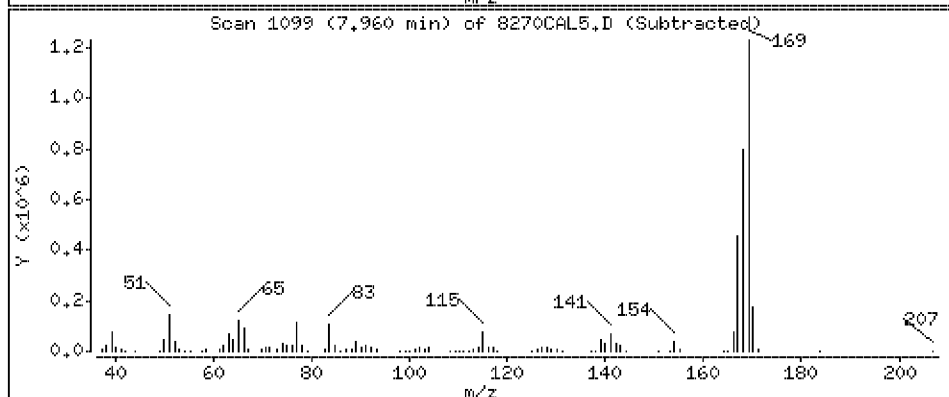
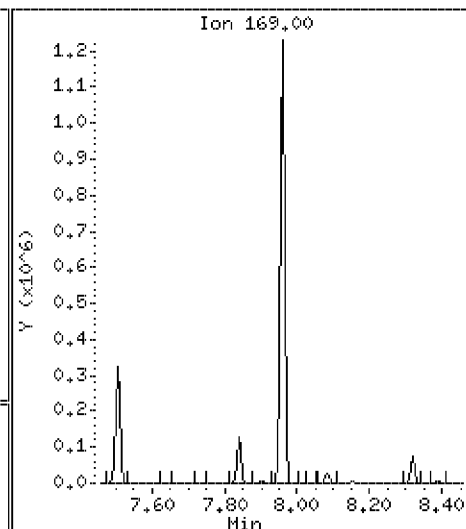
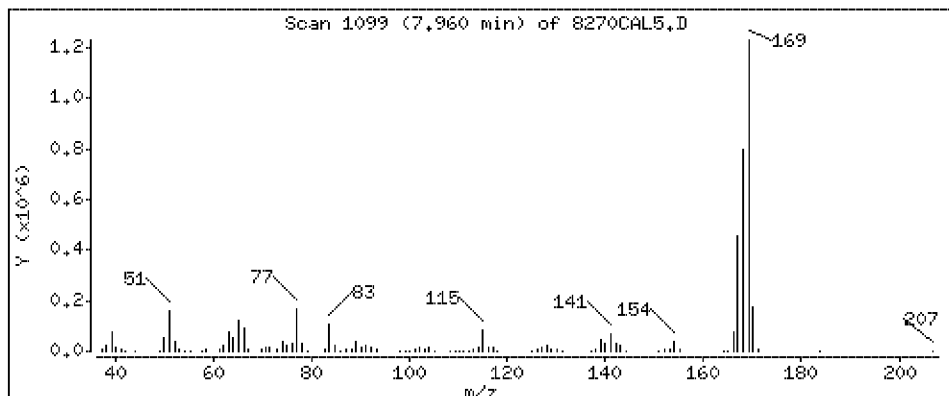
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

86 N-Nitrosodiphenylamine

Concentration: 60.0 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

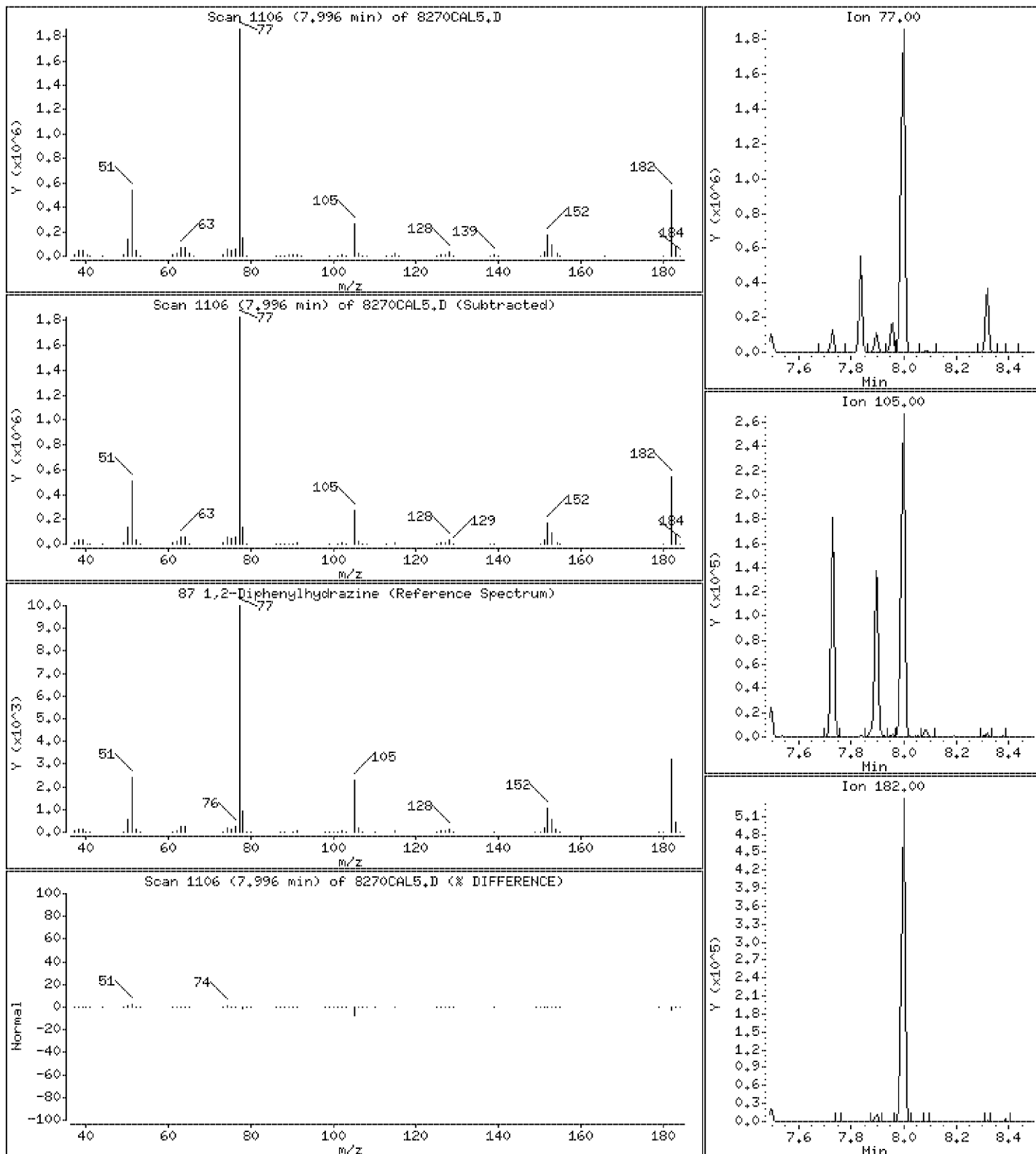
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

87 1,2-Diphenylhydrazine

Concentration: 60.6 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

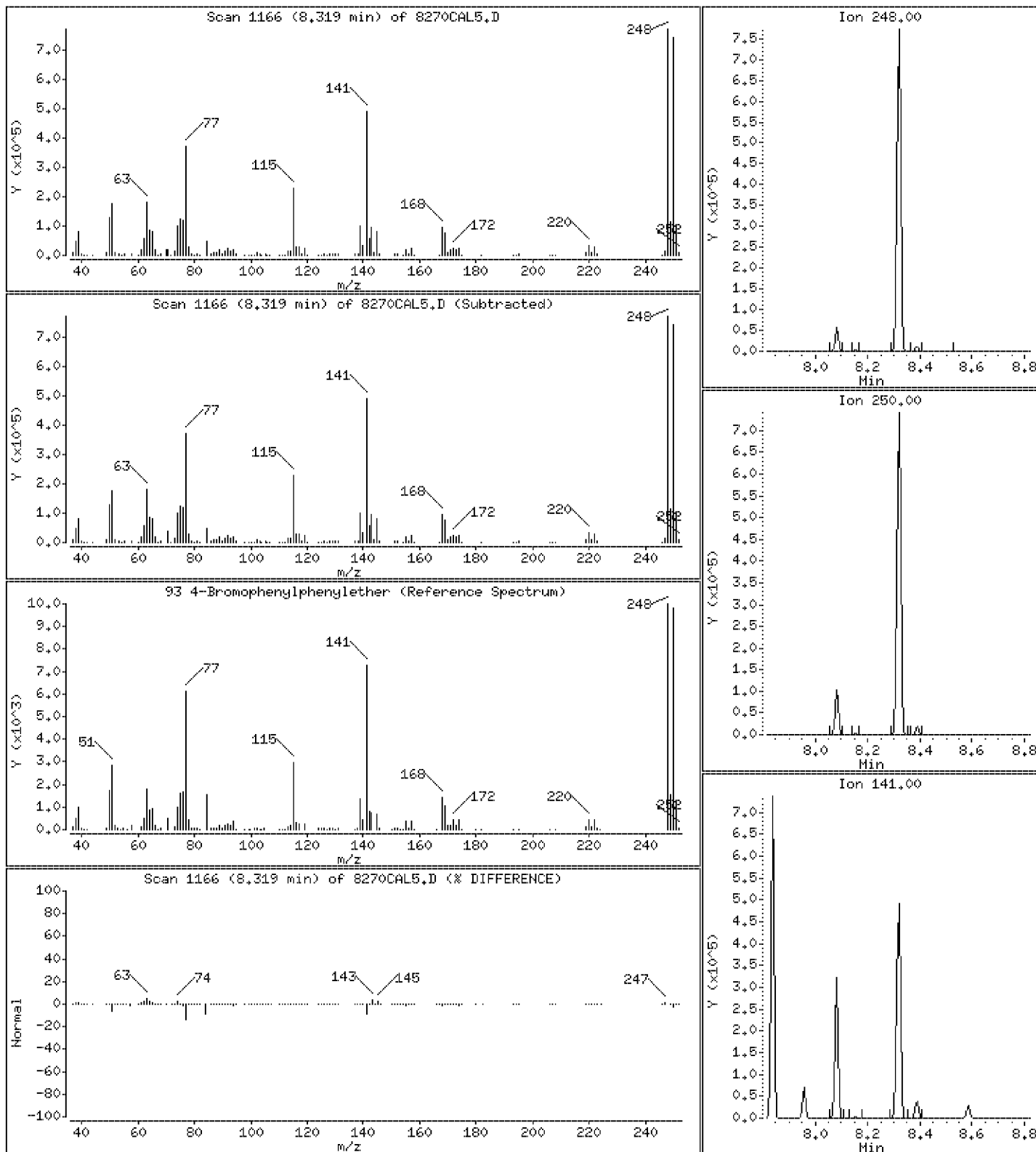
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

93 4-Bromophenylphenylether

Concentration: 61.2 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

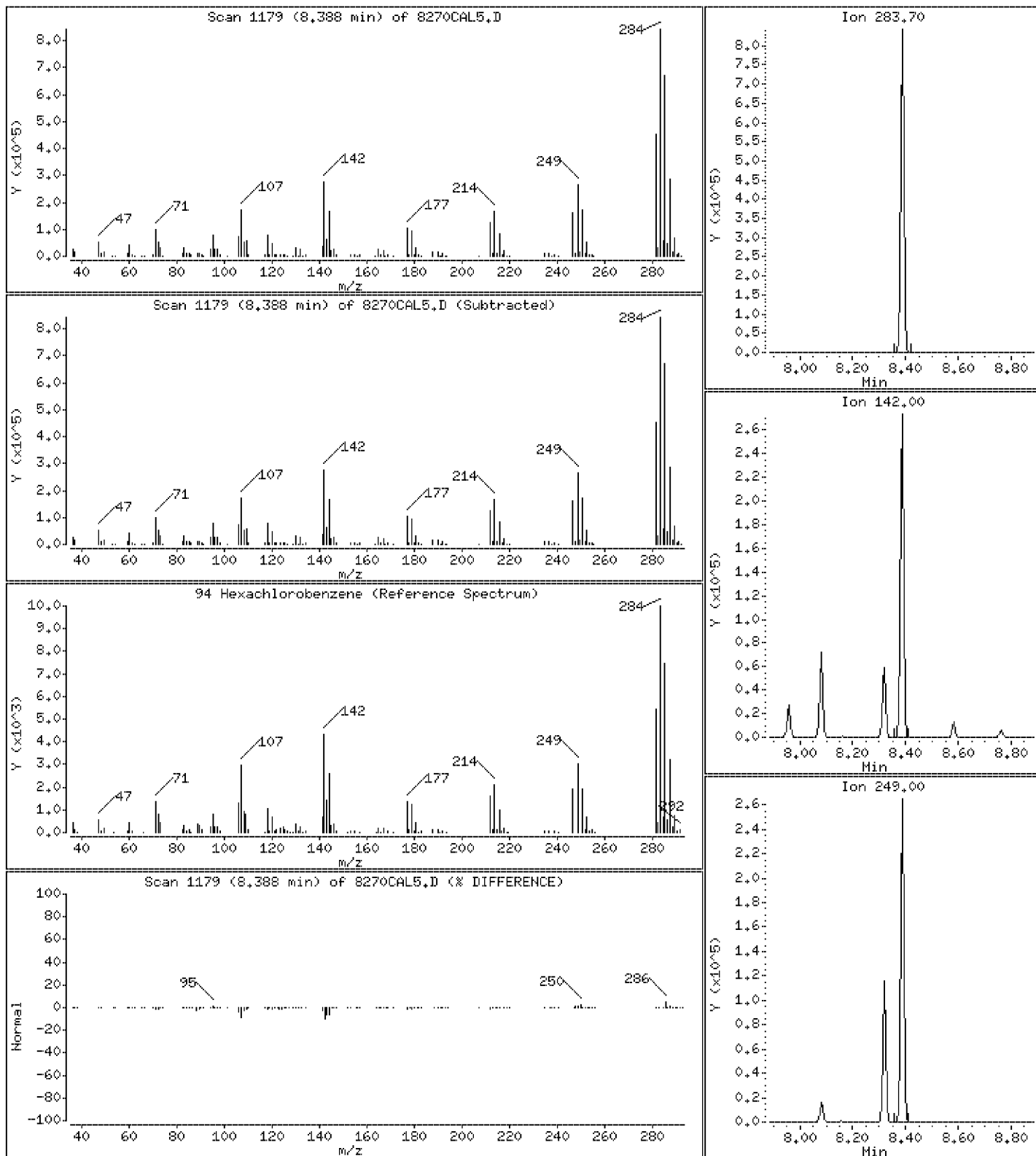
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

94 Hexachlorobenzene

Concentration: 62.1 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

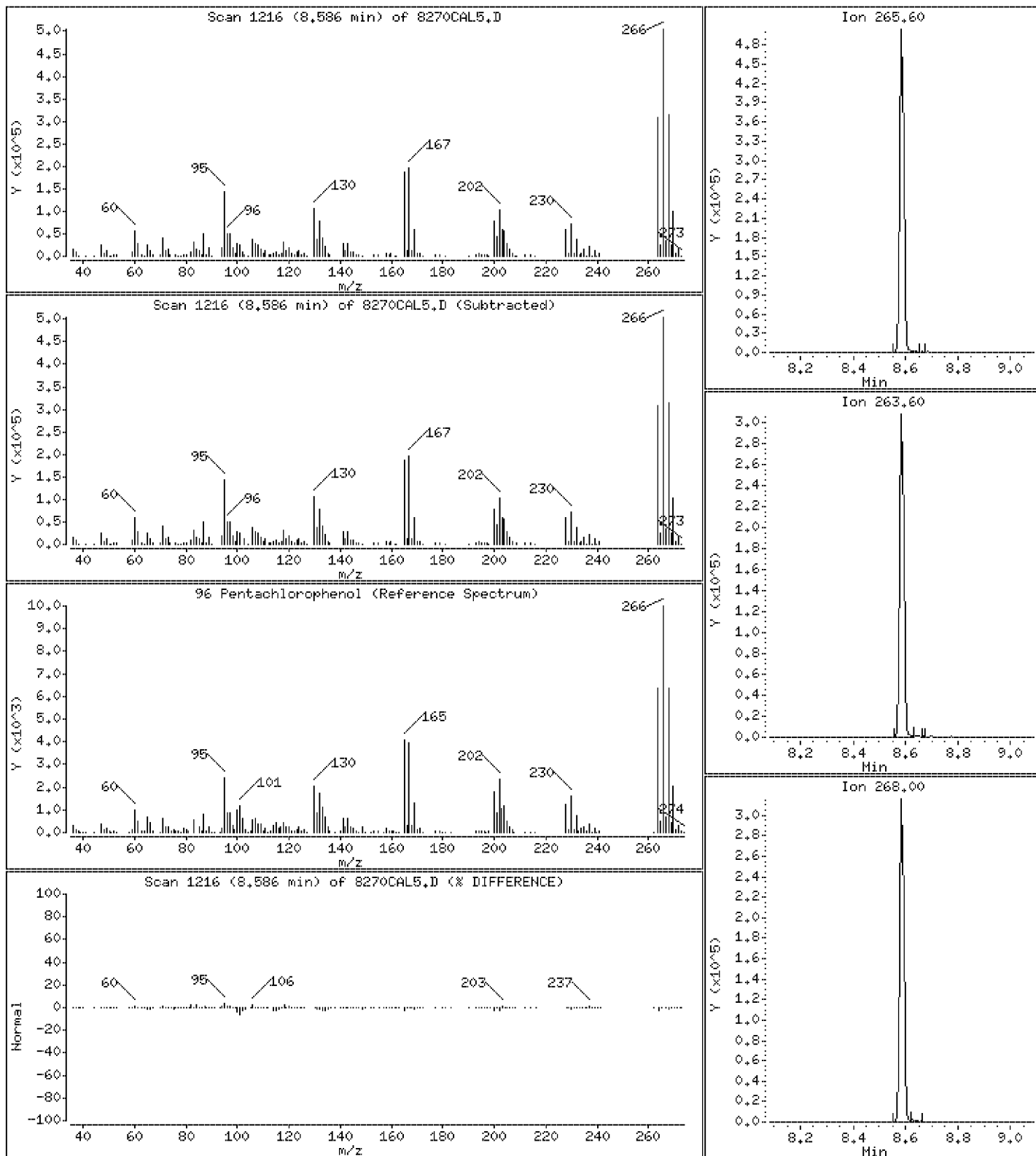
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

96 Pentachlorophenol

Concentration: 63.7 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

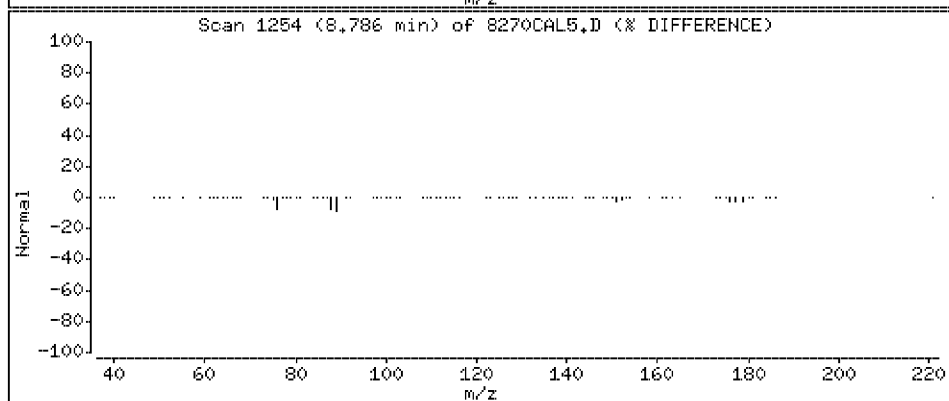
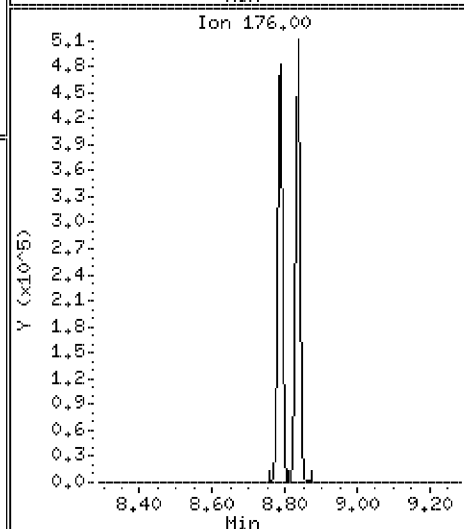
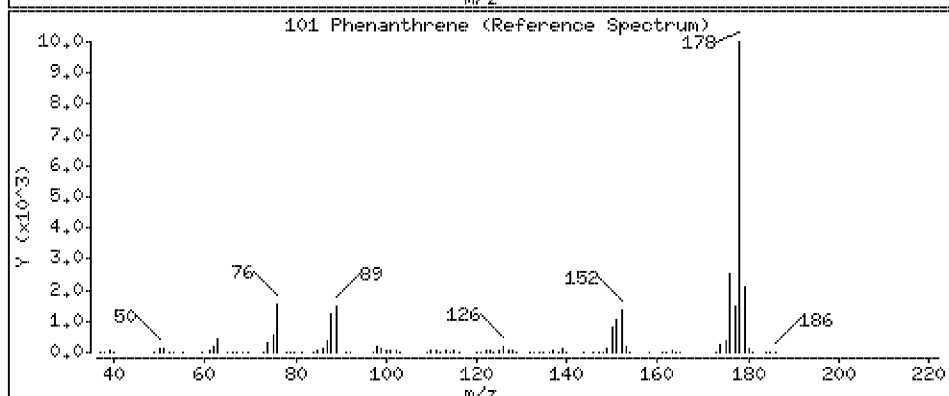
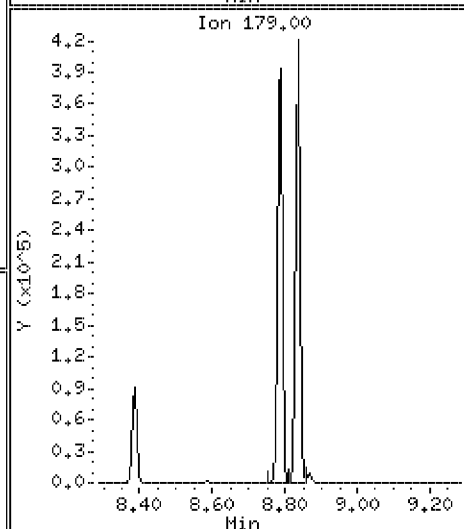
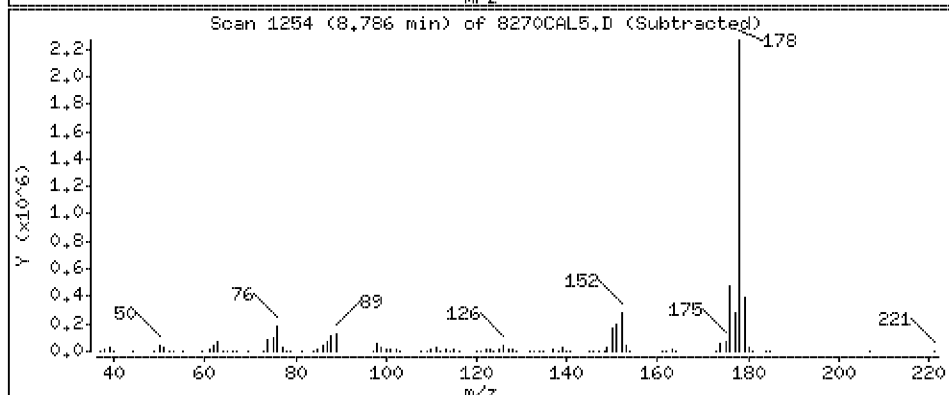
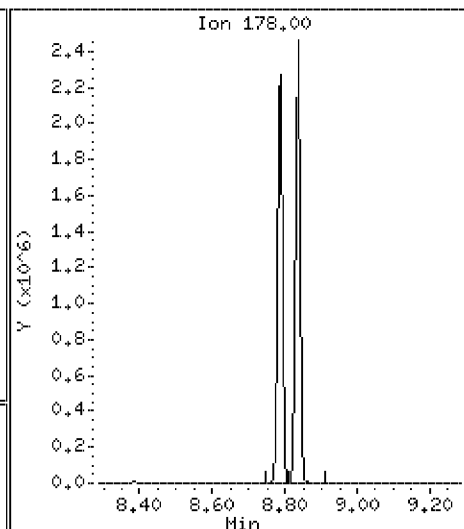
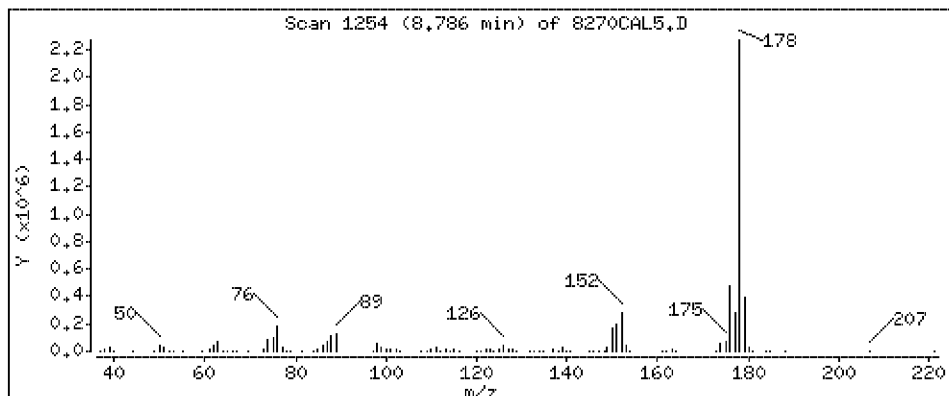
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

101 Phenanthrene

Concentration: 60.4 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

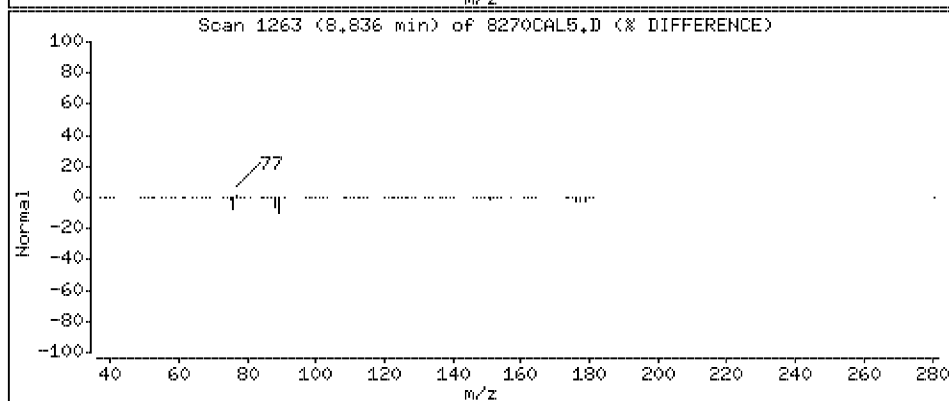
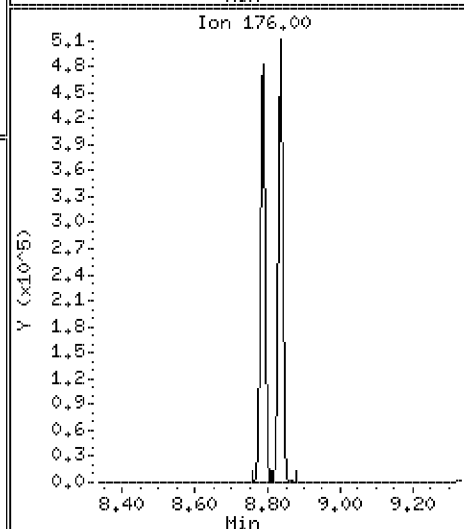
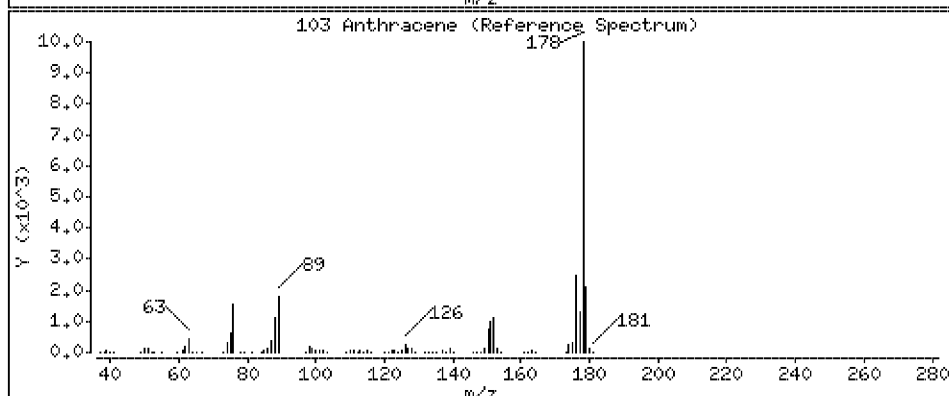
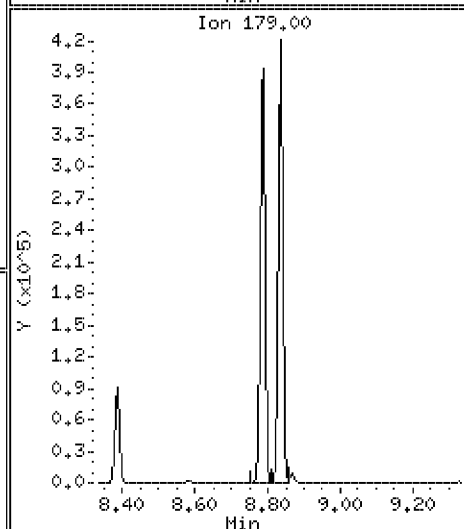
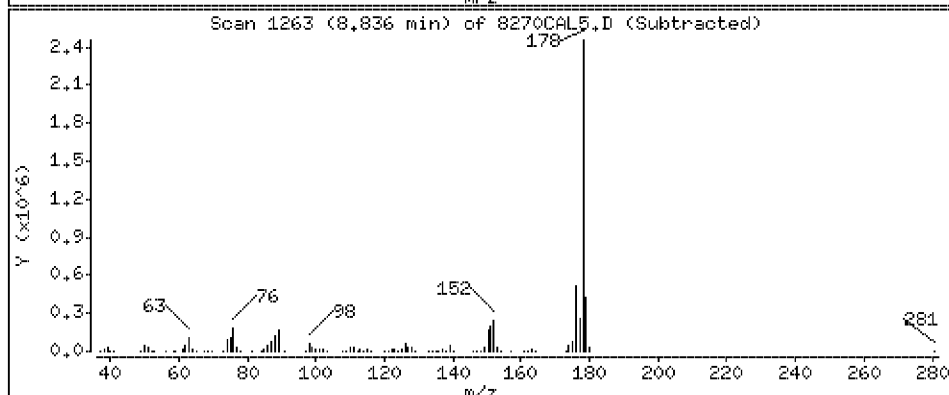
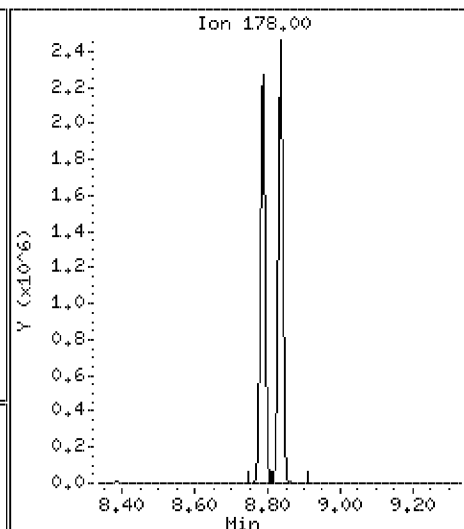
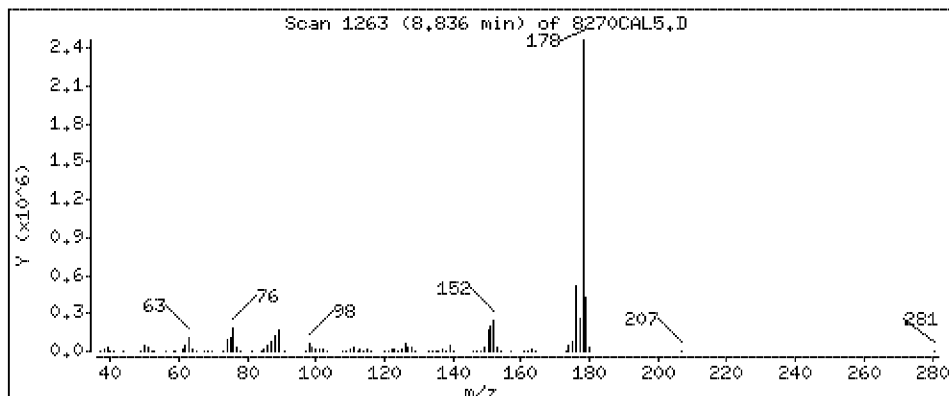
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

103 Anthracene

Concentration: 61.8 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

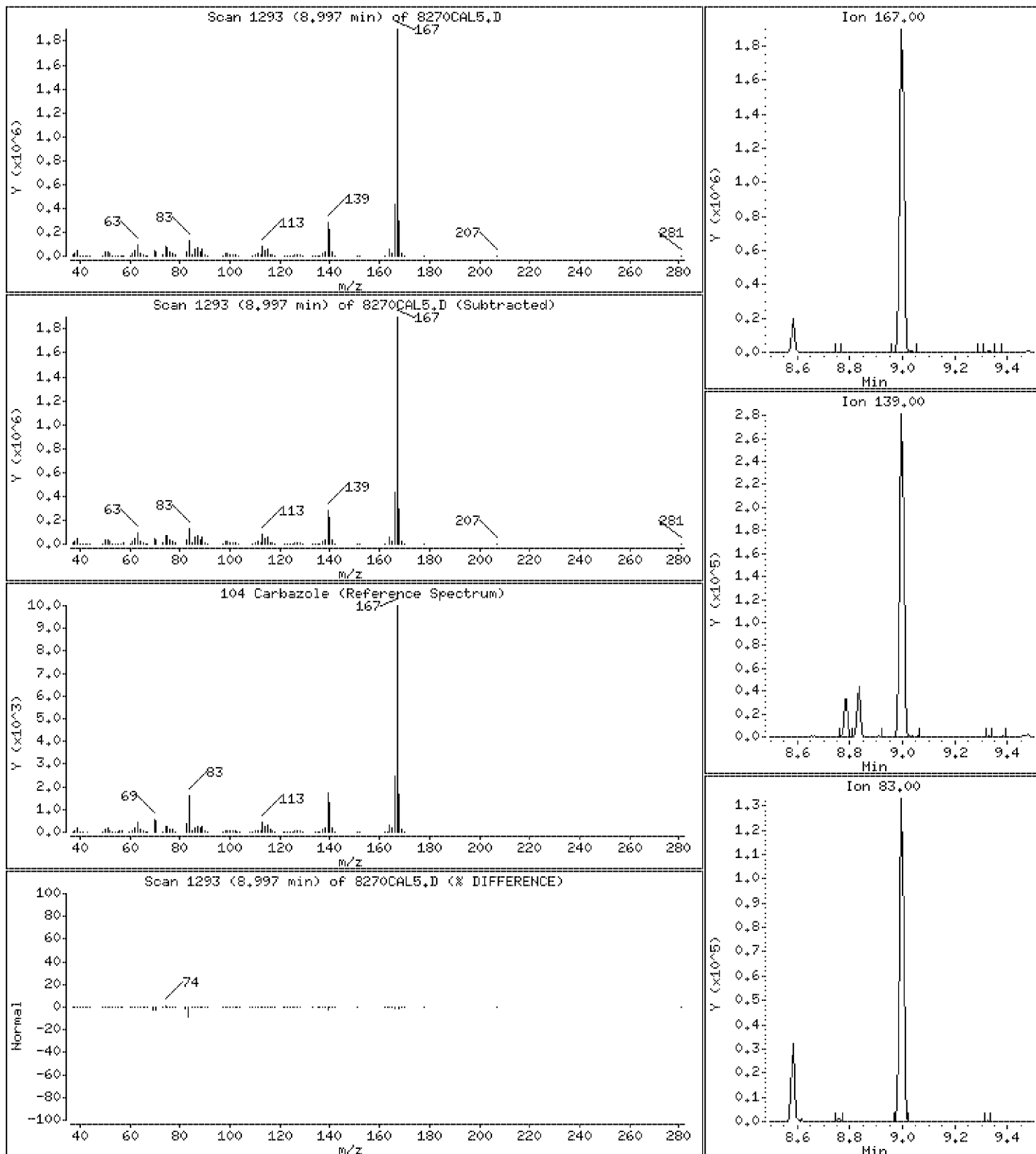
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

104 Carbazole

Concentration: 59.5 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

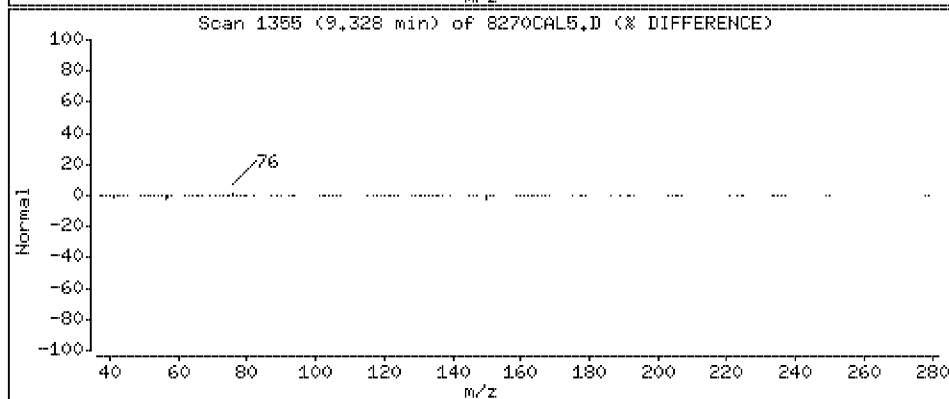
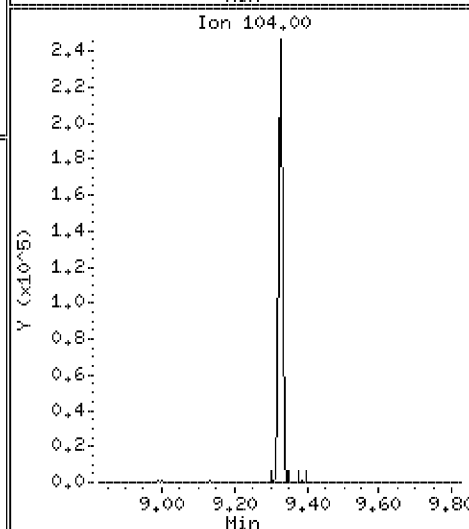
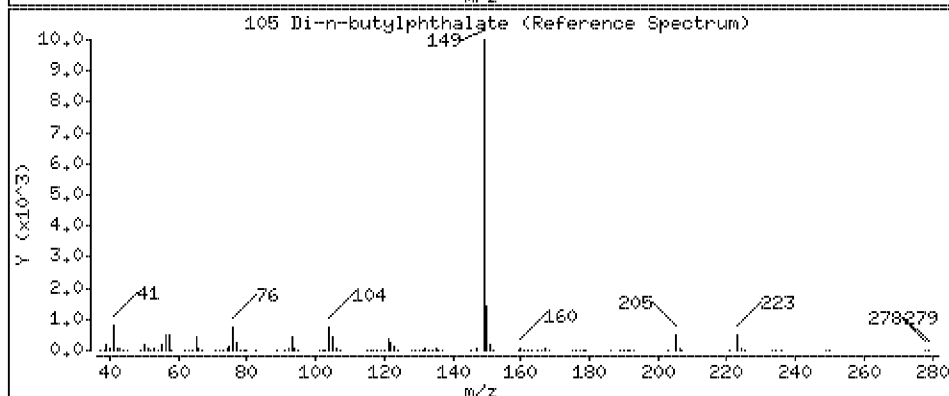
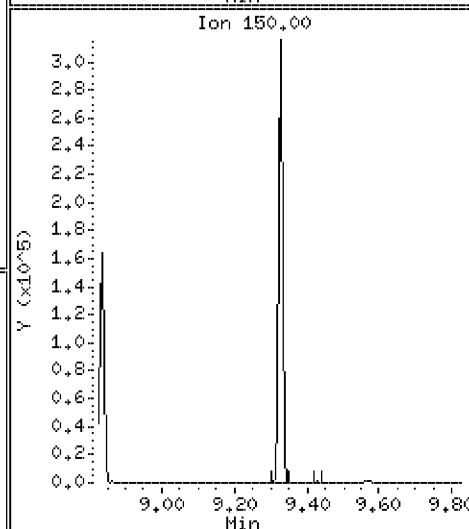
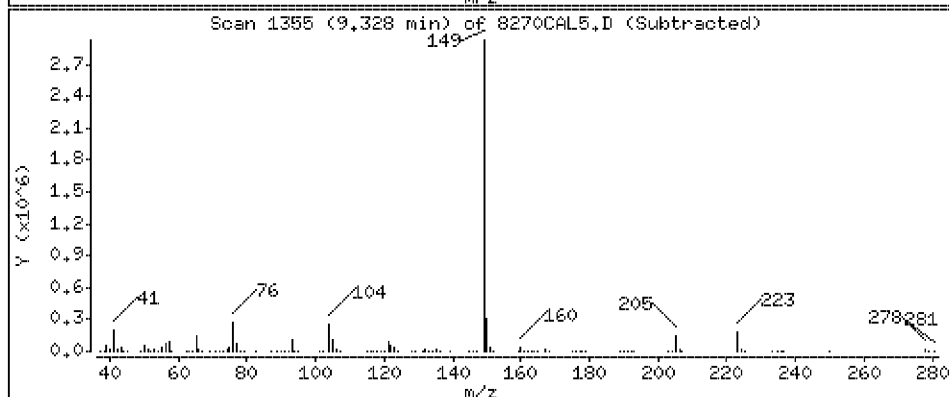
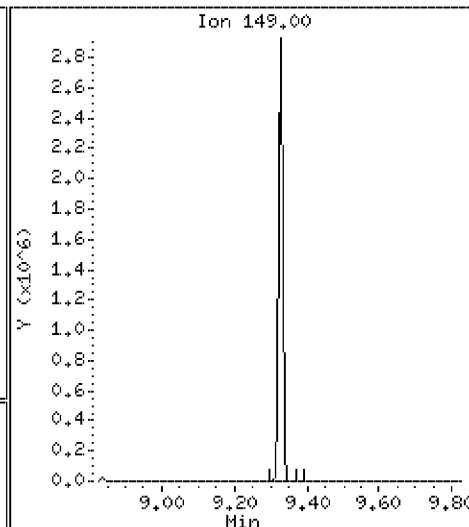
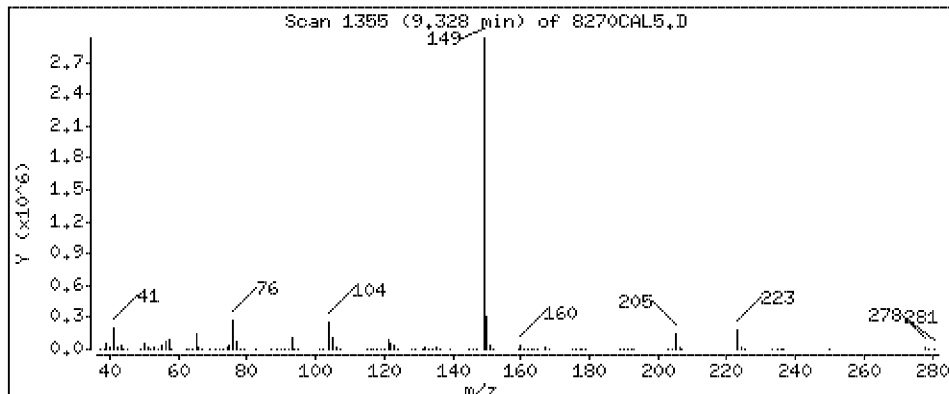
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

105 Di-n-butylphthalate

Concentration: 61.8 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

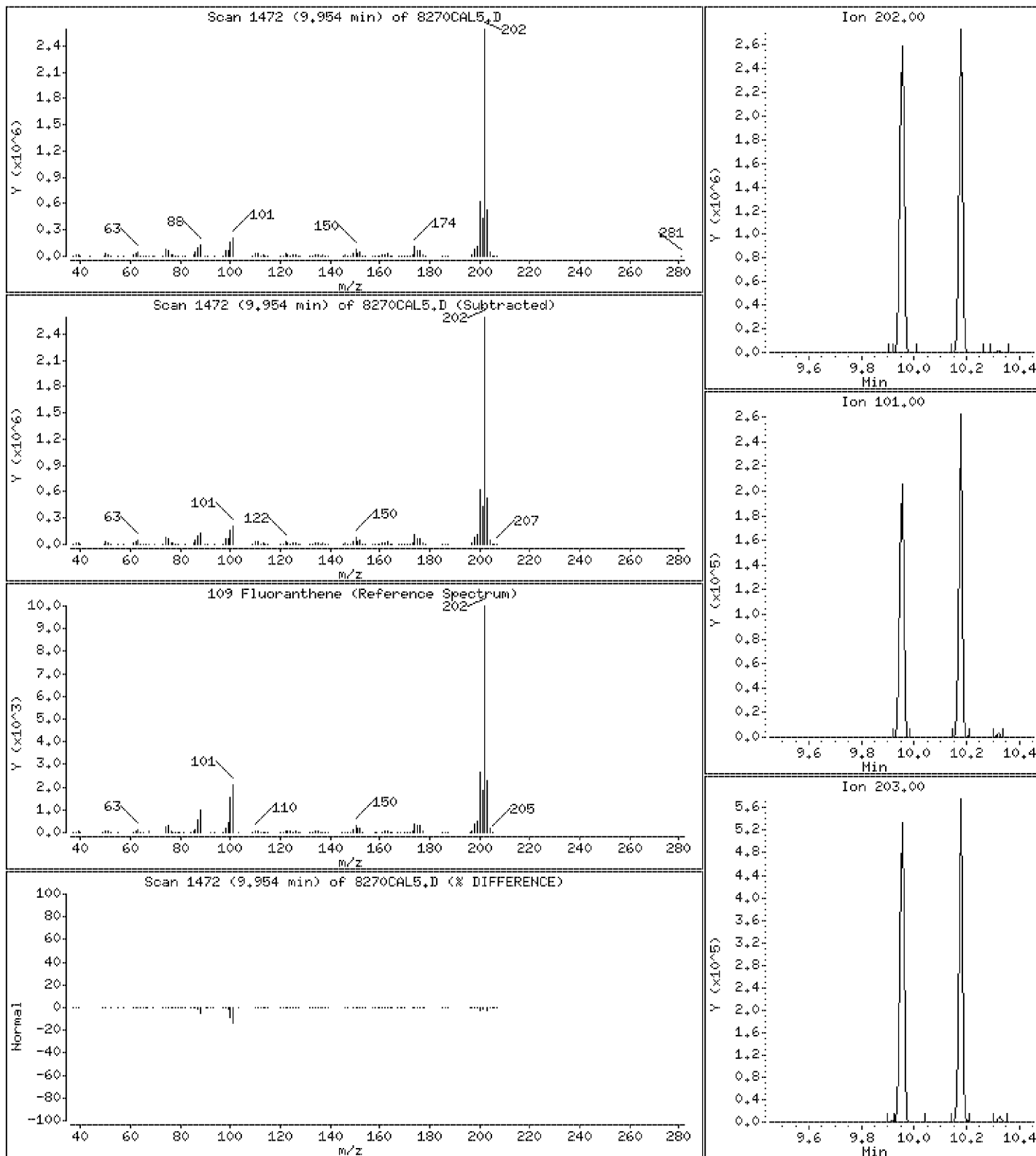
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

109 Fluoranthene

Concentration: 59.6 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

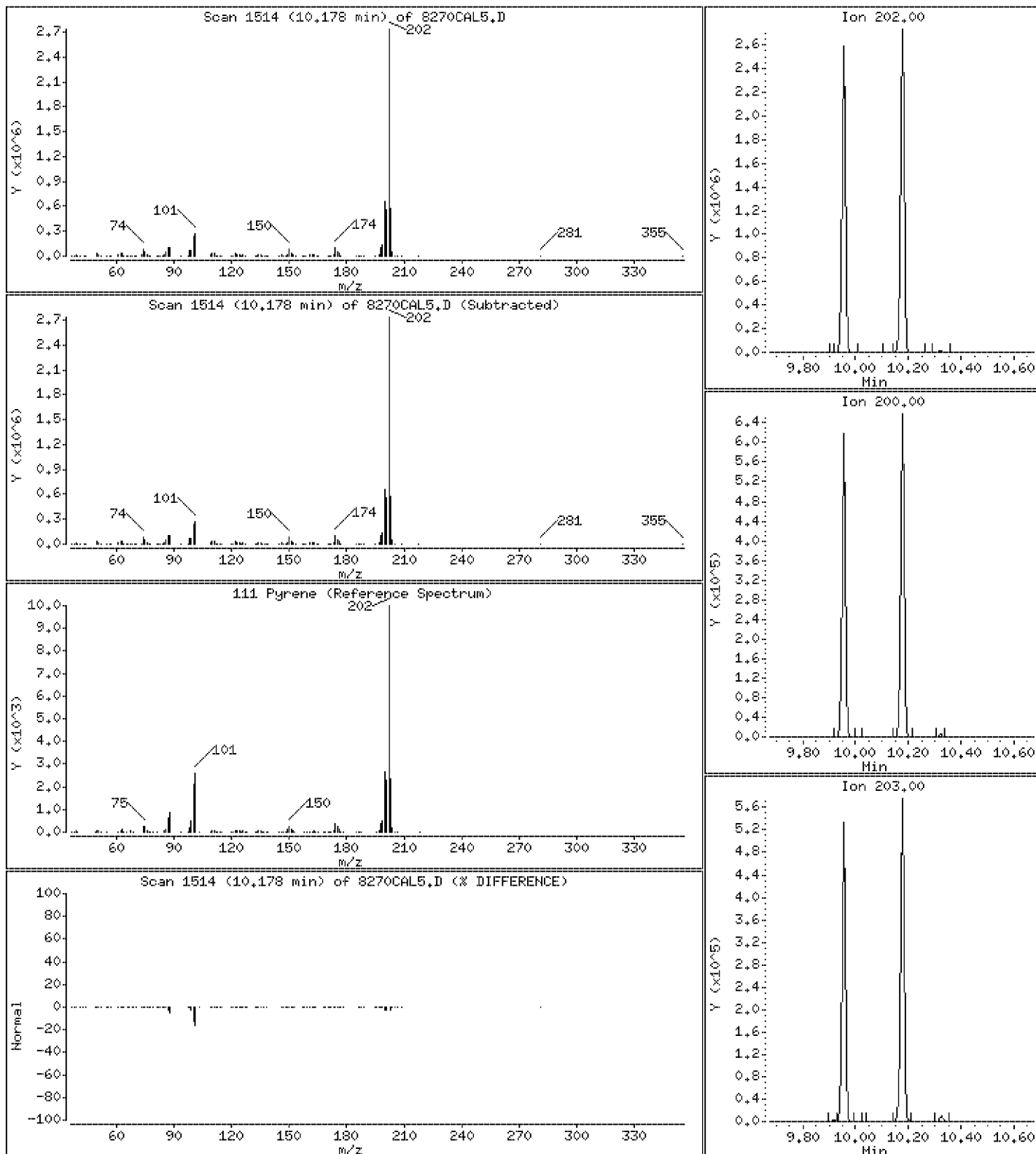
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

111 Pyrene

Concentration: 55.7 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

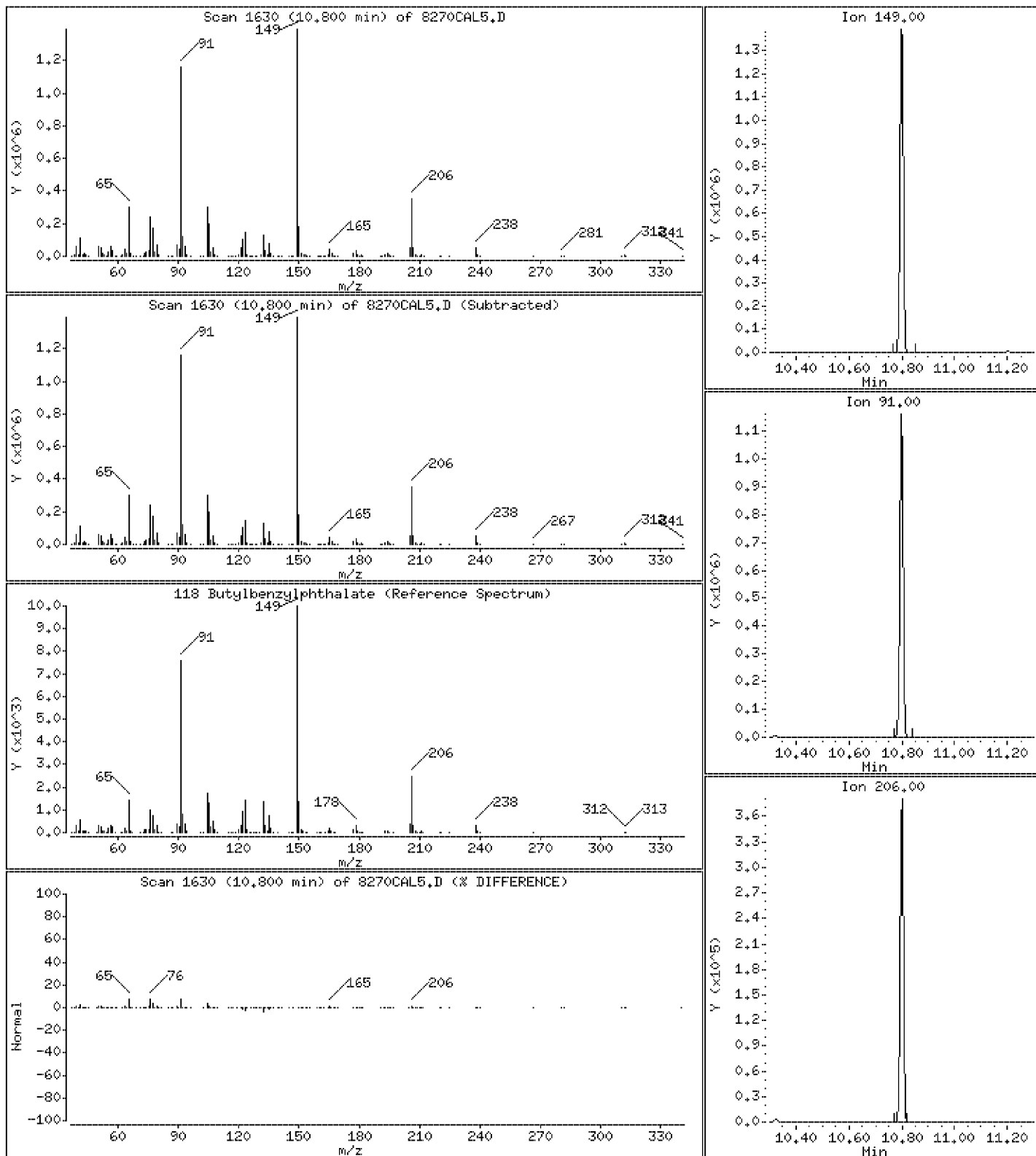
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

118 Butylbenzylphthalate

Concentration: 59.8 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

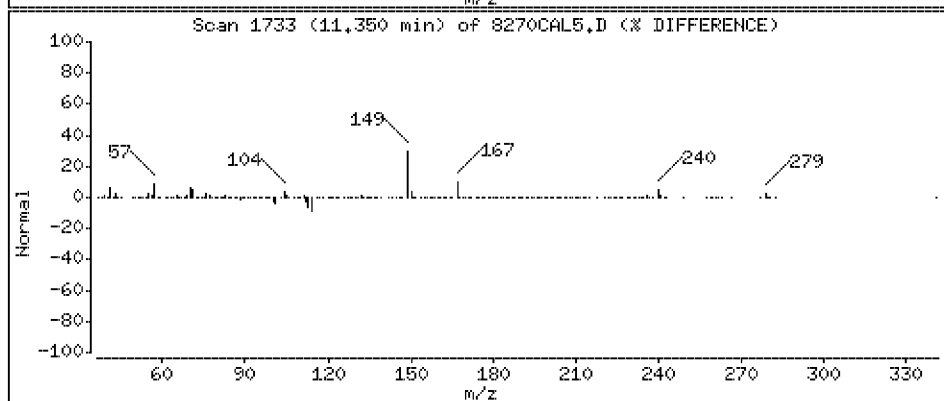
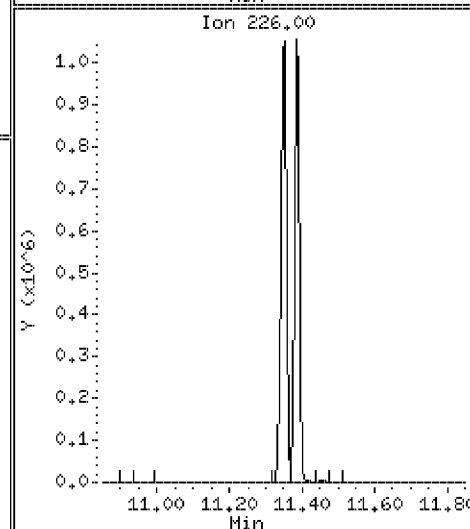
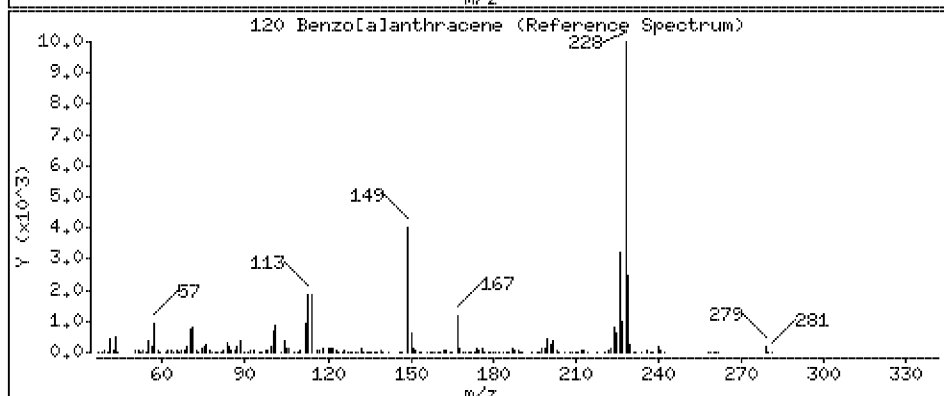
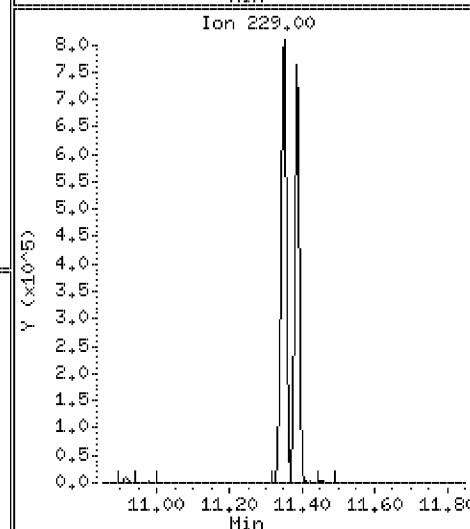
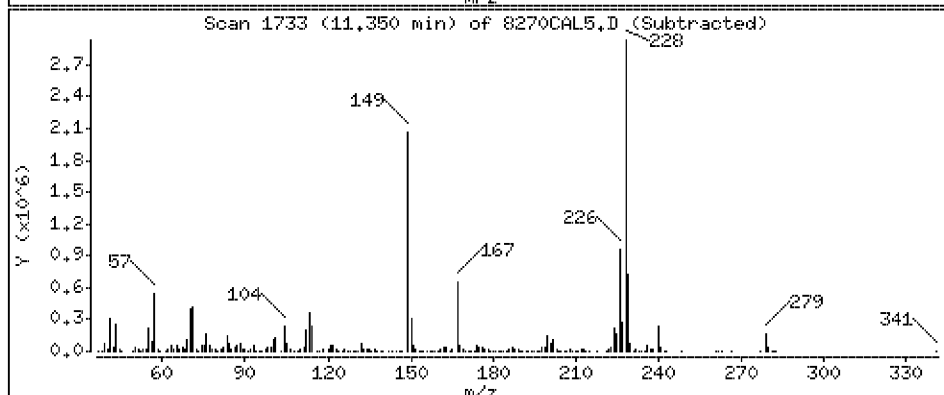
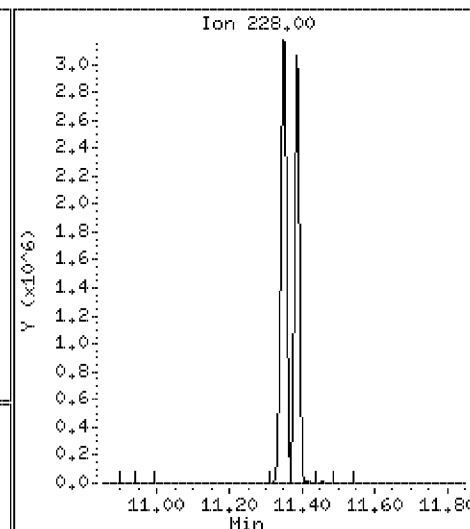
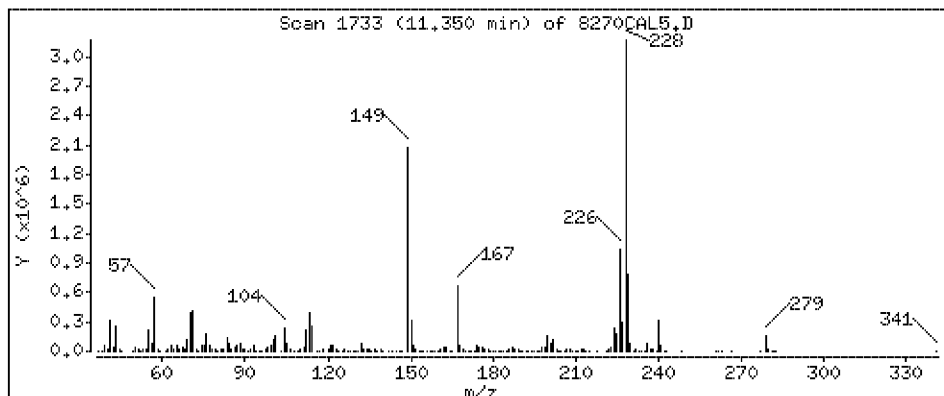
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

120 Benzo[*a*]anthracene

Concentration: 59.9 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

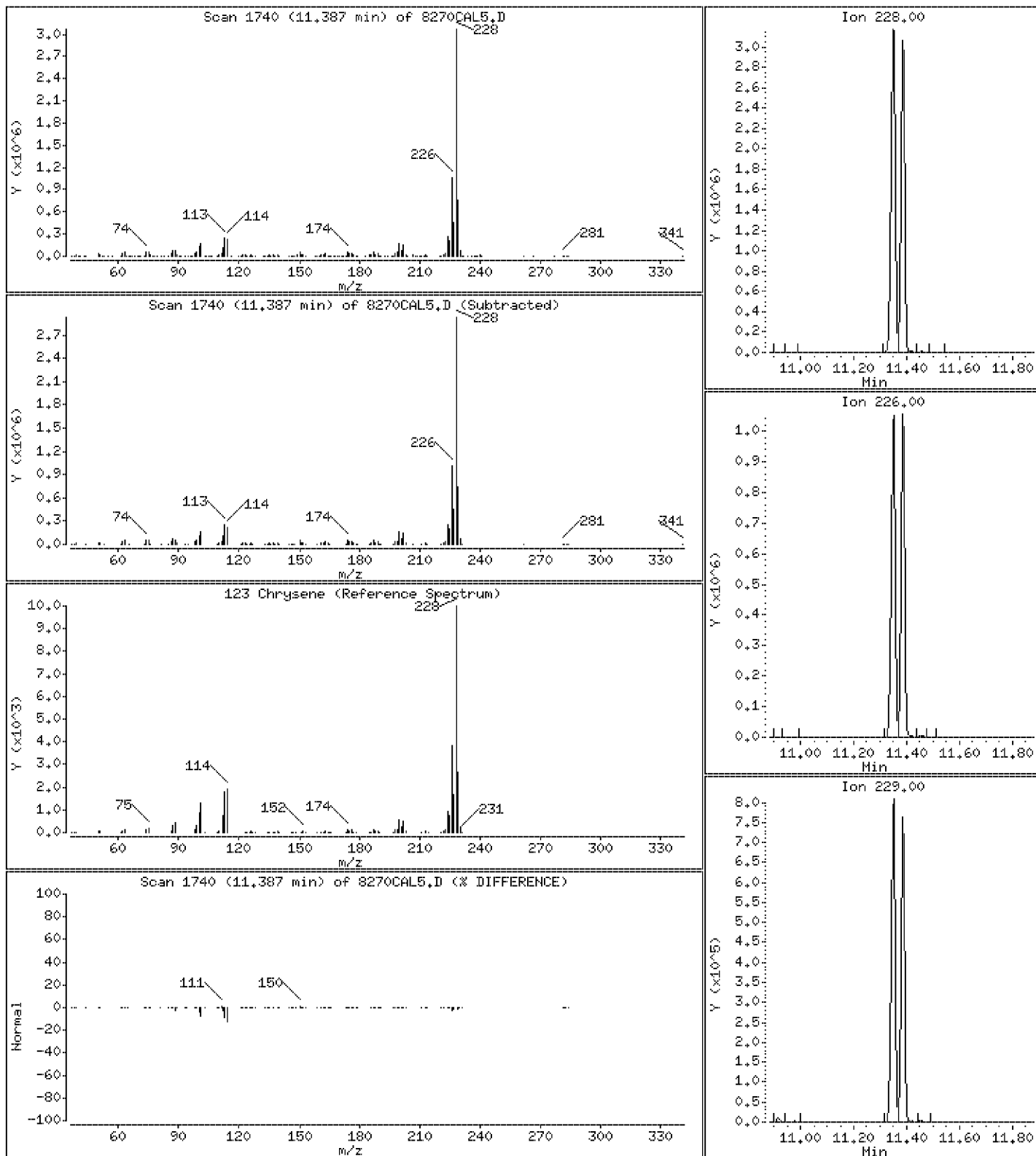
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

123 Chrysene

Concentration: 56.4 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

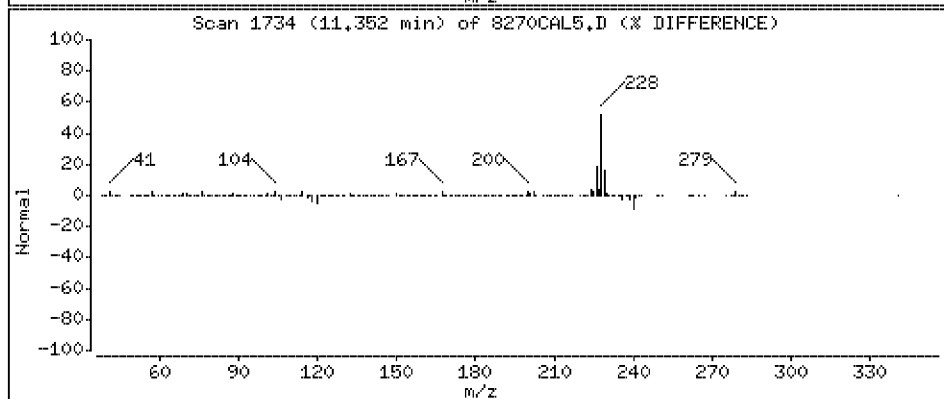
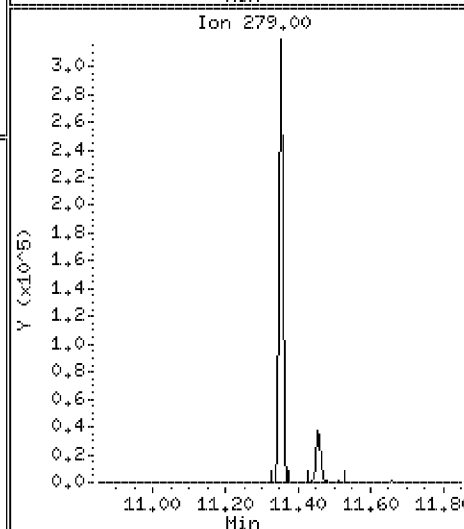
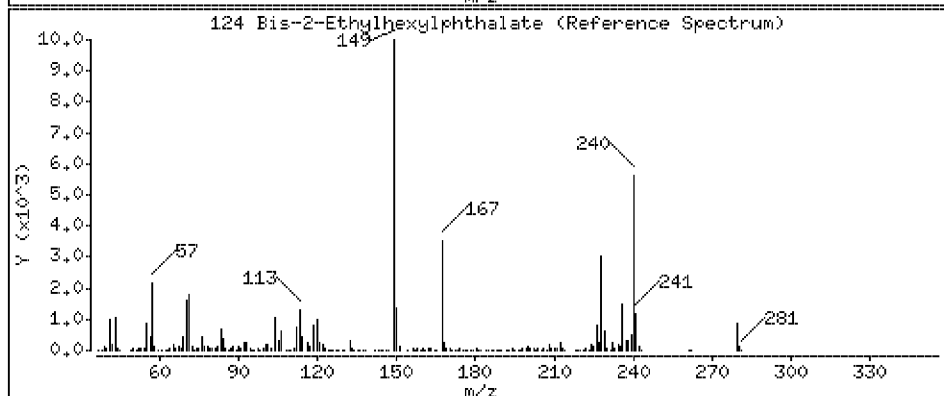
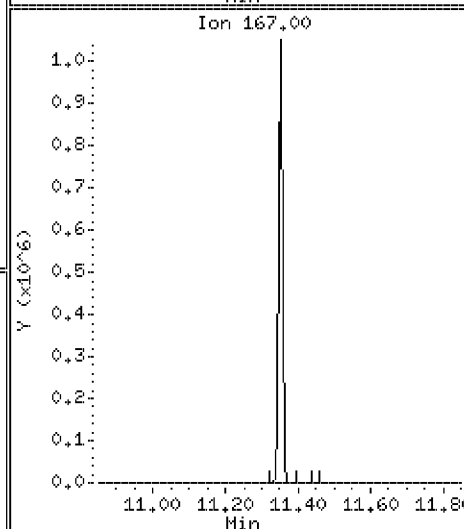
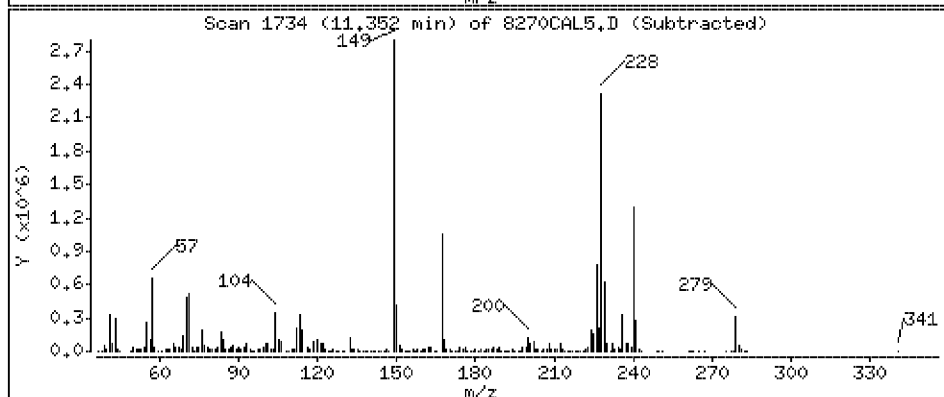
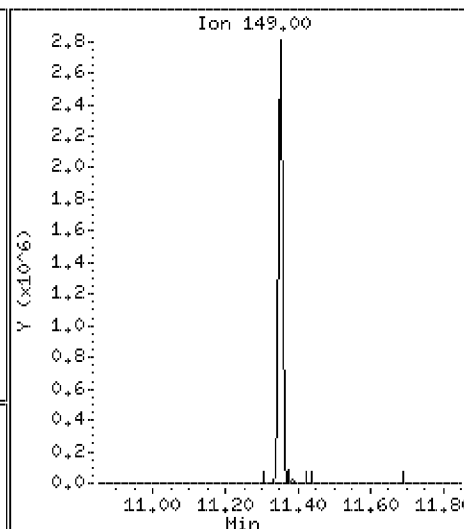
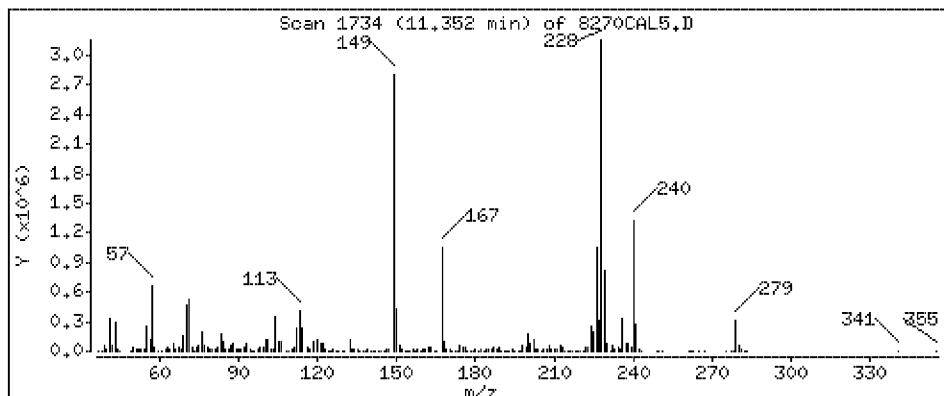
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

124 Bis-2-Ethylhexylphthalate

Concentration: 62.6 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

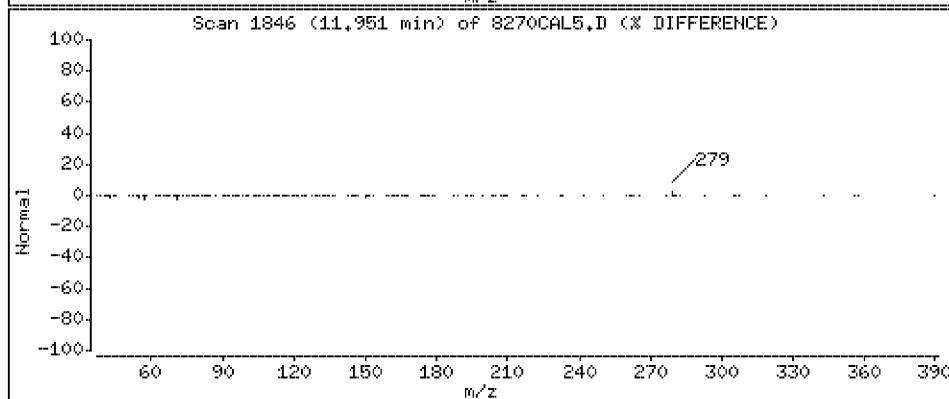
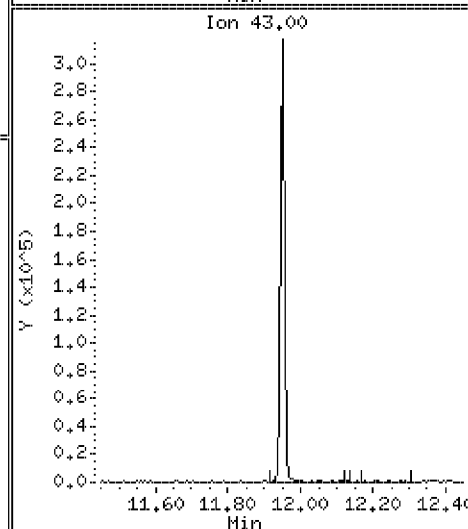
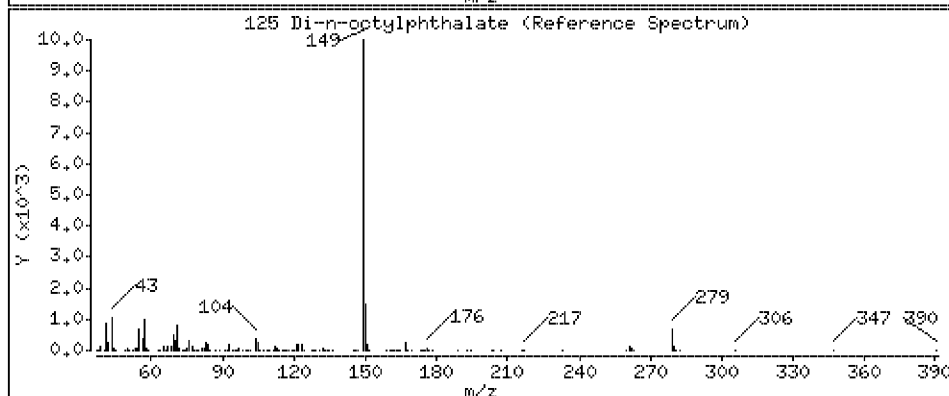
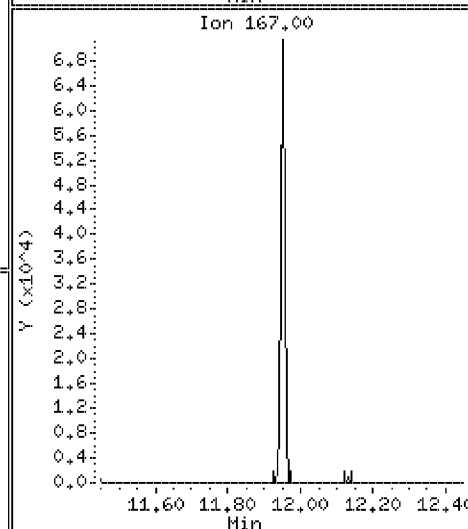
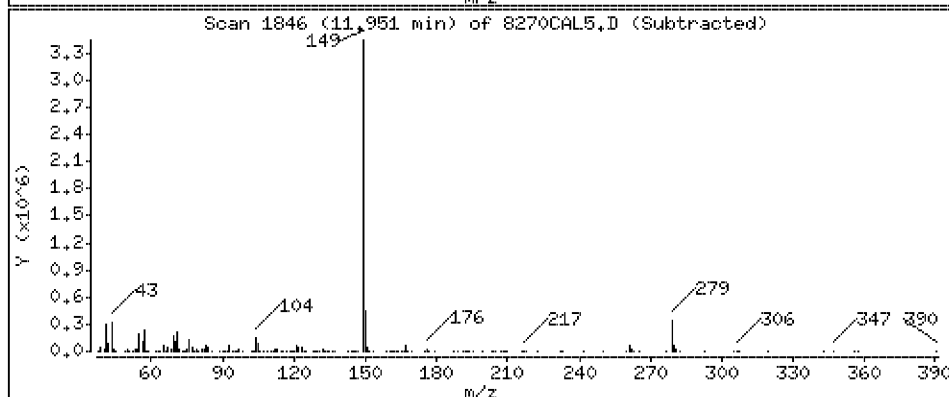
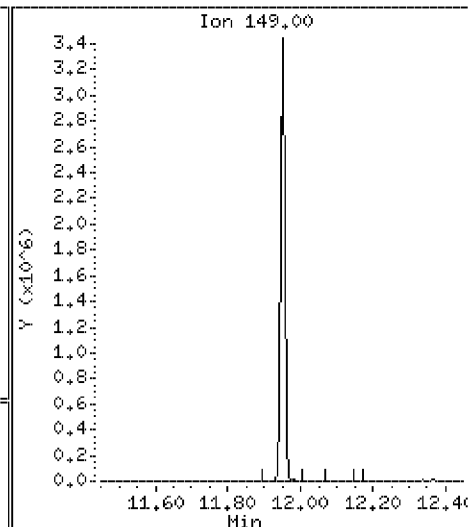
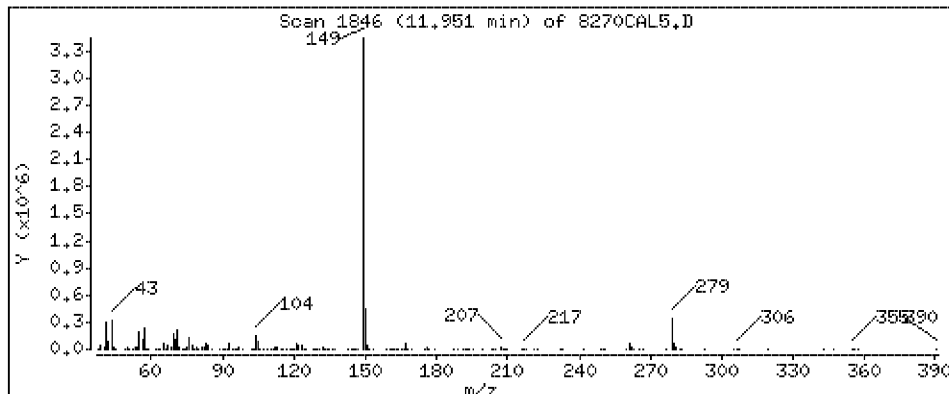
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

125 Di-n-octylphthalate

Concentration: 63.8 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

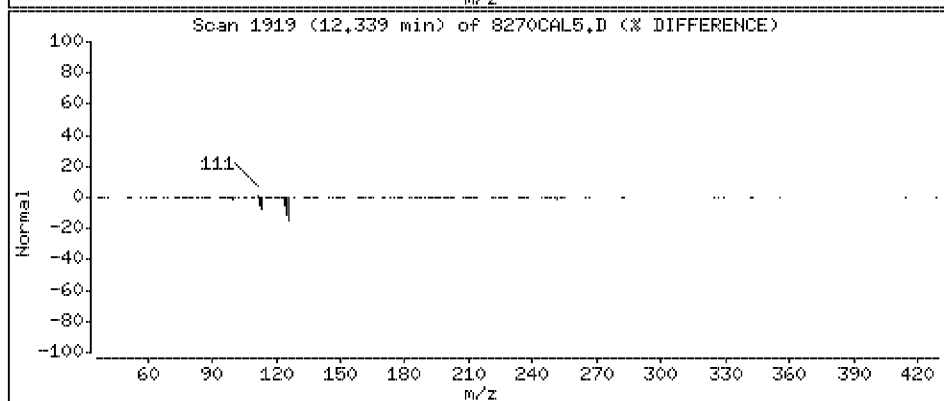
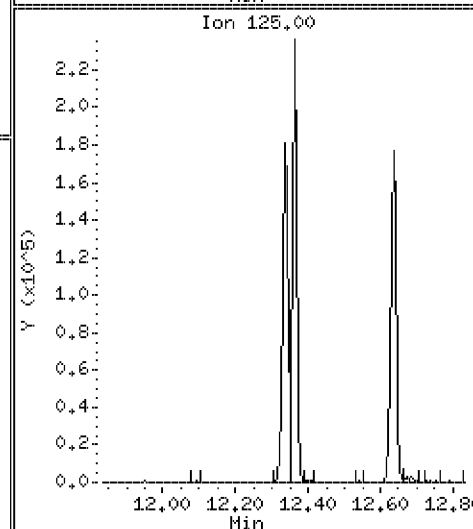
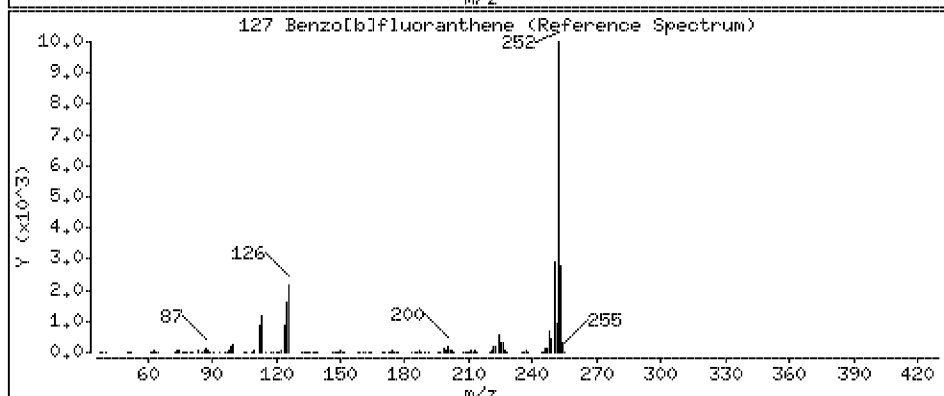
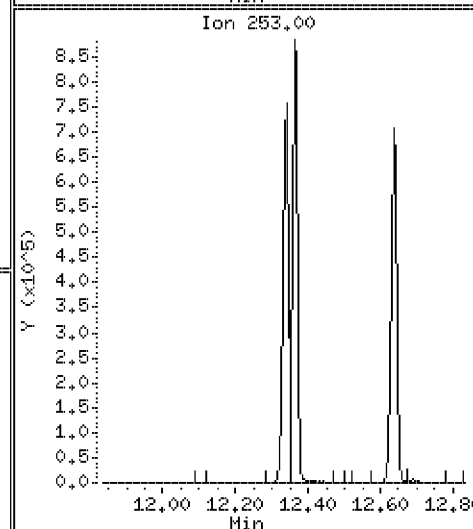
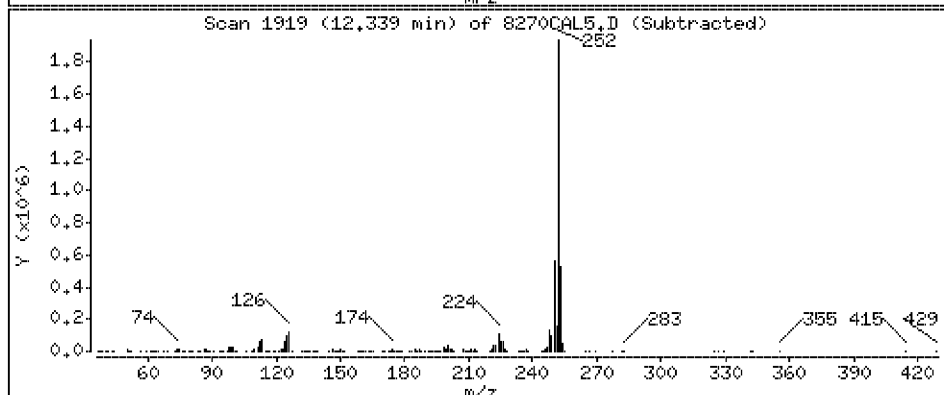
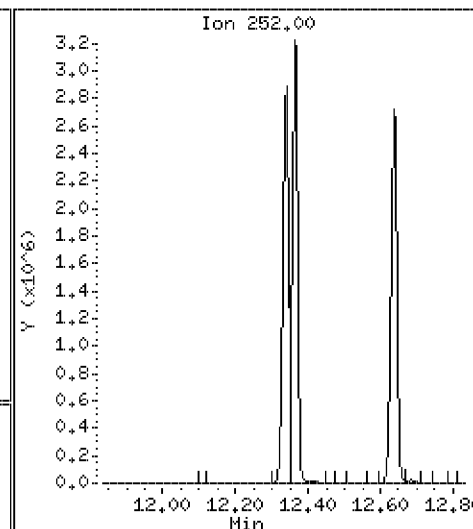
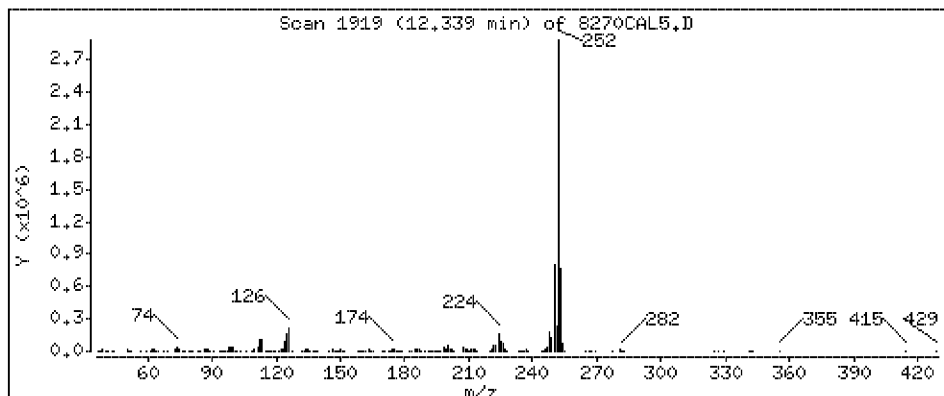
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

127 Benzo[b]fluoranthene

Concentration: 60,5 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

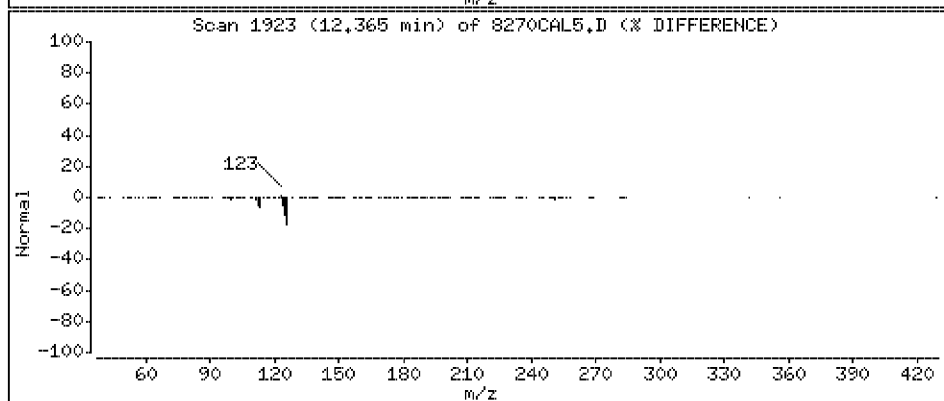
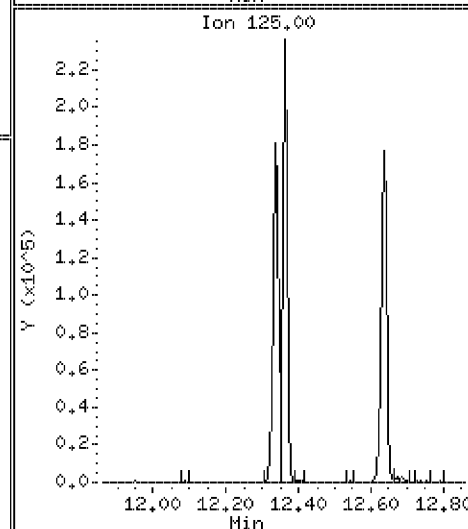
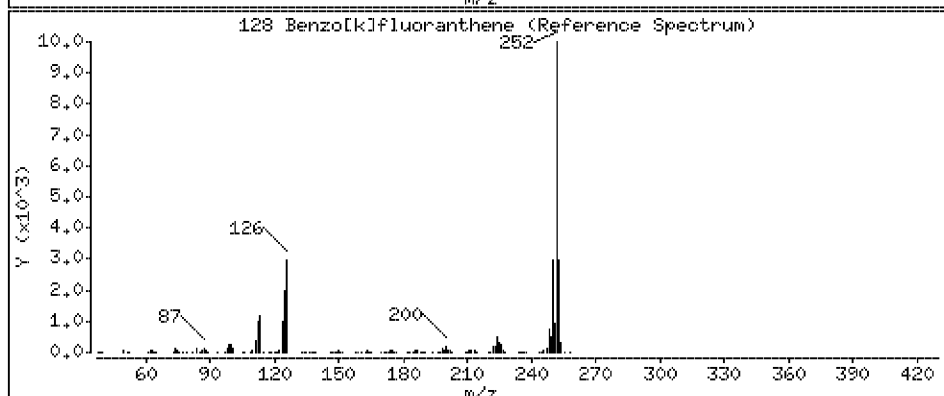
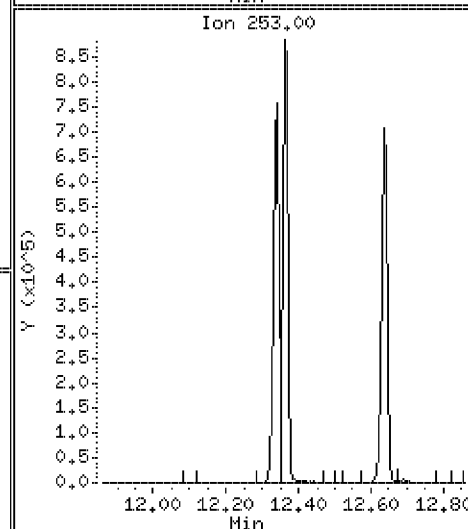
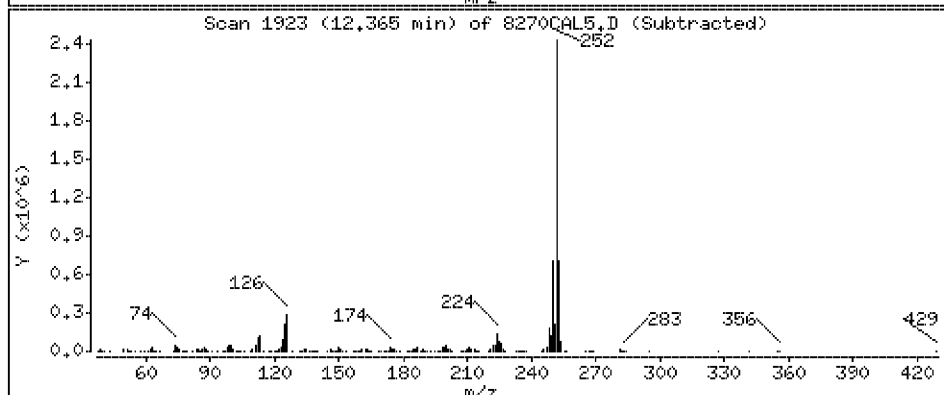
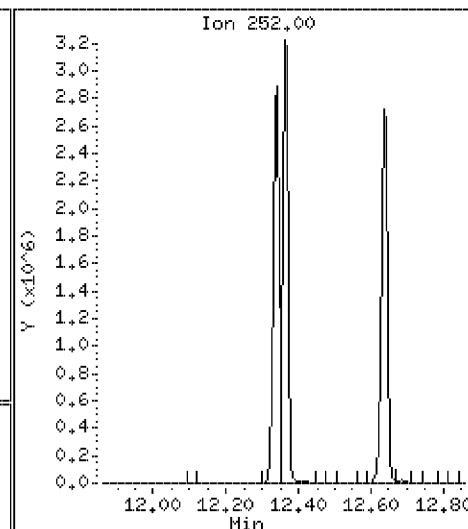
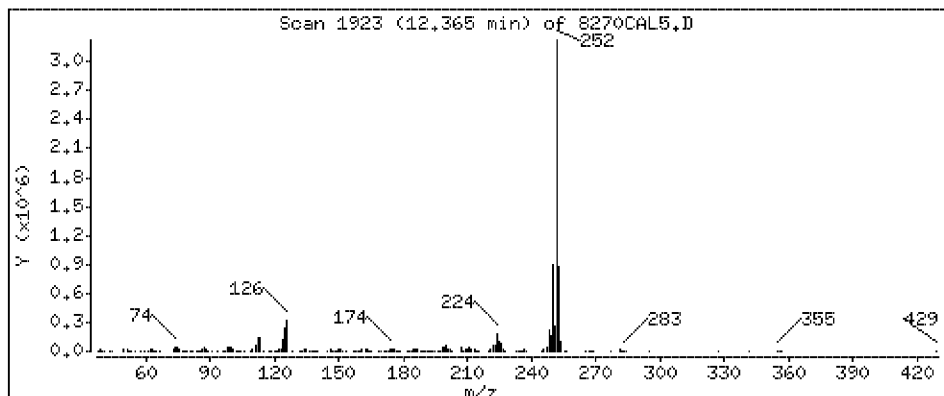
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

128 Benzo[k]fluoranthene

Concentration: 61.1 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

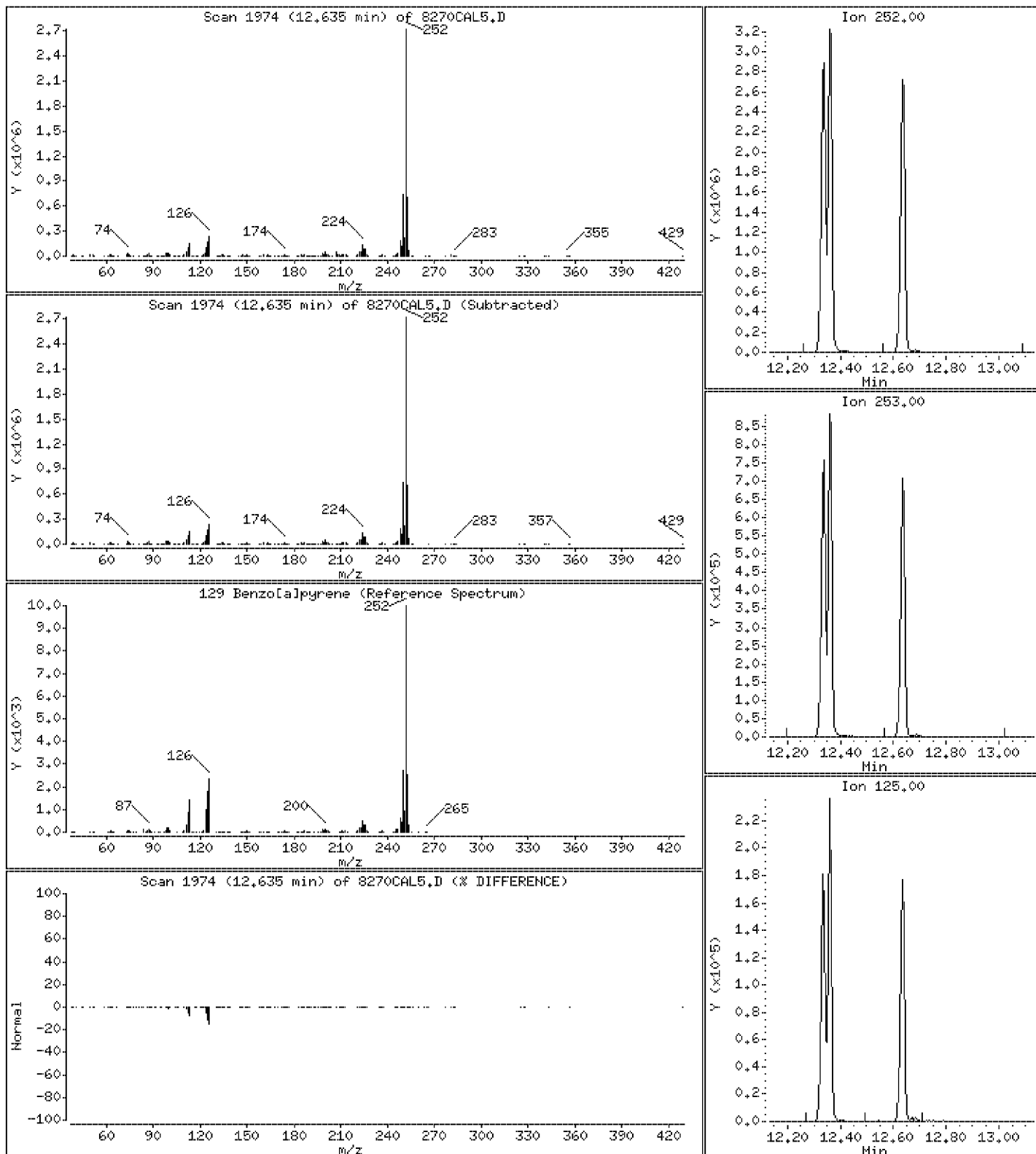
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

129 Benzo[ap]pyrene

Concentration: 61.4 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

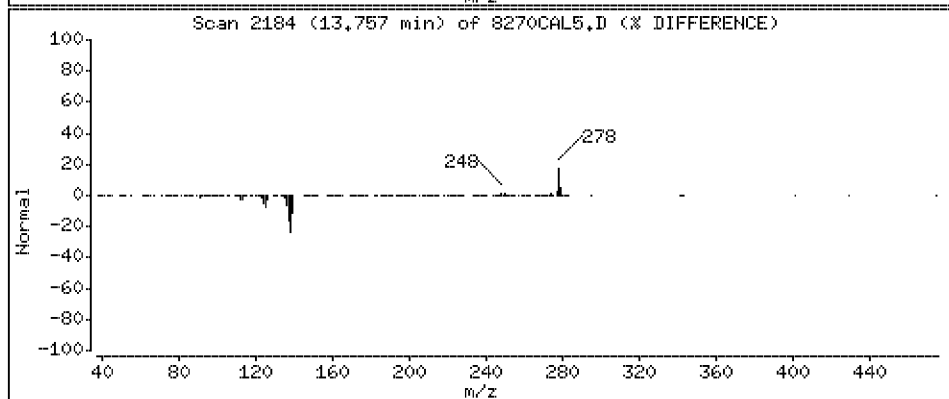
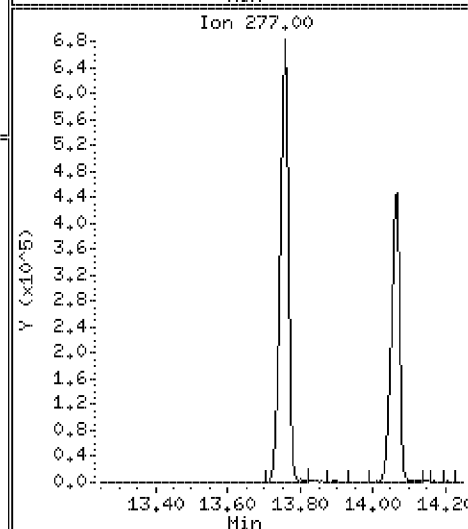
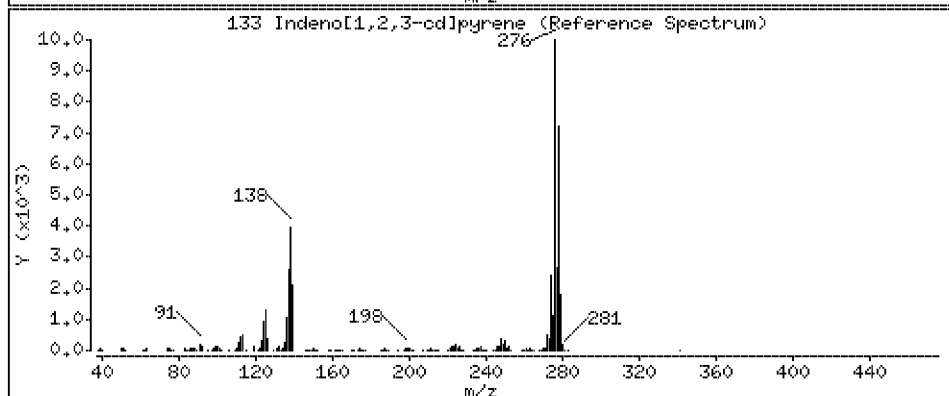
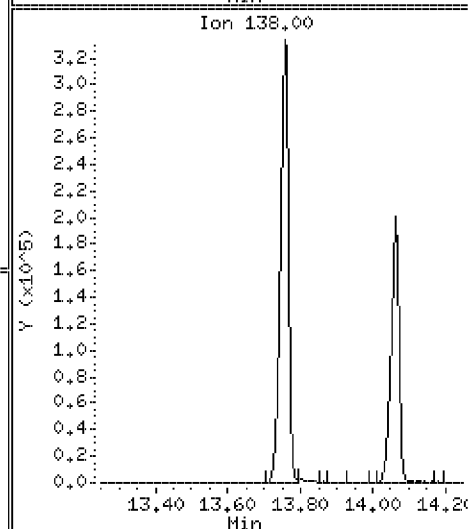
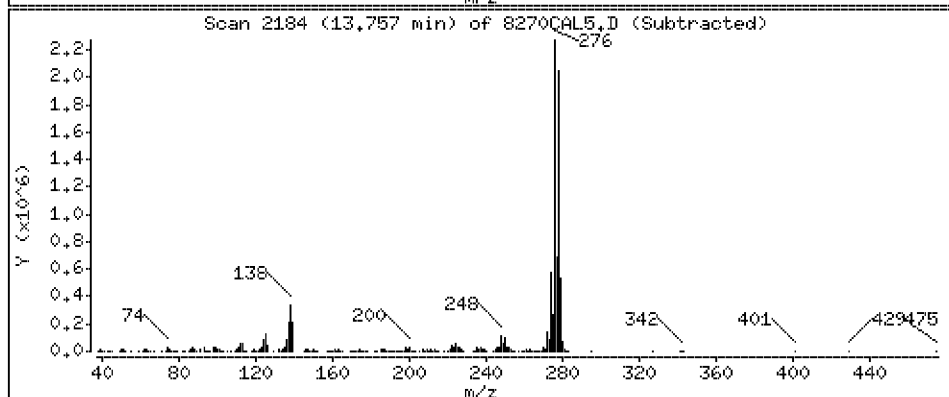
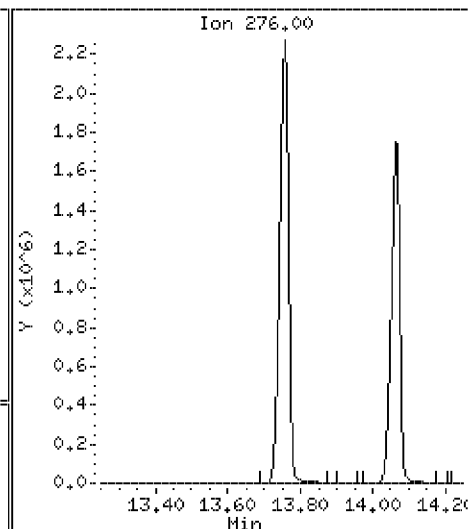
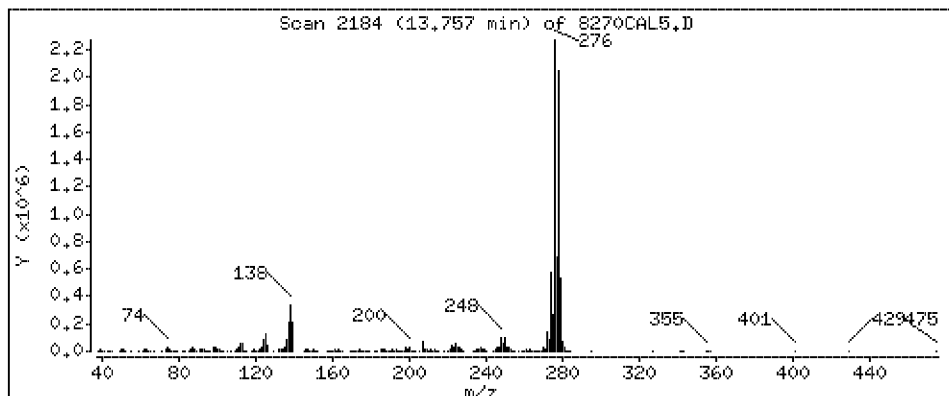
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

133 Indeno[1,2,3-cd]pyrene

Concentration: 60.6 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

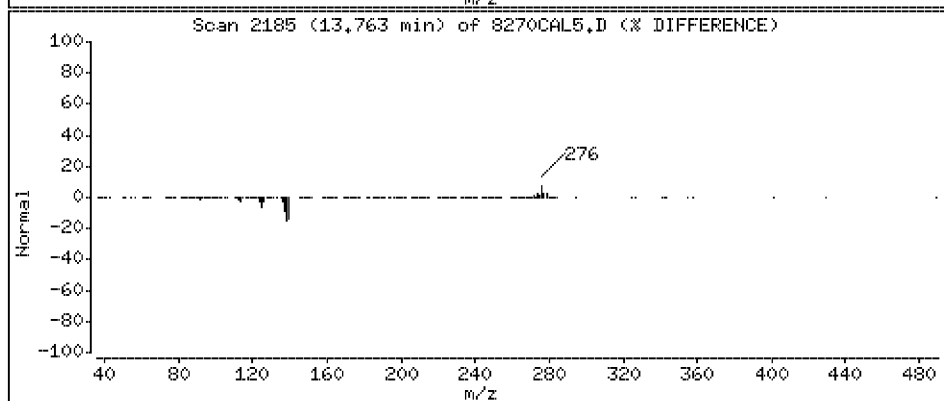
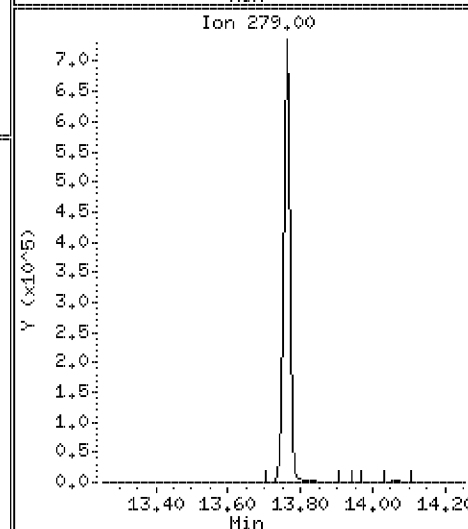
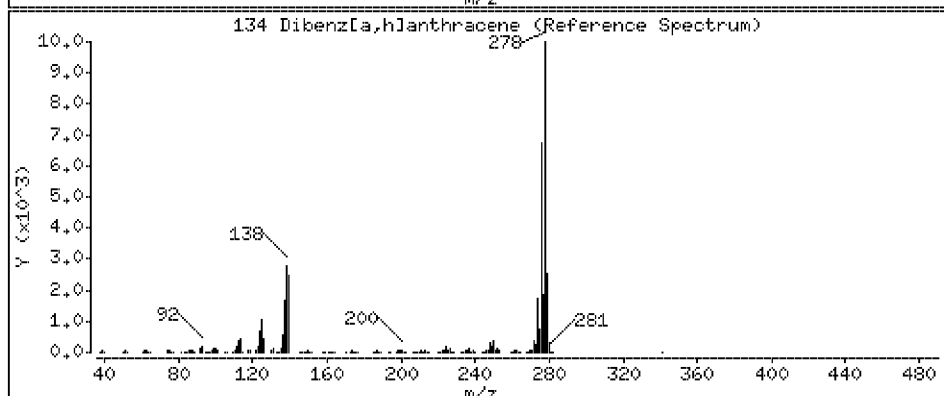
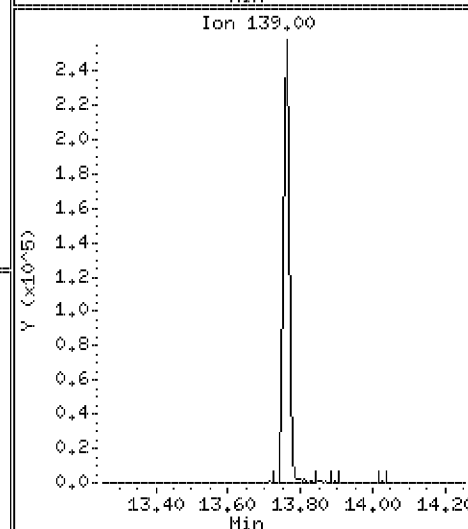
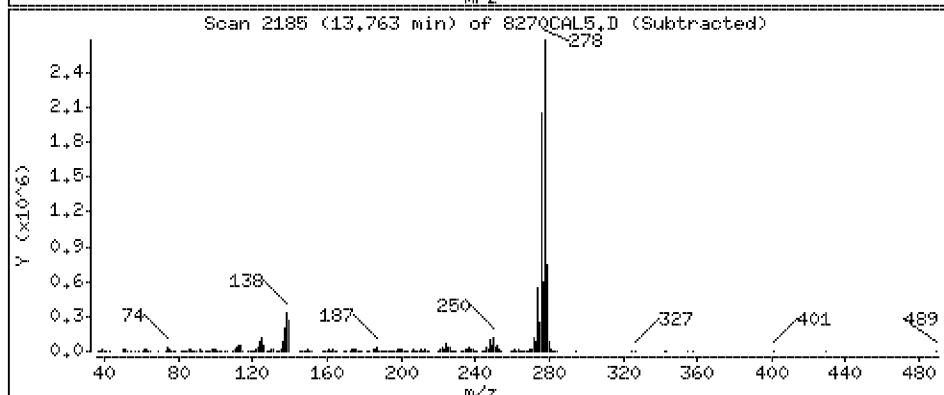
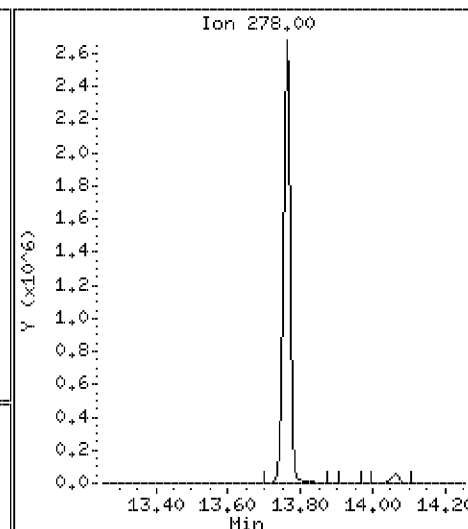
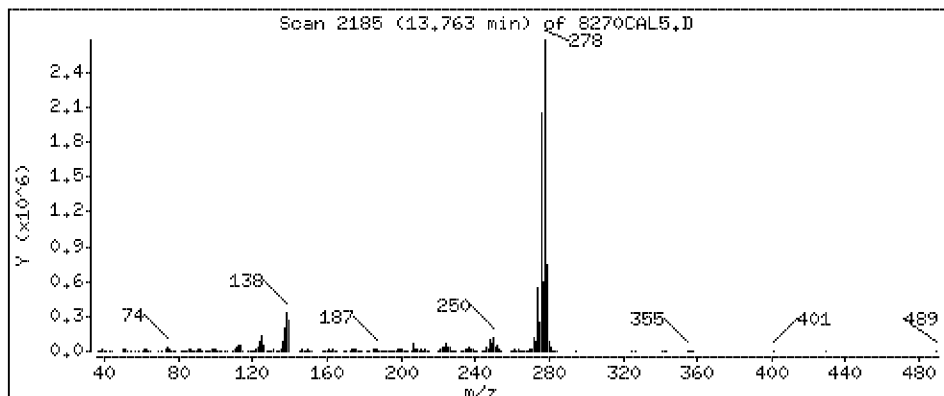
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

134 Dibenz[a,h]anthracene

Concentration: 62.0 ug/l



Date : 23-APR-2012 11:10

Client ID: 8270CAL5

Instrument: smsd03.i

Sample Info: 45923

Purge Volume: 1000.0

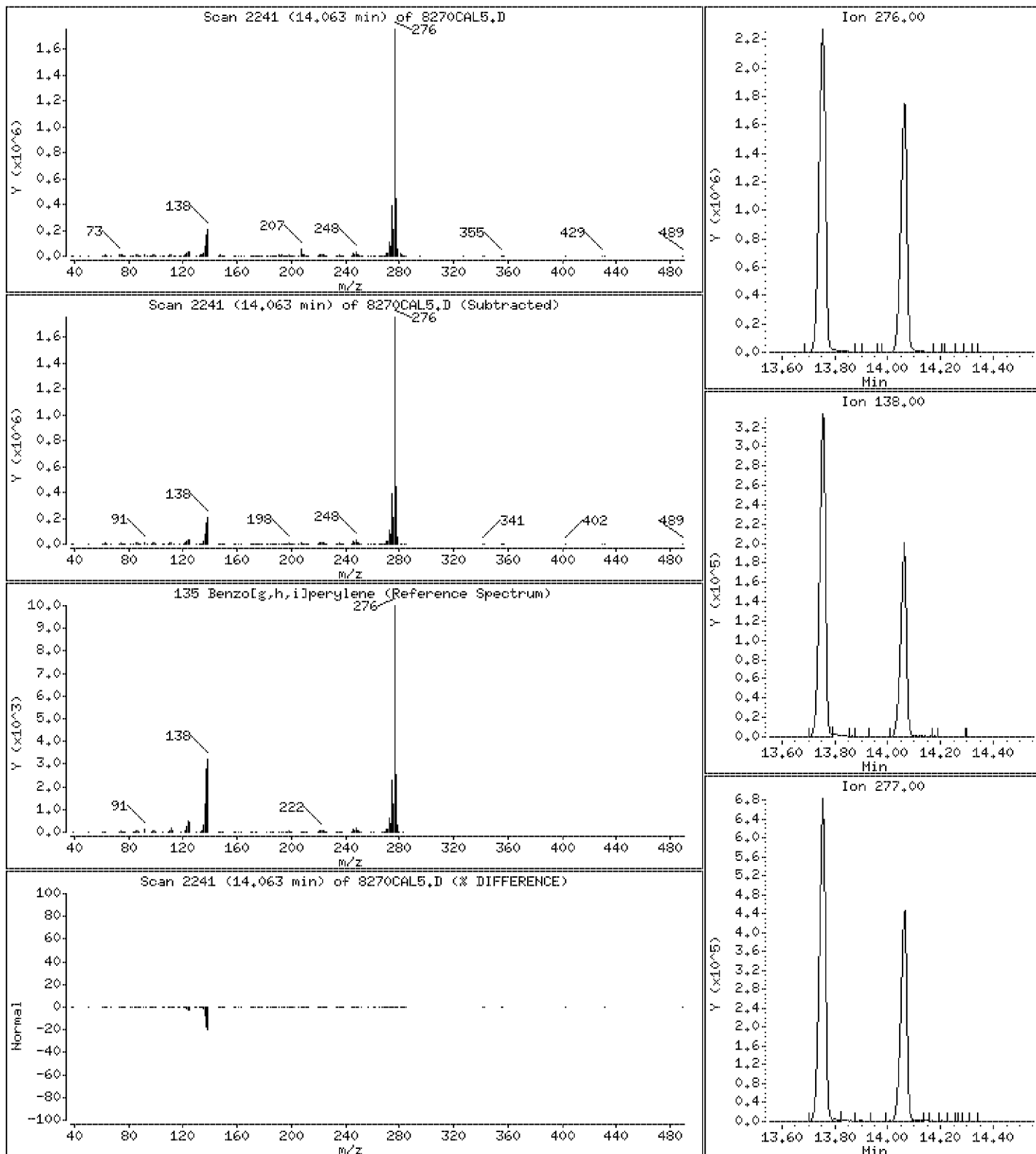
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

135 Benzo[g,h,i]perylene

Concentration: 58.5 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270CAL4.D
 Lab Smp Id: 45924 Client Smp ID: 8270CAL4
 Inj Date : 23-APR-2012 11:34 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 45924
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270bcs.m
 Meth Date : 25-Apr-2012 09:57 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 11:10 Cal File: 8270CAL5.D
 Als bottle: 4 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: 8270caln.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
2 Pyridine CAS #: 110-86-1									
2.381	2.381	(0.535)	79	565395	45.0000	46.3	80.00- 120.00	100.00	
2.381	2.381	(0.535)	52	209239			7.01- 67.01	37.01	
M 16 Cresols (Total) CAS #: 1319-77-3									
				966702	90.0000			(a)	
1 N-Nitrosodimethylamine CAS #: 62-75-9									
2.338	2.338	(0.526)	42	249639	45.0000	45.2	80.00- 120.00	100.00	
2.338	2.338	(0.526)	74	355364			112.35- 172.35	142.35	
2.336	2.338	(0.525)	44	10515			0.00- 34.21	4.21	
\$ 6 2-Fluorophenol (SURR) CAS #: 367-12-4									
3.383	3.383	(0.761)	112	872269	90.0000	92.9	80.00- 120.00	100.00	
3.383	3.383	(0.761)	64	550821			33.15- 93.15	63.15	
\$ 11 Phenol-d5 (SURR) CAS #: 4165-62-2									
4.139	4.139	(0.931)	99	1179240	90.0000	93.7	80.00- 120.00	100.00(TQ)	
4.139	4.139	(0.930)	42	222719			0.00- 48.89	18.89	
4.139	4.139	(0.931)	71	633988			23.76- 83.76	53.76	
13 Phenol CAS #: 108-95-2									
4.151	4.151	(0.933)	94	656815	45.0000	46.0	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
13 Phenol (continued)									
4.152	4.151	(0.933)	65	403241			31.39- 91.39	61.39	
4.151	4.151	(0.933)	66	732221			81.48- 141.48	111.48	

10 Aniline									
								CAS #: 62-53-3	
4.166	4.166	(0.937)	93	708524	45.0000	46.8	80.00- 120.00	100.00	
4.152	4.166	(0.933)	65	403224			26.91- 86.91	56.91	
4.151	4.166	(0.933)	66	732195			73.34- 133.34	103.34	

14 Bis(2-Chloroethyl)ether									
								CAS #: 111-44-4	
4.210	4.210	(0.946)	93	413283	45.0000	46.0	80.00- 120.00	100.00	
4.209	4.210	(0.946)	63	298814			42.30- 102.30	72.30	
4.210	4.210	(0.947)	95	130317			1.53- 61.53	31.53	

15 2-Chlorophenol									
								CAS #: 95-57-8	
4.278	4.278	(0.962)	128	439155	45.0000	46.7	80.00- 120.00	100.00	
4.277	4.278	(0.962)	64	222752			20.72- 80.72	50.72	
4.278	4.278	(0.962)	130	142236			2.39- 62.39	32.39	

17 1,3-Dichlorobenzene									
								CAS #: 541-73-1	
4.401	4.401	(0.989)	146	532886	45.0000	46.2	80.00- 120.00	100.00	
4.401	4.401	(0.989)	148	352533			36.16- 96.16	66.16	
4.400	4.401	(0.989)	111	245884			16.14- 76.14	46.14	

* 18 1,4-Dichlorobenzene-d4									
								CAS #: 3855-82-1	
4.448	4.448	(1.000)	152	324938	40.0000		80.00- 120.00	100.00	
4.447	4.448	(1.000)	115	202127			32.20- 92.20	62.20	
4.448	4.448	(1.000)	150	551663			139.77- 199.77	169.77	

19 1,4-Dichlorobenzene									
								CAS #: 106-46-7	
4.462	4.462	(1.003)	146	555138	45.0000	45.7	80.00- 120.00	100.00	
4.462	4.462	(1.003)	148	377967			38.09- 98.09	68.09	
4.462	4.462	(1.003)	111	247025			14.50- 74.50	44.50	

21 Benzyl alcohol									
								CAS #: 100-51-6	
4.567	4.567	(1.027)	108	290636	45.0000	45.1	80.00- 120.00	100.00(Q)	
4.566	4.567	(1.027)	79	529802			152.29- 212.29	182.29	
4.566	4.567	(1.027)	77	369851			97.26- 157.26	127.26	

20 1,2-Dichlorobenzene									
								CAS #: 95-50-1	
4.599	4.599	(1.034)	146	504171	45.0000	45.6	80.00- 120.00	100.00	
4.600	4.599	(1.034)	148	344466			38.32- 98.32	68.32	
4.599	4.599	(1.034)	111	242692			18.14- 78.14	48.14	

22 2-Methylphenol									
								CAS #: 95-48-7	
4.671	4.671	(1.050)	107	398807	45.0000	46.8	80.00- 120.00	100.00	
4.671	4.671	(1.050)	108	448385			82.43- 142.43	112.43	
4.671	4.671	(1.050)	79	340698			55.43- 115.43	85.43	

23 2,2'-oxybis(1-chloropropane)									
								CAS #: 108-60-1	
4.675	4.675	(1.051)	45	288688	45.0000	46.0	80.00- 120.00	100.00	
4.672	4.675	(1.050)	77	383903			102.98- 162.98	132.98	
4.675	4.675	(1.051)	121	156535			24.22- 84.22	54.22	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
28 4-Methylphenol					CAS #: 106-44-5			
4.808	4.808	(1.081)	107	567895	45.0000	46.2	80.00- 120.00	100.00
4.808	4.808	(1.081)	108	457398			50.54- 110.54	80.54
4.808	4.808	(1.081)	79	186051			2.76- 62.76	32.76

26 N-Nitrosodipropylamine					CAS #: 621-64-7			
4.798	4.798	(1.079)	70	451511	45.0000	47.2	80.00- 120.00	100.00
4.798	4.798	(1.079)	42	166466			6.87- 66.87	36.87
4.799	4.798	(1.079)	130	86835			0.00- 49.23	19.23

30 Hexachloroethane					CAS #: 67-72-1			
4.902	4.902	(1.102)	117	222733	45.0000	46.4	80.00- 120.00	100.00
4.903	4.902	(1.102)	201	267443			90.07- 150.07	120.07
4.903	4.902	(1.102)	199	164133			43.69- 103.69	73.69

\$ 31 Nitrobenzene-d5 (SURR)					CAS #: 4165-60-0			
4.944	4.944	(0.881)	82	675046	45.0000	46.1	80.00- 120.00	100.00
4.944	4.944	(0.881)	128	221173			2.76- 62.76	32.76
4.943	4.944	(0.881)	54	250324			7.08- 67.08	37.08

32 Nitrobenzene					CAS #: 98-95-3			
4.962	4.962	(0.884)	77	662664	45.0000	45.9	80.00- 120.00	100.00
4.962	4.962	(0.885)	123	226512			4.18- 64.18	34.18
4.962	4.962	(0.884)	65	100522			0.00- 45.17	15.17

34 Isophorone					CAS #: 78-59-1			
5.176	5.176	(0.923)	82	797241	45.0000	45.4	80.00- 120.00	100.00(T)
5.177	5.176	(0.923)	138	129834			0.00- 46.29	16.29
5.176	5.176	(0.923)	95	73410			0.00- 39.21	9.21

35 2-Nitrophenol					CAS #: 88-75-5			
5.253	5.253	(0.936)	139	240934	45.0000	45.1	80.00- 120.00	100.00
5.252	5.253	(0.936)	65	176693			43.34- 103.34	73.34
5.253	5.253	(0.936)	109	122664			20.91- 80.91	50.91

36 2,4-Dimethylphenol					CAS #: 105-67-9			
5.294	5.294	(0.944)	122	372368	45.0000	45.3	80.00- 120.00	100.00
5.294	5.294	(0.944)	107	526707			111.45- 171.45	141.45
5.294	5.294	(0.944)	121	219286			28.89- 88.89	58.89

38 Bis(2-Chloroethoxy)methane					CAS #: 111-91-1			
5.369	5.369	(0.957)	93	542981	45.0000	45.5	80.00- 120.00	100.00
5.369	5.369	(0.957)	95	179522			3.06- 63.06	33.06
5.370	5.369	(0.957)	123	78193			0.00- 44.40	14.40

40 Benzoic Acid					CAS #: 65-85-0			
5.404	5.404	(0.963)	122	254638	45.0000	44.9	80.00- 120.00	100.00(Q)
5.404	5.404	(0.963)	105	350552			107.67- 167.67	137.67
5.404	5.404	(0.963)	77	342169			104.37- 164.37	134.37

41 2,4-Dichlorophenol					CAS #: 120-83-2			
5.490	5.490	(0.979)	162	444870	45.0000	45.8	80.00- 120.00	100.00
5.490	5.490	(0.979)	164	295858			36.50- 96.50	66.50

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
41 2,4-Dichlorophenol (continued)									
5.489	5.490	(0.978)	98	158950			5.73- 65.73	35.73	

42 1,2,4-Trichlorobenzene CAS #: 120-82-1									
5.555	5.555	(0.990)	180	544289	45.0000	44.8	80.00- 120.00	100.00	
5.555	5.555	(0.990)	182	530503			67.47- 127.47	97.47	
5.555	5.555	(0.990)	145	153091			0.00- 58.13	28.13	

* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.610	5.610	(1.000)	136	1085348	40.0000		80.00- 120.00	100.00	
5.609	5.610	(1.000)	68	59760			0.00- 35.51	5.51	

44 Naphthalene CAS #: 91-20-3									
5.630	5.630	(1.004)	128	1278236	45.0000	45.9	80.00- 120.00	100.00	
5.630	5.630	(1.004)	129	144160			0.00- 41.28	11.28	
5.630	5.630	(1.004)	127	169601			0.00- 43.27	13.27	

45 4-Chloroaniline CAS #: 106-47-8									
5.681	5.681	(1.013)	127	534508	45.0000	45.6	80.00- 120.00	100.00	
5.681	5.681	(1.013)	129	173140			2.39- 62.39	32.39	
5.680	5.681	(1.013)	65	222041			11.54- 71.54	41.54	

48 Hexachlorobutadiene CAS #: 87-68-3									
5.746	5.746	(1.024)	225	419742	45.0000	45.3	80.00- 120.00	100.00	
5.745	5.746	(1.024)	223	260312			32.02- 92.02	62.02	
5.745	5.746	(1.024)	227	270883			34.54- 94.54	64.54	

51 4-Chloro-3-methylphenol CAS #: 59-50-7									
6.158	6.158	(1.098)	107	432813	45.0000	46.3	80.00- 120.00	100.00	
6.159	6.158	(1.098)	144	112300			0.00- 55.95	25.95	
6.159	6.158	(1.098)	142	322335			44.47- 104.47	74.47	

53 2-Methylnaphthalene CAS #: 91-57-6									
6.289	6.289	(1.121)	142	917497	45.0000	45.3	80.00- 120.00	100.00	
6.289	6.289	(1.121)	141	808118			58.08- 118.08	88.08	

54 1-Methylnaphthalene CAS #: 90-12-0									
6.385	6.385	(1.138)	142	838959	45.0000	45.6	80.00- 120.00	100.00	
6.385	6.385	(1.138)	141	769532			61.72- 121.72	91.72	

55 Hexachlorocyclopentadiene CAS #: 77-47-4									
6.445	6.445	(0.882)	237	534353	45.0000	46.3	80.00- 120.00	100.00	
6.445	6.445	(0.882)	235	338609			33.37- 93.37	63.37	
6.445	6.445	(0.882)	272	73429			0.00- 43.74	13.74	

57 2,4,6-Trichlorophenol CAS #: 88-06-2									
6.620	6.620	(0.906)	196	424896	45.0000	46.7	80.00- 120.00	100.00	
6.621	6.620	(0.906)	198	412432			67.07- 127.07	97.07	
6.621	6.620	(0.906)	200	132990			1.30- 61.30	31.30	

58 2,4,5-Trichlorophenol CAS #: 95-95-4									
6.570	6.570	(0.899)	196	385090	45.0000	45.8	80.00- 120.00	100.00	
6.570	6.570	(0.899)	198	382995			69.46- 129.46	99.46	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
58 2,4,5-Trichlorophenol (continued)									
6.569	6.570	(0.899)	97	249238			34.72- 94.72	64.72	

\$ 59 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.644	6.644	(0.909)	172	1337046	45.0000	47.3	80.00- 120.00	100.00	
6.644	6.644	(0.910)	171	468354			5.03- 65.03	35.03	

62 2-Chloronaphthalene CAS #: 91-58-7									
6.763	6.763	(0.926)	162	999565	45.0000	46.6	80.00- 120.00	100.00	
6.763	6.763	(0.926)	164	341855			4.20- 64.20	34.20	
6.762	6.763	(0.926)	127	378334			7.85- 67.85	37.85	

63 2-Nitroaniline CAS #: 88-74-4									
6.869	6.869	(0.940)	65	346730	45.0000	47.0	80.00- 120.00	100.00(Q)	
6.869	6.869	(0.940)	92	208897			30.25- 90.25	60.25	
6.869	6.869	(0.940)	138	285809			52.43- 112.43	82.43	

65 Dimethylphthalate CAS #: 131-11-3									
7.040	7.040	(0.964)	163	1153818	45.0000	46.9	80.00- 120.00	100.00	
7.040	7.040	(0.964)	194	64089			0.00- 35.55	5.55	
7.040	7.040	(0.964)	164	121672			0.00- 40.55	10.55	

68 Acenaphthylene CAS #: 208-96-8									
7.167	7.167	(0.981)	152	1482094	45.0000	46.8	80.00- 120.00	100.00(Q)	
7.167	7.167	(0.981)	151	303902			0.00- 50.50	20.50	
7.167	7.167	(0.981)	153	203965			0.00- 43.76	13.76	

67 2,6-Dinitrotoluene CAS #: 606-20-2									
7.100	7.100	(0.972)	165	262617	45.0000	47.2	80.00- 120.00	100.00(Q)	
7.100	7.100	(0.972)	89	207509			49.02- 109.02	79.02	
7.100	7.100	(0.972)	63	196587			44.86- 104.86	74.86	

69 3-Nitroaniline CAS #: 99-09-2									
7.271	7.271	(0.995)	138	228756	45.0000	46.3	80.00- 120.00	100.00	
7.271	7.271	(0.995)	108	25901			0.00- 41.32	11.32	
7.271	7.271	(0.995)	92	297505			100.05- 160.05	130.05	

* 70 Acenaphthene-d10 CAS #: 15067-26-2									
7.305	7.305	(1.000)	164	730887	40.0000		80.00- 120.00	100.00	
7.305	7.305	(1.000)	162	692360			64.73- 124.73	94.73	
7.305	7.305	(1.000)	160	310370			12.46- 72.46	42.46	

71 Acenaphthene CAS #: 83-32-9									
7.338	7.338	(1.004)	154	892209	45.0000	46.4	80.00- 120.00	100.00	
7.338	7.338	(1.004)	153	967666			78.46- 138.46	108.46	
7.338	7.338	(1.004)	152	476821			23.44- 83.44	53.44	

72 2,4-Dinitrophenol CAS #: 51-28-5									
7.369	7.369	(1.009)	184	160178	45.0000	44.2	80.00- 120.00	100.00	
7.368	7.369	(1.009)	63	125050			48.07- 108.07	78.07	
7.369	7.369	(1.009)	154	111496			39.61- 99.61	69.61	

74 4-Nitrophenol CAS #: 100-02-7									
7.476	7.476	(1.023)	109	258513	45.0000	48.1	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
74 4-Nitrophenol (continued)									
7.478	7.476	(1.024)	139	146395			26.63- 86.63	56.63	
7.476	7.476	(1.023)	65	288463			81.59- 141.59	111.59	

75 Dibenzofuran CAS #: 132-64-9									
7.506	7.506	(1.027)	168	1458463	45.0000	46.6	80.00- 120.00	100.00	
7.505	7.506	(1.027)	139	623524			12.75- 72.75	42.75	

76 2,4-Dinitrotoluene CAS #: 121-14-2									
7.494	7.494	(1.026)	165	356078	45.0000	45.6	80.00- 120.00	100.00(Q)	
7.494	7.494	(1.026)	63	399160			82.10- 142.10	112.10	
7.494	7.494	(1.026)	89	363480			72.08- 132.08	102.08	

80 Diethylphthalate CAS #: 84-66-2									
7.729	7.729	(1.058)	149	1053697	45.0000	46.4	80.00- 120.00	100.00	
7.730	7.729	(1.058)	177	246092			0.00- 53.36	23.36	
7.729	7.729	(1.058)	150	130995			0.00- 42.43	12.43	

81 Fluorene CAS #: 86-73-7									
7.841	7.841	(1.073)	166	1279956	45.0000	47.2	80.00- 120.00	100.00	
7.841	7.841	(1.073)	165	1223038			65.55- 125.55	95.55	
7.841	7.841	(1.073)	167	181135			0.00- 44.15	14.15	

82 4-Chlorophenyl-phenylether CAS #: 7005-72-3									
7.838	7.838	(1.073)	204	760601	45.0000	46.8	80.00- 120.00	100.00	
7.838	7.838	(1.073)	206	260637			4.27- 64.27	34.27	
7.838	7.838	(1.073)	141	418110			24.97- 84.97	54.97	

84 4-Nitroaniline CAS #: 100-01-6									
7.874	7.874	(1.078)	138	182466	45.0000	42.6	80.00- 120.00	100.00	
7.874	7.874	(1.078)	92	124106			38.02- 98.02	68.02	
7.874	7.874	(1.078)	108	282673			124.92- 184.92	154.92	

85 4,6-Dinitro-2-methylphenol CAS #: 534-52-1									
7.896	7.896	(0.901)	198	251212	45.0000	44.2	80.00- 120.00	100.00	
7.894	7.896	(0.901)	51	92359			6.77- 66.77	36.77	
7.895	7.896	(0.901)	105	96708			8.50- 68.50	38.50	

86 N-Nitrosodiphenylamine CAS #: 86-30-6									
7.956	7.956	(0.908)	169	747752	45.0000	45.4	80.00- 120.00	100.00	
7.957	7.956	(0.908)	168	498063			36.61- 96.61	66.61	
7.956	7.956	(0.908)	167	258861			4.62- 64.62	34.62	

87 1,2-Diphenylhydrazine CAS #: 122-66-7									
7.992	7.992	(1.094)	77	1202530	45.0000	46.0	80.00- 120.00	100.00(M)	
7.994	7.992	(1.094)	105	160451			0.00- 43.34	13.34	
7.995	7.992	(1.094)	182	313921			0.00- 56.11	26.11	

88 2,4,6-Tribromophenol (SURR) CAS #: 118-79-6									
8.083	8.083	(1.106)	330	474765	90.0000	93.0	80.00- 120.00	100.00	
8.083	8.083	(1.107)	332	457794			66.43- 126.43	96.43	
8.081	8.083	(1.106)	141	186295			9.24- 69.24	39.24	

AMOUNTS										
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO		
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	
93 4-Bromophenylphenylether										
						CAS #:	101-55-3			
8.318	8.318	(0.949)	248	442321	45.0000	46.3	80.00- 120.00	100.00		
8.318	8.318	(0.949)	250	430658			67.36- 127.36	97.36		
8.317	8.318	(0.949)	141	290930			35.77- 95.77	65.77		

94 Hexachlorobenzene										
						CAS #:	118-74-1			
8.387	8.387	(0.957)	284	505718	45.0000	46.1	80.00- 120.00	100.00		
8.385	8.387	(0.957)	142	163778			2.39- 62.39	32.39		
8.386	8.387	(0.957)	249	152013			0.06- 60.06	30.06		

96 Pentachlorophenol										
						CAS #:	87-86-5			
8.585	8.585	(0.980)	266	300625	45.0000	46.6	80.00- 120.00	100.00		
8.585	8.585	(0.980)	264	191504			33.70- 93.70	63.70		
8.585	8.585	(0.980)	268	196195			35.26- 95.26	65.26		

* 100 Phenanthrene-d10										
						CAS #:	1517-22-2			
8.761	8.761	(1.000)	188	1306281	40.0000		80.00- 120.00	100.00		
8.761	8.761	(1.000)	94	82956			0.00- 36.35	6.35		
8.760	8.761	(1.000)	80	102194			0.00- 37.82	7.82		

101 Phenanthrene										
						CAS #:	85-01-8			
8.785	8.785	(1.003)	178	1587296	45.0000	47.2	80.00- 120.00	100.00(Q)		
8.785	8.785	(1.003)	179	259224			0.00- 46.33	16.33		
8.785	8.785	(1.003)	176	319179			0.00- 50.11	20.11		

103 Anthracene										
						CAS #:	120-12-7			
8.835	8.835	(1.008)	178	1580709	45.0000	47.2	80.00- 120.00	100.00(Q)		
8.835	8.835	(1.008)	179	252450			0.00- 45.97	15.97		
8.835	8.835	(1.008)	176	312915			0.00- 49.80	19.80		

104 Carbazole										
						CAS #:	86-74-8			
8.996	8.996	(1.027)	167	1243292	45.0000	44.5	80.00- 120.00	100.00		
8.996	8.996	(1.027)	139	172699			0.00- 43.89	13.89		
8.996	8.996	(1.027)	83	76737			0.00- 36.17	6.17		

105 Di-n-butylphthalate										
						CAS #:	84-74-2			
9.327	9.327	(1.065)	149	1679959	45.0000	47.6	80.00- 120.00	100.00		
9.327	9.327	(1.065)	150	168602			0.00- 40.04	10.04		
9.326	9.327	(1.064)	104	130860			0.00- 37.79	7.79		

109 Fluoranthene										
						CAS #:	206-44-0			
9.953	9.953	(1.136)	202	1779902	45.0000	46.1	80.00- 120.00	100.00		
9.952	9.953	(1.136)	101	119125			0.00- 36.69	6.69		
9.953	9.953	(1.136)	203	334963			0.00- 48.82	18.82		

111 Pyrene										
						CAS #:	129-00-0			
10.176	10.176	(0.896)	202	1923257	45.0000	44.7	80.00- 120.00	100.00		
10.177	10.176	(0.896)	200	420845			0.00- 51.88	21.88		
10.176	10.176	(0.896)	203	371806			0.00- 49.33	19.33		

\$ 112 Terphenyl-d14 (SURR)										
						CAS #:	1718-51-0			
10.322	10.322	(0.909)	244	1843767	45.0000	45.1	80.00- 120.00	100.00		
10.321	10.322	(0.909)	122	123948			0.00- 36.72	6.72		

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 112 Terphenyl-d14 (SURR) (continued)									
10.322	10.322	(0.909)	212	148531			0.00- 38.06	8.06	

118 Butylbenzylphthalate CAS #: 85-68-7									
10.798	10.798	(0.951)	149	861199	45.0000	46.2	80.00- 120.00	100.00	
10.798	10.798	(0.951)	91	702446			51.57- 111.57	81.57	
10.799	10.798	(0.951)	206	216468			0.00- 55.14	25.14	

120 Benzo[a]anthracene CAS #: 56-55-3									
11.348	11.348	(0.999)	228	2553320	45.0000	47.0	80.00- 120.00	100.00	
11.348	11.348	(0.999)	229	550794			0.00- 51.57	21.57	
11.348	11.348	(0.999)	226	728783			0.00- 58.54	28.54	

* 121 Chrysene-d12 CAS #: 1719-03-5									
11.359	11.359	(1.000)	240	2165349	40.0000		80.00- 120.00	100.00	
11.357	11.359	(1.000)	120	138186			0.00- 36.38	6.38	
11.358	11.359	(1.000)	236	585917			0.00- 57.06	27.06	

123 Chrysene CAS #: 218-01-9									
11.384	11.384	(1.002)	228	2176466	45.0000	45.7	80.00- 120.00	100.00	
11.384	11.384	(1.002)	226	677295			1.12- 61.12	31.12	
11.384	11.384	(1.002)	229	473226			0.00- 51.74	21.74	

124 Bis-2-Ethylhexylphthalate CAS #: 117-81-7									
11.350	11.350	(0.999)	149	1541099	45.0000	47.8	80.00- 120.00	100.00	
11.351	11.350	(0.999)	167	494214			2.07- 62.07	32.07	
11.352	11.350	(0.999)	279	142376			0.00- 39.24	9.24	

125 Di-n-octylphthalate CAS #: 117-84-0									
11.948	11.948	(0.942)	149	2012276	45.0000	48.8	80.00- 120.00	100.00	
11.948	11.948	(0.942)	167	35099			0.00- 31.74	1.74	
11.947	11.948	(0.942)	43	165184			0.00- 38.21	8.21	

127 Benzo[b]fluoranthene CAS #: 205-99-2									
12.333	12.333	(0.972)	252	2359174	45.0000	46.4	80.00- 120.00	100.00	
12.334	12.333	(0.973)	253	566744			0.00- 54.02	24.02	
12.332	12.333	(0.972)	125	116410			0.00- 34.93	4.93	

128 Benzo[k]fluoranthene CAS #: 207-08-9									
12.359	12.359	(0.974)	252	2477230	45.0000	48.5	80.00- 120.00	100.00	
12.359	12.359	(0.974)	253	583870			0.00- 53.57	23.57	
12.357	12.359	(0.974)	125	130418			0.00- 35.26	5.26	

129 Benzo[a]pyrene CAS #: 50-32-8									
12.630	12.630	(0.996)	252	2342252	45.0000	47.2	80.00- 120.00	100.00	
12.630	12.630	(0.996)	253	563062			0.00- 54.04	24.04	
12.629	12.630	(0.996)	125	129315			0.00- 35.52	5.52	

* 130 Perylene-d12 CAS #: 1520-96-3									
12.682	12.682	(1.000)	264	1911346	40.0000		80.00- 120.00	100.00	
12.682	12.682	(1.000)	260	474004			0.00- 54.80	24.80	
12.682	12.682	(1.000)	265	447076			0.00- 53.39	23.39	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
133 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5				
13.749	13.749	(1.084)	276	2895767	45.0000	46.8	80.00- 120.00	100.00	
13.750	13.749	(1.084)	138	361475			0.00- 42.48	12.48	
13.749	13.749	(1.084)	277	776637			0.00- 56.82	26.82	

134 Dibenz[a,h]anthracene					CAS #: 53-70-3				
13.755	13.755	(1.085)	278	2560504	45.0000	47.4	80.00- 120.00	100.00	
13.753	13.755	(1.084)	139	197219			0.00- 37.70	7.70	
13.755	13.755	(1.085)	279	629011			0.00- 54.57	24.57	

135 Benzo[g,h,i]perylene					CAS #: 191-24-2				
14.053	14.053	(1.108)	276	2198134	45.0000	46.5	80.00- 120.00	100.00	
14.053	14.053	(1.108)	138	220018			0.00- 40.01	10.01	
14.053	14.053	(1.108)	277	545072			0.00- 54.80	24.80	

QC Flag Legend

- T - Target compound detected outside RT window.
- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

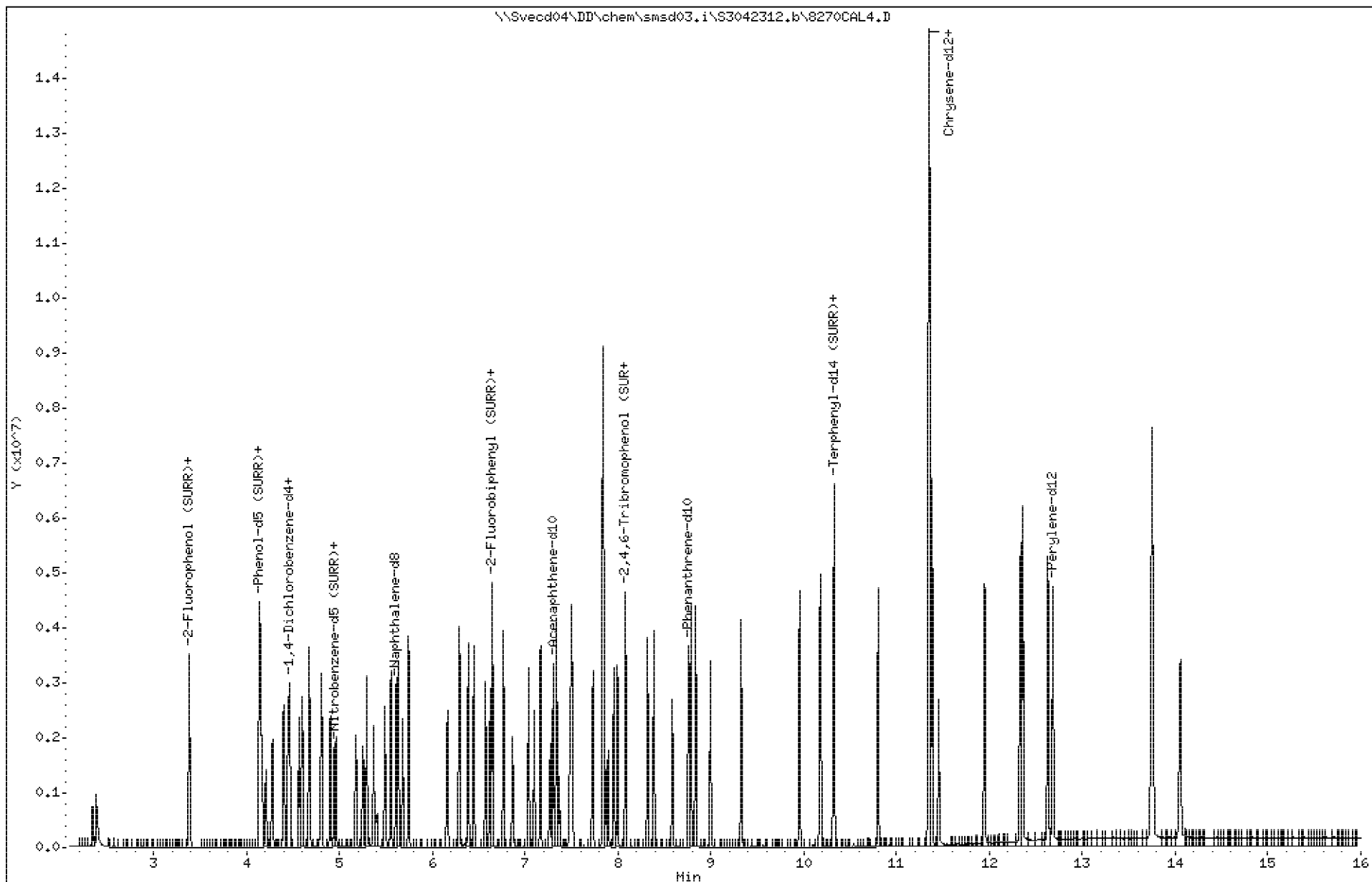
Sample Info: 45924

Operator: PEL

Purge Volume: 1000.0

Column diameter: 0.25

Column phase: HPMS-5



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

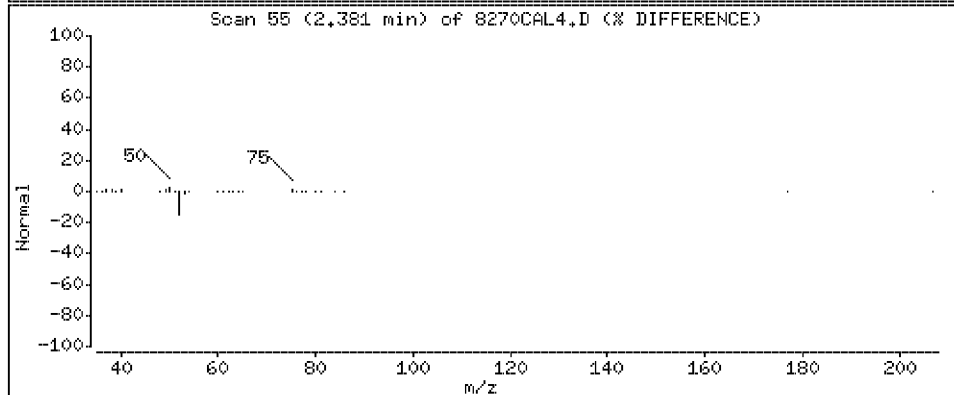
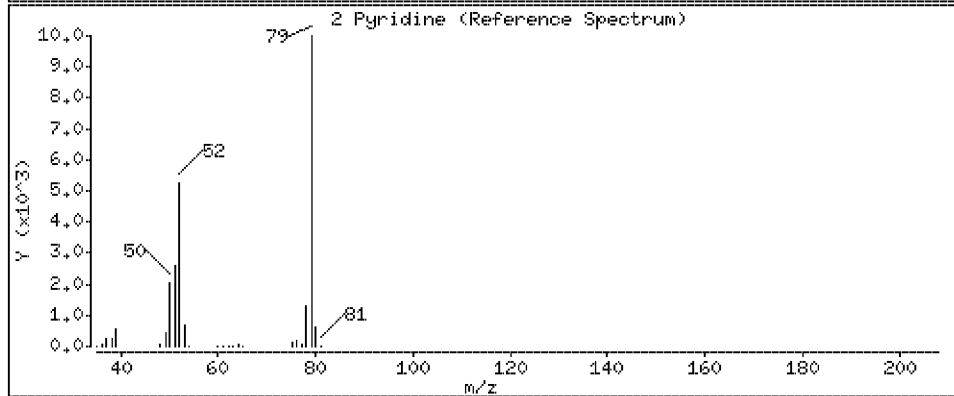
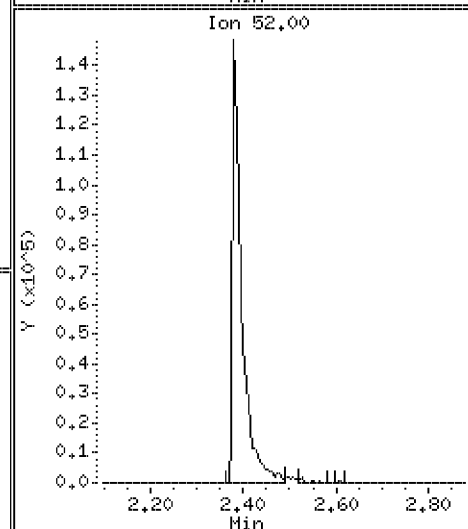
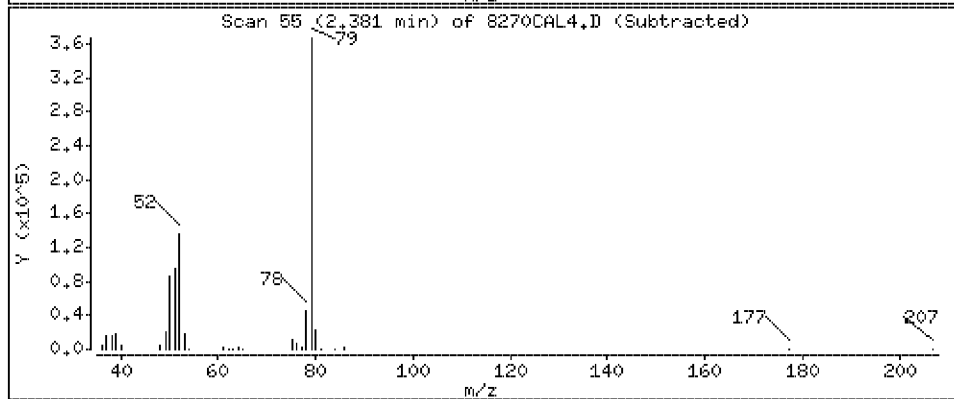
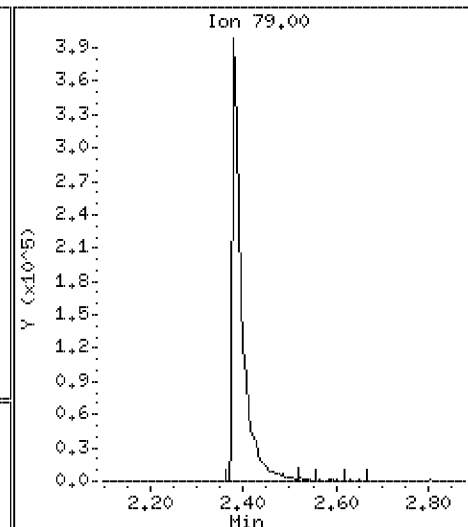
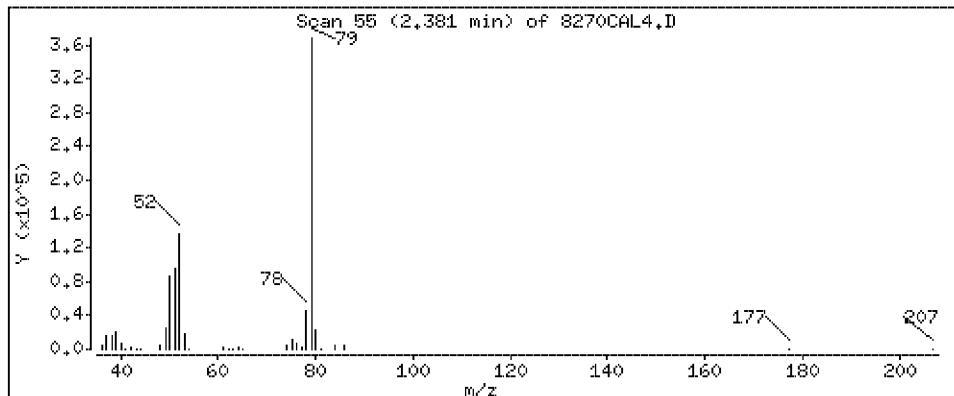
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

2 Pyridine

Concentration: 46.3 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

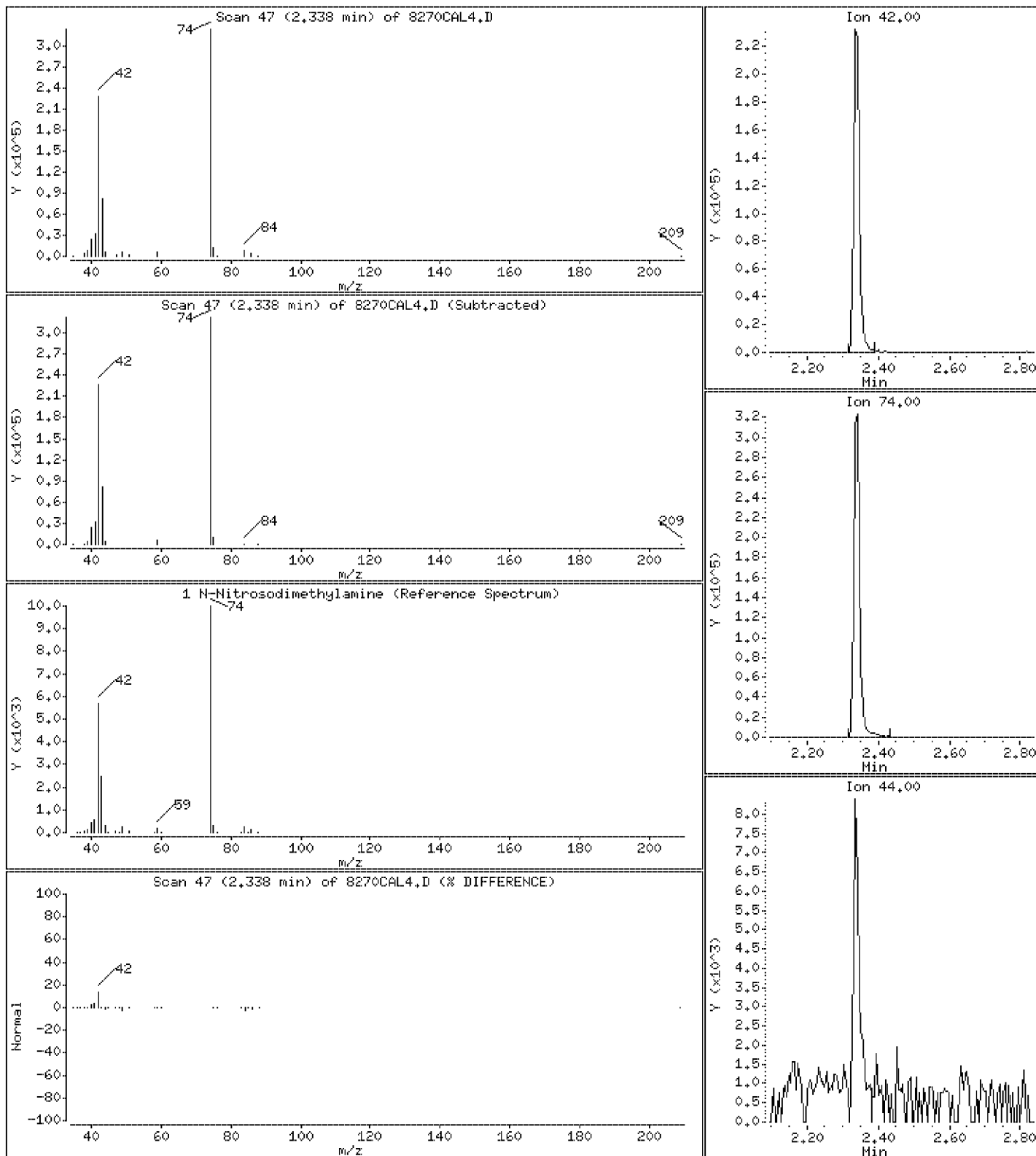
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

1 N-Nitrosodimethylamine

Concentration: 45.2 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

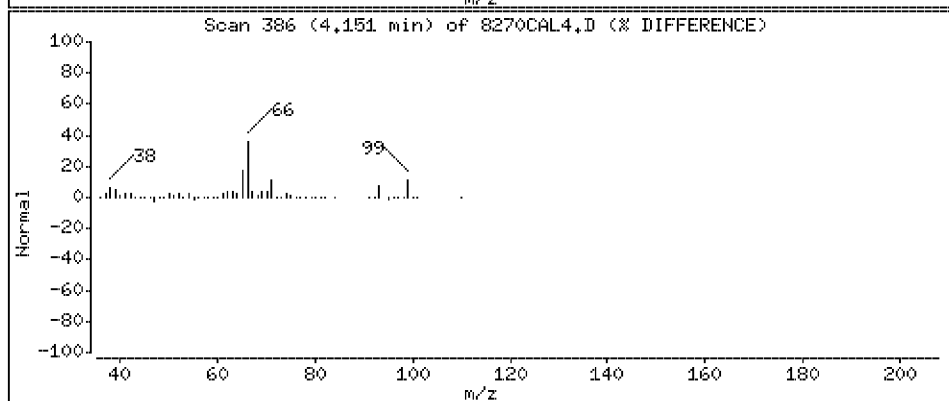
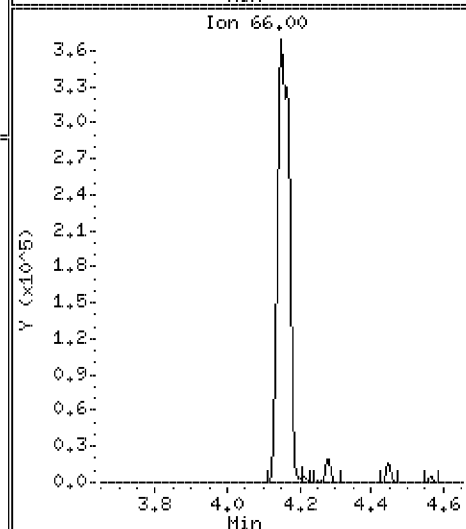
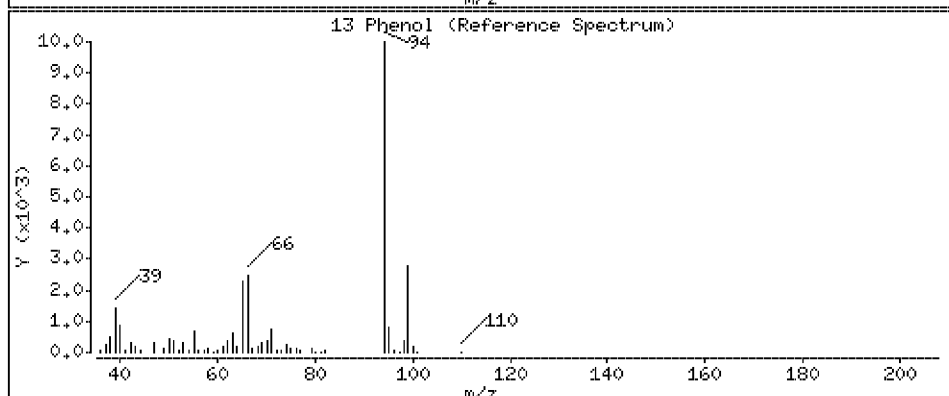
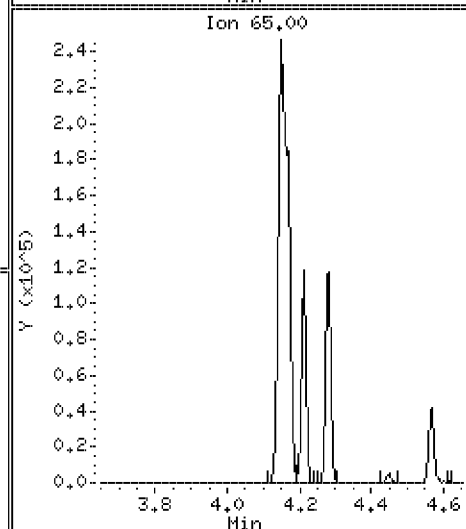
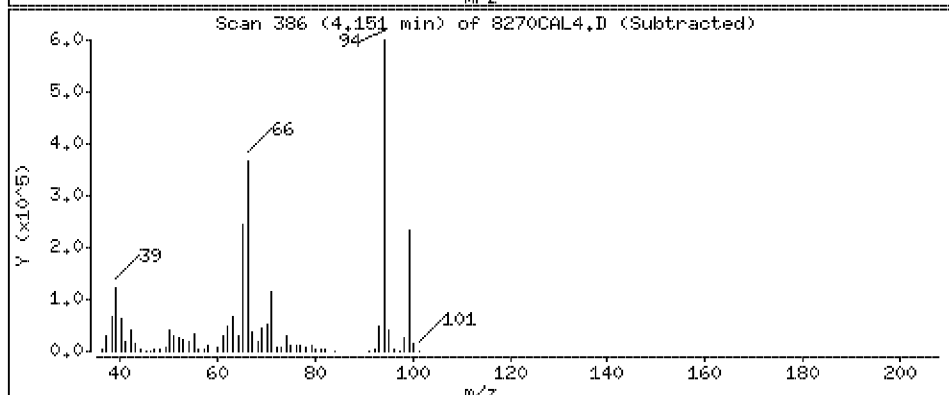
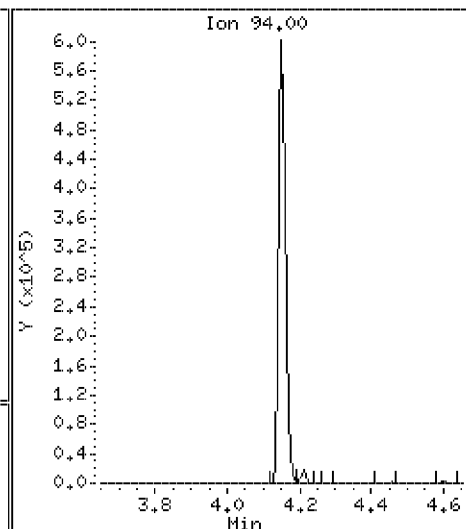
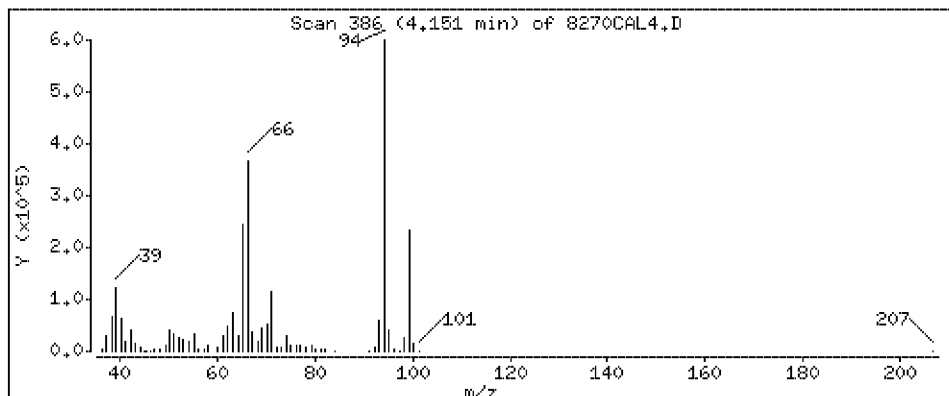
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

13 Phenol

Concentration: 46.0 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

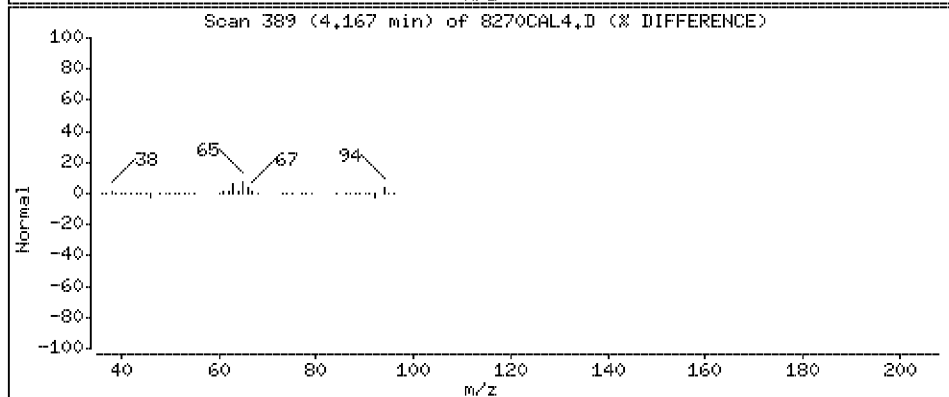
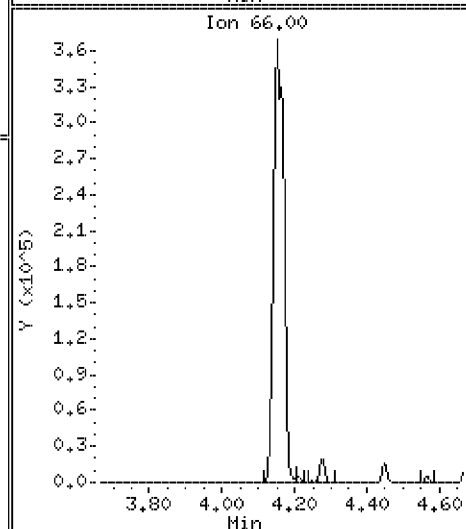
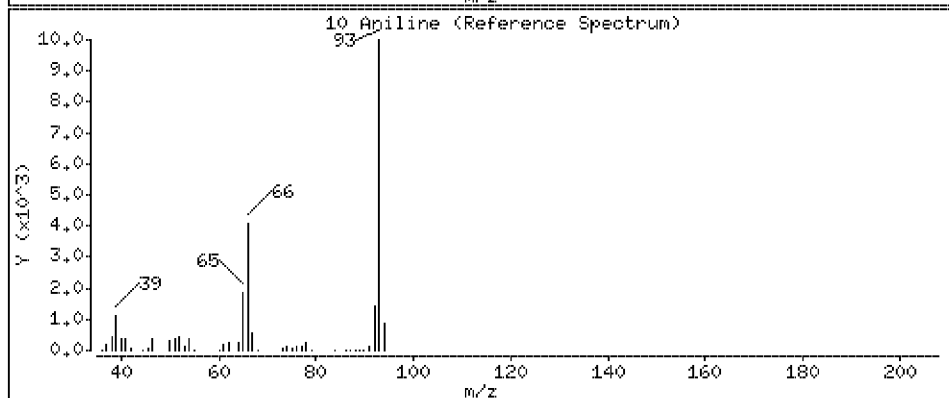
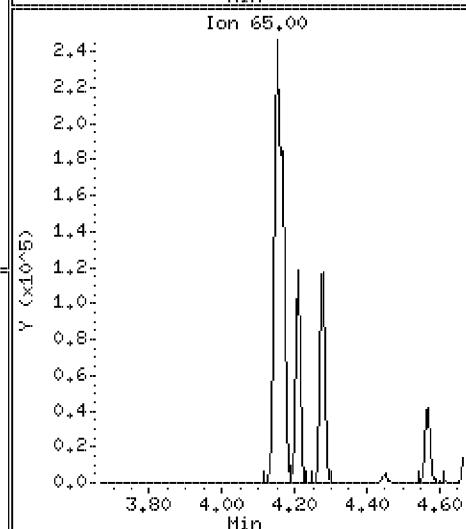
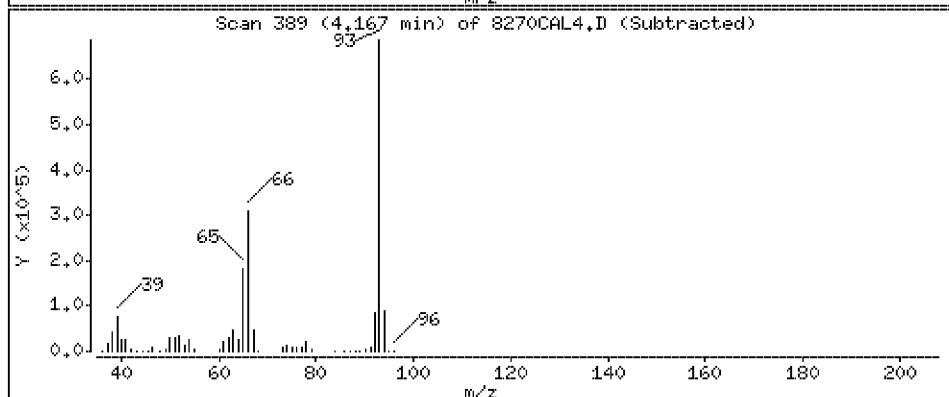
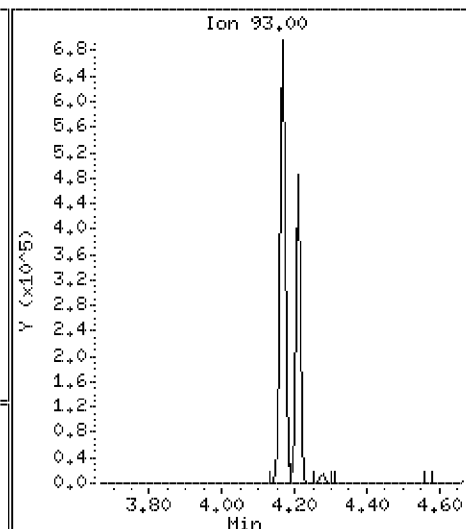
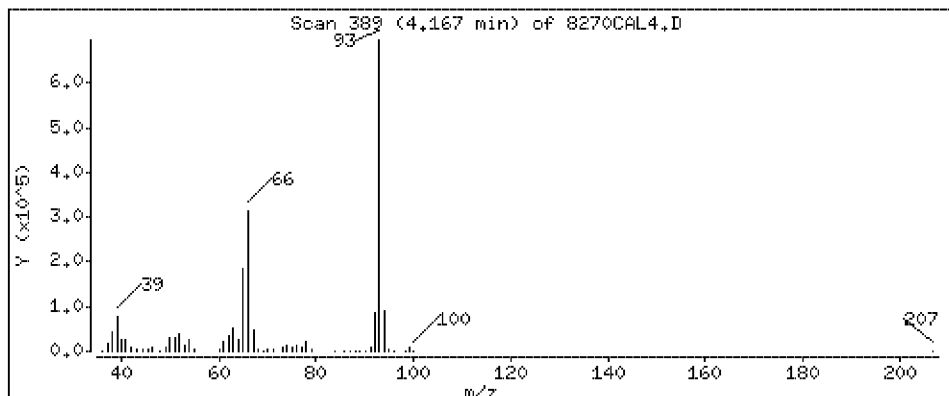
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

10 Aniline

Concentration: 46.8 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

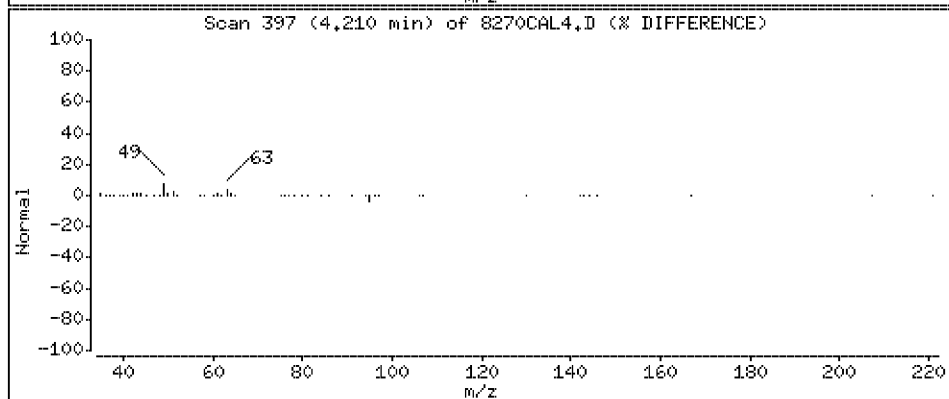
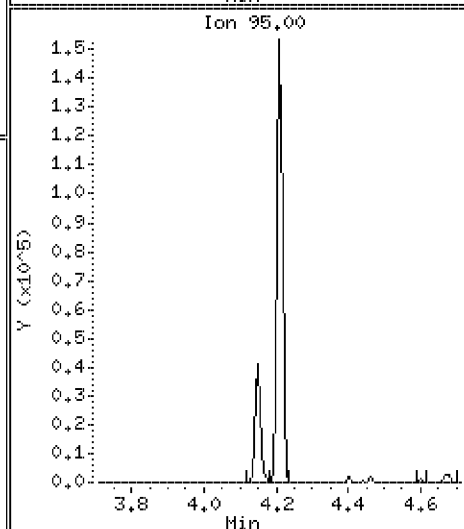
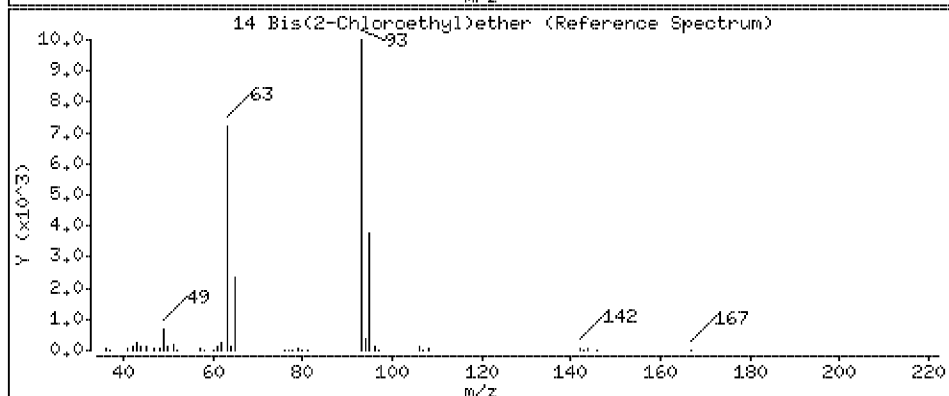
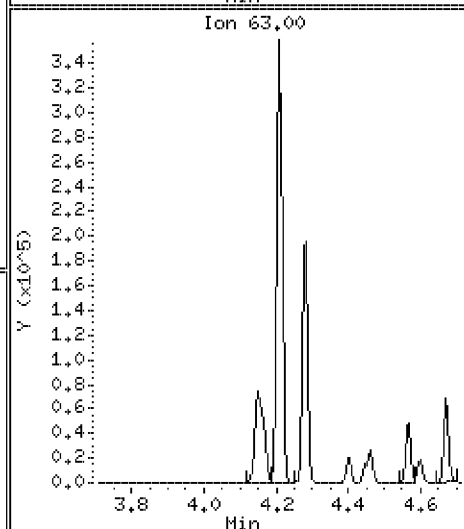
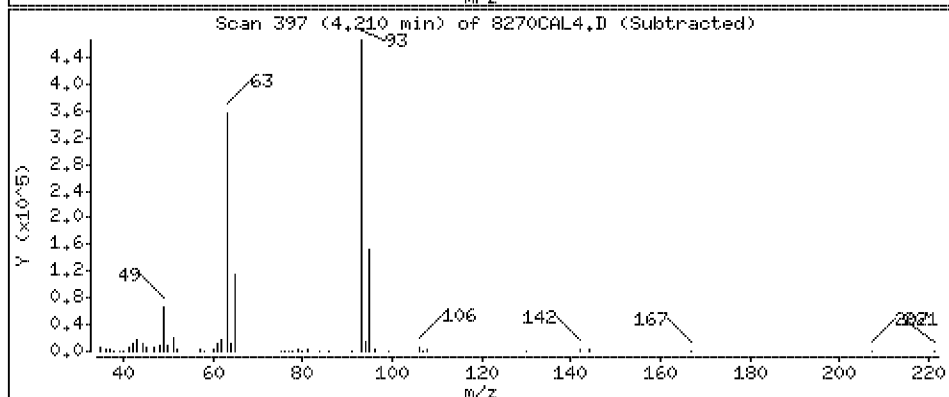
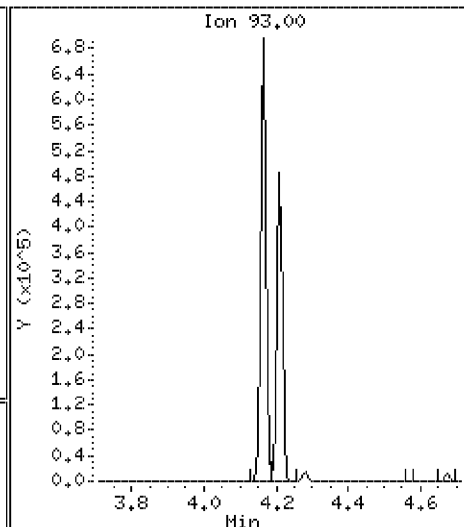
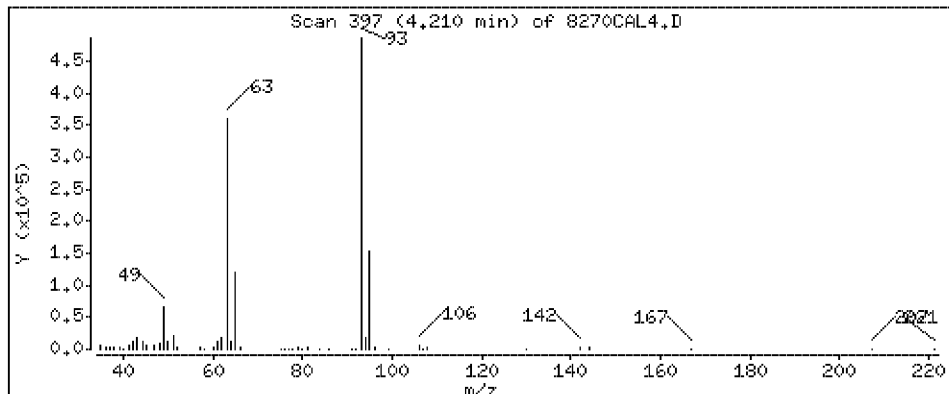
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

14 Bis(2-Chloroethyl)ether

Concentration: 46.0 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

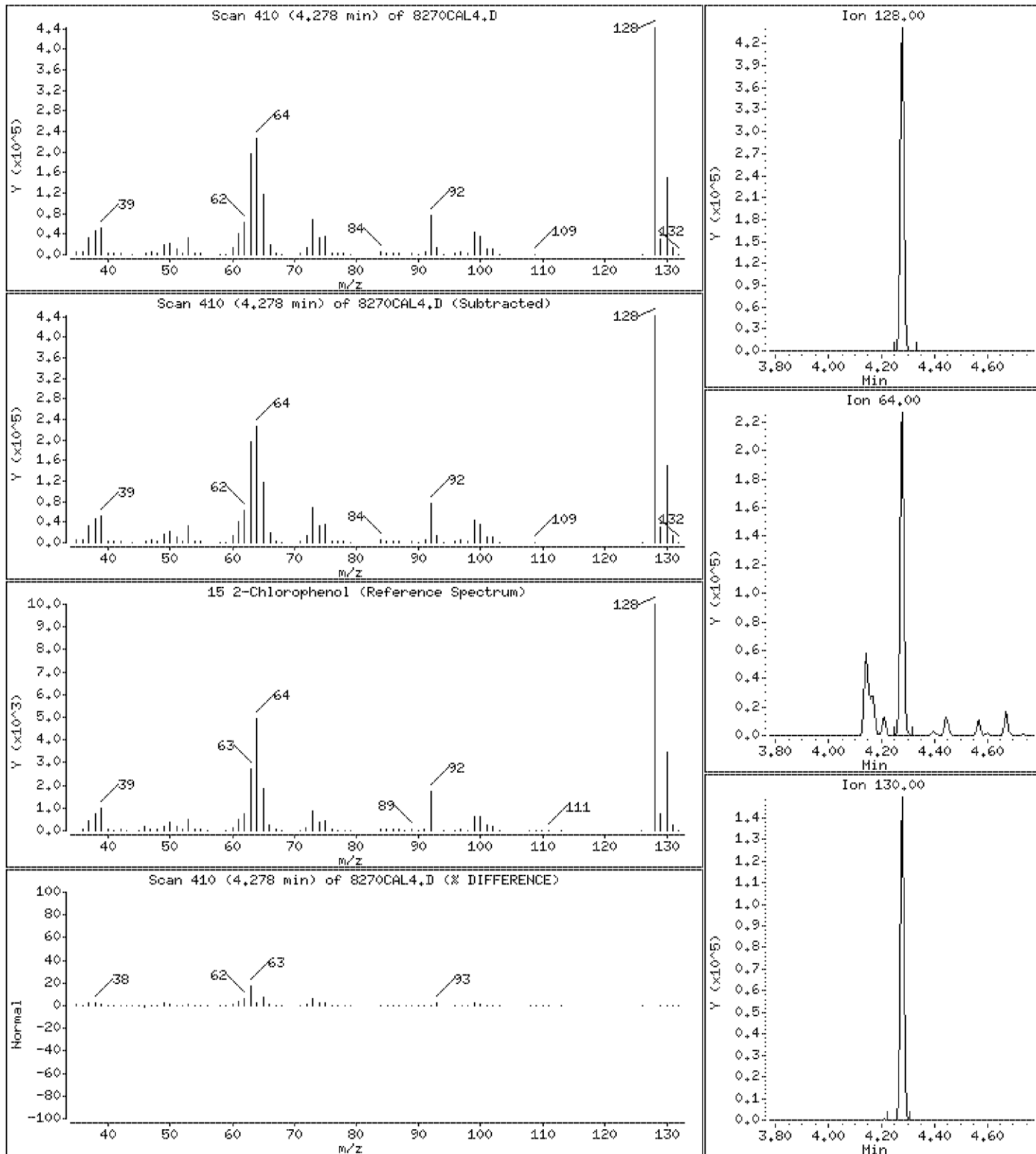
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

15 2-Chlorophenol

Concentration: 46.7 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

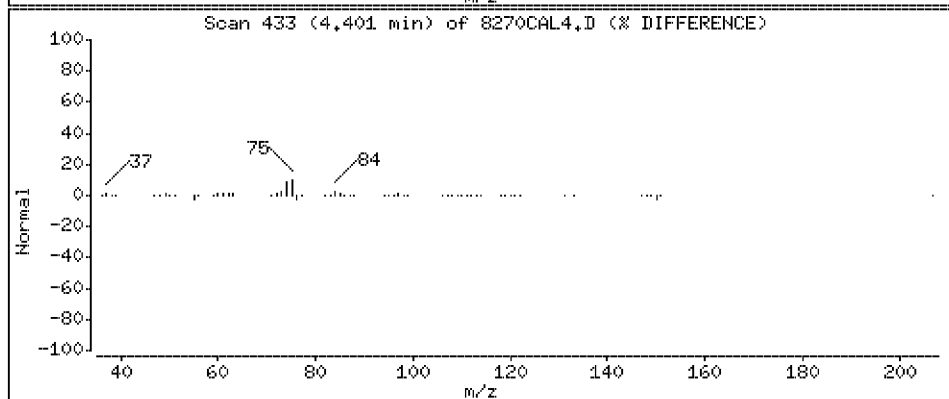
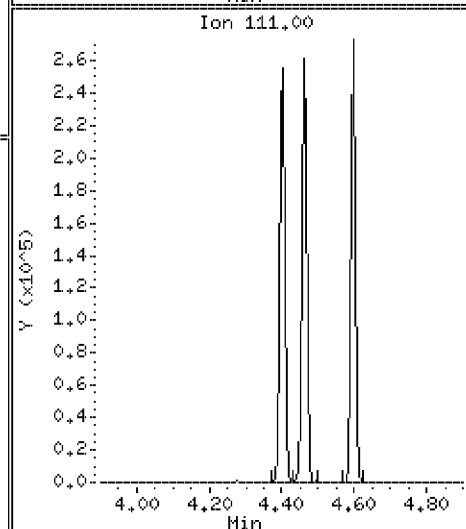
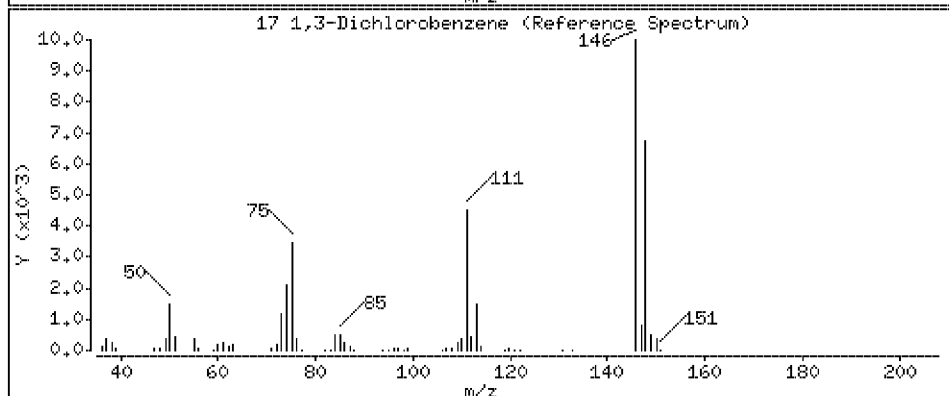
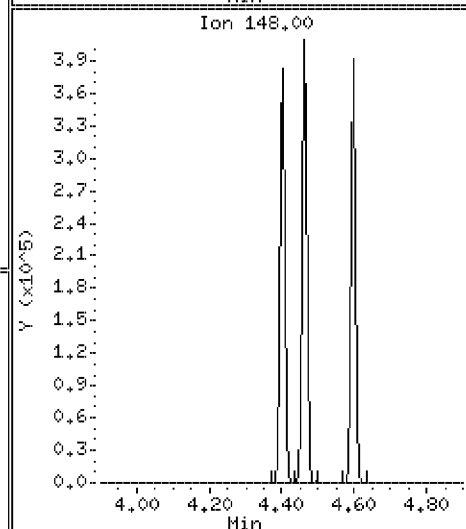
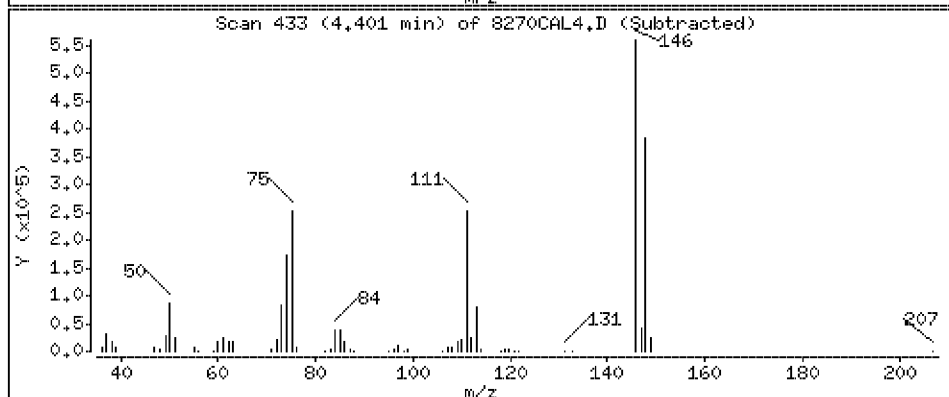
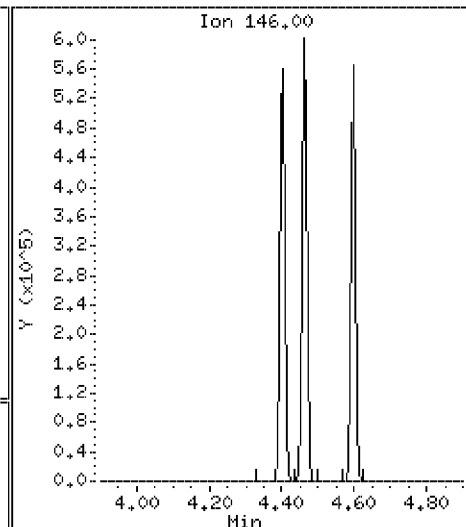
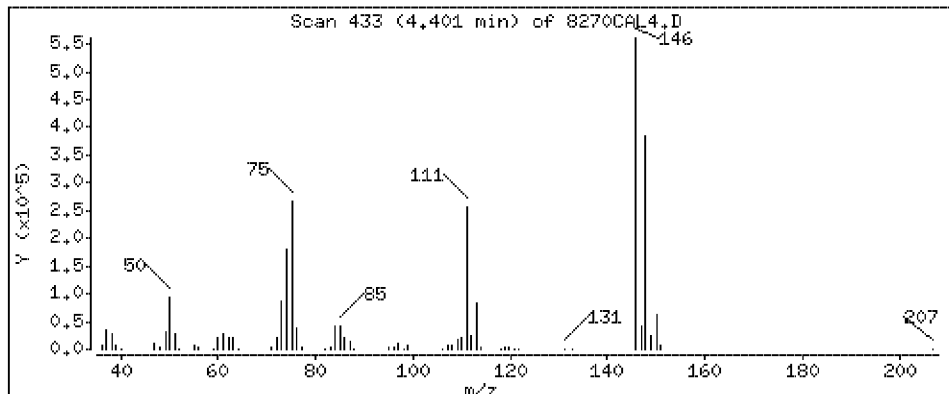
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

17 1,3-Dichlorobenzene

Concentration: 46.2 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

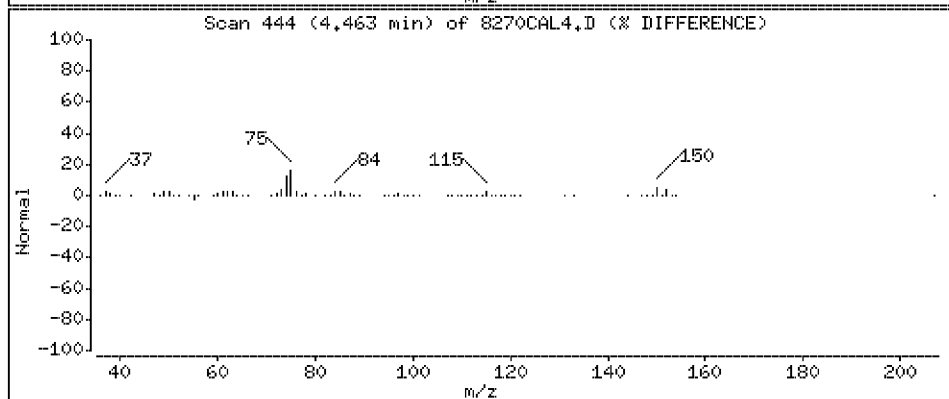
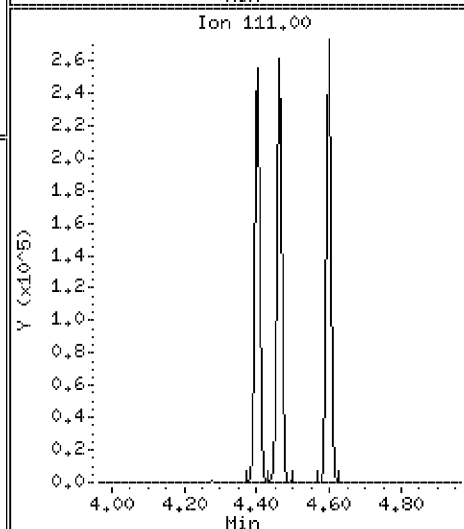
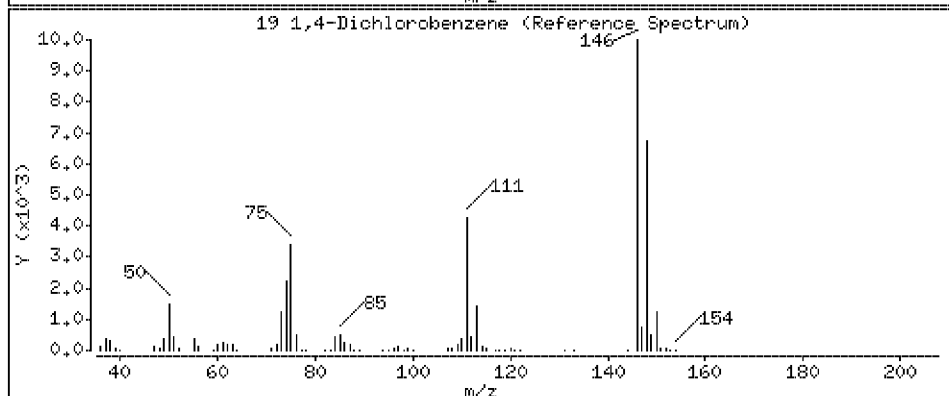
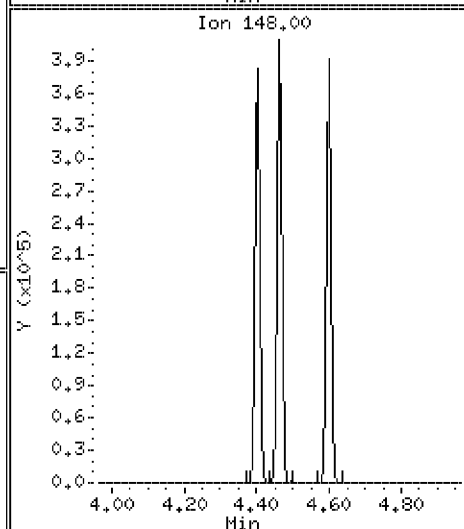
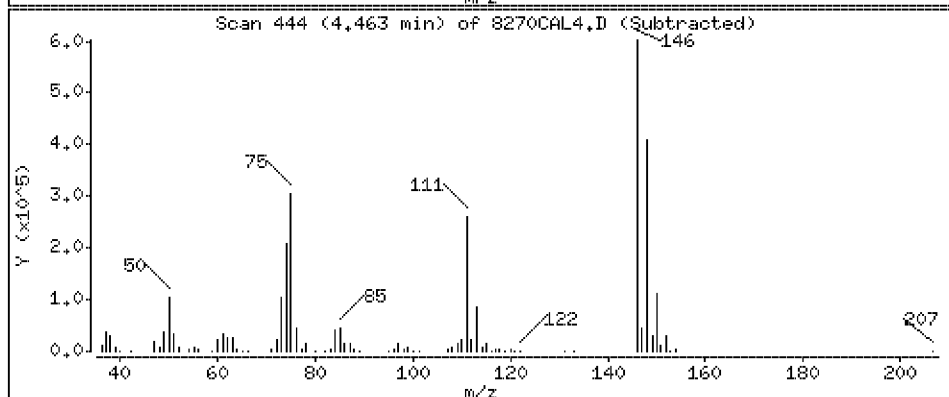
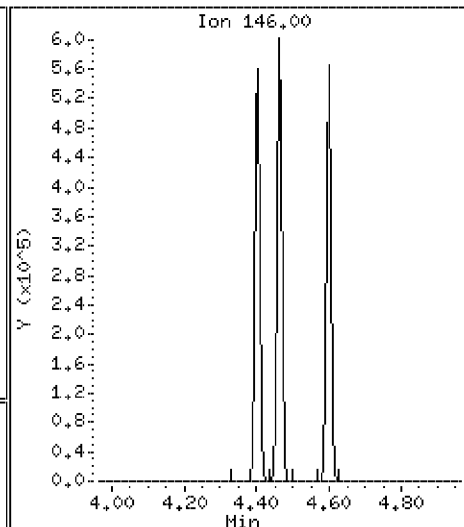
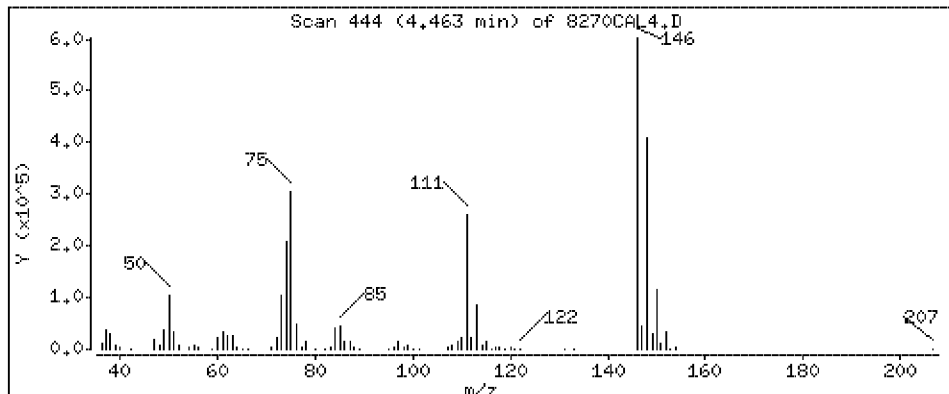
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

19 1,4-Dichlorobenzene

Concentration: 45.7 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

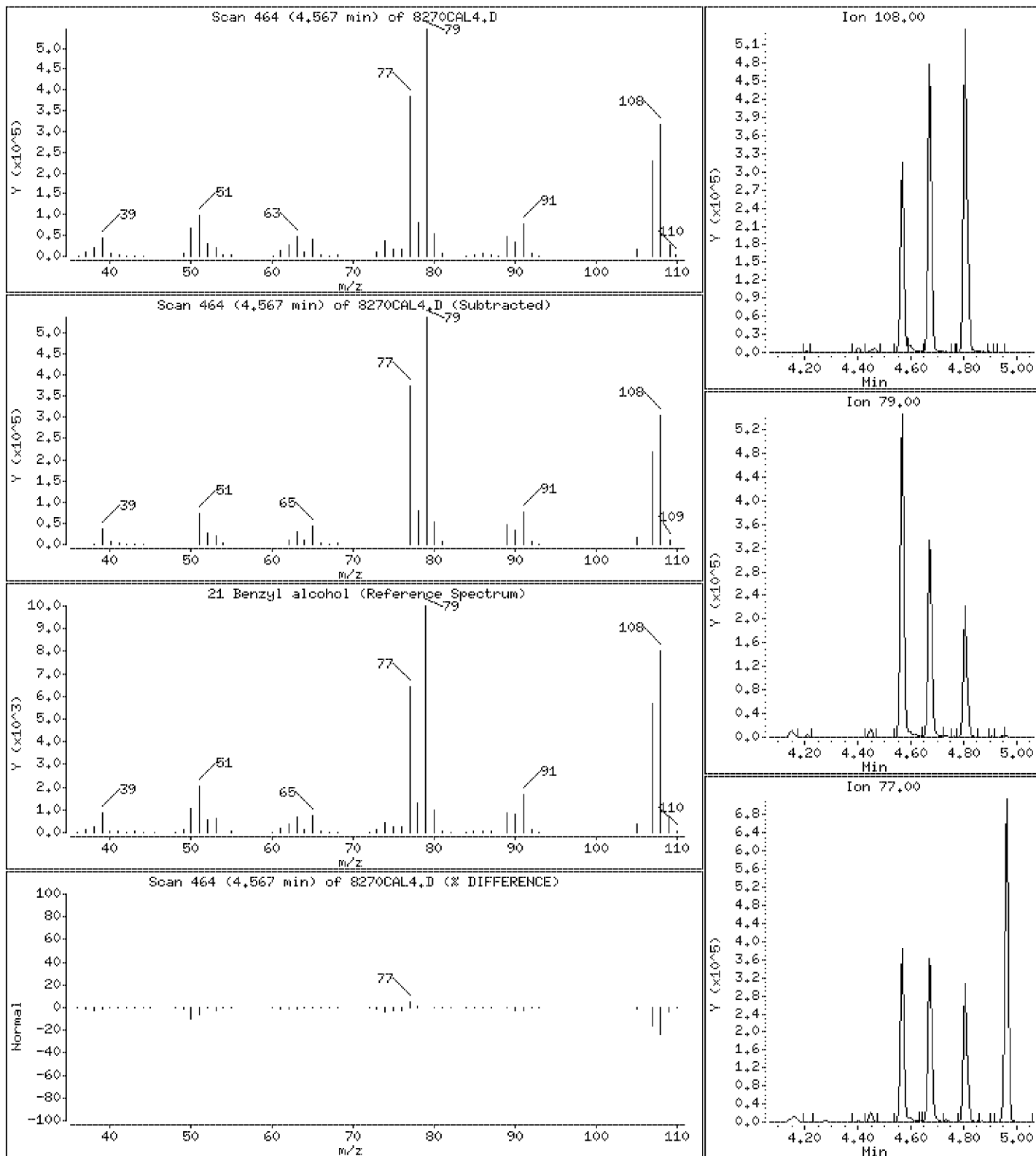
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

21 Benzyl alcohol

Concentration: 45.1 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

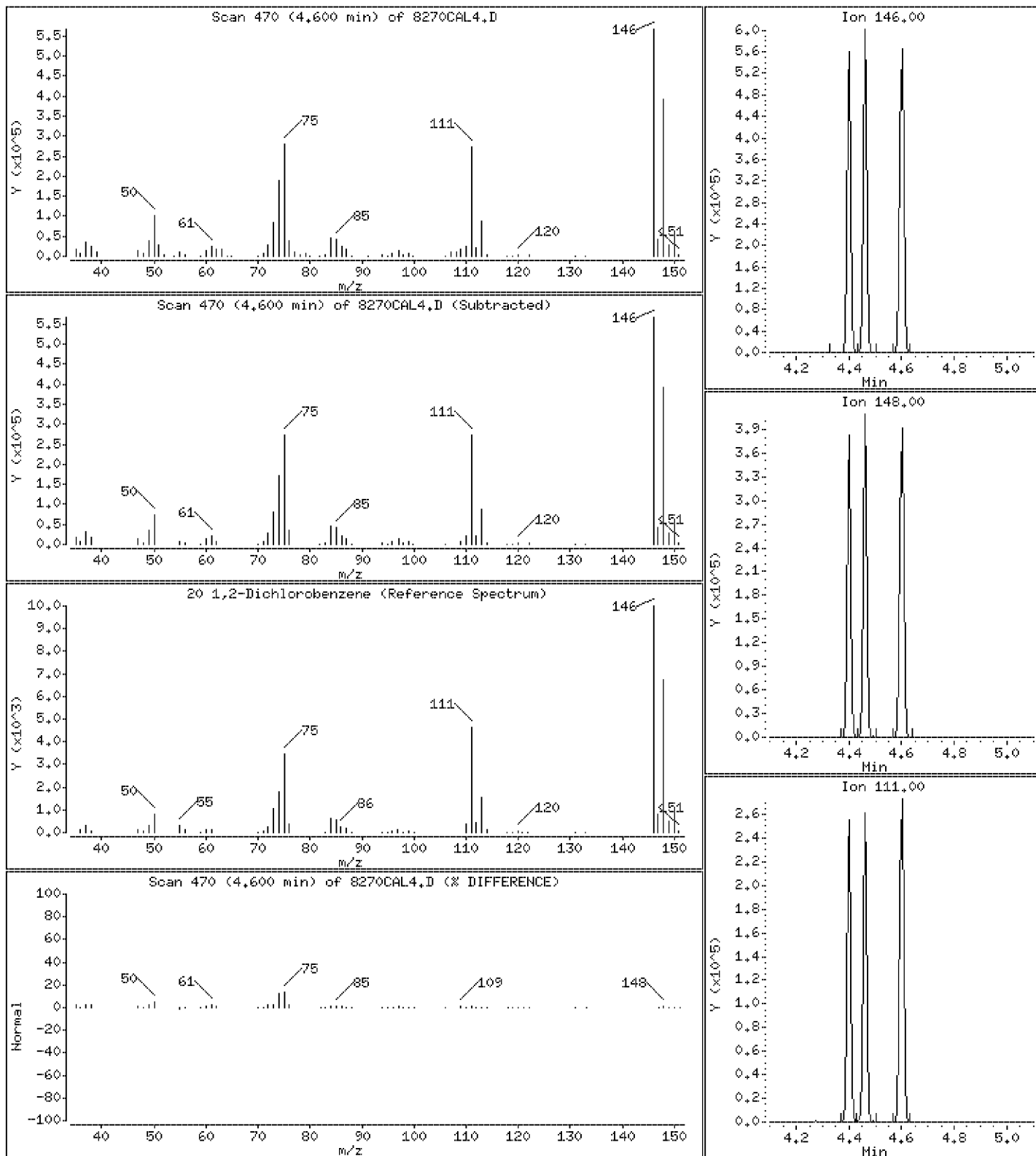
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

20 1,2-Dichlorobenzene

Concentration: 45.6 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

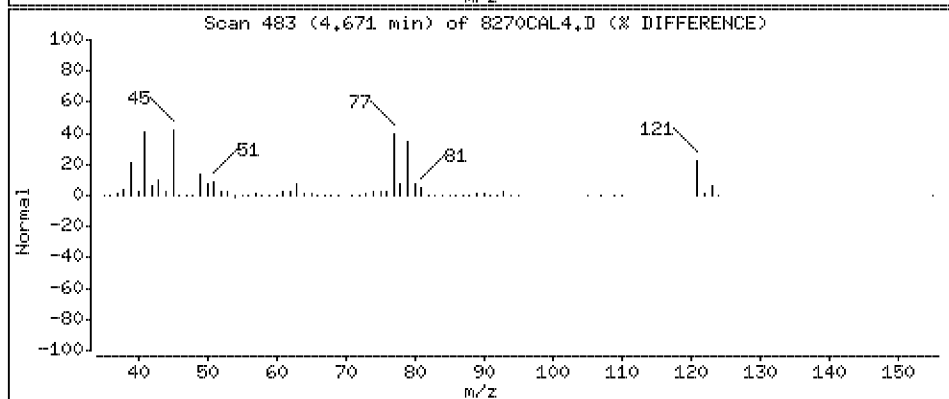
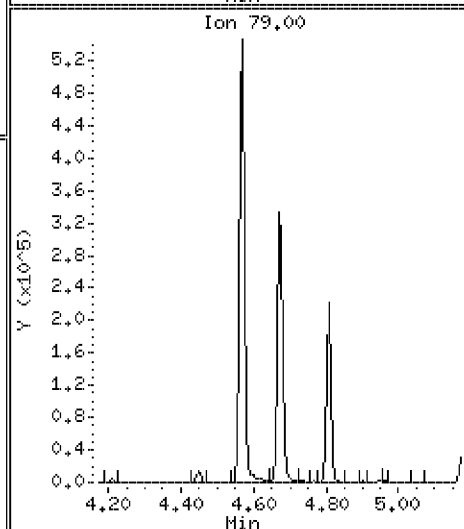
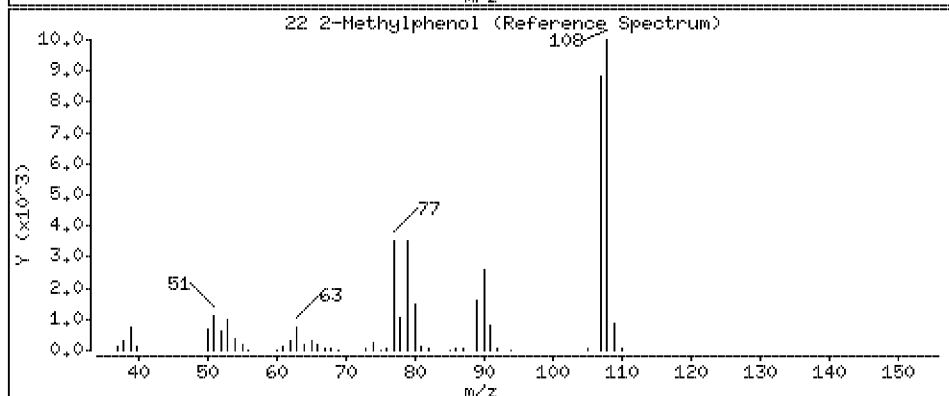
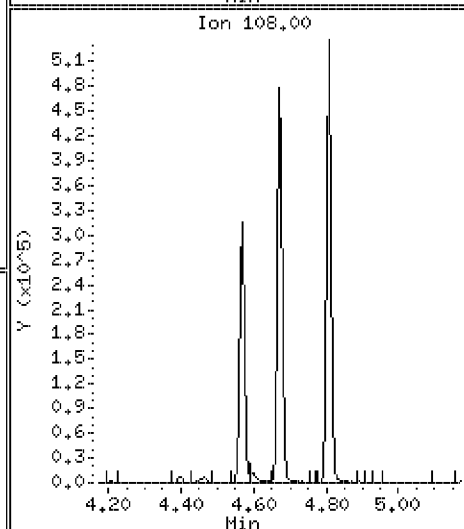
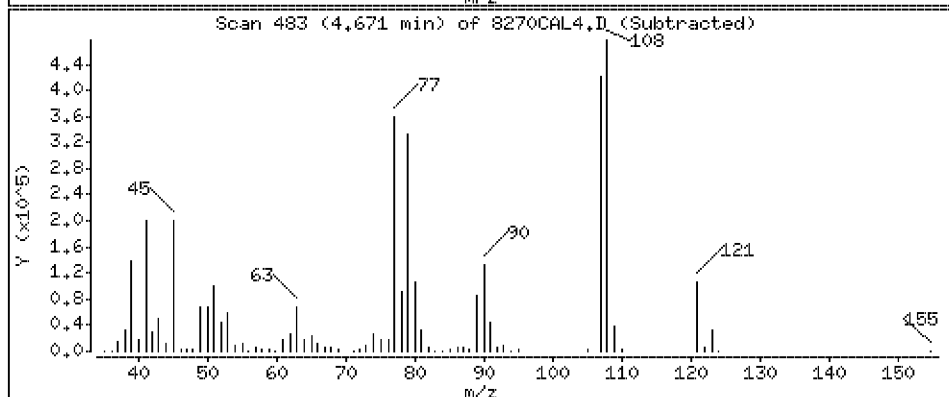
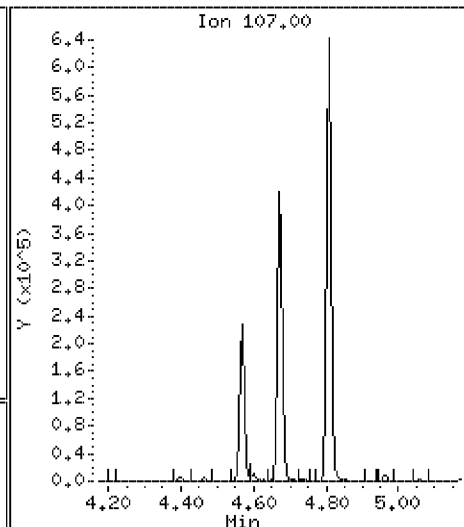
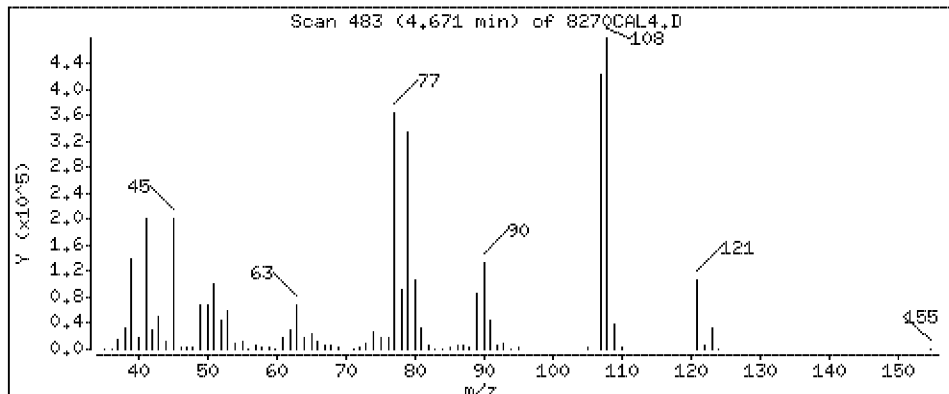
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

22 2-Methylphenol

Concentration: 46.8 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

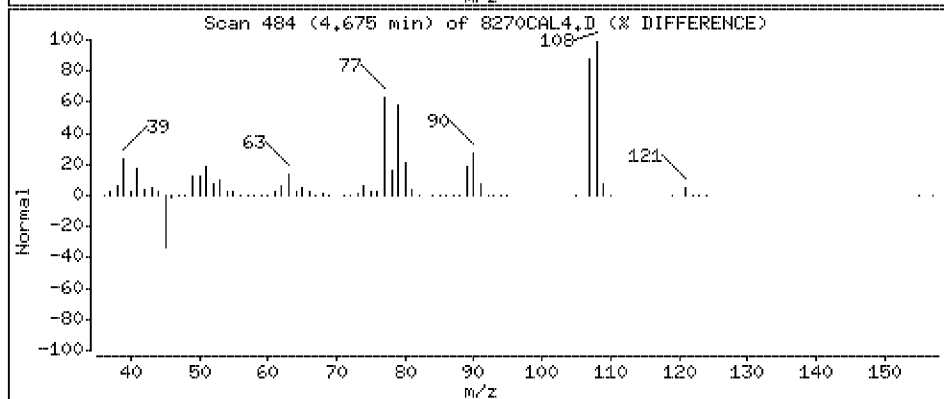
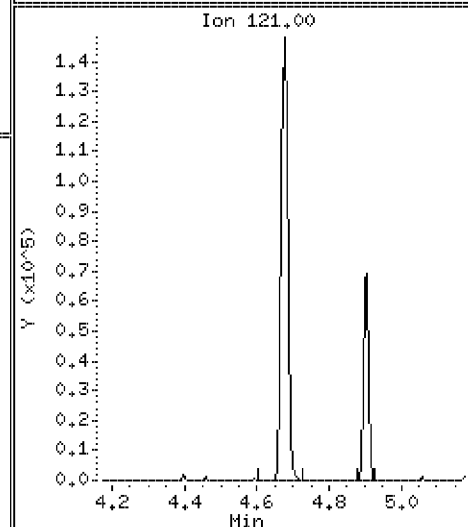
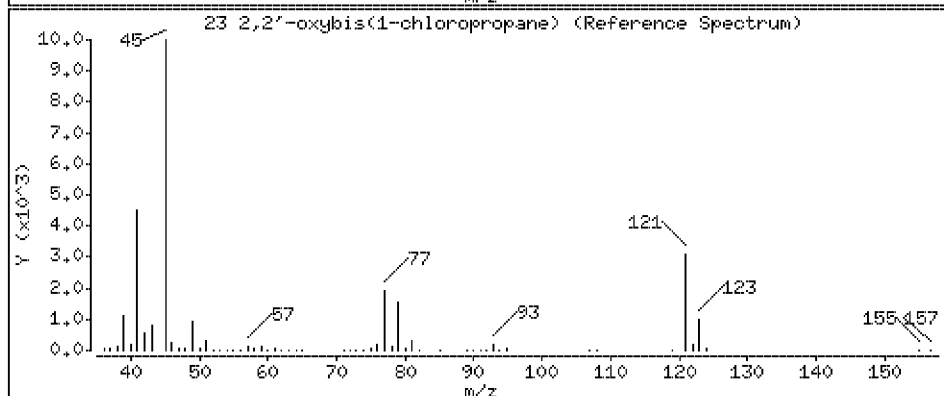
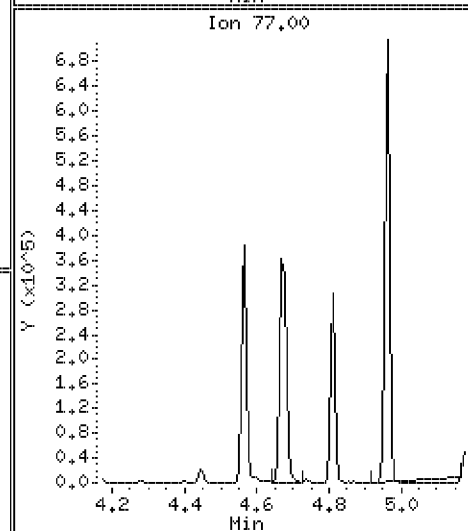
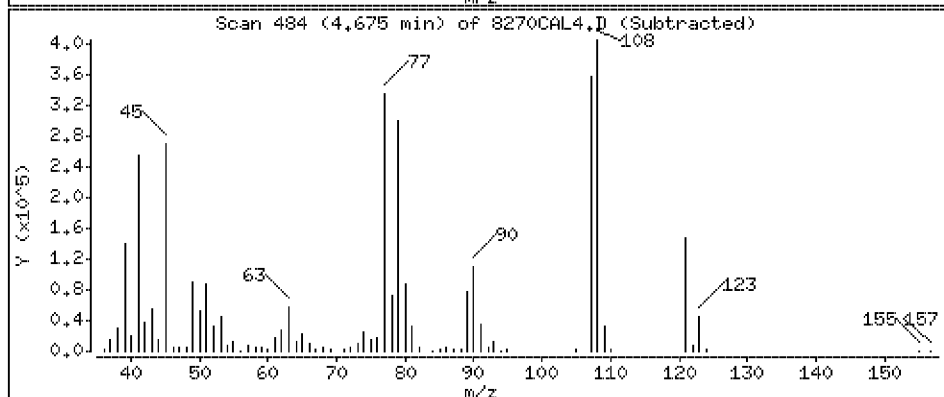
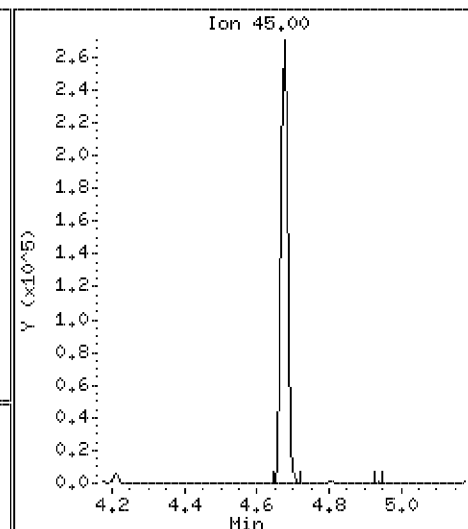
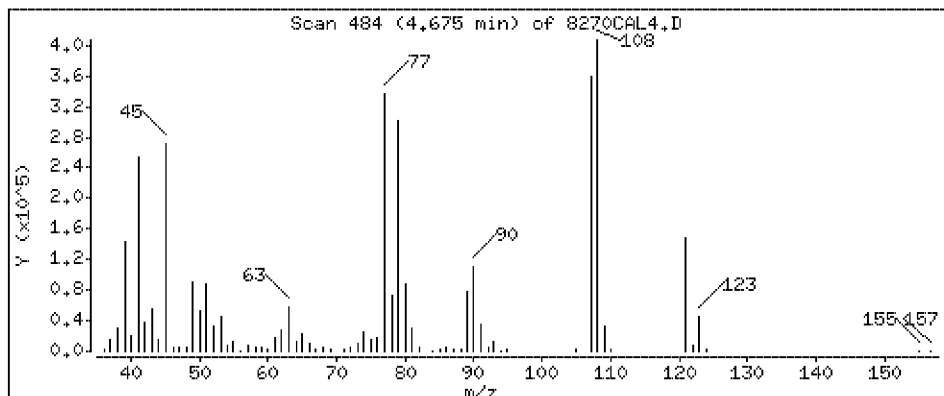
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

23 2,2'-oxybis(1-chloropropane)

Concentration: 46.0 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

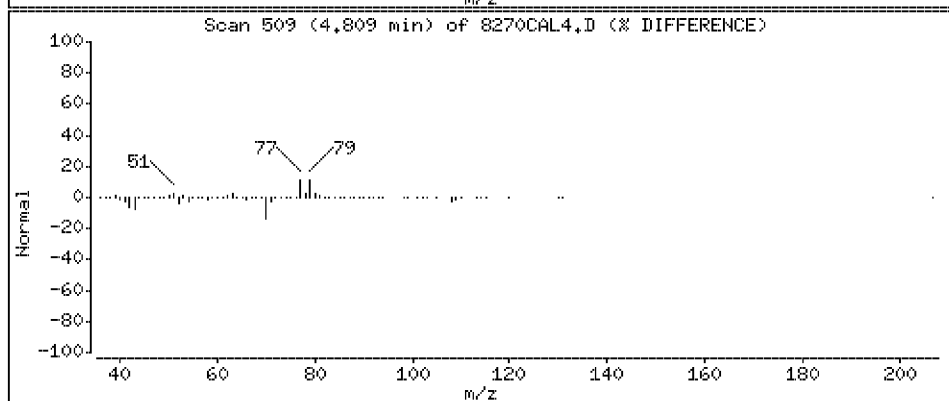
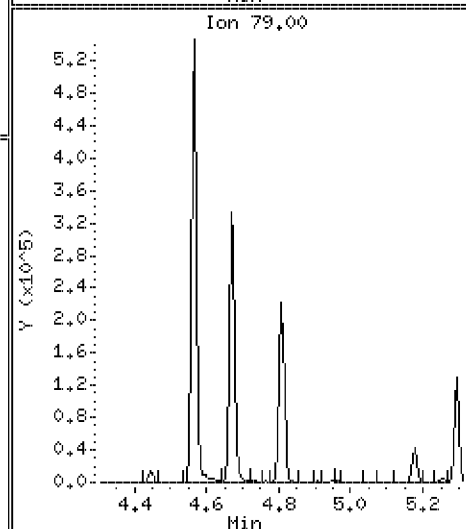
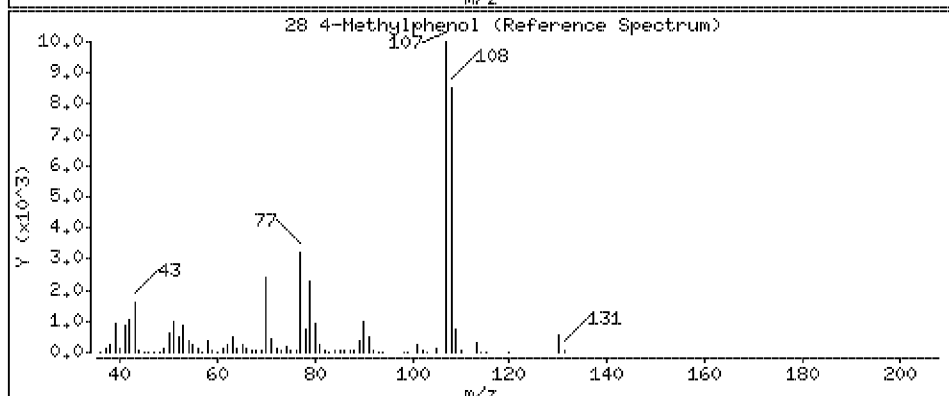
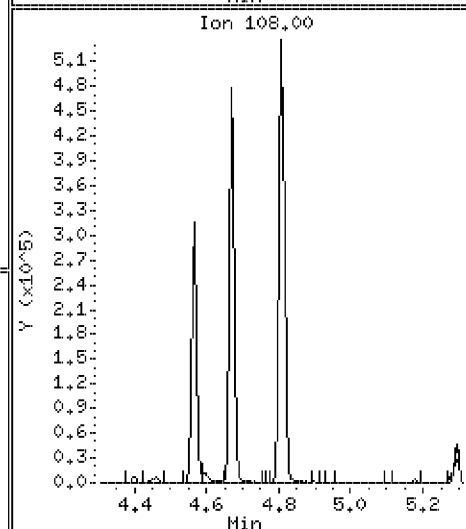
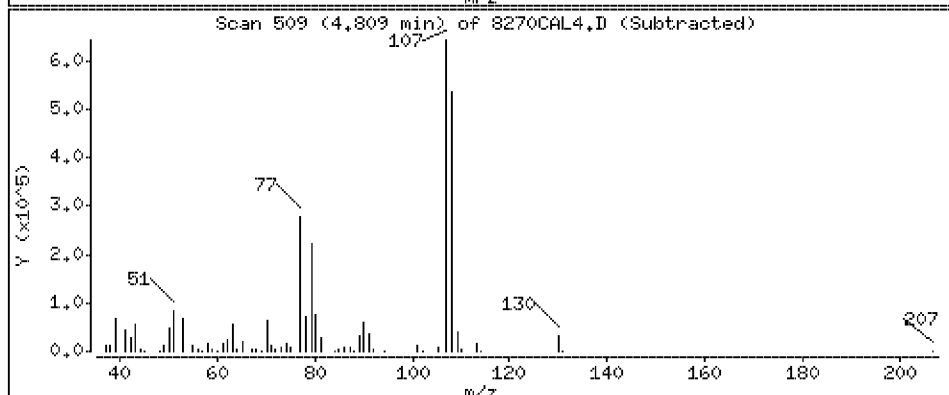
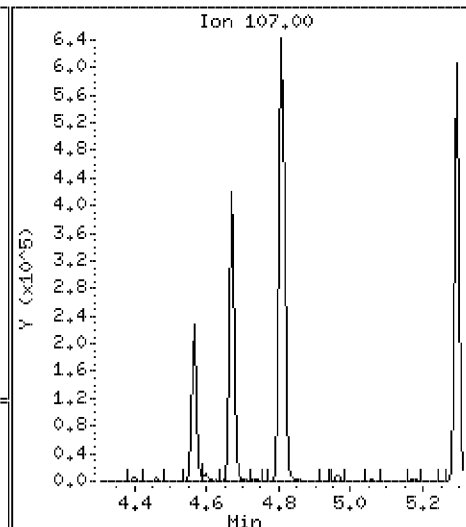
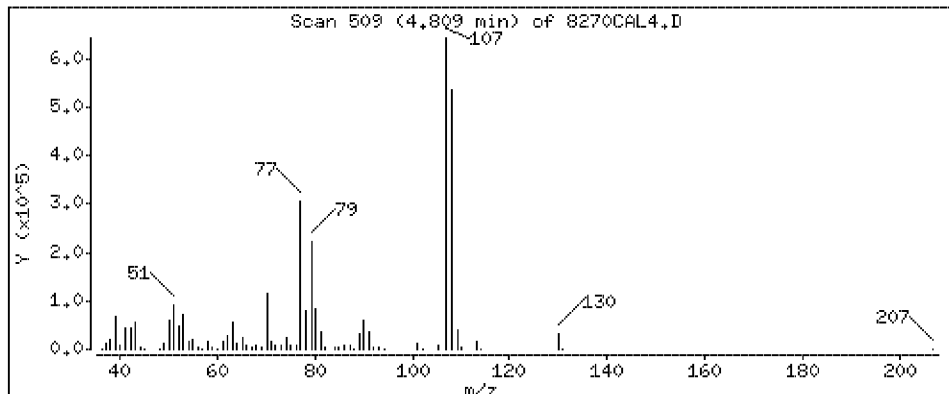
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

28 4-Methylphenol

Concentration: 46.2 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

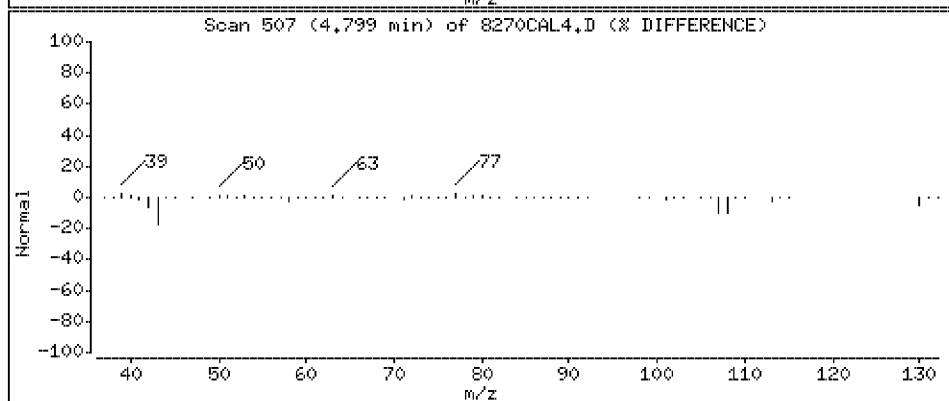
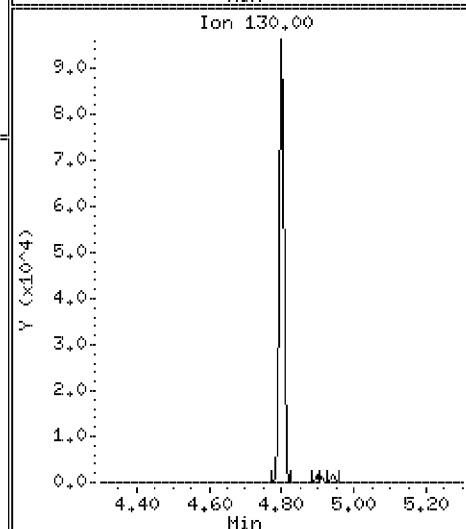
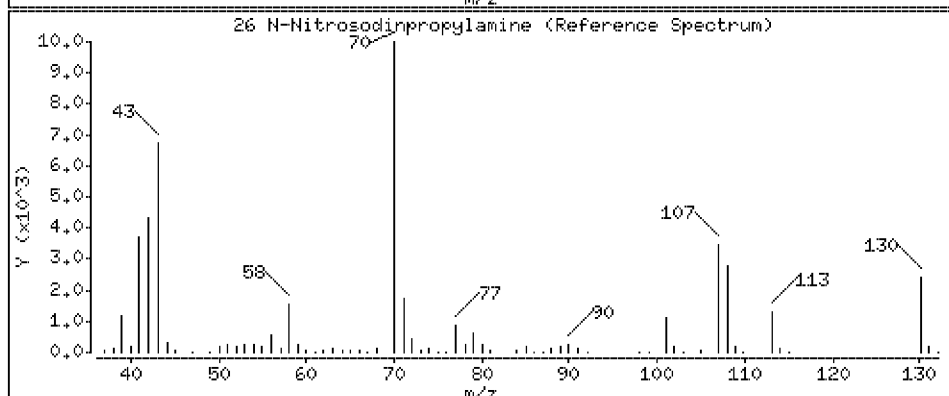
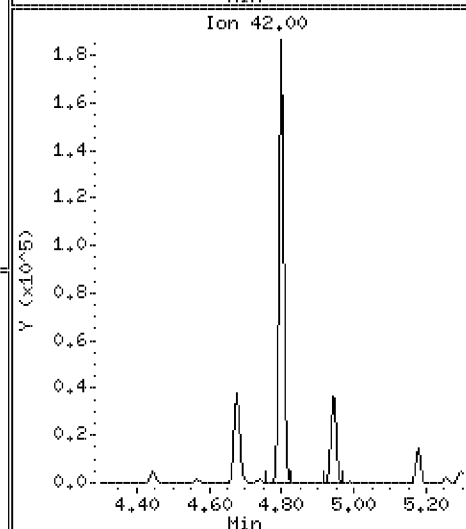
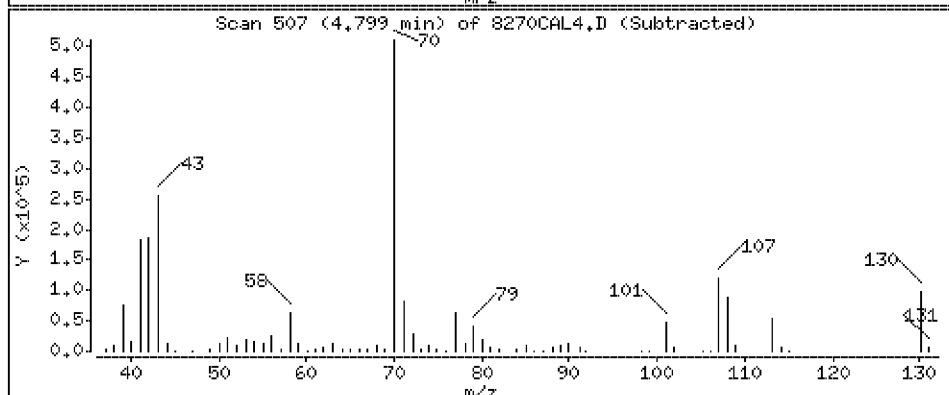
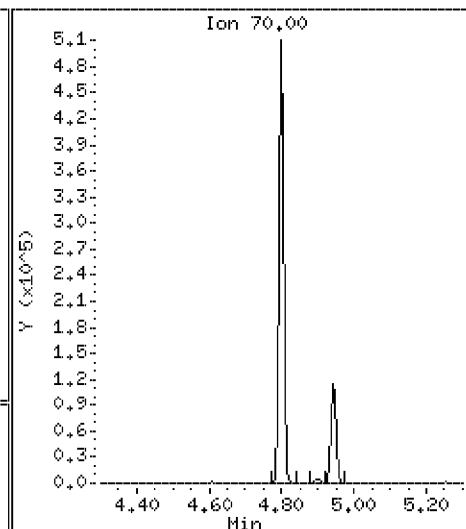
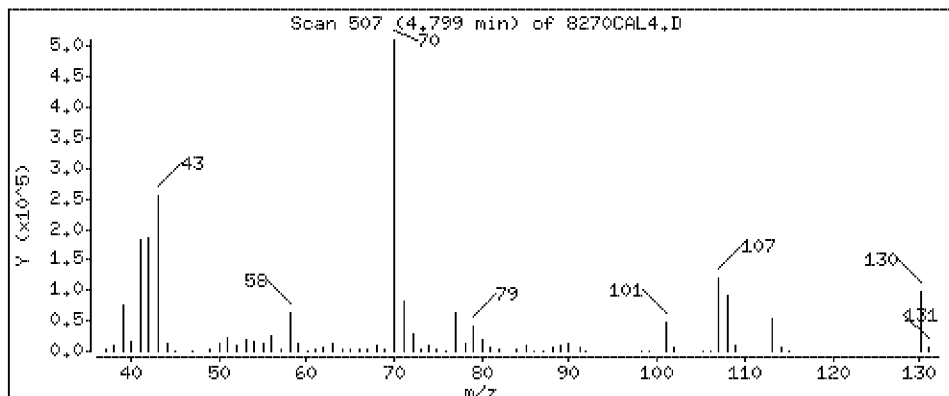
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

26 N-Nitrosodipropylamine

Concentration: 47.2 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

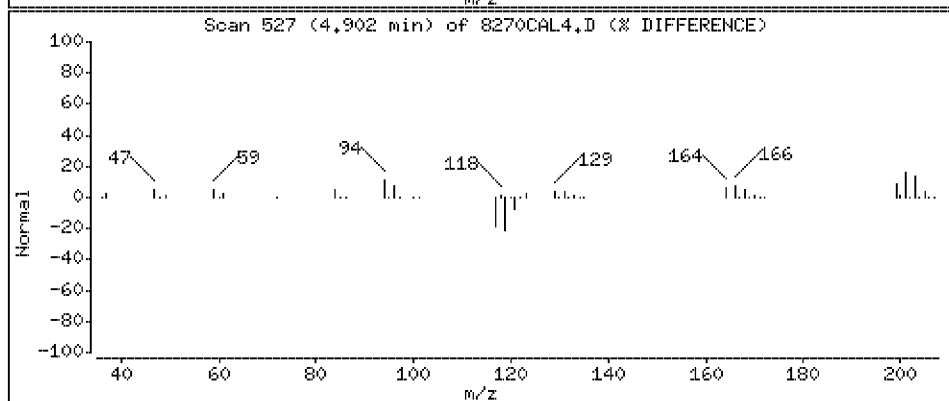
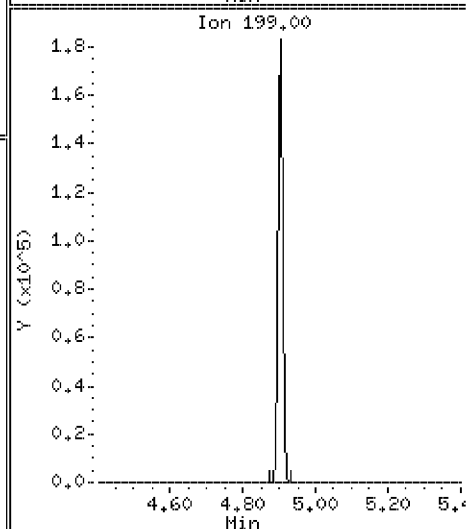
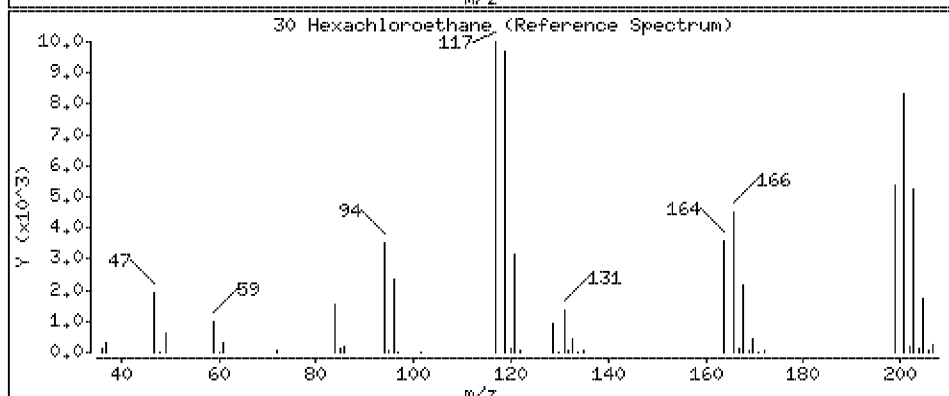
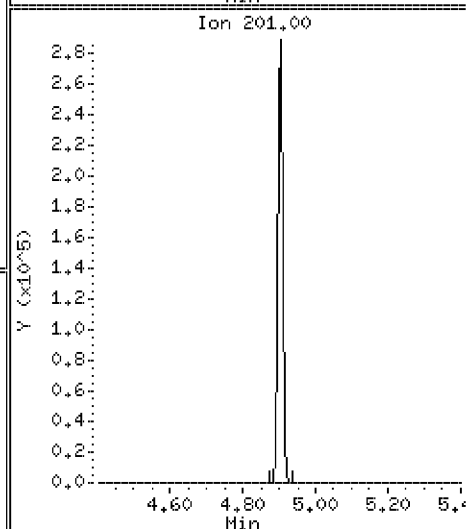
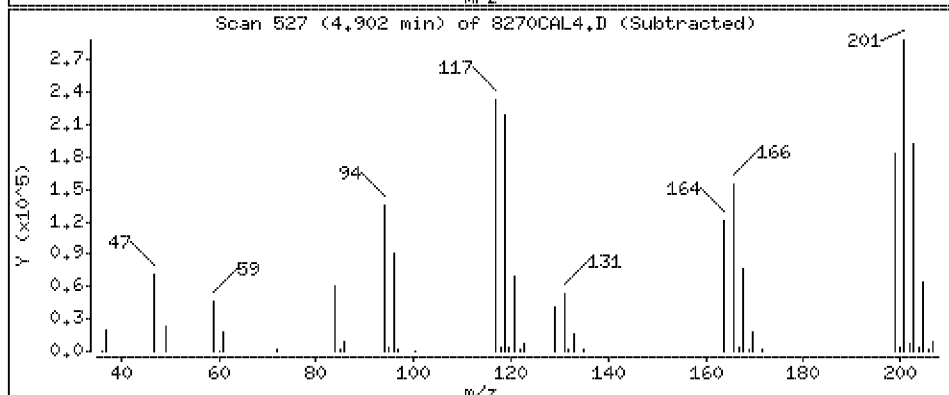
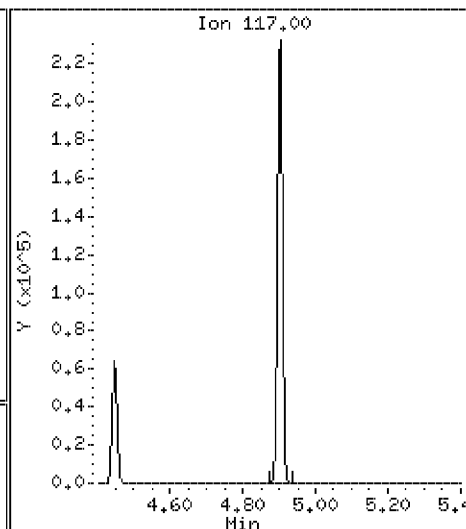
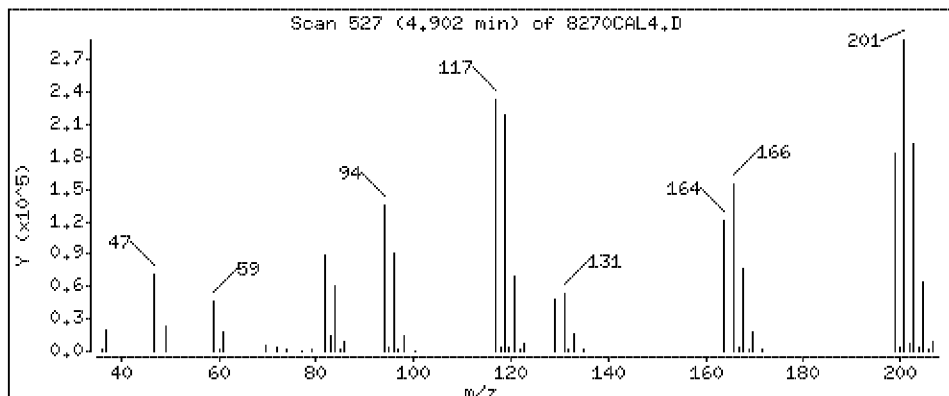
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

30 Hexachloroethane

Concentration: 46.4 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

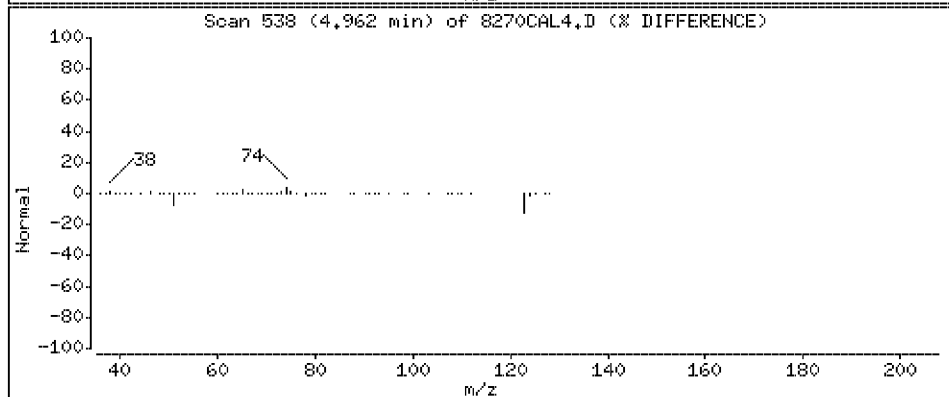
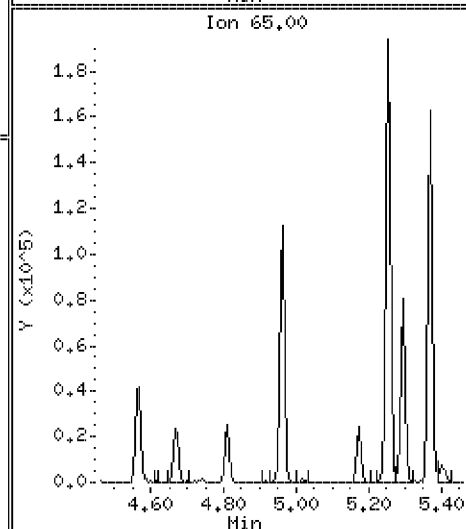
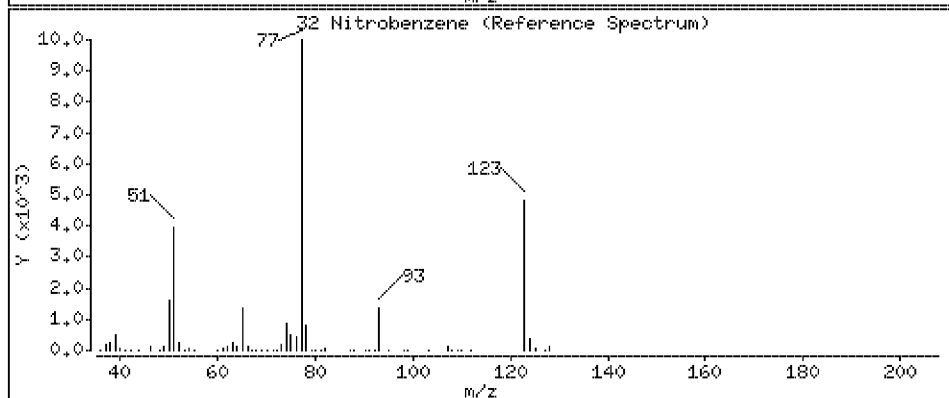
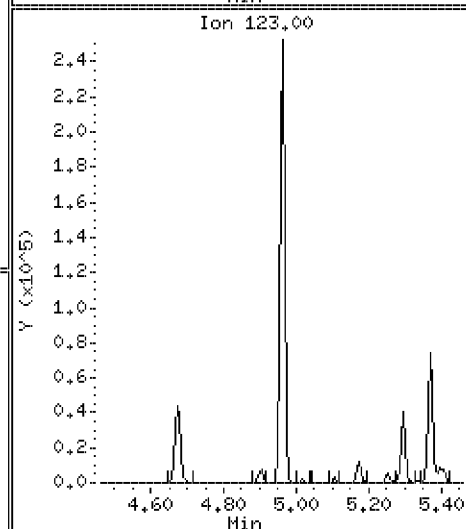
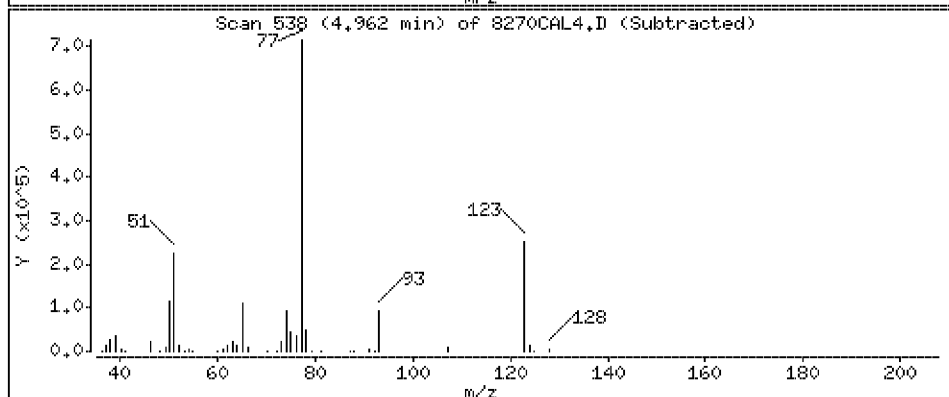
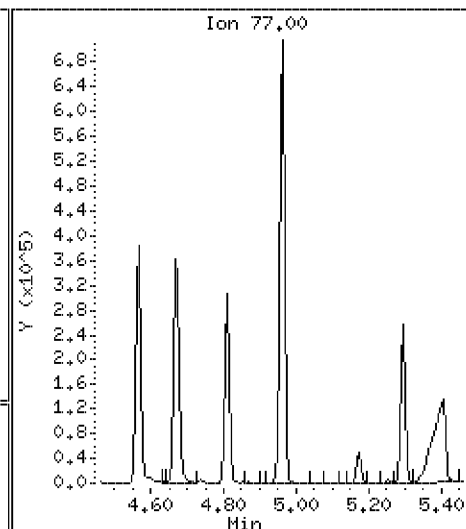
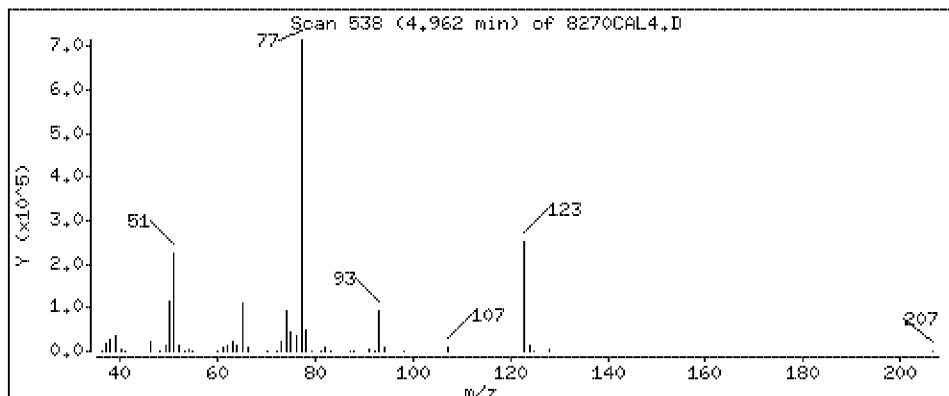
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

32 Nitrobenzene

Concentration: 45.9 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

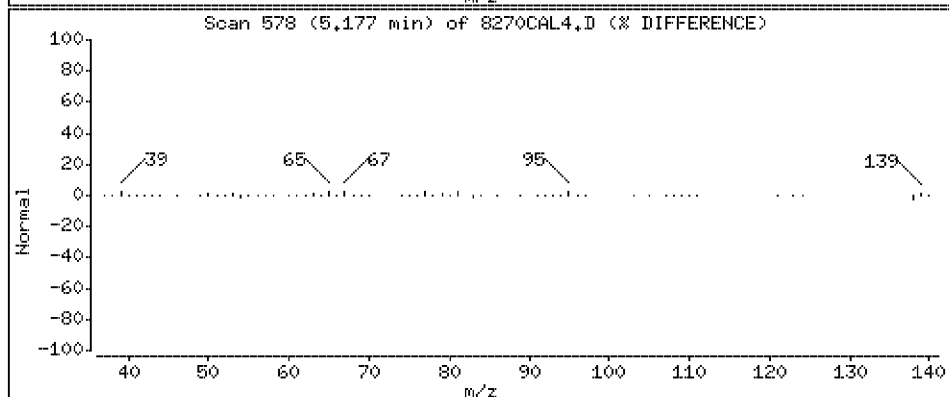
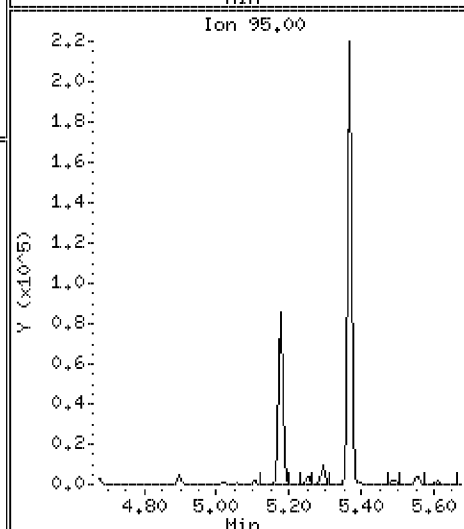
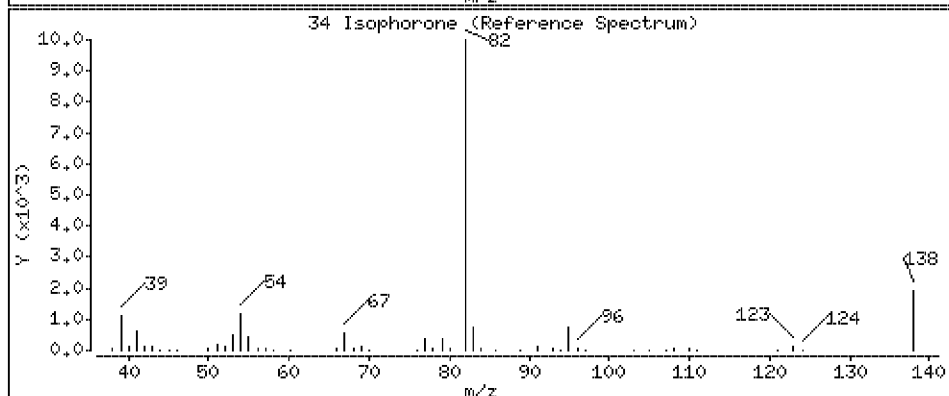
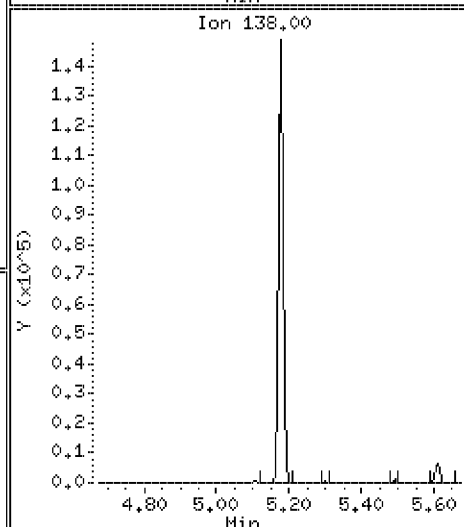
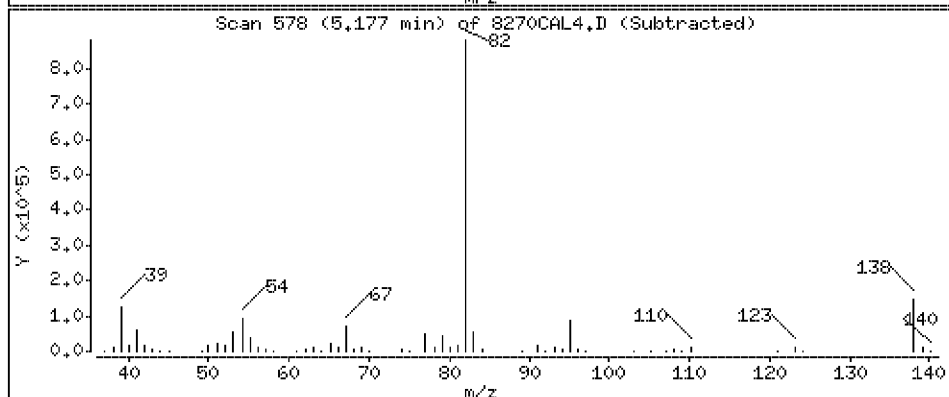
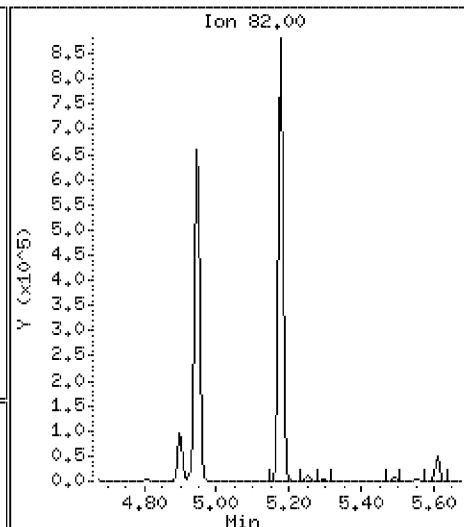
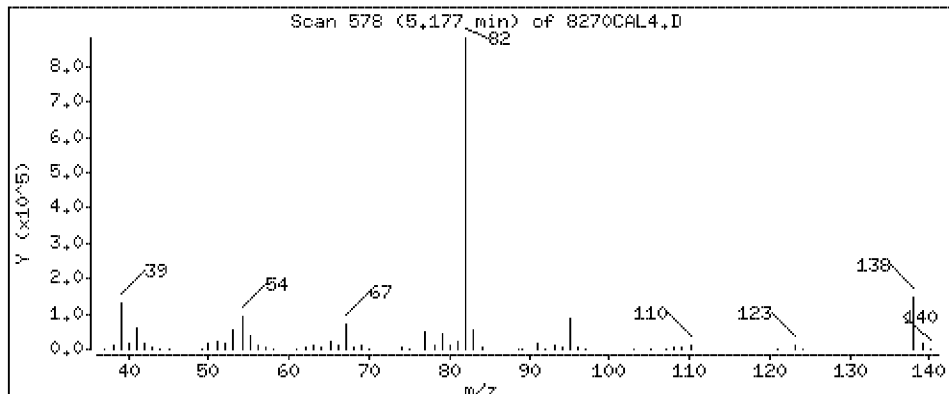
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

34 Isophorone

Concentration: 45.4 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

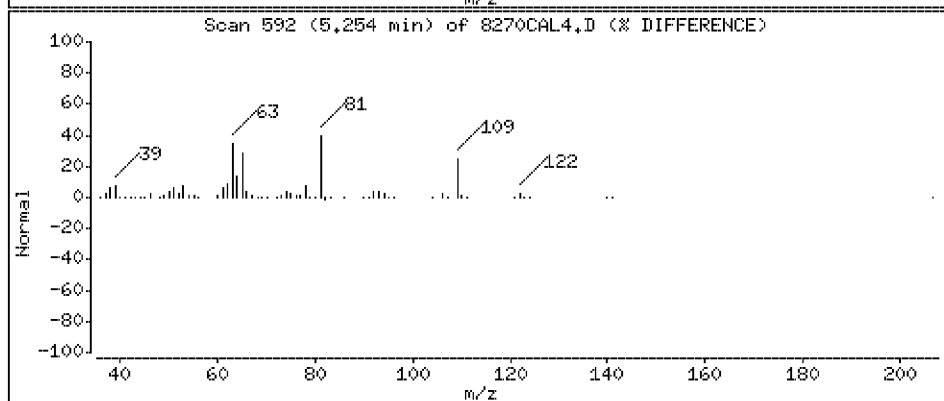
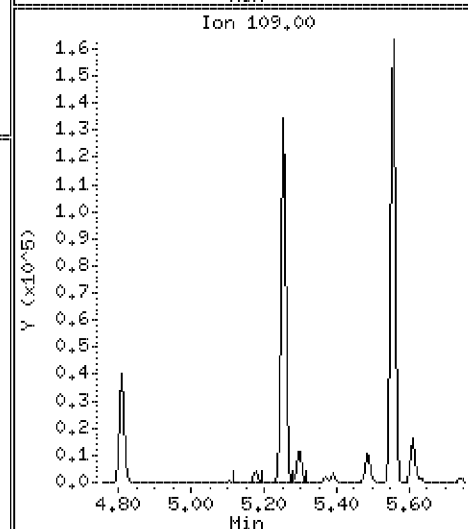
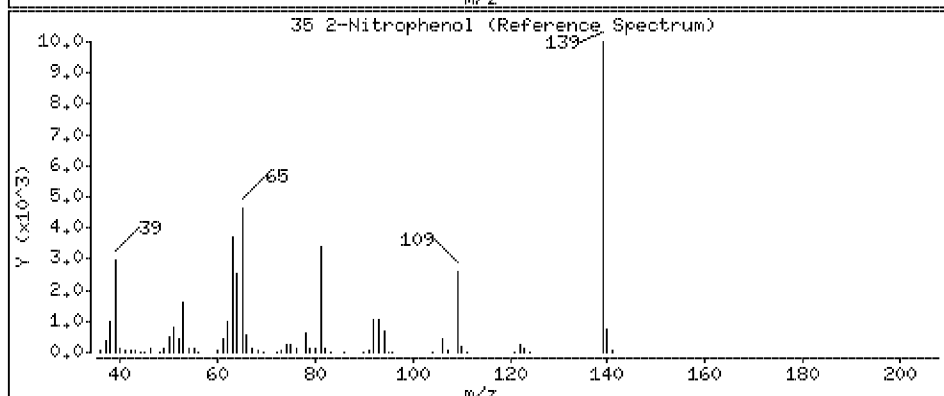
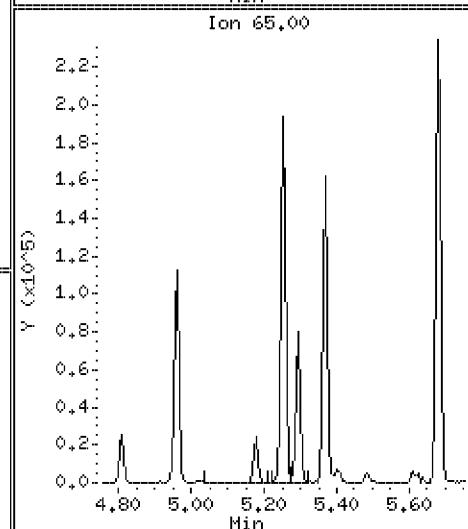
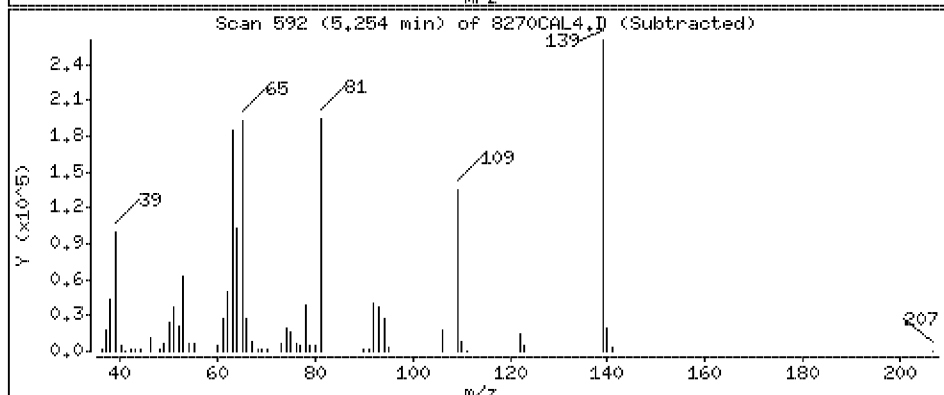
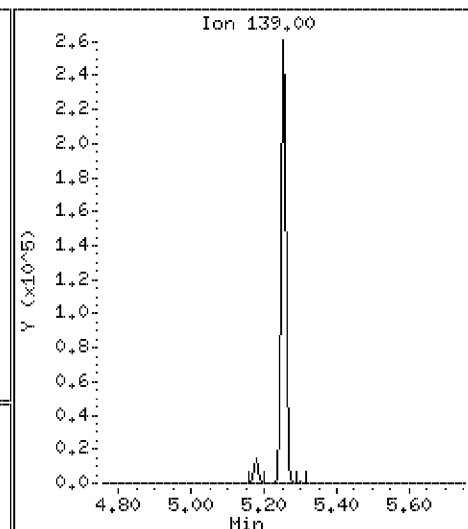
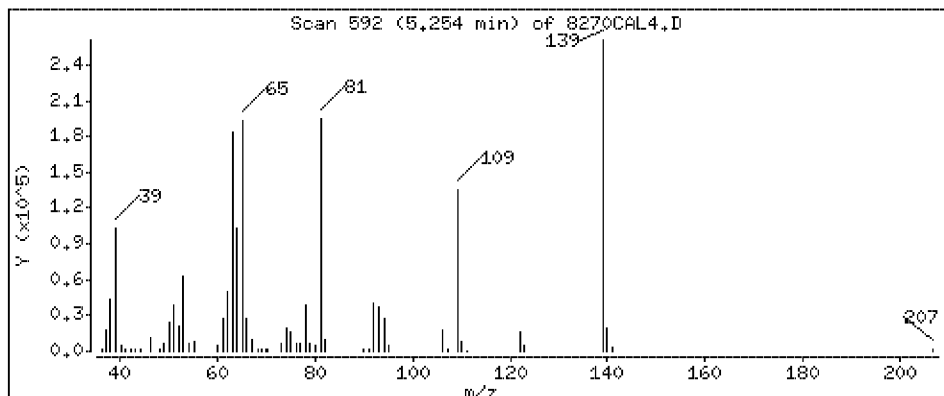
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

35 2-Nitrophenol

Concentration: 45.1 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

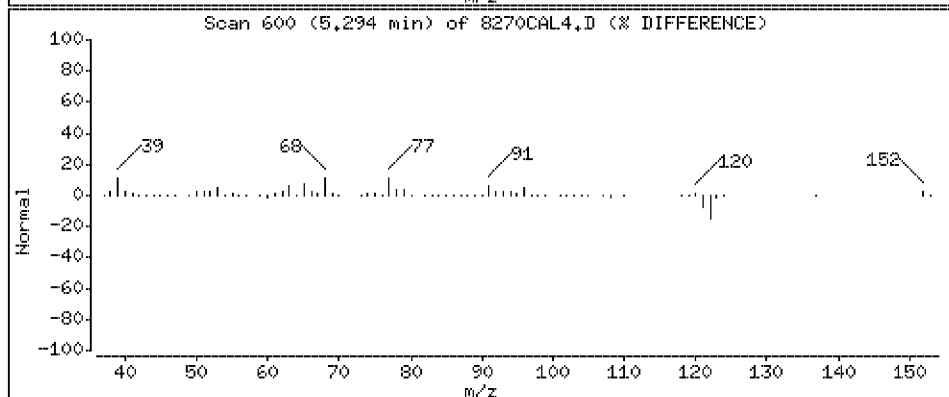
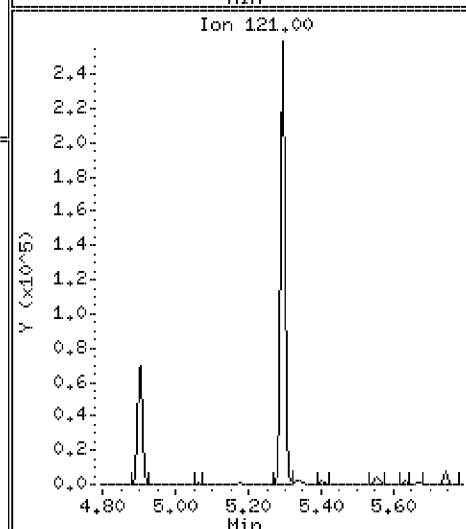
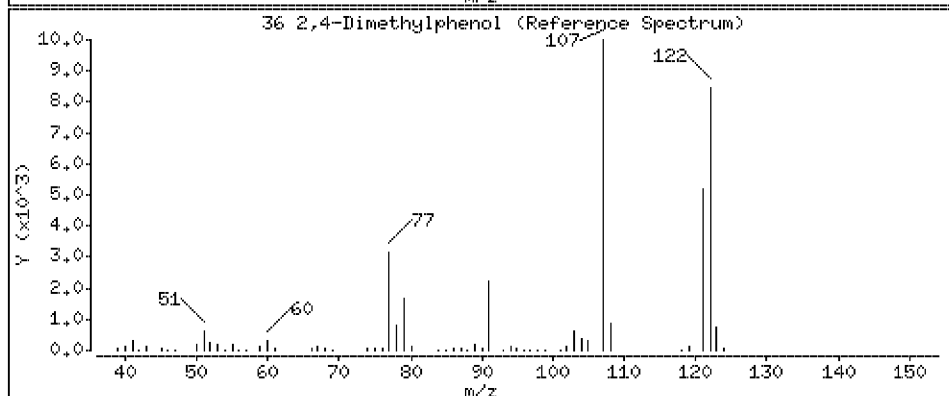
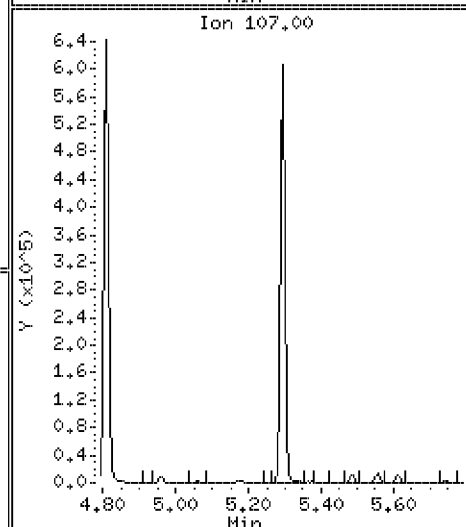
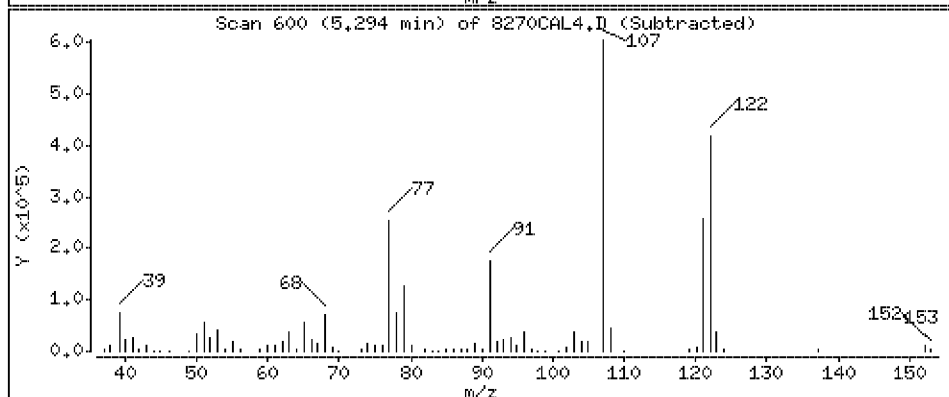
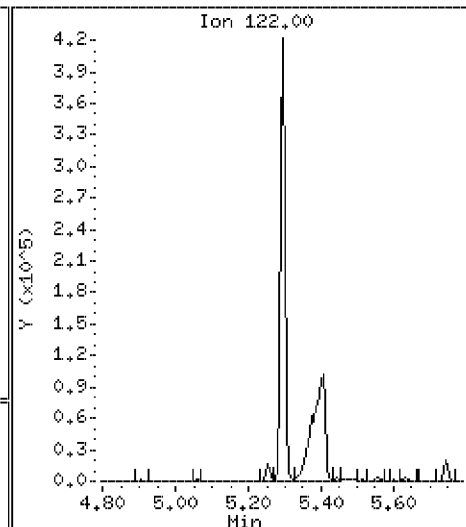
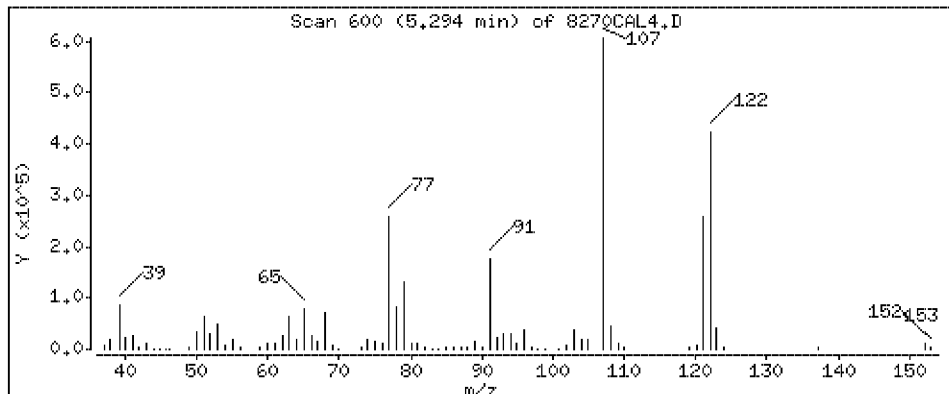
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

36 2,4-Dimethylphenol

Concentration: 45.3 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

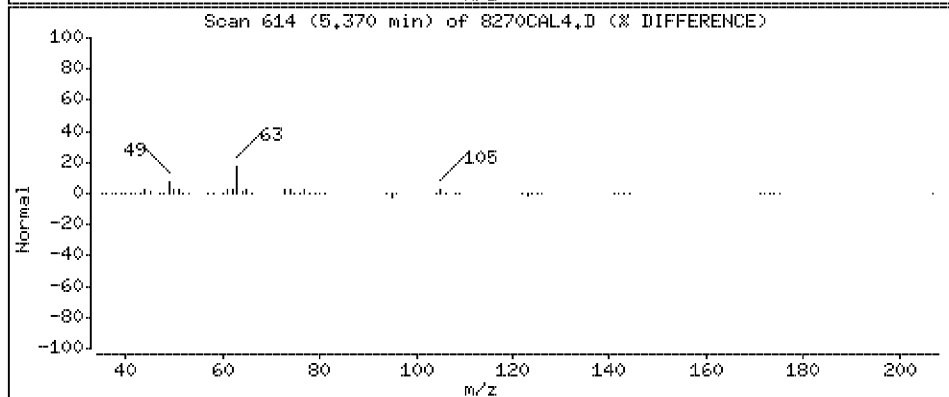
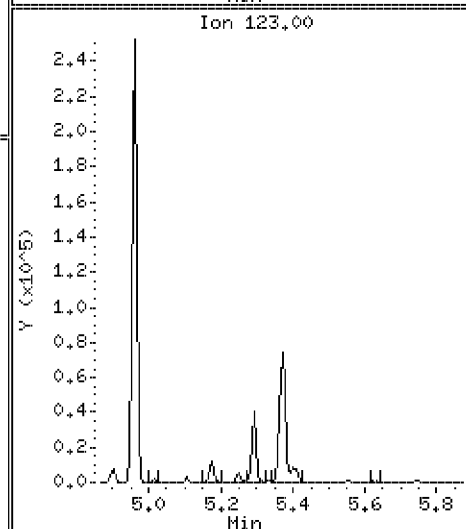
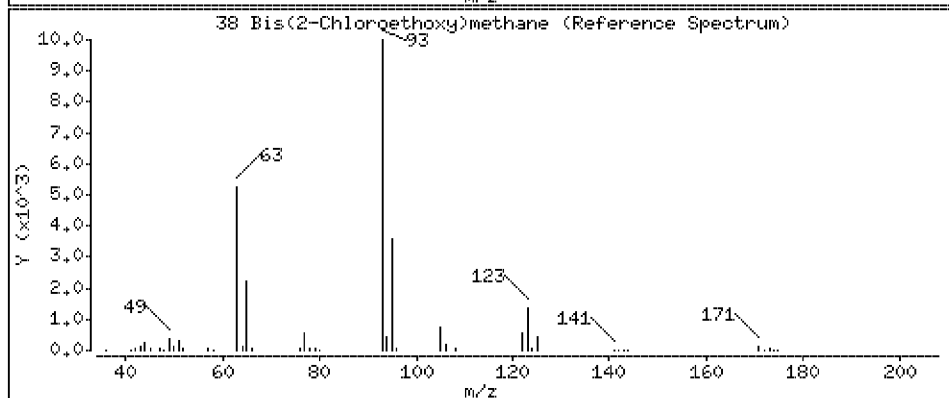
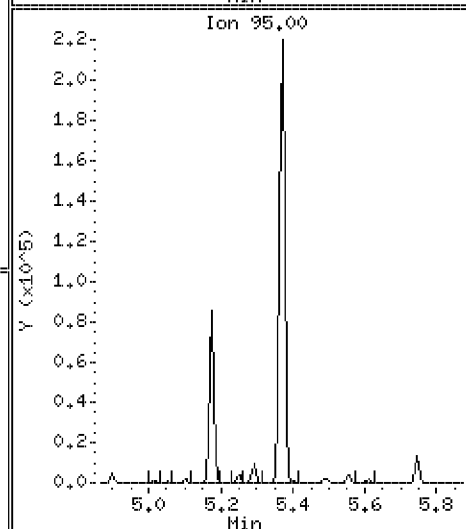
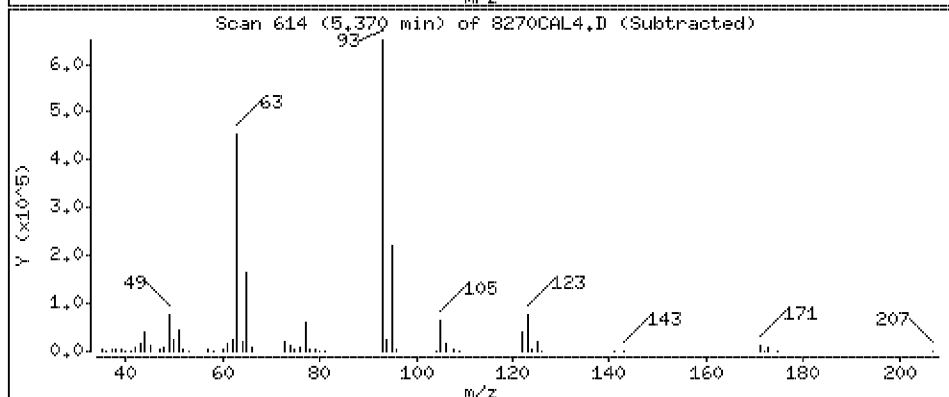
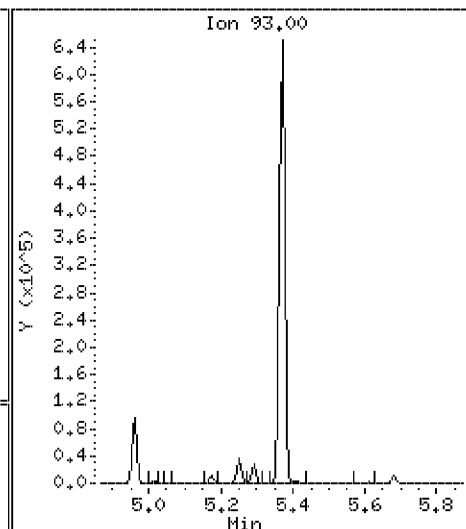
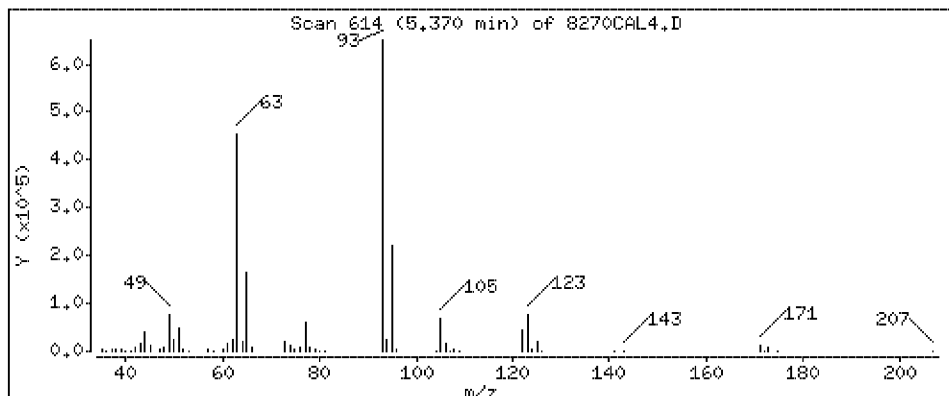
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

38 Bis(2-Chloroethoxy)methane

Concentration: 45.5 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

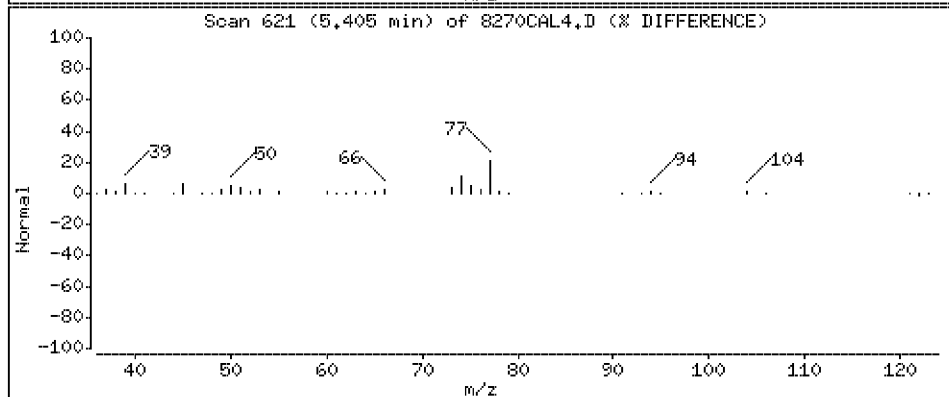
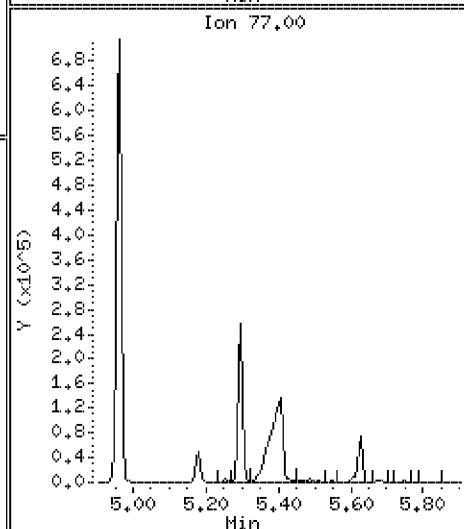
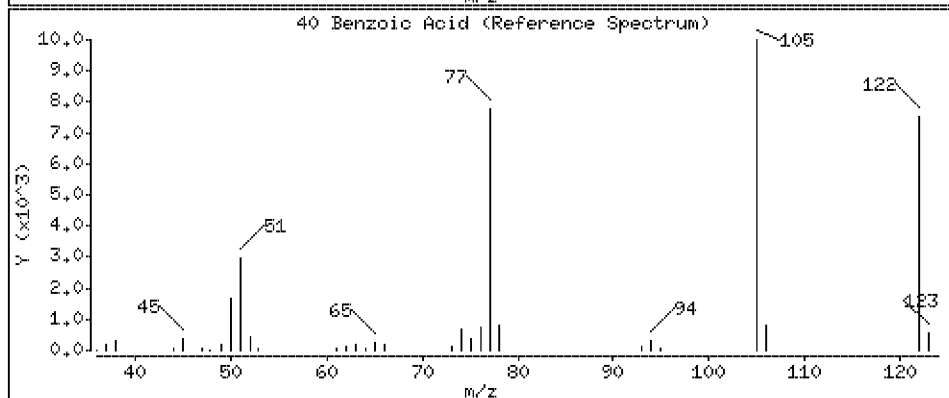
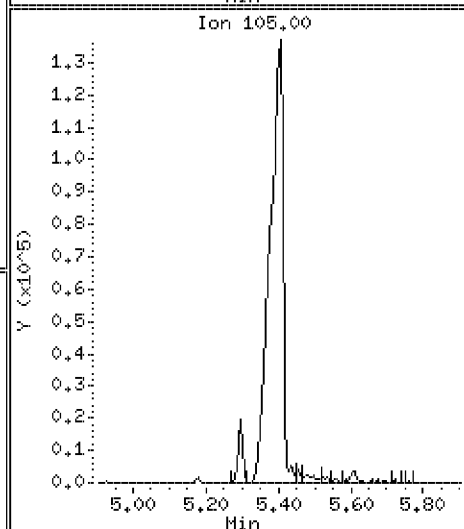
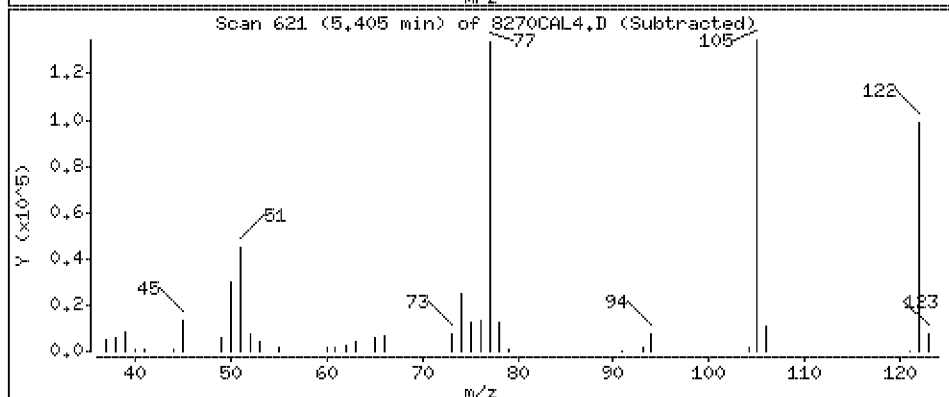
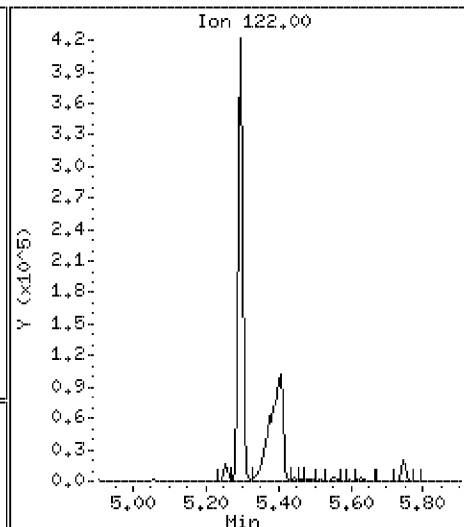
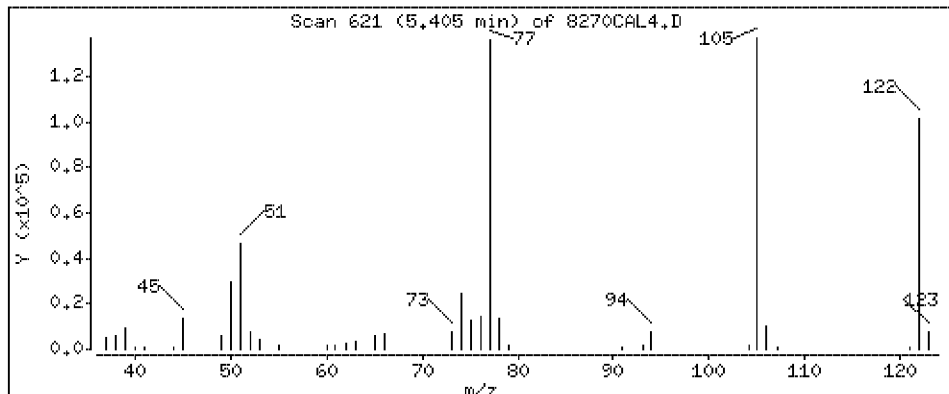
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

40 Benzoic Acid

Concentration: 44.9 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

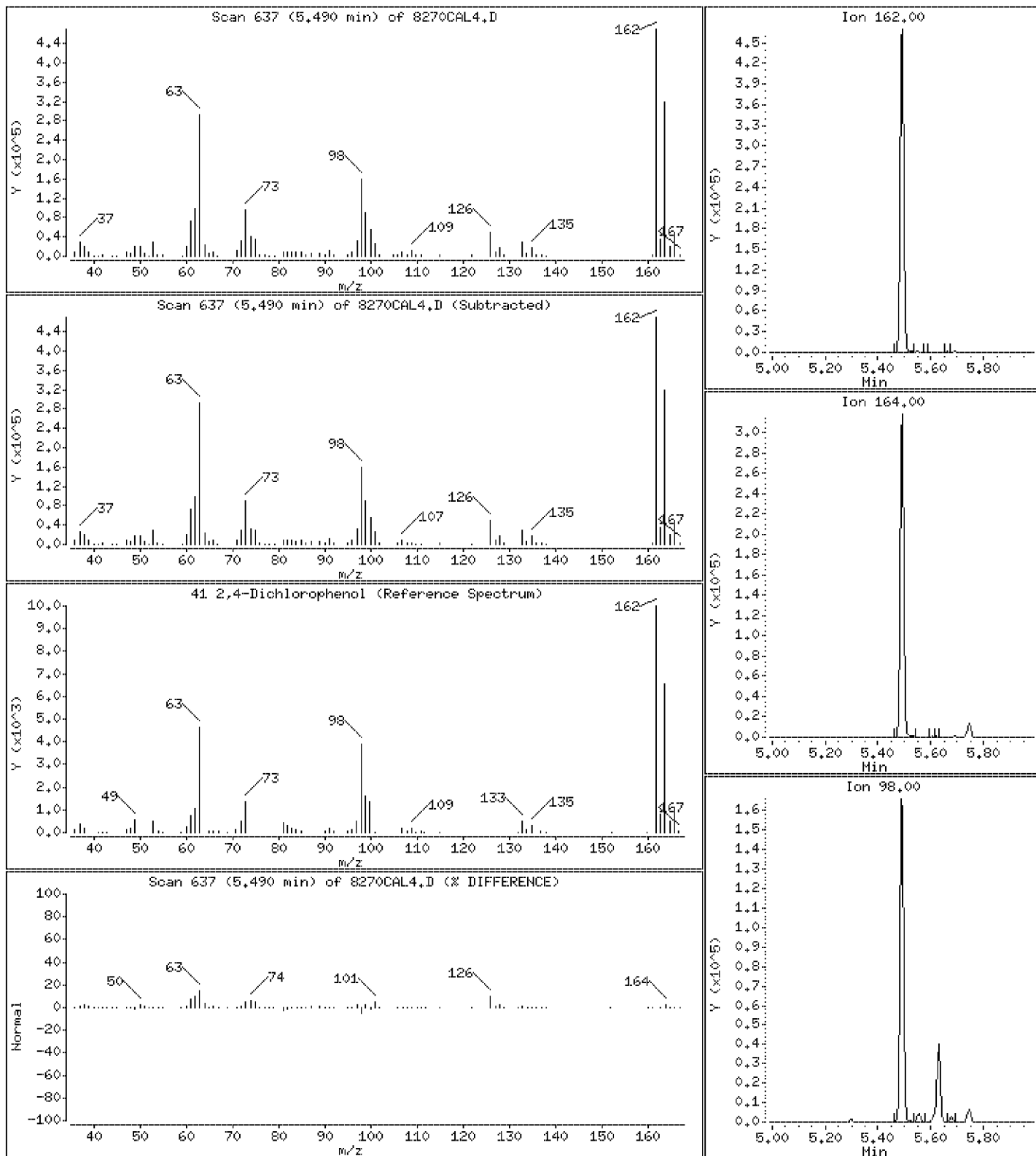
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

41 2,4-Dichlorophenol

Concentration: 45.8 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

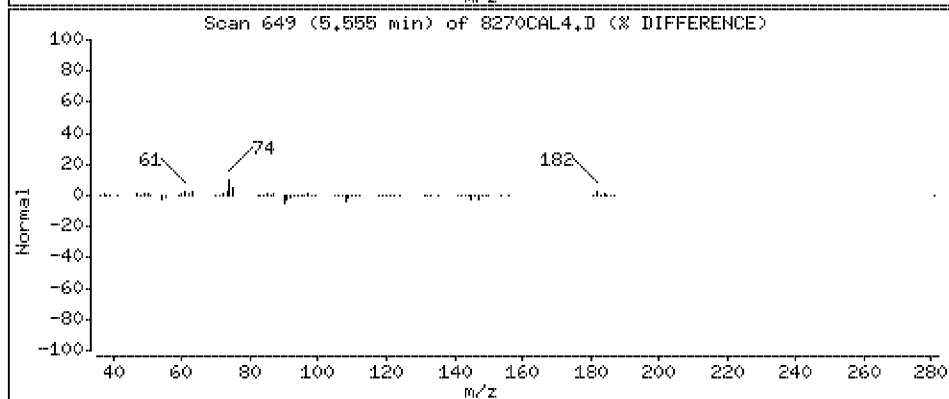
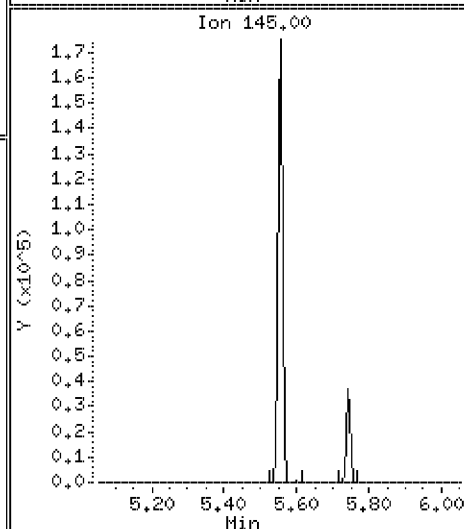
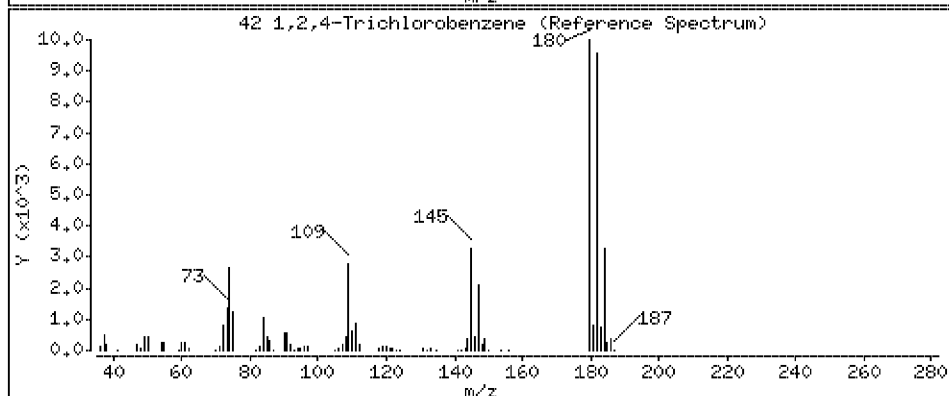
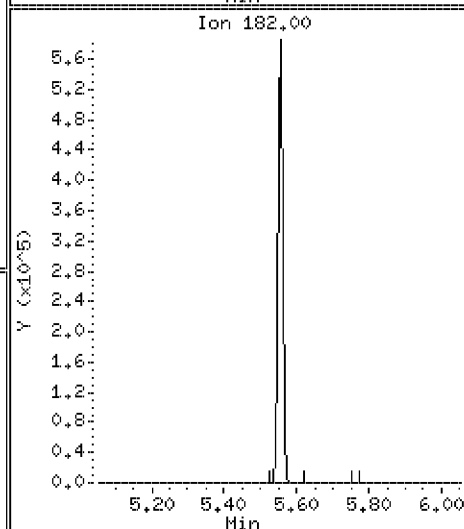
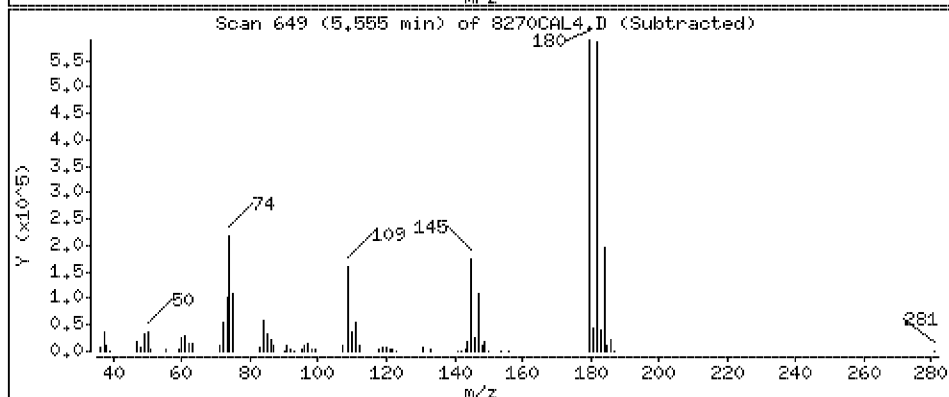
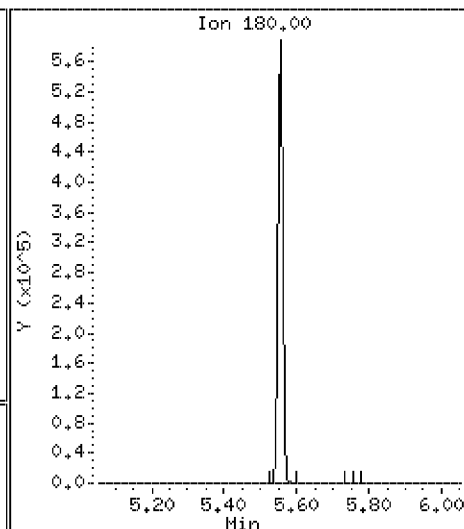
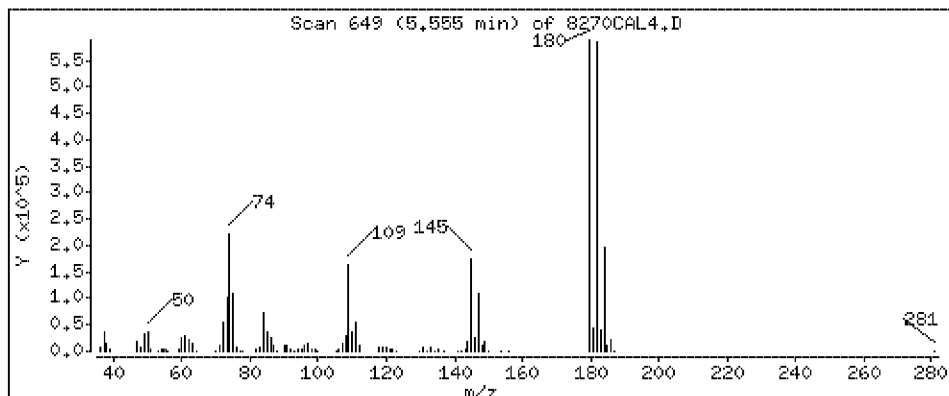
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

42 1,2,4-Trichlorobenzene

Concentration: 44.8 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

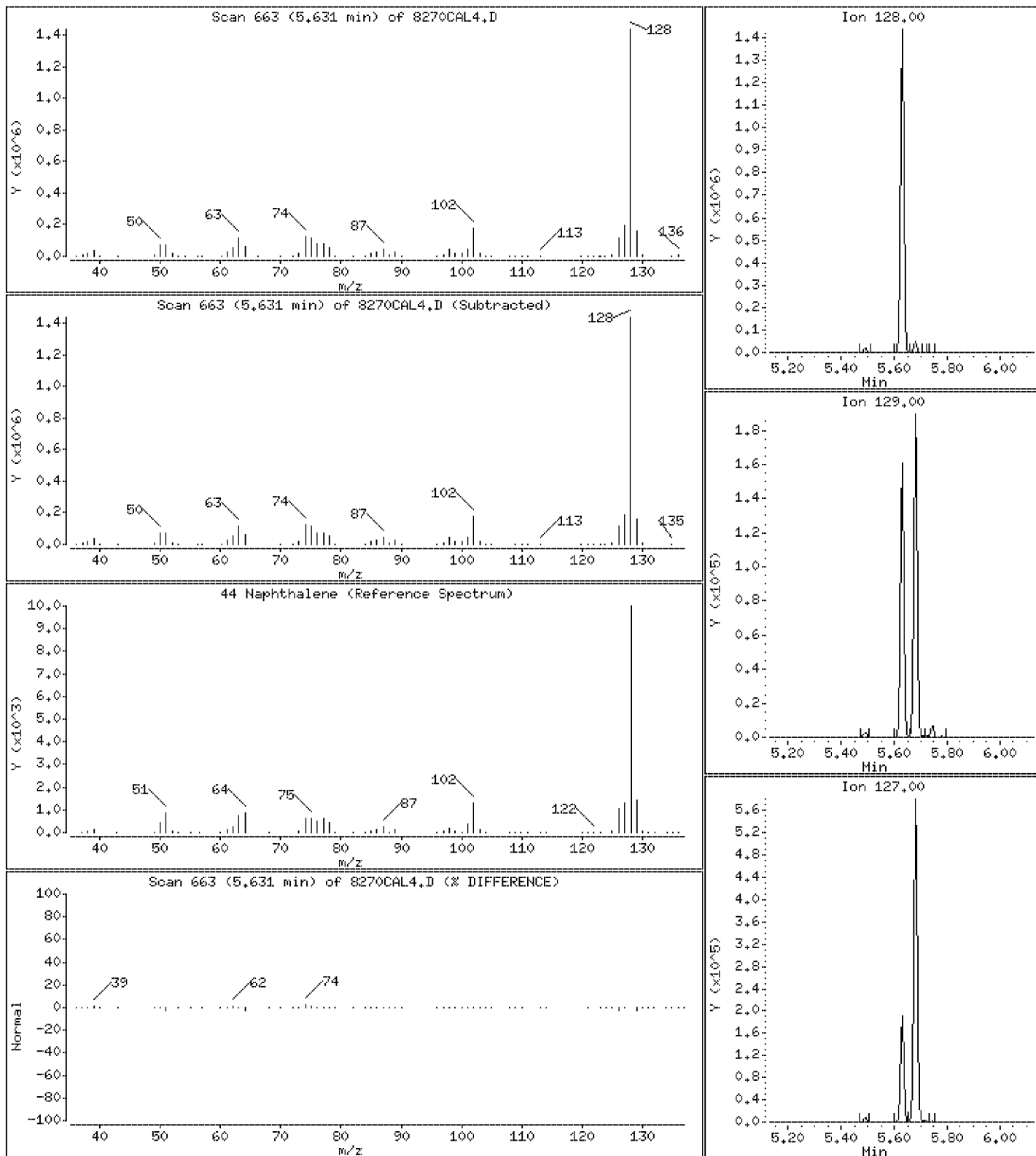
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

44 Naphthalene

Concentration: 45.9 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

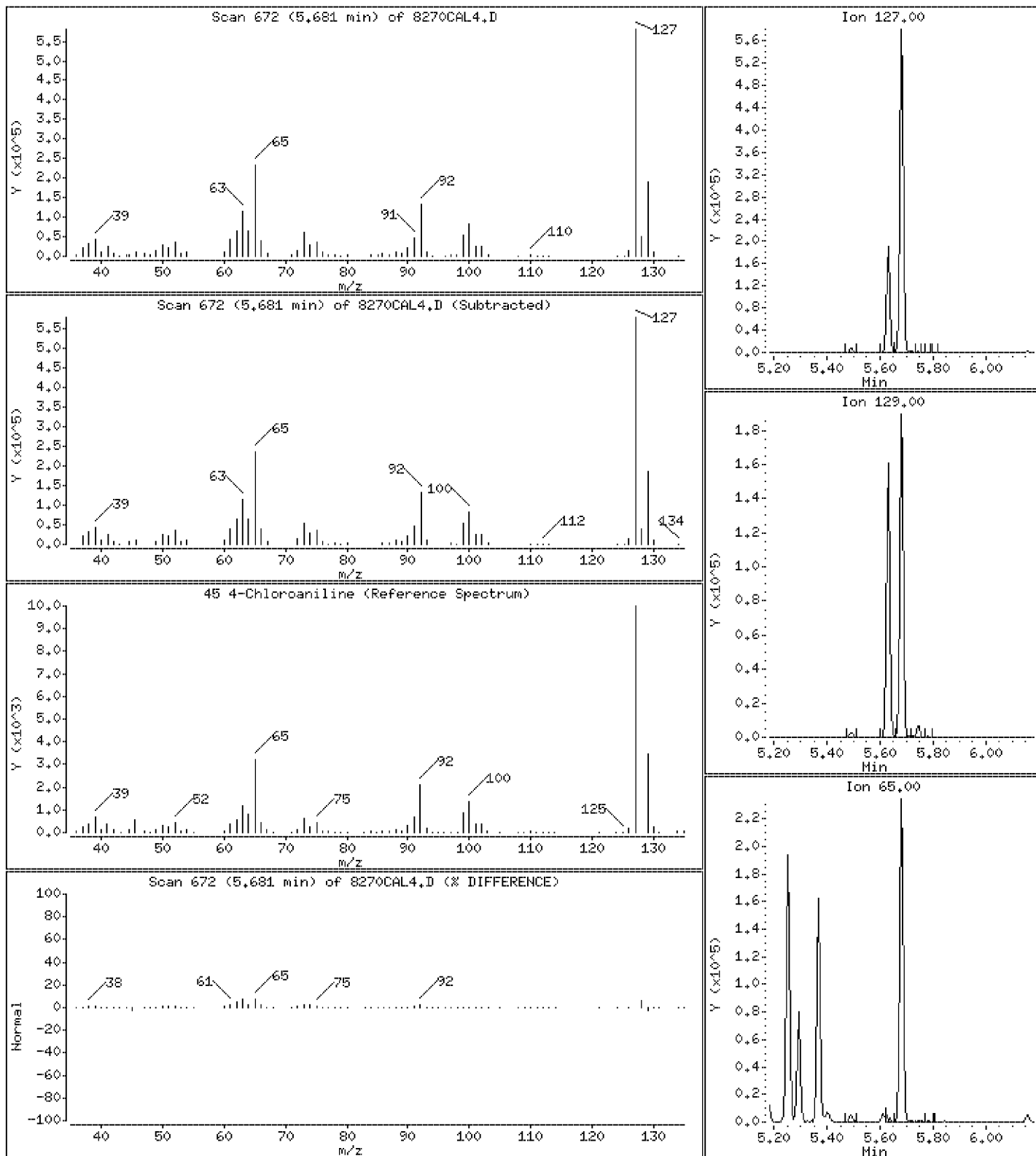
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

45 4-Chloroaniline

Concentration: 45.6 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

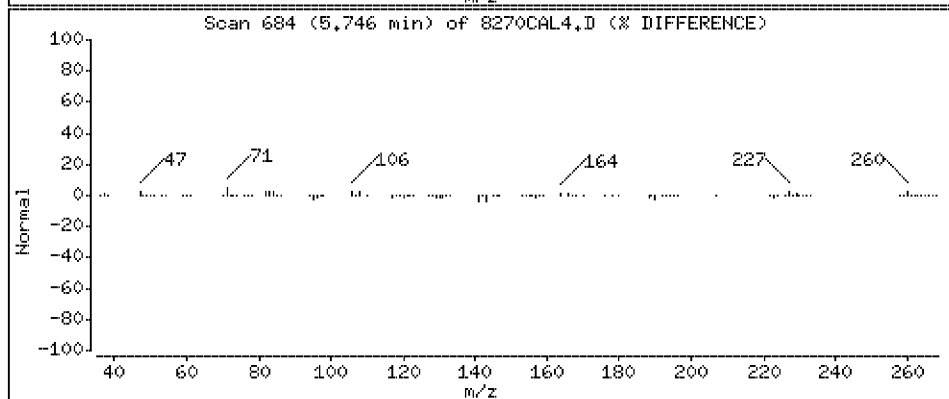
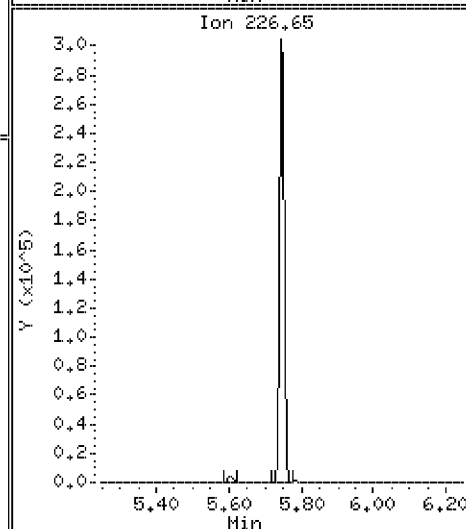
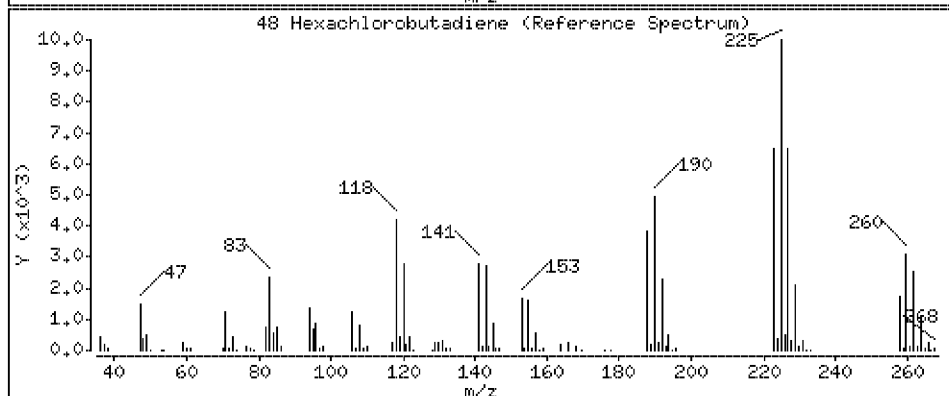
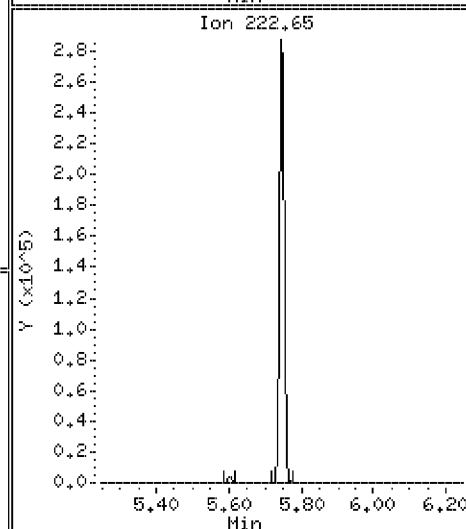
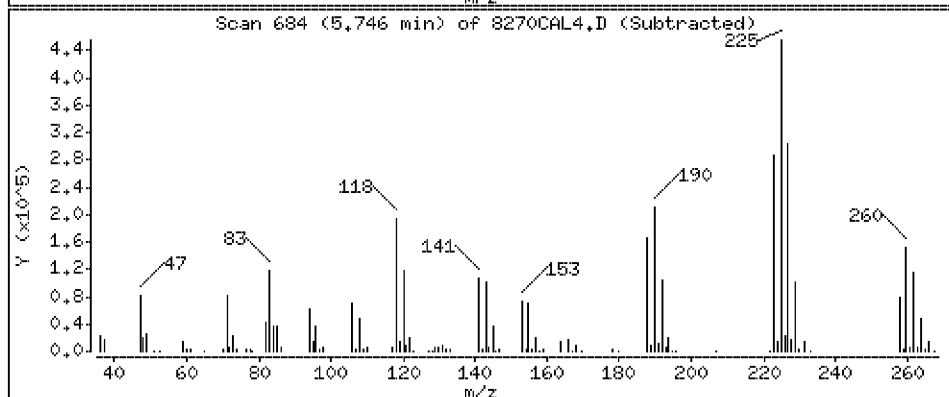
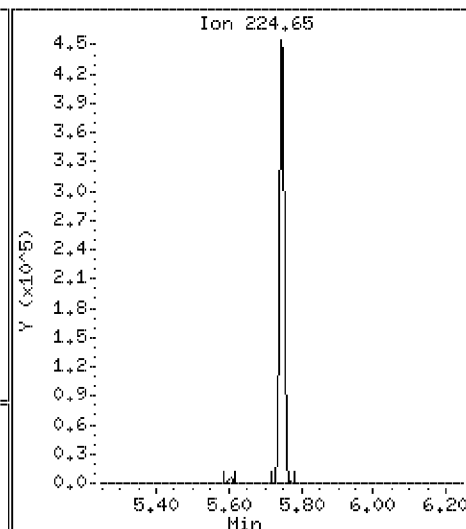
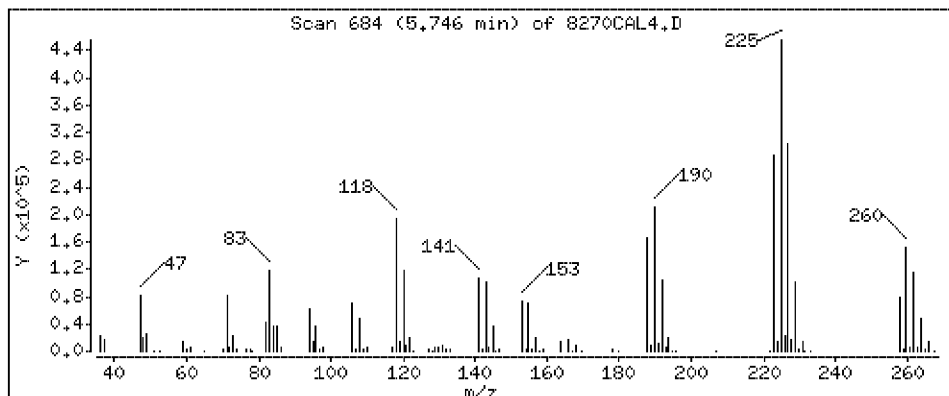
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

48 Hexachlorobutadiene

Concentration: 45.3 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

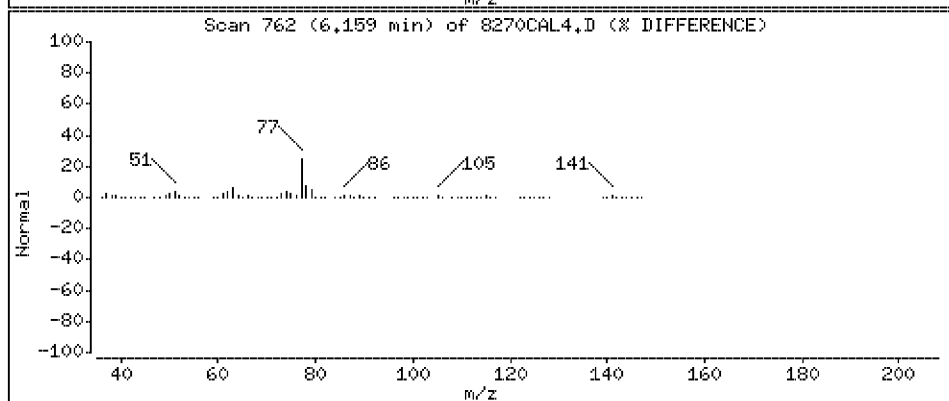
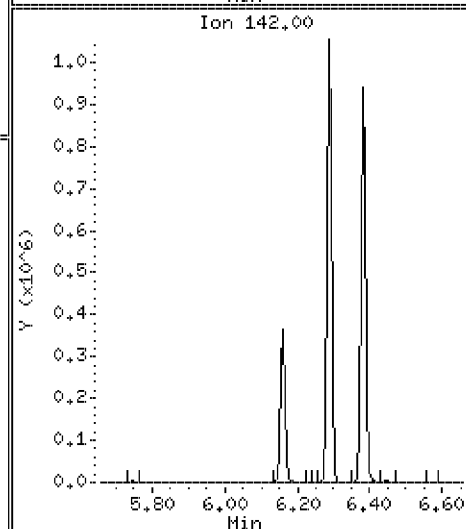
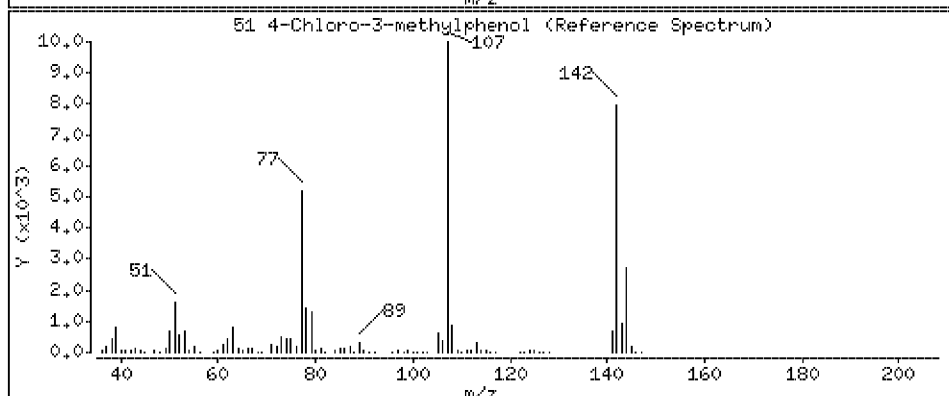
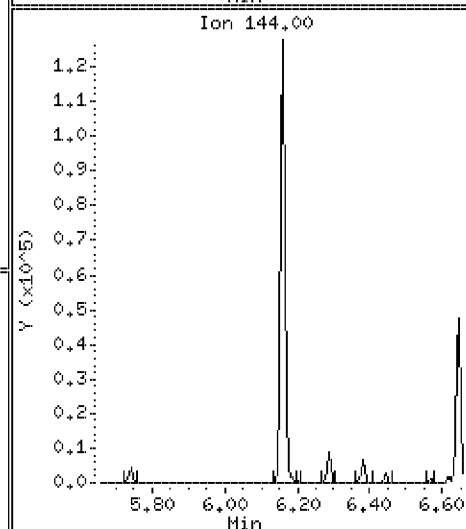
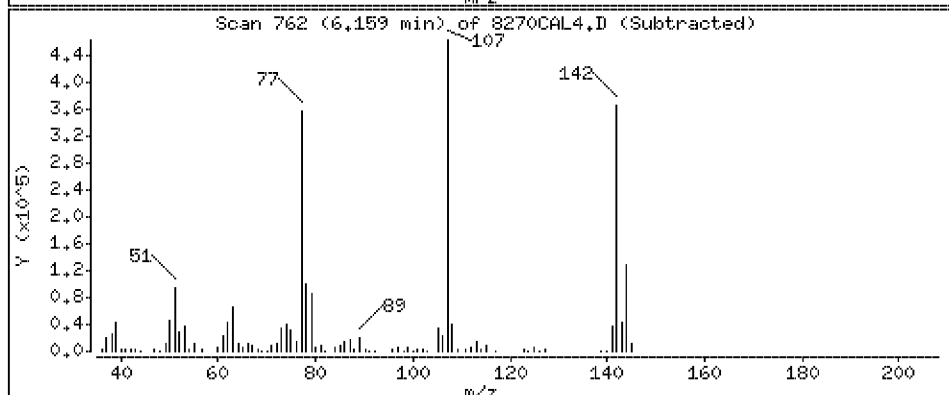
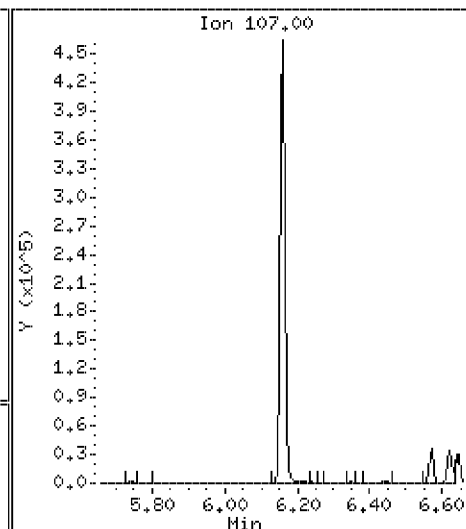
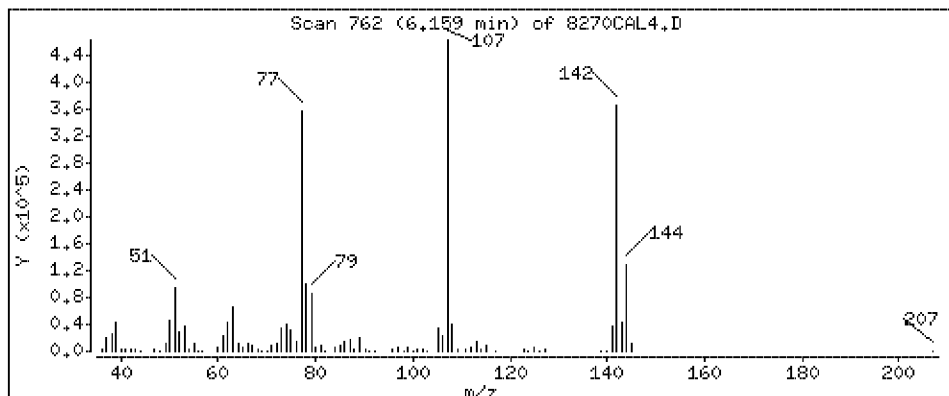
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

51 4-Chloro-3-methylphenol

Concentration: 46.3 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

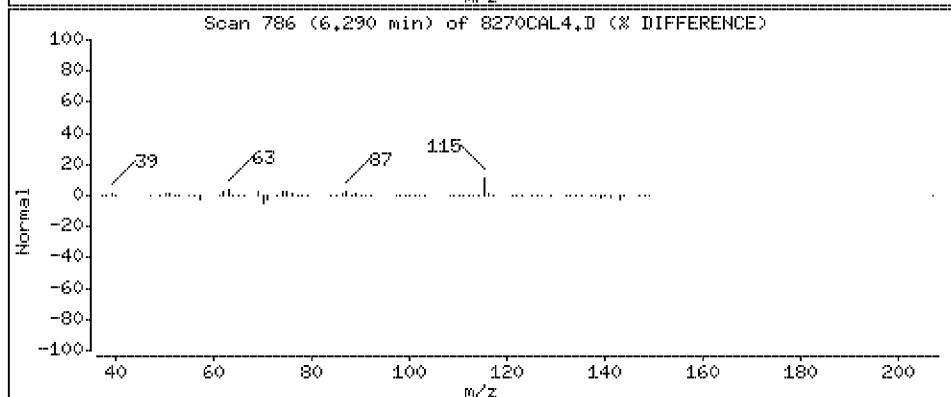
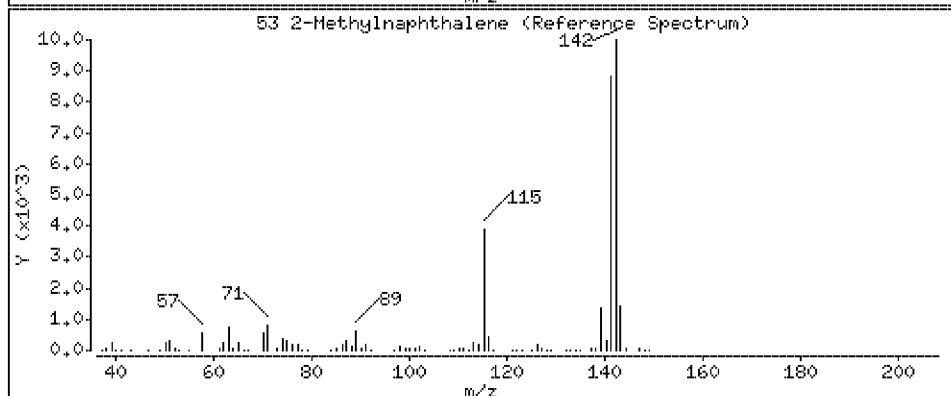
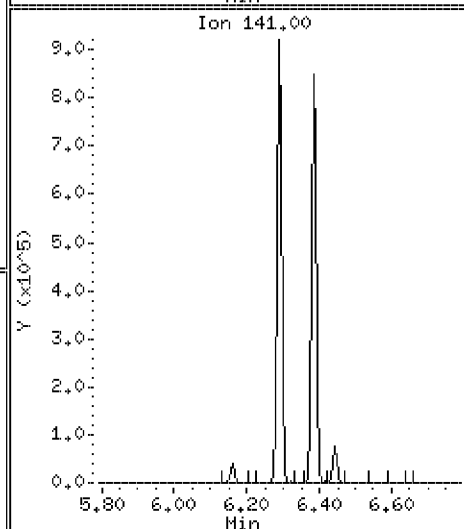
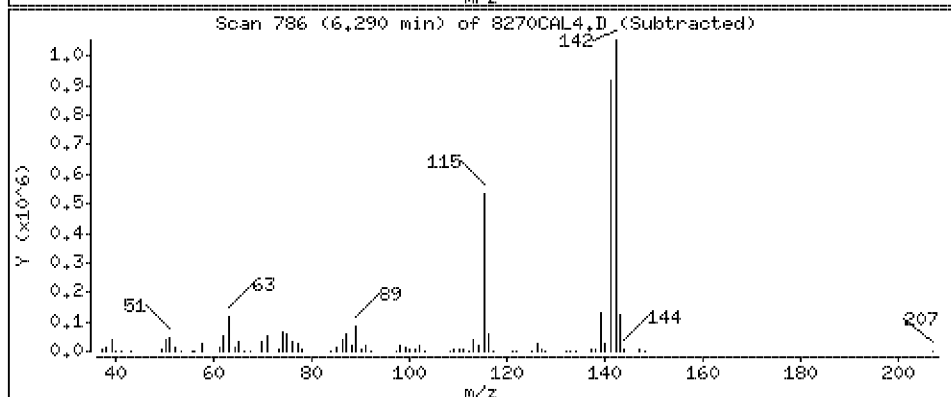
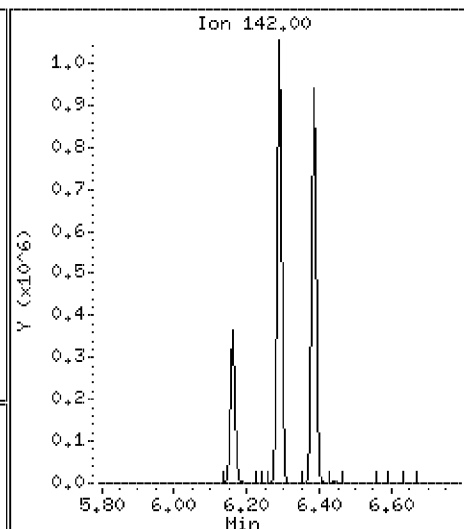
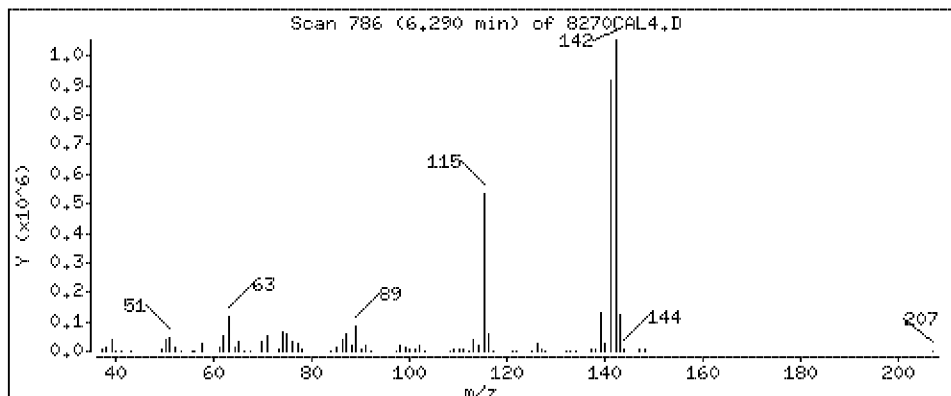
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

53 2-Methylnaphthalene

Concentration: 45.3 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

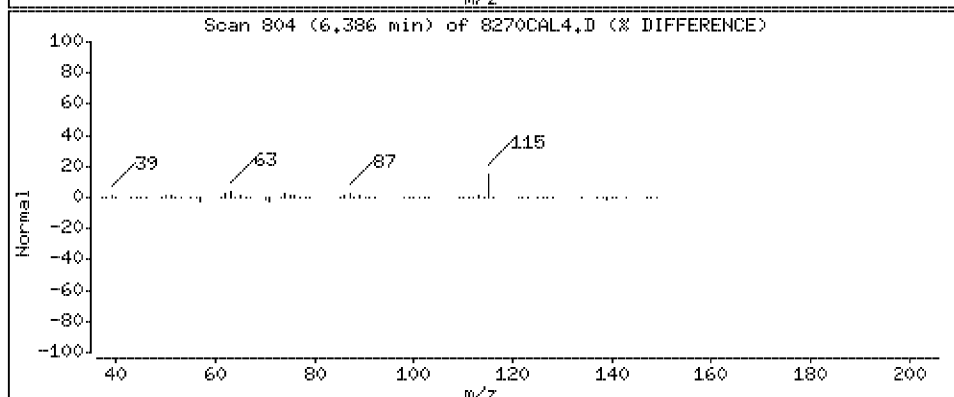
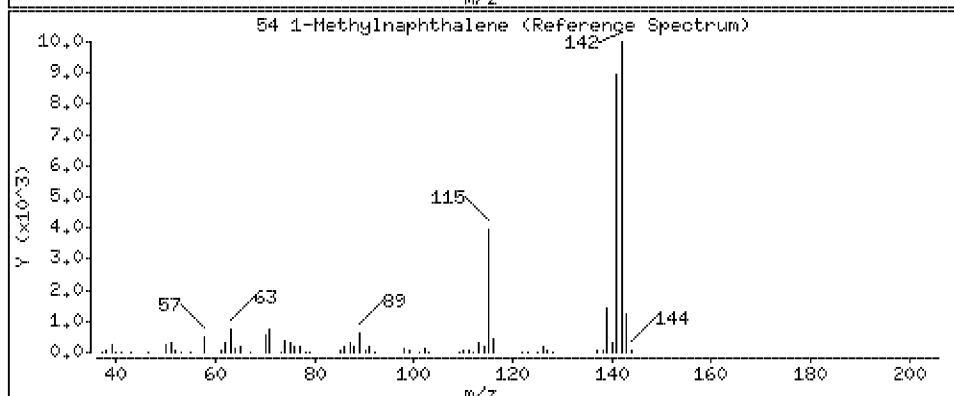
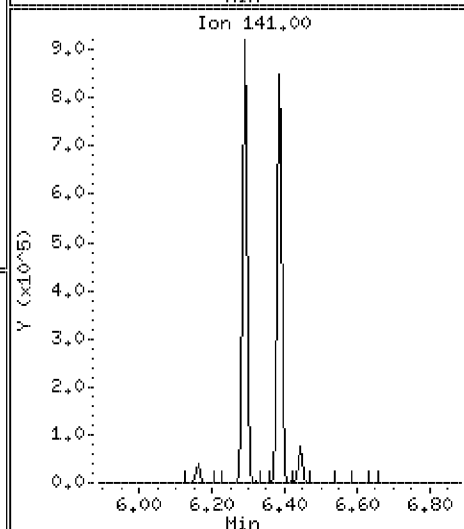
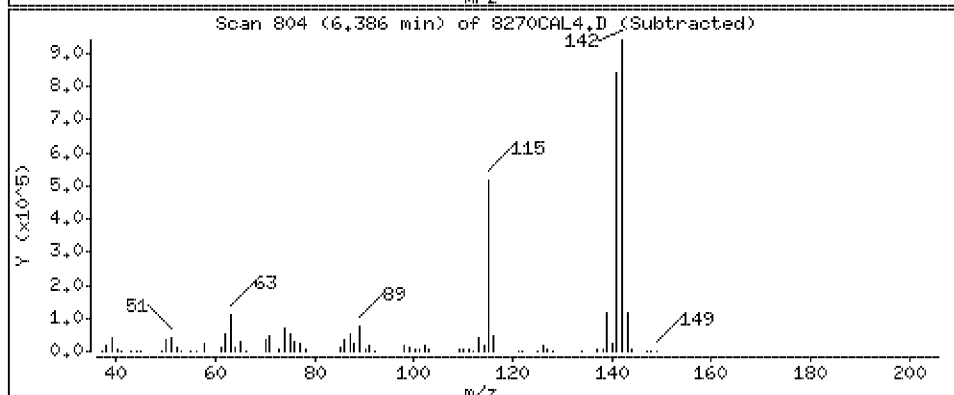
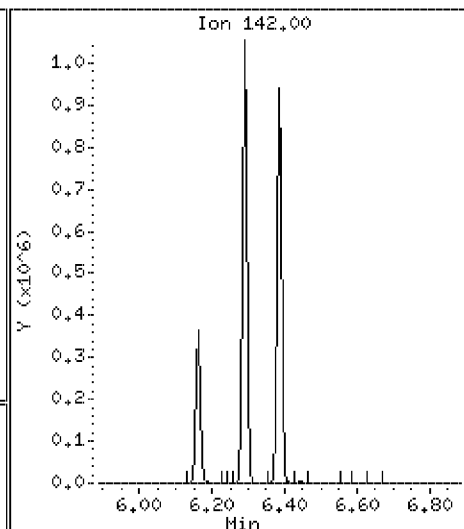
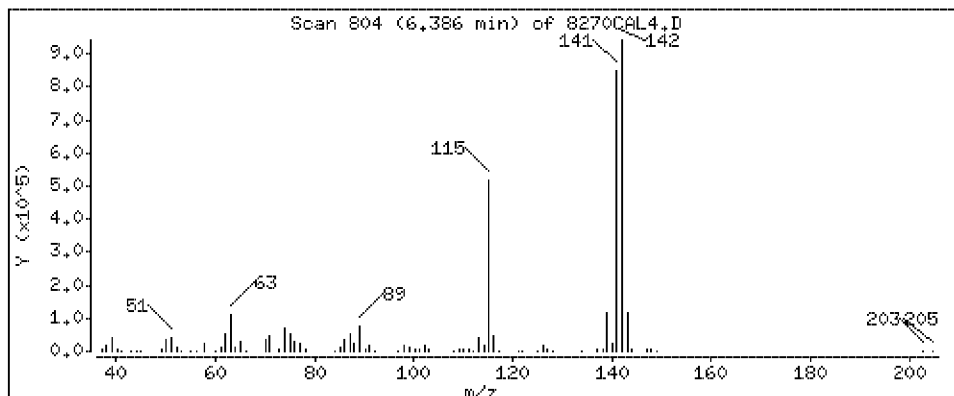
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

54 1-Methylnaphthalene

Concentration: 45.6 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

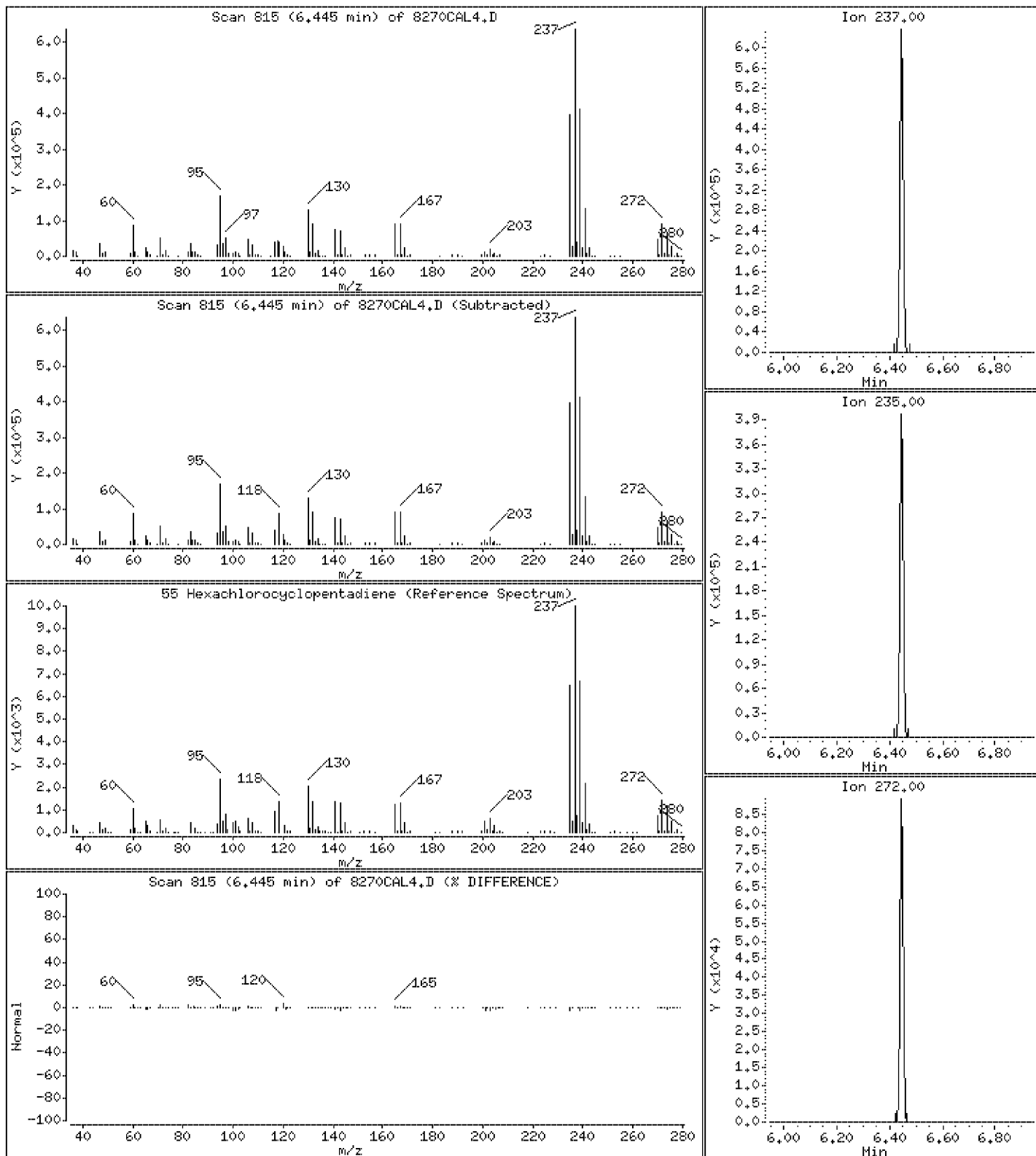
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

55 Hexachlorocyclopentadiene

Concentration: 46.3 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

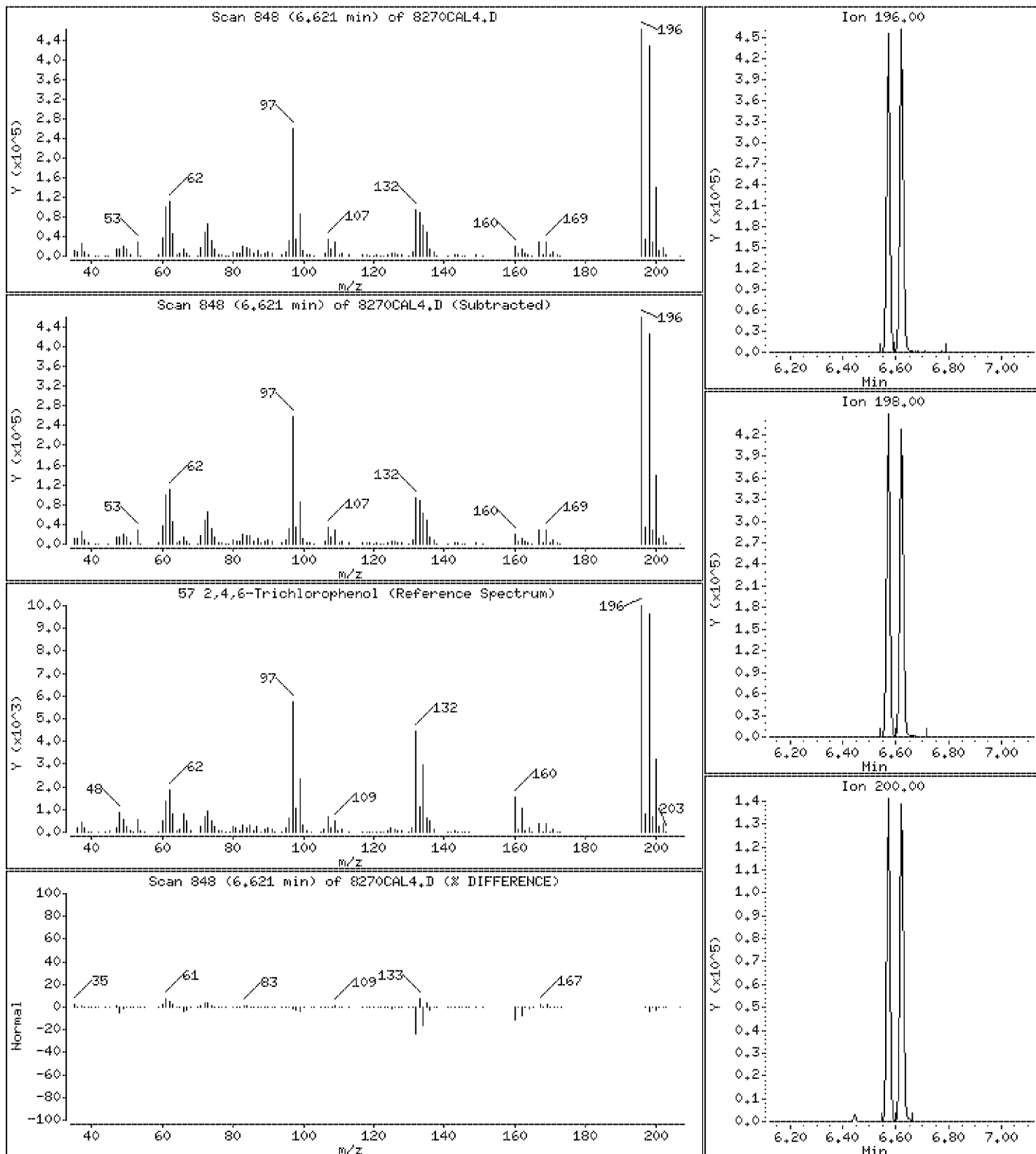
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

57 2,4,6-Trichlorophenol

Concentration: 46.7 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

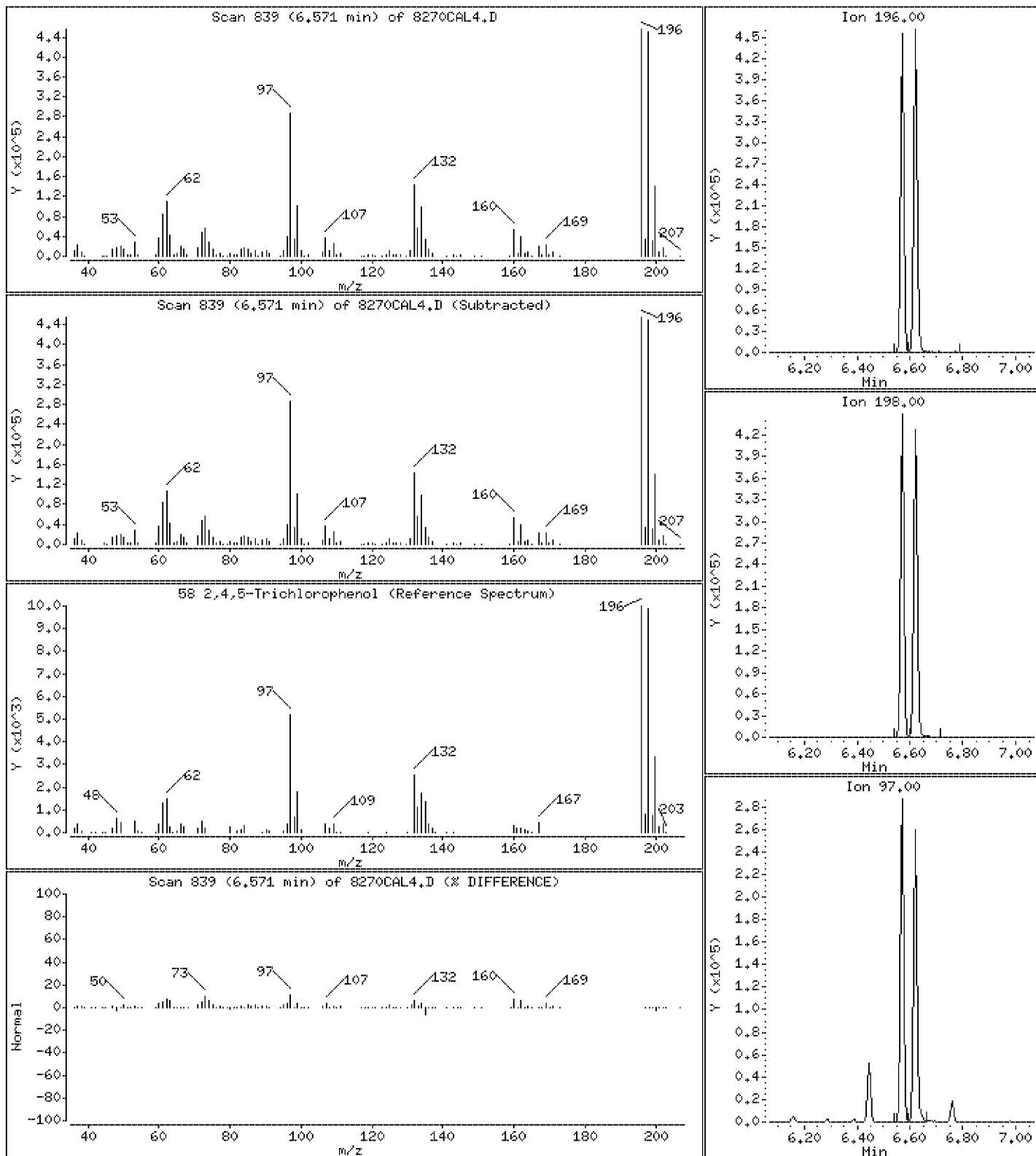
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

58 2,4,5-Trichlorophenol

Concentration: 45.8 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

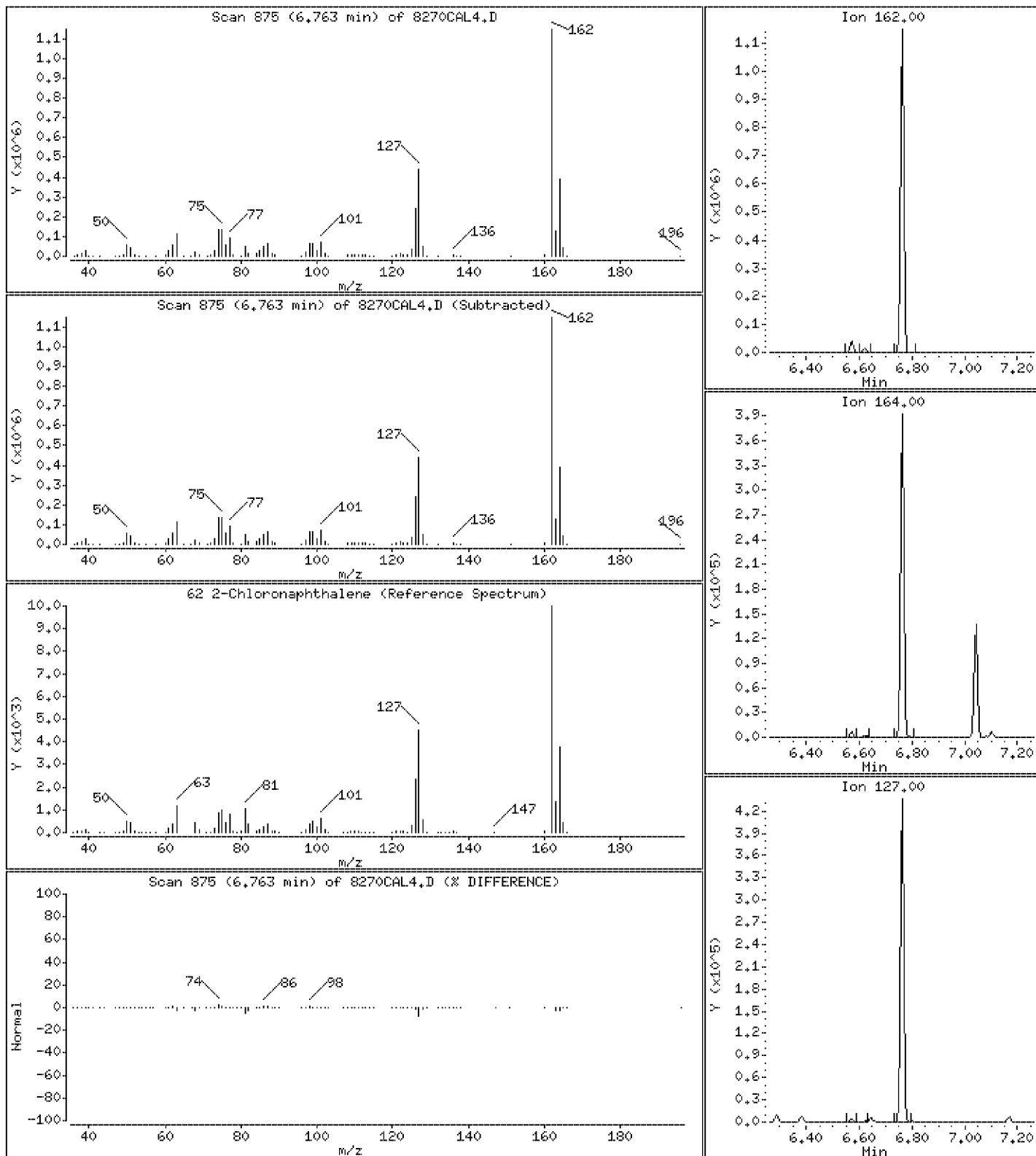
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

62 2-Chloronaphthalene

Concentration: 46.6 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

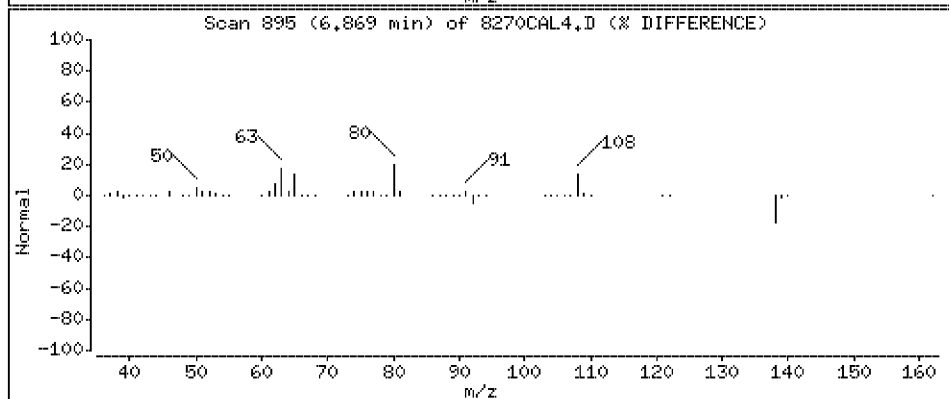
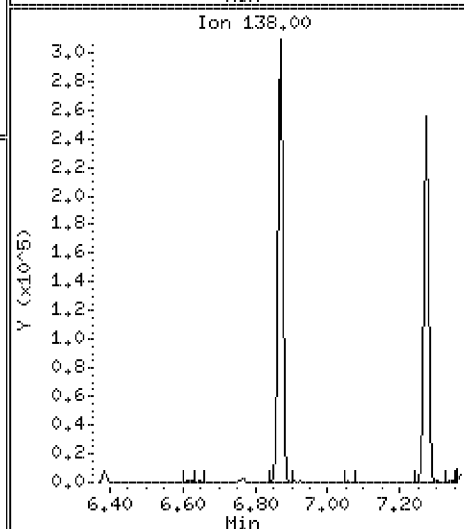
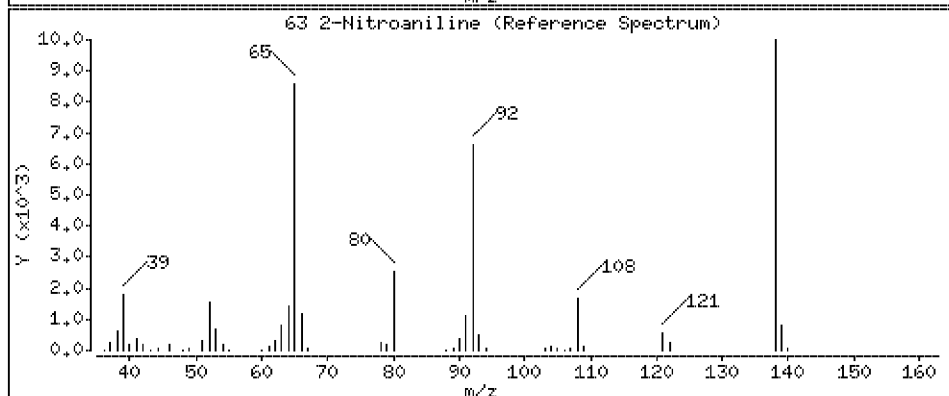
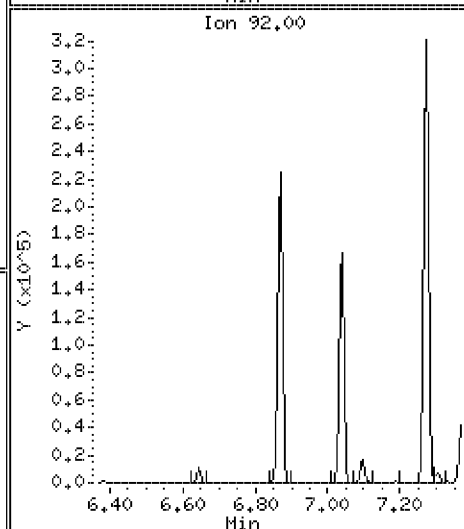
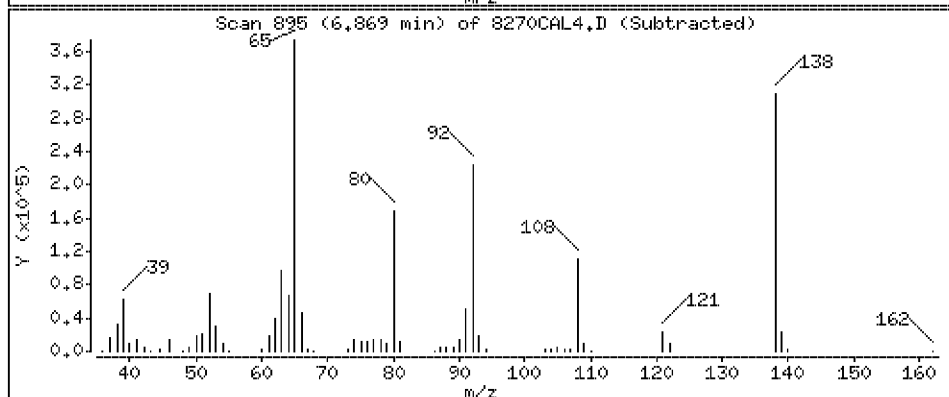
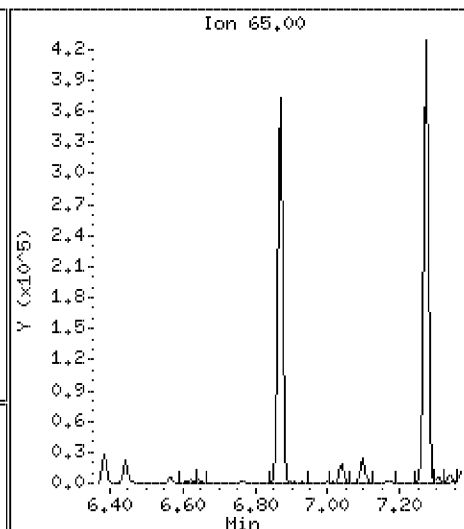
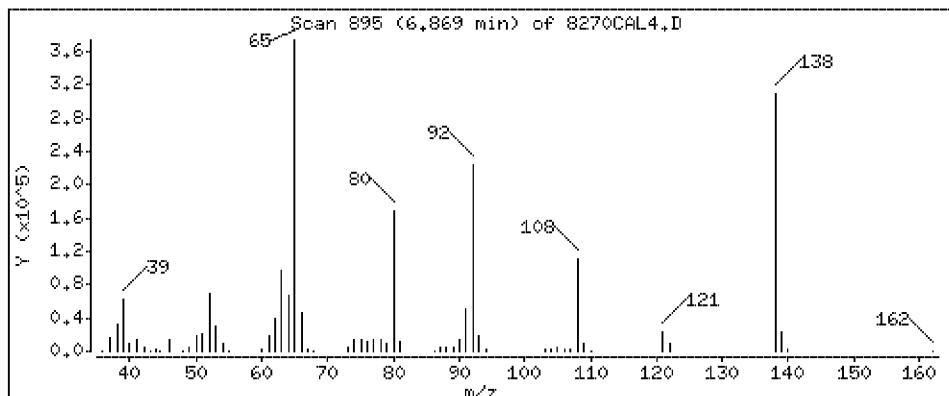
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

63 2-Nitroaniline

Concentration: 47.0 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

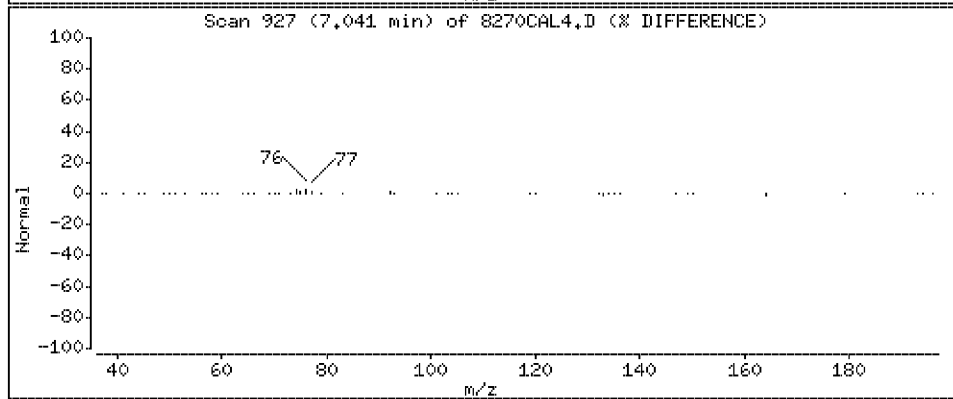
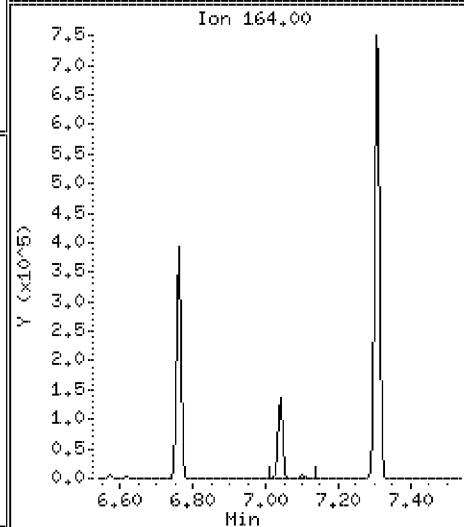
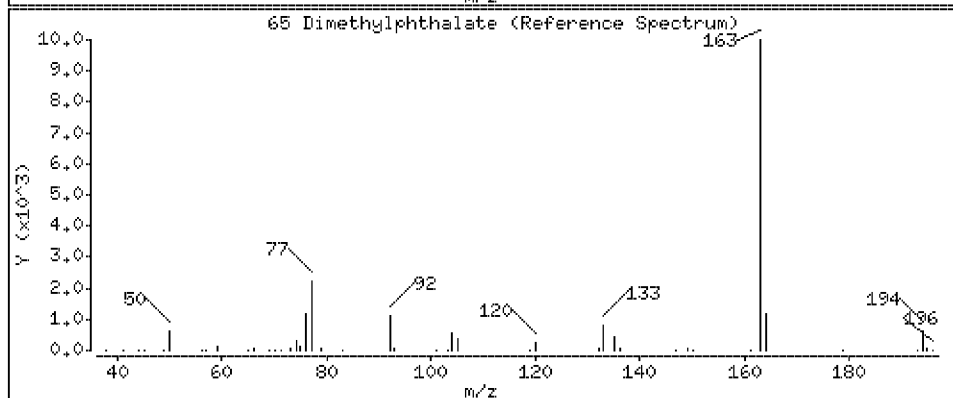
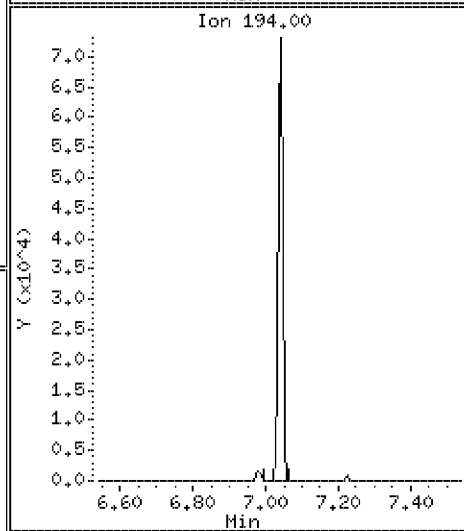
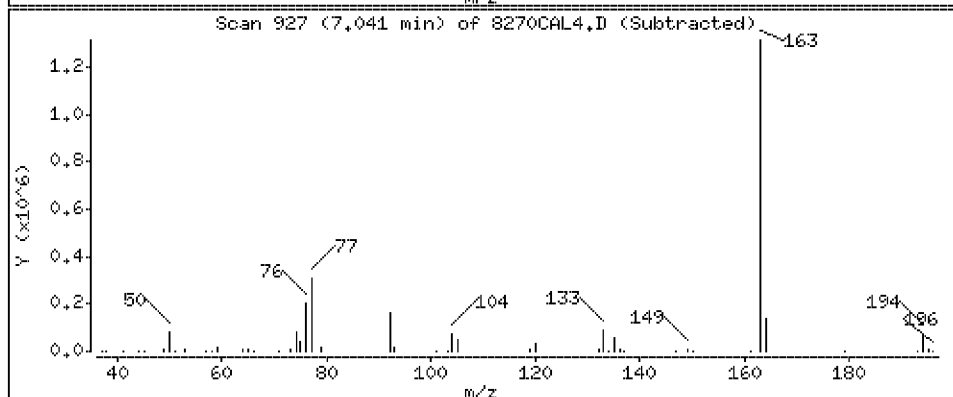
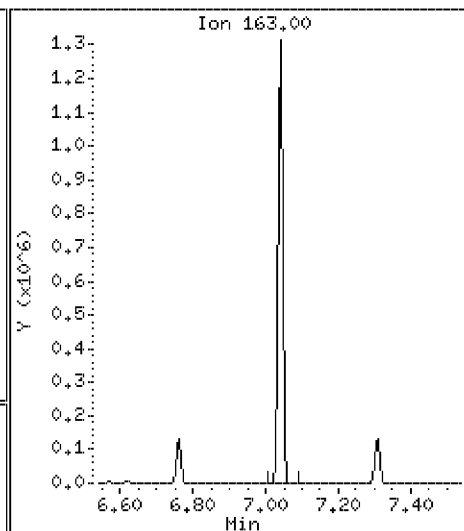
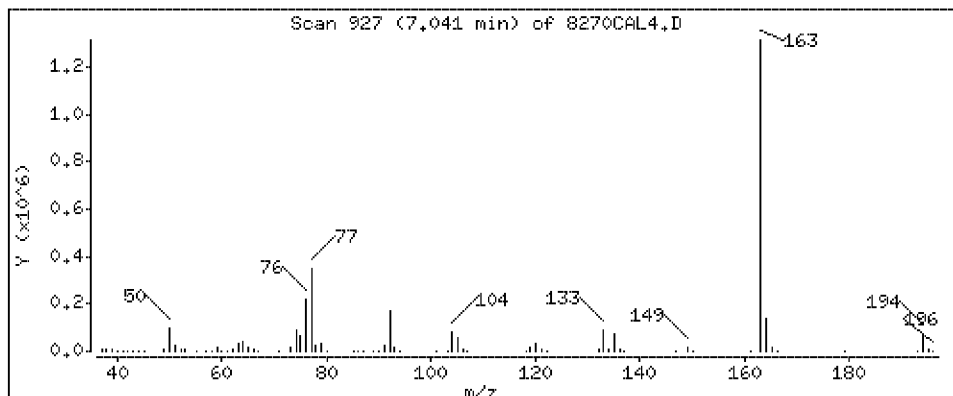
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

65 Dimethylphthalate

Concentration: 46.9 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

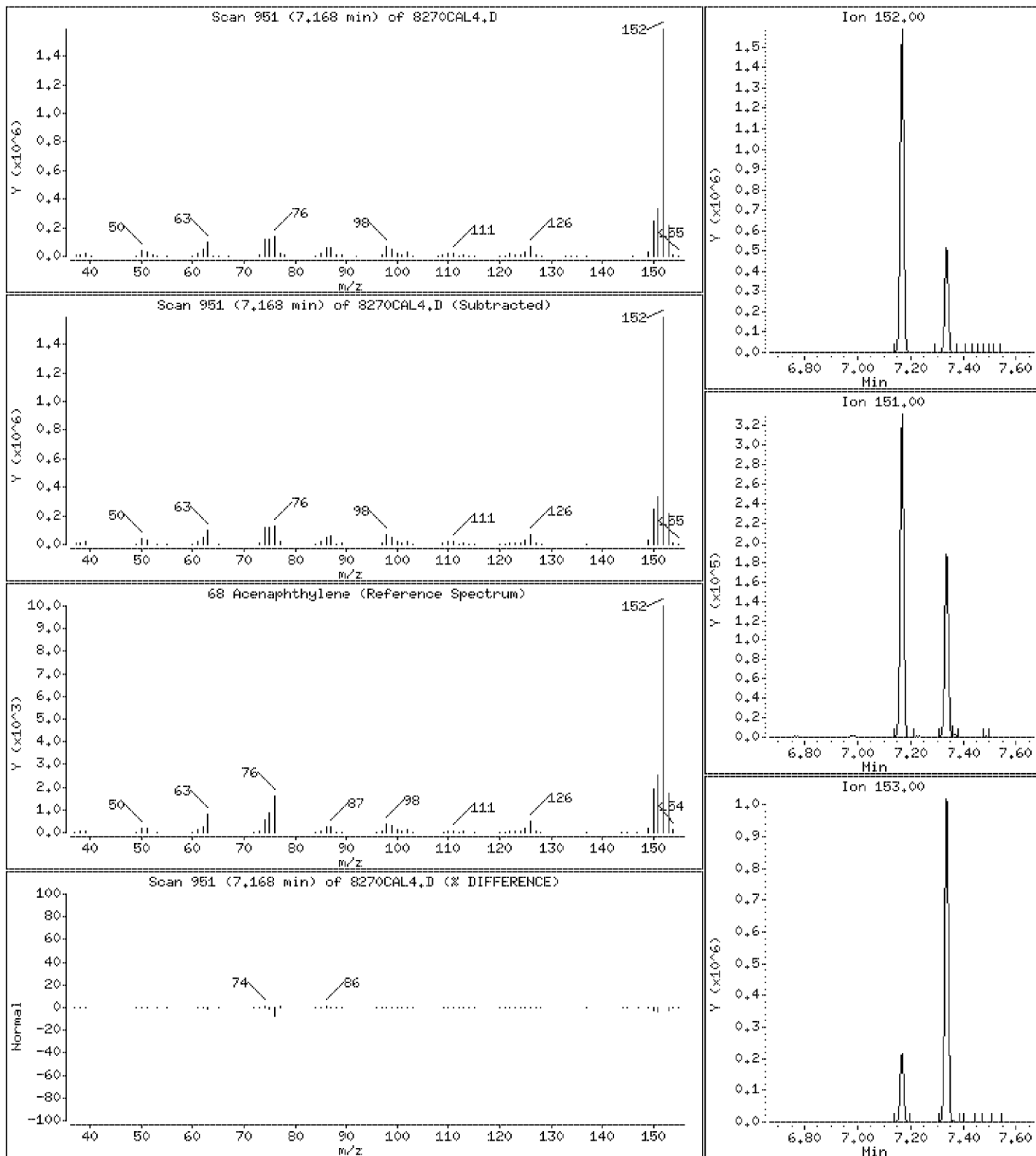
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

68 Acenaphthylene

Concentration: 46.8 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

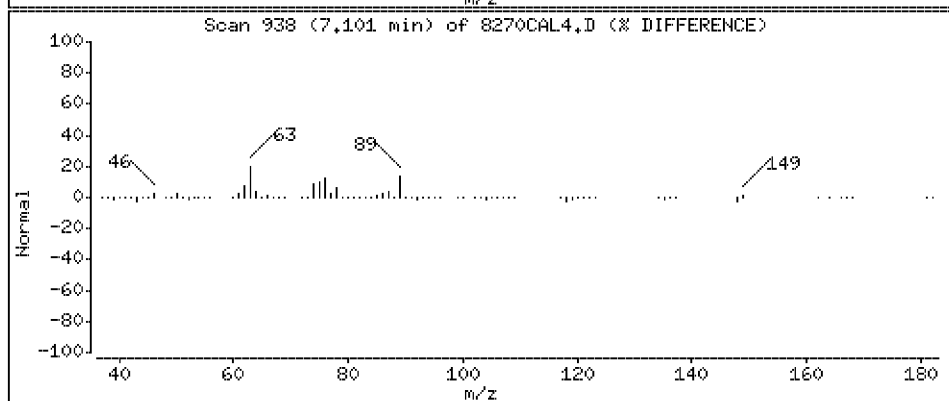
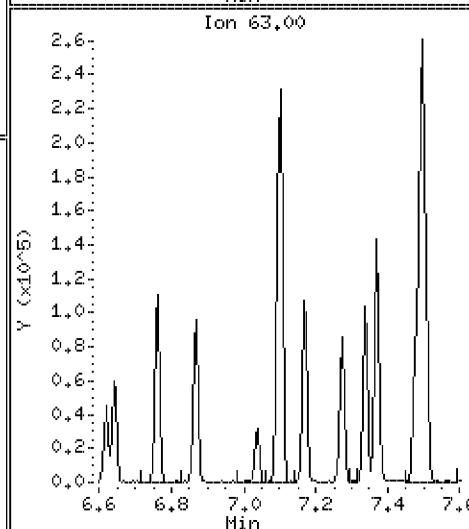
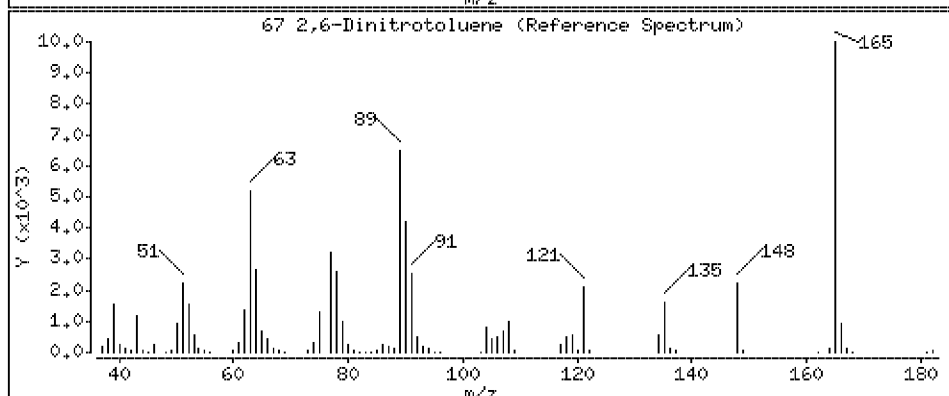
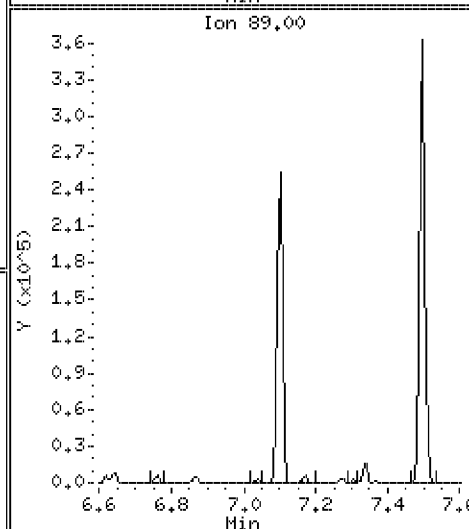
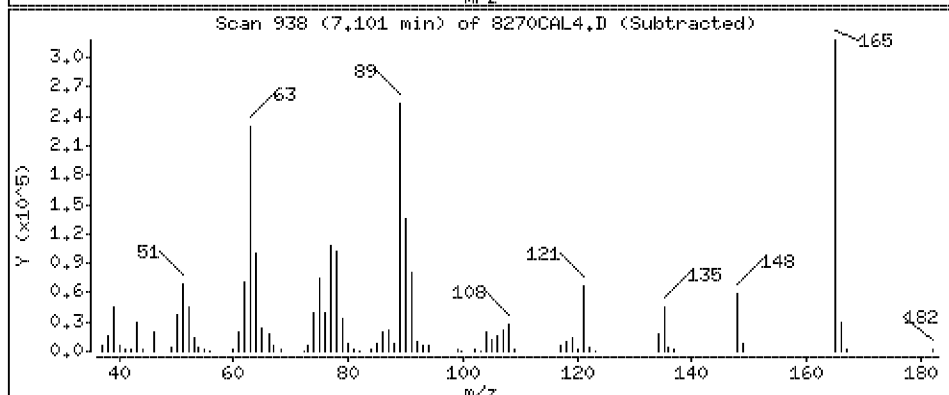
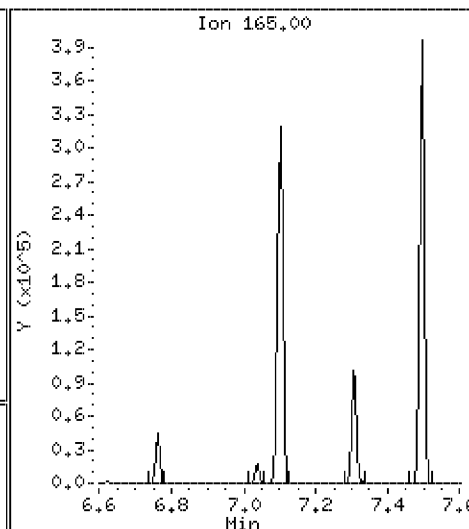
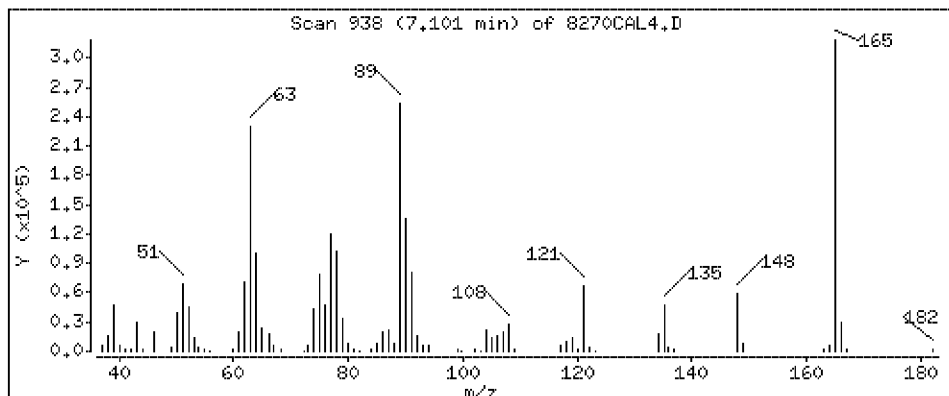
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

67 2,6-Dinitrotoluene

Concentration: 47.2 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

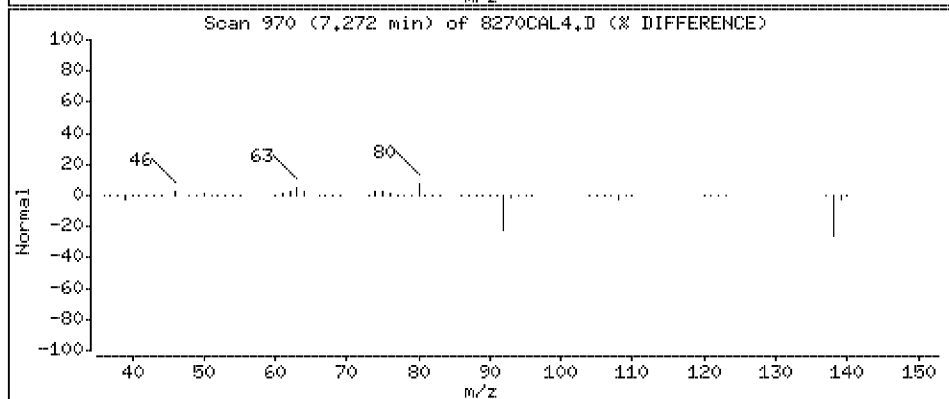
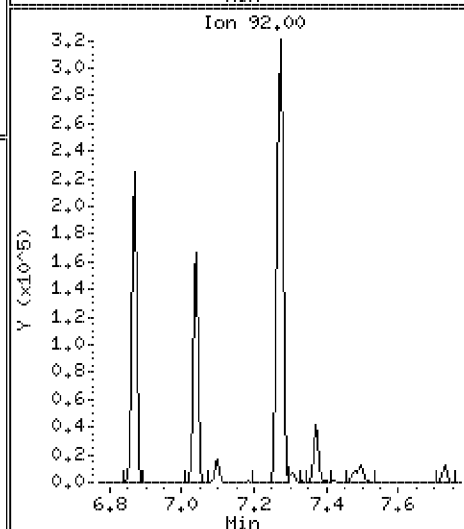
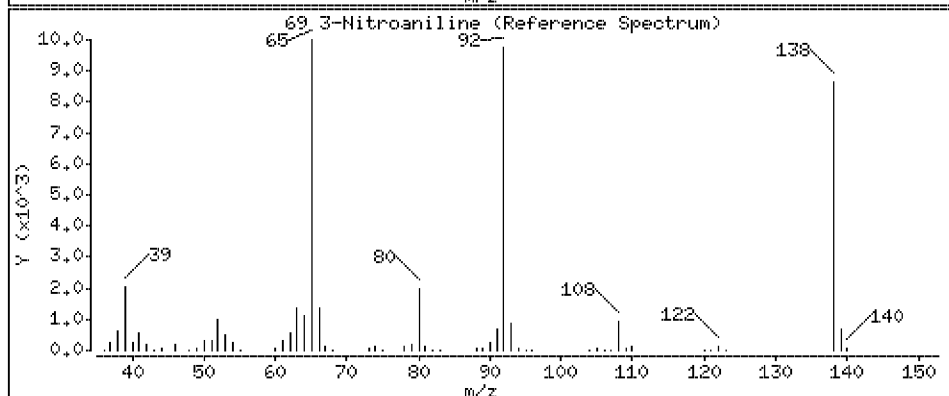
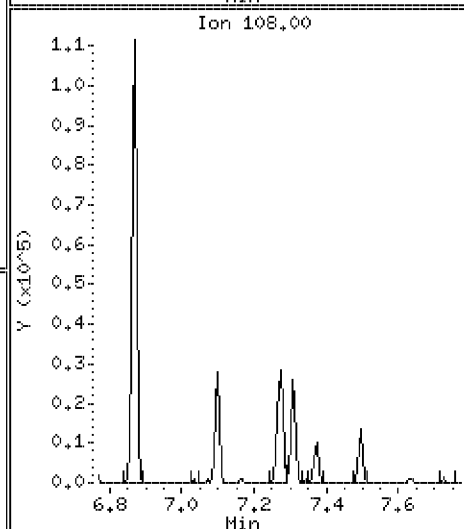
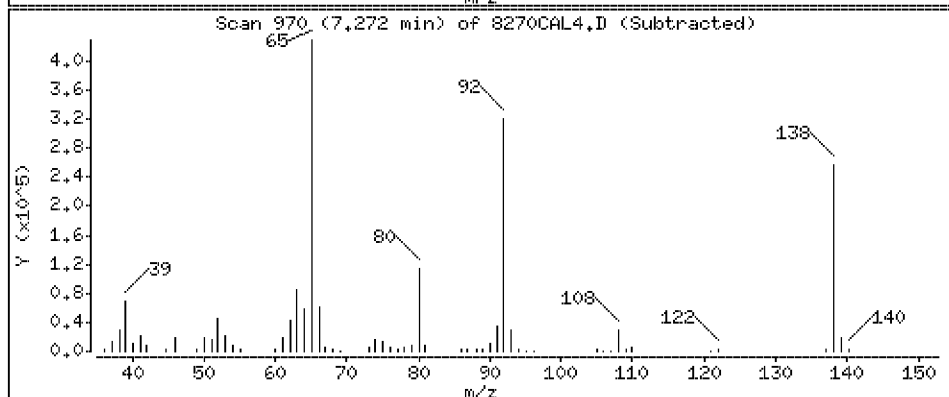
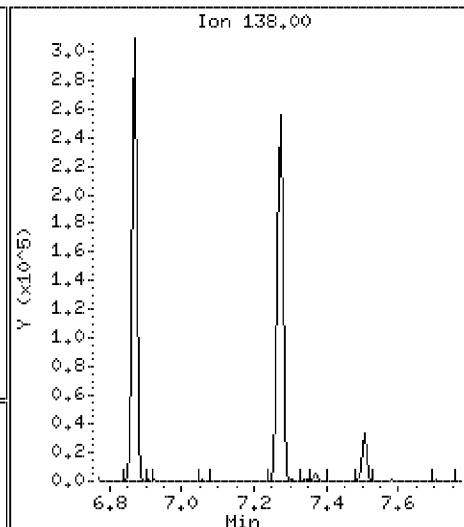
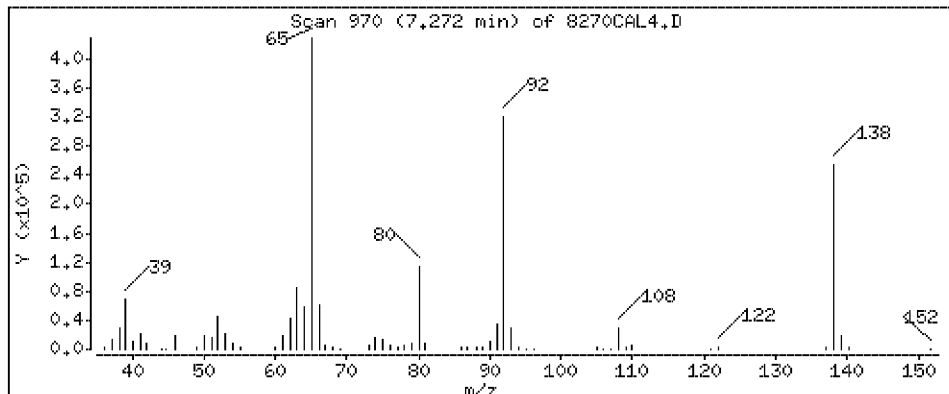
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

69 3-Nitroaniline

Concentration: 46.3 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

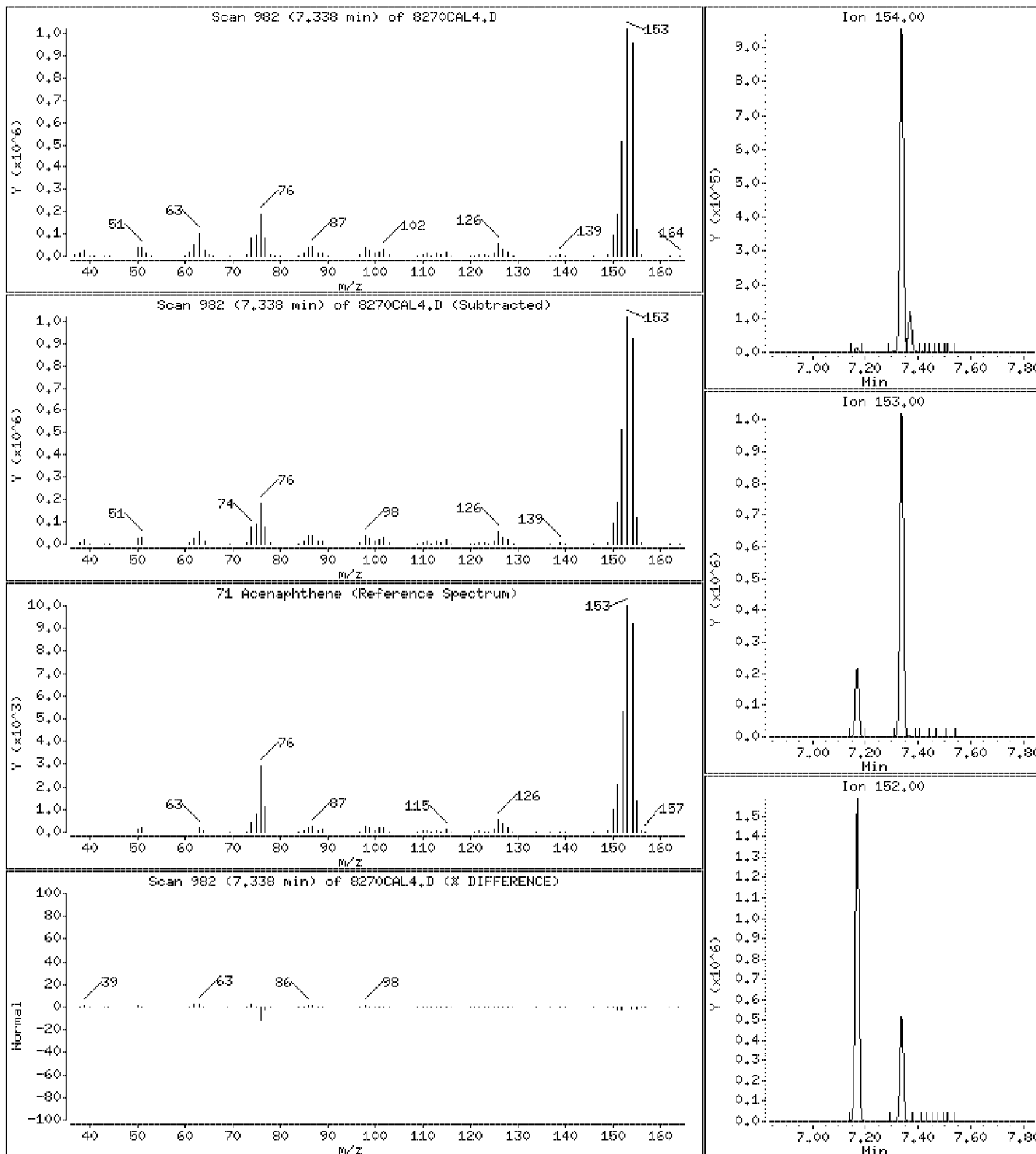
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

71 Acenaphthene

Concentration: 46.4 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

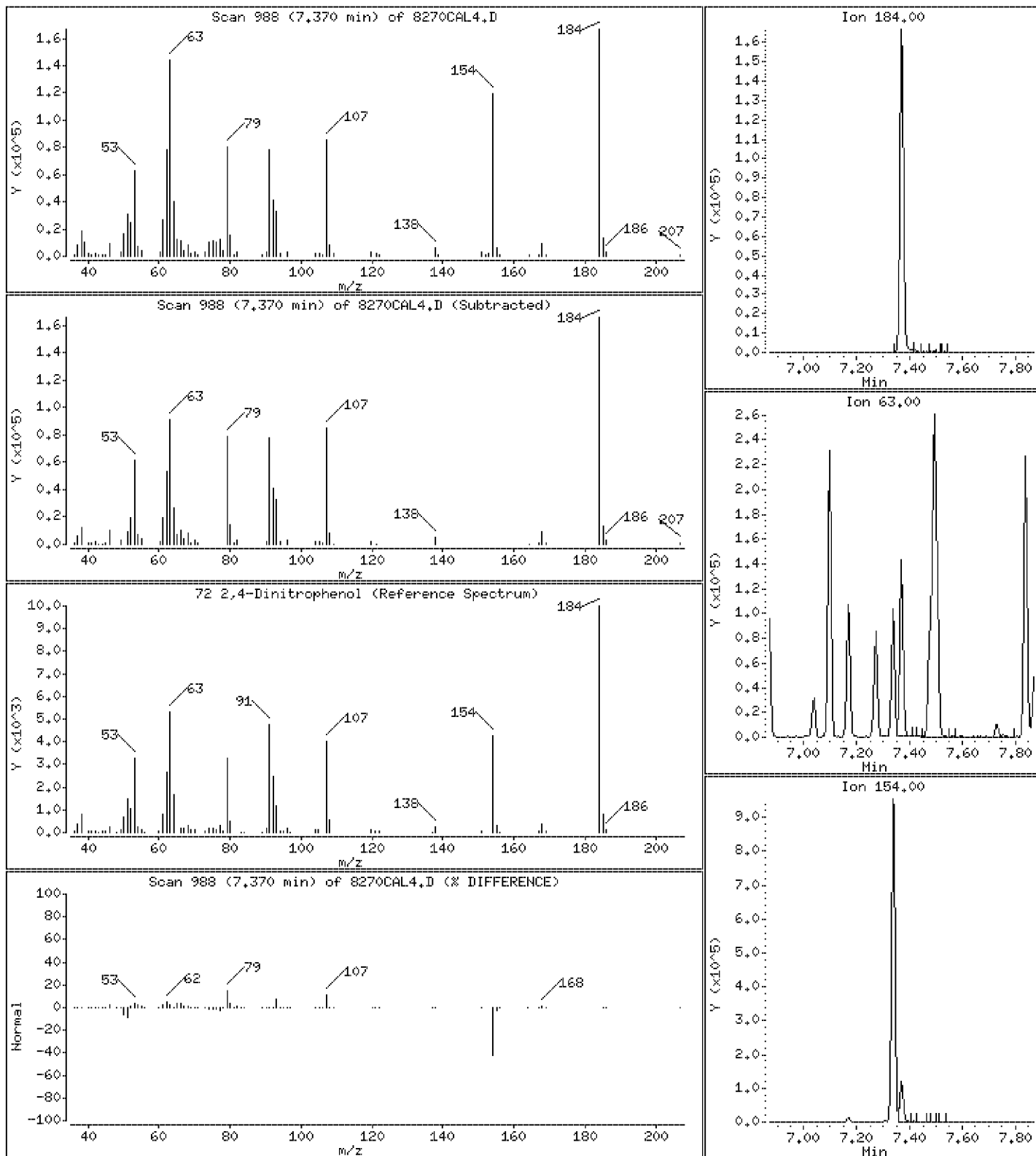
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

72 2,4-Dinitrophenol

Concentration: 44.2 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

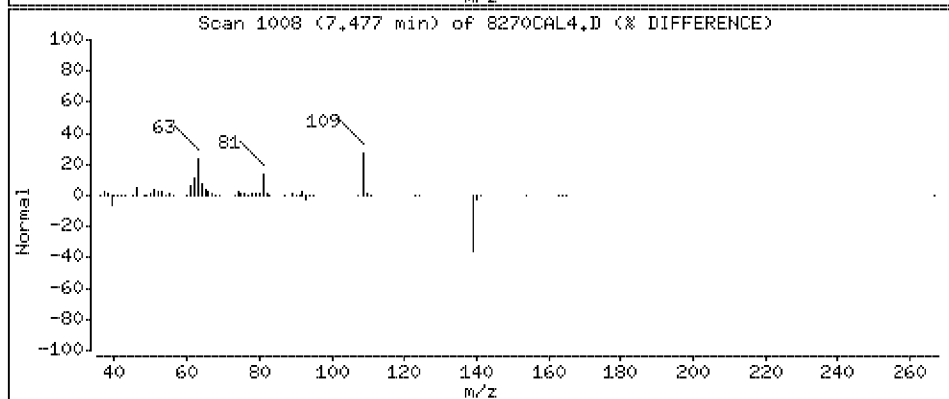
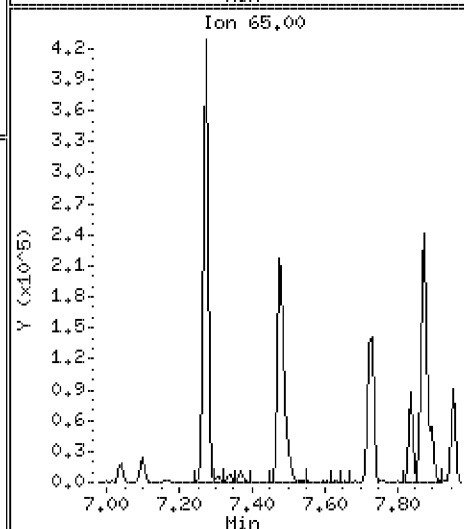
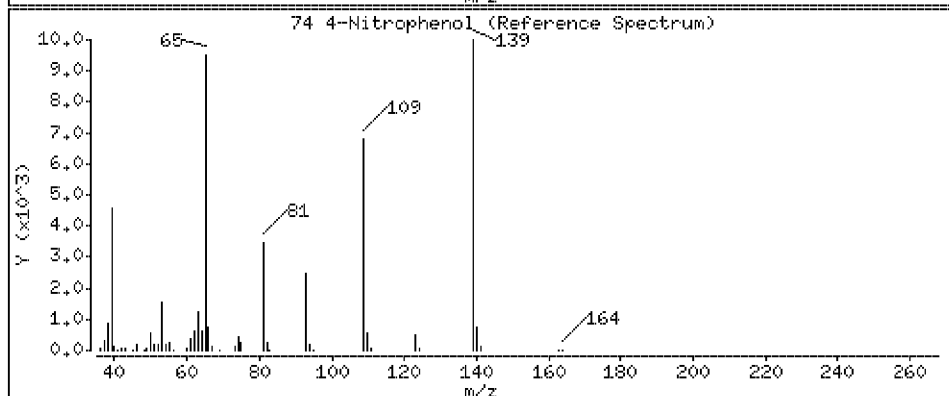
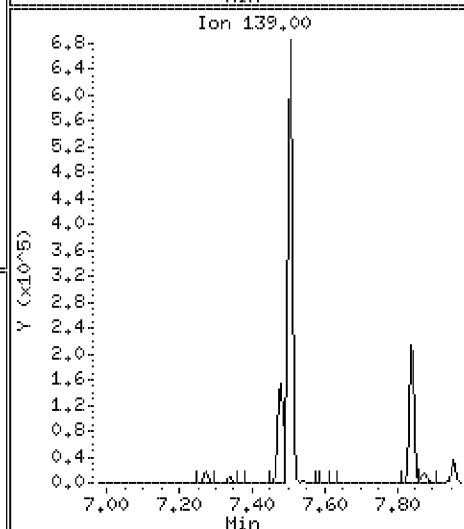
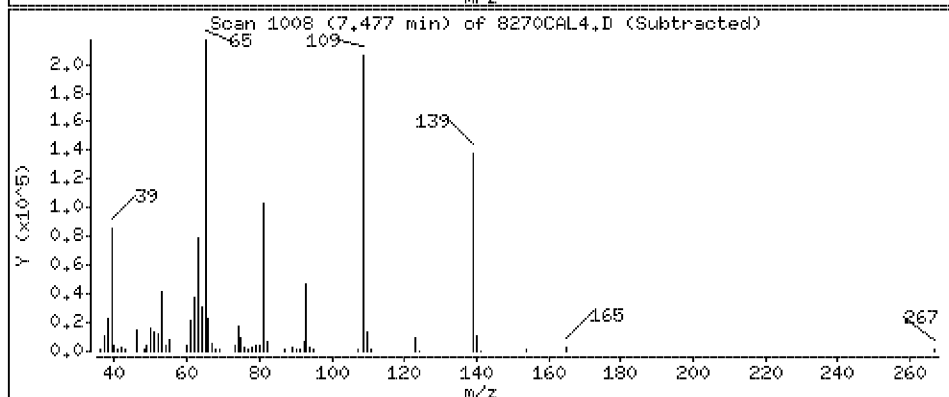
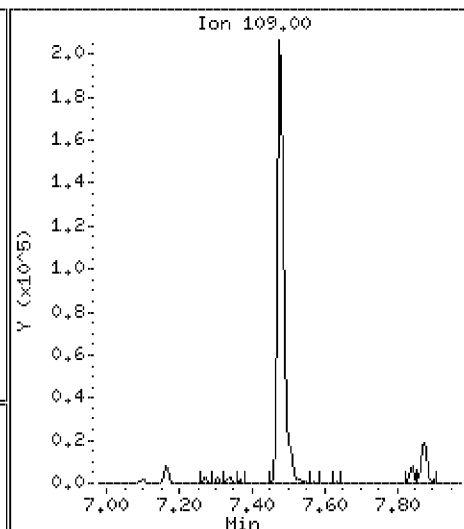
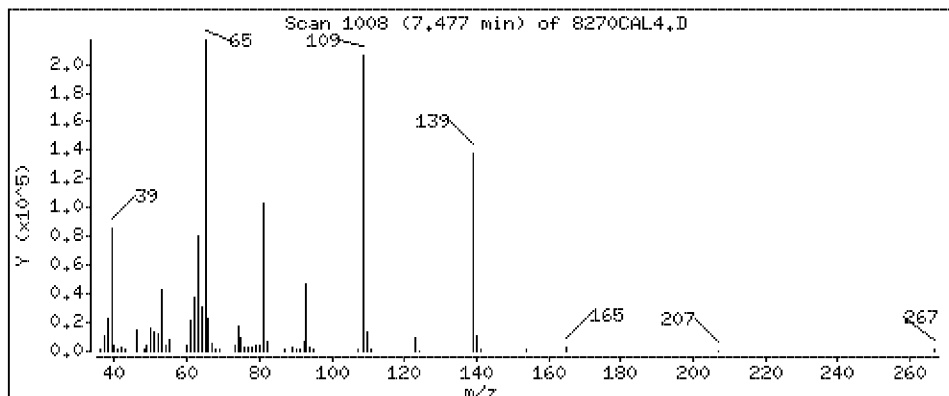
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

74 4-Nitrophenol

Concentration: 48.1 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

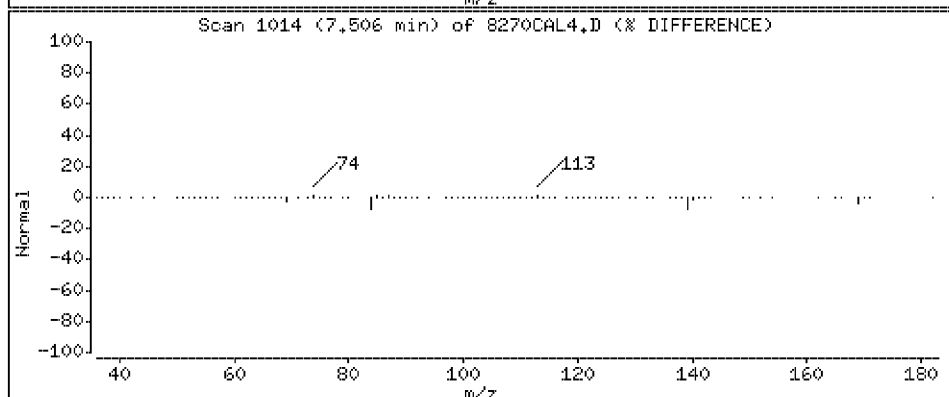
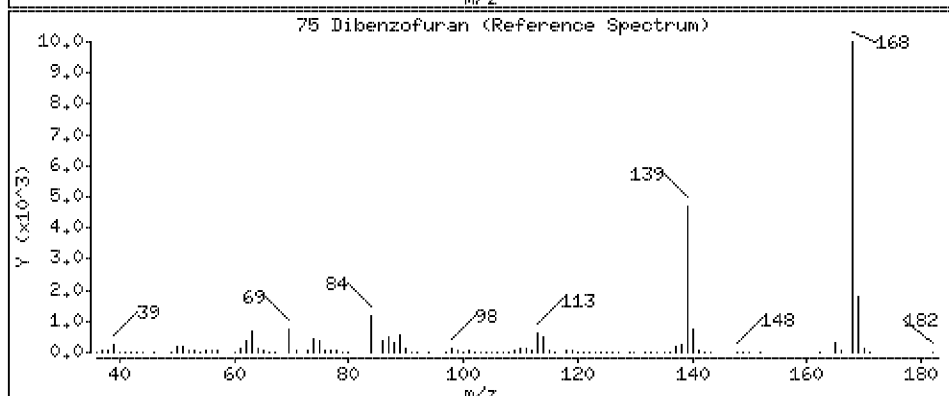
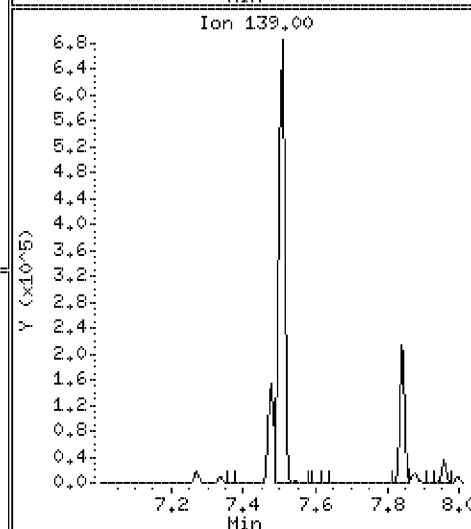
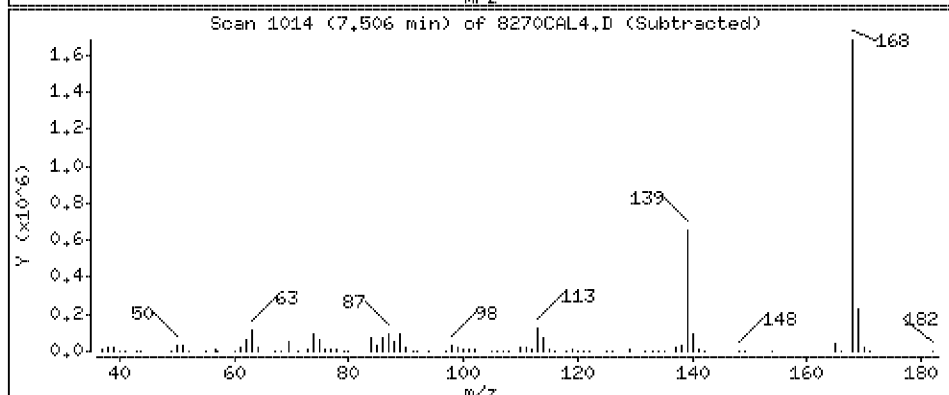
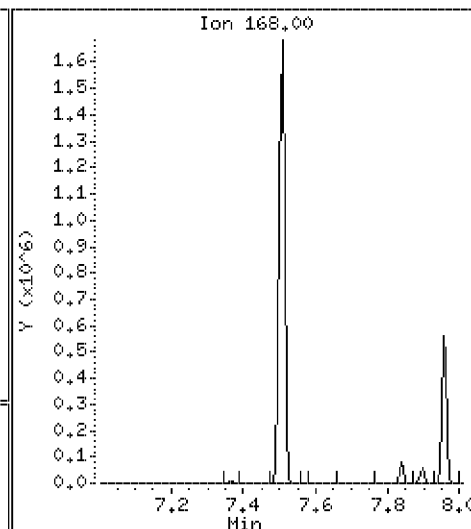
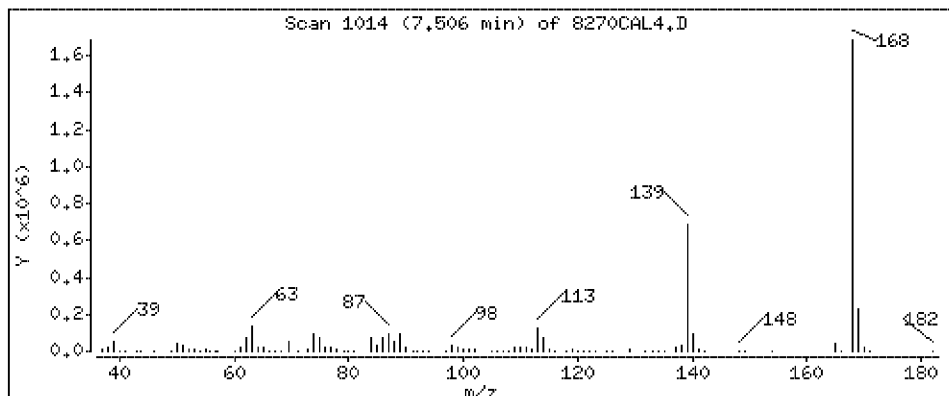
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

75 Dibenzofuran

Concentration: 46.6 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

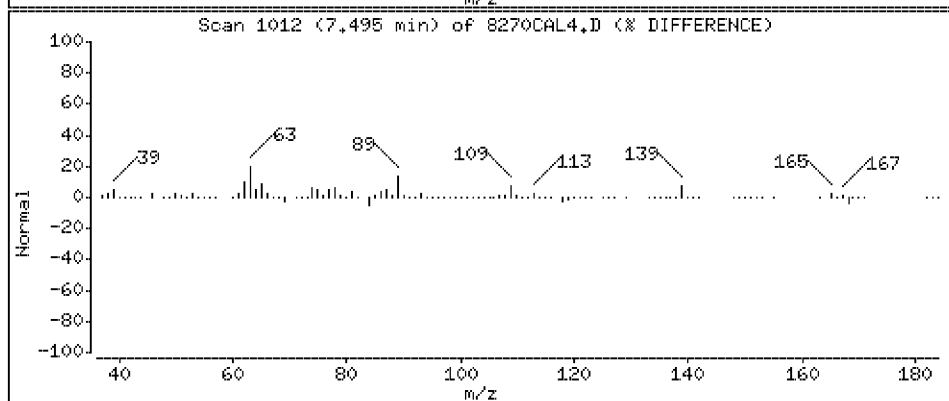
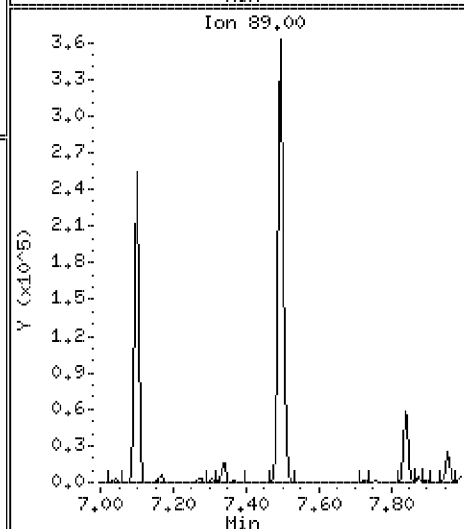
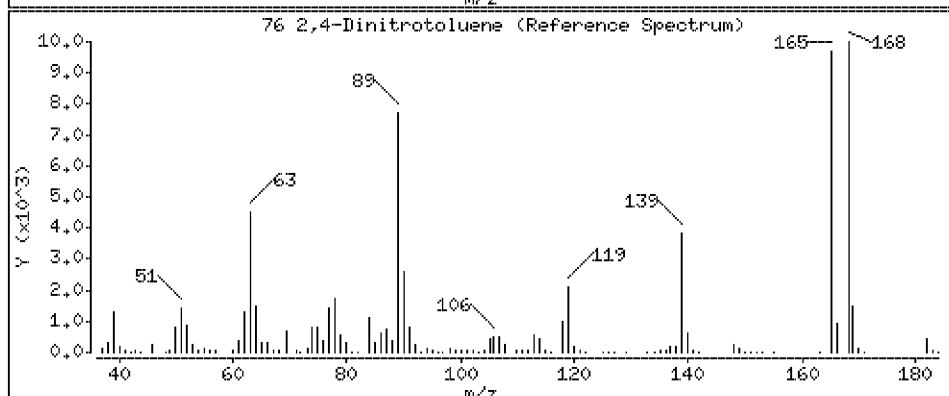
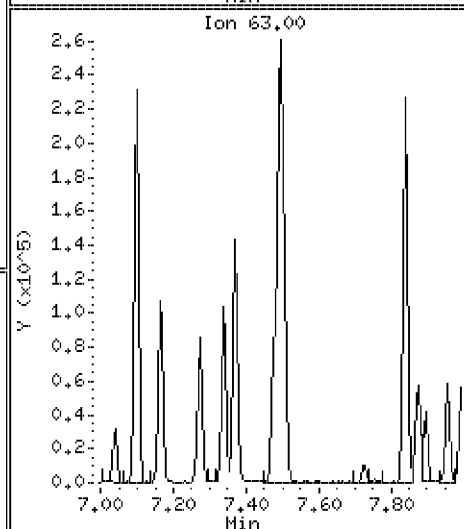
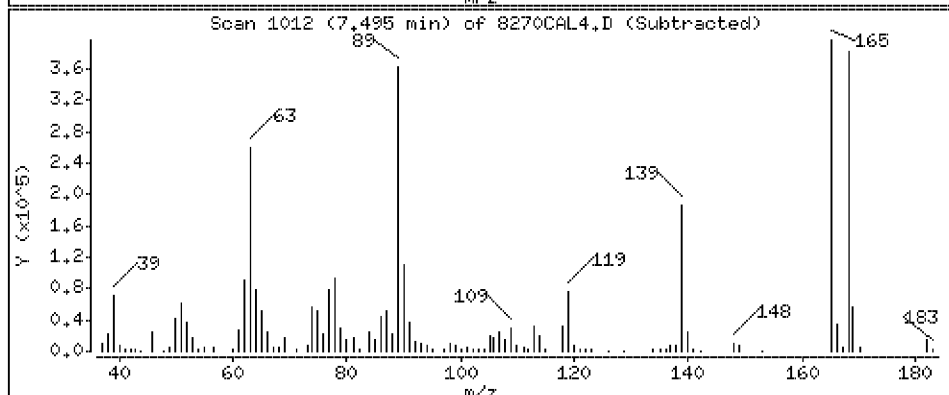
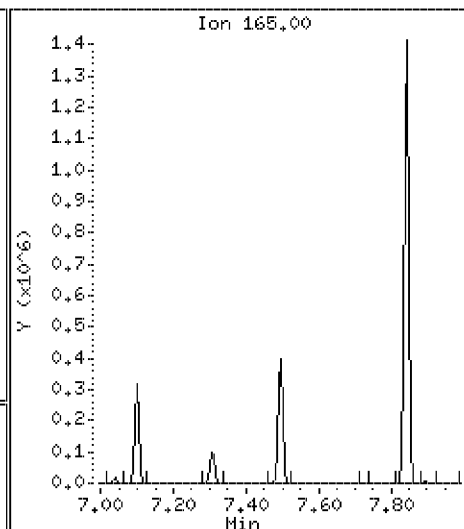
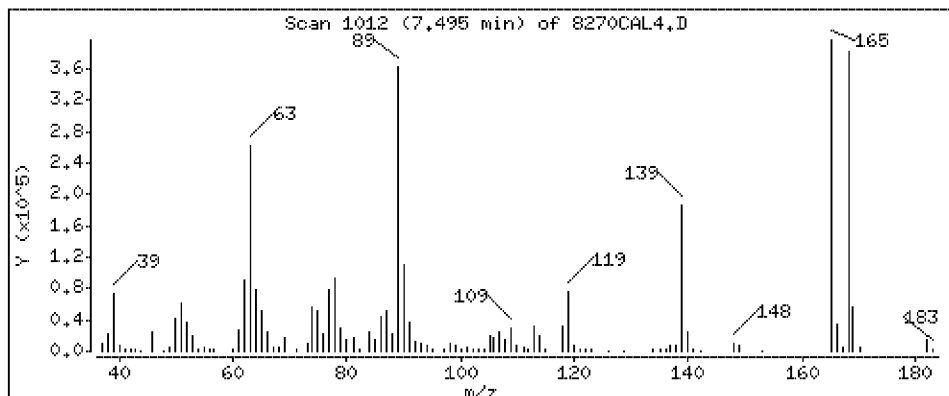
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

76 2,4-Dinitrotoluene

Concentration: 45.6 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

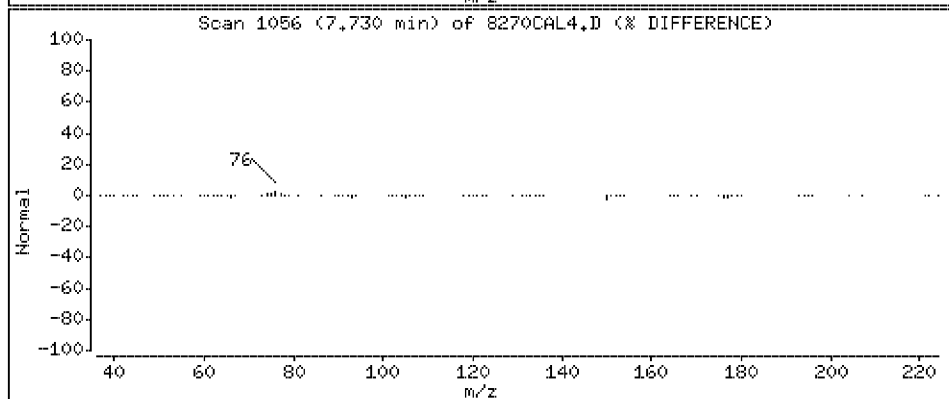
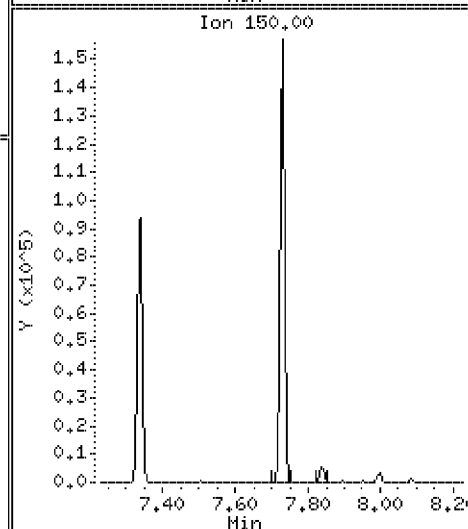
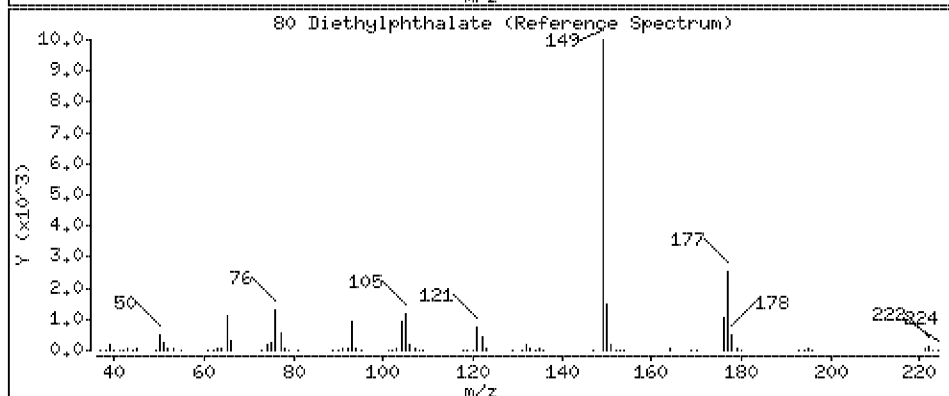
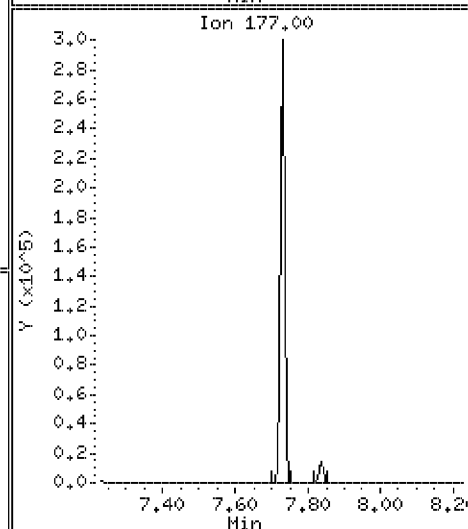
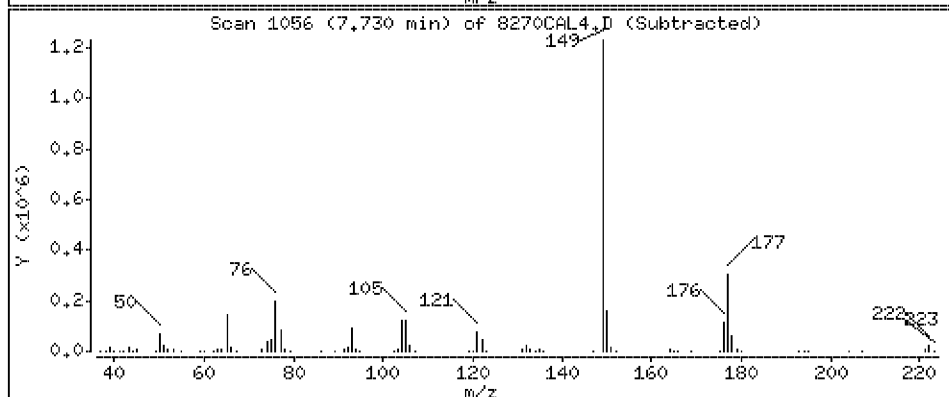
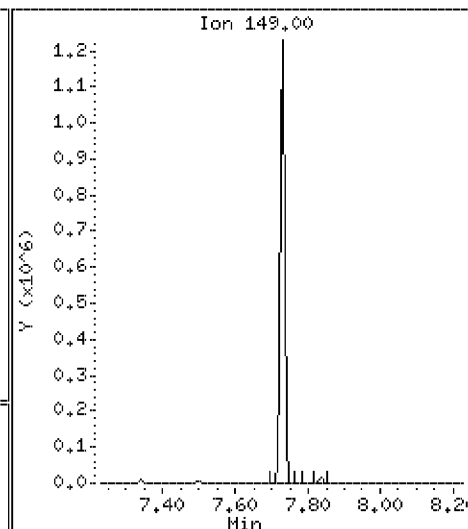
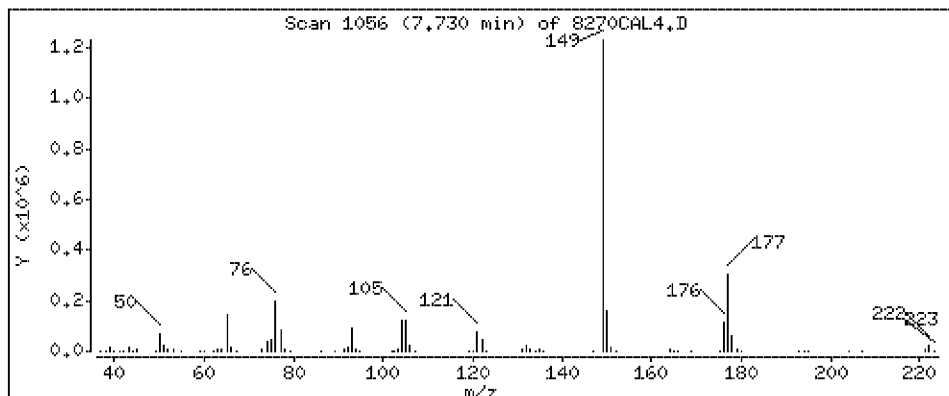
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

80 Diethylphthalate

Concentration: 46.4 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

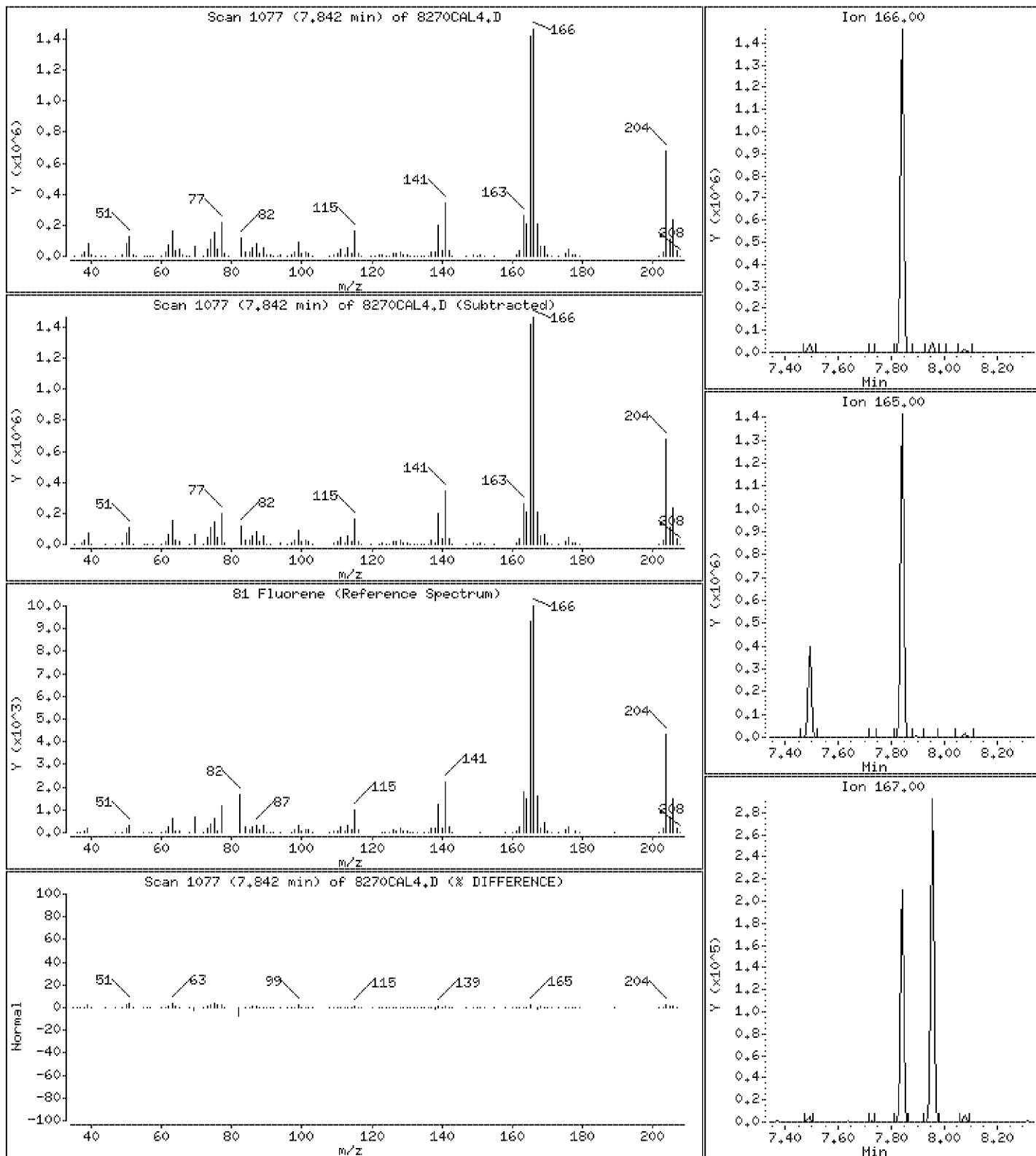
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

81 Fluorene

Concentration: 47.2 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

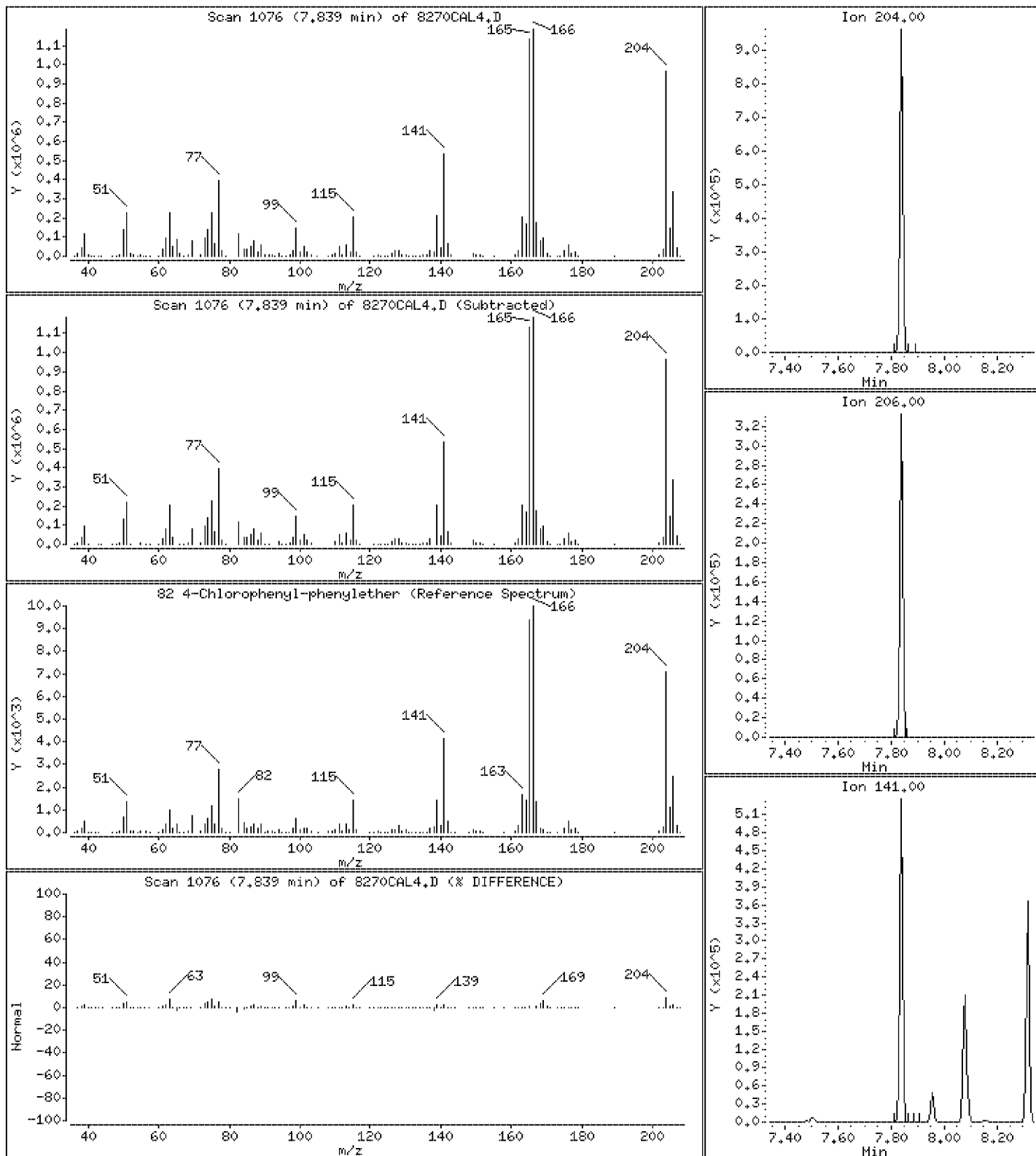
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

82 4-Chlorophenyl-phenylether

Concentration: 46.8 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

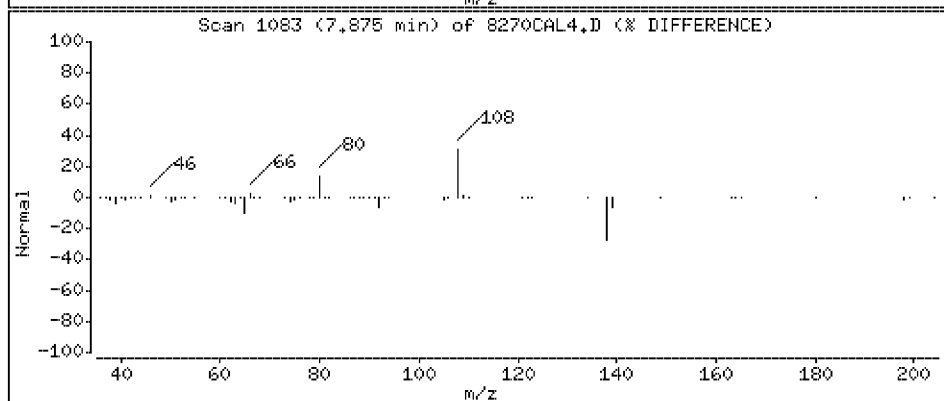
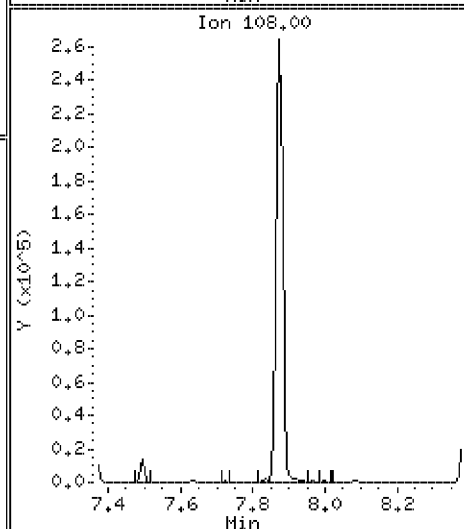
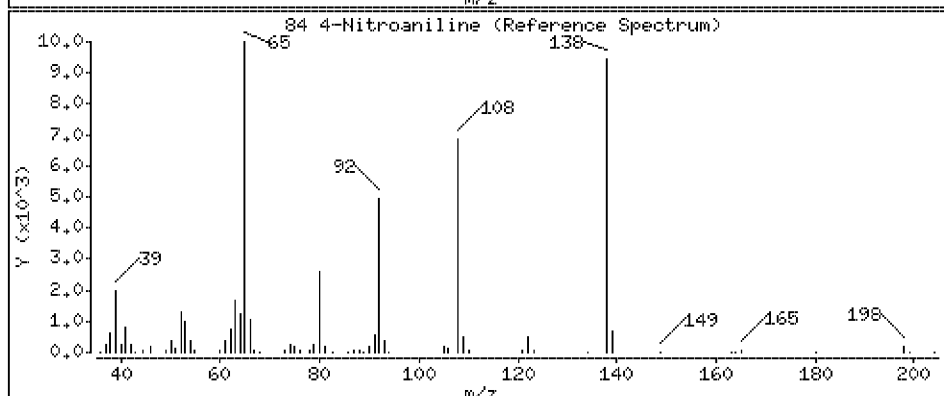
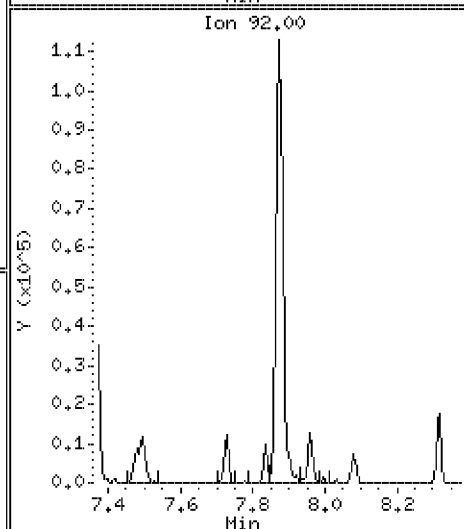
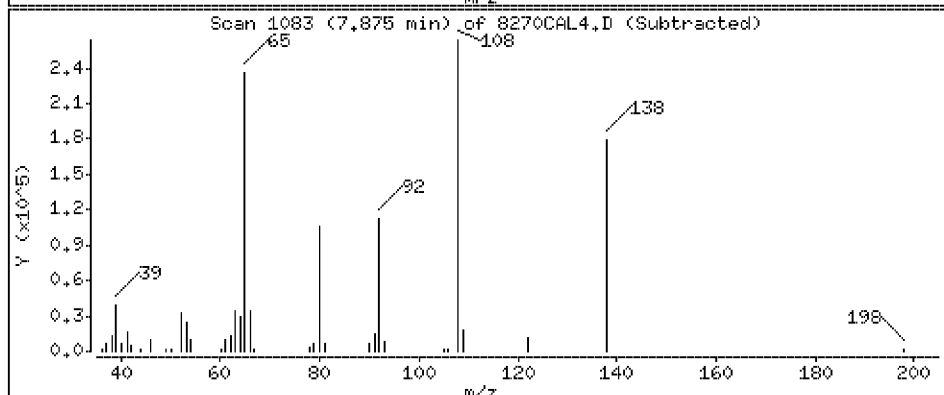
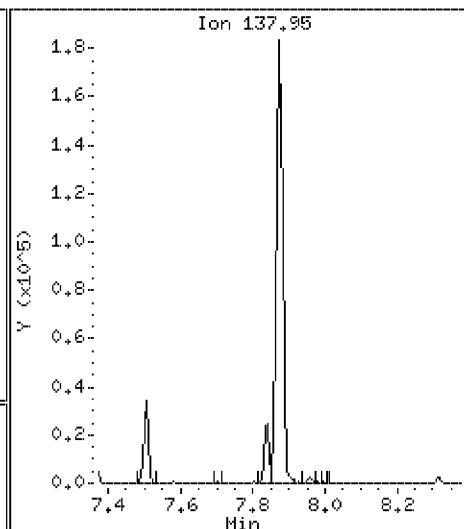
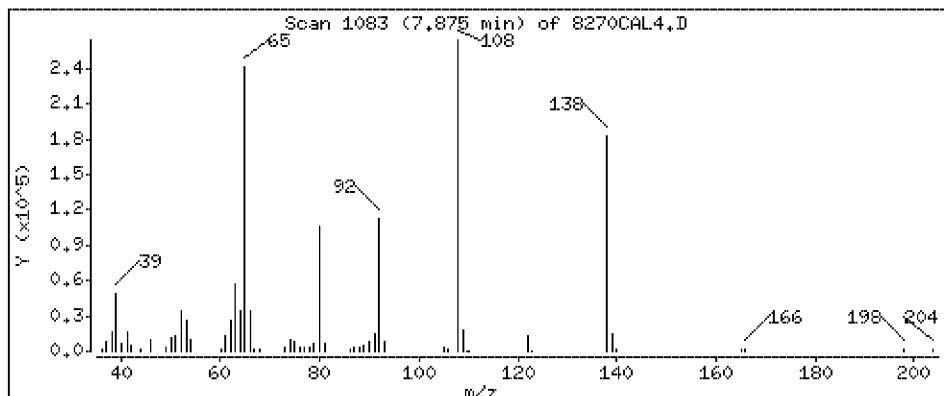
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

84 4-Nitroaniline

Concentration: 42.6 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

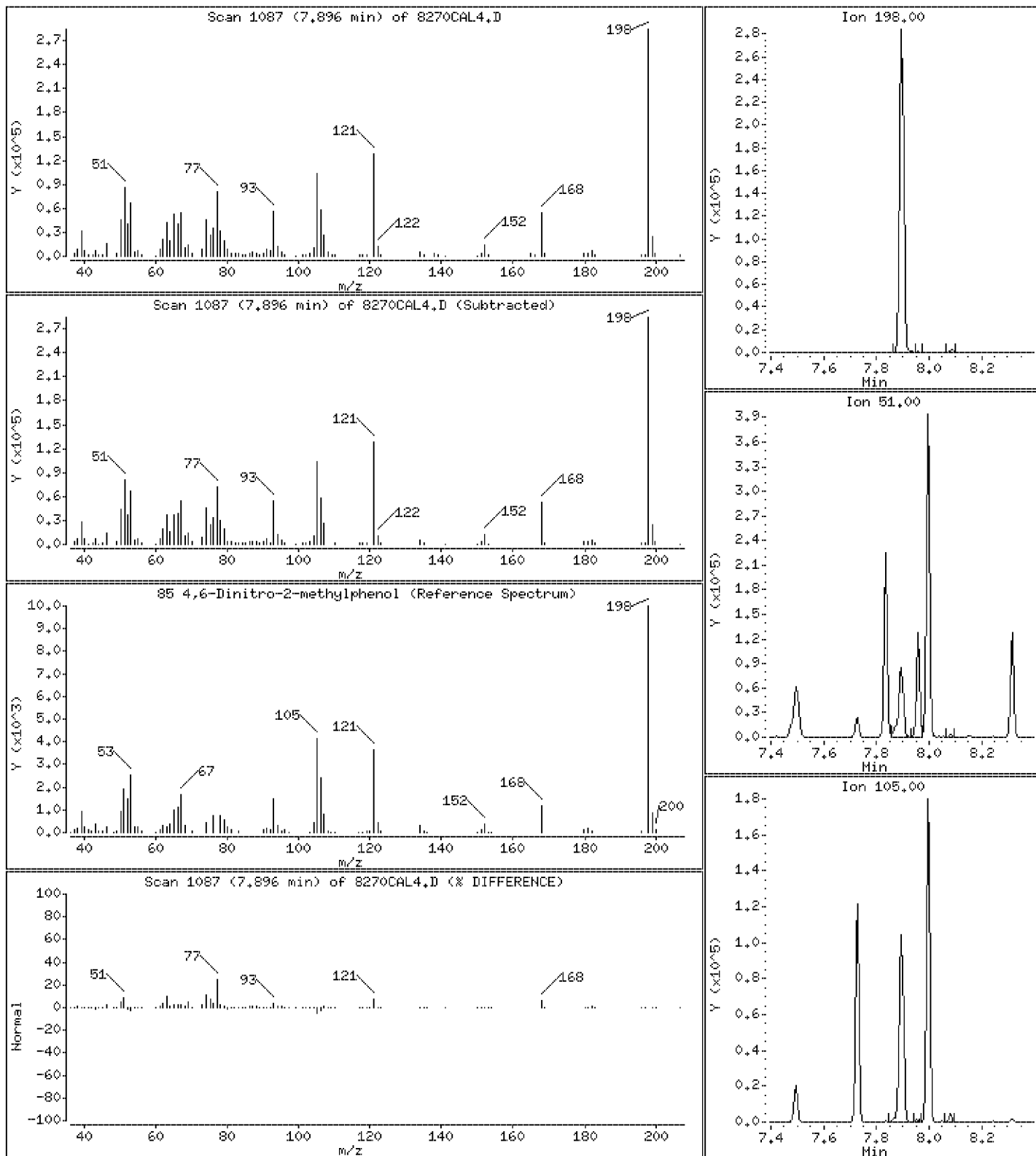
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

85 4,6-Dinitro-2-methylphenol

Concentration: 44.2 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

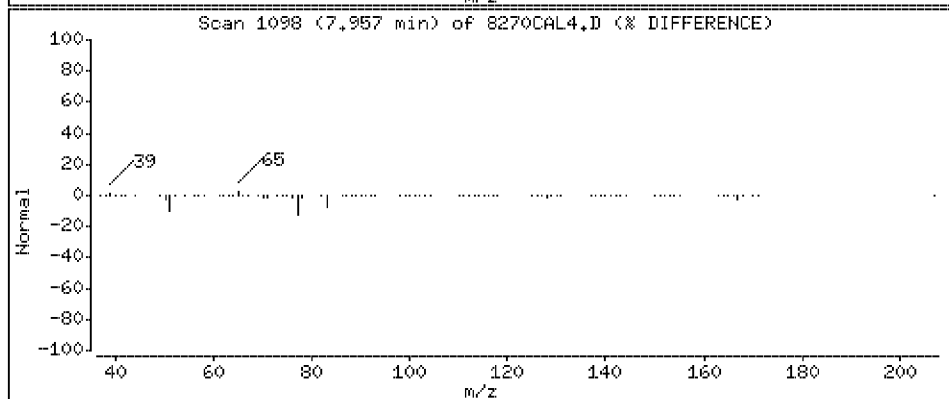
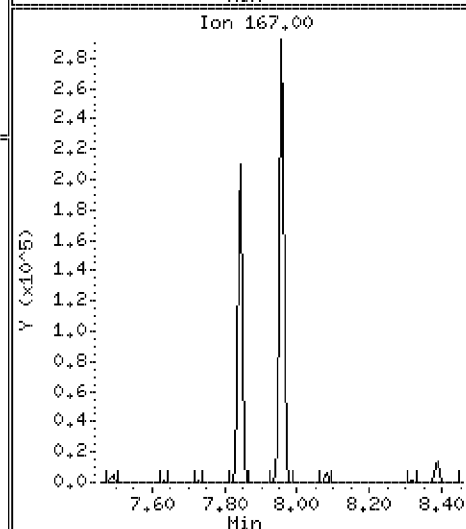
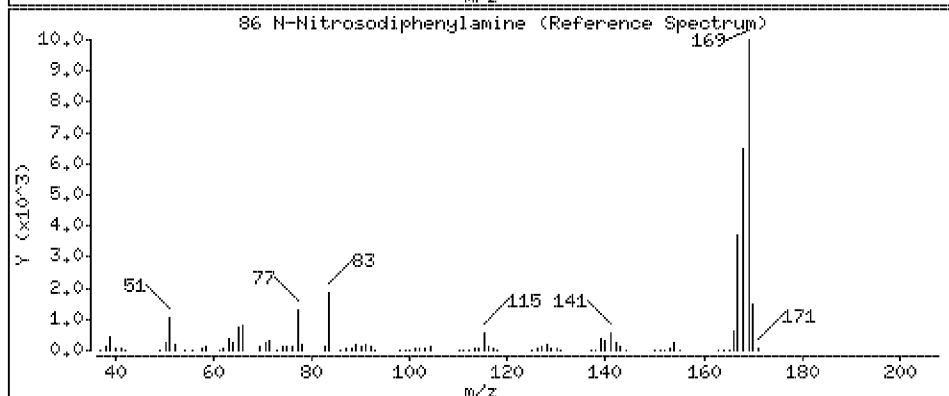
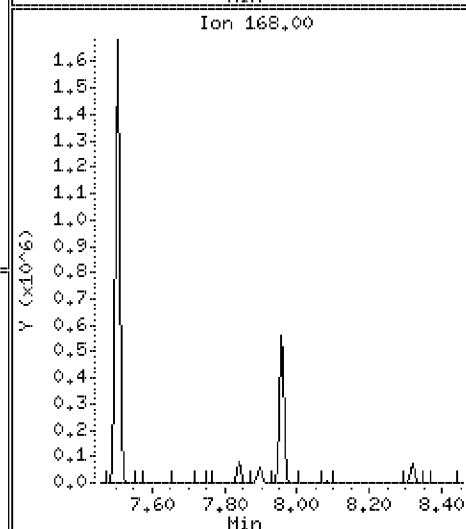
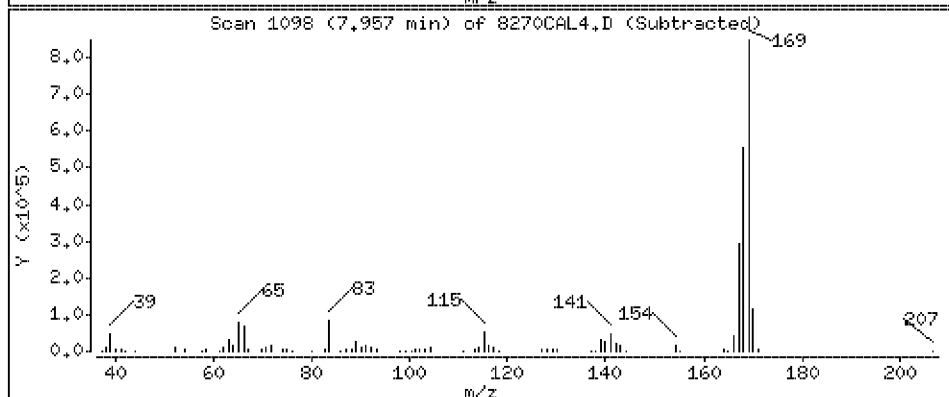
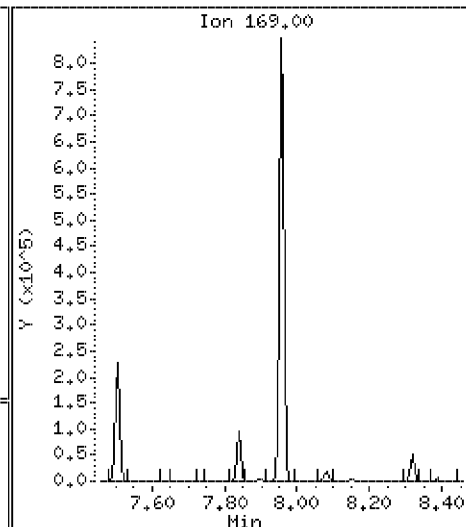
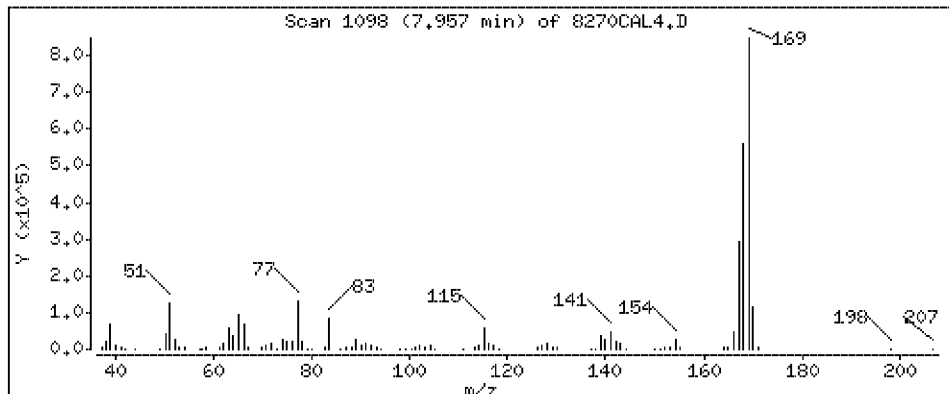
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

86 N-Nitrosodiphenylamine

Concentration: 45.4 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

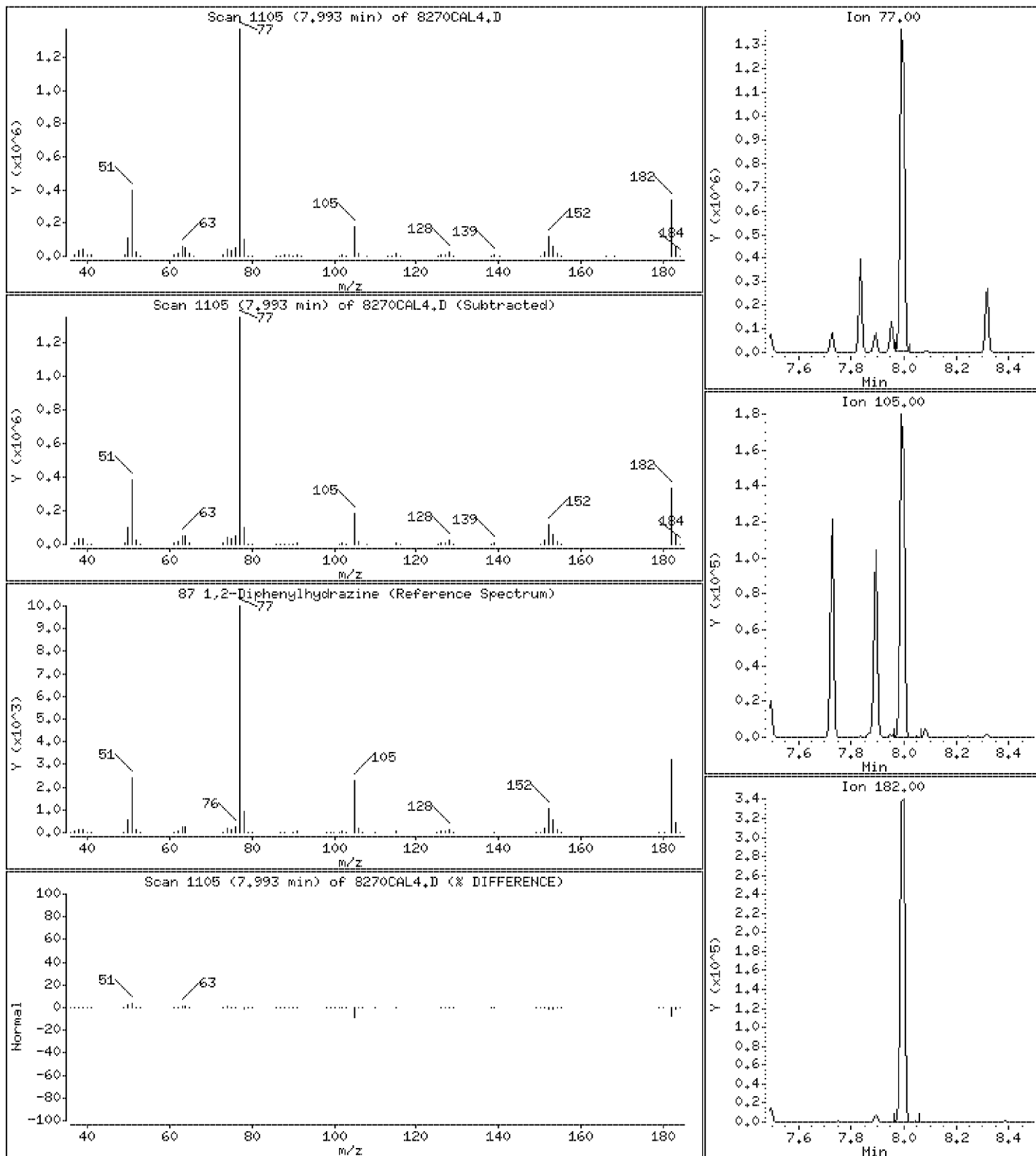
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

87 1,2-Diphenylhydrazine

Concentration: 46.0 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

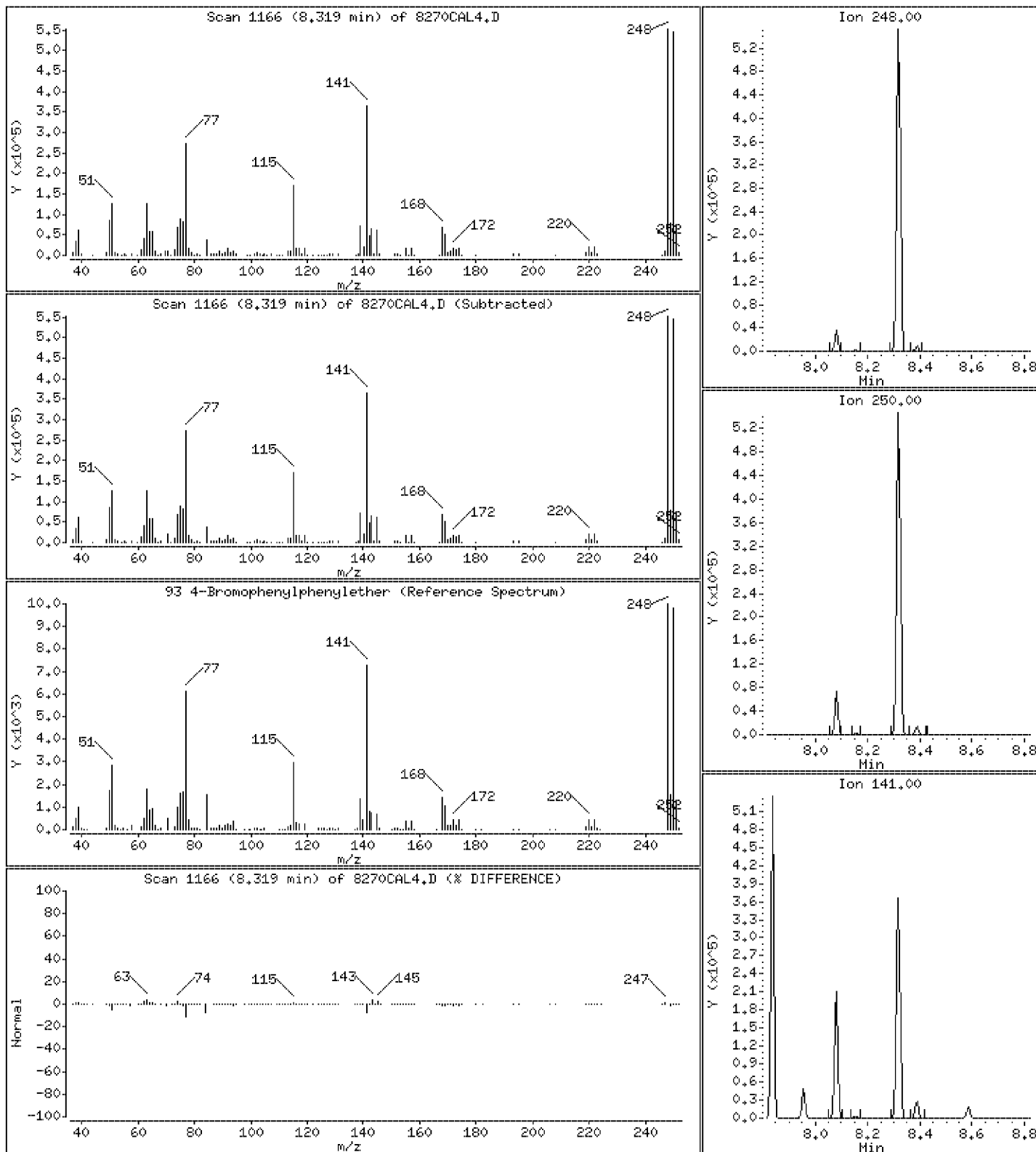
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

93 4-Bromophenylphenylether

Concentration: 46.3 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

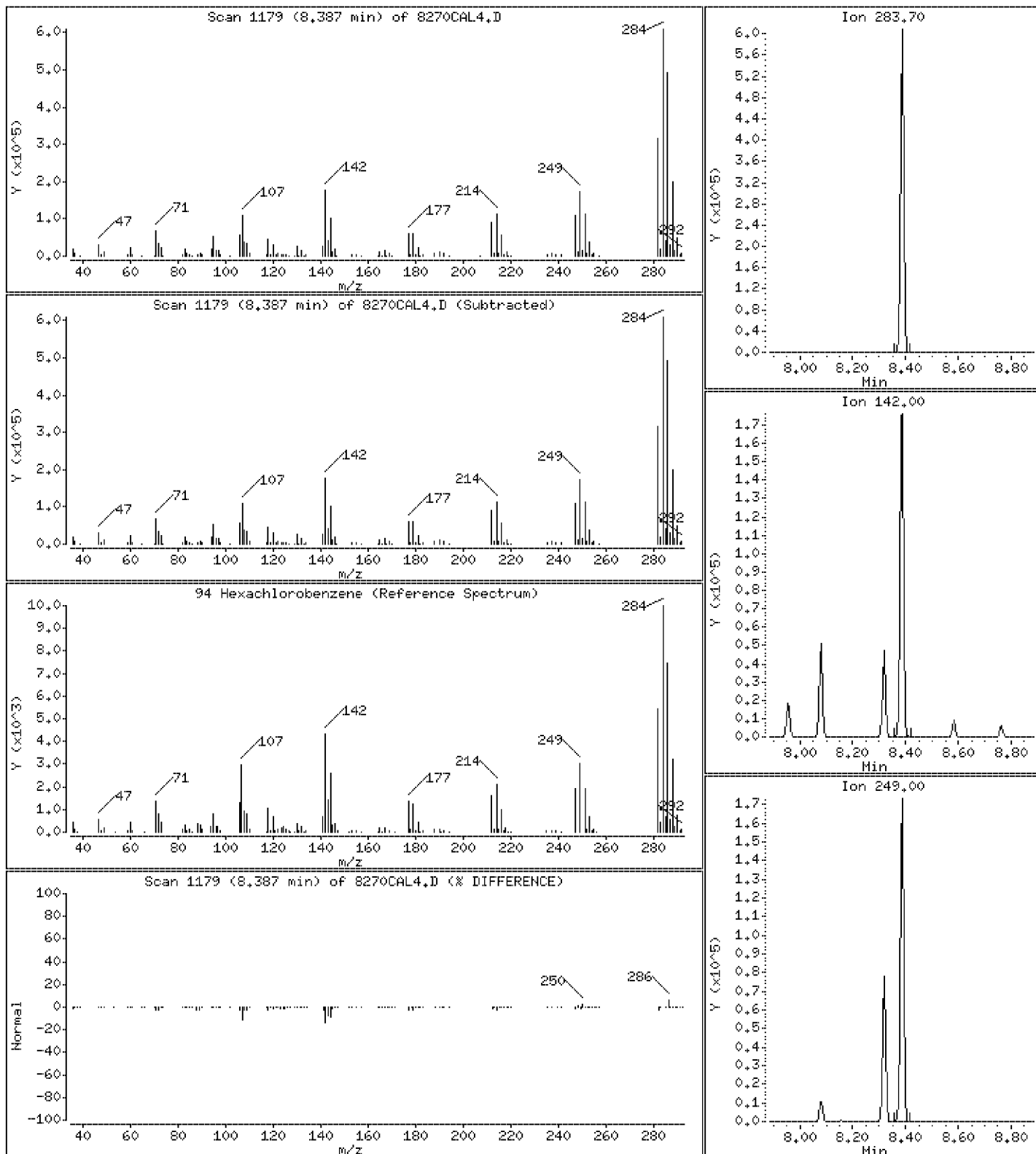
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

94 Hexachlorobenzene

Concentration: 46.1 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

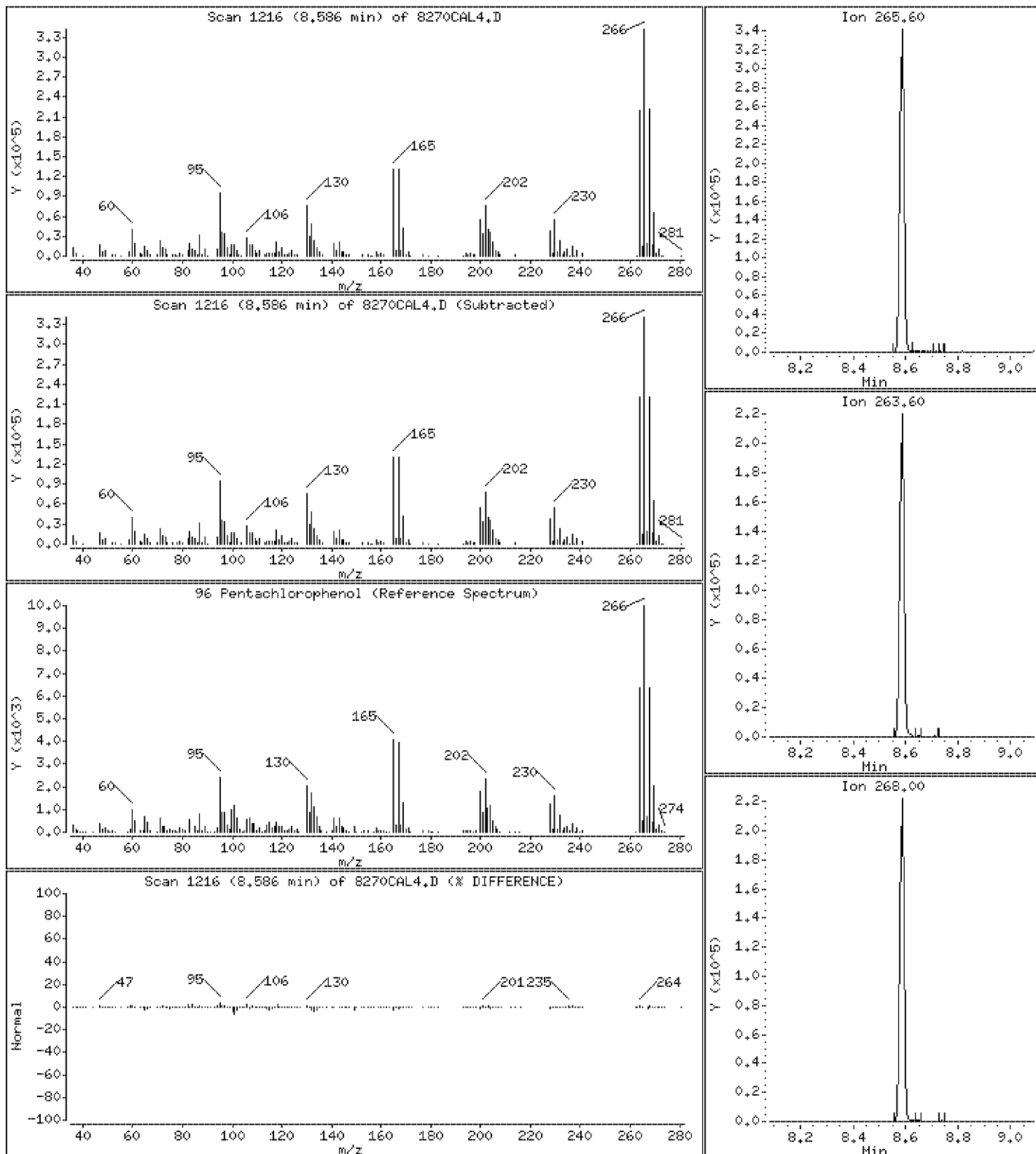
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

96 Pentachlorophenol

Concentration: 46.6 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

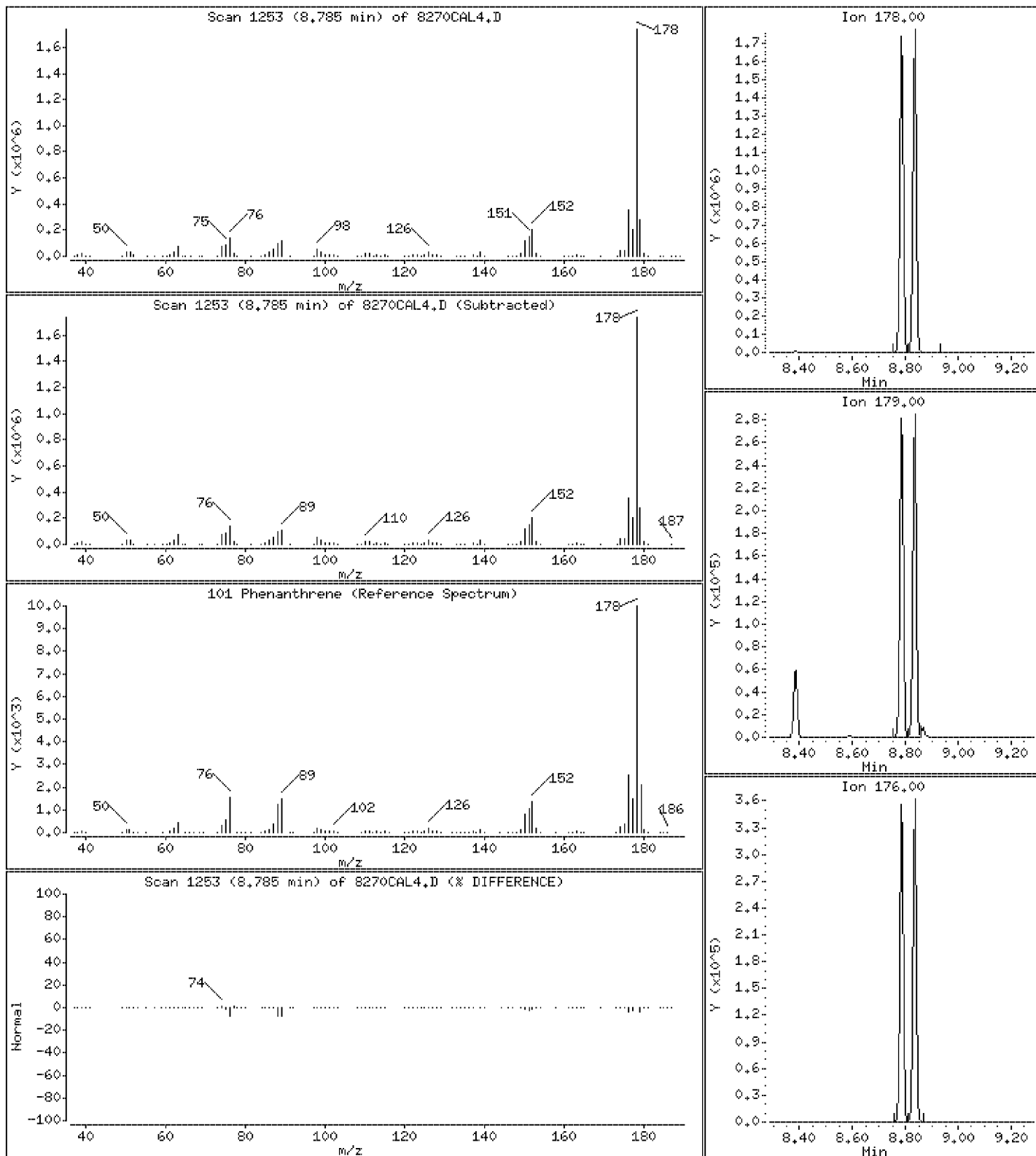
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

101 Phenanthrene

Concentration: 47.2 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

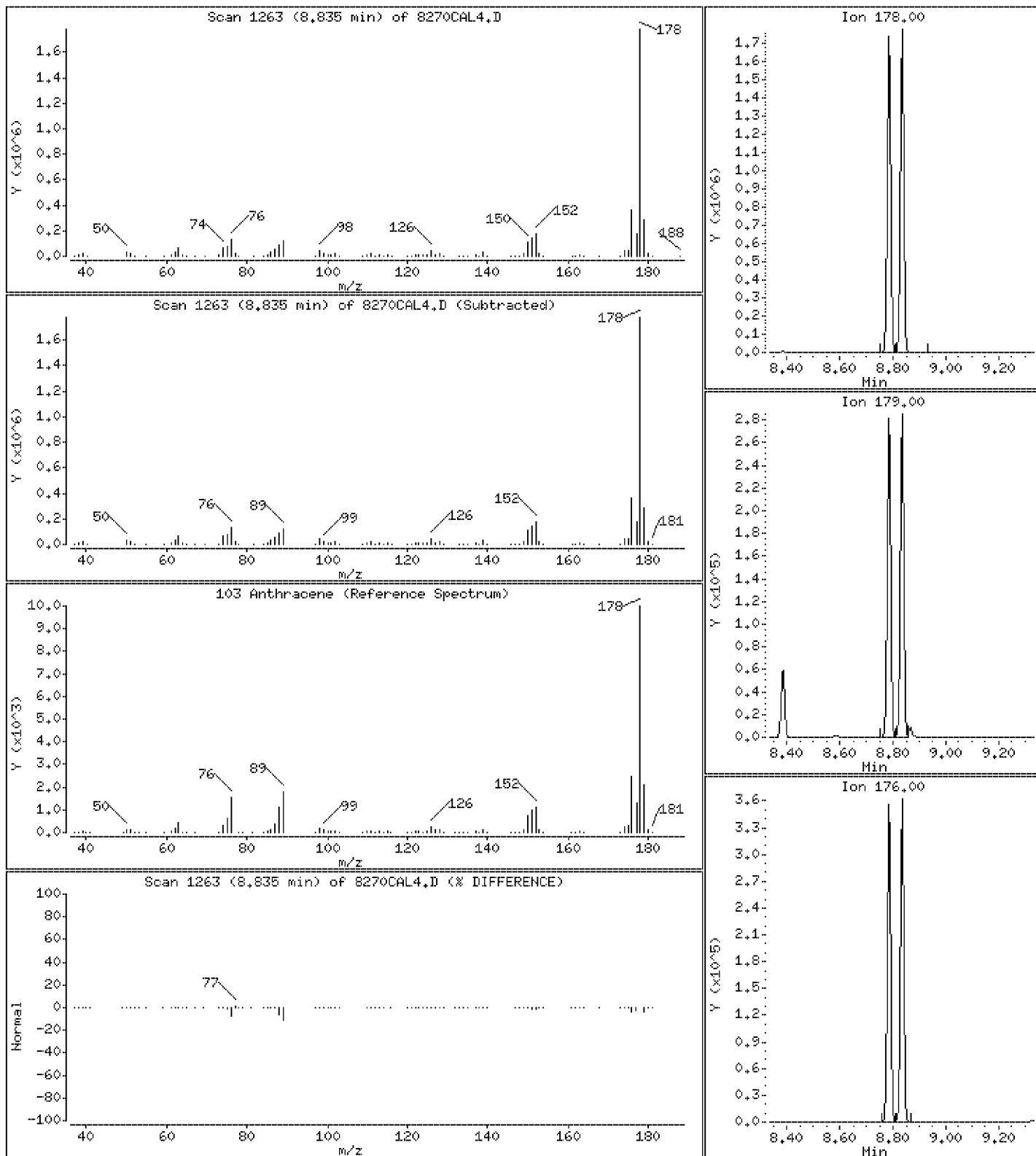
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

103 Anthracene

Concentration: 47.2 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

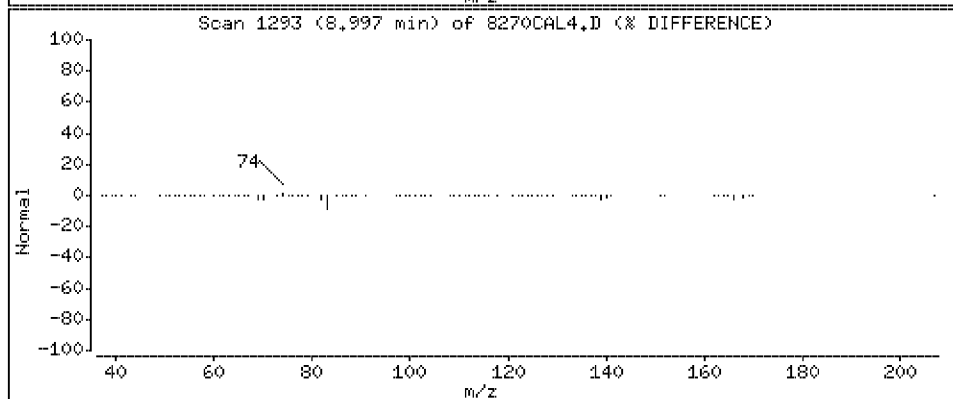
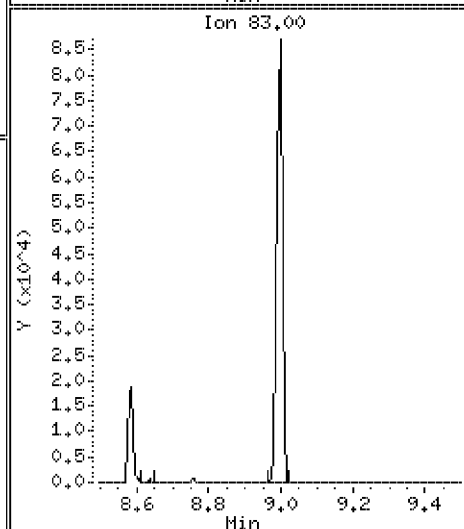
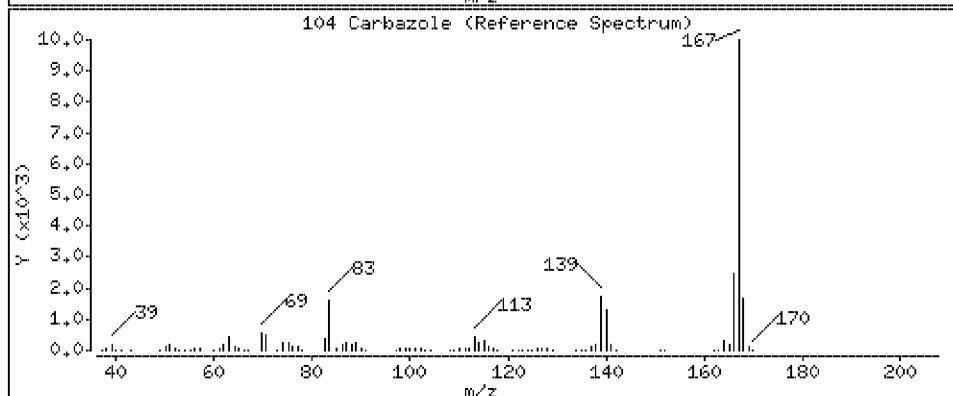
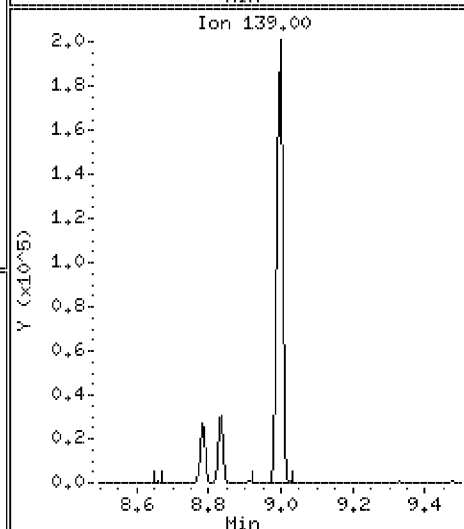
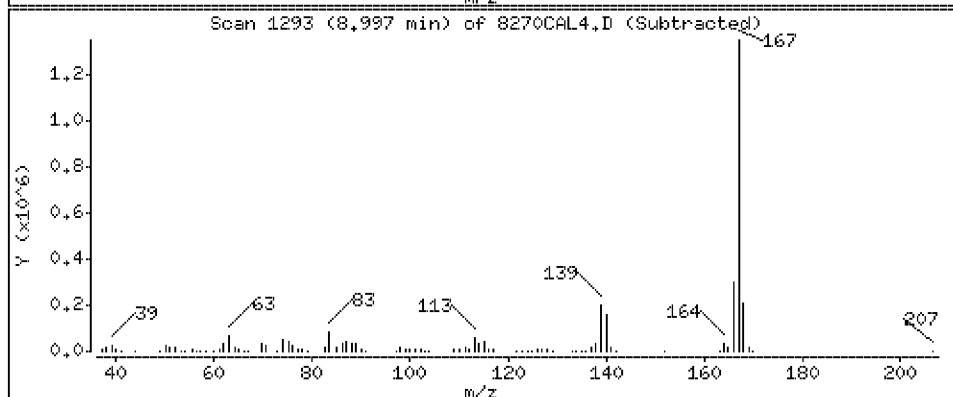
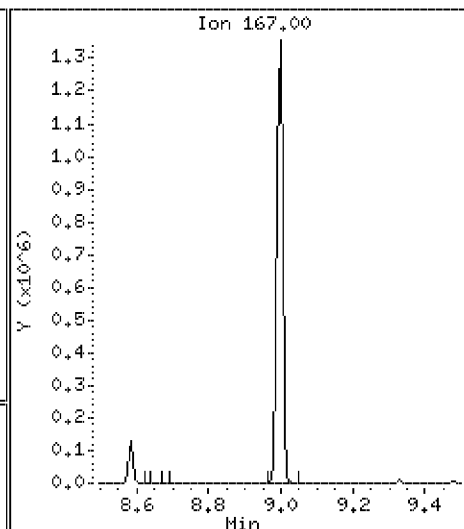
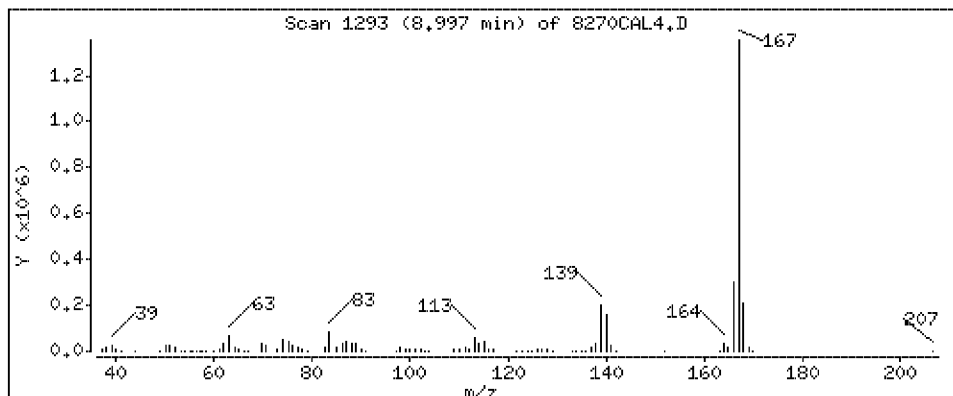
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

104 Carbazole

Concentration: 44.5 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

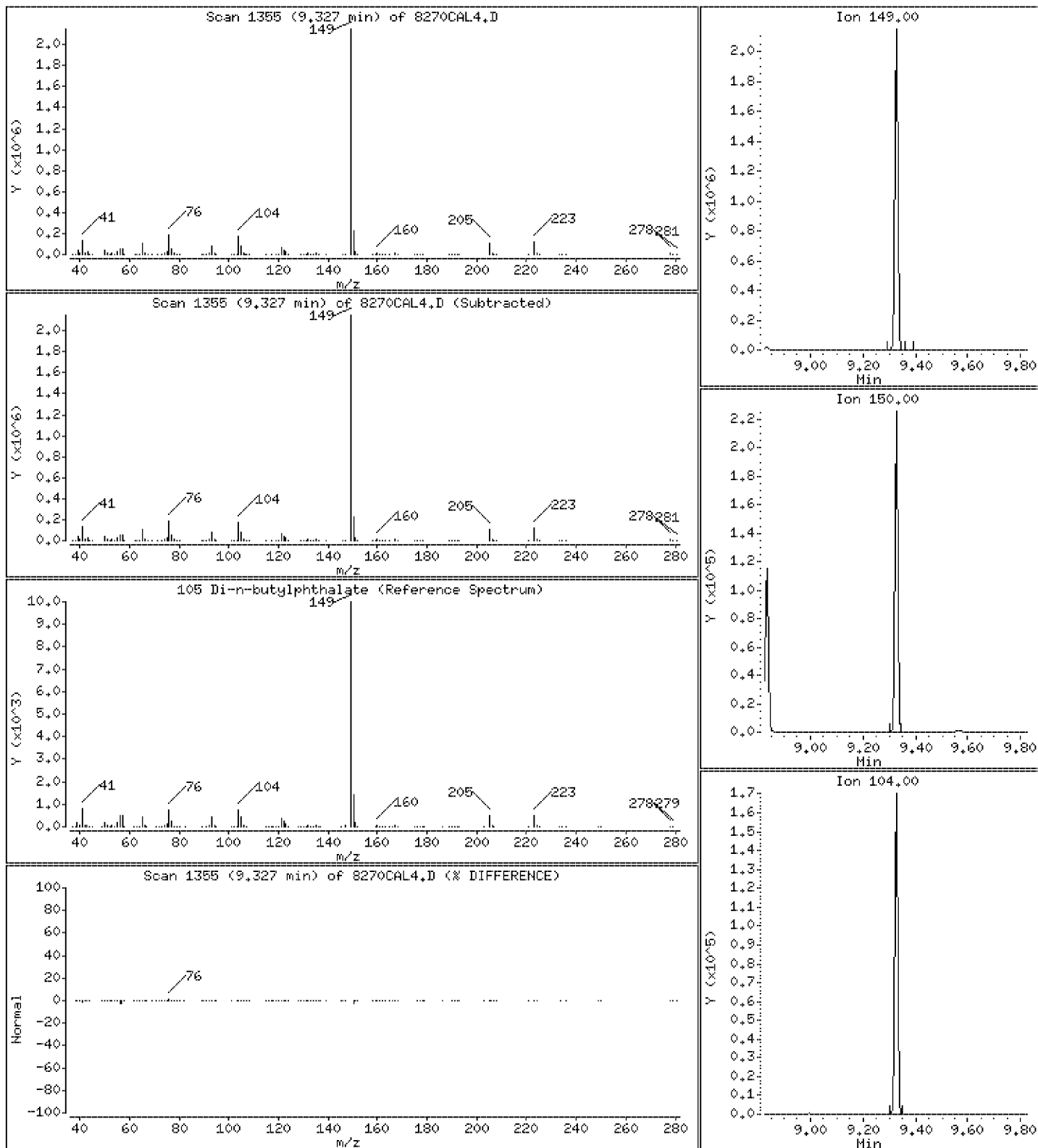
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

105 Di-n-butylphthalate

Concentration: 47.6 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

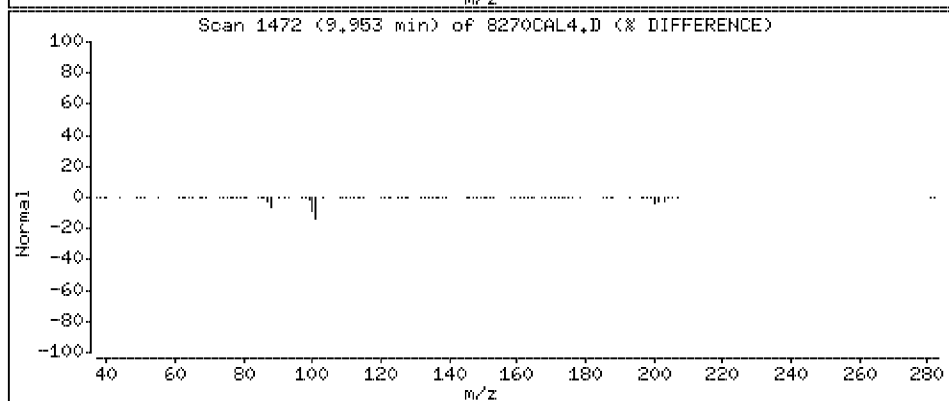
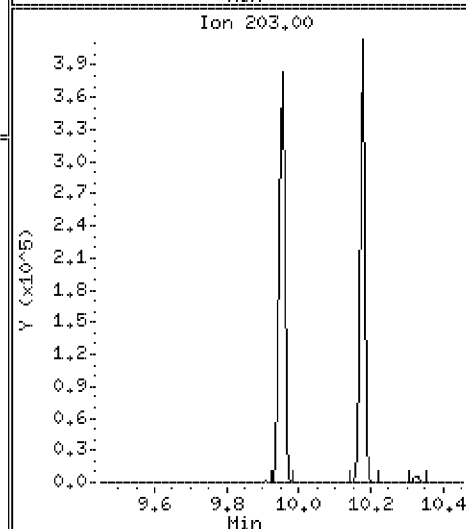
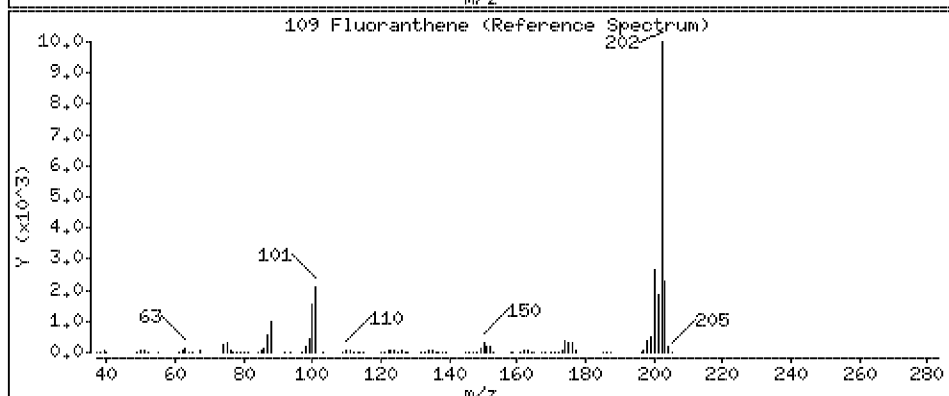
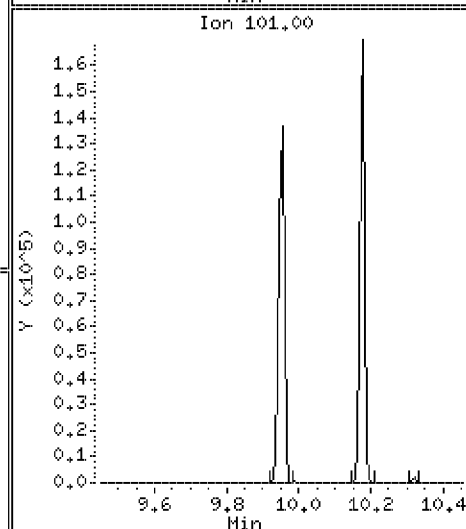
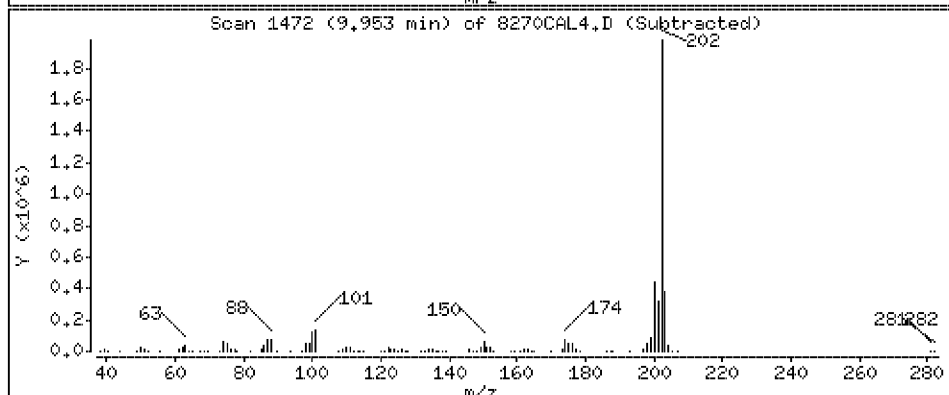
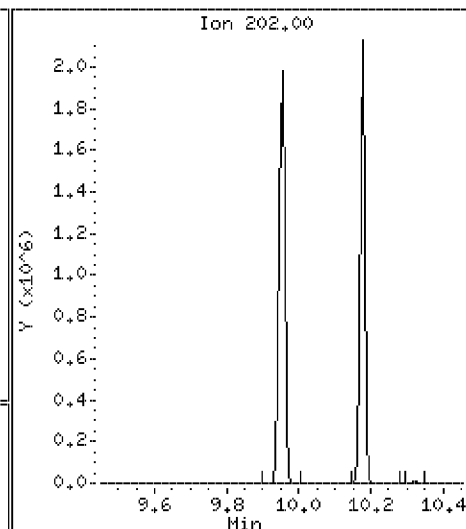
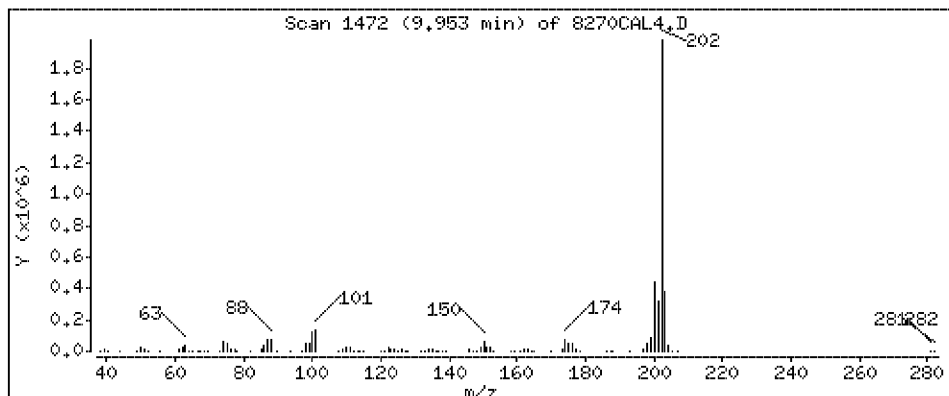
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

109 Fluoranthene

Concentration: 46.1 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

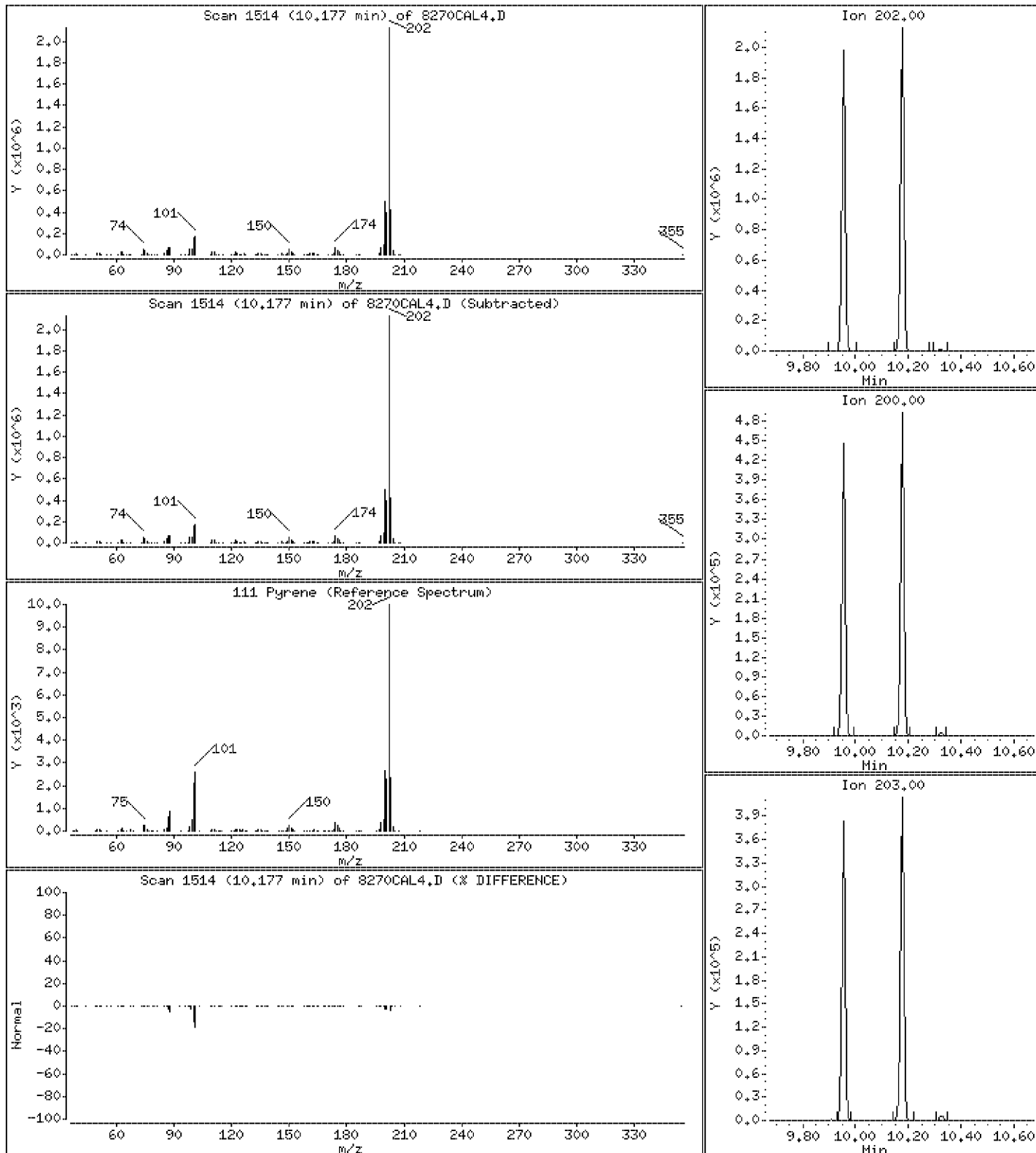
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

111 Pyrene

Concentration: 44.7 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

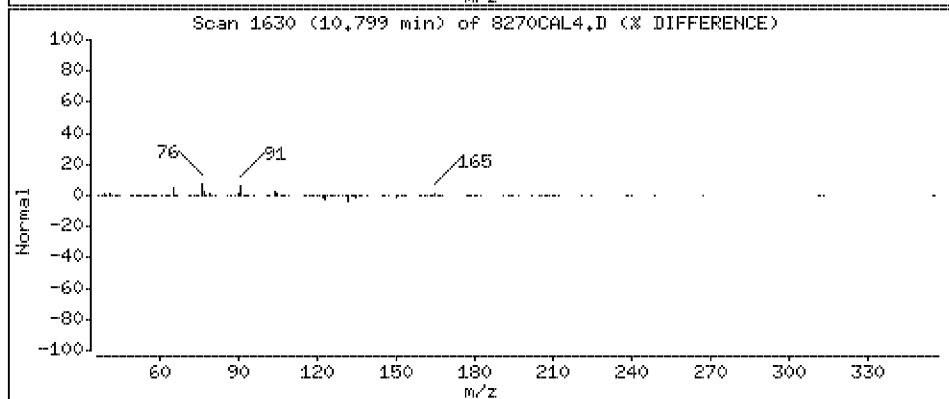
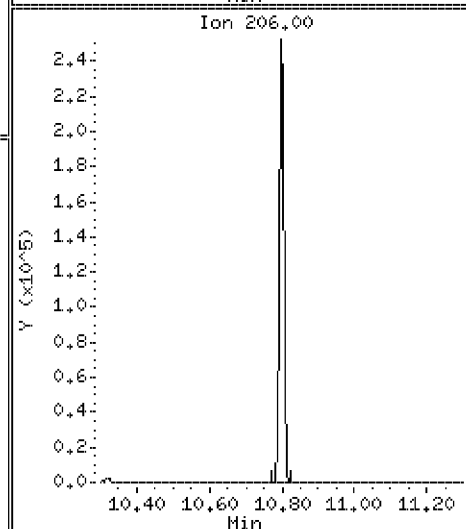
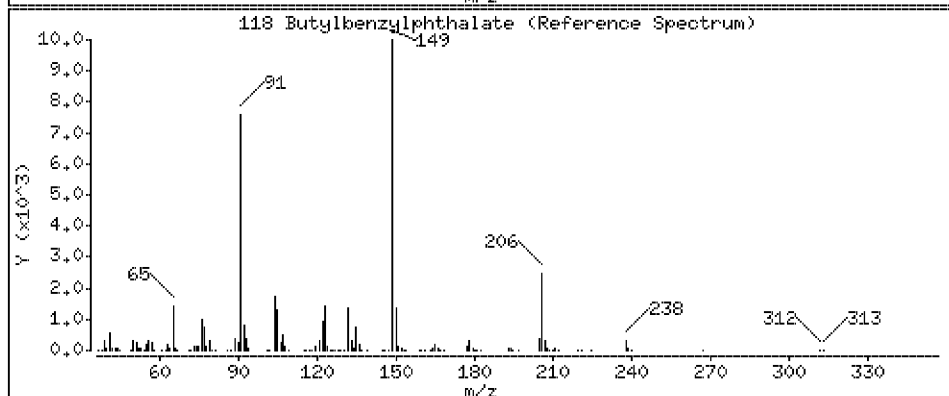
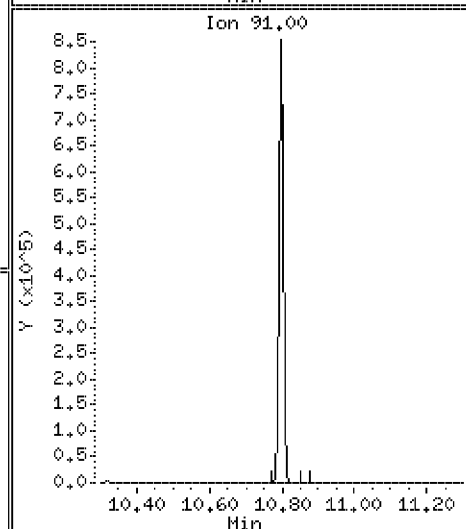
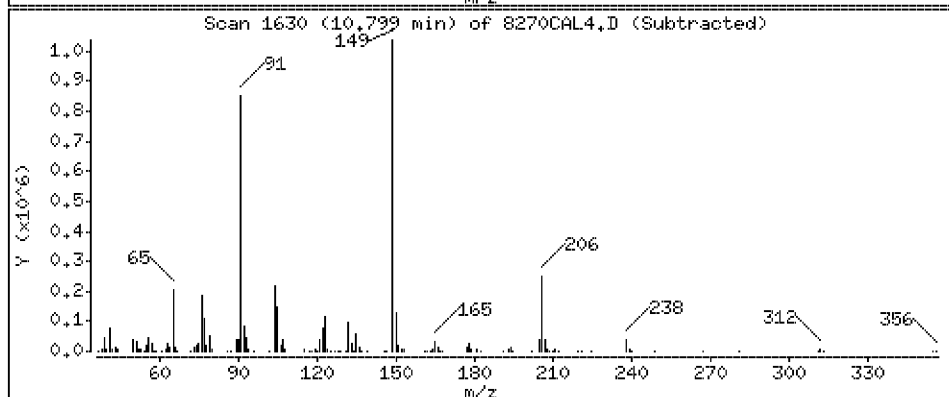
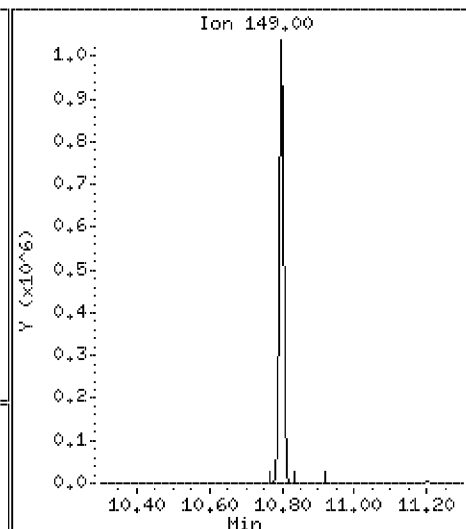
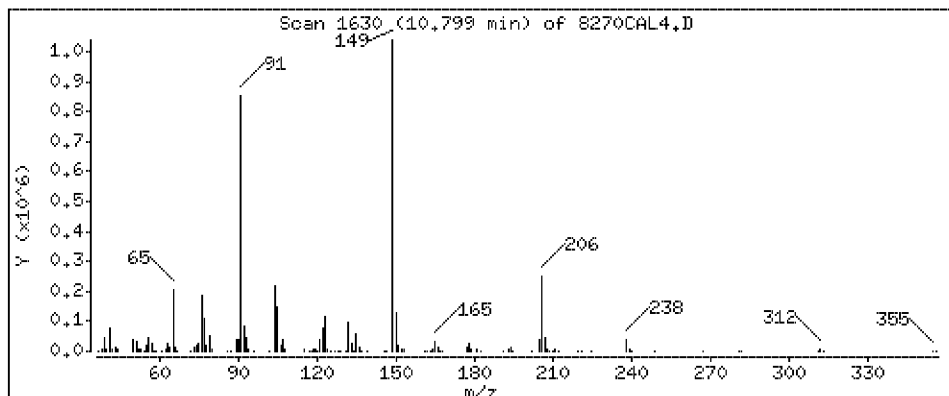
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

118 Butylbenzylphthalate

Concentration: 46.2 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

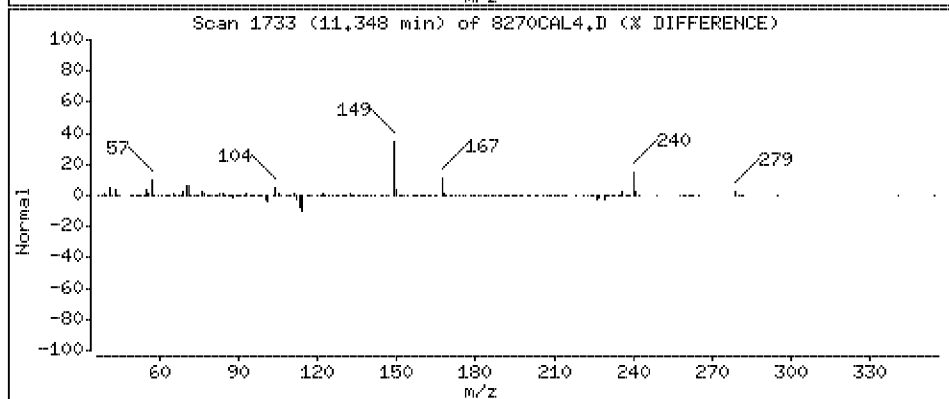
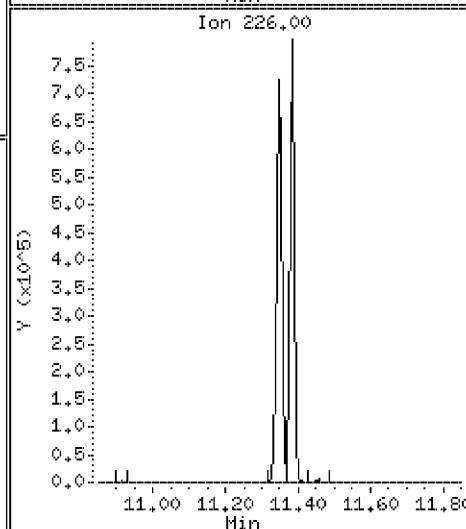
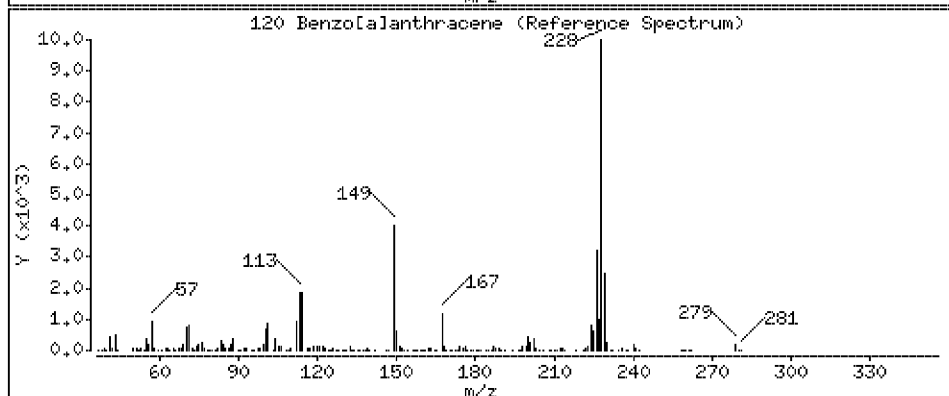
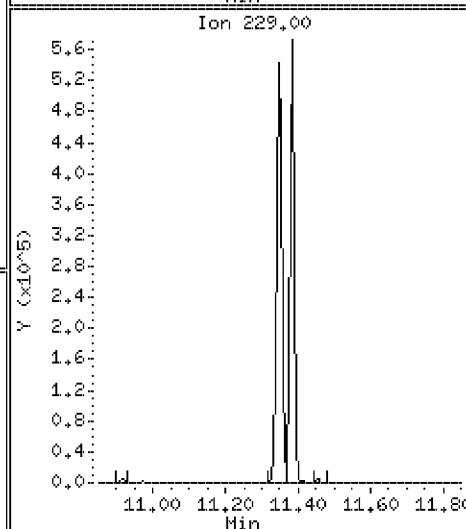
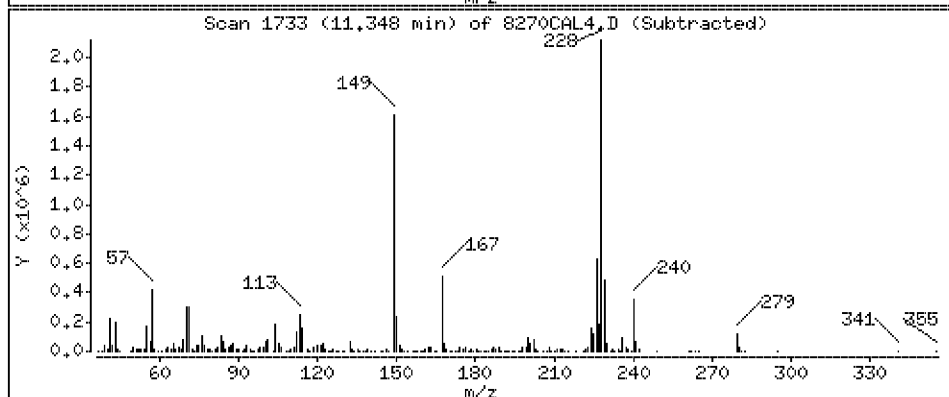
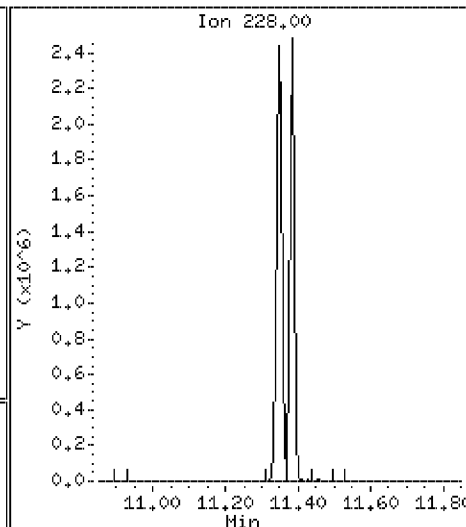
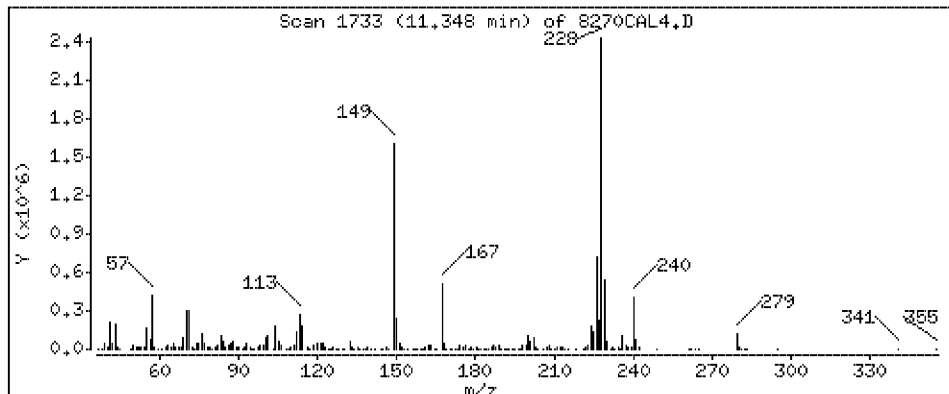
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

120 Benzo[*a*]anthracene

Concentration: 47.0 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

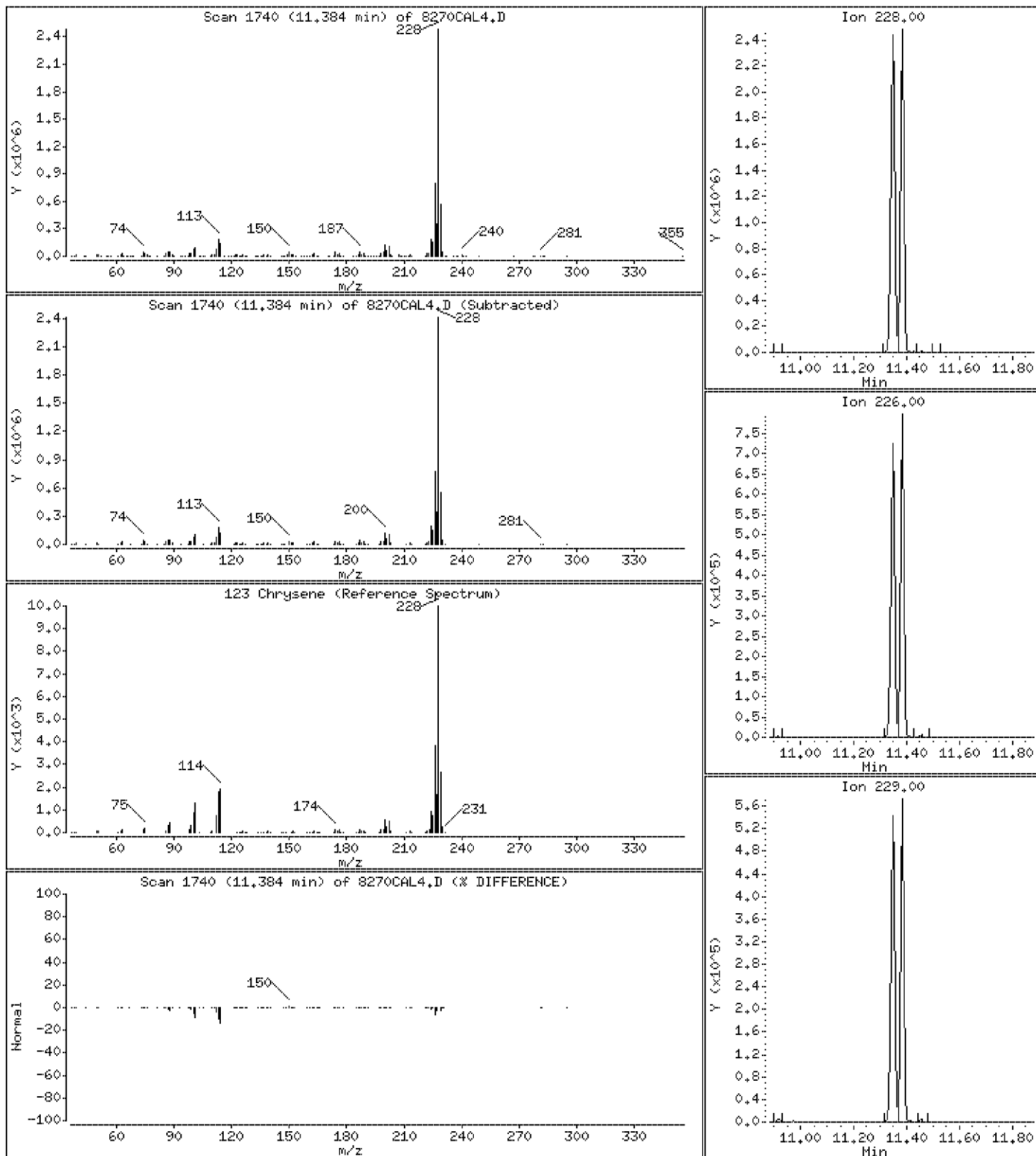
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

123 Chrysene

Concentration: 45.7 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

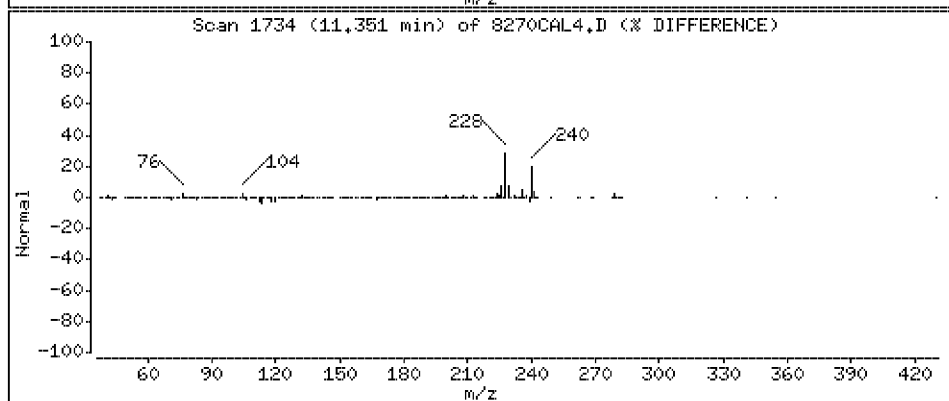
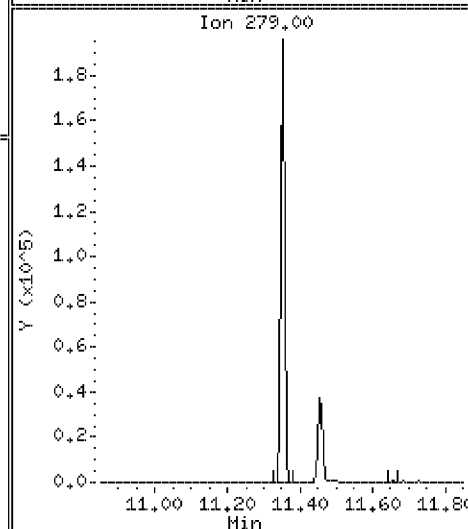
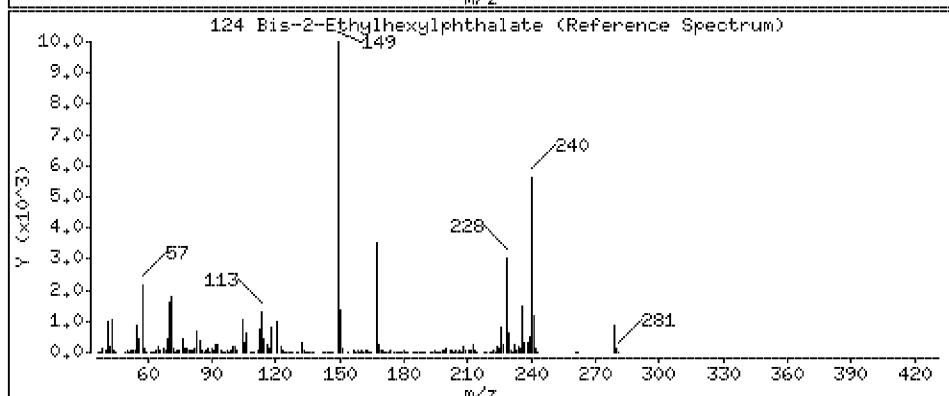
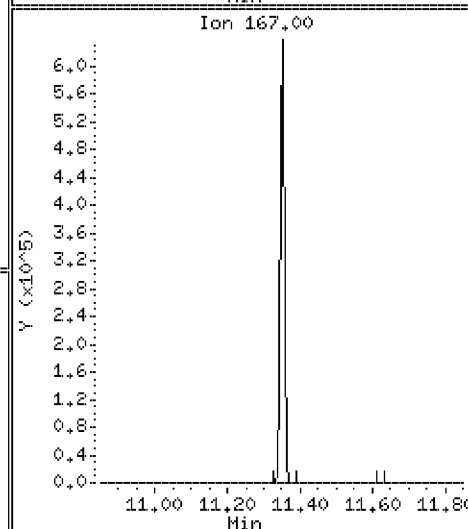
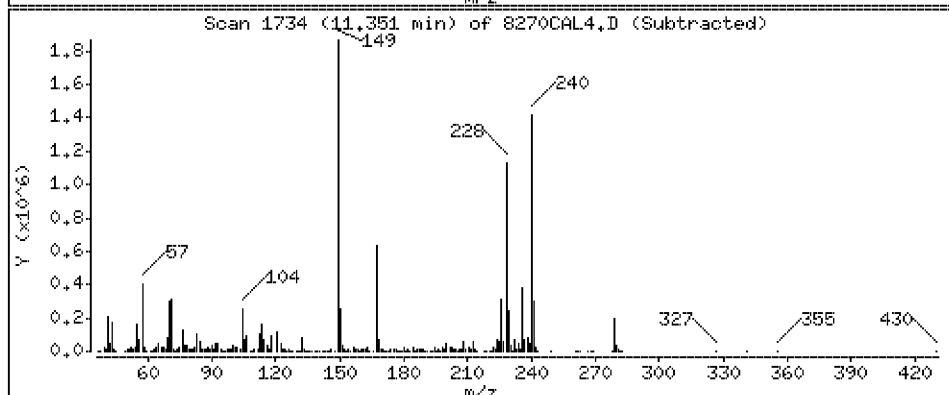
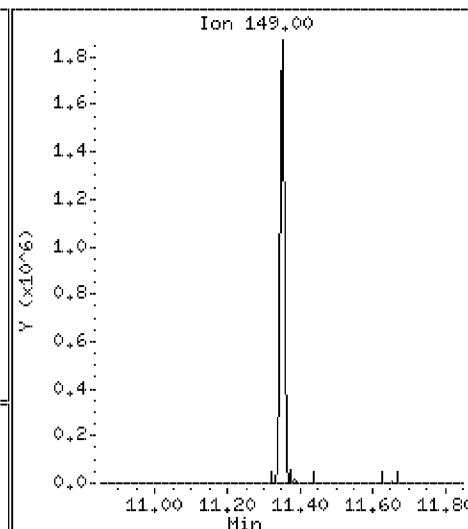
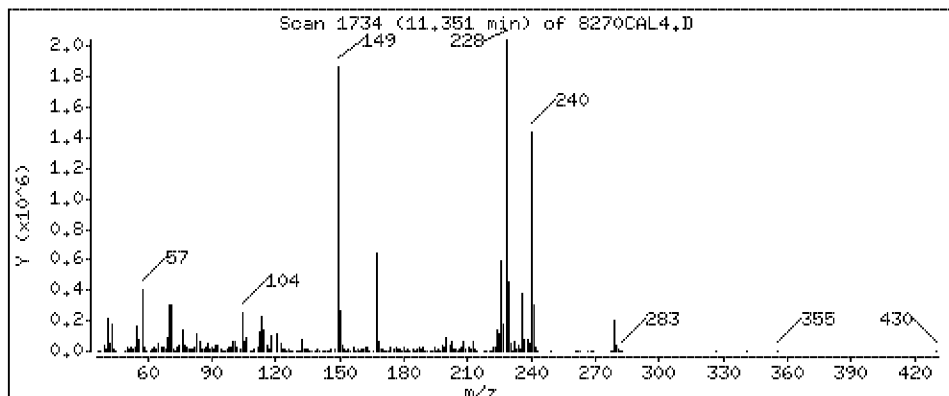
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

124 Bis-2-Ethylhexylphthalate

Concentration: 47.8 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

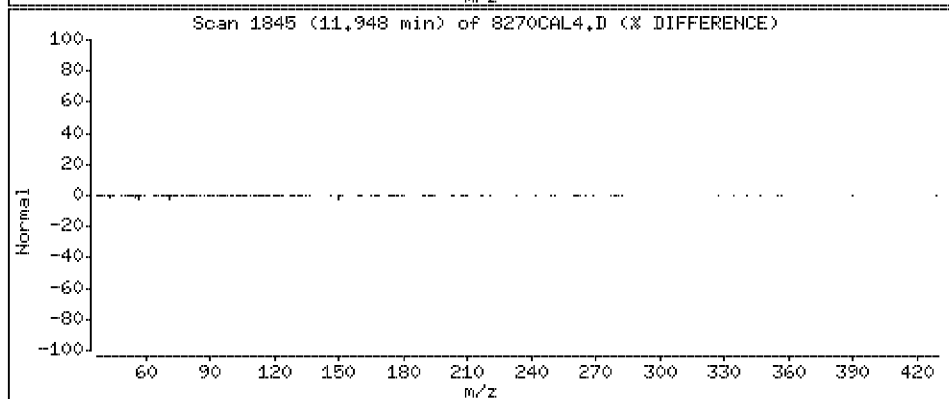
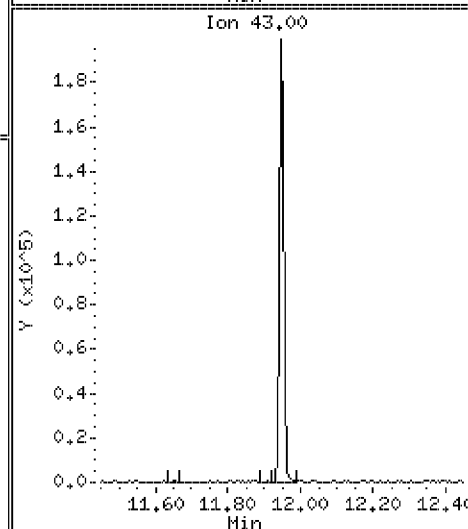
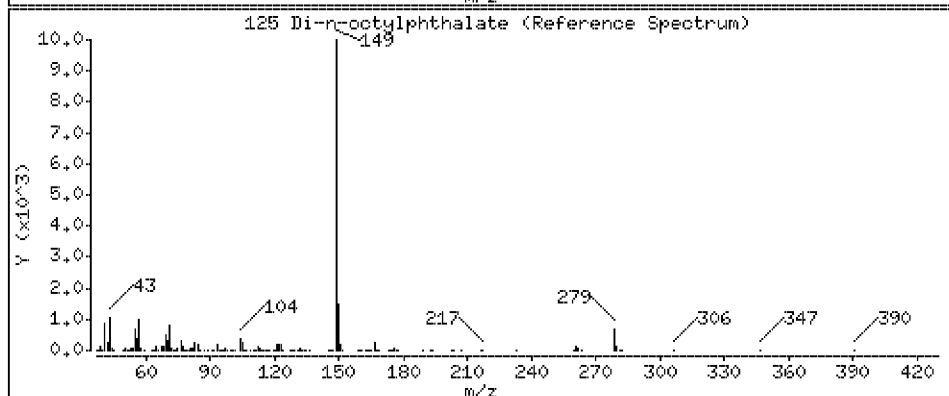
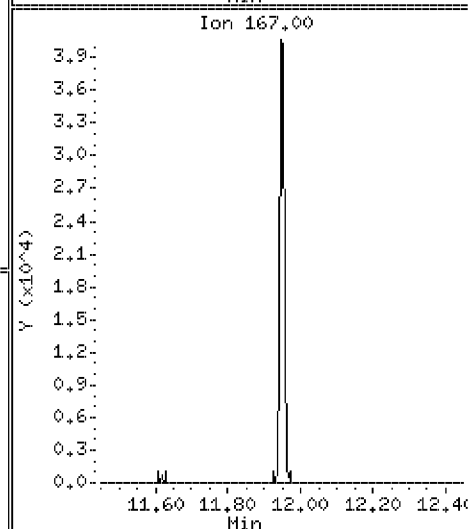
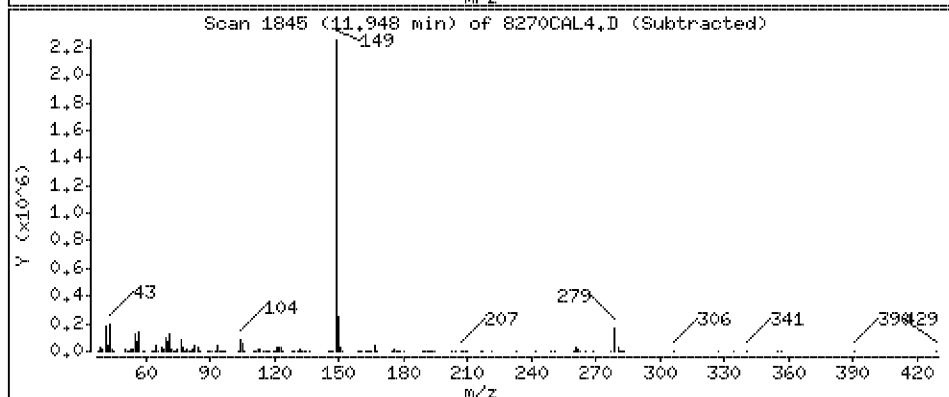
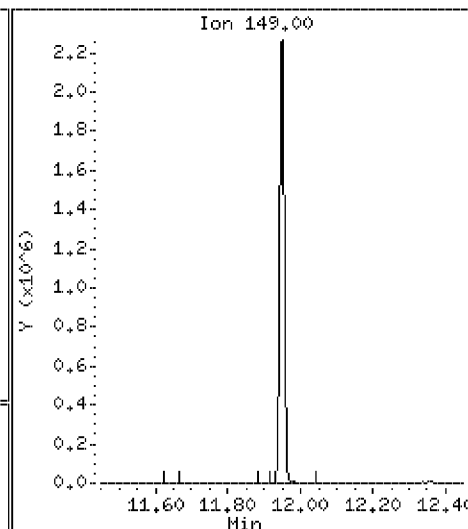
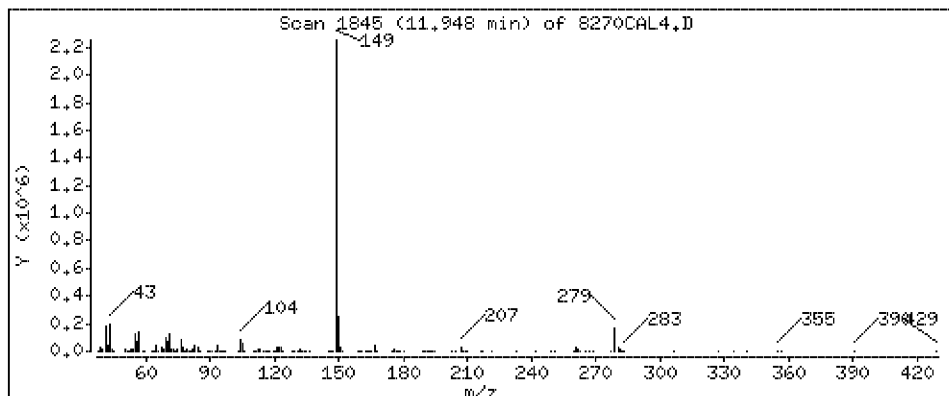
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

125 Di-n-octylphthalate

Concentration: 48.8 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

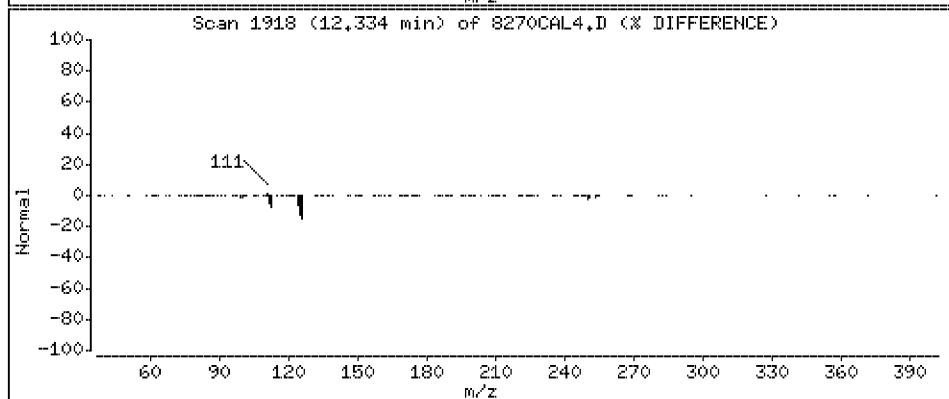
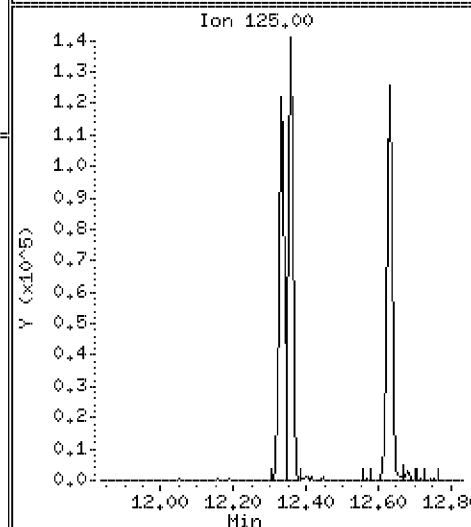
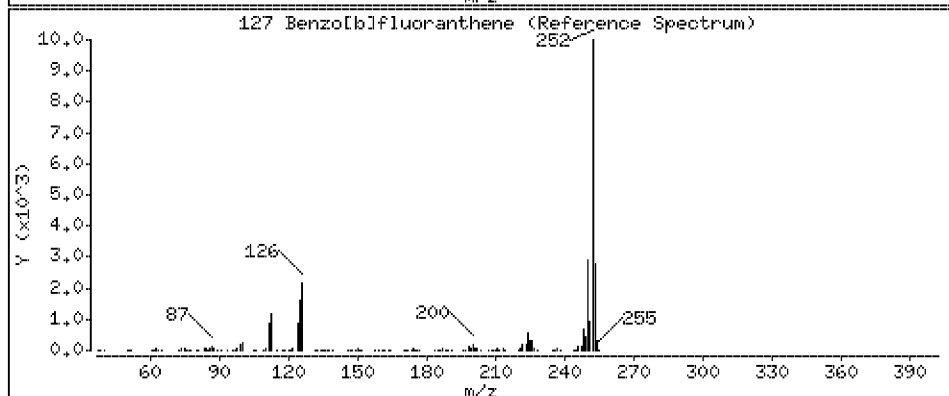
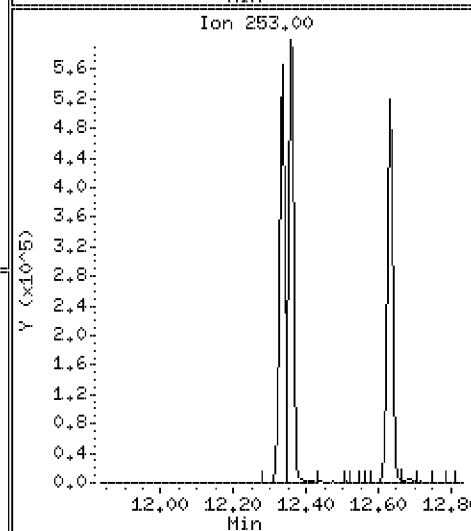
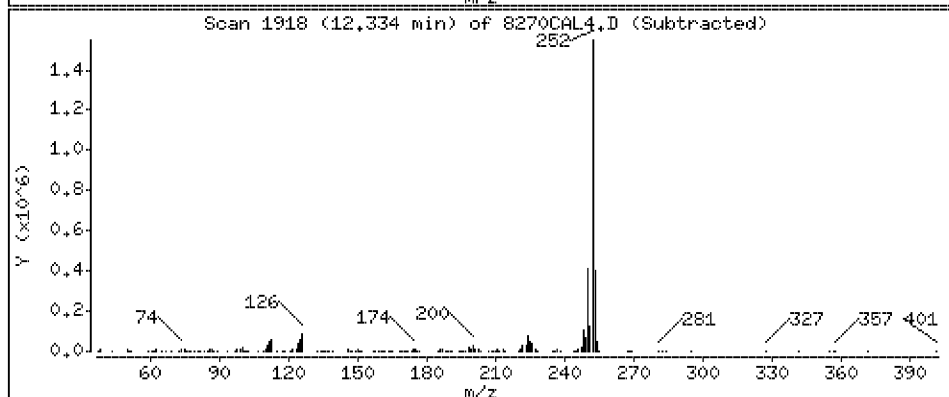
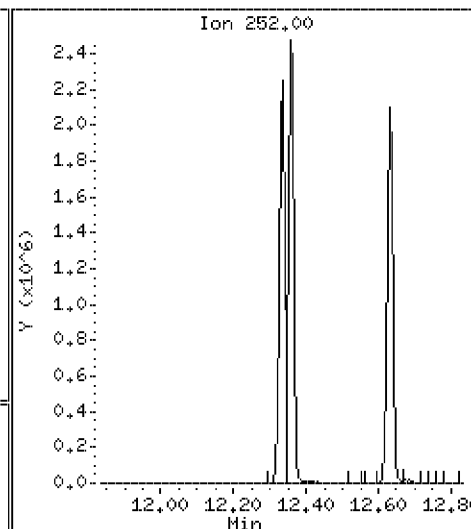
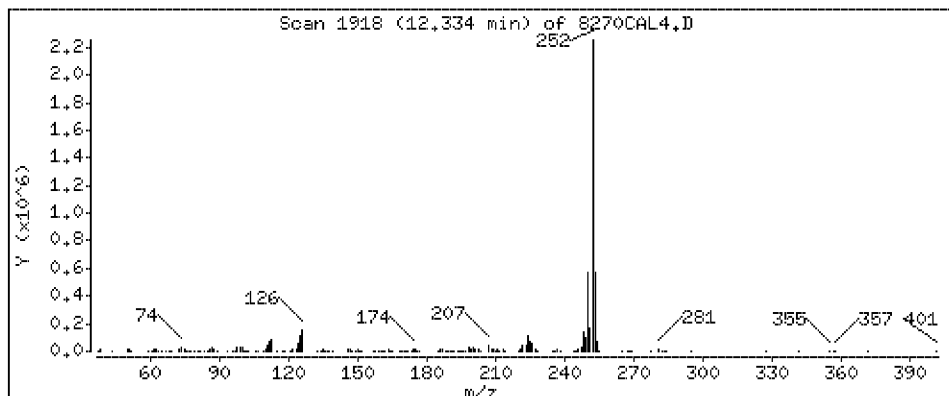
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

127 Benzo[b]fluoranthene

Concentration: 46.4 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

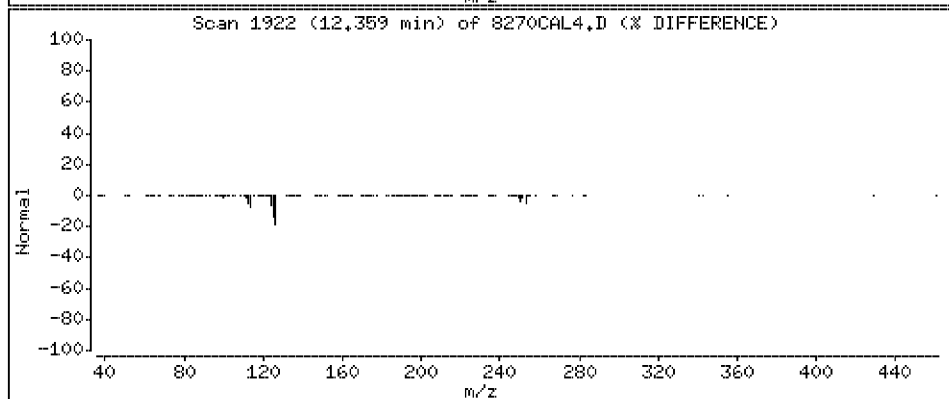
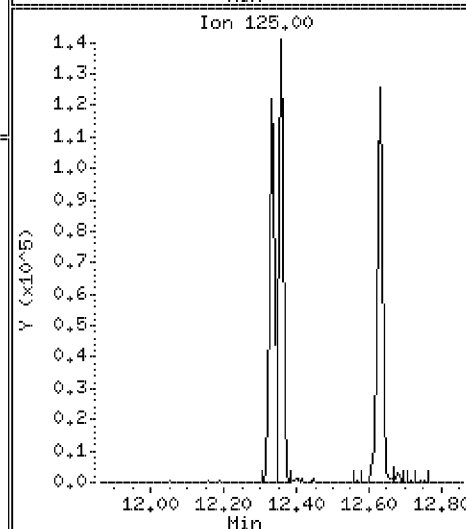
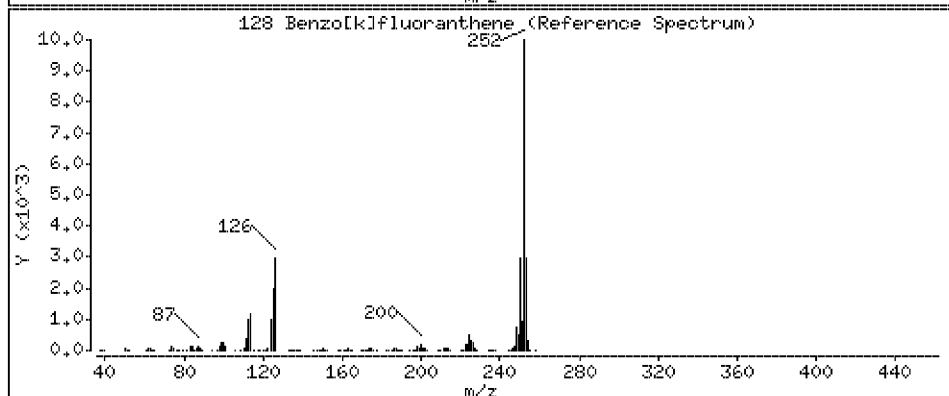
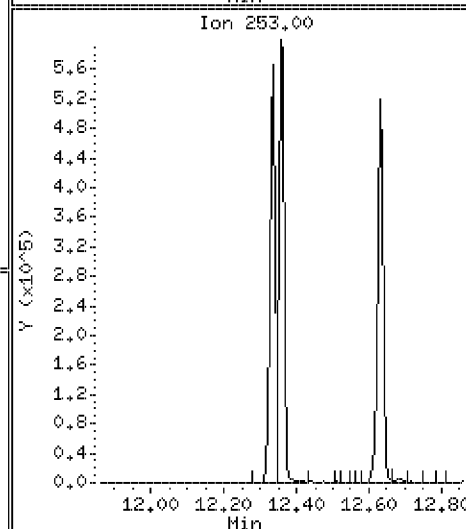
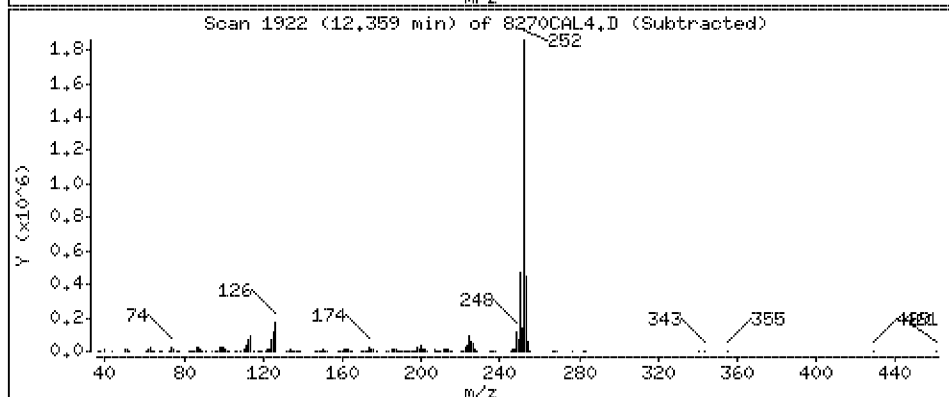
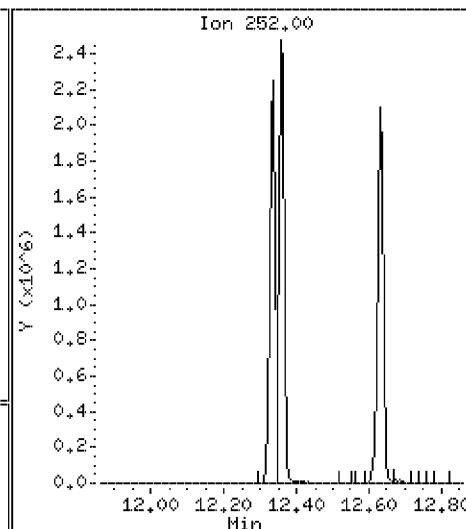
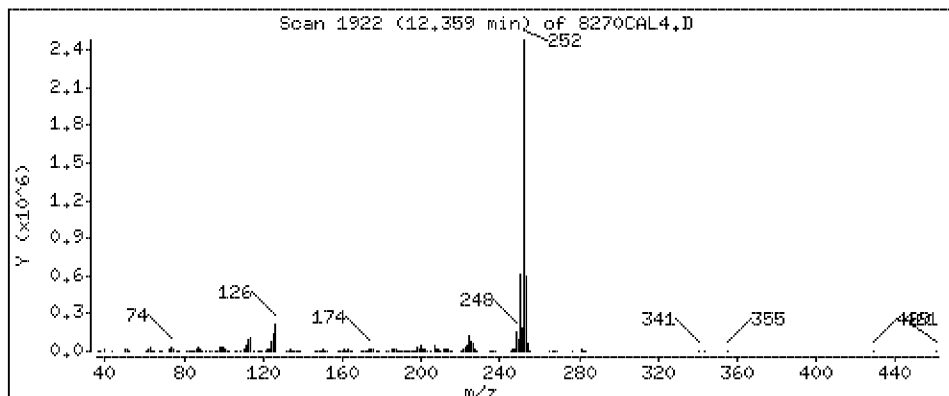
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

128 Benzo[k]fluoranthene

Concentration: 48.5 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

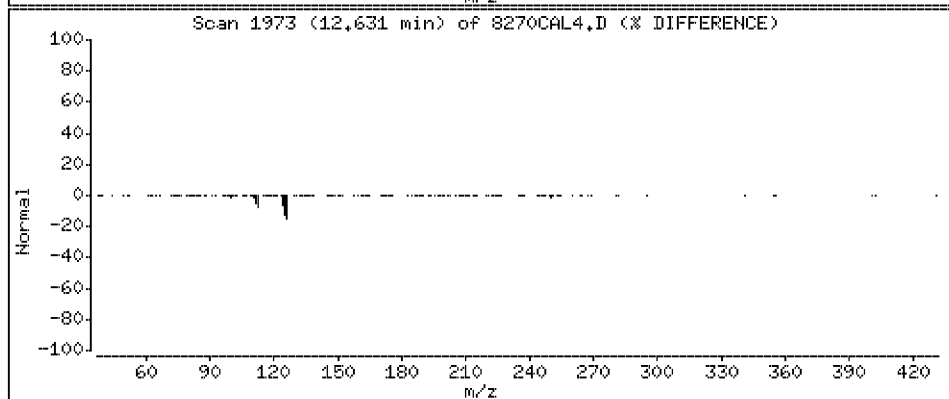
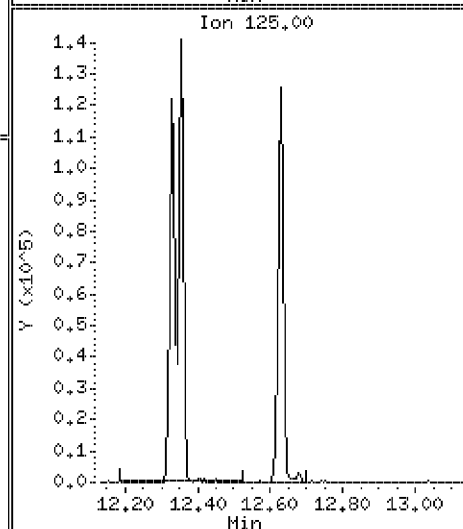
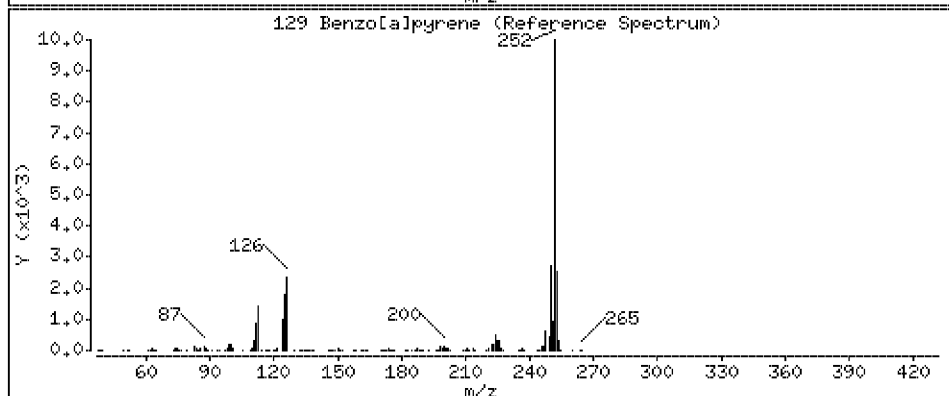
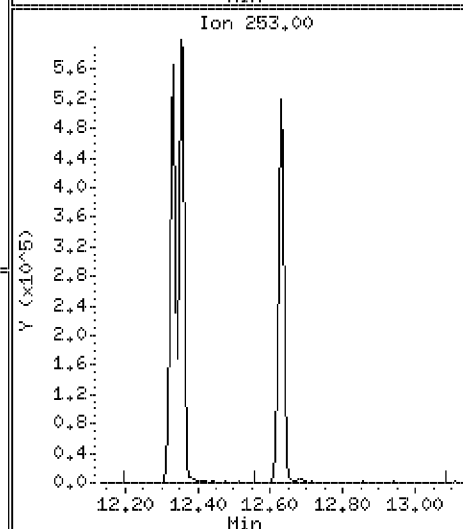
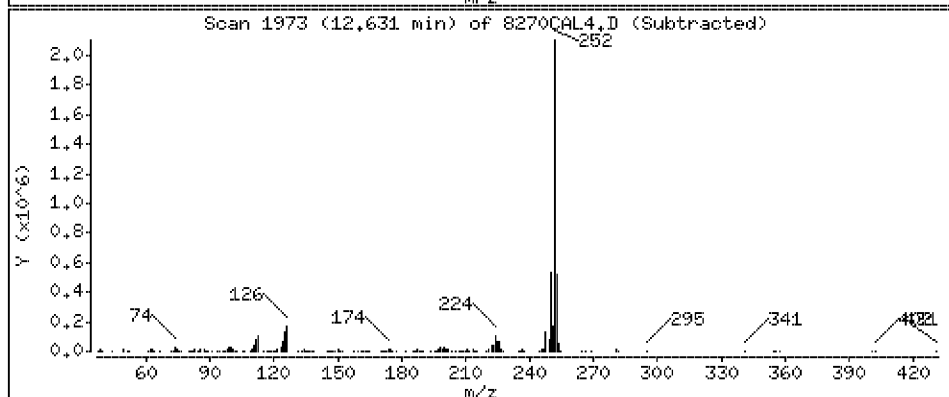
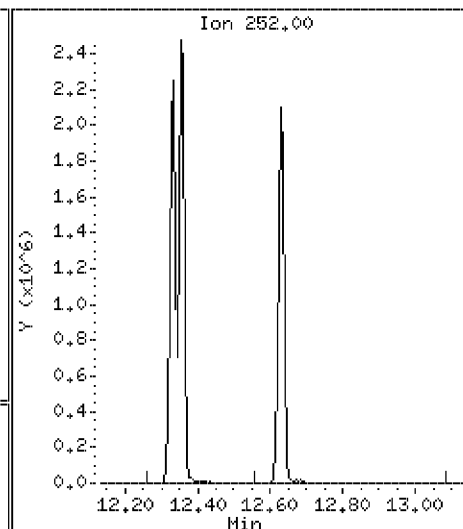
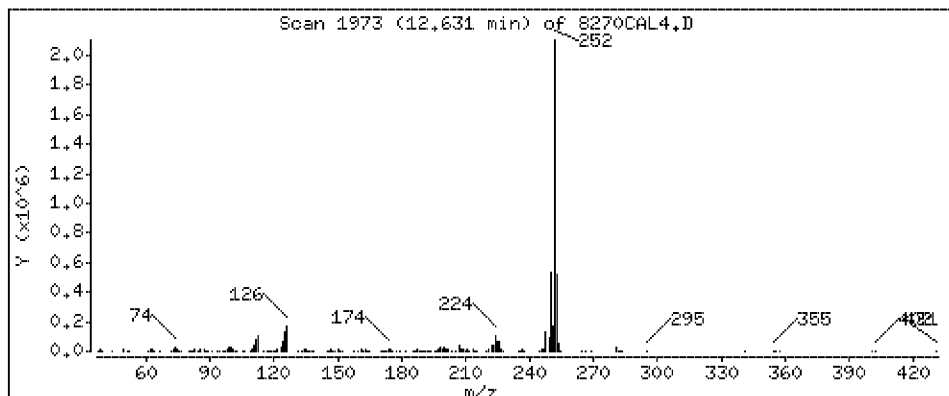
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

129 Benzo[ap]pyrene

Concentration: 47.2 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

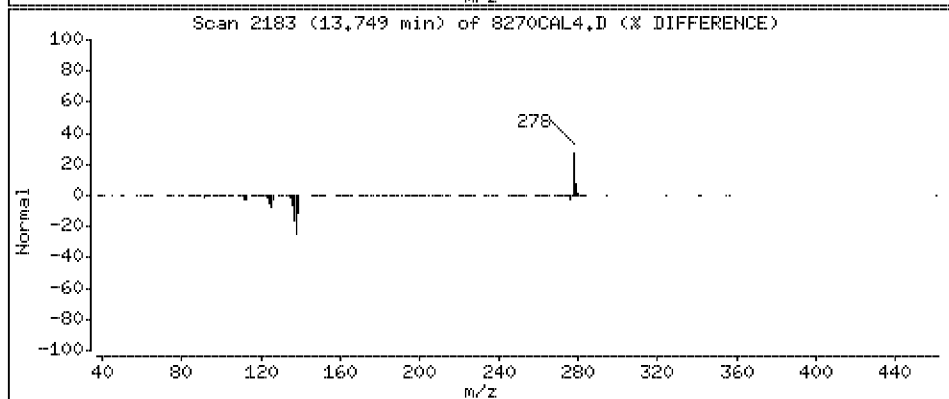
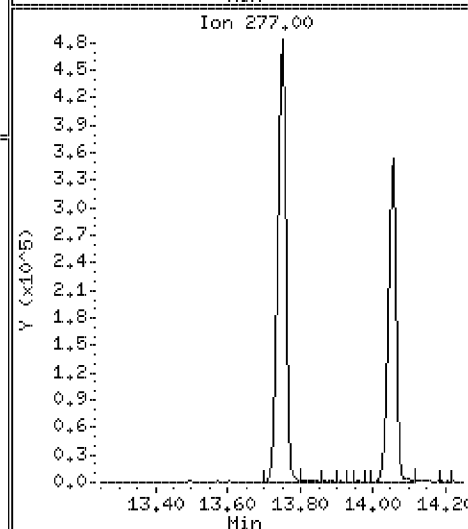
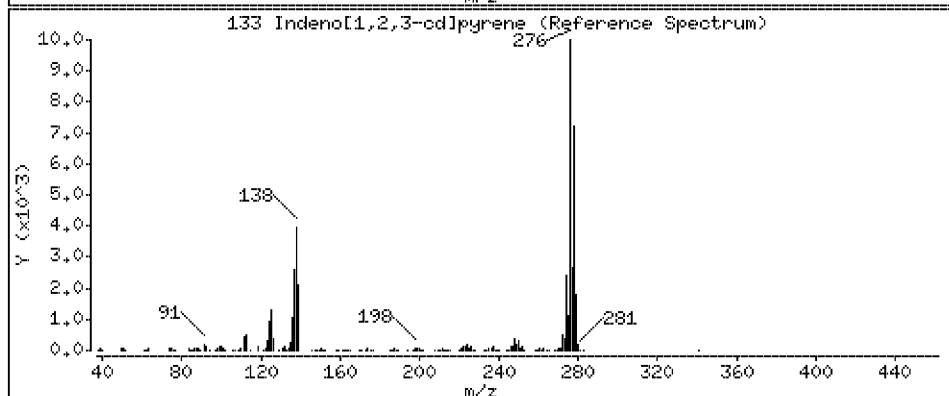
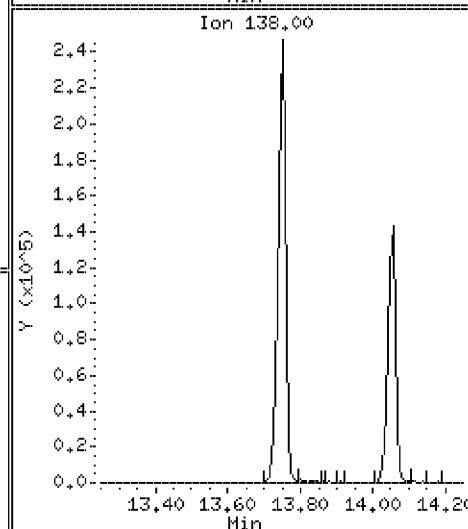
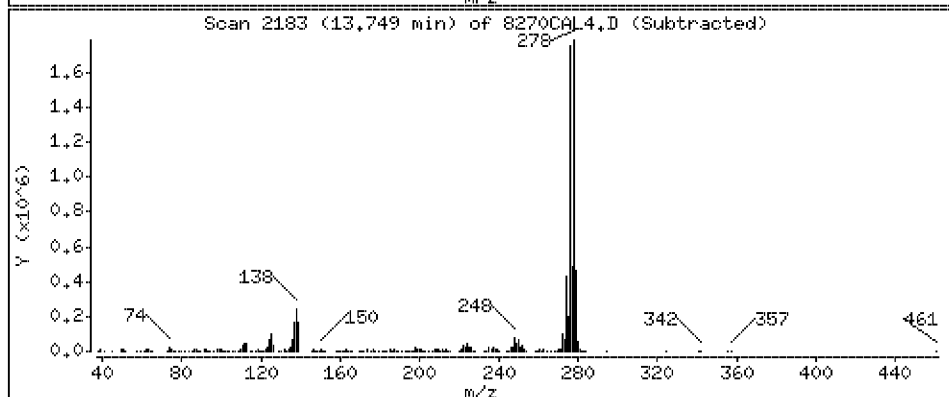
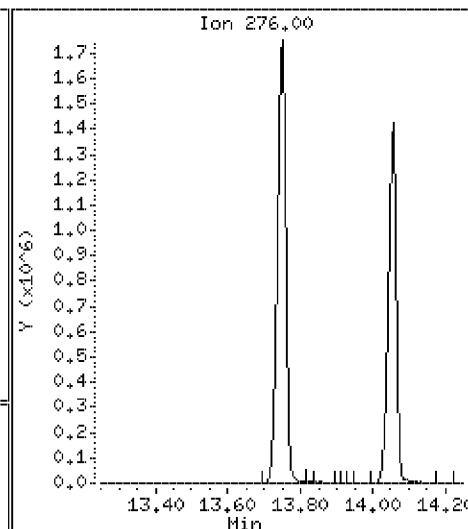
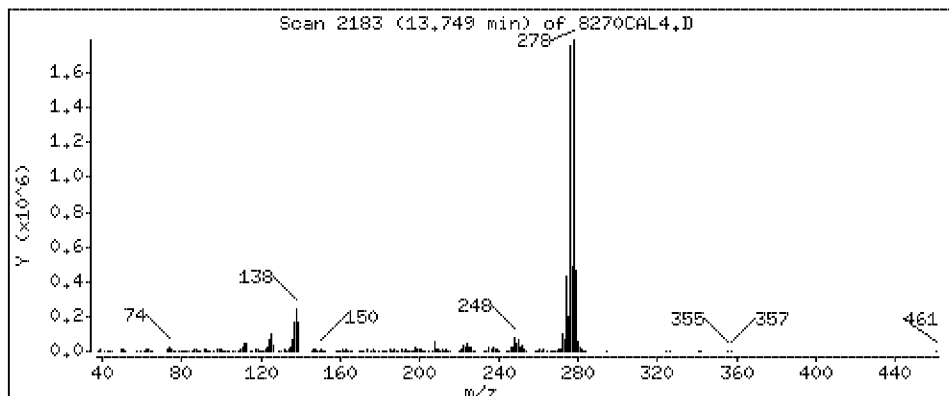
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

133 Indeno[1,2,3-cd]pyrene

Concentration: 46.8 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

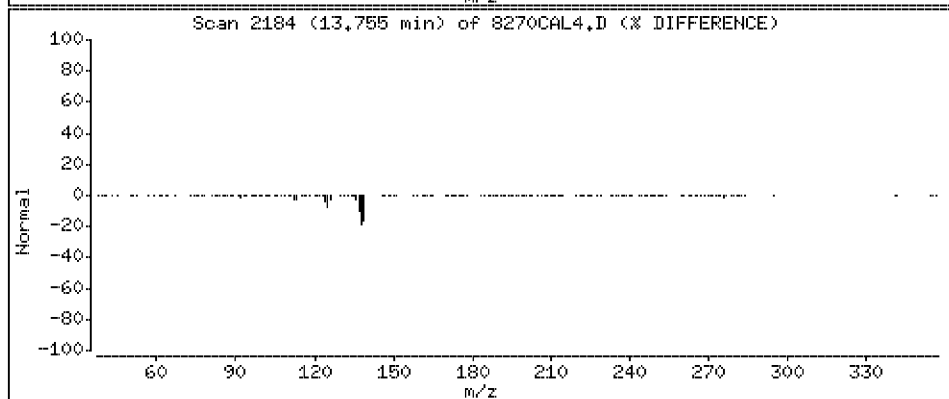
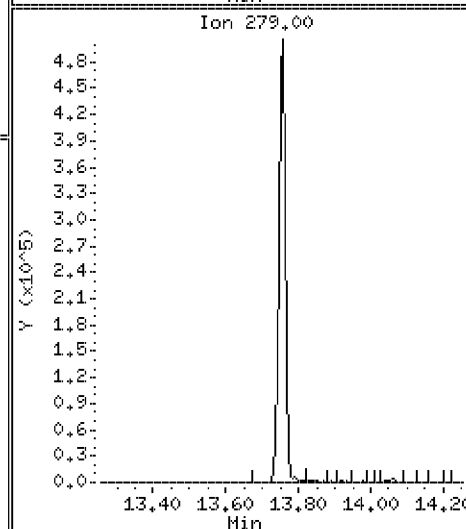
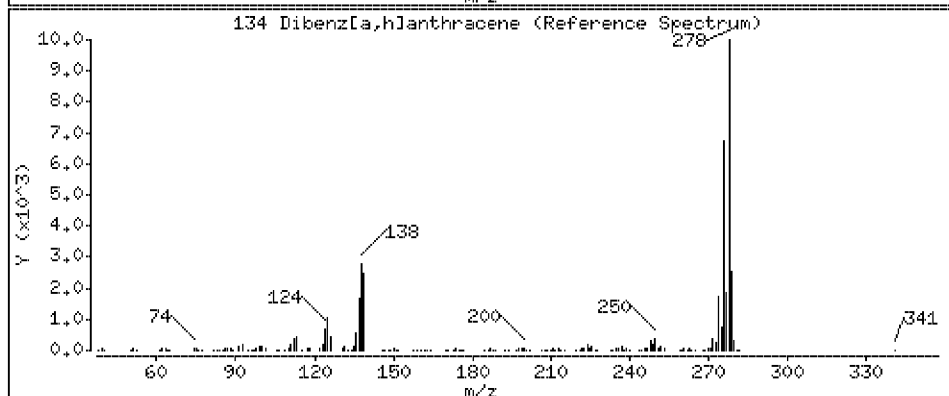
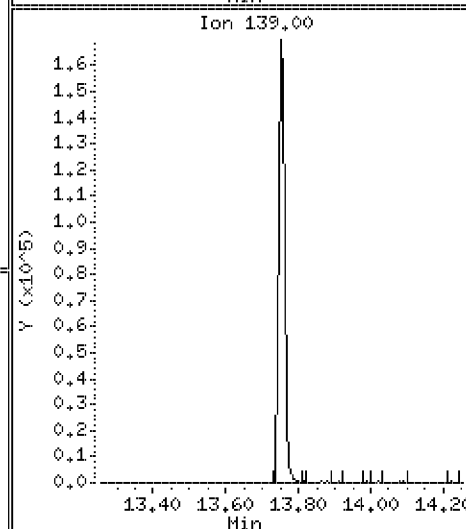
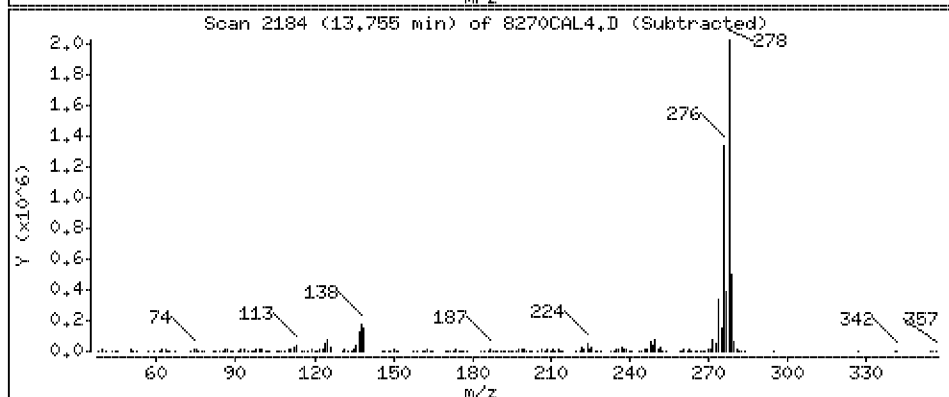
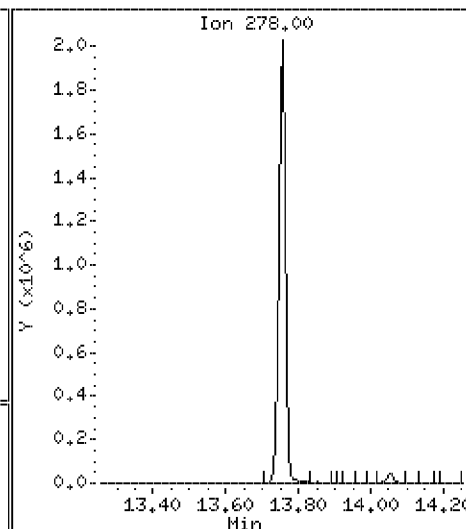
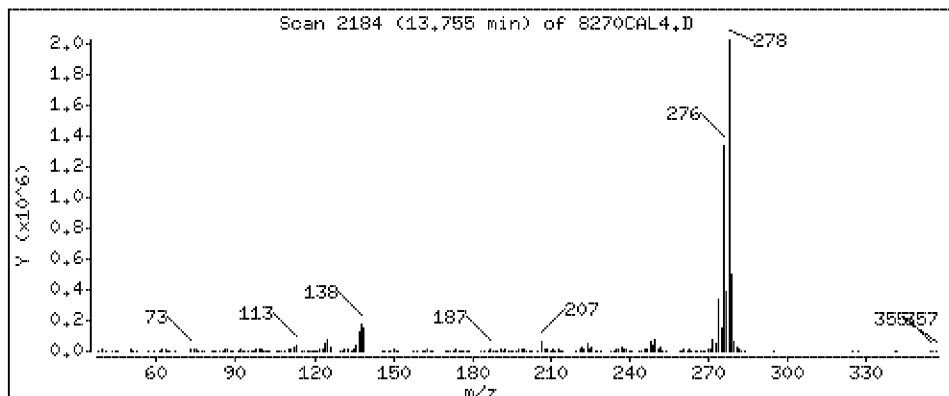
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

134 Dibenz[a,h]anthracene

Concentration: 47.4 ug/l



Date : 23-APR-2012 11:34

Client ID: 8270CAL4

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

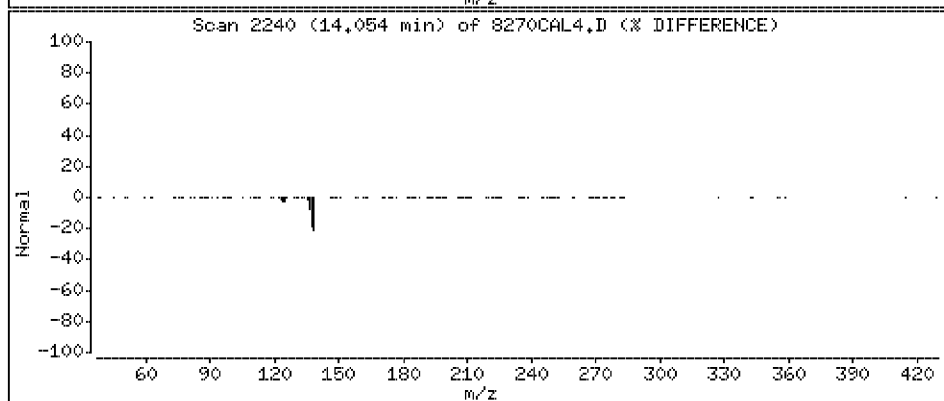
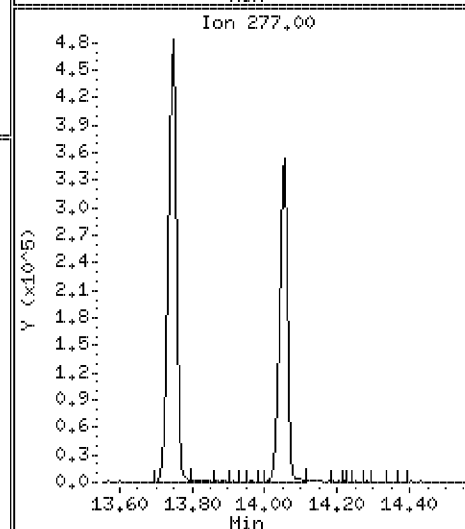
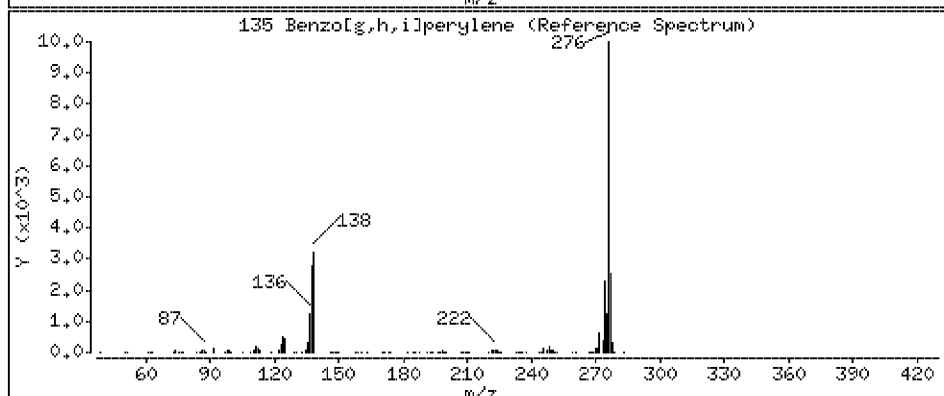
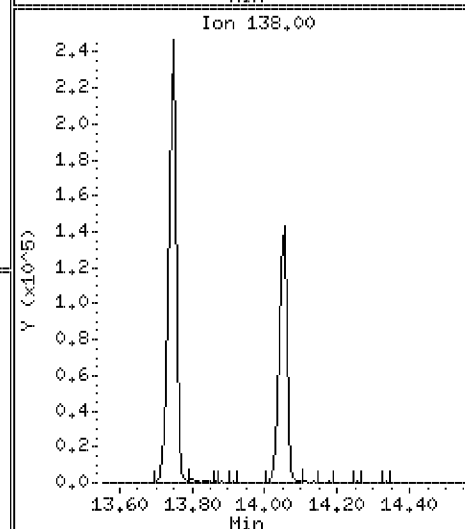
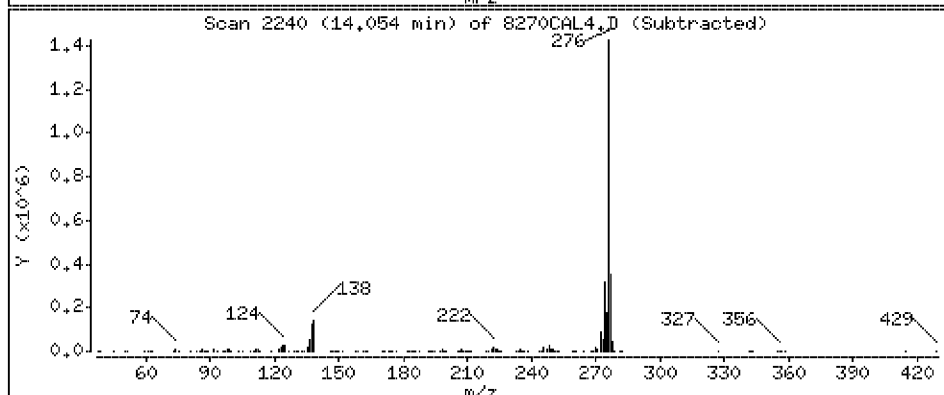
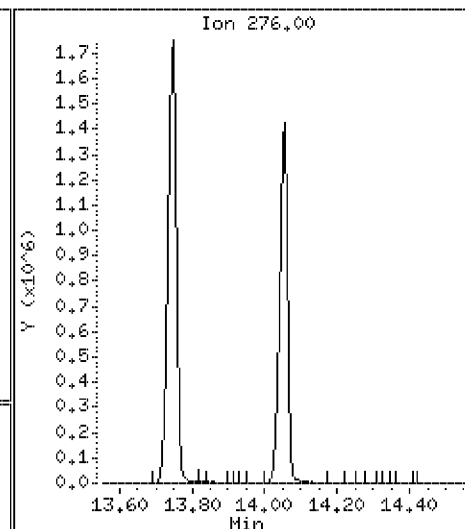
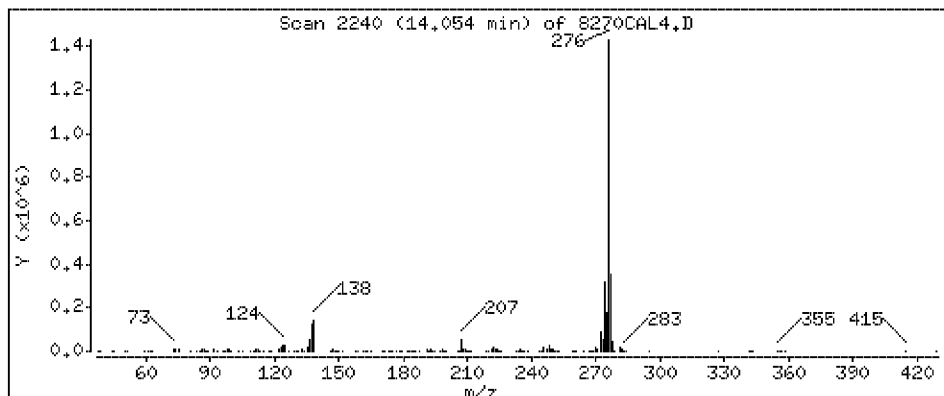
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

135 Benzo[g,h,i]perylene

Concentration: 46.5 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270CAL3.D
 Lab Smp Id: 45925 Client Smp ID: 8270CAL3
 Inj Date : 23-APR-2012 11:58 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 45925
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270bcs.m
 Meth Date : 25-Apr-2012 09:57 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 11:34 Cal File: 8270CAL4.D
 Als bottle: 5 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: 8270caln.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
2 Pyridine CAS #: 110-86-1									
2.387	2.381	(0.537)	79	252048	20.0000	20.3	80.00- 120.00	100.00	
2.387	2.381	(0.537)	52	92628			7.01- 67.01	36.75	
M 16 Cresols (Total) CAS #: 1319-77-3									
				407826	40.0000			(a)	
1 N-Nitrosodimethylamine CAS #: 62-75-9									
2.339	2.338	(0.526)	42	112465	20.0000	20.0	80.00- 120.00	100.00	
2.339	2.338	(0.526)	74	159051			112.35- 172.35	141.42	
2.339	2.338	(0.526)	44	6770			0.00- 34.21	6.02	
\$ 6 2-Fluorophenol (SURR) CAS #: 367-12-4									
3.384	3.383	(0.761)	112	384150	40.0000	40.2	80.00- 120.00	100.00	
3.384	3.383	(0.761)	64	237325			33.15- 93.15	61.78	
\$ 11 Phenol-d5 (SURR) CAS #: 4165-62-2									
4.138	4.139	(0.930)	99	501665	40.0000	39.1	80.00- 120.00	100.00	
4.137	4.139	(0.930)	42	96679			0.00- 48.89	19.27	
4.137	4.139	(0.930)	71	270959			23.76- 83.76	54.01	
13 Phenol CAS #: 108-95-2									
4.149	4.151	(0.933)	94	279057	20.0000	19.2	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	====	=====	=====	=====	=====	=====	
13 Phenol (continued)									
4.151	4.151	(0.933)	65	175591			31.39- 91.39	62.92	
4.162	4.151	(0.936)	66	317693			81.48- 141.48	113.85	

10 Aniline CAS #: 62-53-3									
4.165	4.166	(0.937)	93	315682	20.0000	20.5	80.00- 120.00	100.00	
4.151	4.166	(0.933)	65	175595			26.91- 86.91	55.62	
4.162	4.166	(0.936)	66	317696			73.34- 133.34	100.64	

14 Bis(2-Chloroethyl)ether CAS #: 111-44-4									
4.206	4.210	(0.946)	93	182422	20.0000	20.0	80.00- 120.00	100.00	
4.206	4.210	(0.946)	63	129161			42.30- 102.30	70.80	
4.207	4.210	(0.946)	95	58225			1.53- 61.53	31.92	

15 2-Chlorophenol CAS #: 95-57-8									
4.276	4.278	(0.962)	128	189955	20.0000	19.8	80.00- 120.00	100.00	
4.275	4.278	(0.961)	64	97419			20.72- 80.72	51.29	
4.277	4.278	(0.962)	130	62307			2.39- 62.39	32.80	

17 1,3-Dichlorobenzene CAS #: 541-73-1									
4.400	4.401	(0.989)	146	234898	20.0000	20.0	80.00- 120.00	100.00	
4.400	4.401	(0.989)	148	157480			36.16- 96.16	67.04	
4.399	4.401	(0.989)	111	104063			16.14- 76.14	44.30	

* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.447	4.448	(1.000)	152	330824	40.0000		80.00- 120.00	100.00	
4.446	4.448	(1.000)	115	202809			32.20- 92.20	61.30	
4.447	4.448	(1.000)	150	524522			139.77- 199.77	158.55	

19 1,4-Dichlorobenzene CAS #: 106-46-7									
4.461	4.462	(1.003)	146	242955	20.0000	19.6	80.00- 120.00	100.00	
4.461	4.462	(1.003)	148	162015			38.09- 98.09	66.69	
4.461	4.462	(1.003)	111	111147			14.50- 74.50	45.75	

21 Benzyl alcohol CAS #: 100-51-6									
4.564	4.567	(1.026)	108	124301	20.0000	19.0	80.00- 120.00	100.00	
4.564	4.567	(1.026)	79	226216			152.29- 212.29	181.99	
4.564	4.567	(1.026)	77	158628			97.26- 157.26	127.62	

20 1,2-Dichlorobenzene CAS #: 95-50-1									
4.599	4.599	(1.034)	146	224057	20.0000	19.9	80.00- 120.00	100.00	
4.599	4.599	(1.034)	148	147034			38.32- 98.32	65.62	
4.599	4.599	(1.034)	111	100539			18.14- 78.14	44.87	

22 2-Methylphenol CAS #: 95-48-7									
4.670	4.671	(1.050)	107	163924	20.0000	18.9	80.00- 120.00	100.00	
4.670	4.671	(1.050)	108	186365			82.43- 142.43	113.69	
4.671	4.671	(1.050)	79	145683			55.43- 115.43	88.87	

23 2,2'-oxybis(1-chloropropane) CAS #: 108-60-1									
4.674	4.675	(1.051)	45	124110	20.0000	19.4	80.00- 120.00	100.00	
4.671	4.675	(1.050)	77	166381			102.98- 162.98	134.06	
4.675	4.675	(1.051)	121	61241			24.22- 84.22	49.34	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
28 4-Methylphenol					CAS #: 106-44-5			
4.806	4.808	(1.081)	107	243902	20.0000	19.5	80.00- 120.00	100.00
4.806	4.808	(1.081)	108	192078			50.54- 110.54	78.75
4.806	4.808	(1.081)	79	79259			2.76- 62.76	32.50

26 N-Nitrosodipropylamine					CAS #: 621-64-7			
4.795	4.798	(1.078)	70	187833	20.0000	19.3	80.00- 120.00	100.00
4.795	4.798	(1.078)	42	70496			6.87- 66.87	37.53
4.796	4.798	(1.078)	130	36328			0.00- 49.23	19.34

30 Hexachloroethane					CAS #: 67-72-1			
4.901	4.902	(1.102)	117	95012	20.0000	19.4	80.00- 120.00	100.00
4.902	4.902	(1.102)	201	111949			90.07- 150.07	117.83
4.902	4.902	(1.102)	199	70107			43.69- 103.69	73.79

\$ 31 Nitrobenzene-d5 (SURR)					CAS #: 4165-60-0			
4.941	4.944	(0.881)	82	294283	20.0000	19.9	80.00- 120.00	100.00
4.942	4.944	(0.881)	128	95077			2.76- 62.76	32.31
4.941	4.944	(0.881)	54	113075			7.08- 67.08	38.42

32 Nitrobenzene					CAS #: 98-95-3			
4.958	4.962	(0.884)	77	289837	20.0000	19.8	80.00- 120.00	100.00
4.959	4.962	(0.884)	123	95260			4.18- 64.18	32.87
4.959	4.962	(0.884)	65	42526			0.00- 45.17	14.67

34 Isophorone					CAS #: 78-59-1			
5.172	5.176	(0.922)	82	347674	20.0000	19.8	80.00- 120.00	100.00
5.173	5.176	(0.922)	138	57175			0.00- 46.29	16.45
5.171	5.176	(0.922)	95	30258			0.00- 39.21	8.70

35 2-Nitrophenol					CAS #: 88-75-5			
5.252	5.253	(0.936)	139	108389	20.0000	20.0	80.00- 120.00	100.00
5.251	5.253	(0.936)	65	76964			43.34- 103.34	71.01
5.251	5.253	(0.936)	109	54276			20.91- 80.91	50.08

36 2,4-Dimethylphenol					CAS #: 105-67-9			
5.292	5.294	(0.944)	122	163843	20.0000	19.7	80.00- 120.00	100.00
5.291	5.294	(0.943)	107	229289			111.45- 171.45	139.94
5.291	5.294	(0.943)	121	97909			28.89- 88.89	59.76

38 Bis(2-Chloroethoxy)methane					CAS #: 111-91-1			
5.367	5.369	(0.957)	93	237879	20.0000	19.7	80.00- 120.00	100.00
5.367	5.369	(0.957)	95	76409			3.06- 63.06	32.12
5.368	5.369	(0.957)	123	32516			0.00- 44.40	13.67

40 Benzoic Acid					CAS #: 65-85-0			
5.378	5.404	(0.959)	122	98639	20.0000	19.8	80.00- 120.00	100.00(H)
5.377	5.404	(0.959)	105	134386			107.67- 167.67	136.24
5.377	5.404	(0.959)	77	131831			104.37- 164.37	133.65

41 2,4-Dichlorophenol					CAS #: 120-83-2			
5.488	5.490	(0.979)	162	192036	20.0000	19.6	80.00- 120.00	100.00
5.489	5.490	(0.979)	164	126206			36.50- 96.50	65.72

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	=====	=====	=====	=====	=====	=====	=====
41 2,4-Dichlorophenol (continued)									
5.488	5.490	(0.979)	98	65635			5.73- 65.73	34.18	

42 1,2,4-Trichlorobenzene CAS #: 120-82-1									
5.553	5.555	(0.990)	180	235702	20.0000	19.2	80.00- 120.00	100.00	
5.553	5.555	(0.990)	182	231397			67.47- 127.47	98.17	
5.553	5.555	(0.990)	145	67534			0.00- 58.13	28.65	

* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.608	5.610	(1.000)	136	1097651	40.0000		80.00- 120.00	100.00	
5.608	5.610	(1.000)	68	63536			0.00- 35.51	5.79	

44 Naphthalene CAS #: 91-20-3									
5.628	5.630	(1.004)	128	564017	20.0000	20.0	80.00- 120.00	100.00	
5.628	5.630	(1.003)	129	65856			0.00- 41.28	11.68	
5.628	5.630	(1.003)	127	76455			0.00- 43.27	13.56	

45 4-Chloroaniline CAS #: 106-47-8									
5.679	5.681	(1.013)	127	234770	20.0000	19.8	80.00- 120.00	100.00	
5.679	5.681	(1.013)	129	73668			2.39- 62.39	31.38	
5.678	5.681	(1.013)	65	98191			11.54- 71.54	41.82	

48 Hexachlorobutadiene CAS #: 87-68-3									
5.745	5.746	(1.024)	225	186480	20.0000	19.9	80.00- 120.00	100.00	
5.745	5.746	(1.024)	223	112429			32.02- 92.02	60.29	
5.745	5.746	(1.024)	227	123301			34.54- 94.54	66.12	

51 4-Chloro-3-methylphenol CAS #: 59-50-7									
6.159	6.158	(1.098)	107	187775	20.0000	19.9	80.00- 120.00	100.00	
6.159	6.158	(1.098)	144	44892			0.00- 55.95	23.91	
6.159	6.158	(1.098)	142	137846			44.47- 104.47	73.41	

53 2-Methylnaphthalene CAS #: 91-57-6									
6.287	6.289	(1.121)	142	399817	20.0000	19.5	80.00- 120.00	100.00	
6.287	6.289	(1.121)	141	347464			58.08- 118.08	86.91	

54 1-Methylnaphthalene CAS #: 90-12-0									
6.384	6.385	(1.138)	142	370212	20.0000	19.9	80.00- 120.00	100.00	
6.384	6.385	(1.138)	141	325243			61.72- 121.72	87.85	

55 Hexachlorocyclopentadiene CAS #: 77-47-4									
6.443	6.445	(0.882)	237	229992	20.0000	19.8	80.00- 120.00	100.00	
6.443	6.445	(0.882)	235	140845			33.37- 93.37	61.24	
6.443	6.445	(0.882)	272	31414			0.00- 43.74	13.66	

57 2,4,6-Trichlorophenol CAS #: 88-06-2									
6.621	6.620	(0.906)	196	179086	20.0000	19.5	80.00- 120.00	100.00	
6.621	6.620	(0.906)	198	177960			67.07- 127.07	99.37	
6.621	6.620	(0.906)	200	56456			1.30- 61.30	31.52	

58 2,4,5-Trichlorophenol CAS #: 95-95-4									
6.569	6.570	(0.899)	196	166947	20.0000	19.7	80.00- 120.00	100.00	
6.569	6.570	(0.899)	198	163108			69.46- 129.46	97.70	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
58 2,4,5-Trichlorophenol (continued)									
6.568	6.570	(0.899)	97	104746			34.72- 94.72	62.74	

\$ 59 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.642	6.644	(0.909)	172	565661	20.0000	19.8	80.00- 120.00	100.00	
6.642	6.644	(0.909)	171	201237			5.03- 65.03	35.58	

62 2-Chloronaphthalene CAS #: 91-58-7									
6.760	6.763	(0.925)	162	430787	20.0000	19.9	80.00- 120.00	100.00	
6.760	6.763	(0.925)	164	143250			4.20- 64.20	33.25	
6.759	6.763	(0.925)	127	163219			7.85- 67.85	37.89	

63 2-Nitroaniline CAS #: 88-74-4									
6.865	6.869	(0.940)	65	149999	20.0000	20.1	80.00- 120.00	100.00	
6.865	6.869	(0.940)	92	90426			30.25- 90.25	60.28	
6.866	6.869	(0.940)	138	122637			52.43- 112.43	81.76	

65 Dimethylphthalate CAS #: 131-11-3									
7.035	7.040	(0.963)	163	507937	20.0000	20.4	80.00- 120.00	100.00	
7.036	7.040	(0.963)	194	27737			0.00- 35.55	5.46	
7.035	7.040	(0.963)	164	52297			0.00- 40.55	10.30	

68 Acenaphthylene CAS #: 208-96-8									
7.164	7.167	(0.981)	152	647847	20.0000	20.3	80.00- 120.00	100.00	
7.164	7.167	(0.981)	151	127691			0.00- 50.50	19.71	
7.164	7.167	(0.981)	153	84919			0.00- 43.76	13.11	

67 2,6-Dinitrotoluene CAS #: 606-20-2									
7.097	7.100	(0.972)	165	110771	20.0000	19.7	80.00- 120.00	100.00	
7.096	7.100	(0.971)	89	86933			49.02- 109.02	78.48	
7.096	7.100	(0.971)	63	83264			44.86- 104.86	75.17	

69 3-Nitroaniline CAS #: 99-09-2									
7.267	7.271	(0.995)	138	101770	20.0000	20.4	80.00- 120.00	100.00	
7.268	7.271	(0.995)	108	10796			0.00- 41.32	10.61	
7.267	7.271	(0.995)	92	134189			100.05- 160.05	131.86	

* 70 Acenaphthene-d10 CAS #: 15067-26-2									
7.305	7.305	(1.000)	164	737285	40.0000		80.00- 120.00	100.00	
7.305	7.305	(1.000)	162	717444			64.73- 124.73	97.31	
7.304	7.305	(1.000)	160	320070			12.46- 72.46	43.41	

71 Acenaphthene CAS #: 83-32-9									
7.335	7.338	(1.004)	154	381421	20.0000	19.7	80.00- 120.00	100.00	
7.335	7.338	(1.004)	153	416584			78.46- 138.46	109.22	
7.335	7.338	(1.004)	152	203230			23.44- 83.44	53.28	

72 2,4-Dinitrophenol CAS #: 51-28-5									
7.366	7.369	(1.008)	184	52313	20.0000	19.1	80.00- 120.00	100.00	
7.365	7.369	(1.008)	63	43539			48.07- 108.07	83.23	
7.366	7.369	(1.008)	154	36221			39.61- 99.61	69.24	

74 4-Nitrophenol CAS #: 100-02-7									
7.478	7.476	(1.024)	109	112095	20.0000	20.7	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
74 4-Nitrophenol (continued)									
7.478	7.476	(1.024)	139	56714			26.63-	86.63	50.59
7.478	7.476	(1.024)	65	125226			81.59-	141.59	111.71

75 Dibenzofuran CAS #: 132-64-9									
7.503	7.506	(1.027)	168	620319	20.0000	19.7	80.00-	120.00	100.00
7.503	7.506	(1.027)	139	273996			12.75-	72.75	44.17

76 2,4-Dinitrotoluene CAS #: 121-14-2									
7.490	7.494	(1.025)	165	151592	20.0000	19.3	80.00-	120.00	100.00
7.489	7.494	(1.025)	63	171267			82.10-	142.10	112.98
7.489	7.494	(1.025)	89	156676			72.08-	132.08	103.35

80 Diethylphthalate CAS #: 84-66-2									
7.725	7.729	(1.058)	149	452067	20.0000	19.7	80.00-	120.00	100.00
7.725	7.729	(1.058)	177	104019			0.00-	53.36	23.01
7.724	7.729	(1.057)	150	57362			0.00-	42.43	12.69

81 Fluorene CAS #: 86-73-7									
7.838	7.841	(1.073)	166	519901	20.0000	19.0	80.00-	120.00	100.00
7.838	7.841	(1.073)	165	500340			65.55-	125.55	96.24
7.838	7.841	(1.073)	167	73112			0.00-	44.15	14.06

82 4-Chlorophenyl-phenylether CAS #: 7005-72-3									
7.836	7.838	(1.073)	204	302999	20.0000	18.5	80.00-	120.00	100.00
7.836	7.838	(1.073)	206	107399			4.27-	64.27	35.45
7.835	7.838	(1.073)	141	172506			24.97-	84.97	56.93

84 4-Nitroaniline CAS #: 100-01-6									
7.867	7.874	(1.077)	138	79568	20.0000	18.4	80.00-	120.00	100.00
7.867	7.874	(1.077)	92	49185			38.02-	98.02	61.82
7.867	7.874	(1.077)	108	117028			124.92-	184.92	147.08

85 4,6-Dinitro-2-methylphenol CAS #: 534-52-1									
7.890	7.896	(0.901)	198	94845	20.0000	18.8	80.00-	120.00	100.00
7.888	7.896	(0.901)	51	37292			6.77-	66.77	39.32
7.889	7.896	(0.901)	105	37667			8.50-	68.50	39.71

86 N-Nitrosodiphenylamine CAS #: 86-30-6									
7.953	7.956	(0.908)	169	333827	20.0000	19.8	80.00-	120.00	100.00
7.953	7.956	(0.908)	168	219871			36.61-	96.61	65.86
7.953	7.956	(0.908)	167	115318			4.62-	64.62	34.54

87 1,2-Diphenylhydrazine CAS #: 122-66-7									
7.991	7.992	(1.094)	77	538798	20.0000	20.4	80.00-	120.00	100.00
7.991	7.992	(1.094)	105	68688			0.00-	43.34	12.75
7.992	7.992	(1.094)	182	137619			0.00-	56.11	25.54

88 2,4,6-Tribromophenol (SURR) CAS #: 118-79-6									
8.080	8.083	(1.106)	330	201055	40.0000	39.0	80.00-	120.00	100.00
8.080	8.083	(1.106)	332	194063			66.43-	126.43	96.52
8.078	8.083	(1.106)	141	78016			9.24-	69.24	38.80

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	=====	=====	=====	=====	=====	=====	=====
93 4-Bromophenylphenylether						CAS #: 101-55-3			
8.315	8.318	(0.949)	248	188707	20.0000	19.3	80.00- 120.00	100.00	
8.315	8.318	(0.949)	250	182352			67.36- 127.36	96.63	
8.314	8.318	(0.949)	141	124722			35.77- 95.77	66.09	

94 Hexachlorobenzene						CAS #: 118-74-1			
8.382	8.387	(0.957)	284	210587	20.0000	18.8	80.00- 120.00	100.00	
8.381	8.387	(0.957)	142	69253			2.39- 62.39	32.89	
8.383	8.387	(0.957)	249	66589			0.06- 60.06	31.62	

96 Pentachlorophenol						CAS #: 87-86-5			
8.582	8.585	(0.980)	266	122087	20.0000	18.5	80.00- 120.00	100.00	
8.583	8.585	(0.980)	264	74576			33.70- 93.70	61.08	
8.582	8.585	(0.980)	268	78436			35.26- 95.26	64.25	

* 100 Phenanthrene-d10						CAS #: 1517-22-2			
8.759	8.761	(1.000)	188	1335991	40.0000		80.00- 120.00	100.00	
8.759	8.761	(1.000)	94	83163			0.00- 36.35	6.22	
8.759	8.761	(1.000)	80	98267			0.00- 37.82	7.36	

101 Phenanthrene						CAS #: 85-01-8			
8.782	8.785	(1.003)	178	680928	20.0000	19.8	80.00- 120.00	100.00	
8.781	8.785	(1.003)	179	106685			0.00- 46.33	15.67	
8.782	8.785	(1.003)	176	133399			0.00- 50.11	19.59	

103 Anthracene						CAS #: 120-12-7			
8.831	8.835	(1.008)	178	683801	20.0000	19.9	80.00- 120.00	100.00	
8.831	8.835	(1.008)	179	106675			0.00- 45.97	15.60	
8.831	8.835	(1.008)	176	131008			0.00- 49.80	19.16	

104 Carbazole						CAS #: 86-74-8			
8.993	8.996	(1.027)	167	574636	20.0000	20.1	80.00- 120.00	100.00	
8.992	8.996	(1.027)	139	81024			0.00- 43.89	14.10	
8.993	8.996	(1.027)	83	35170			0.00- 36.17	6.12	

105 Di-n-butylphthalate						CAS #: 84-74-2			
9.324	9.327	(1.064)	149	733951	20.0000	20.4	80.00- 120.00	100.00	
9.324	9.327	(1.064)	150	67770			0.00- 40.04	9.23	
9.323	9.327	(1.064)	104	54081			0.00- 37.79	7.37	

109 Fluoranthene						CAS #: 206-44-0			
9.949	9.953	(1.136)	202	804313	20.0000	20.4	80.00- 120.00	100.00	
9.947	9.953	(1.136)	101	50099			0.00- 36.69	6.23	
9.949	9.953	(1.136)	203	143367			0.00- 48.82	17.82	

111 Pyrene						CAS #: 129-00-0			
10.172	10.176	(0.896)	202	858467	20.0000	22.1	80.00- 120.00	100.00	
10.172	10.176	(0.896)	200	180896			0.00- 51.88	21.07	
10.172	10.176	(0.896)	203	154676			0.00- 49.33	18.02	

\$ 112 Terphenyl-d14 (SURR)						CAS #: 1718-51-0			
10.319	10.322	(0.909)	244	802882	20.0000	21.8	80.00- 120.00	100.00	
10.318	10.322	(0.909)	122	52321			0.00- 36.72	6.52	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 112 Terphenyl-d14 (SURR) (continued)									
10.319	10.322	(0.909)	212	62098			0.00- 38.06	7.73	

118 Butylbenzylphthalate					CAS #: 85-68-7				
10.795	10.798	(0.951)	149	347299	20.0000	20.6	80.00- 120.00	100.00	
10.794	10.798	(0.951)	91	281379			51.57- 111.57	81.02	
10.795	10.798	(0.951)	206	89997			0.00- 55.14	25.91	

120 Benzo[a]anthracene					CAS #: 56-55-3				
11.345	11.348	(0.999)	228	1039370	20.0000	21.2	80.00- 120.00	100.00	
11.345	11.348	(0.999)	229	207770			0.00- 51.57	19.99	
11.345	11.348	(0.999)	226	285010			0.00- 58.54	27.42	

* 121 Chrysene-d12					CAS #: 1719-03-5				
11.356	11.359	(1.000)	240	1956550	40.0000		80.00- 120.00	100.00	
11.355	11.359	(1.000)	120	115822			0.00- 36.38	5.92	
11.356	11.359	(1.000)	236	523119			0.00- 57.06	26.74	

123 Chrysene					CAS #: 218-01-9				
11.380	11.384	(1.002)	228	957046	20.0000	22.2	80.00- 120.00	100.00	
11.380	11.384	(1.002)	226	282056			1.12- 61.12	29.47	
11.380	11.384	(1.002)	229	190096			0.00- 51.74	19.86	

124 Bis-2-Ethylhexylphthalate					CAS #: 117-81-7				
11.348	11.350	(0.999)	149	596210	20.0000	20.5	80.00- 120.00	100.00	
11.348	11.350	(0.999)	167	176172			2.07- 62.07	29.55	
11.350	11.350	(0.999)	279	54251			0.00- 39.24	9.10	

125 Di-n-octylphthalate					CAS #: 117-84-0				
11.946	11.948	(0.942)	149	833193	20.0000	20.3	80.00- 120.00	100.00	
11.946	11.948	(0.942)	167	13921			0.00- 31.74	1.67	
11.945	11.948	(0.942)	43	66756			0.00- 38.21	8.01	

127 Benzo[b]fluoranthene					CAS #: 205-99-2				
12.330	12.333	(0.972)	252	1022887	20.0000	20.2	80.00- 120.00	100.00	
12.330	12.333	(0.972)	253	233718			0.00- 54.02	22.85	
12.329	12.333	(0.972)	125	46734			0.00- 34.93	4.57	

128 Benzo[k]fluoranthene					CAS #: 207-08-9				
12.355	12.359	(0.974)	252	1031341	20.0000	20.3	80.00- 120.00	100.00	
12.355	12.359	(0.974)	253	235695			0.00- 53.57	22.85	
12.354	12.359	(0.974)	125	50640			0.00- 35.26	4.91	

129 Benzo[a]pyrene					CAS #: 50-32-8				
12.627	12.630	(0.996)	252	1009357	20.0000	20.4	80.00- 120.00	100.00	
12.627	12.630	(0.996)	253	218312			0.00- 54.04	21.63	
12.626	12.630	(0.996)	125	55134			0.00- 35.52	5.46	

* 130 Perylene-d12					CAS #: 1520-96-3				
12.682	12.682	(1.000)	264	1902117	40.0000		80.00- 120.00	100.00	
12.682	12.682	(1.000)	260	468929			0.00- 54.80	24.65	
12.682	12.682	(1.000)	265	442881			0.00- 53.39	23.28	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
133 Indeno[1,2,3-cd]pyrene									
					CAS #: 193-39-5				
13.742	13.749	(1.084)	276	1258717	20.0000	20.4	80.00- 120.00	100.00	
13.741	13.749	(1.084)	138	144034			0.00- 42.48	11.44	
13.743	13.749	(1.084)	277	329301			0.00- 56.82	26.16	

134 Dibenz[a,h]anthracene									
					CAS #: 53-70-3				
13.749	13.755	(1.084)	278	1091651	20.0000	20.3	80.00- 120.00	100.00	
13.747	13.755	(1.084)	139	77077			0.00- 37.70	7.06	
13.749	13.755	(1.084)	279	256180			0.00- 54.57	23.47	

135 Benzo[g,h,i]perylene									
					CAS #: 191-24-2				
14.047	14.053	(1.108)	276	1015038	20.0000	21.6	80.00- 120.00	100.00	
14.045	14.053	(1.107)	138	97351			0.00- 40.01	9.59	
14.046	14.053	(1.108)	277	239700			0.00- 54.80	23.61	

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- H - Operator selected an alternate compound hit.

Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

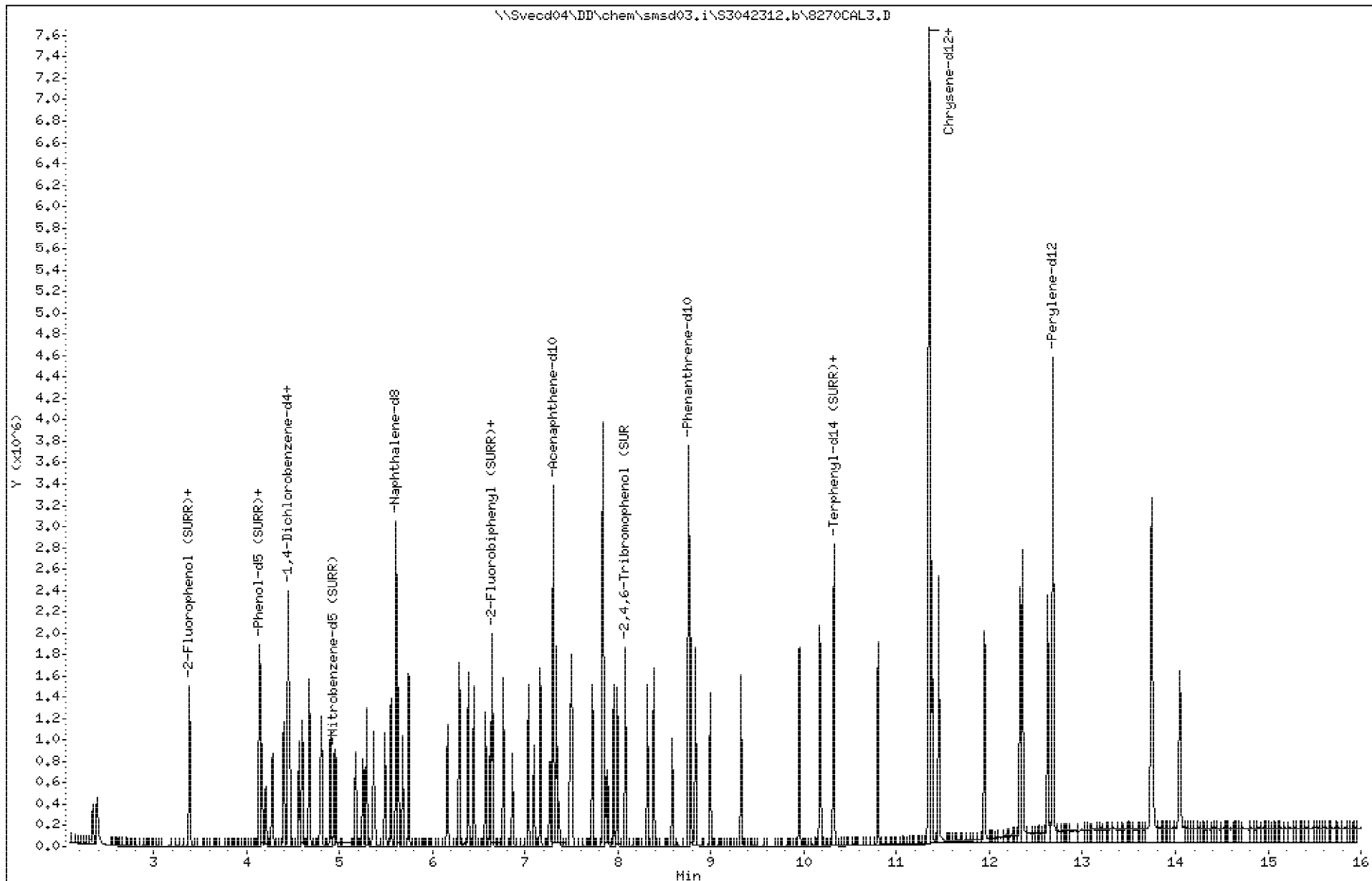
Sample Info: 45925

Operator: PEL

Purge Volume: 1000.0

Column phase: HPMS-5

Column diameter: 0.25



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

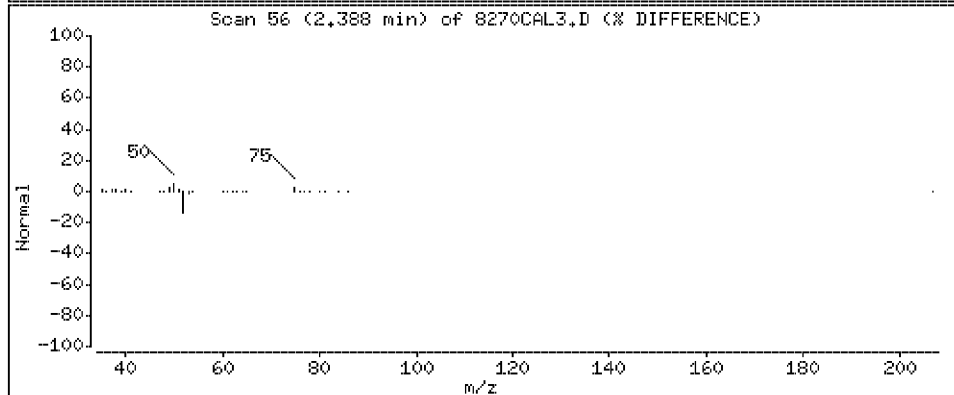
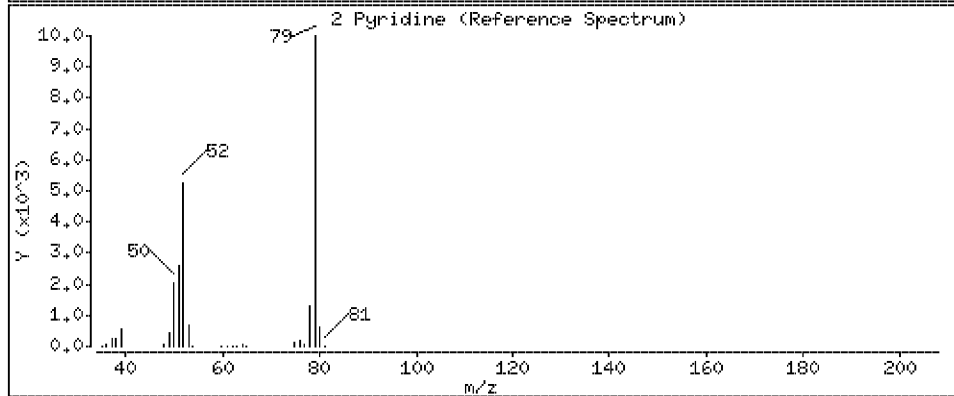
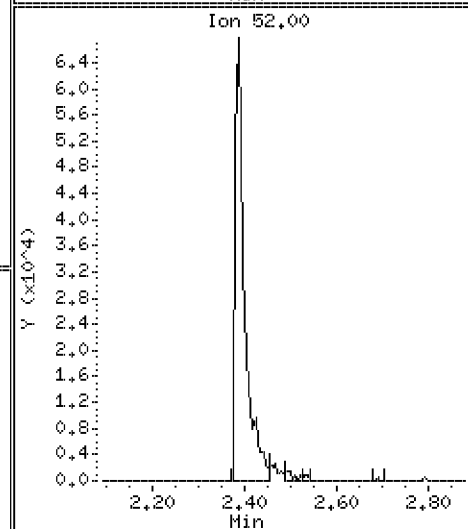
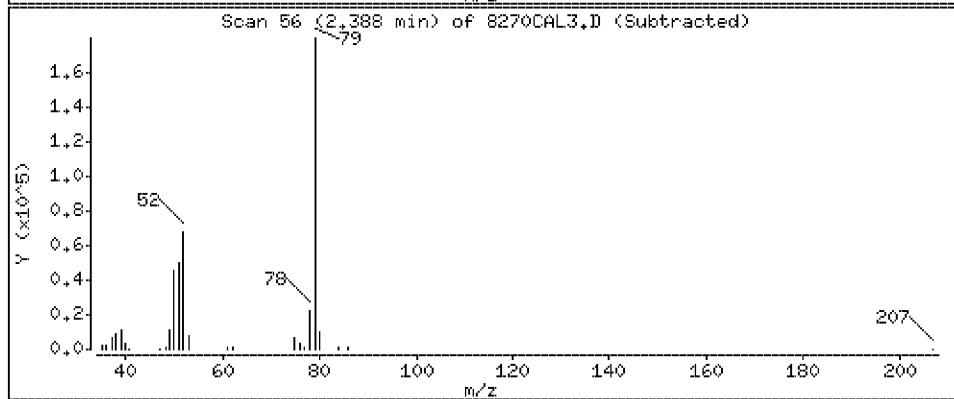
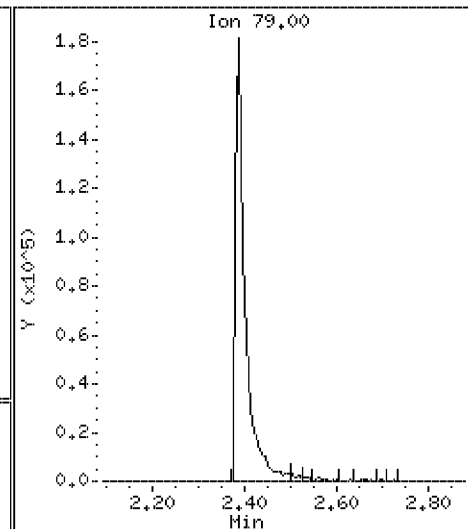
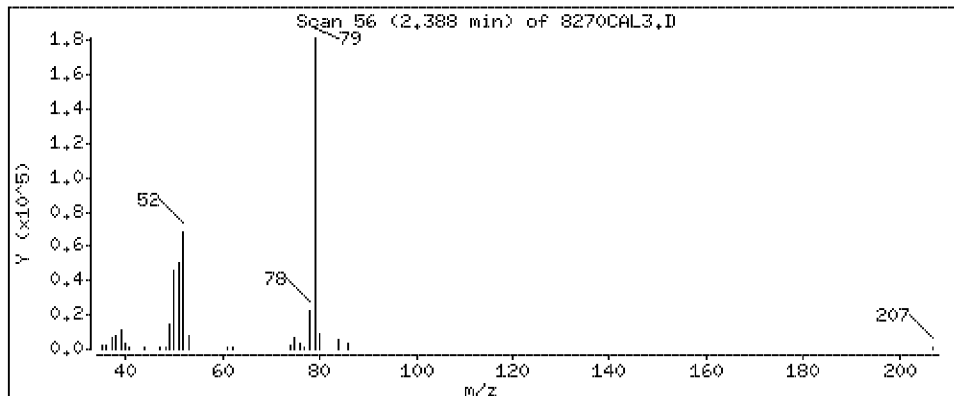
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

2 Pyridine

Concentration: 20.3 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

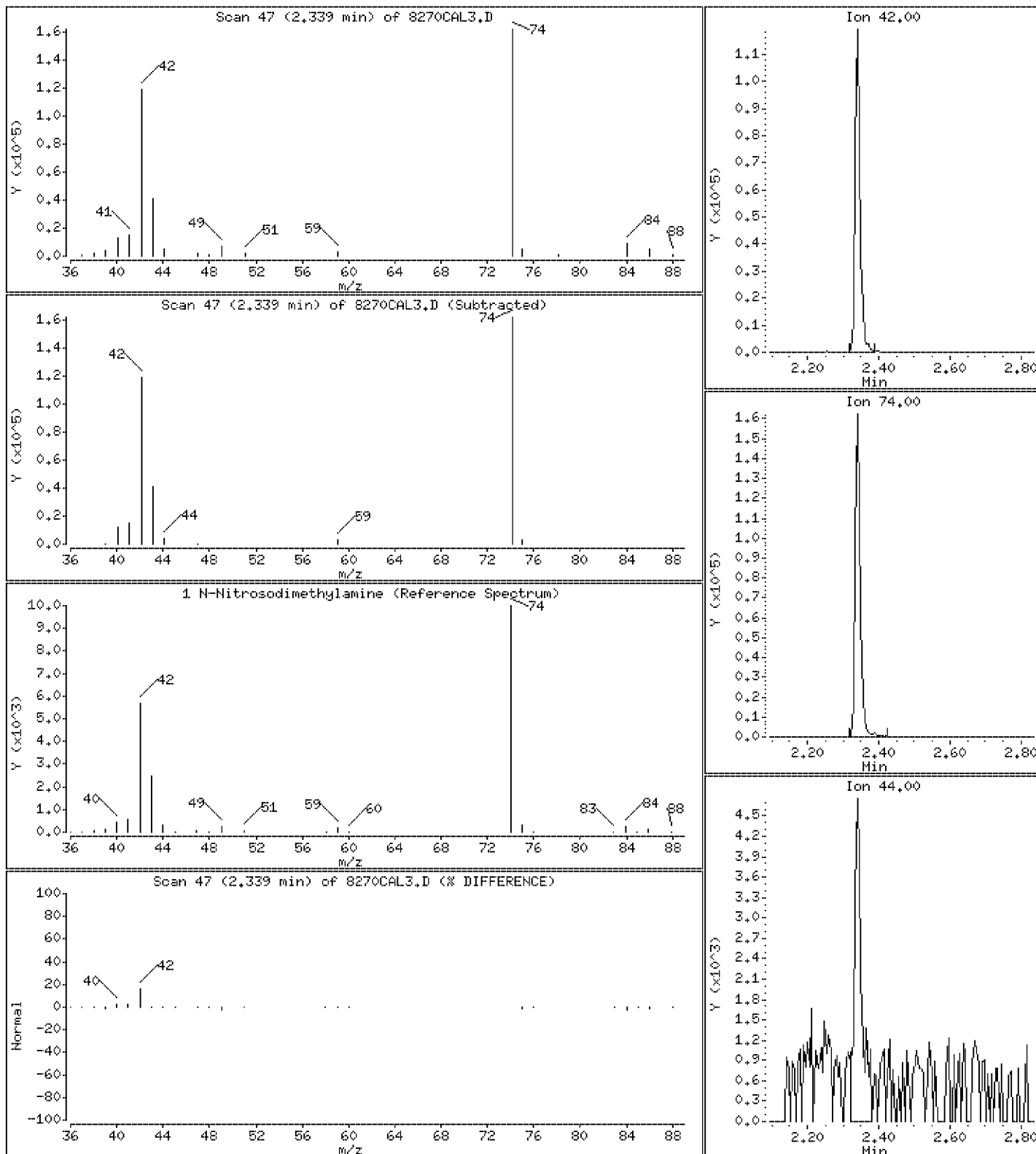
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

1 N-Nitrosodimethylamine

Concentration: 20.0 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

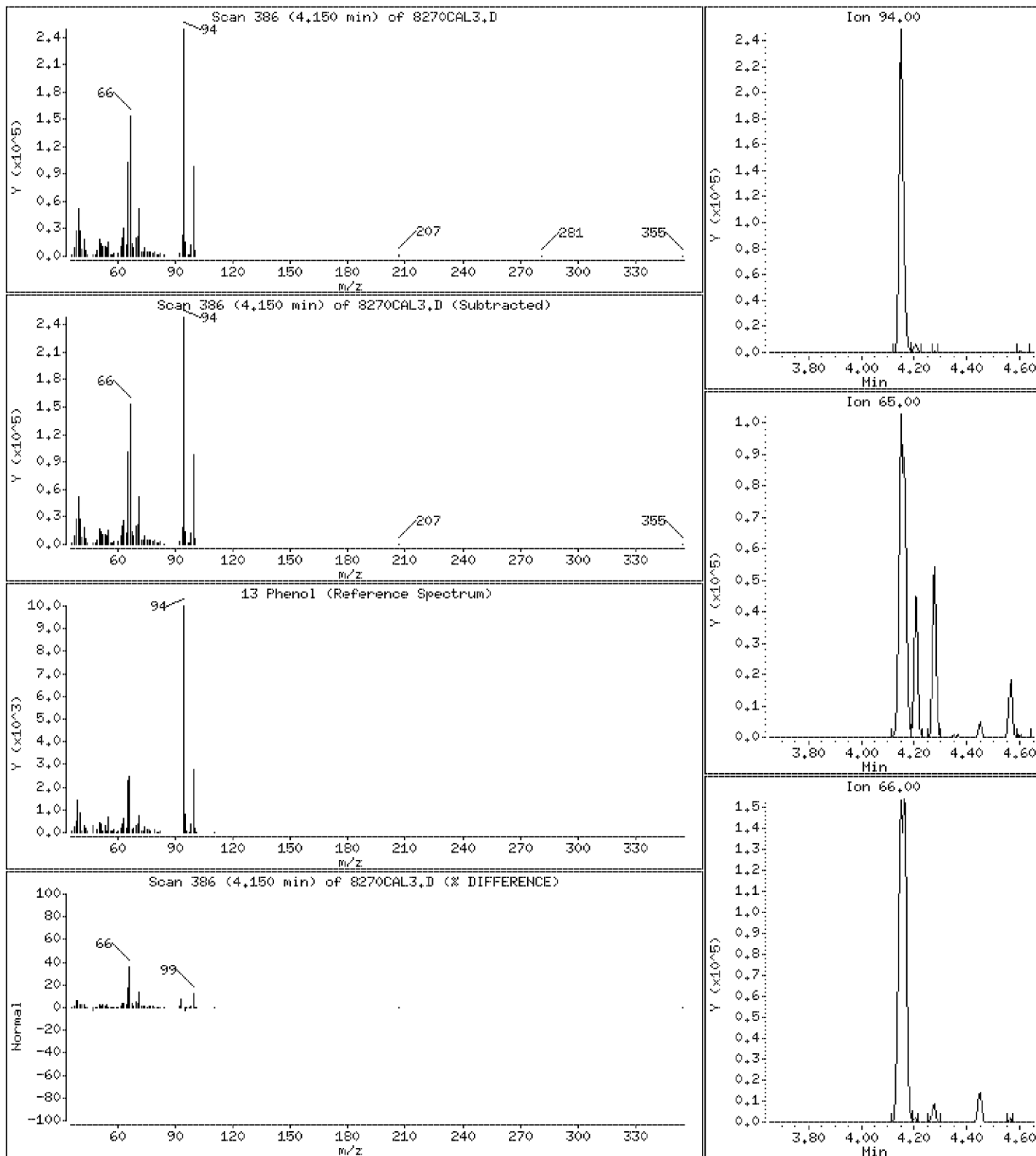
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

13 Phenol

Concentration: 19.2 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

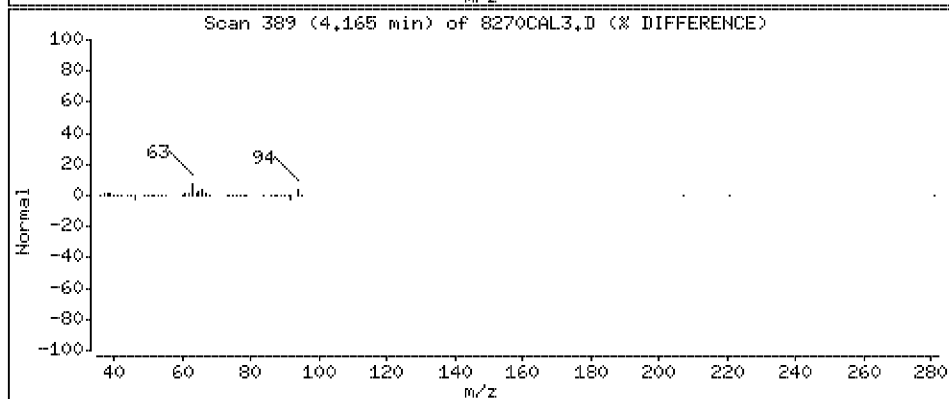
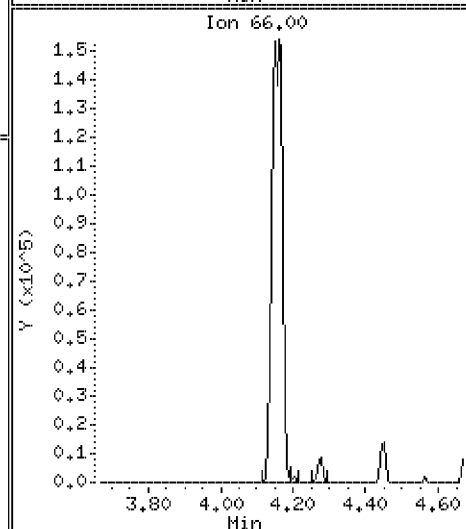
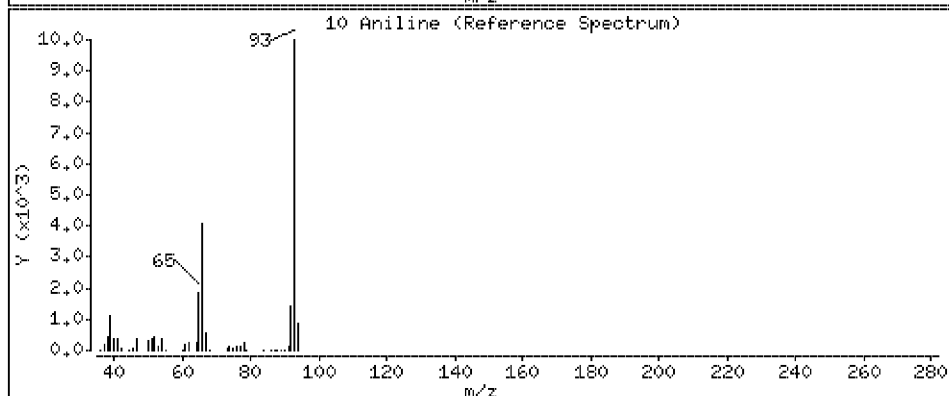
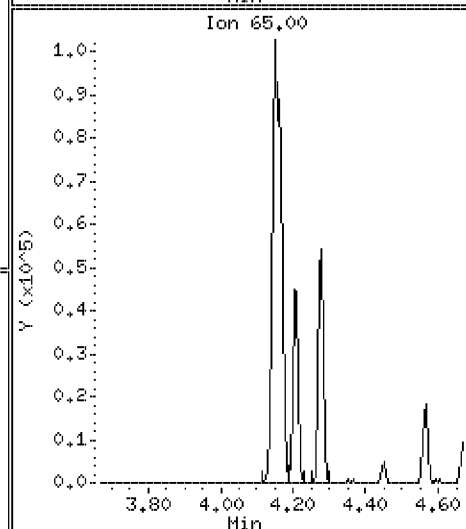
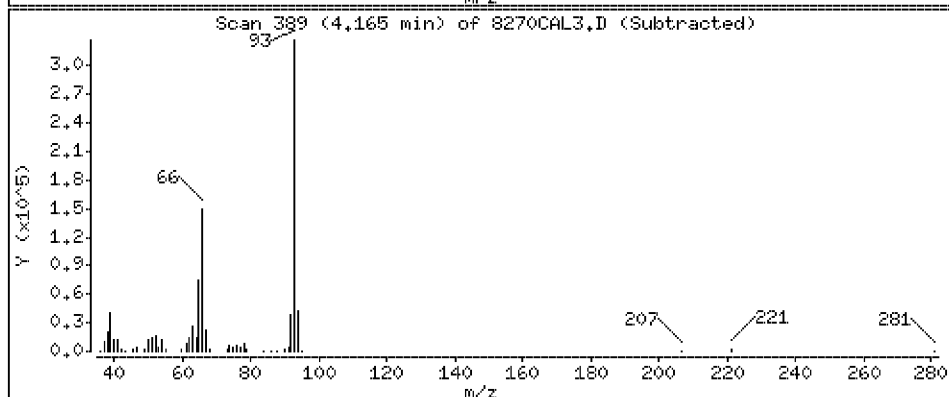
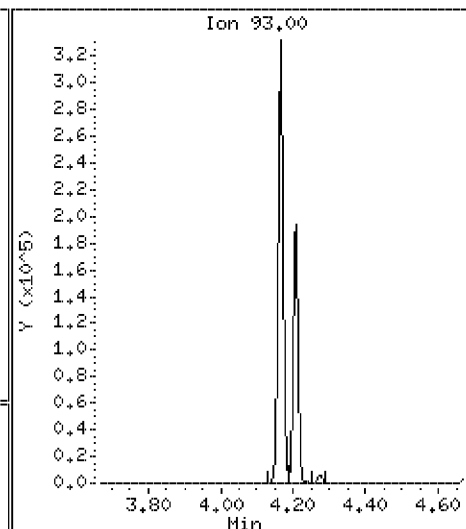
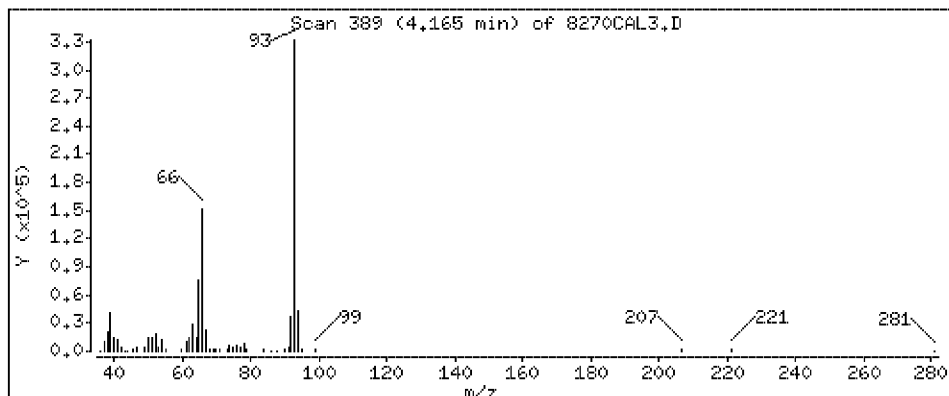
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

10 Aniline

Concentration: 20,5 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

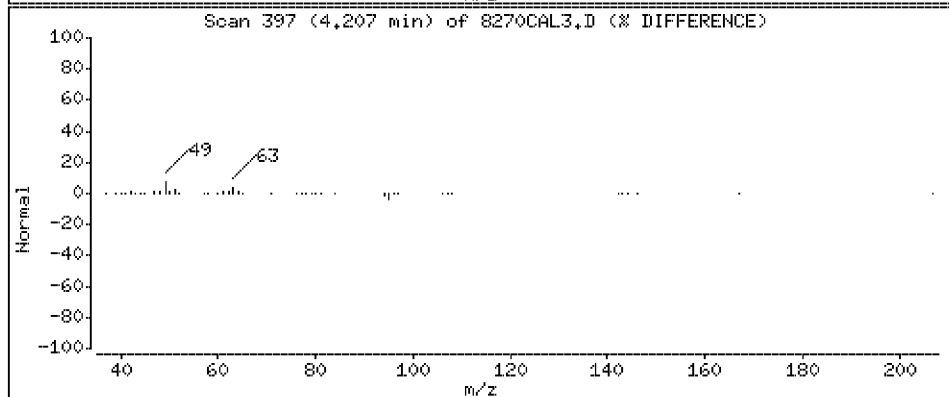
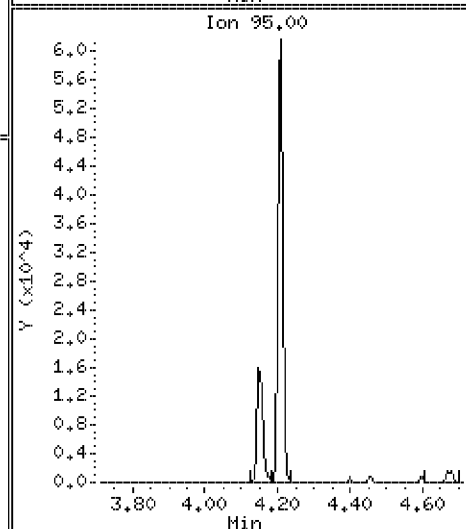
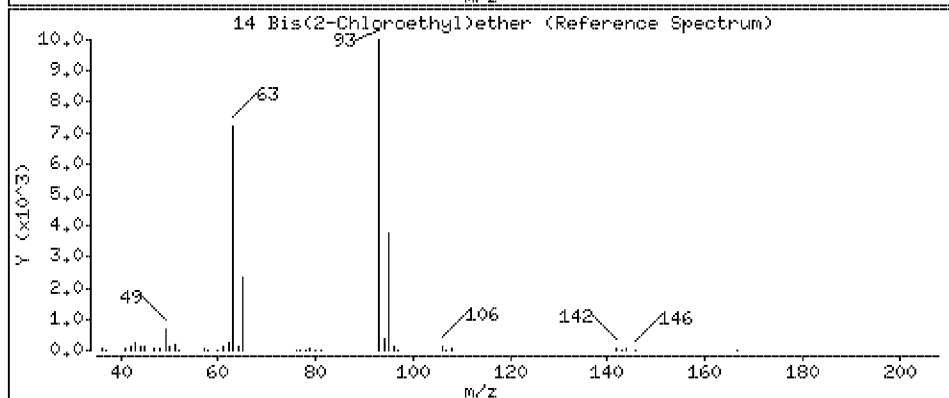
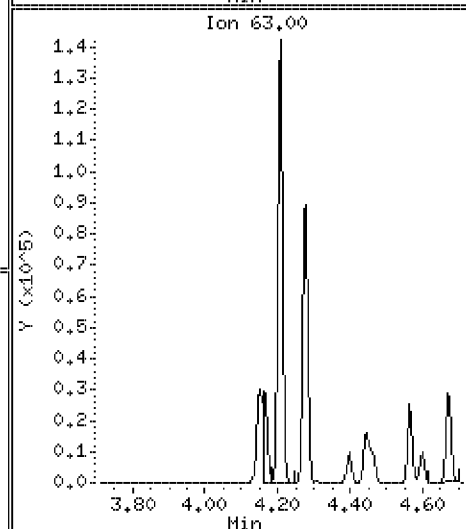
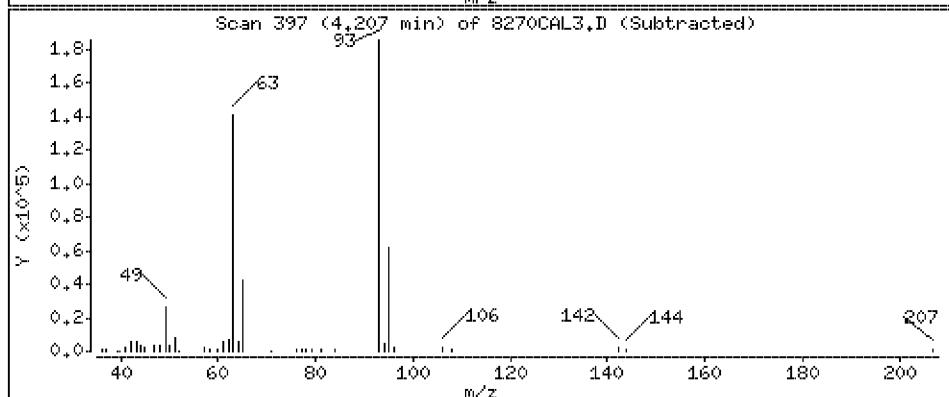
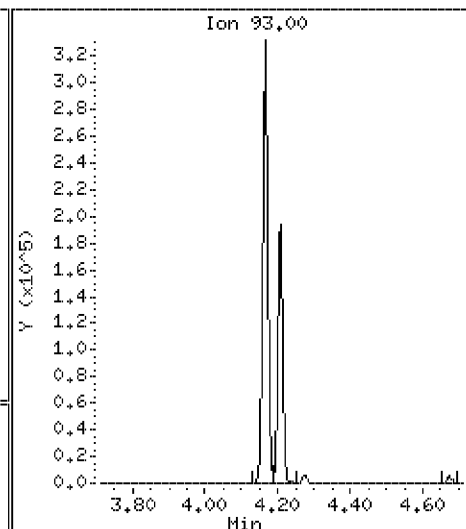
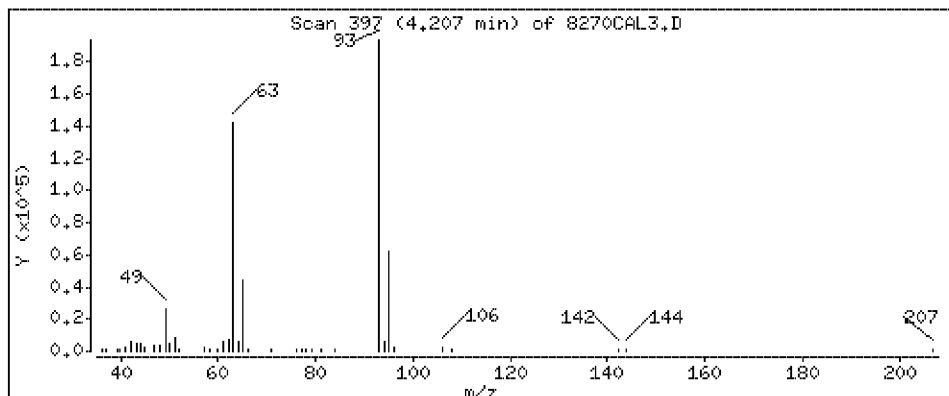
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

14 Bis(2-Chloroethyl)ether

Concentration: 20.0 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

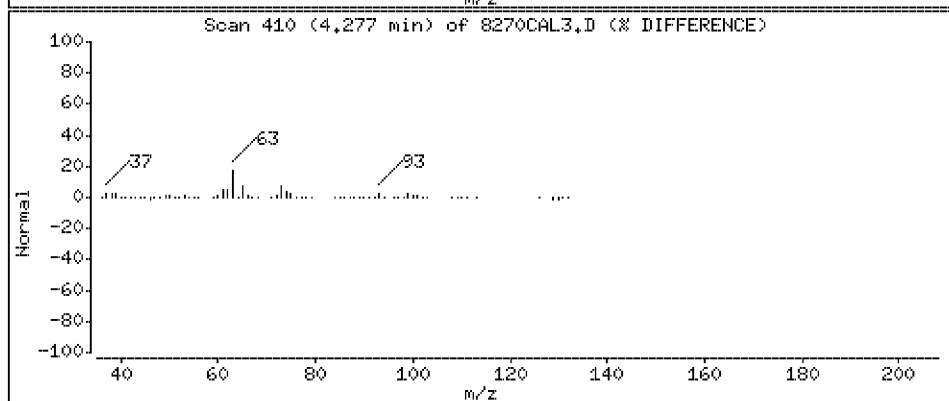
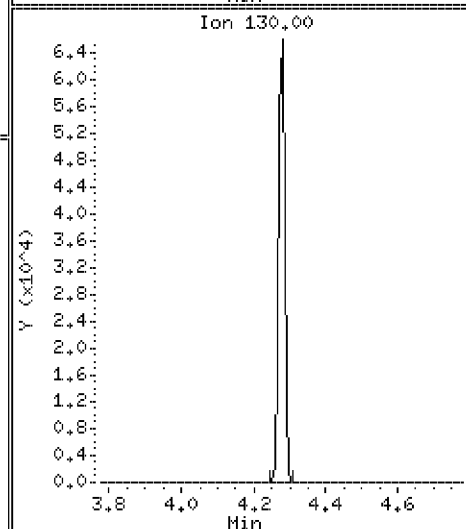
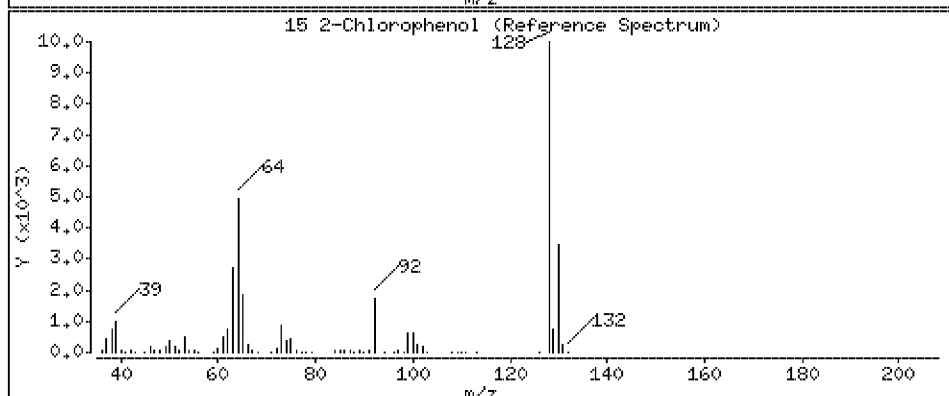
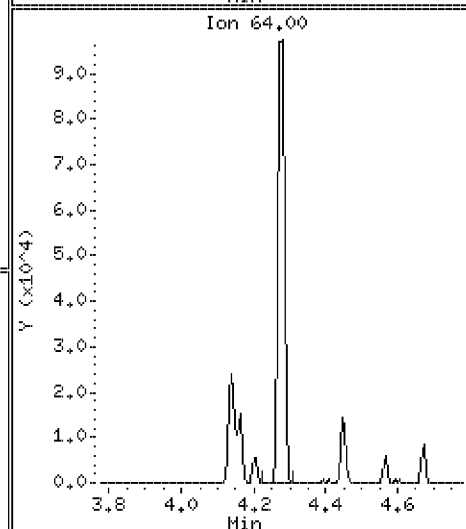
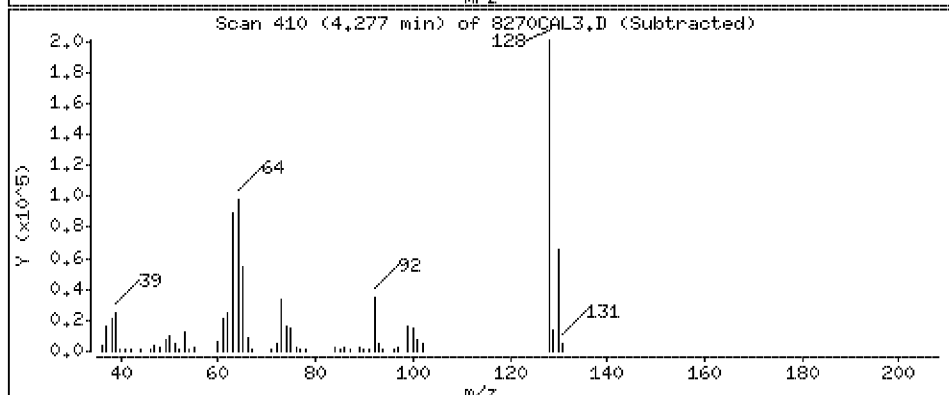
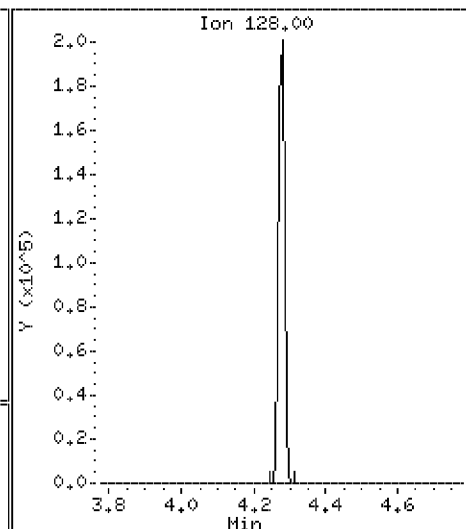
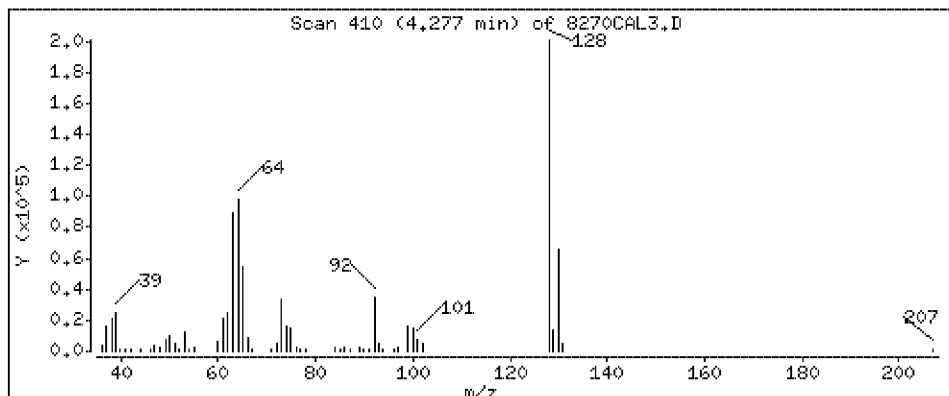
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

15 2-Chlorophenol

Concentration: 19.8 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

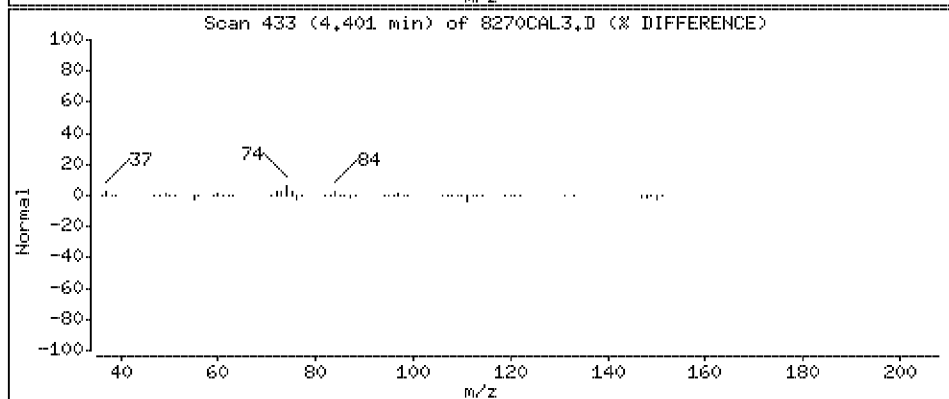
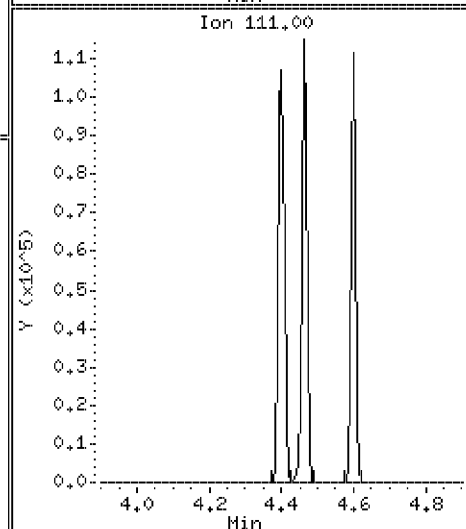
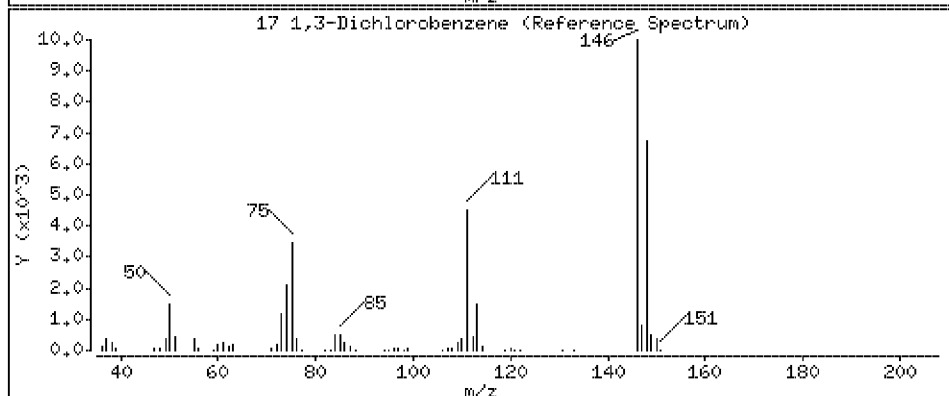
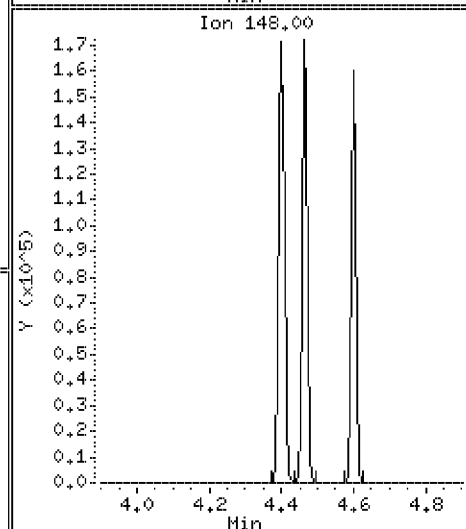
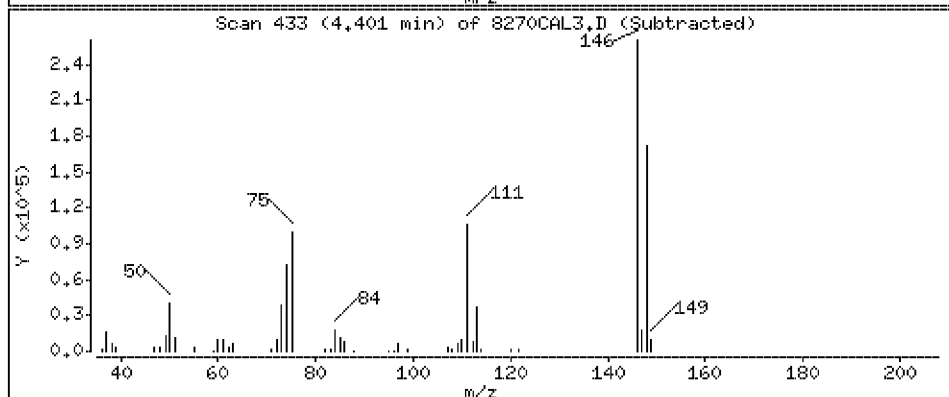
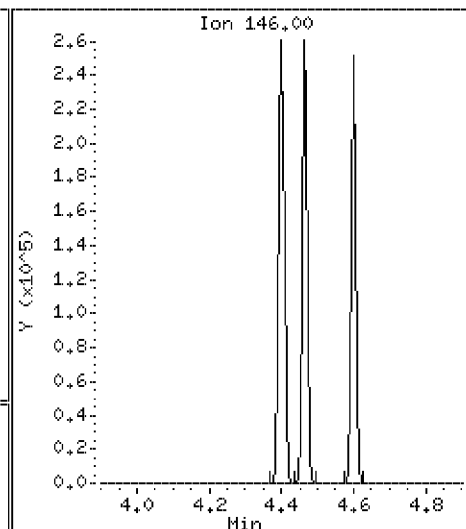
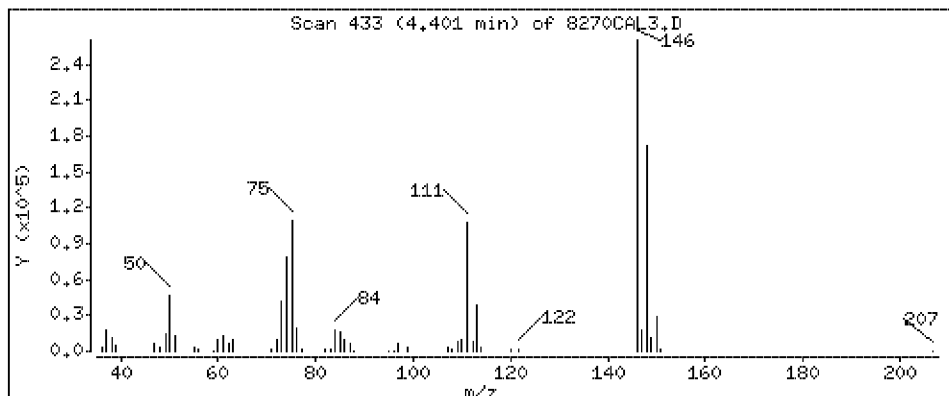
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

17 1,3-Dichlorobenzene

Concentration: 20.0 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

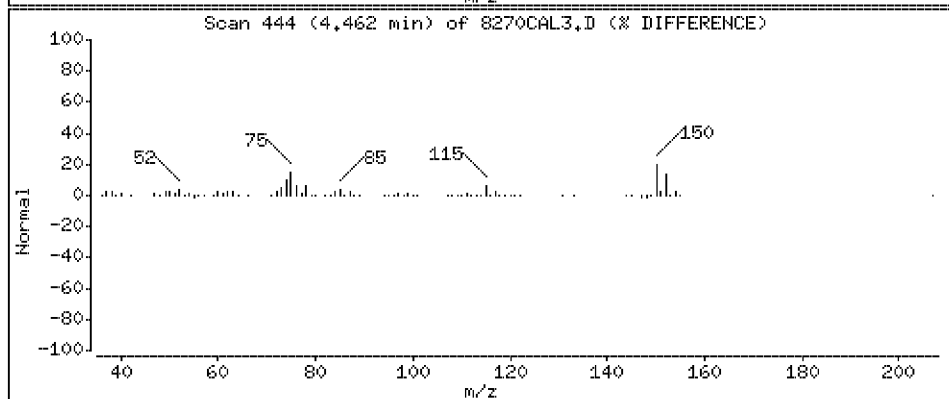
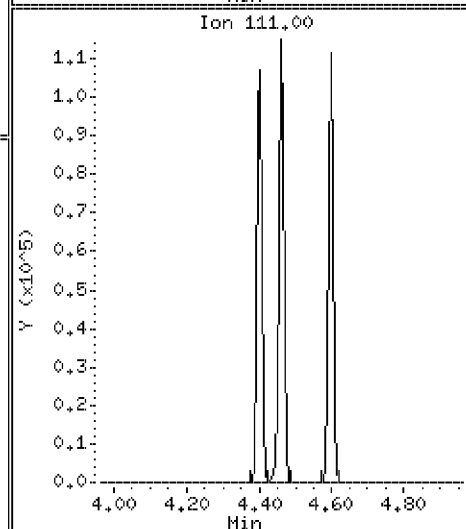
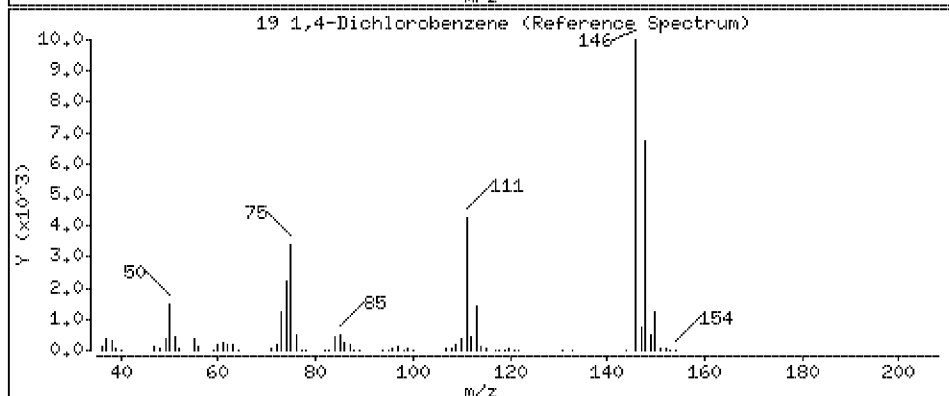
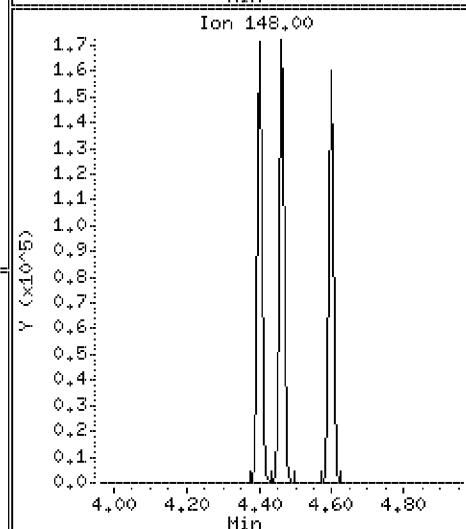
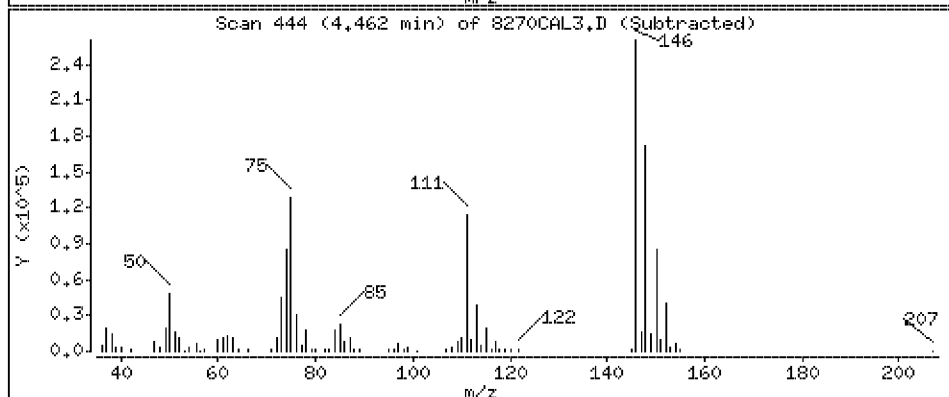
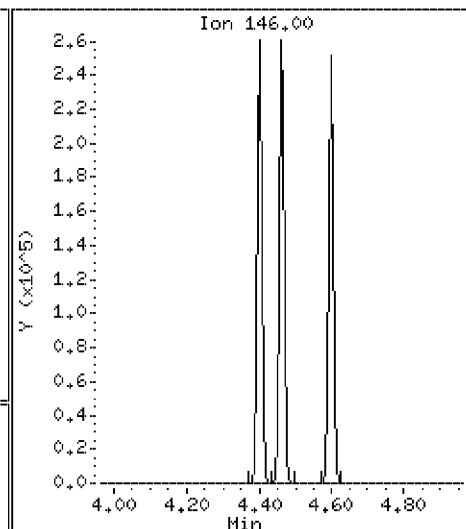
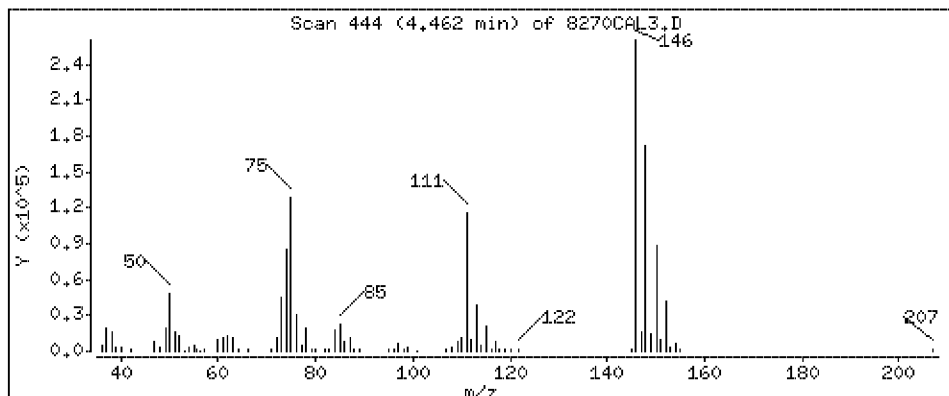
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

19 1,4-Dichlorobenzene

Concentration: 19.6 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

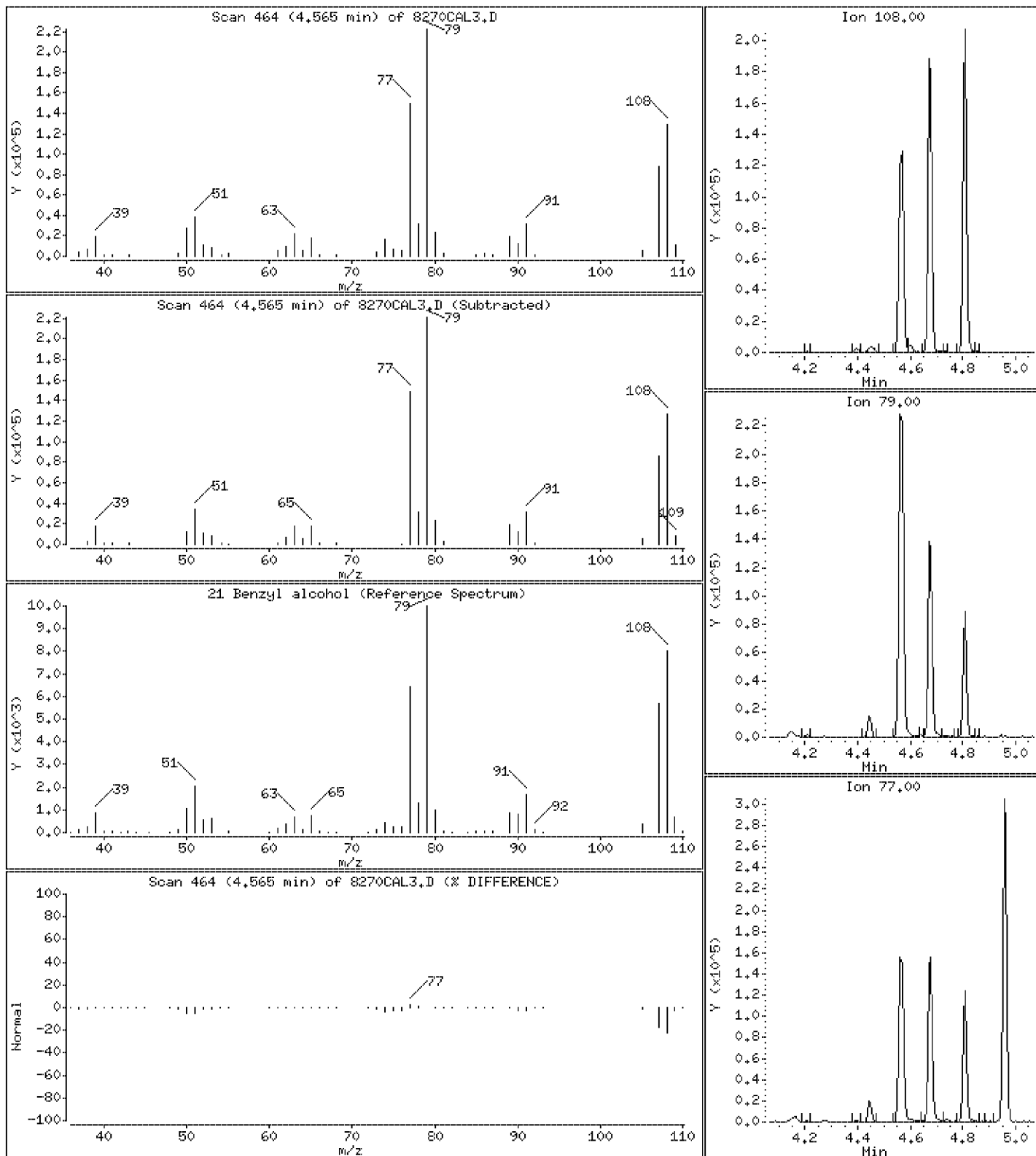
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

21 Benzyl alcohol

Concentration: 19.0 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

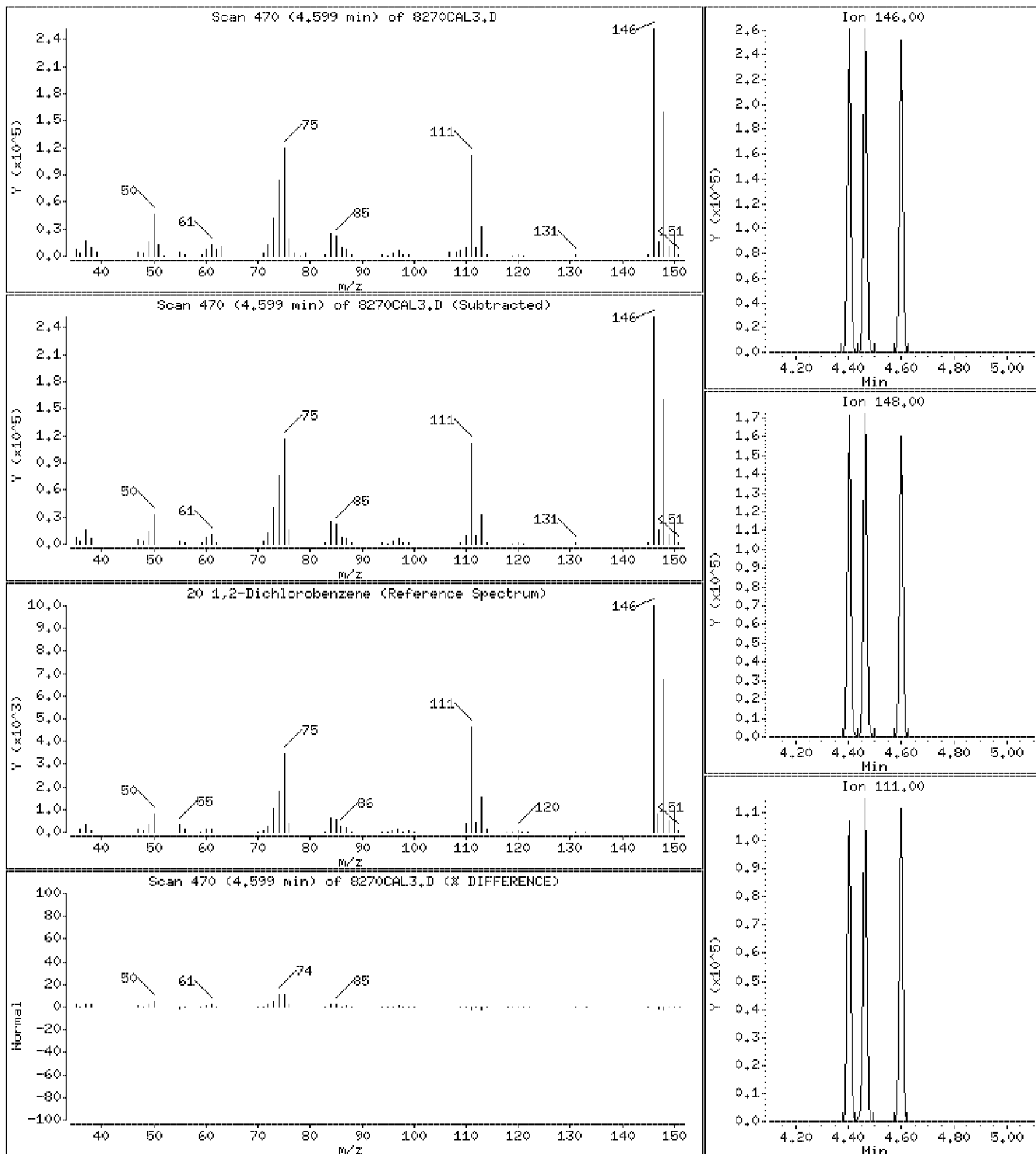
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

20 1,2-Dichlorobenzene

Concentration: 19.9 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

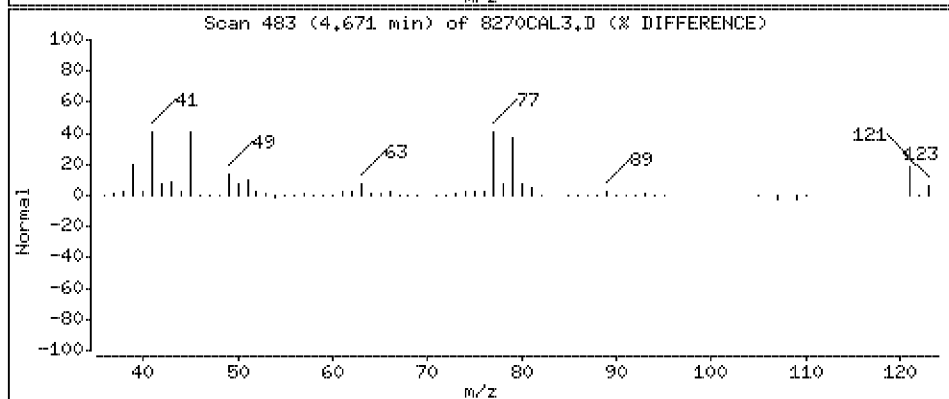
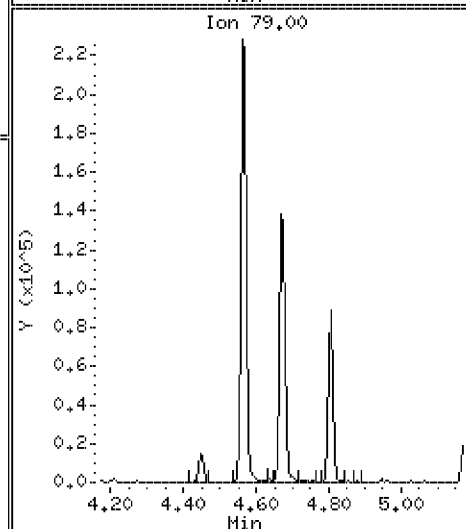
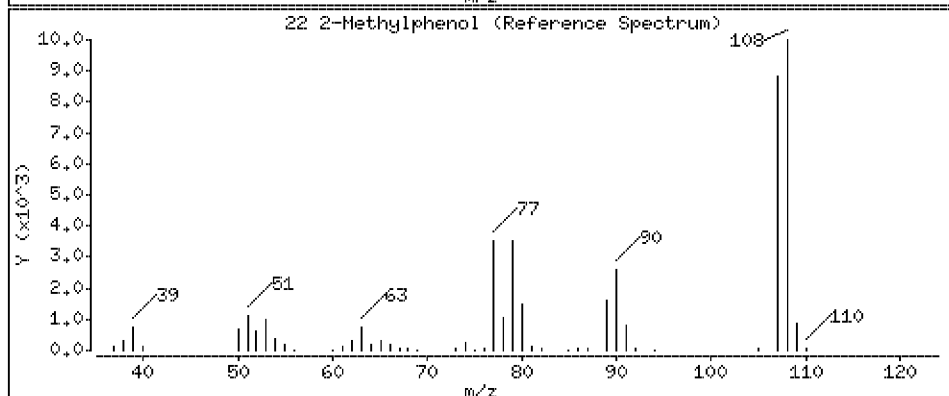
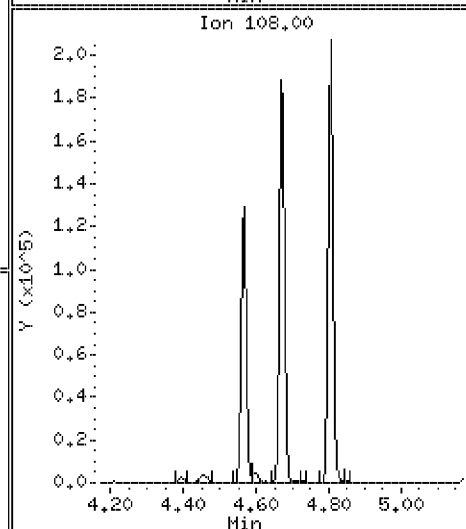
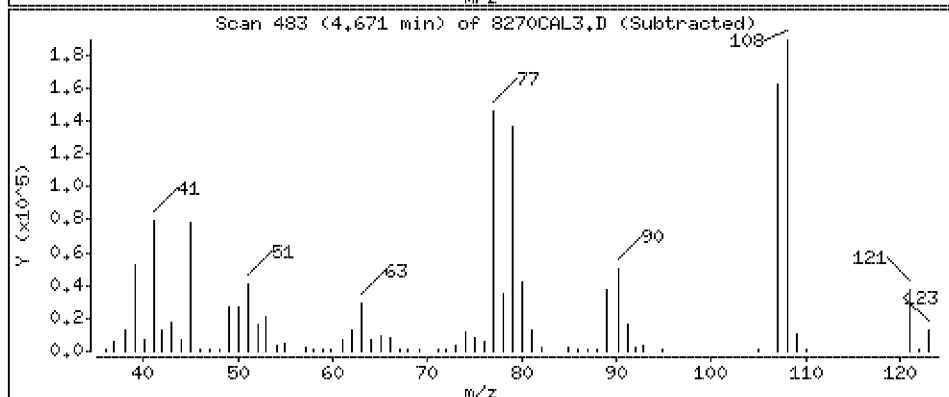
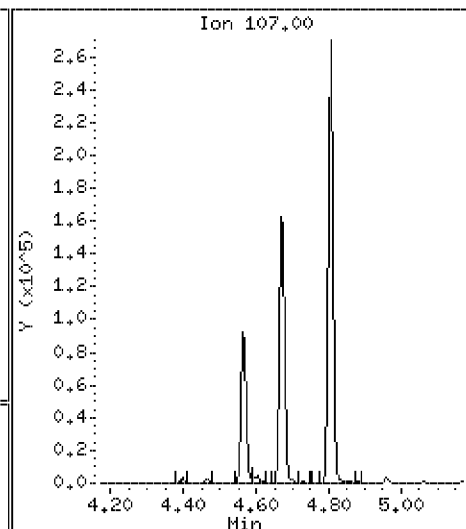
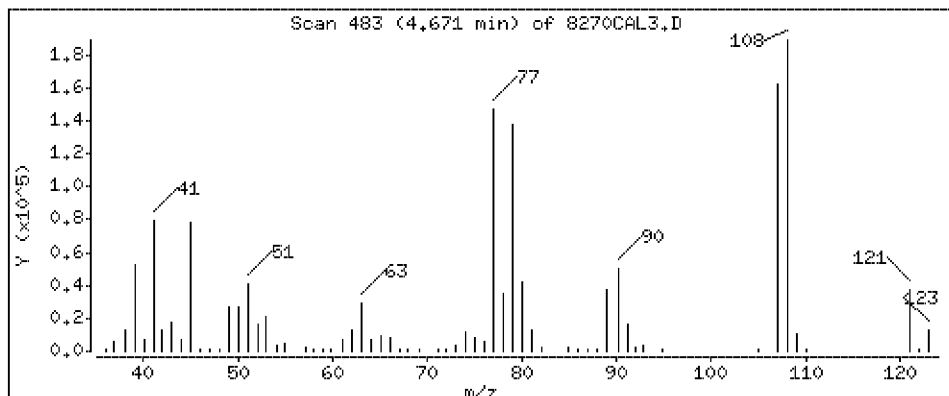
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

22 2-Methylphenol

Concentration: 18.9 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

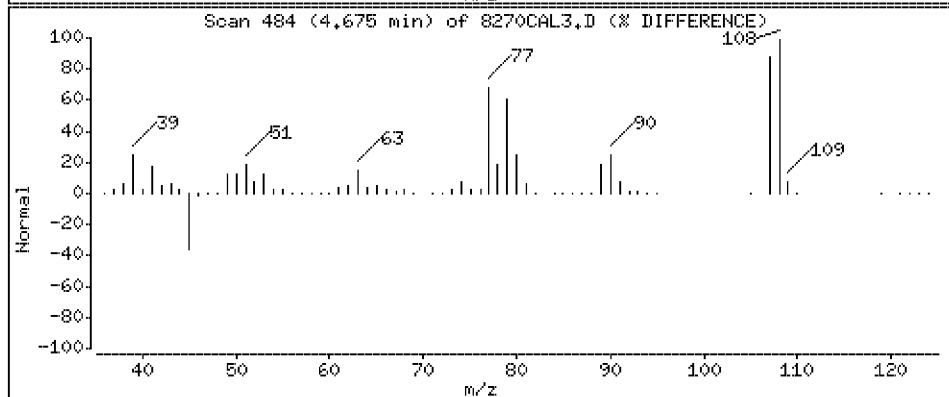
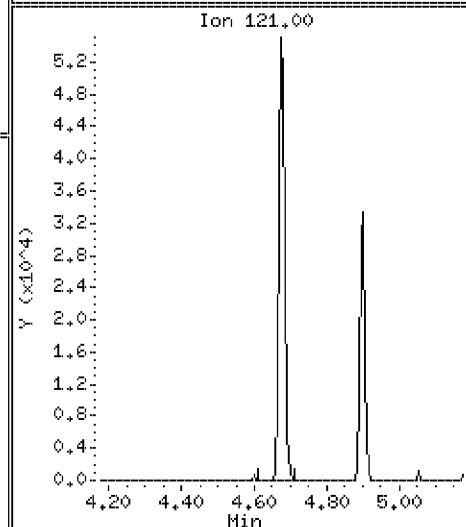
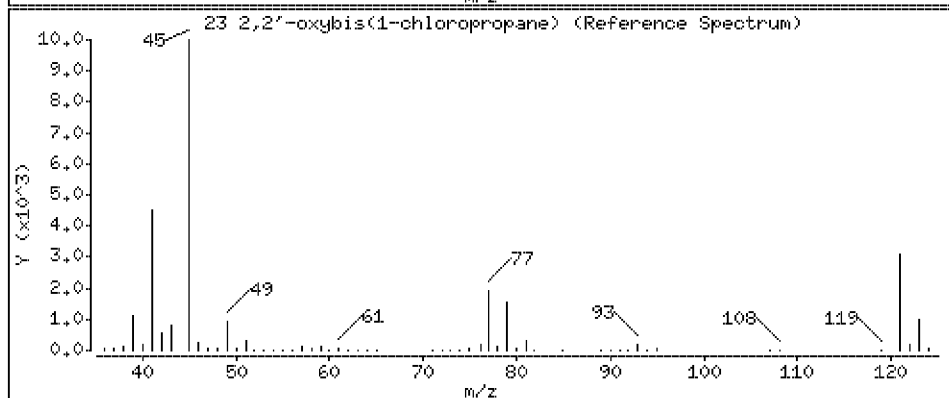
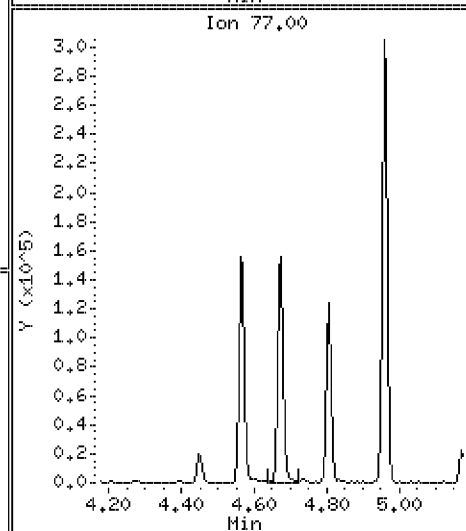
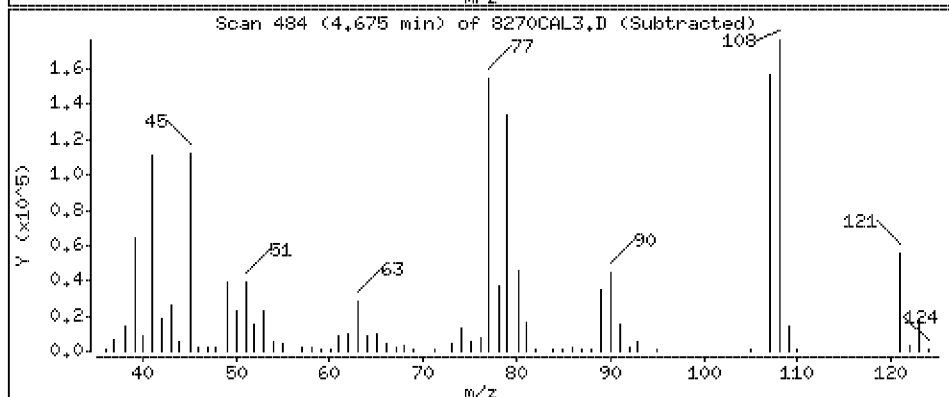
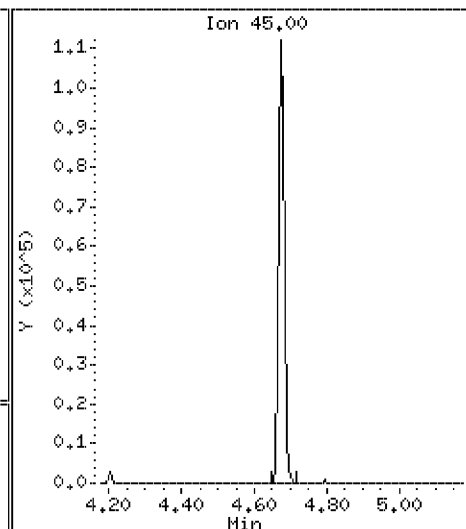
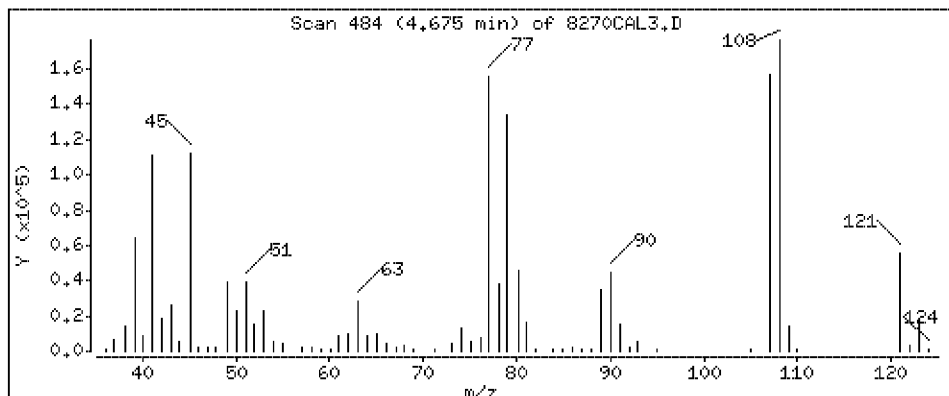
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

23 2,2'-oxybis(1-chloropropane)

Concentration: 19.4 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

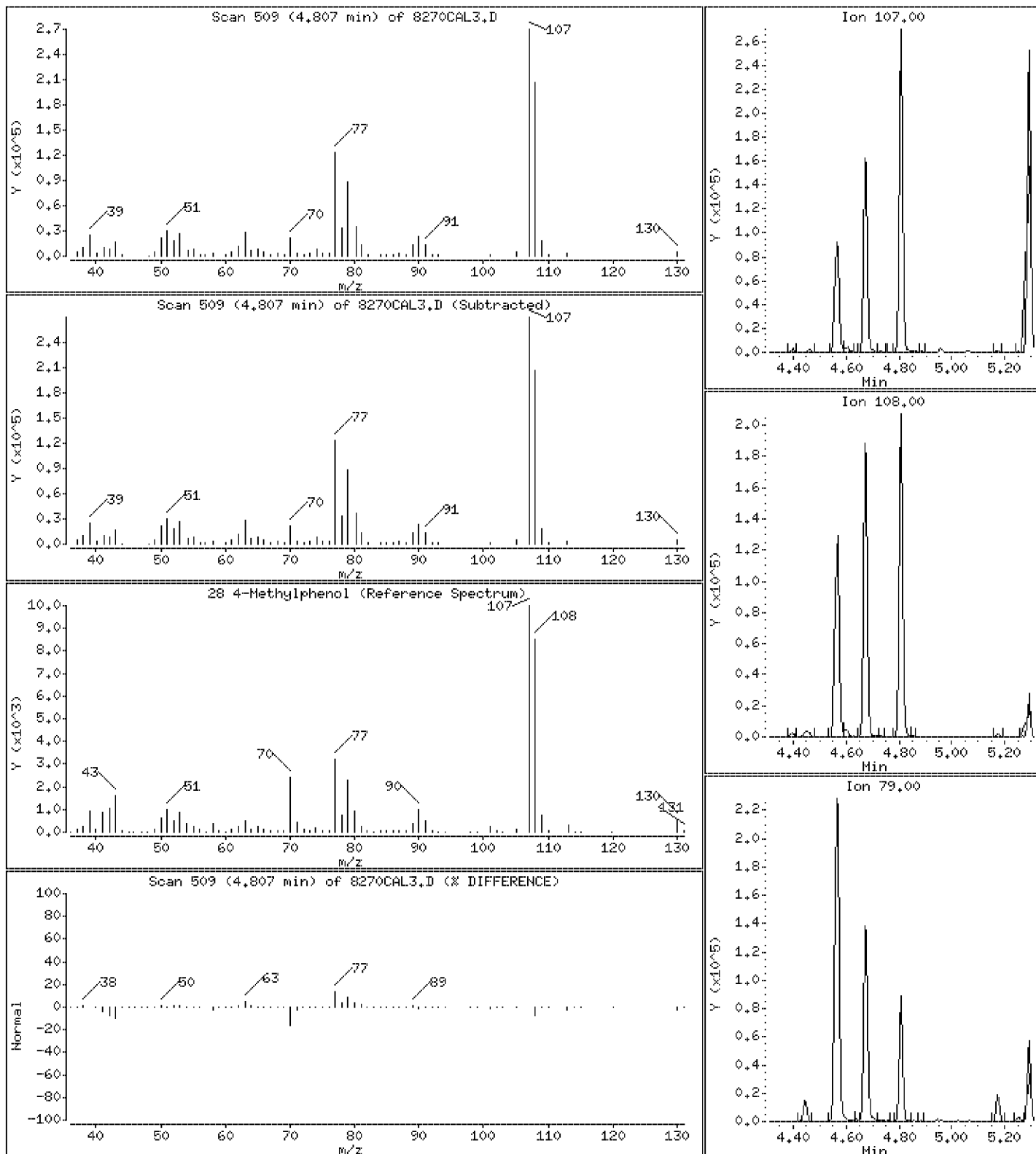
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

28 4-Methylphenol

Concentration: 19.5 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

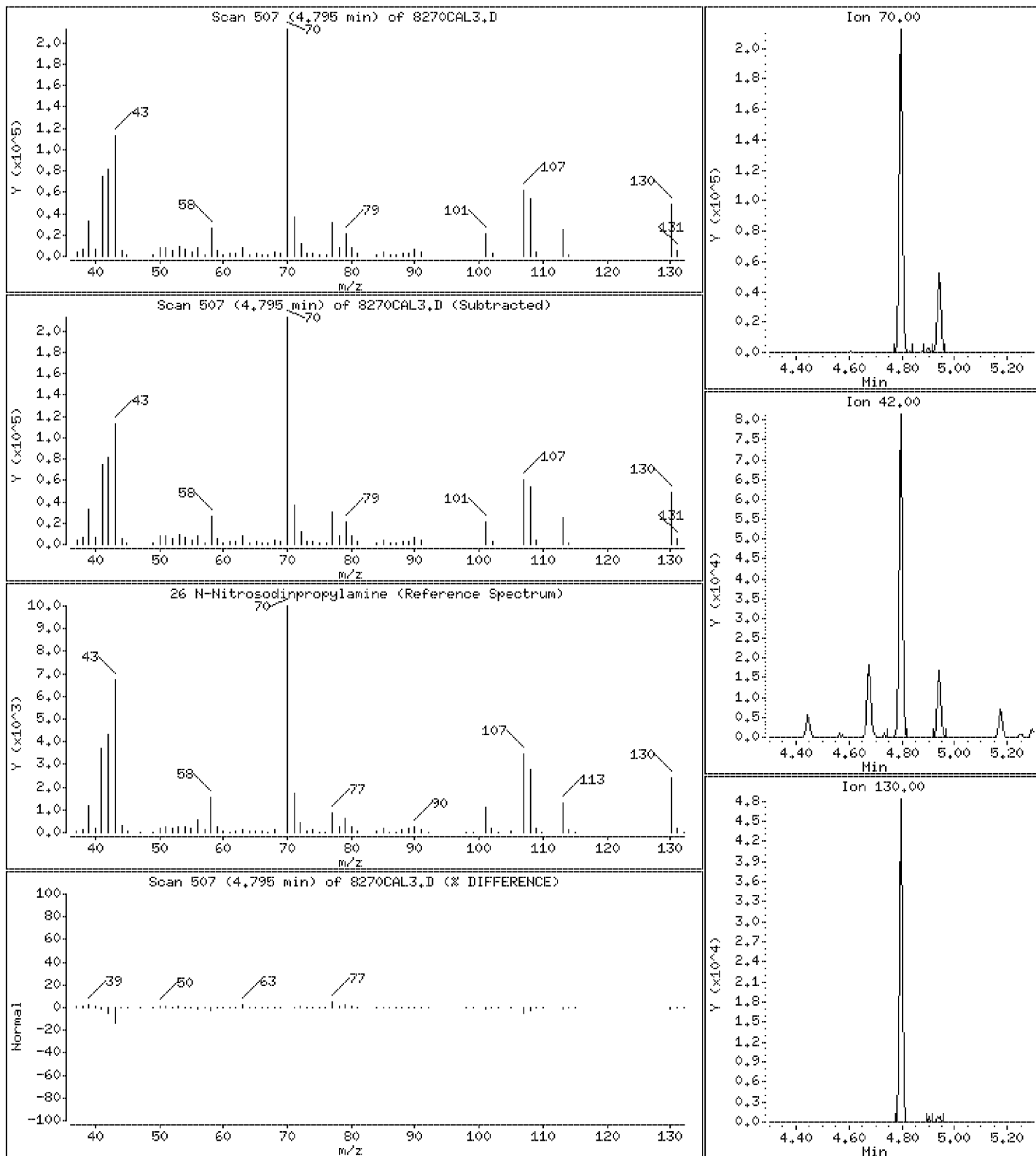
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

26 N-Nitrosodipropylamine

Concentration: 19.3 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

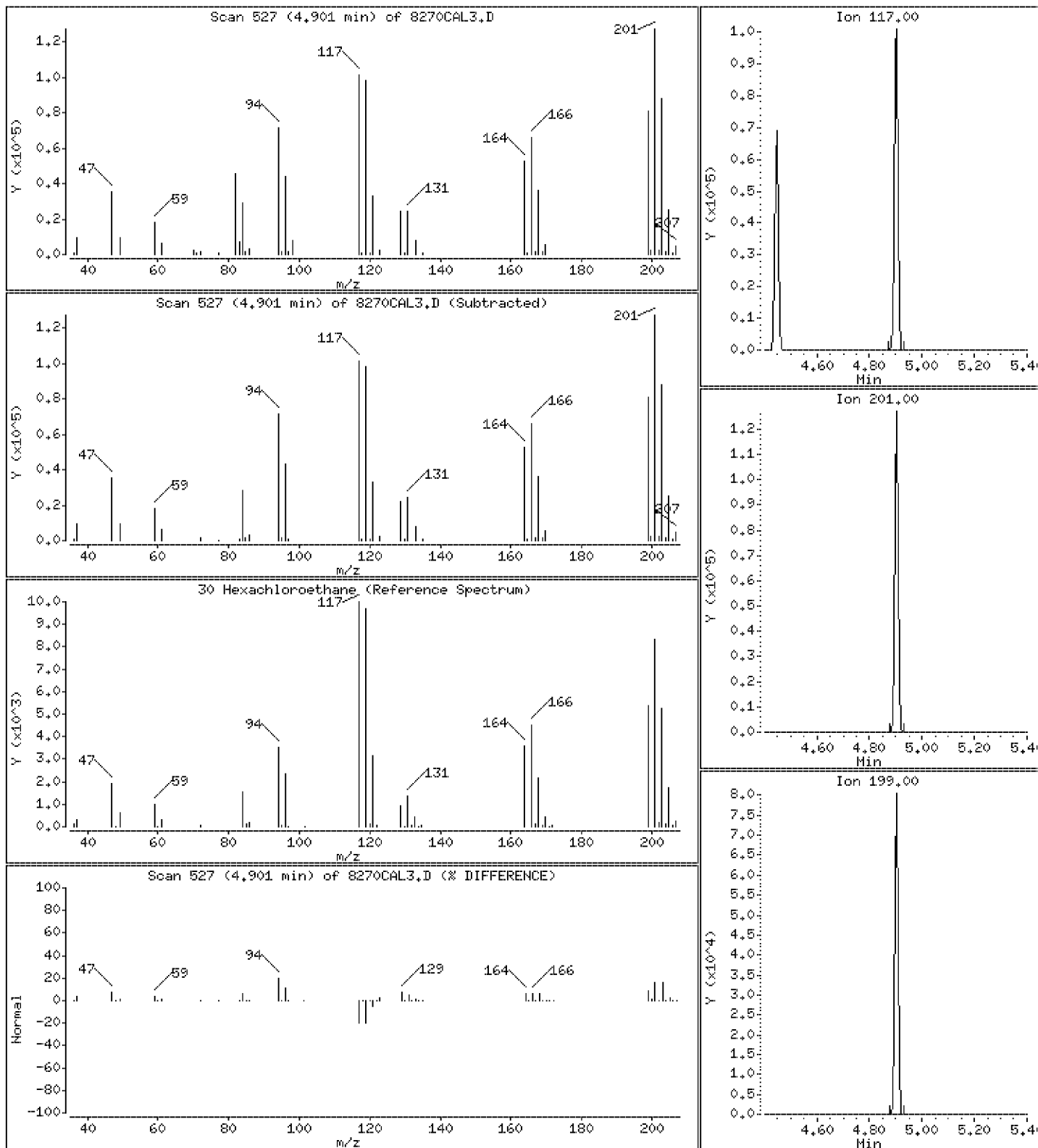
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

30 Hexachloroethane

Concentration: 19.4 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

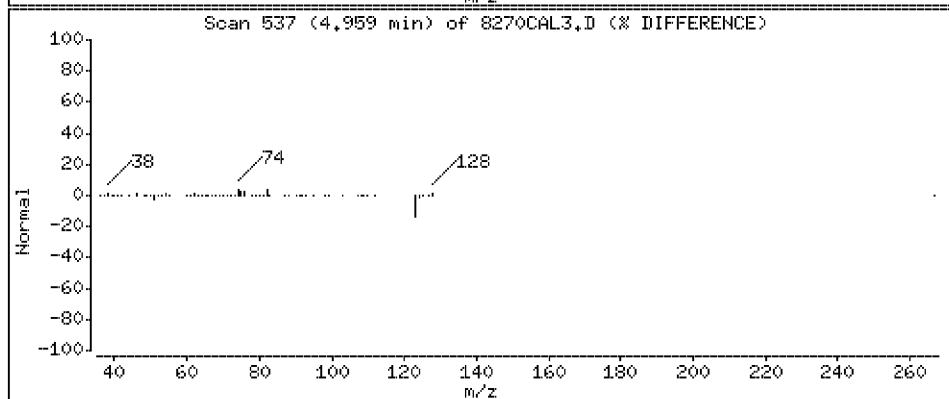
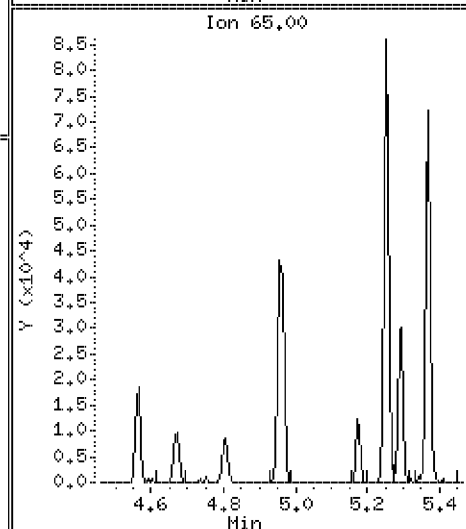
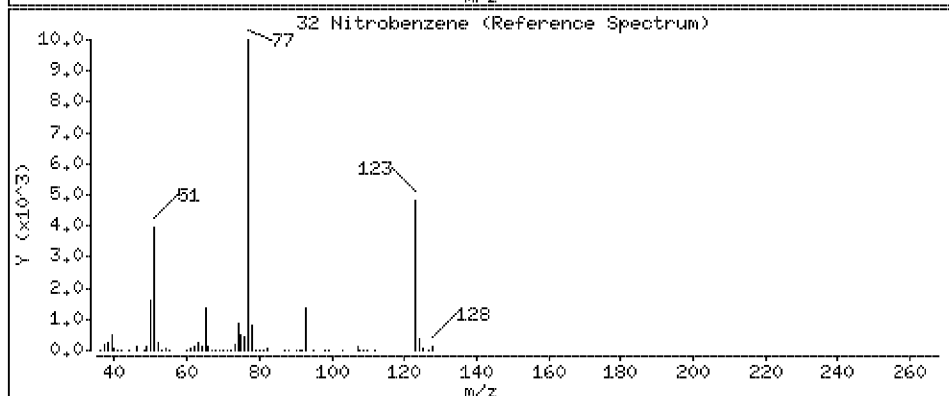
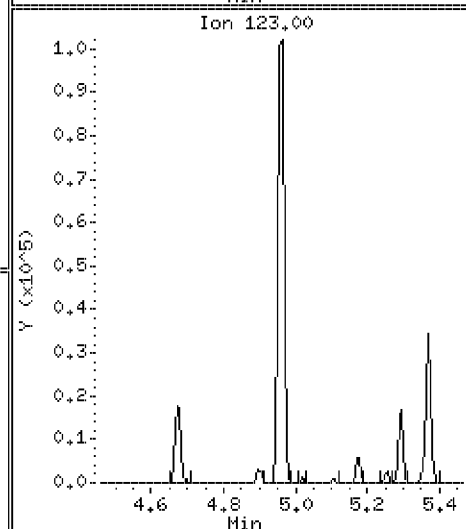
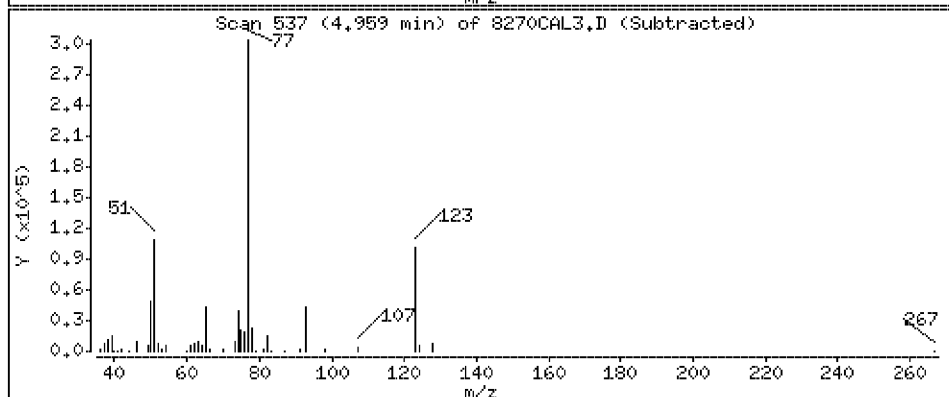
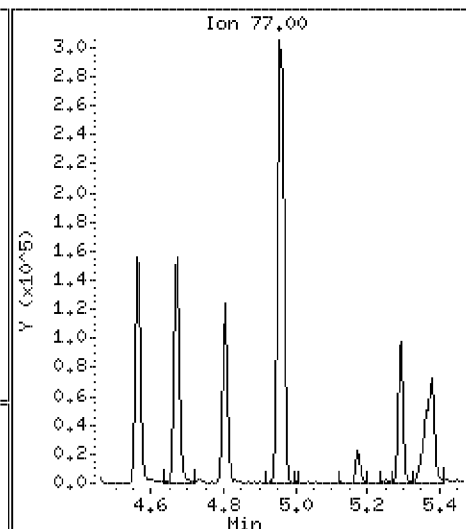
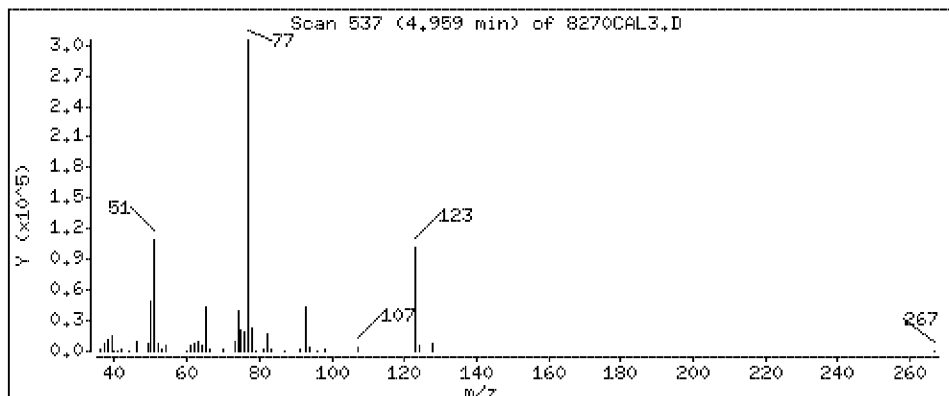
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

32 Nitrobenzene

Concentration: 19.8 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

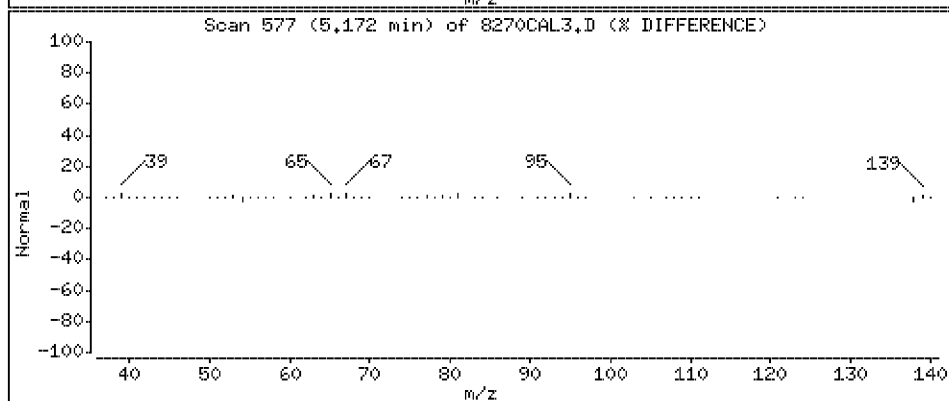
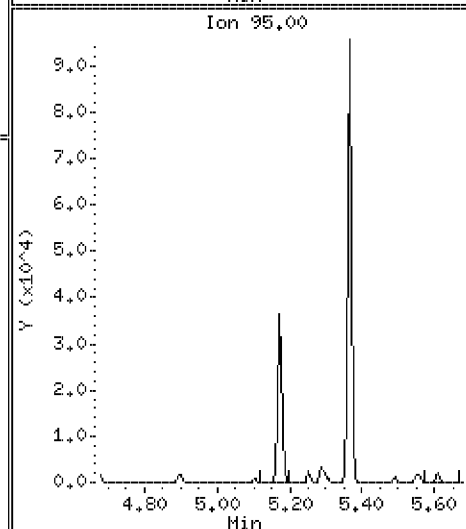
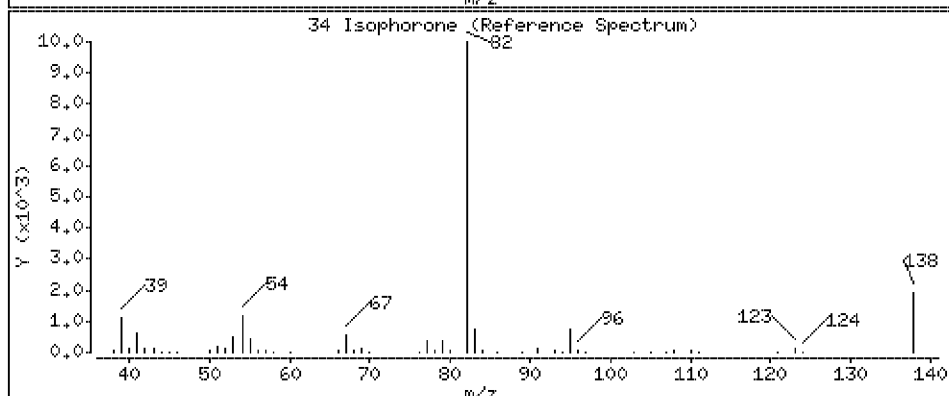
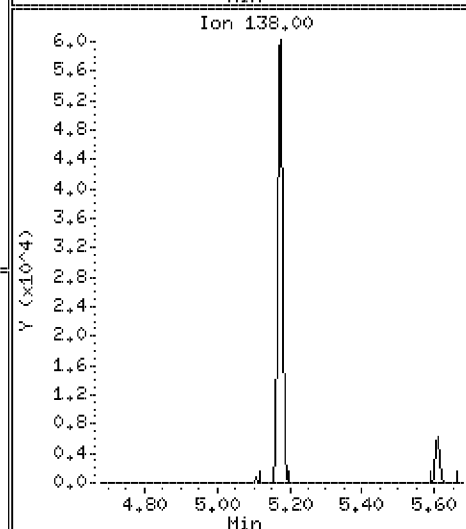
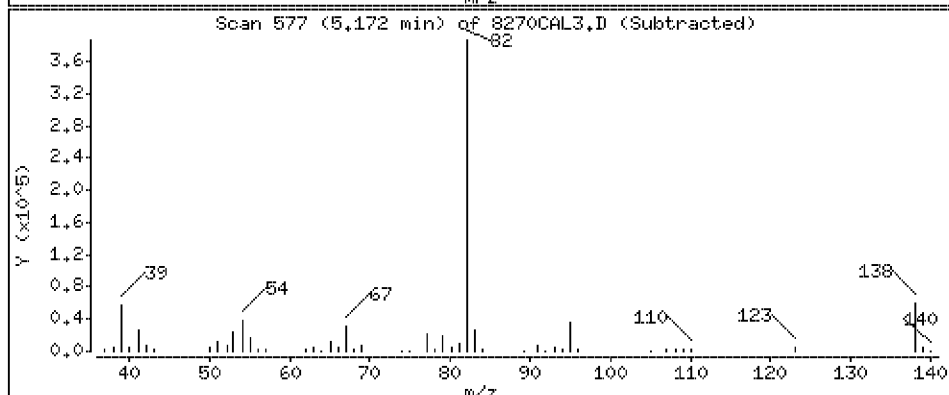
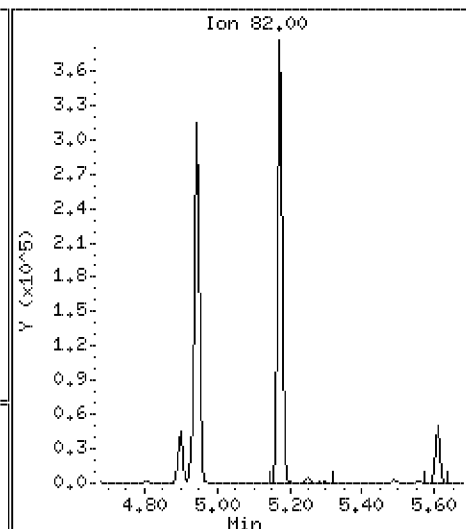
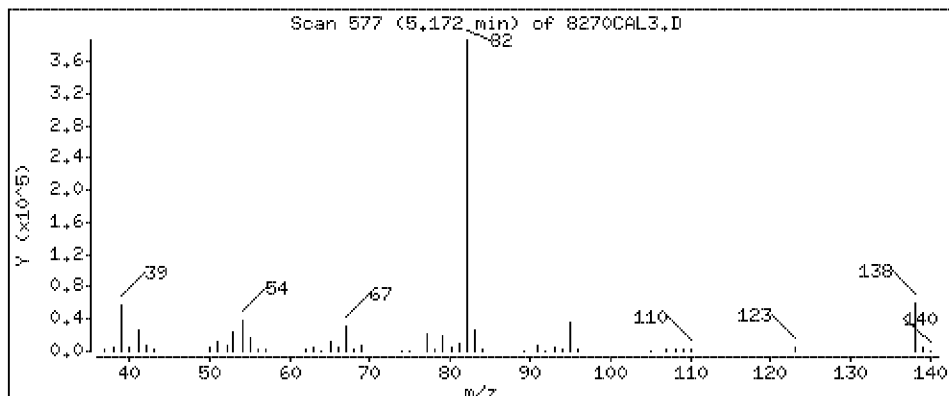
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

34 Isophorone

Concentration: 19.8 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

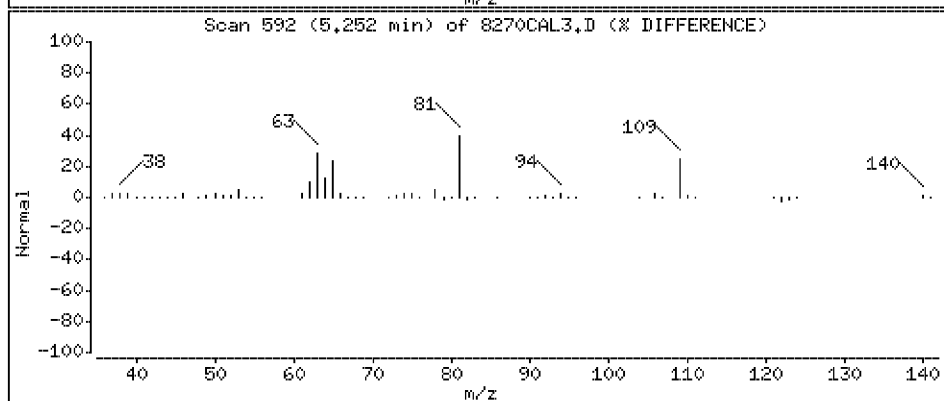
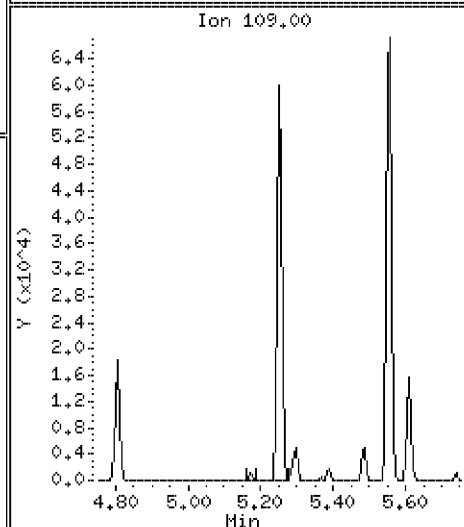
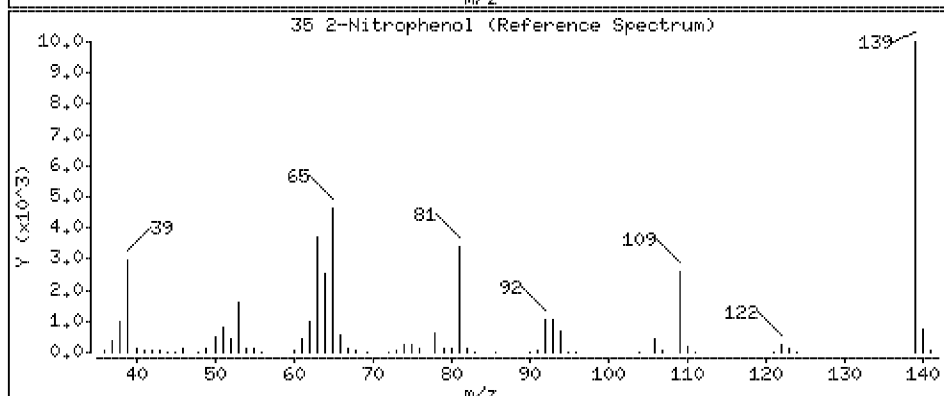
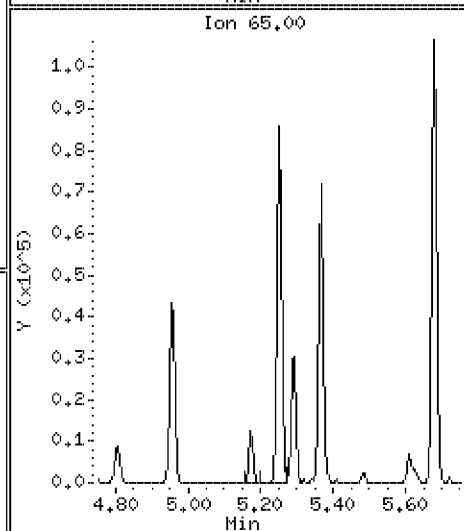
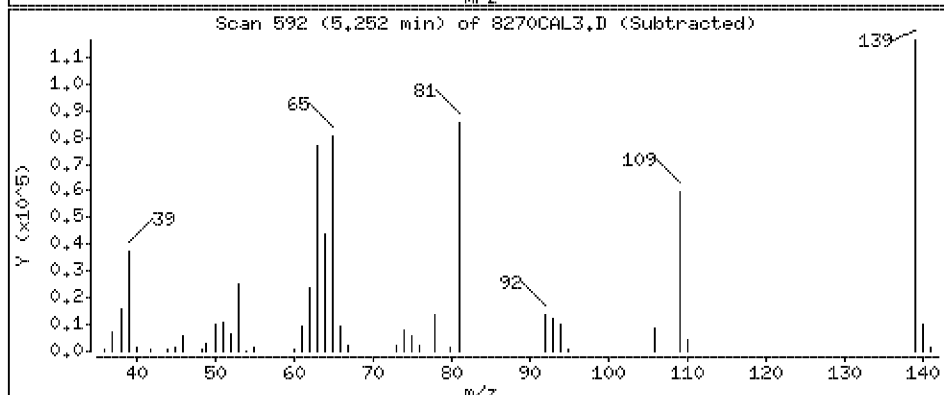
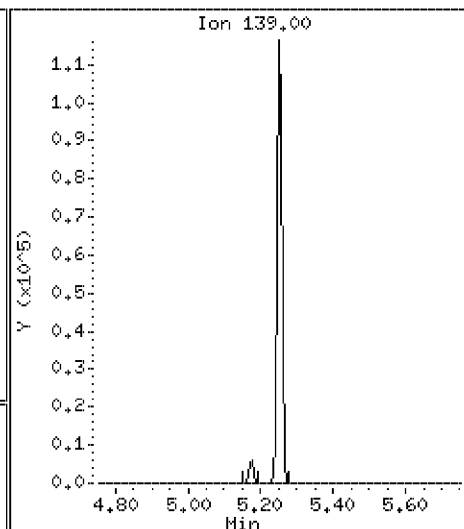
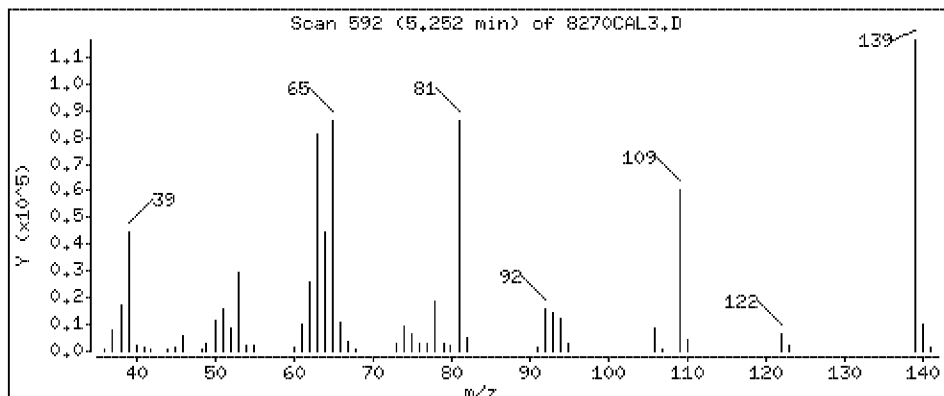
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

35 2-Nitrophenol

Concentration: 20.0 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

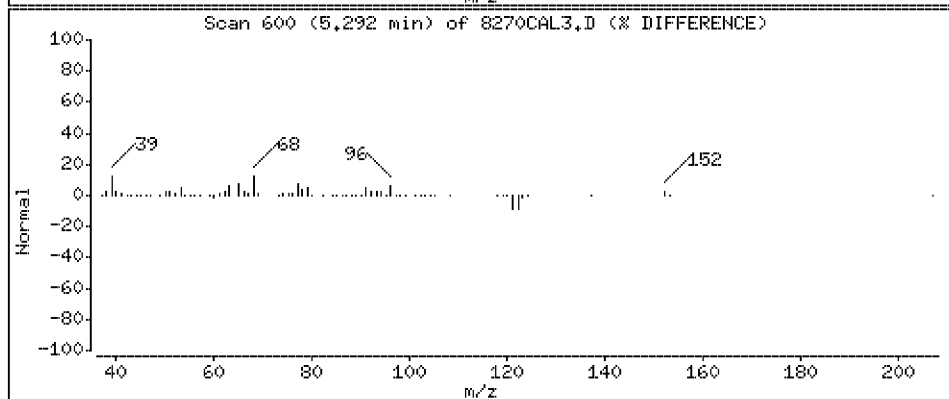
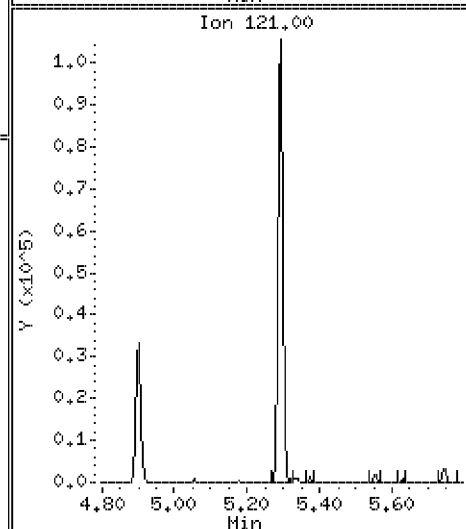
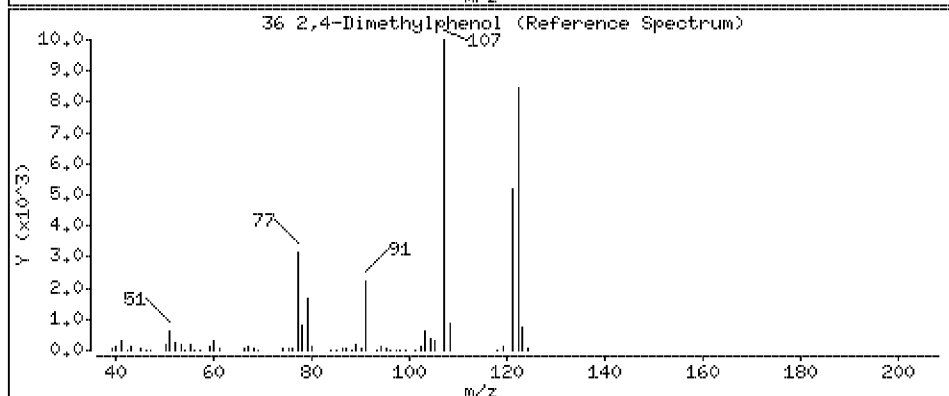
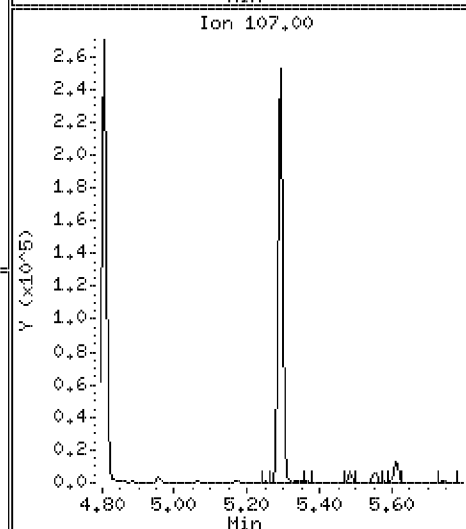
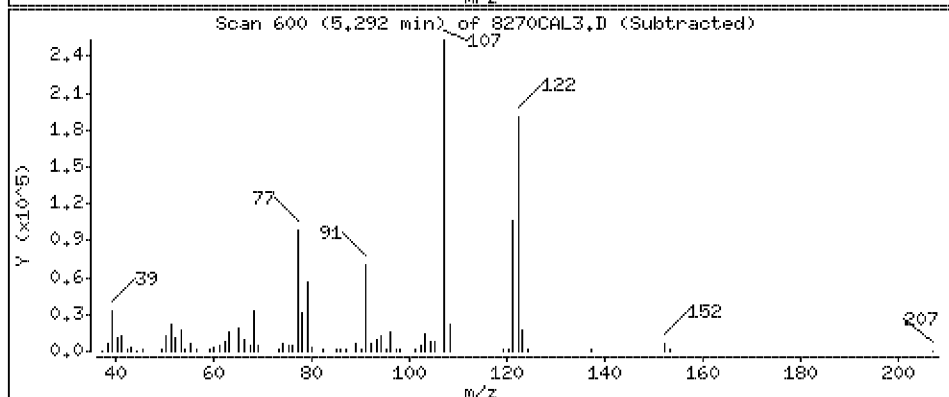
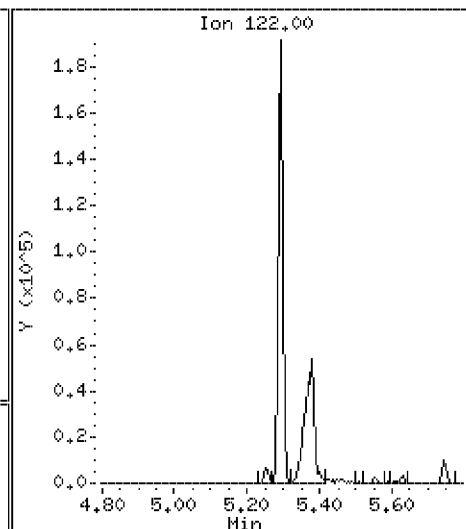
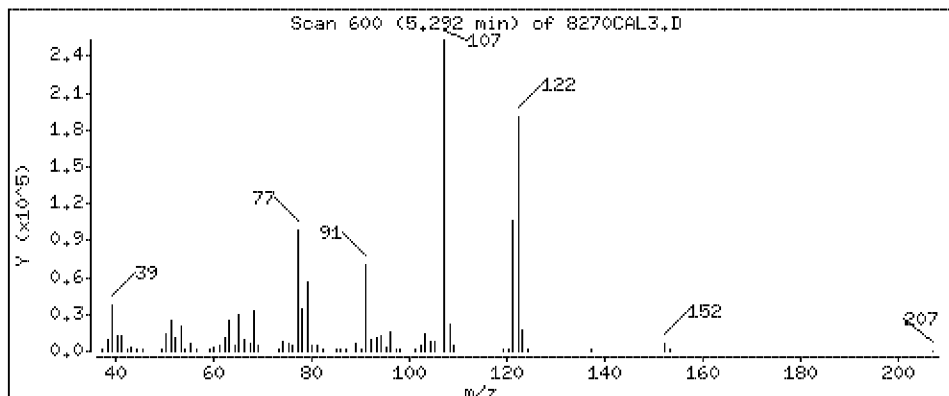
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

36 2,4-Dimethylphenol

Concentration: 19.7 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

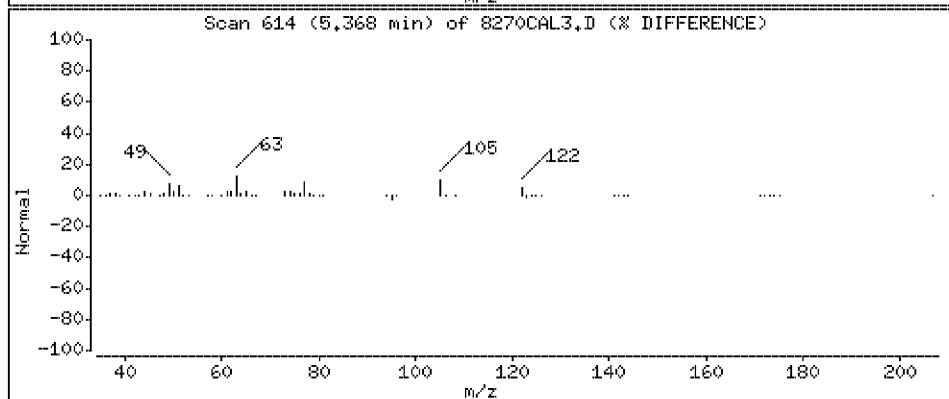
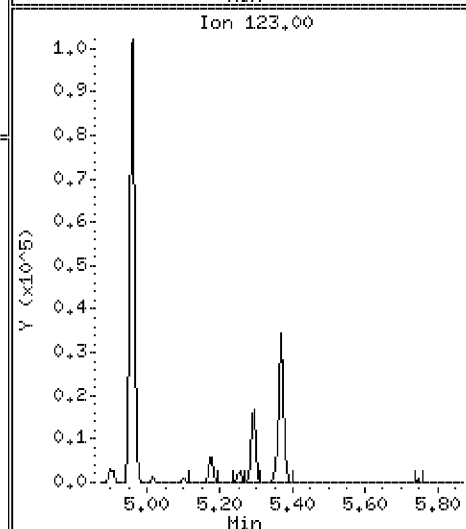
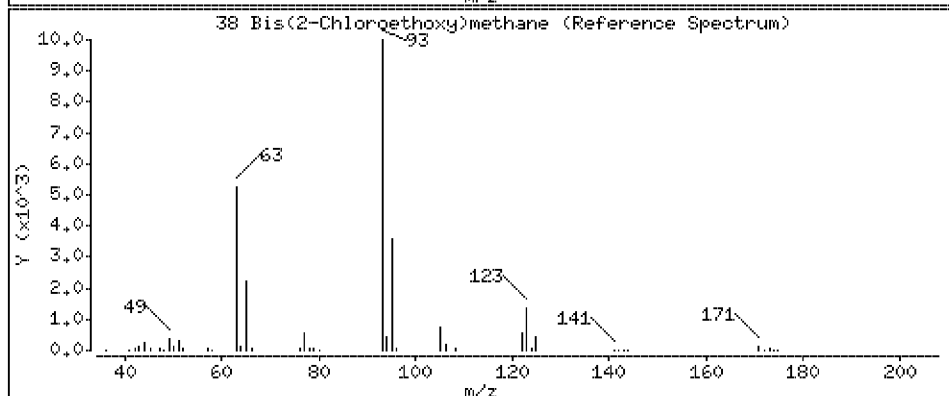
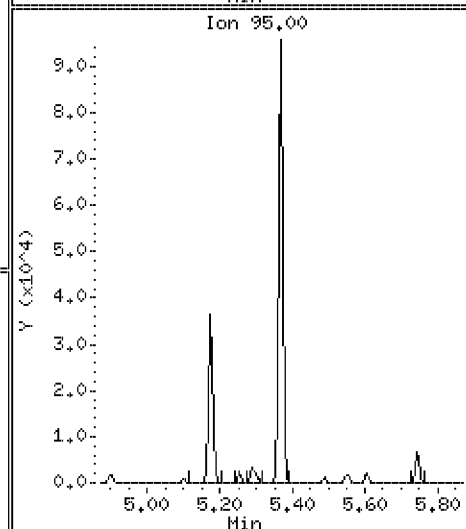
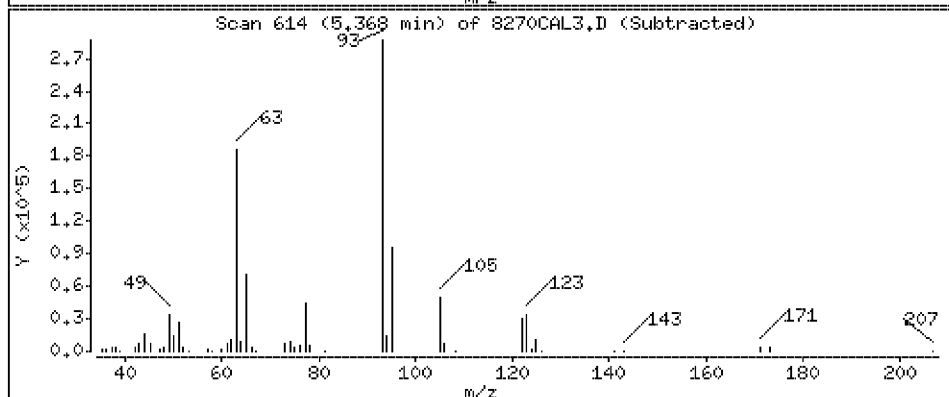
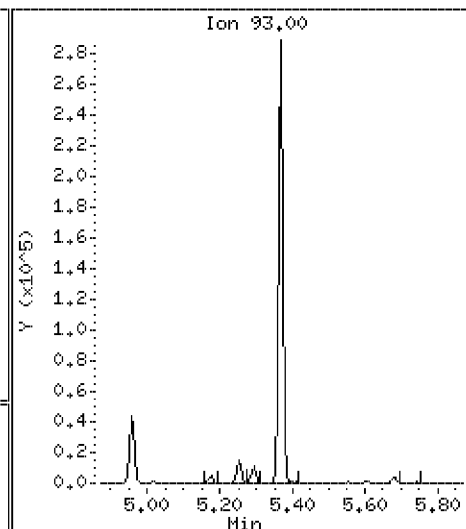
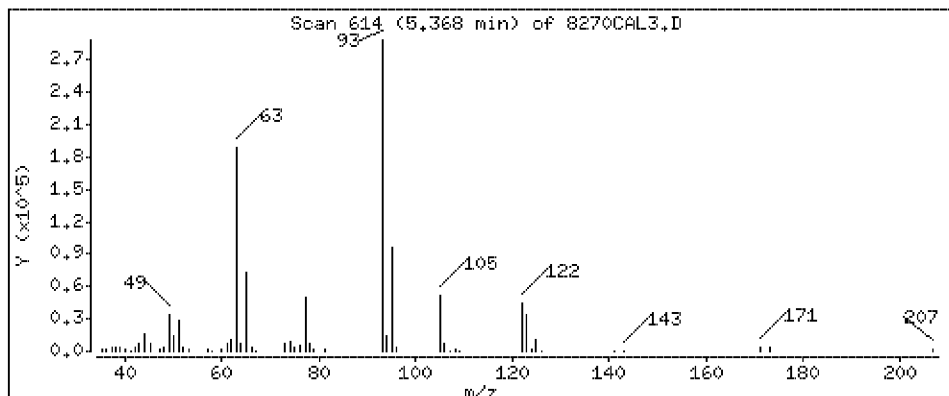
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

38 Bis(2-Chloroethoxy)methane

Concentration: 19.7 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

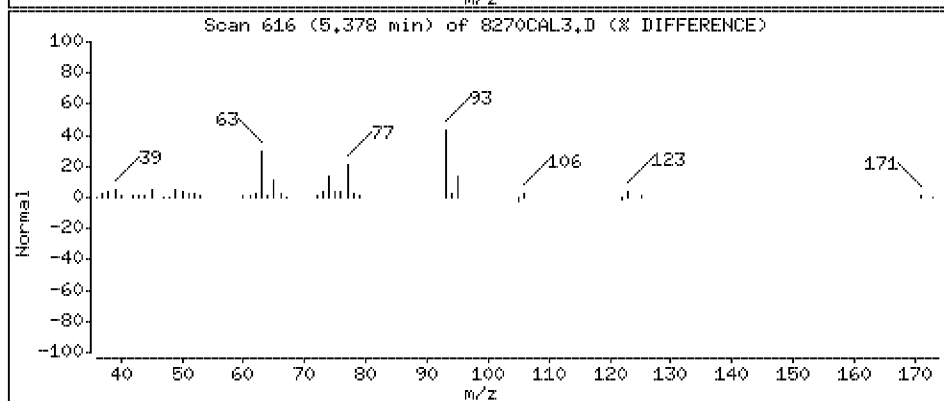
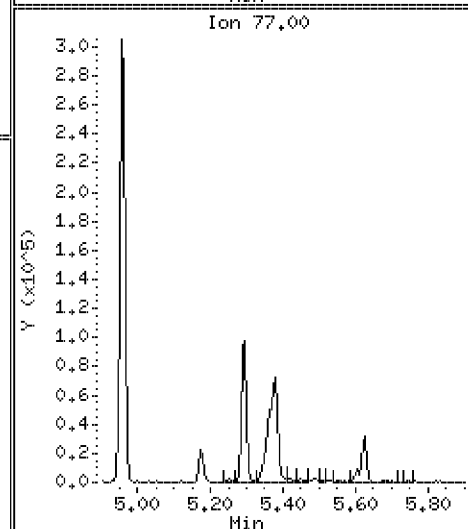
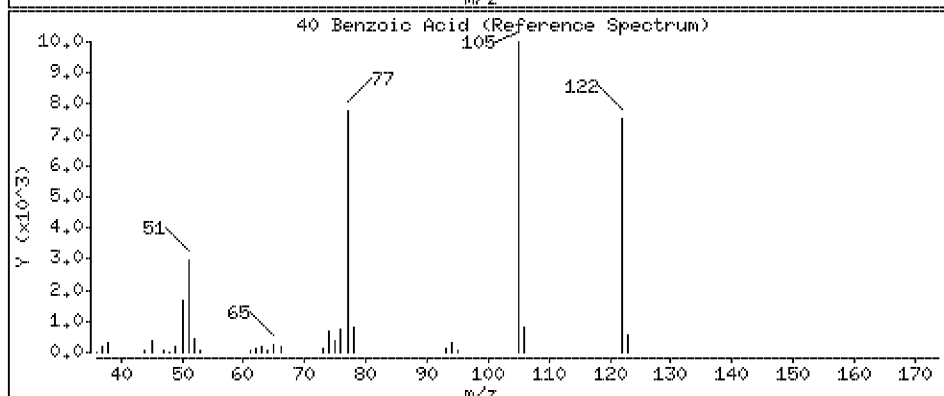
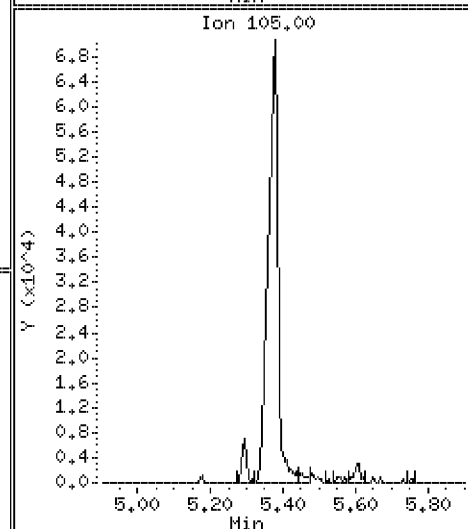
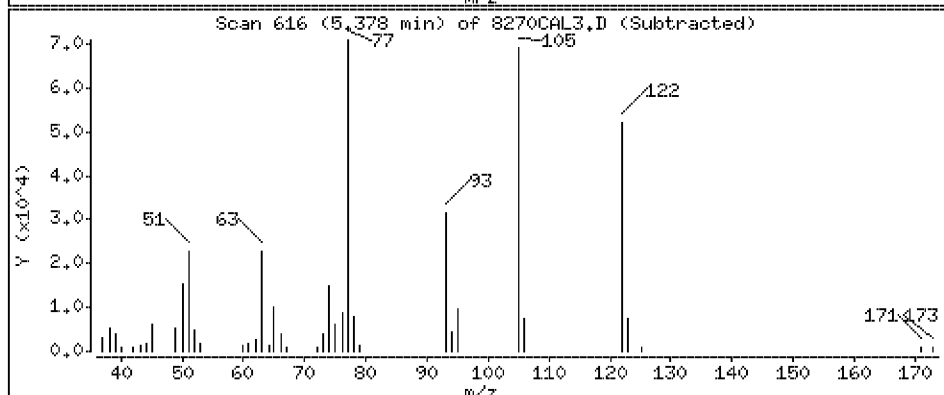
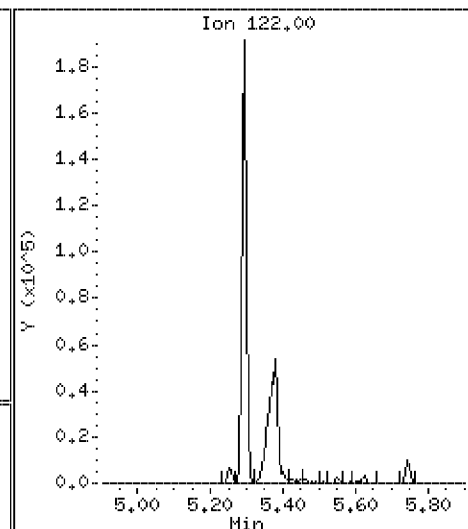
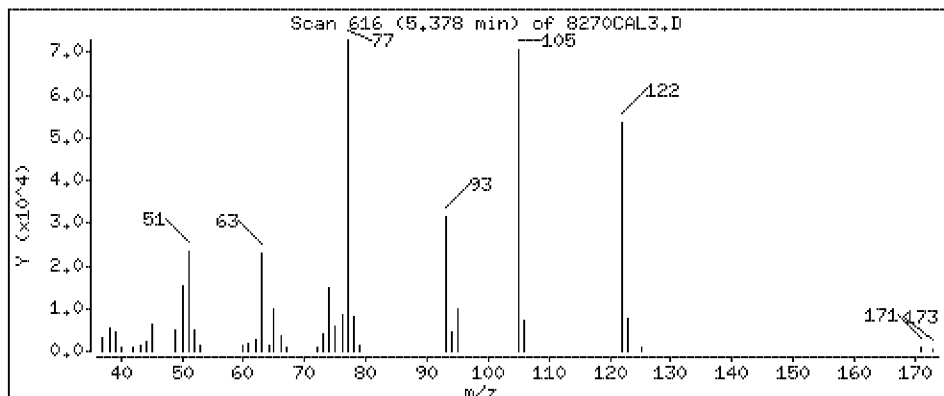
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

40 Benzoic Acid

Concentration: 19.8 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

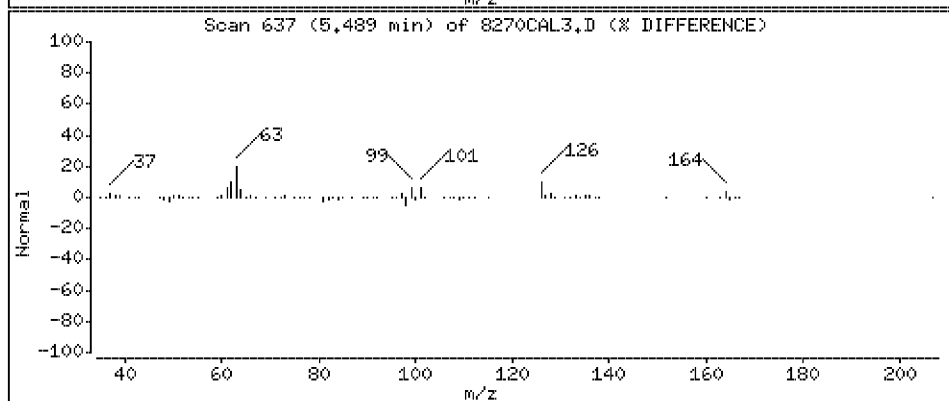
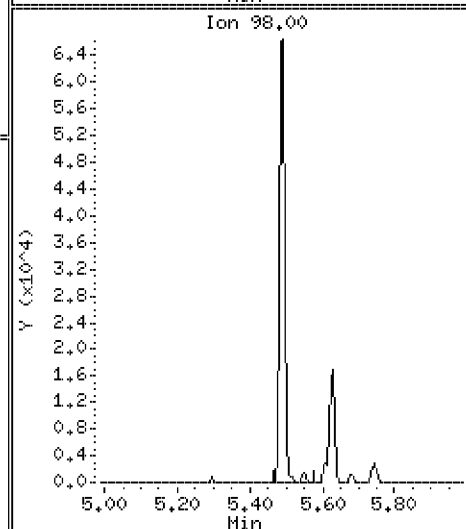
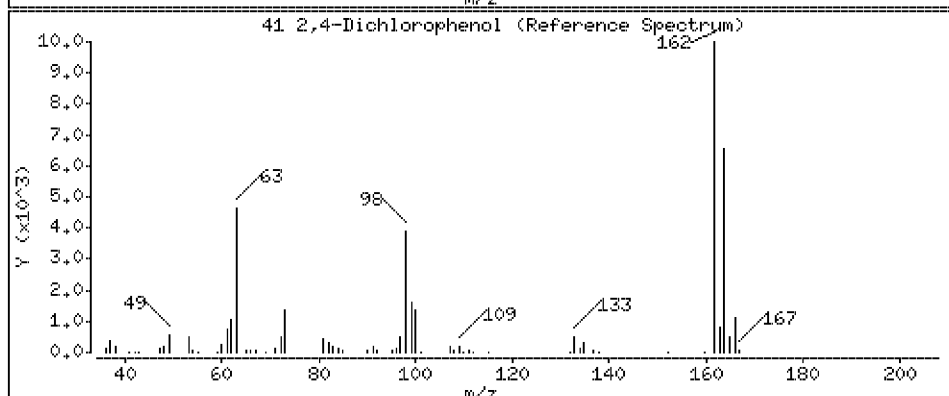
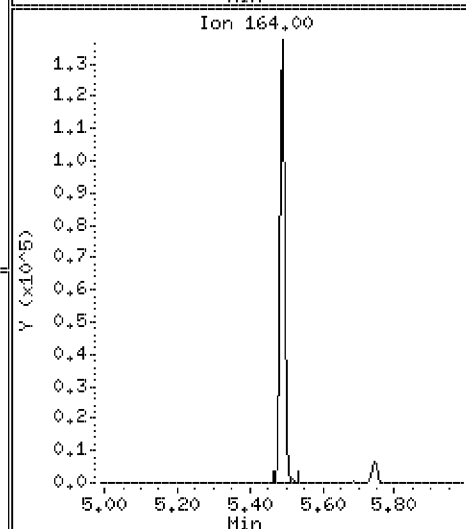
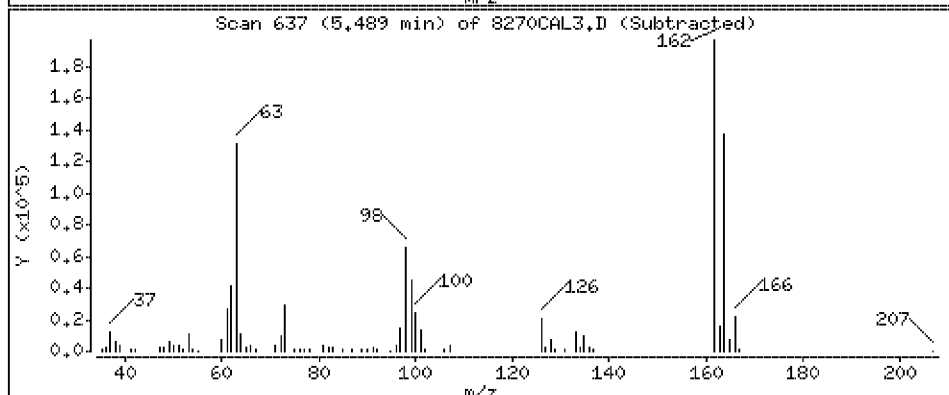
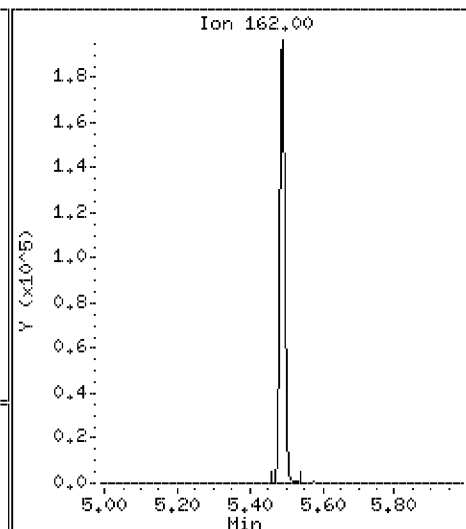
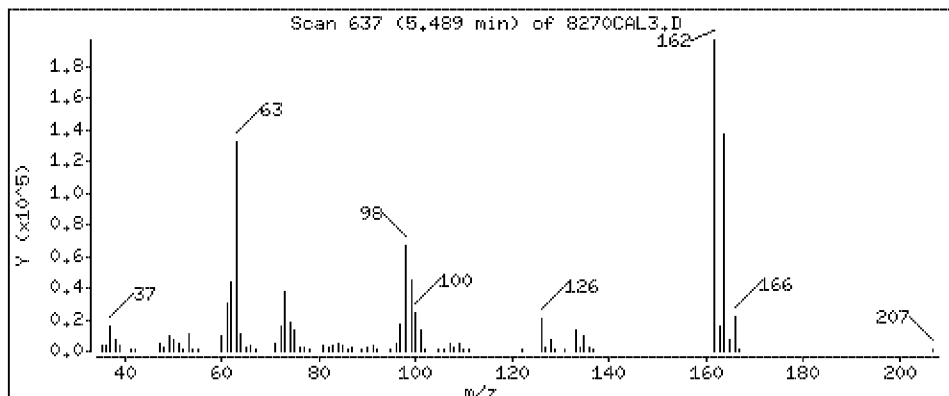
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

41 2,4-Dichlorophenol

Concentration: 19.6 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

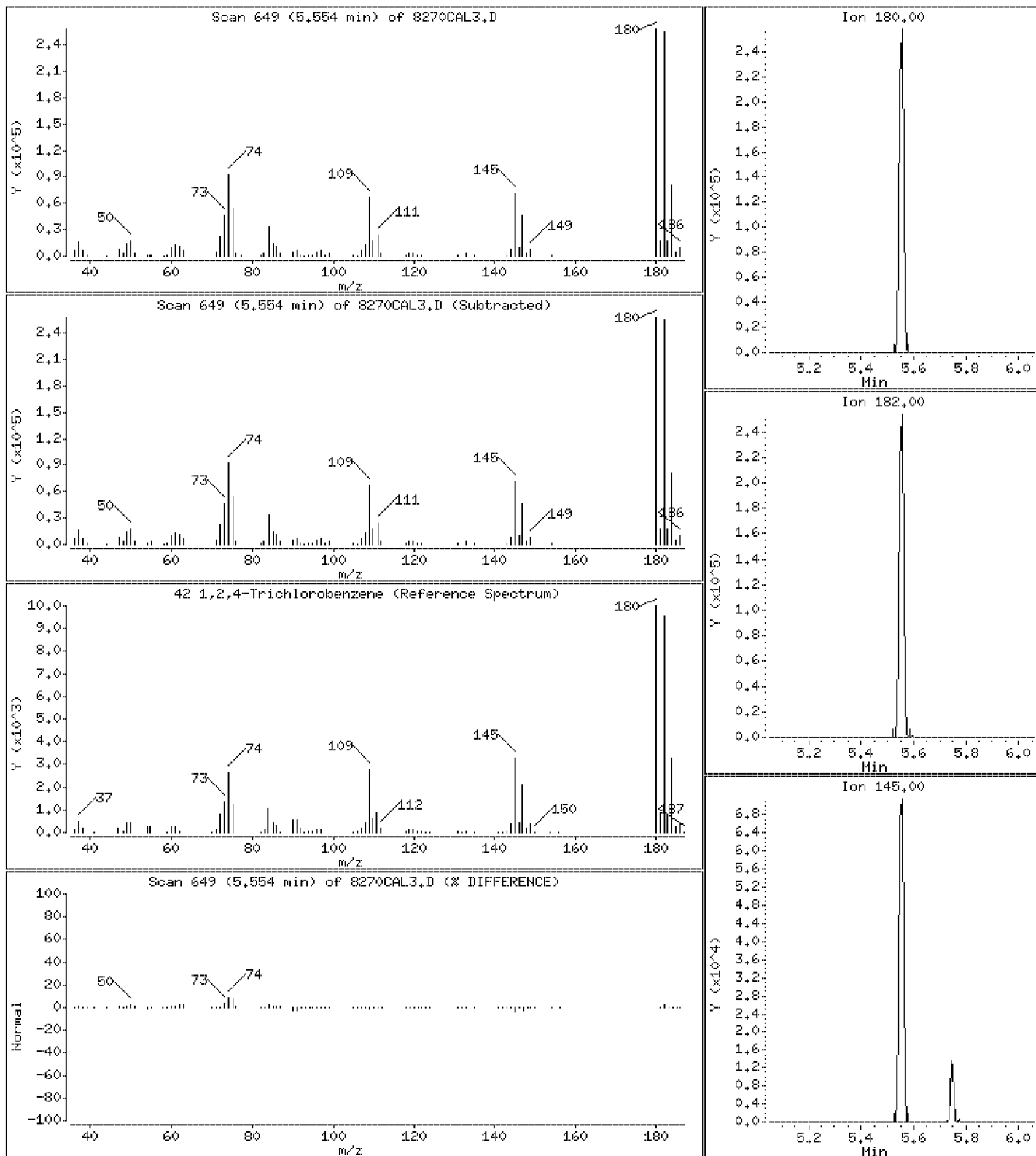
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

42 1,2,4-Trichlorobenzene

Concentration: 19.2 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

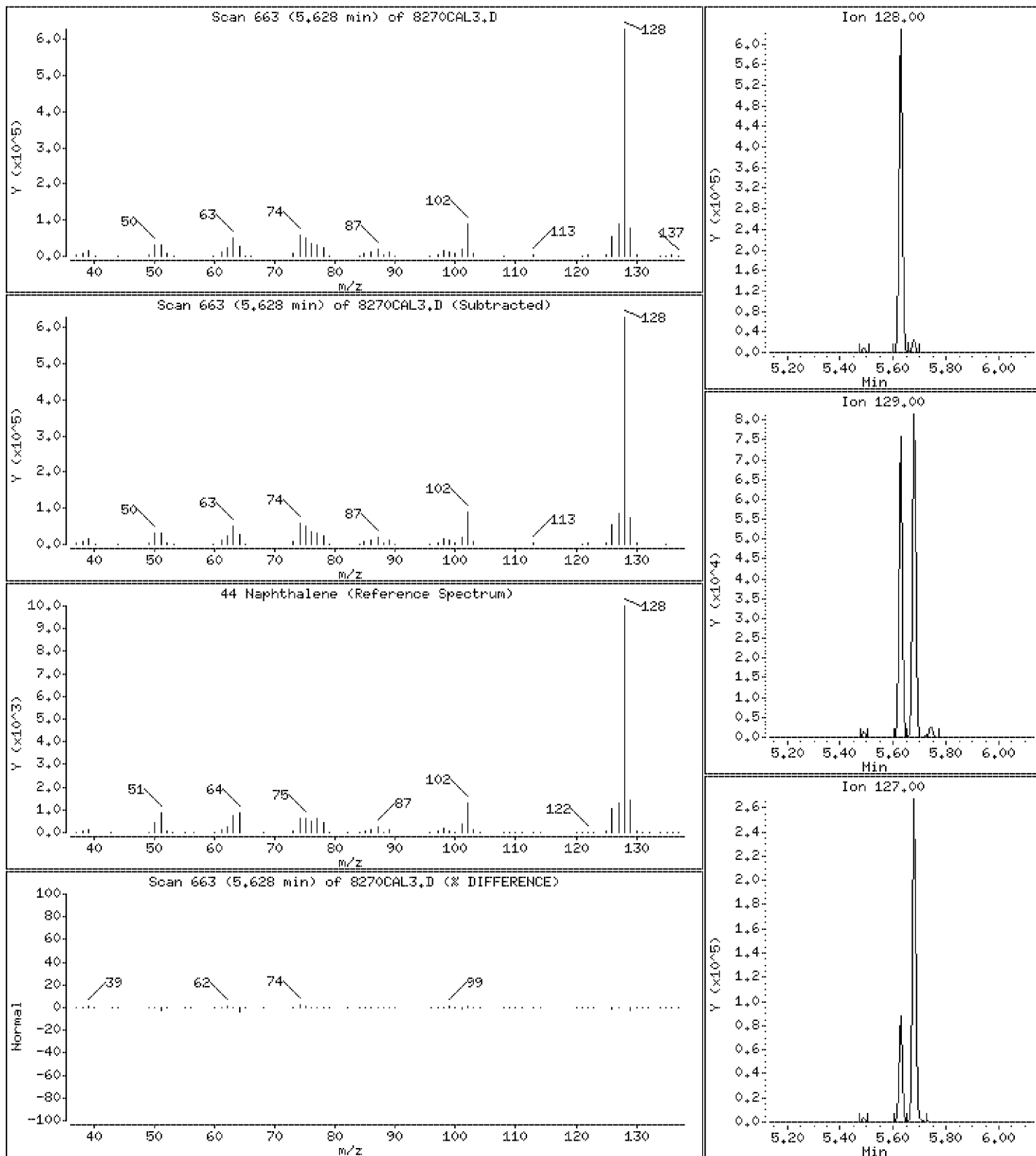
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

44 Naphthalene

Concentration: 20.0 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

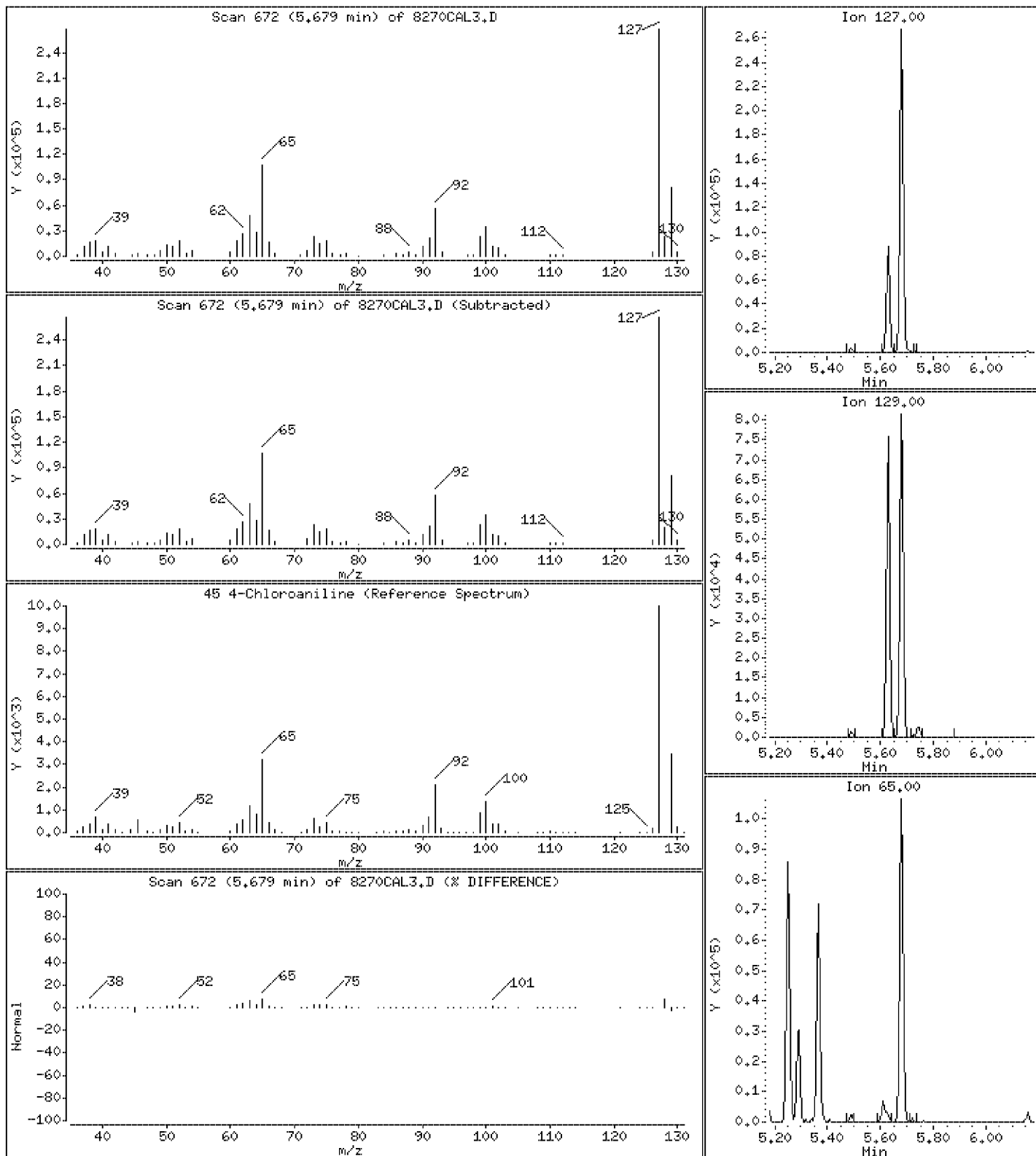
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

45 4-Chloroaniline

Concentration: 19.8 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

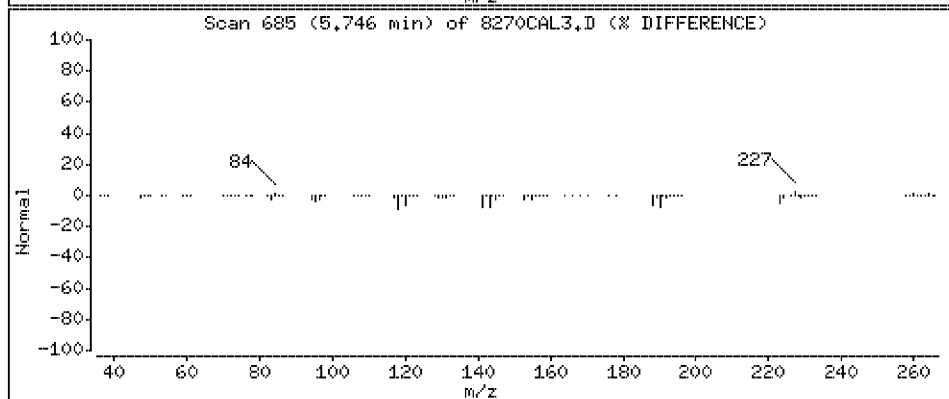
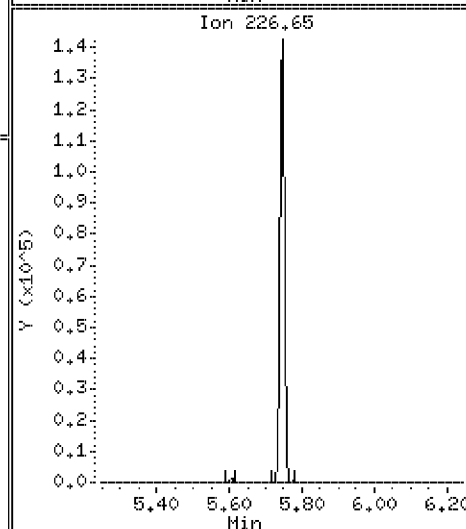
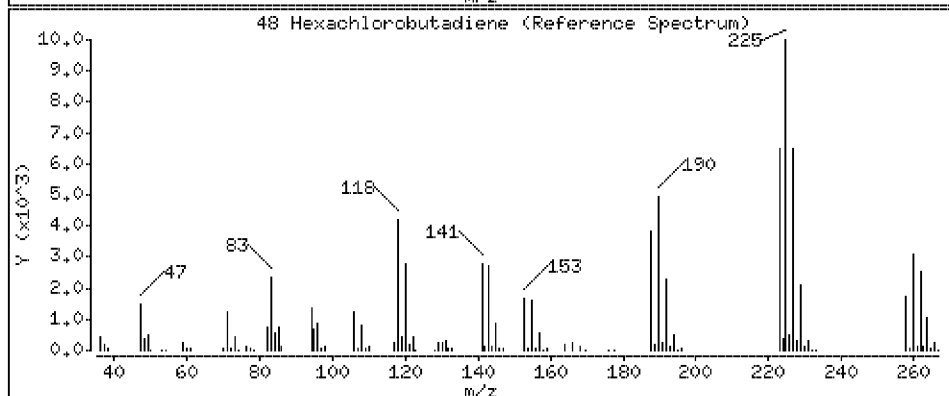
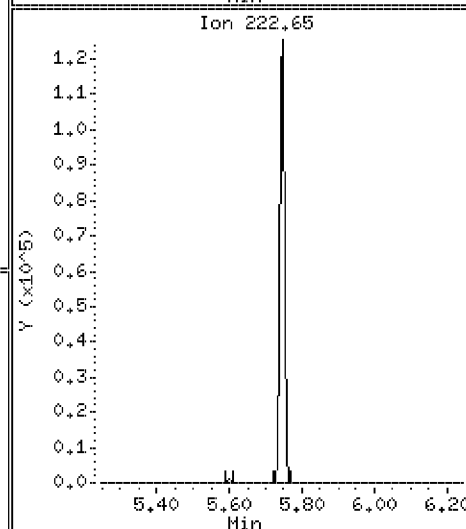
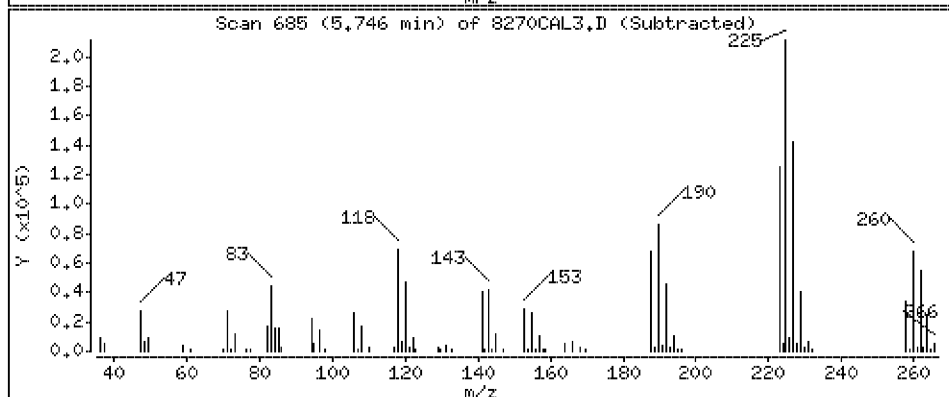
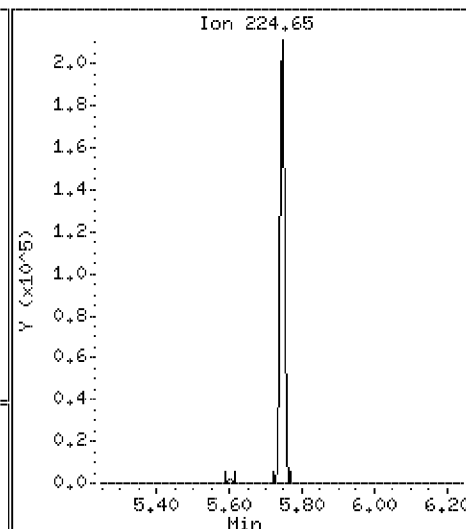
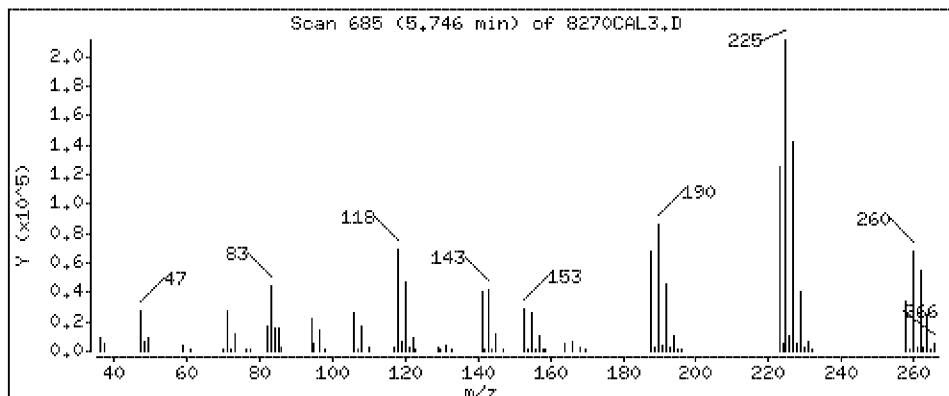
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

48 Hexachlorobutadiene

Concentration: 19.9 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

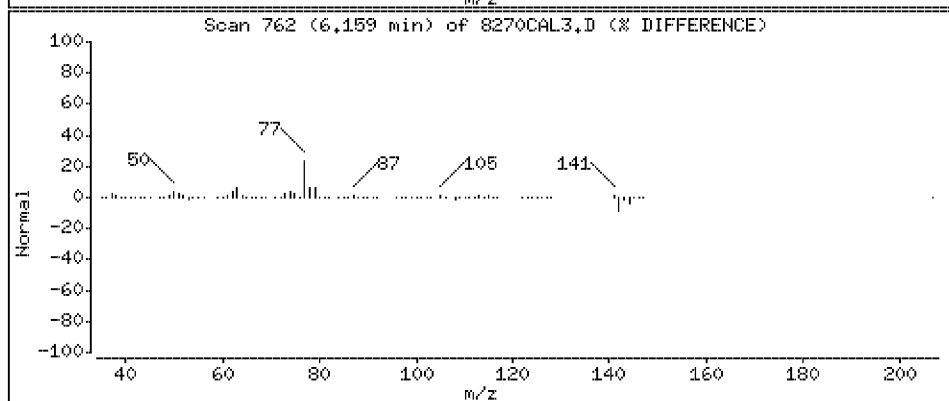
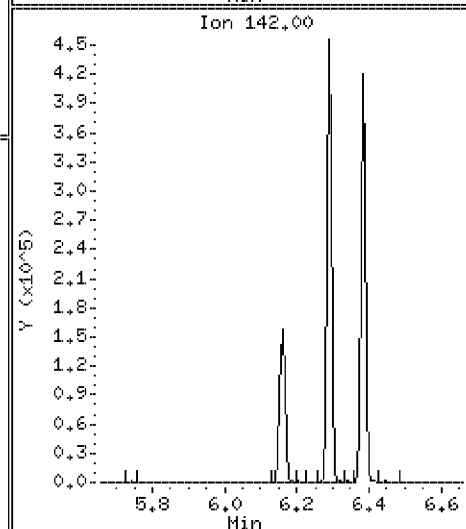
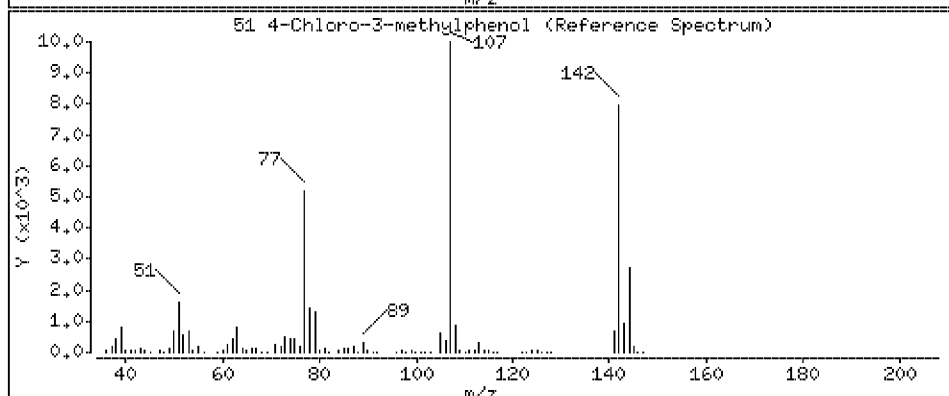
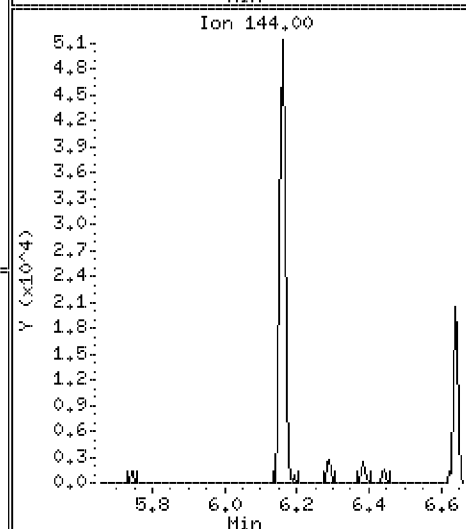
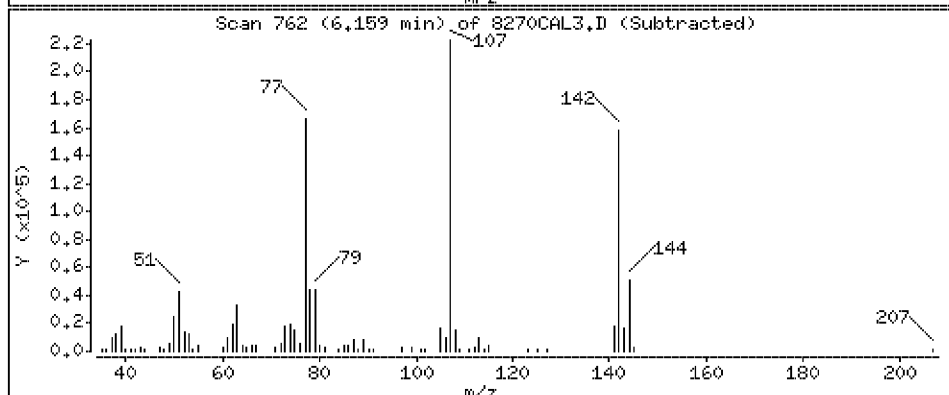
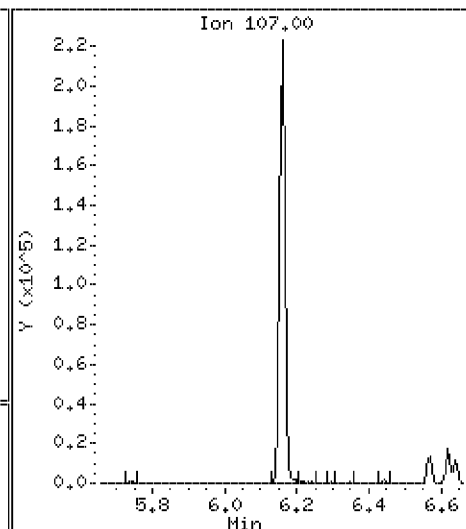
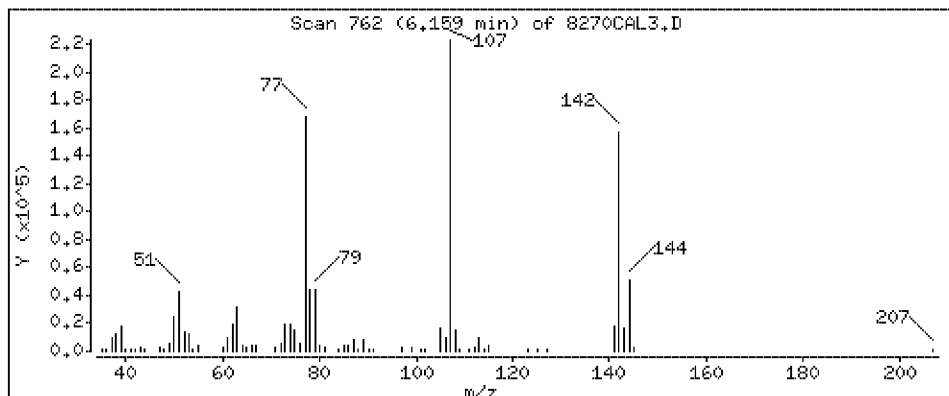
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

51 4-Chloro-3-methylphenol

Concentration: 19.9 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

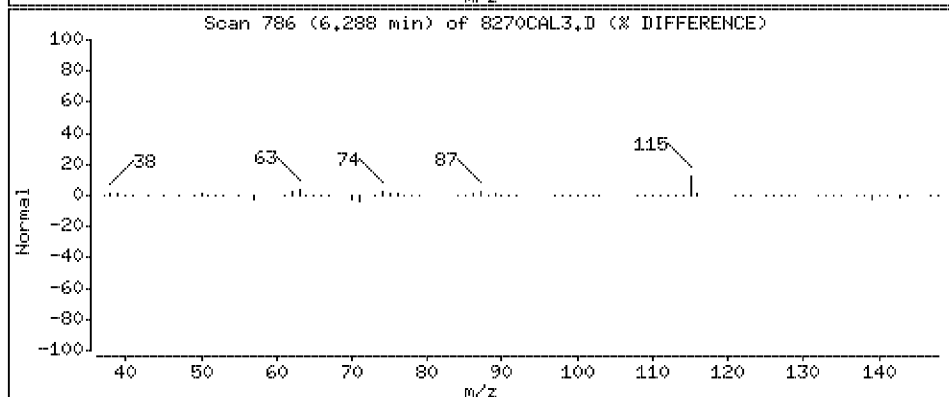
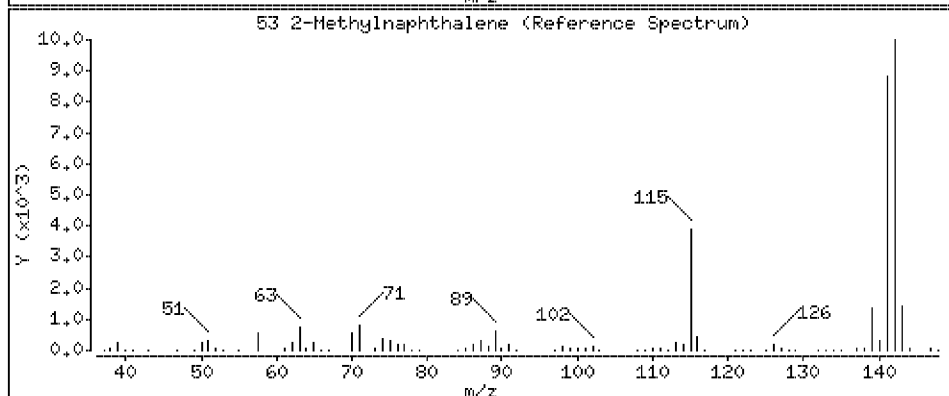
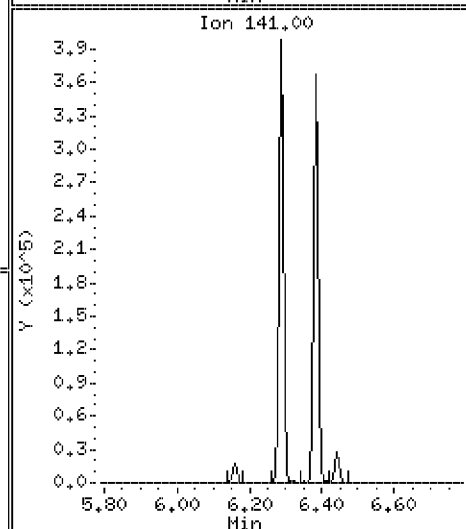
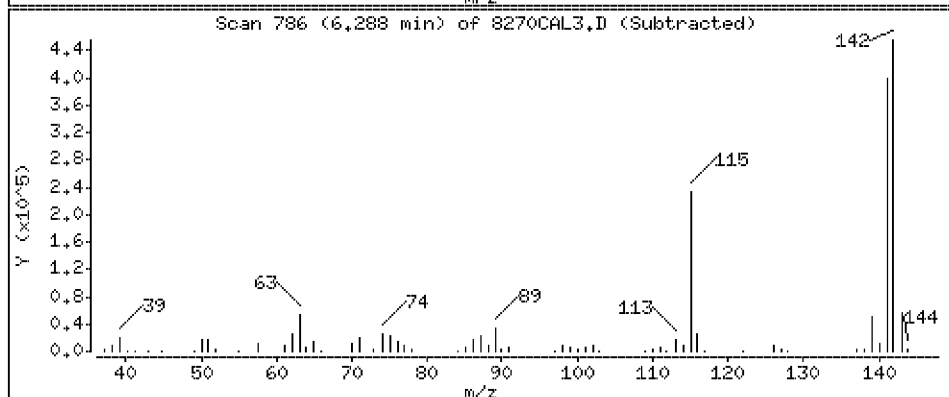
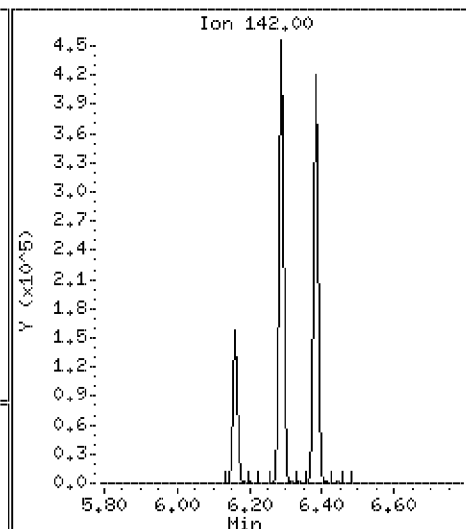
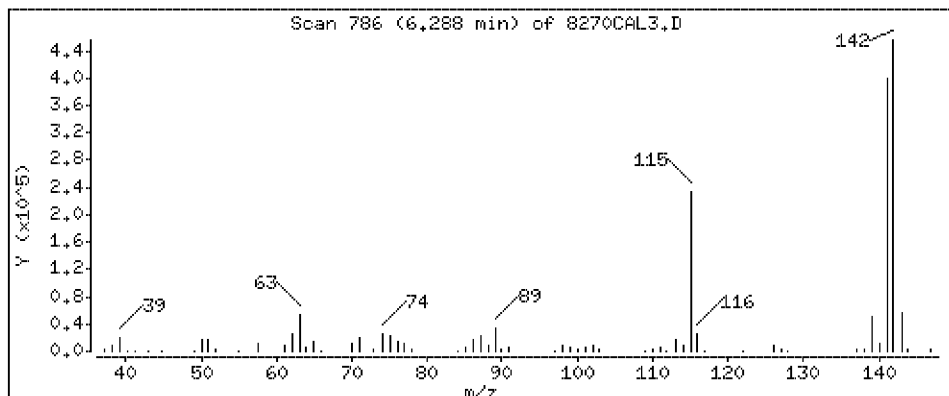
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

53 2-Methylnaphthalene

Concentration: 19.5 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

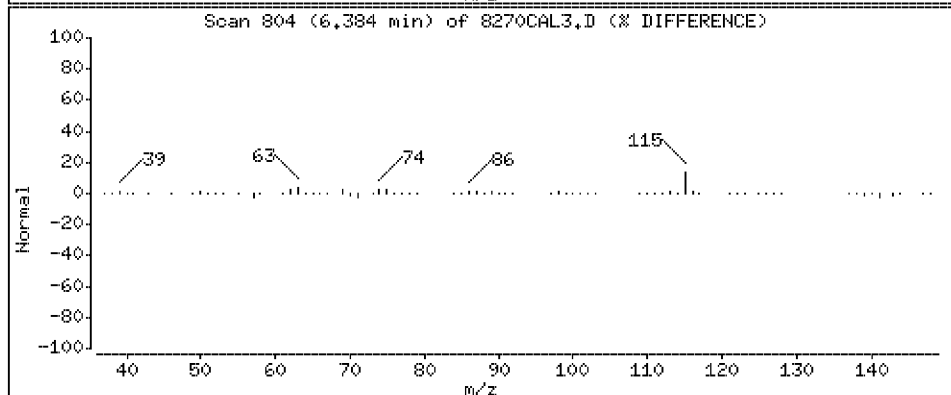
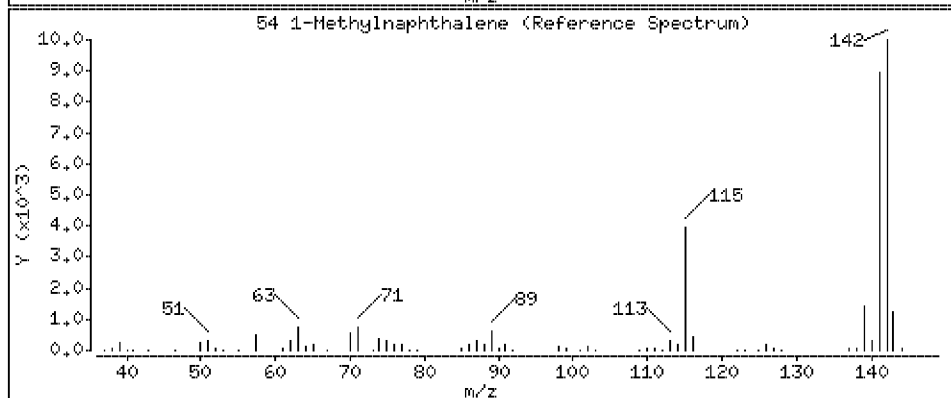
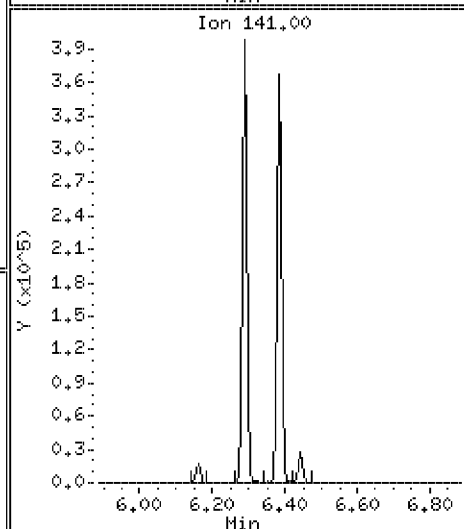
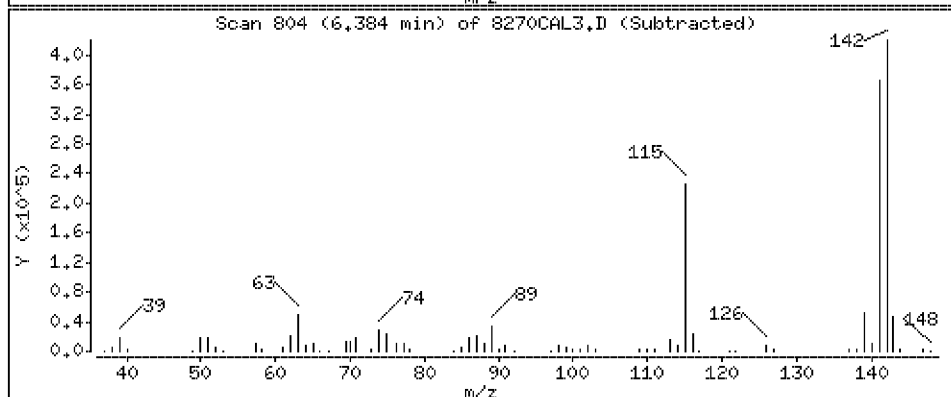
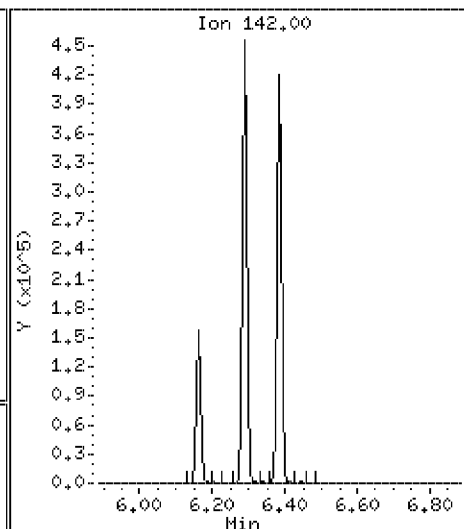
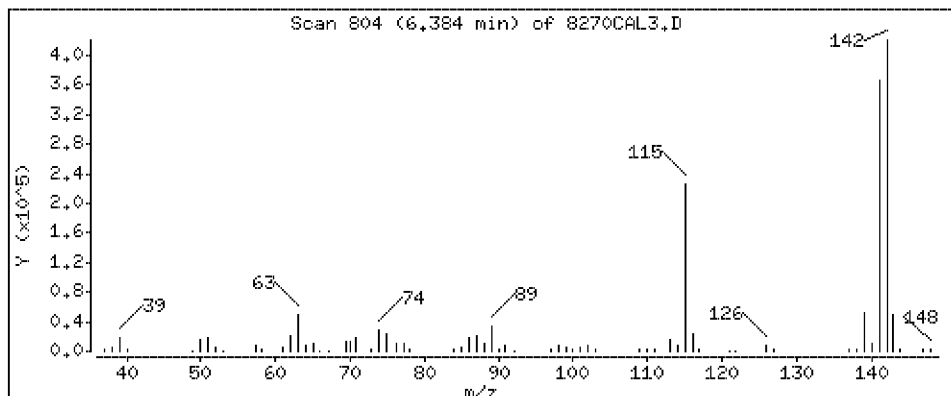
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

54 1-Methylnaphthalene

Concentration: 19.9 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

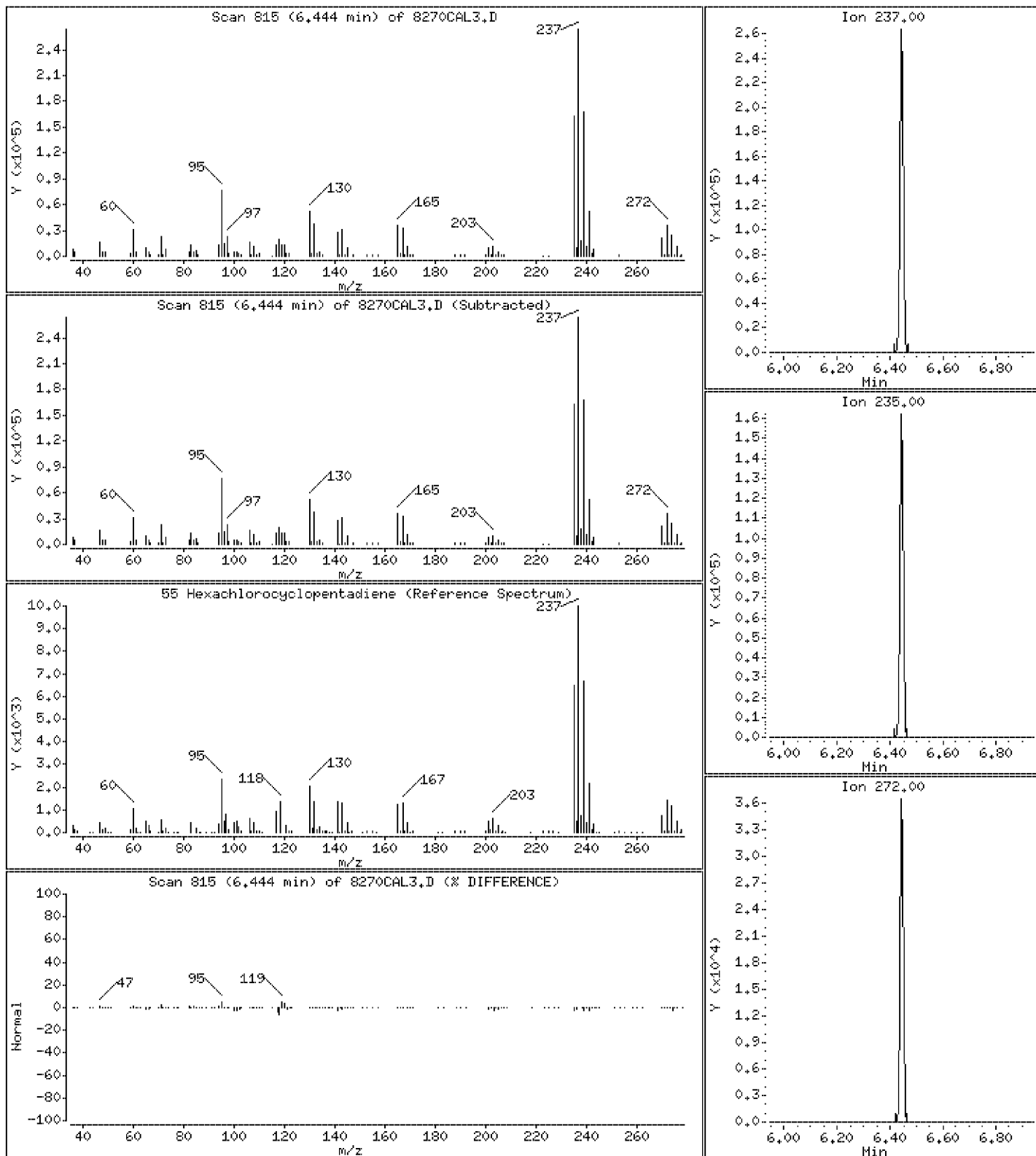
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

55 Hexachlorocyclopentadiene

Concentration: 19.8 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

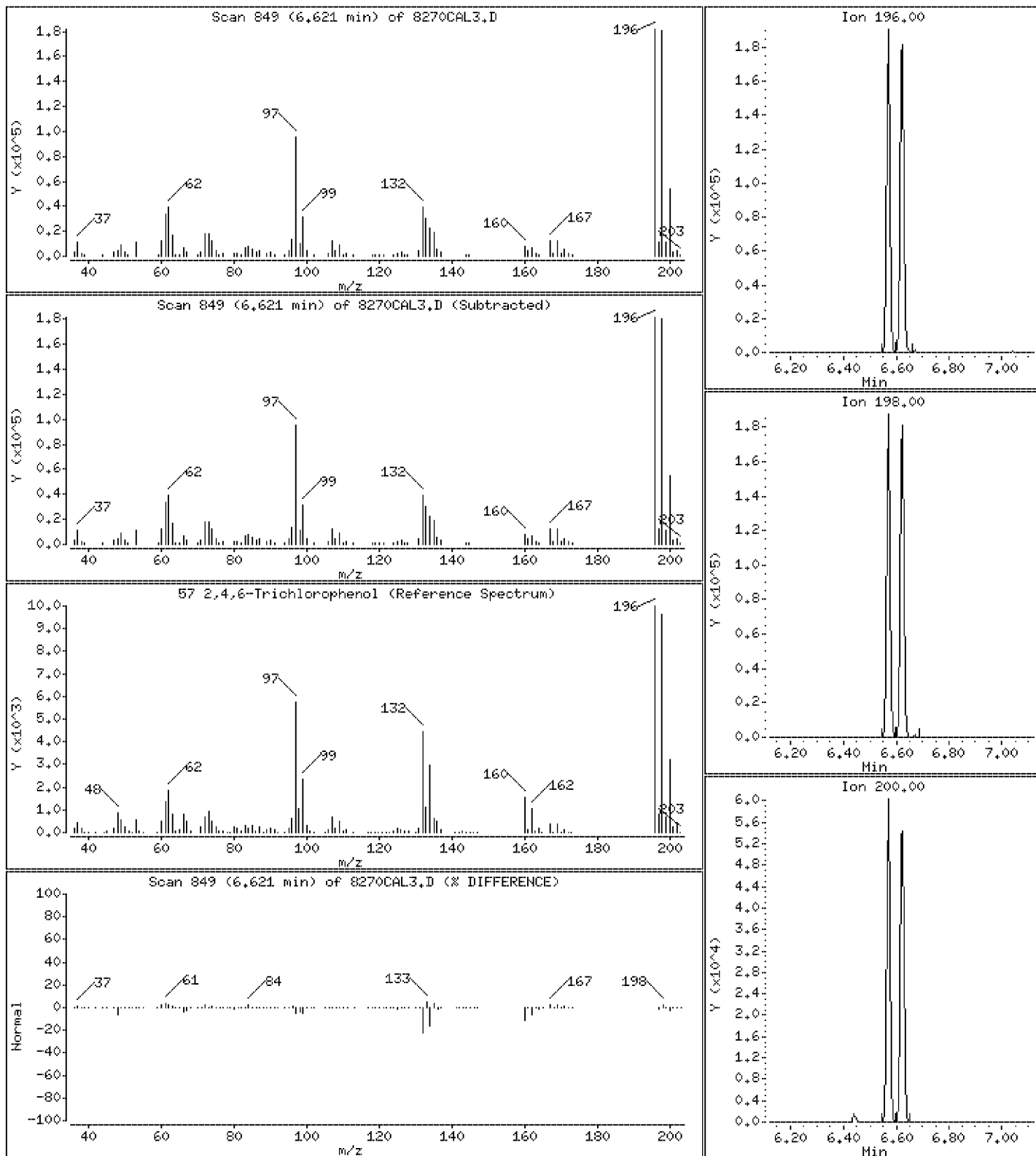
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

57 2,4,6-Trichlorophenol

Concentration: 19.5 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

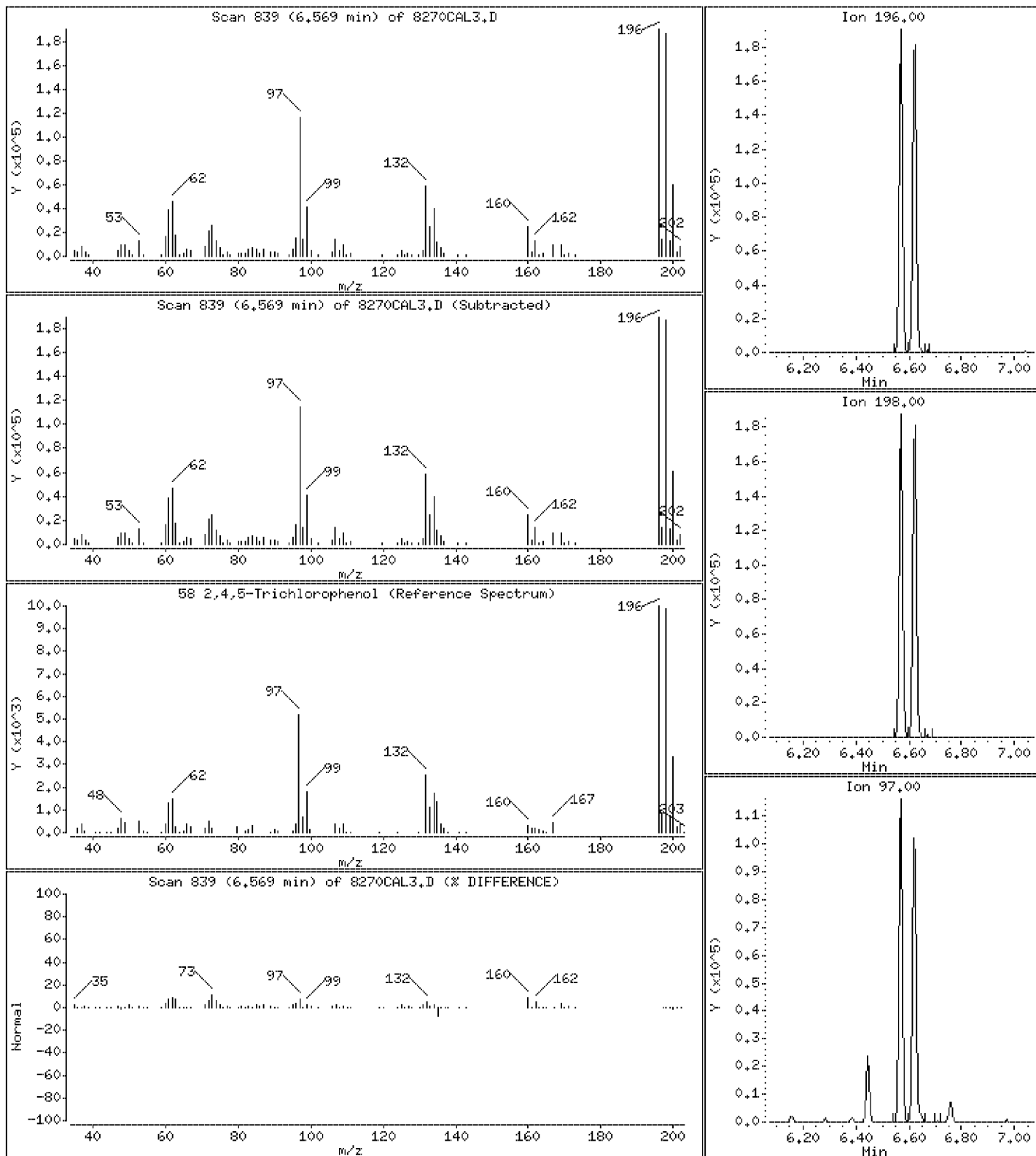
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

58 2,4,5-Trichlorophenol

Concentration: 19.7 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

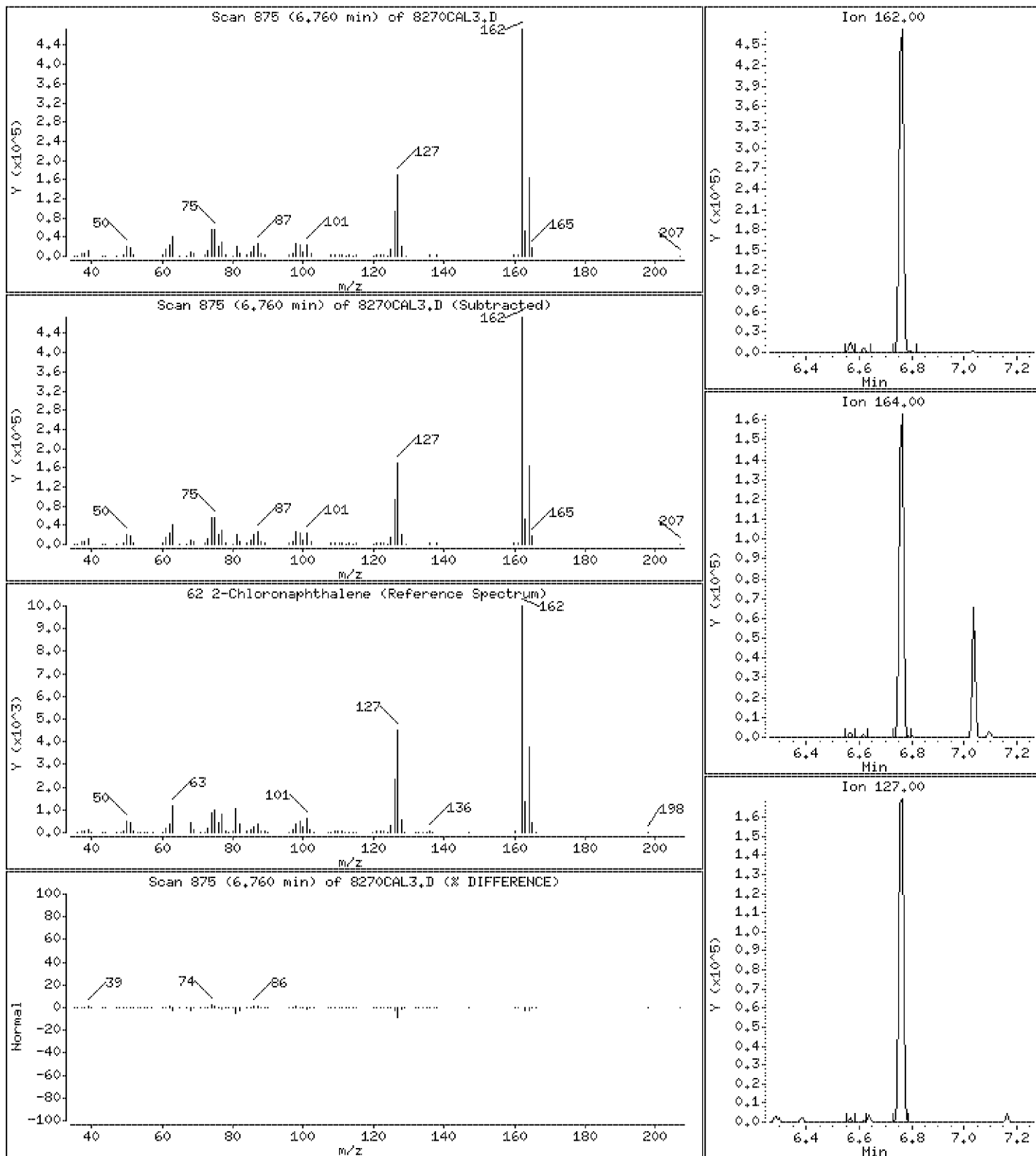
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

62 2-Chloronaphthalene

Concentration: 19.9 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

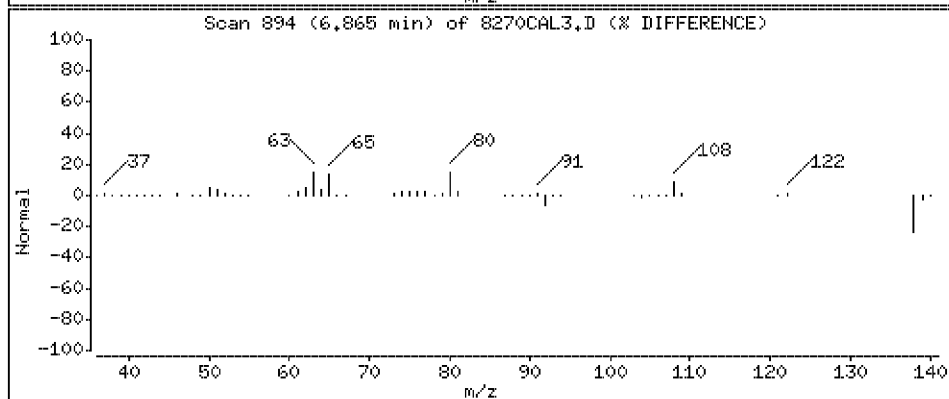
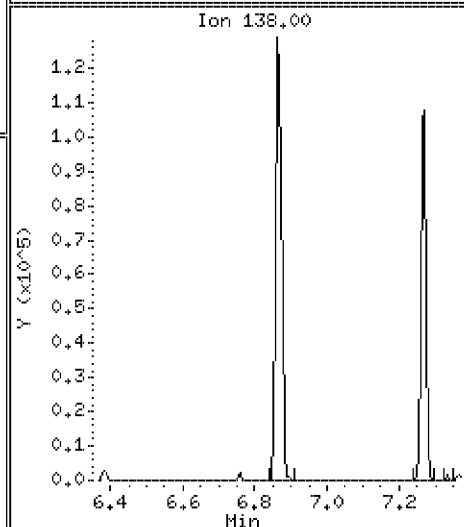
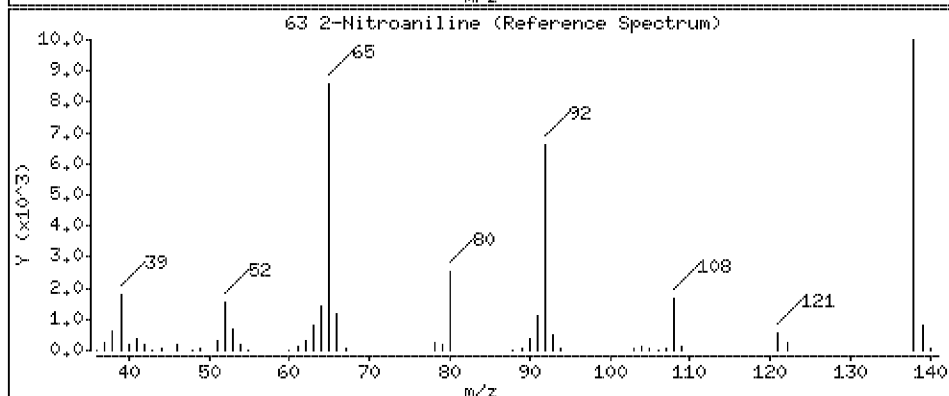
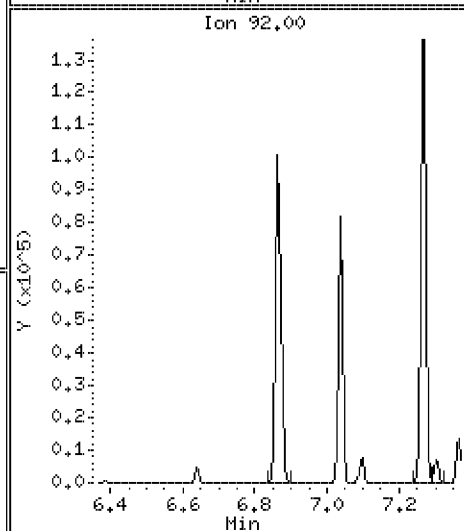
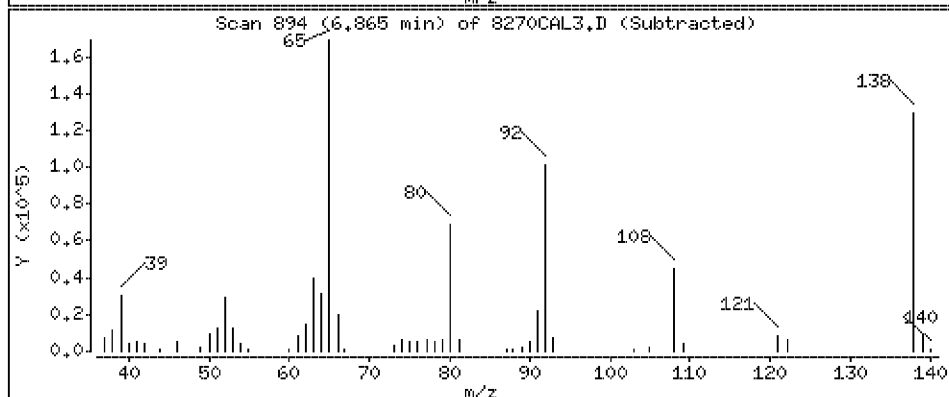
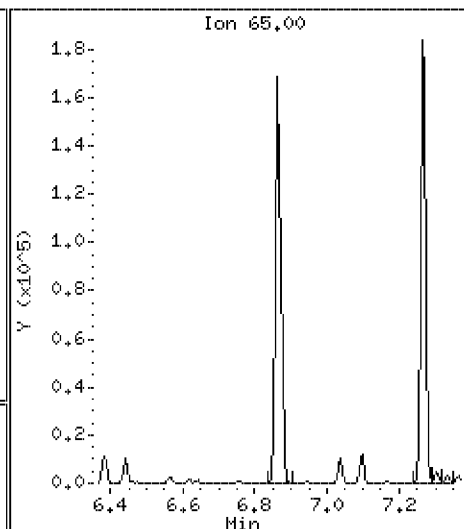
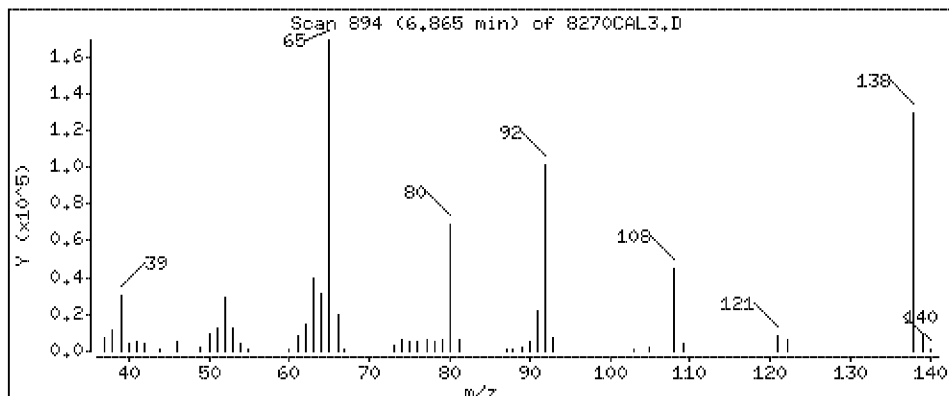
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

63 2-Nitroaniline

Concentration: 20.1 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

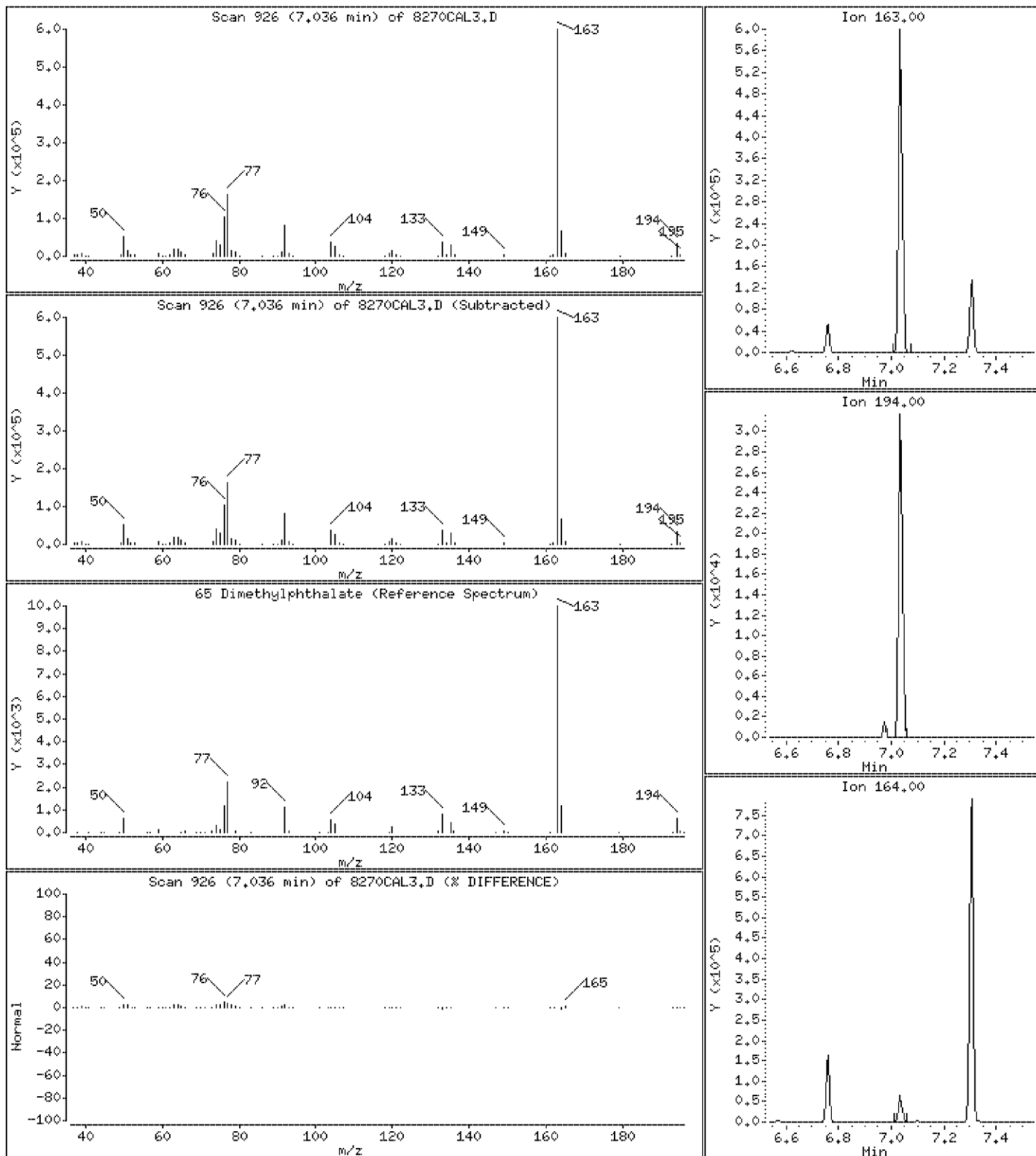
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

65 Dimethylphthalate

Concentration: 20.4 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

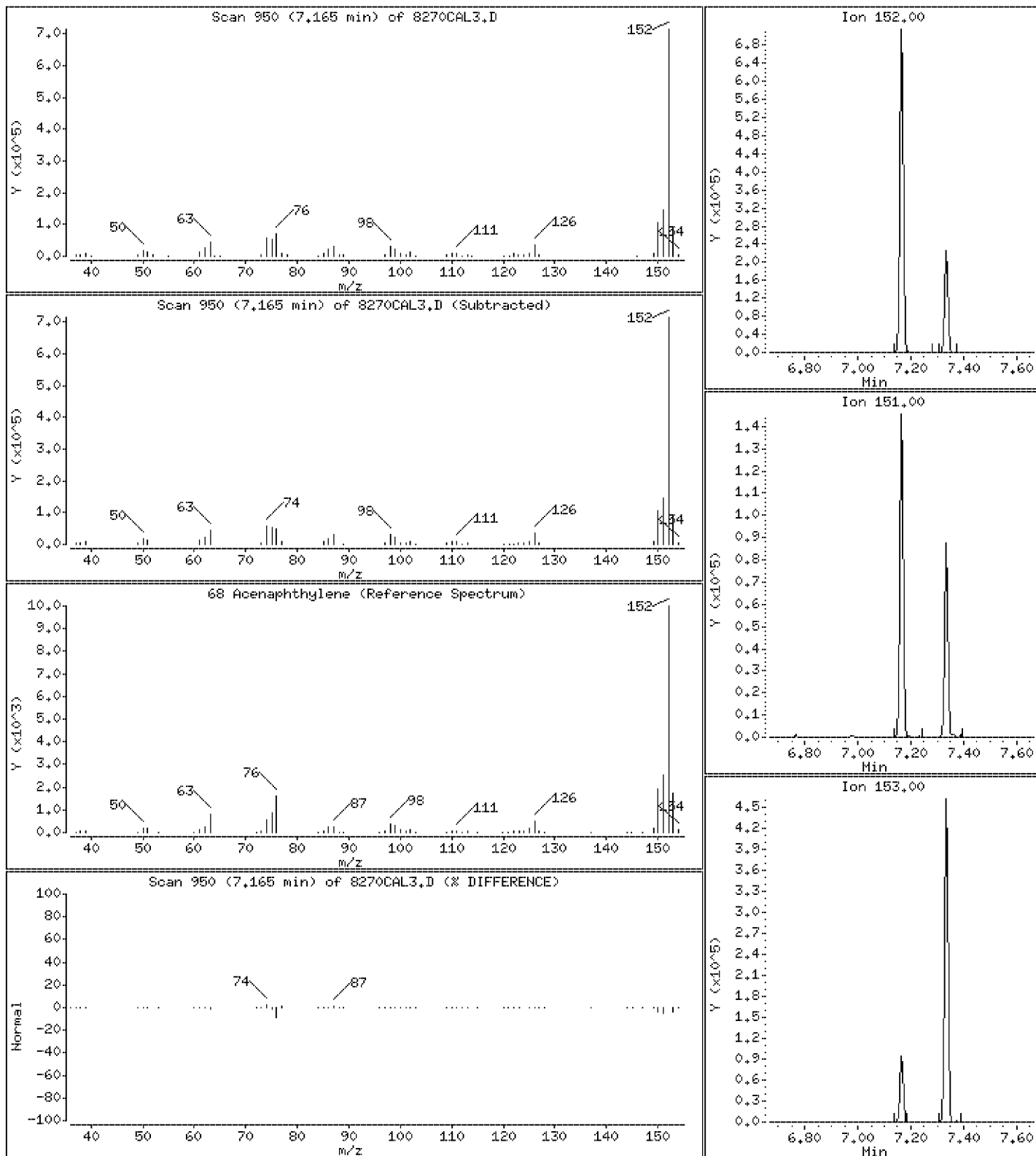
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

68 Acenaphthylene

Concentration: 20.3 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

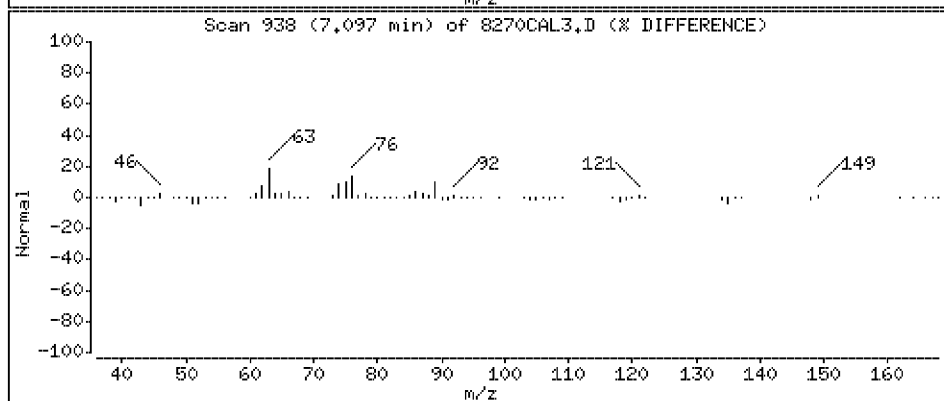
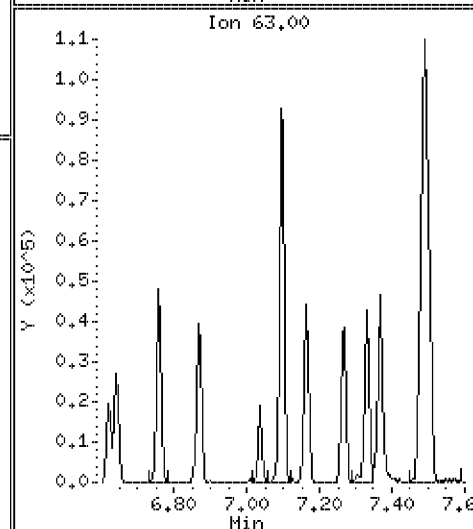
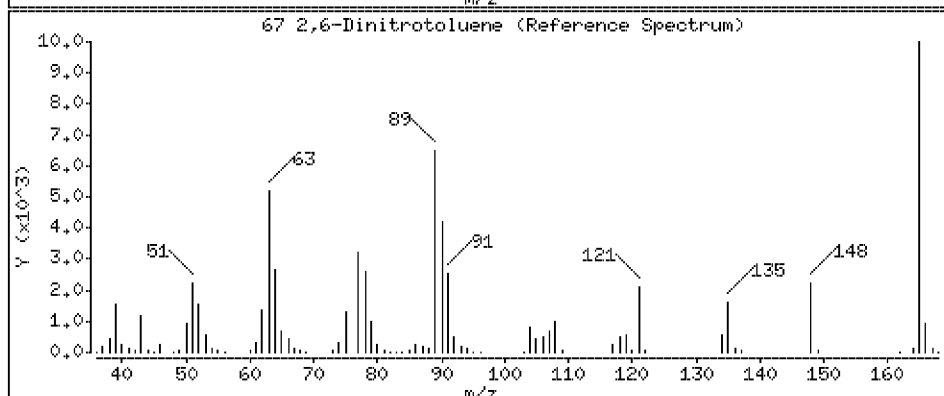
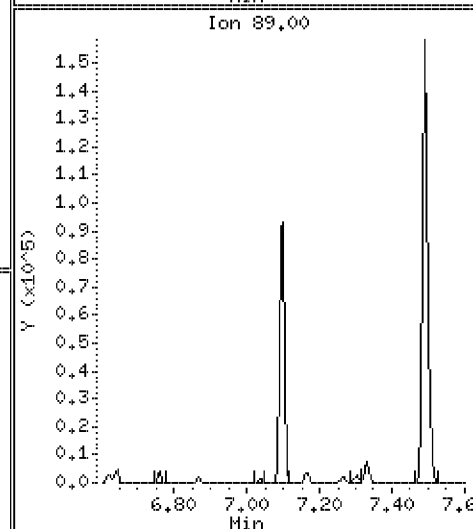
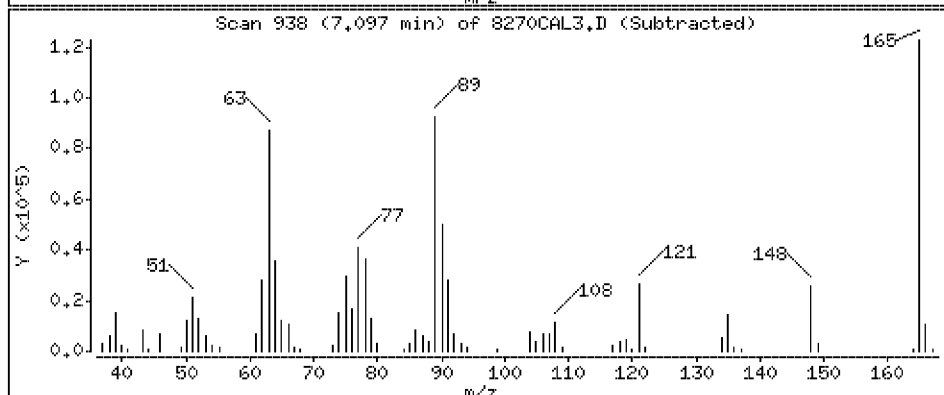
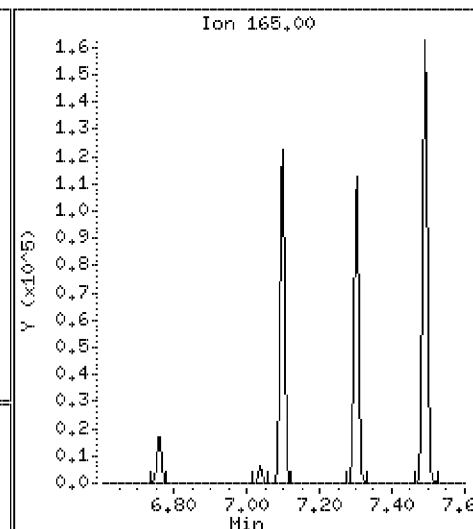
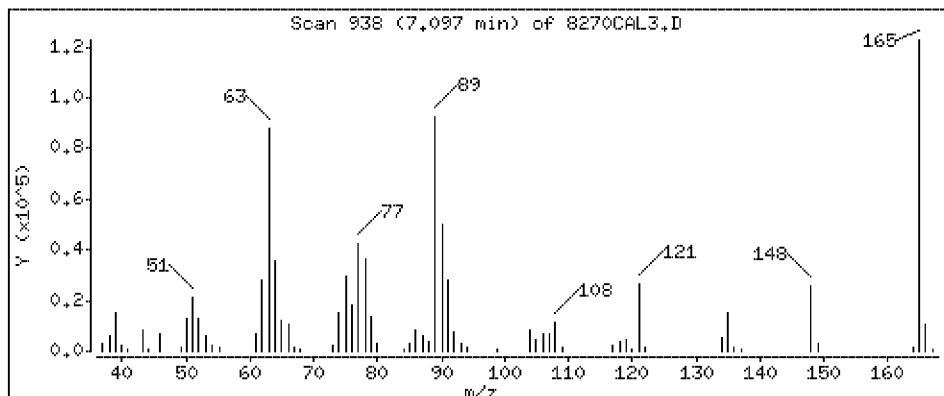
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

67 2,6-Dinitrotoluene

Concentration: 19.7 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

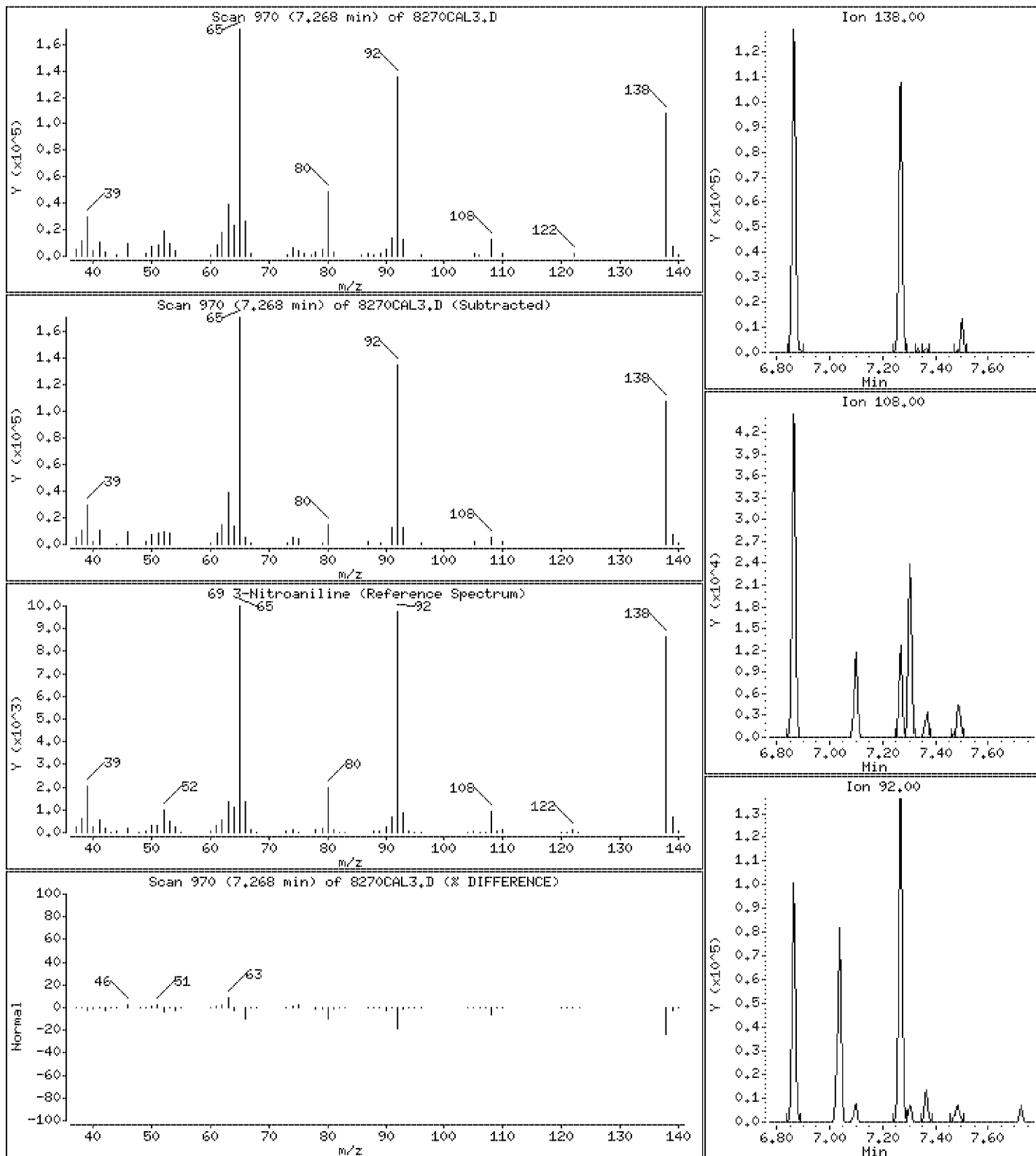
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

69 3-Nitroaniline

Concentration: 20.4 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

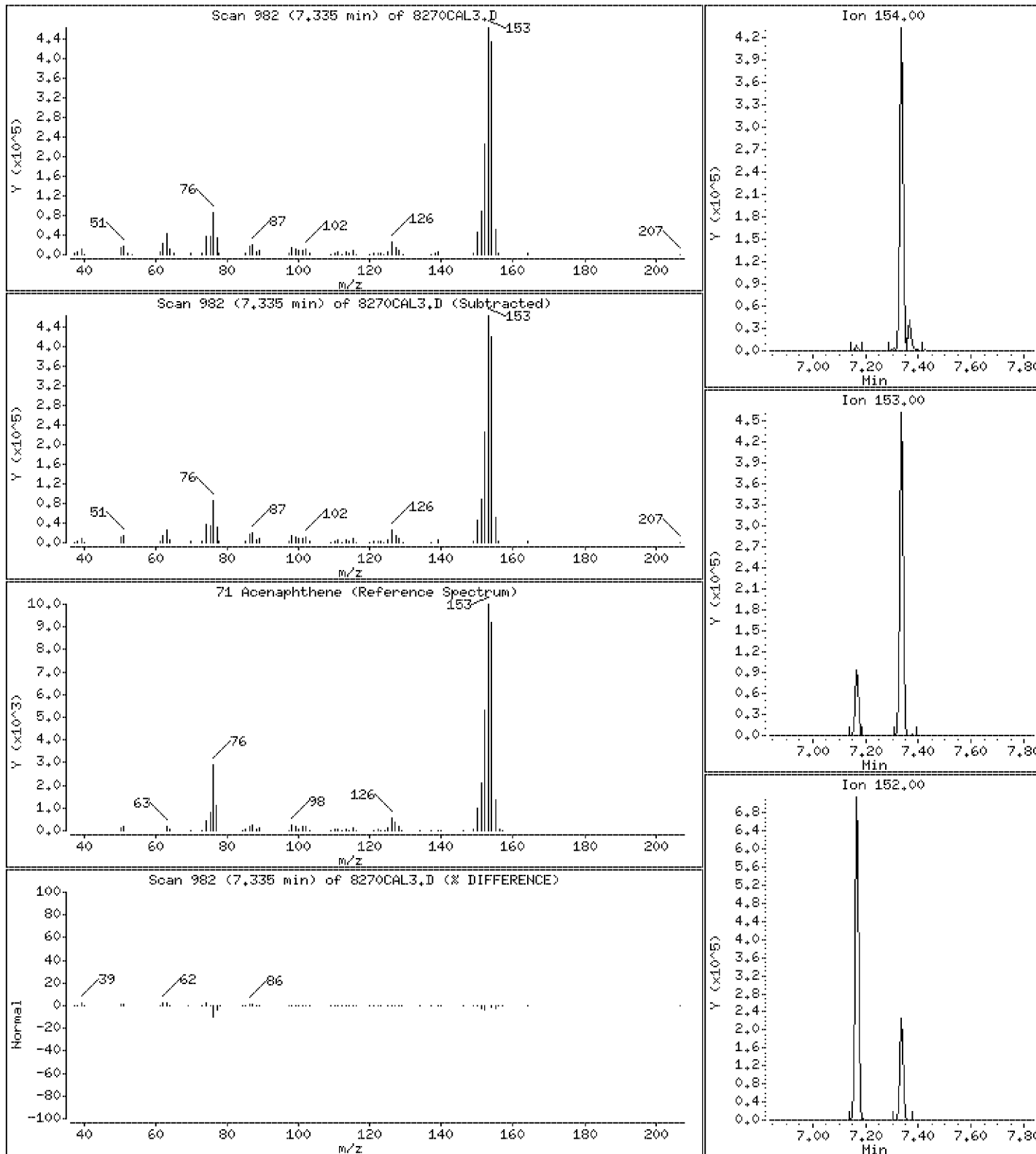
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

71 Acenaphthene

Concentration: 19.7 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

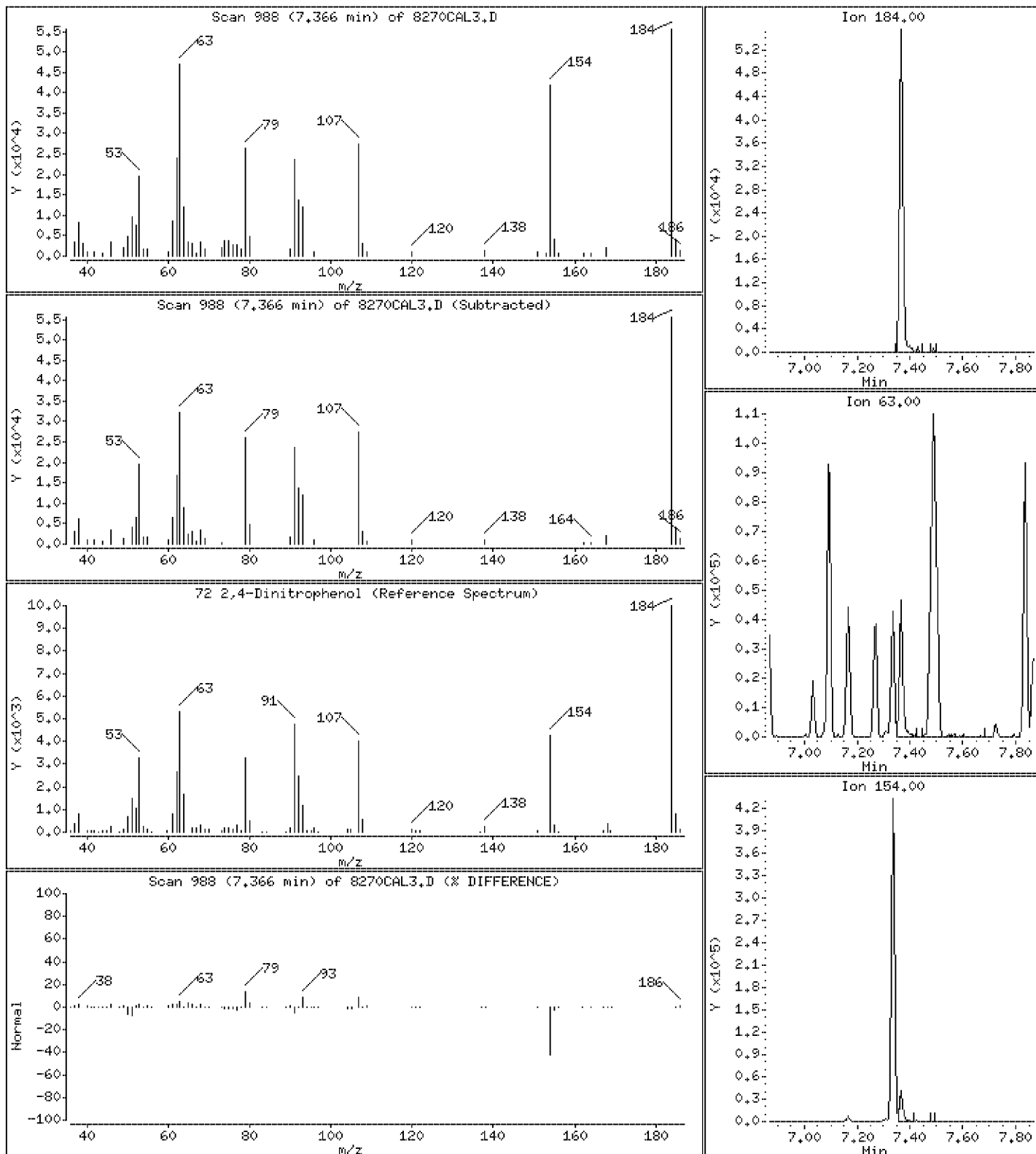
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

72 2,4-Dinitrophenol

Concentration: 19.1 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

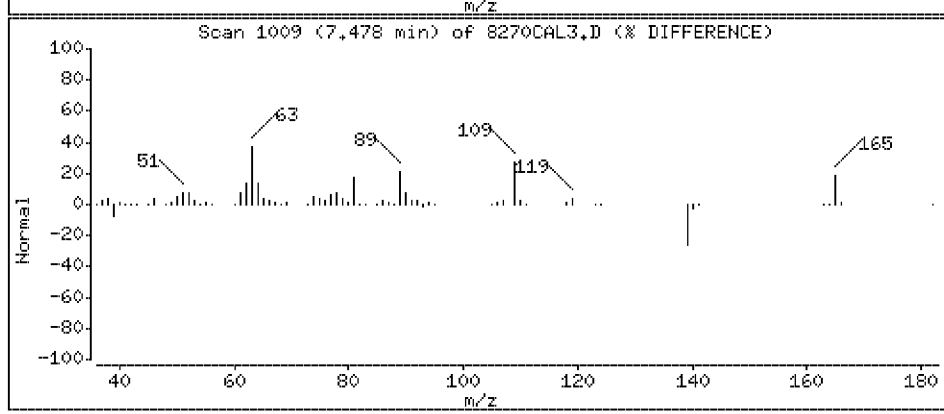
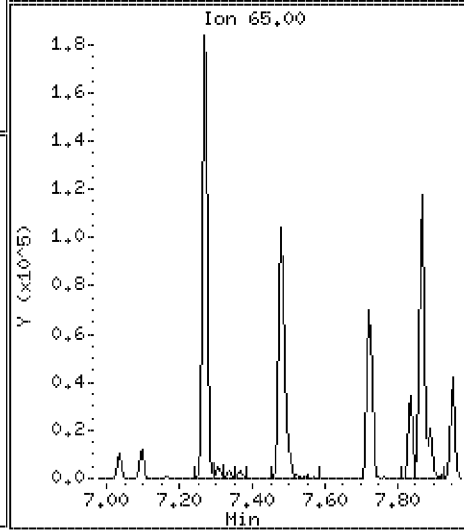
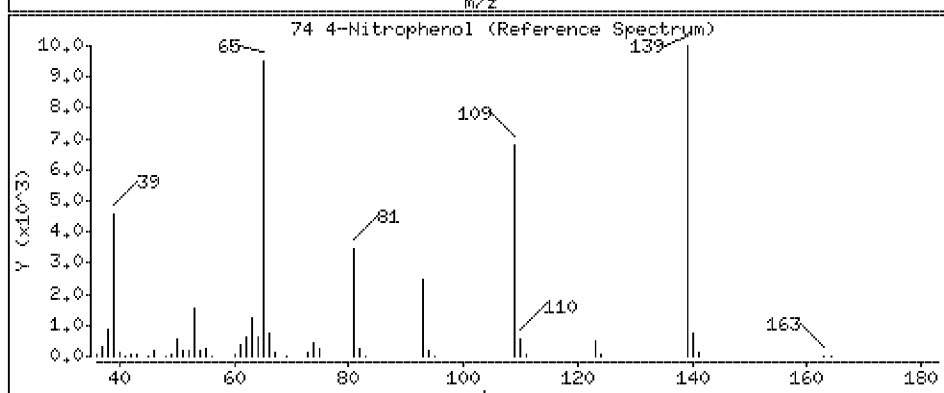
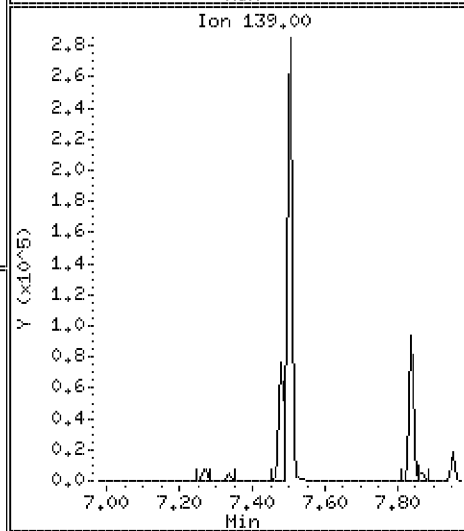
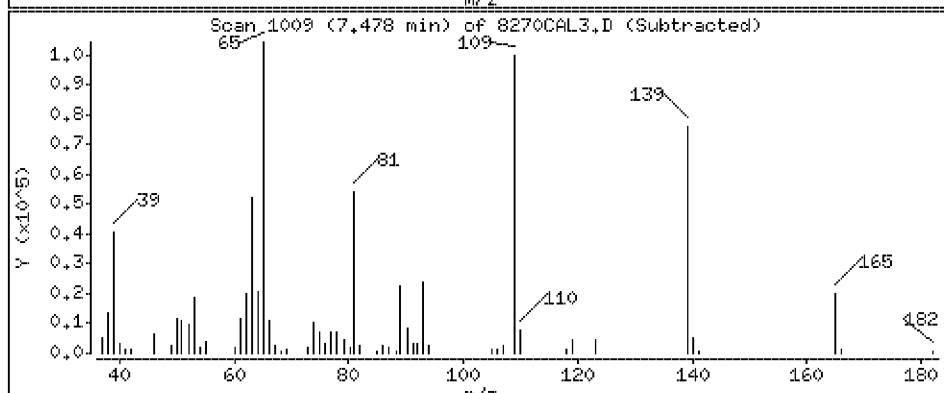
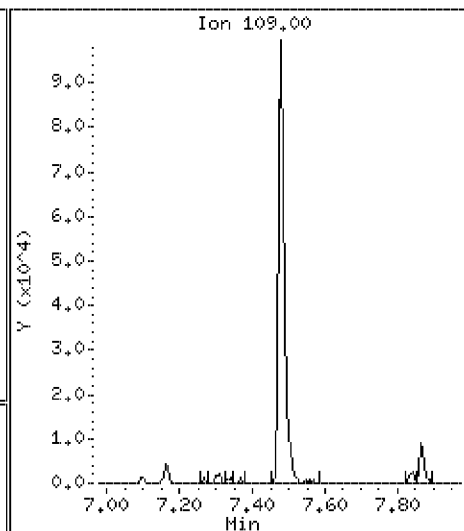
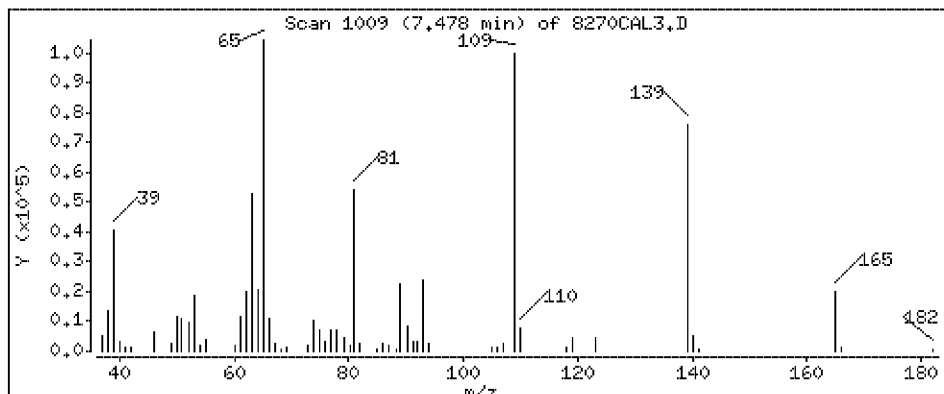
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

74 4-Nitrophenol

Concentration: 20.7 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

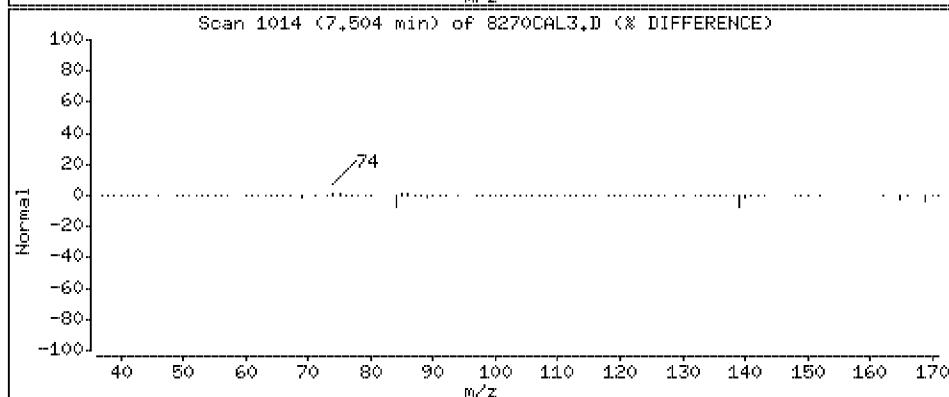
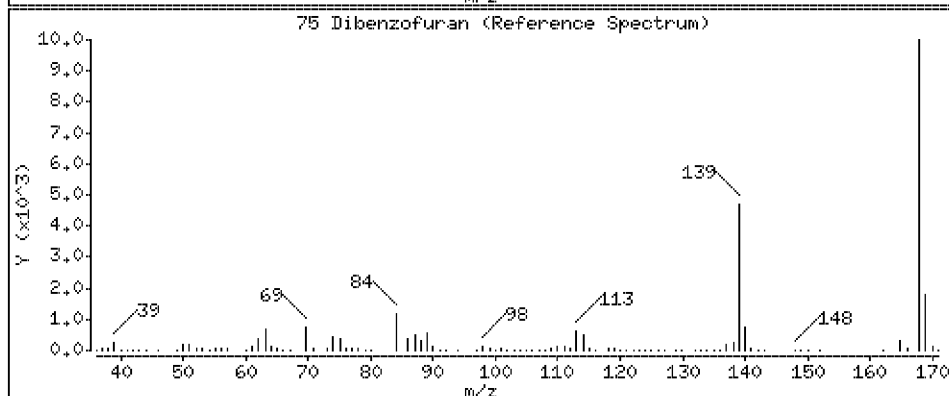
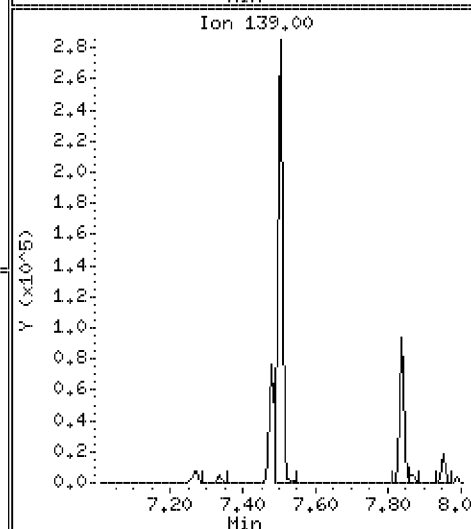
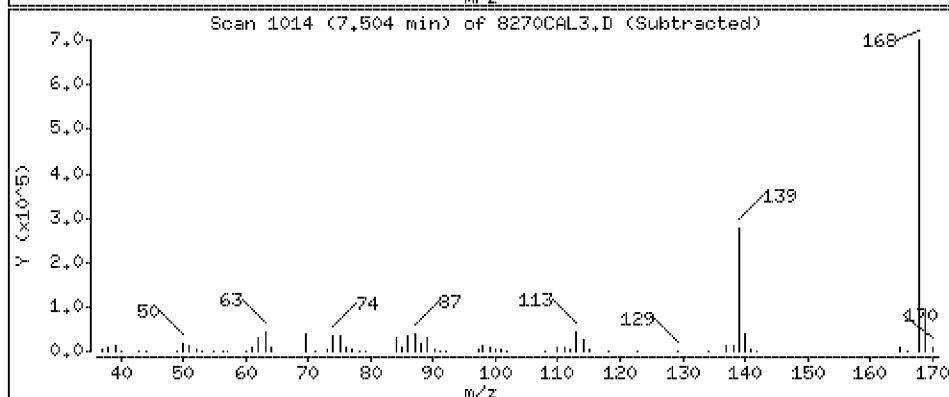
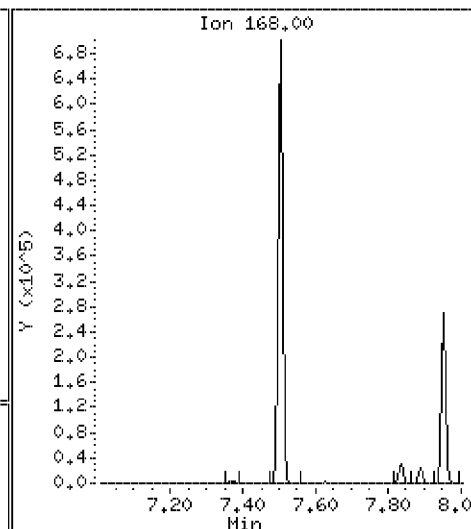
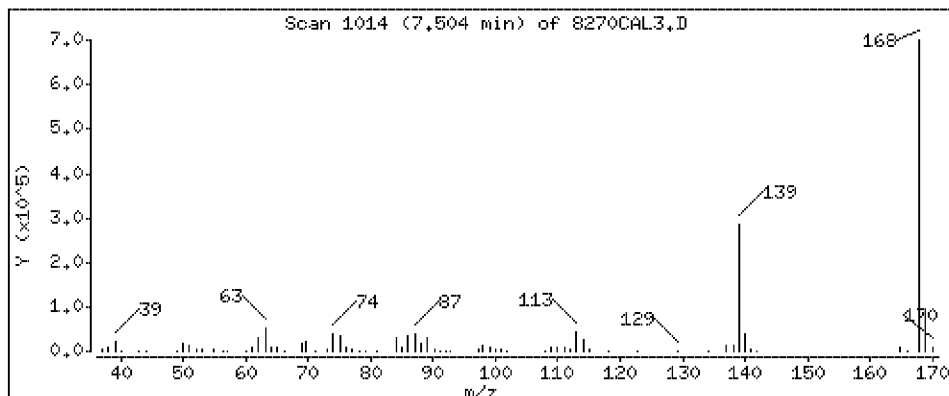
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

75 Dibenzofuran

Concentration: 19.7 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

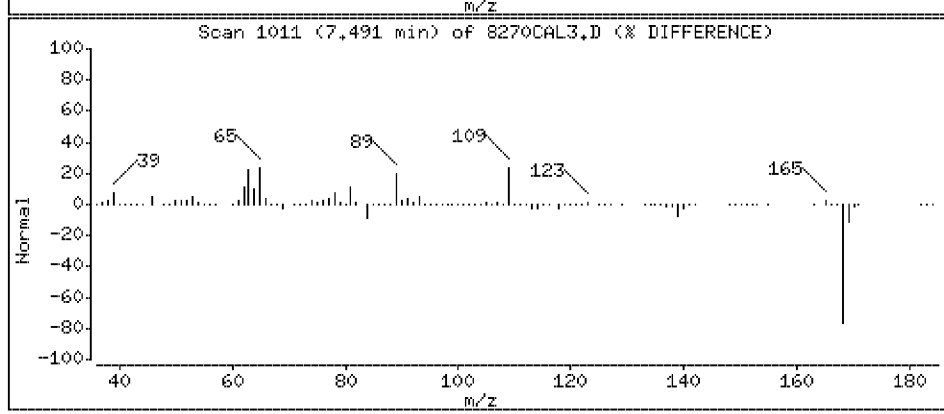
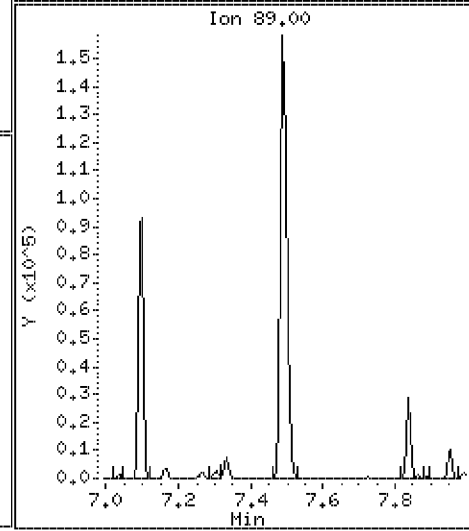
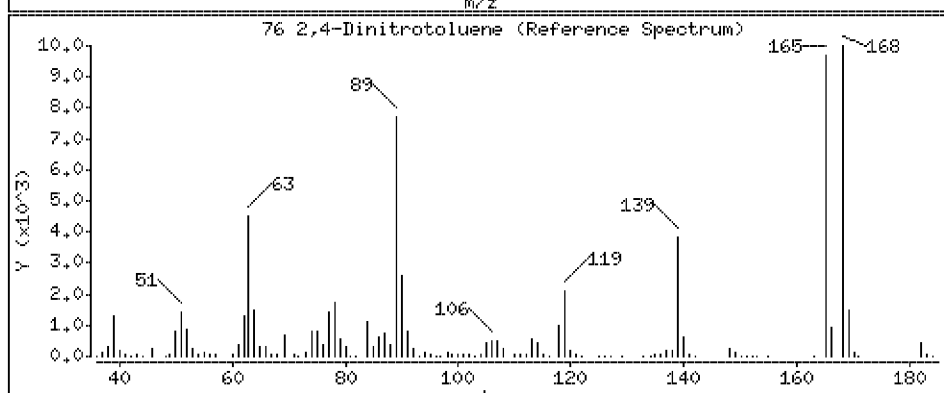
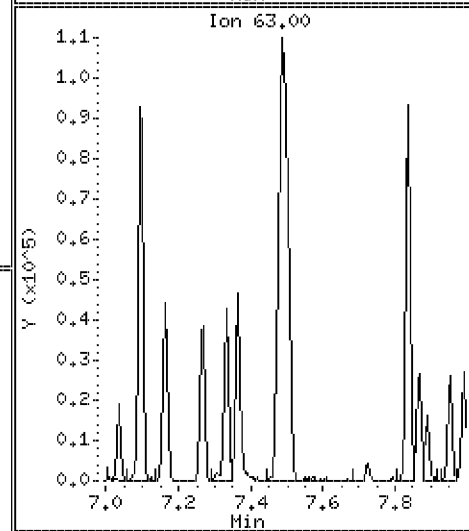
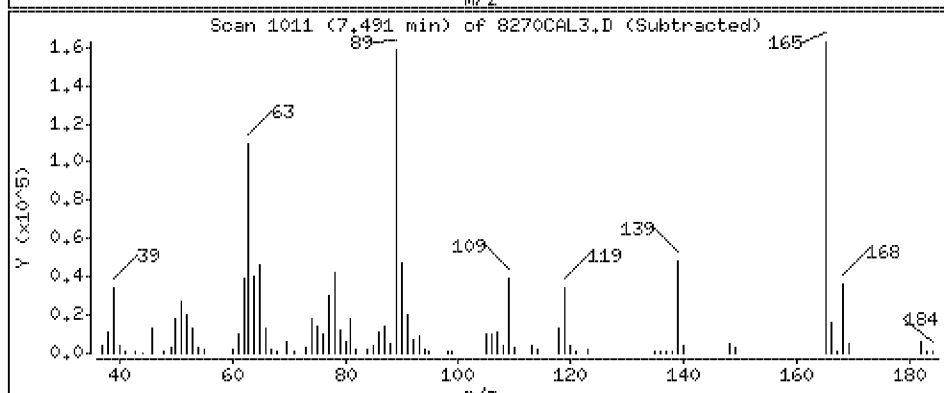
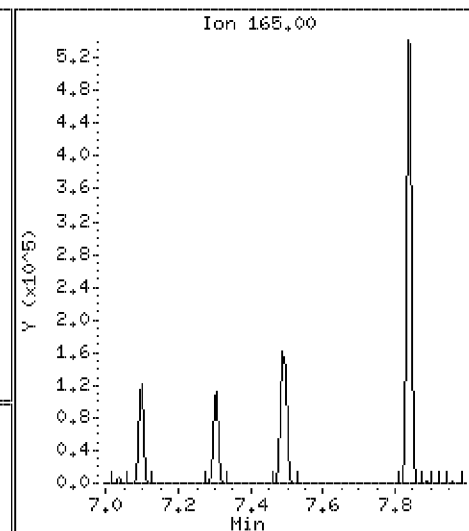
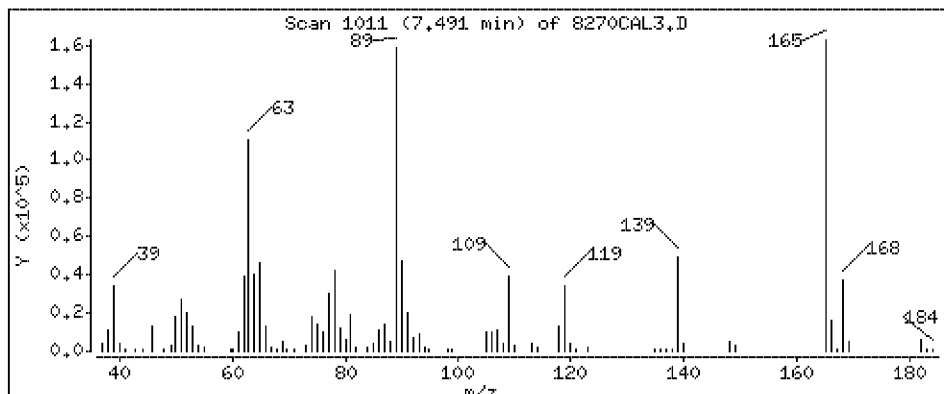
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

76 2,4-Dinitrotoluene

Concentration: 19.3 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

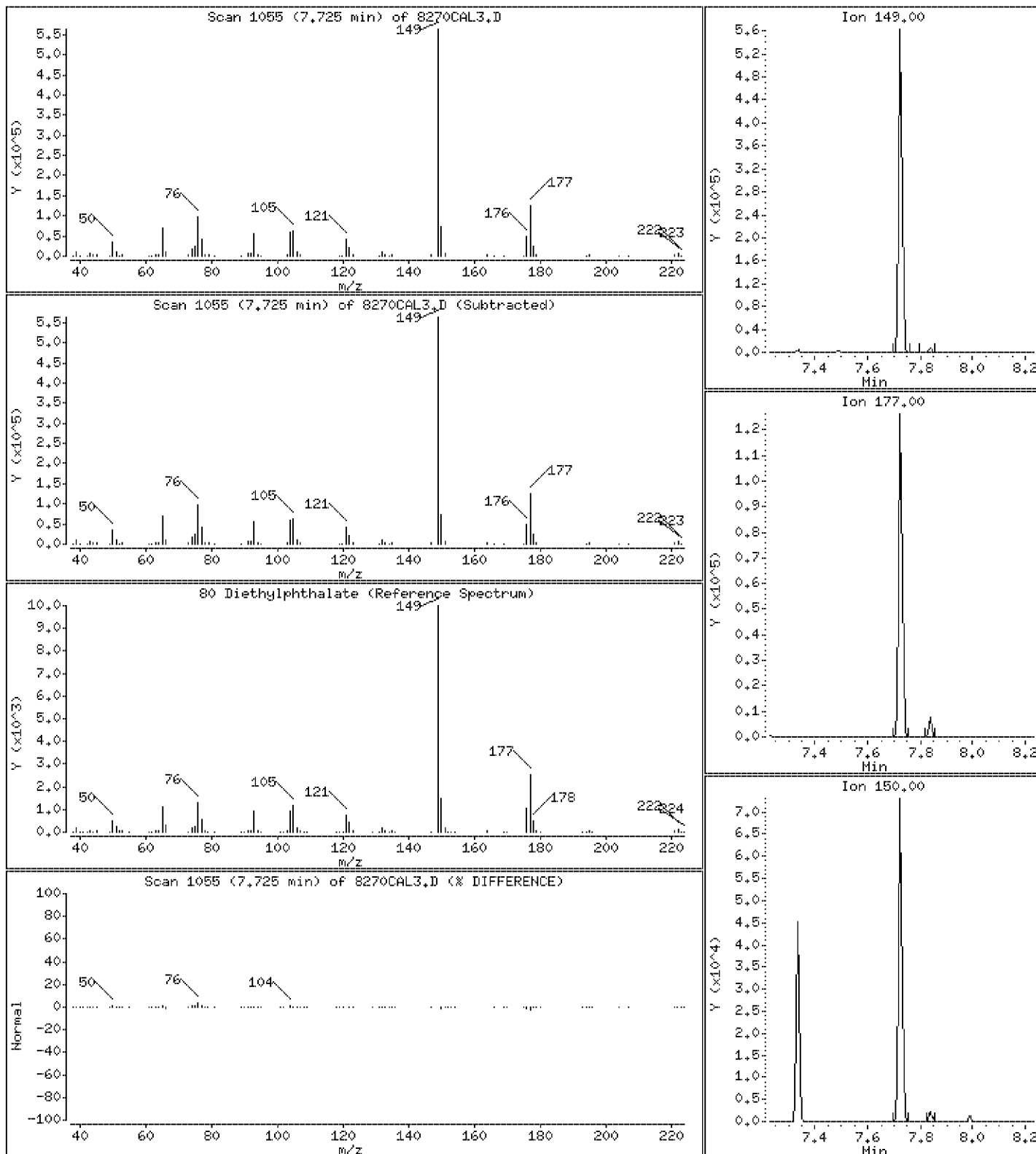
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

80 Diethylphthalate

Concentration: 19.7 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

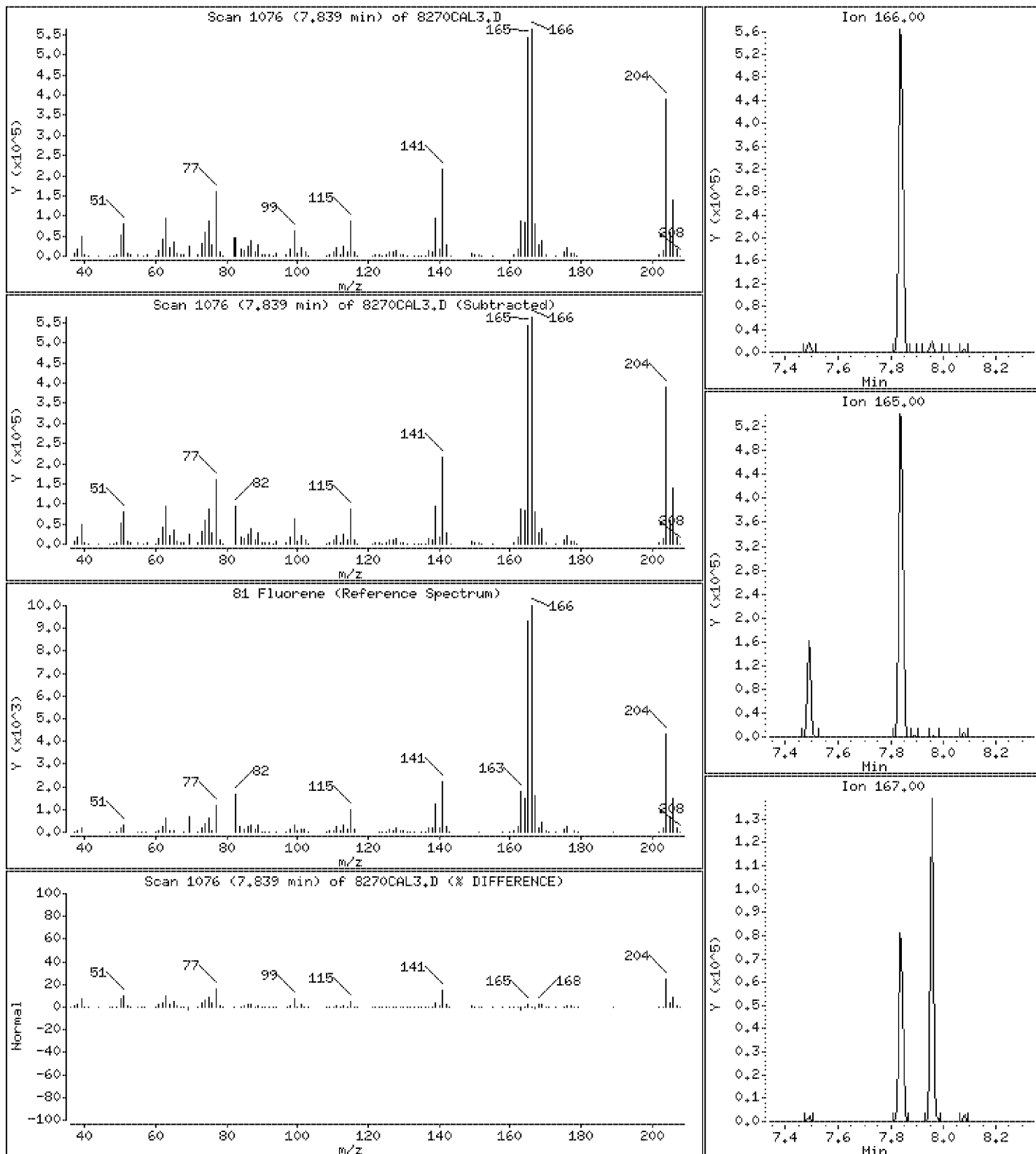
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

81 Fluorene

Concentration: 19.0 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

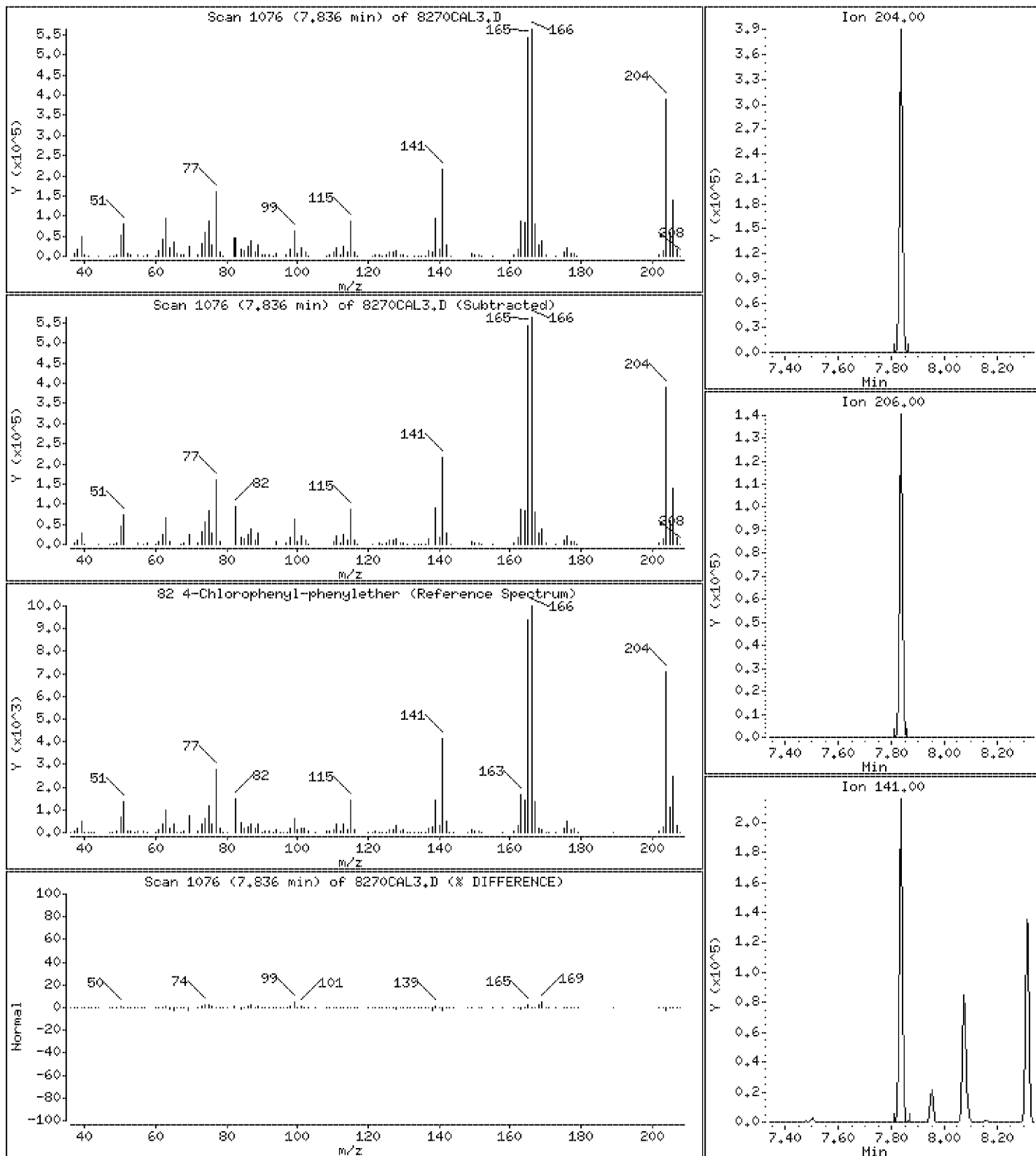
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

82 4-Chlorophenyl-phenylether

Concentration: 18.5 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

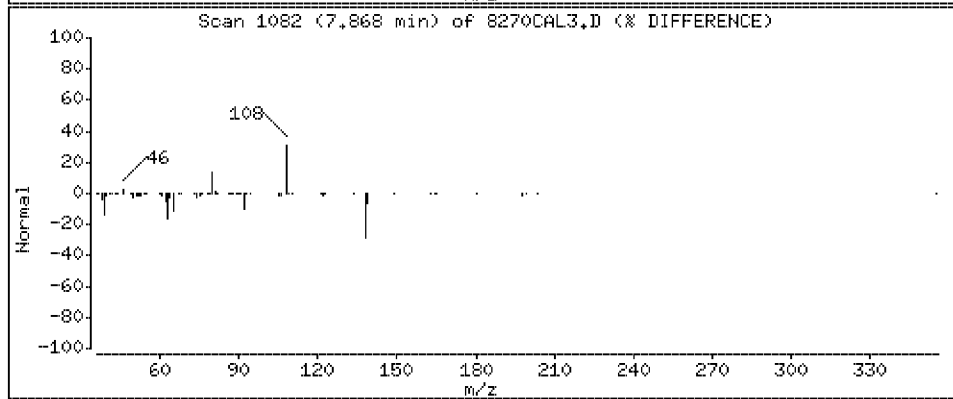
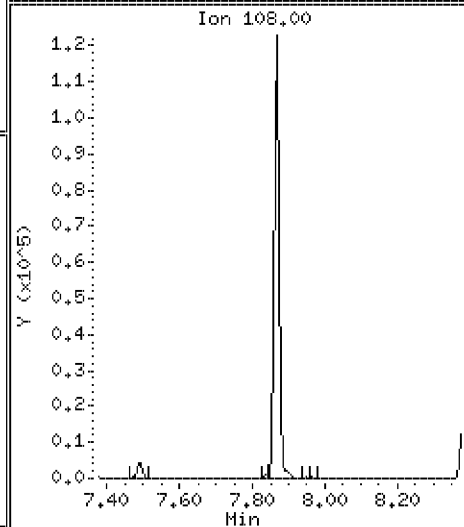
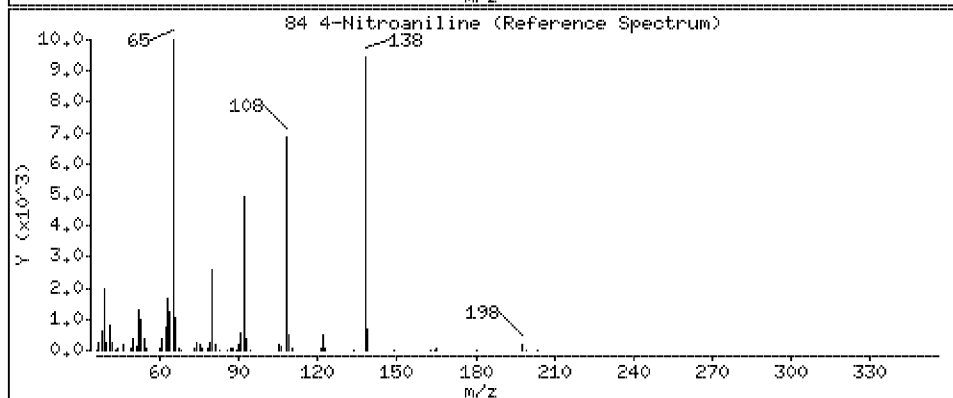
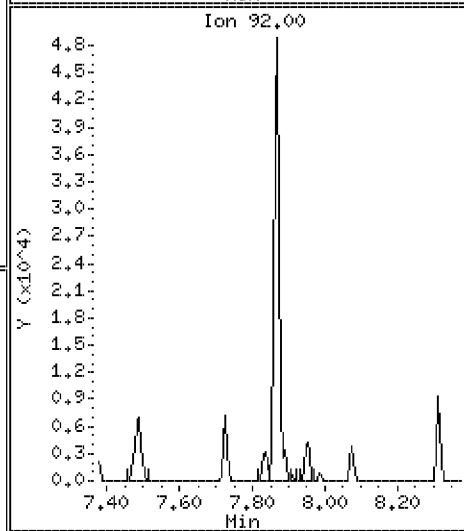
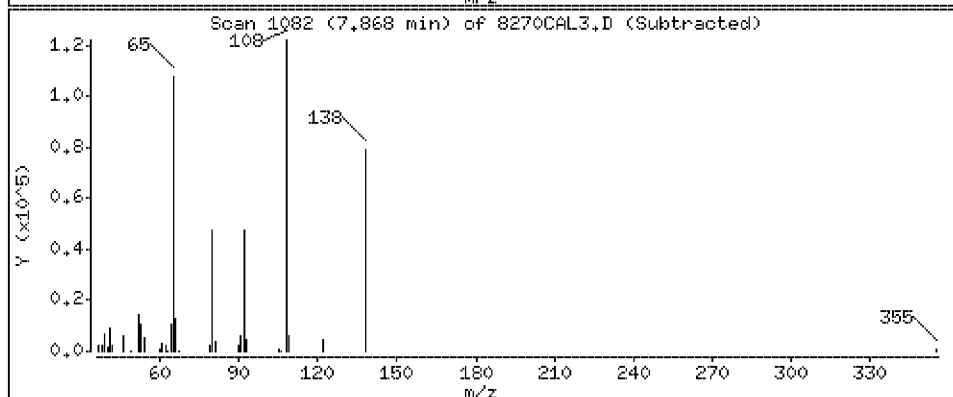
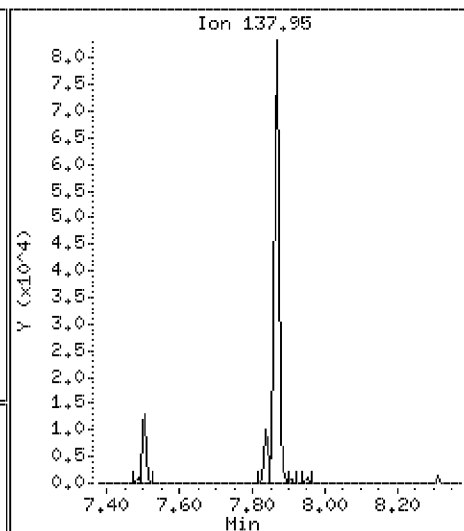
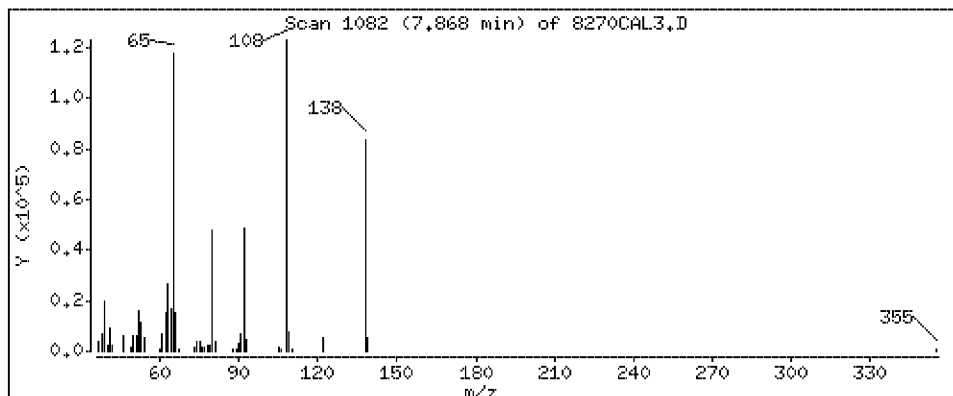
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

84 4-Nitroaniline

Concentration: 18.4 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

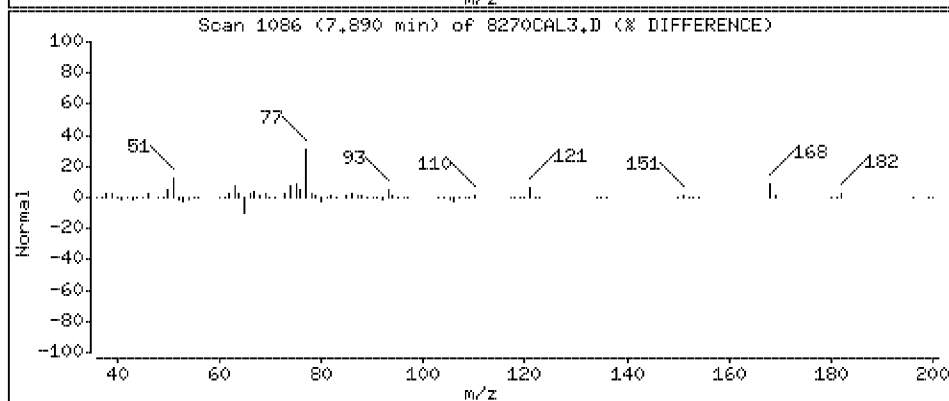
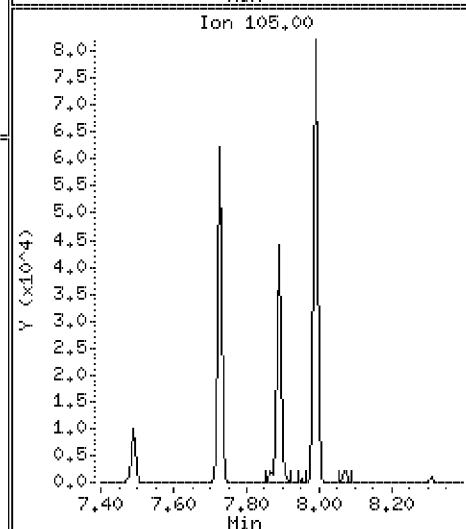
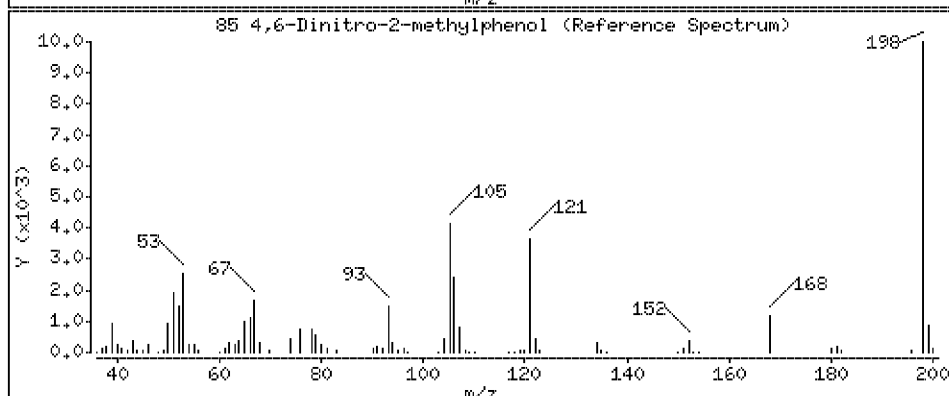
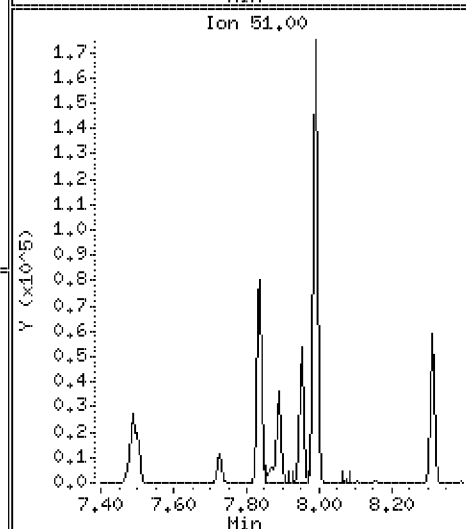
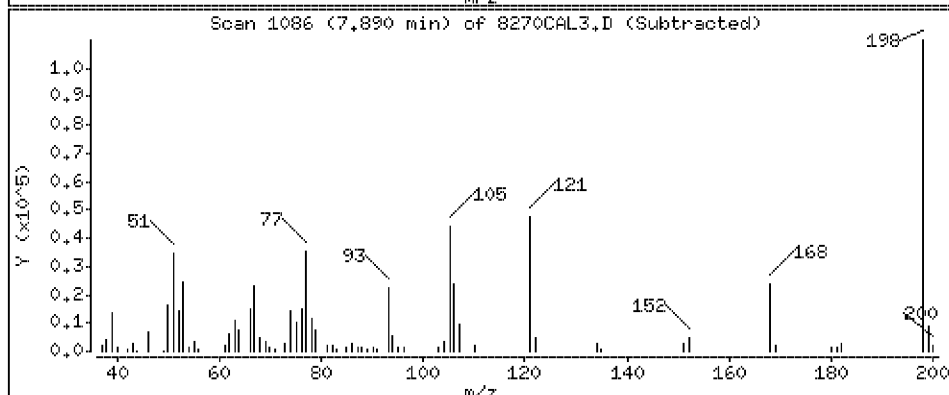
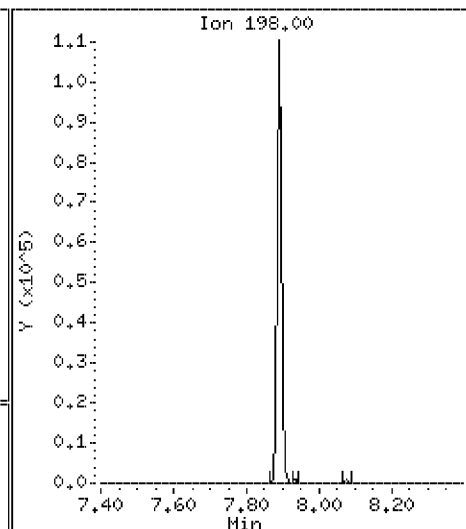
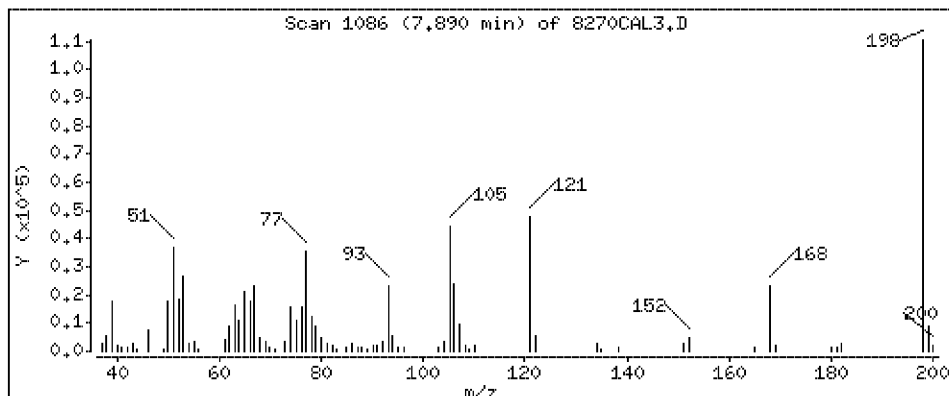
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

85 4,6-Dinitro-2-methylphenol

Concentration: 18.8 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

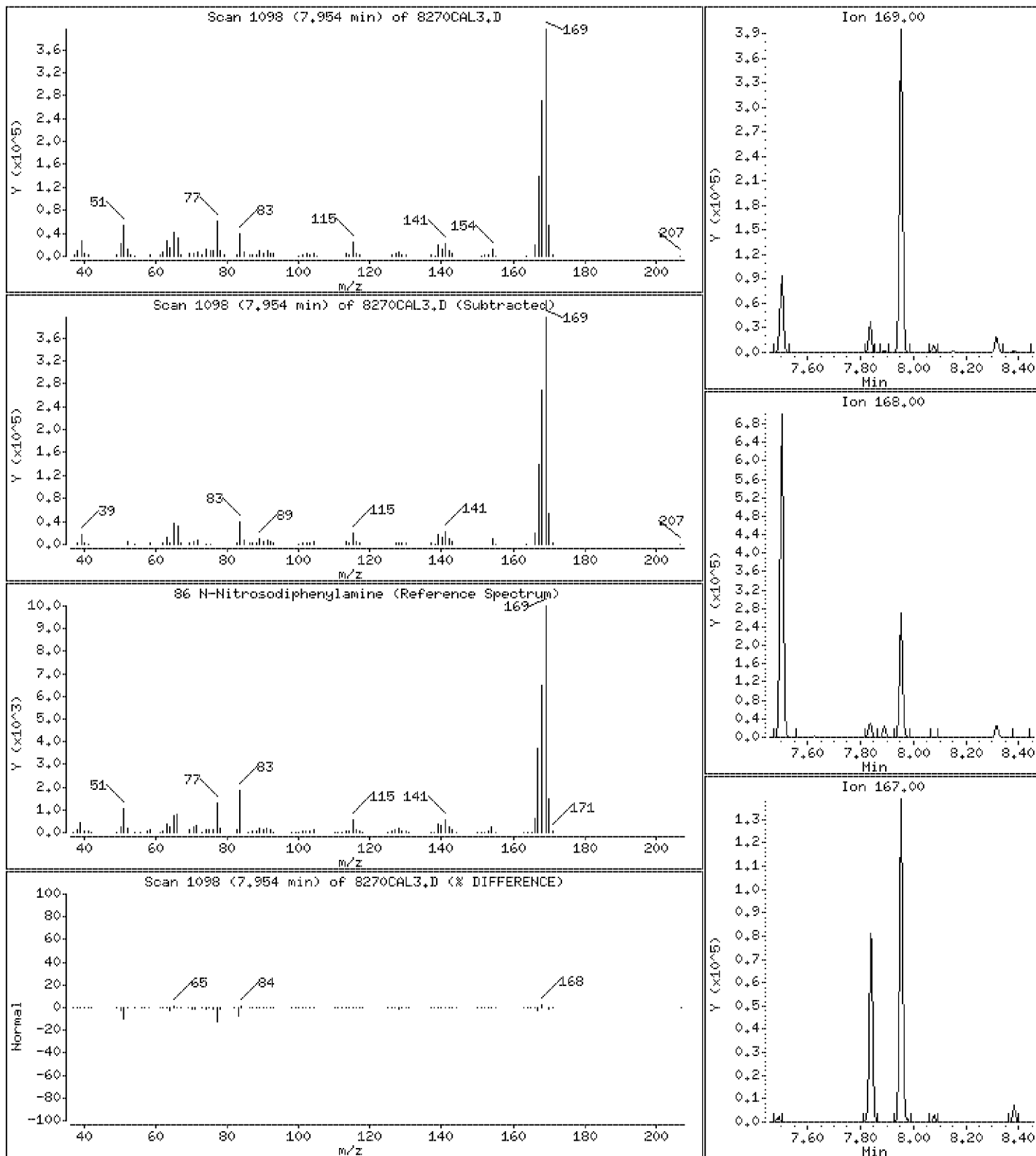
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

86 N-Nitrosodiphenylamine

Concentration: 19.8 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

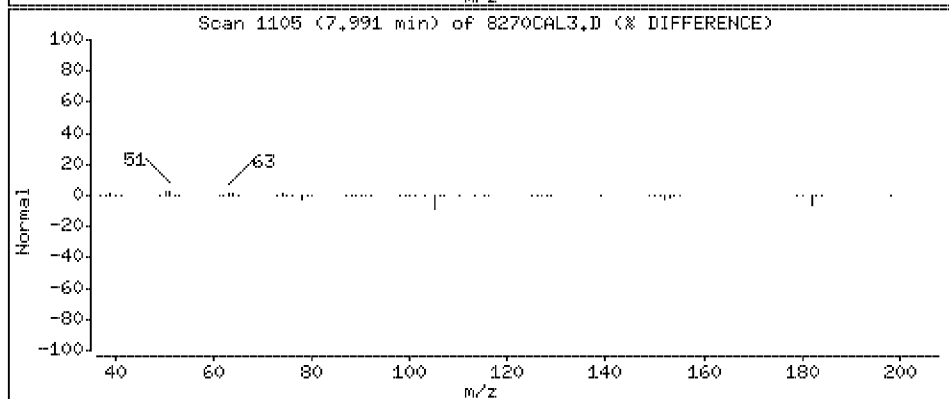
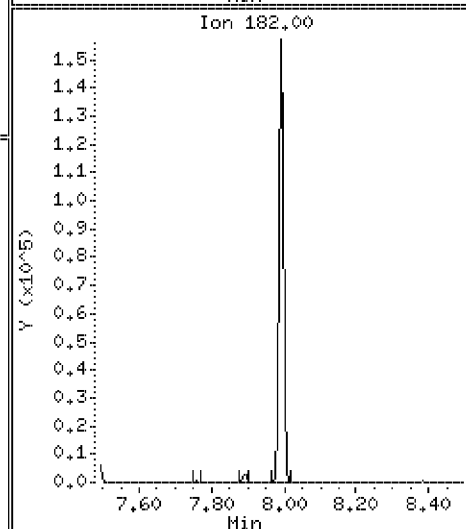
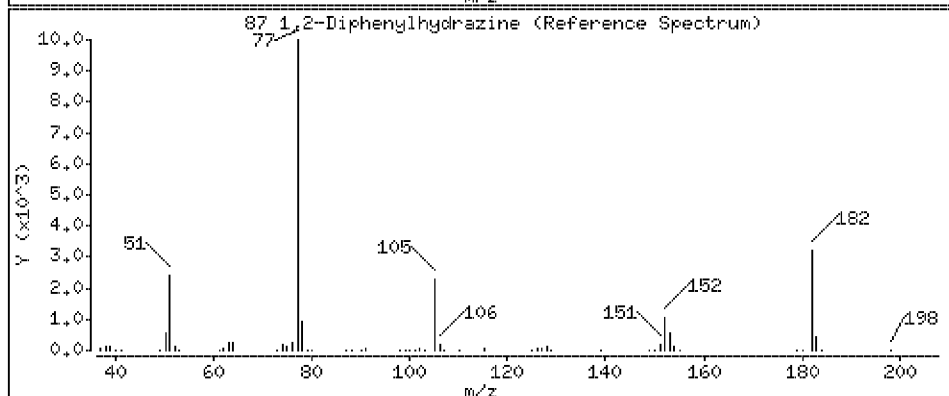
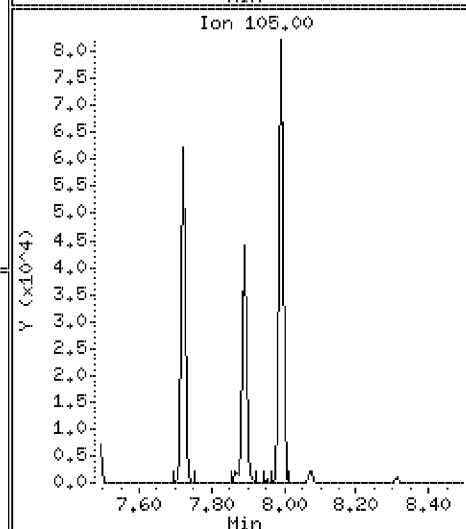
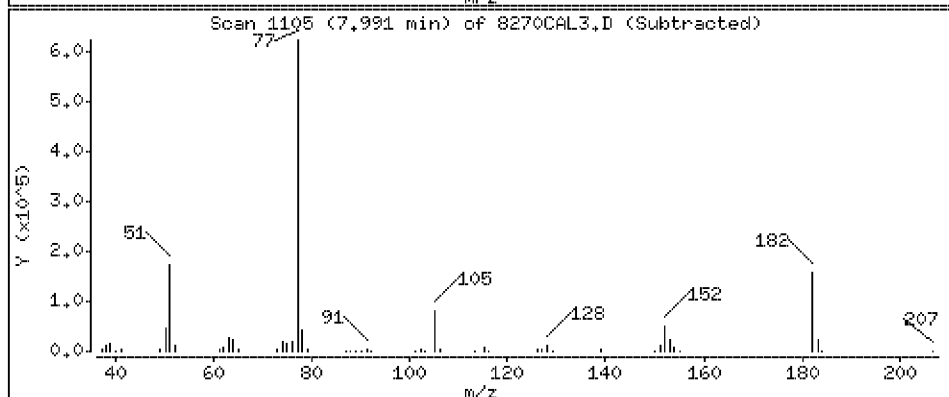
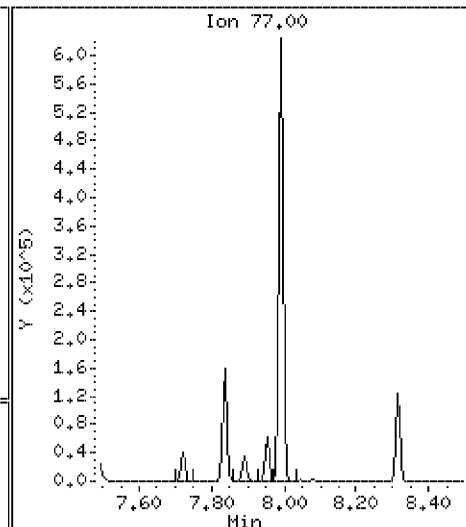
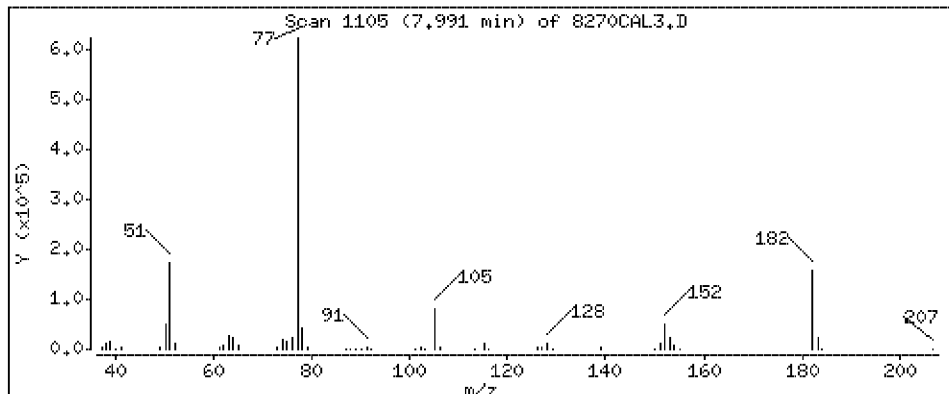
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

87 1,2-Diphenylhydrazine

Concentration: 20.4 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

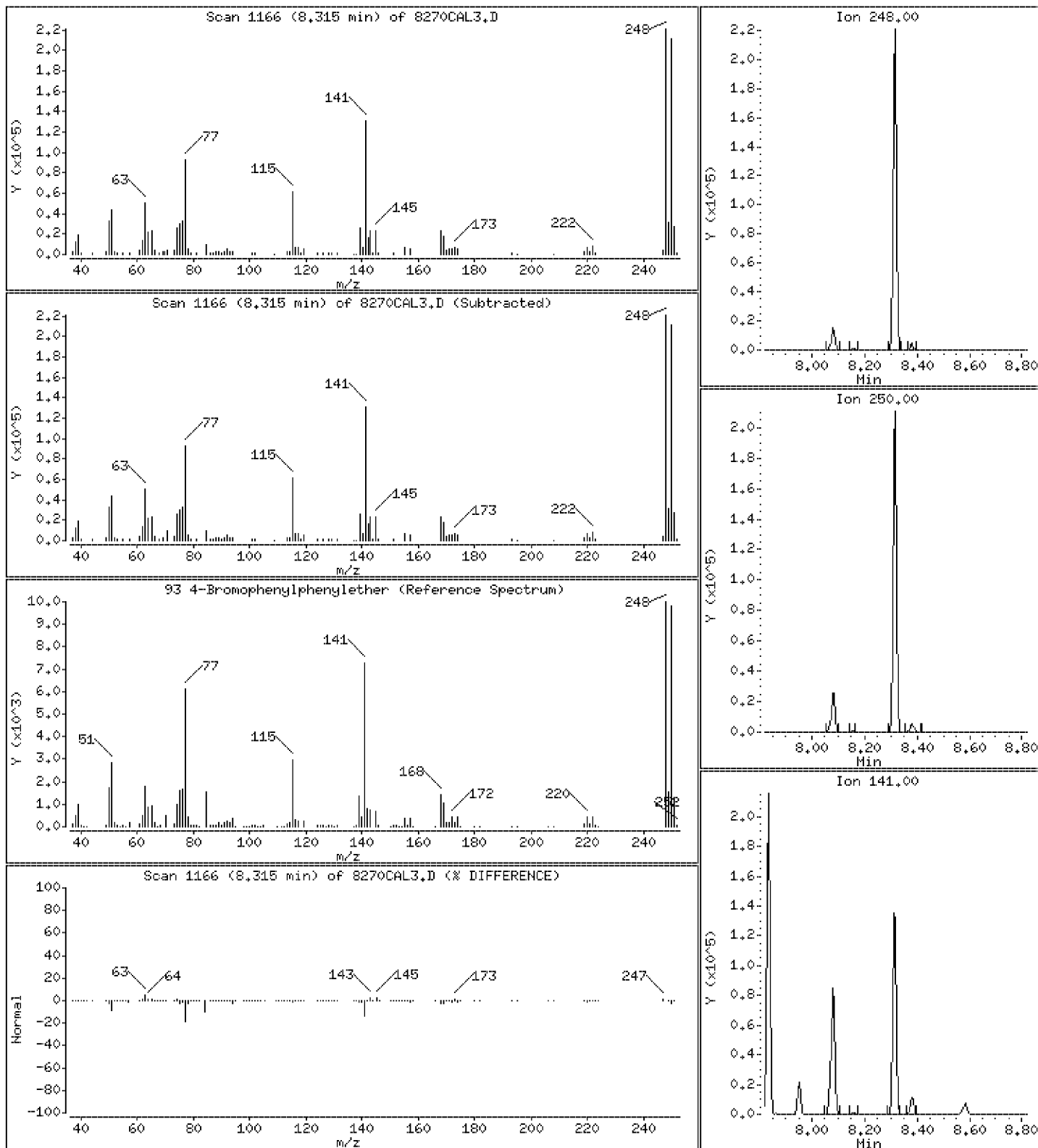
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

93 4-Bromophenylphenylether

Concentration: 19.3 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

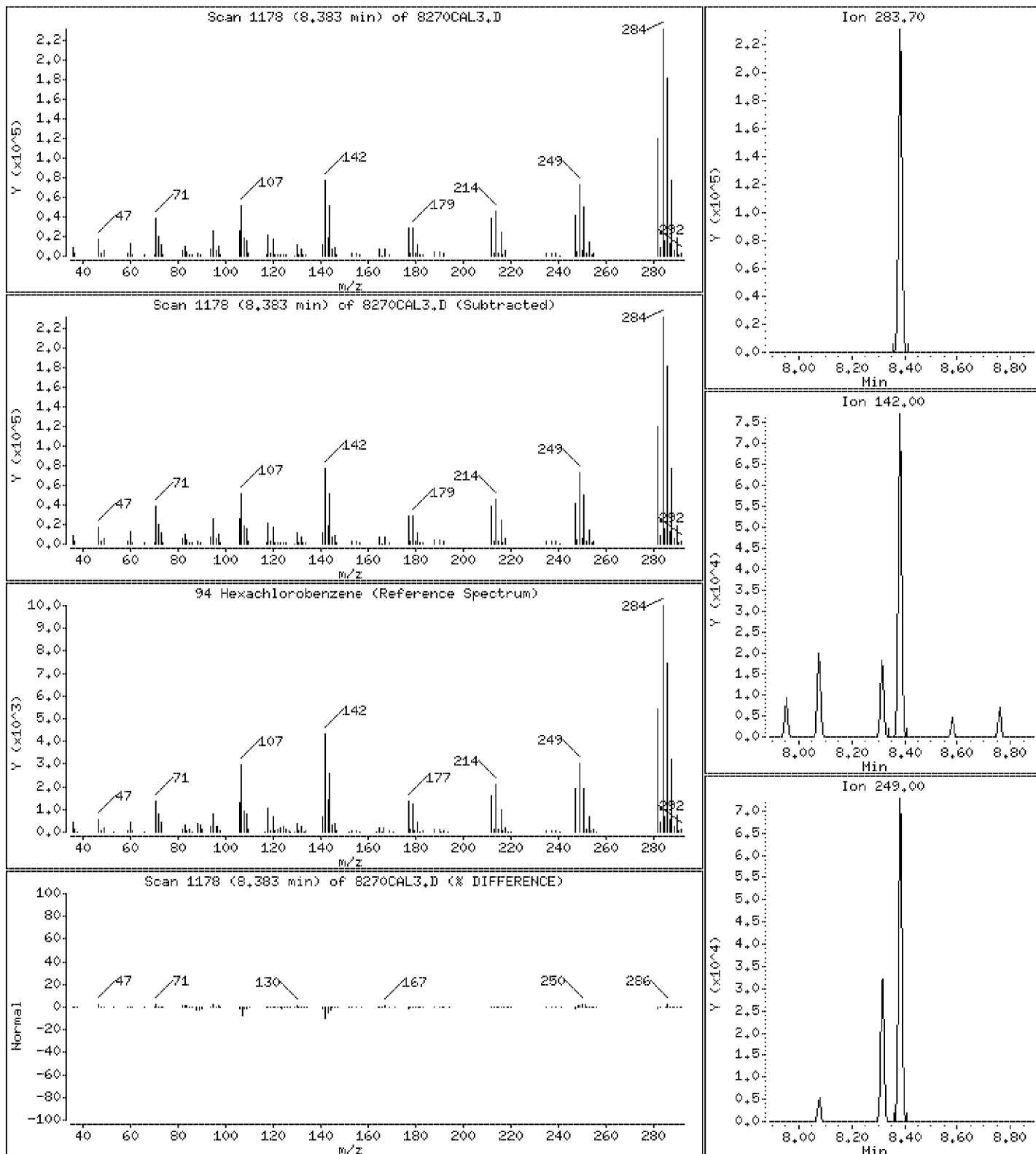
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

94 Hexachlorobenzene

Concentration: 18.8 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

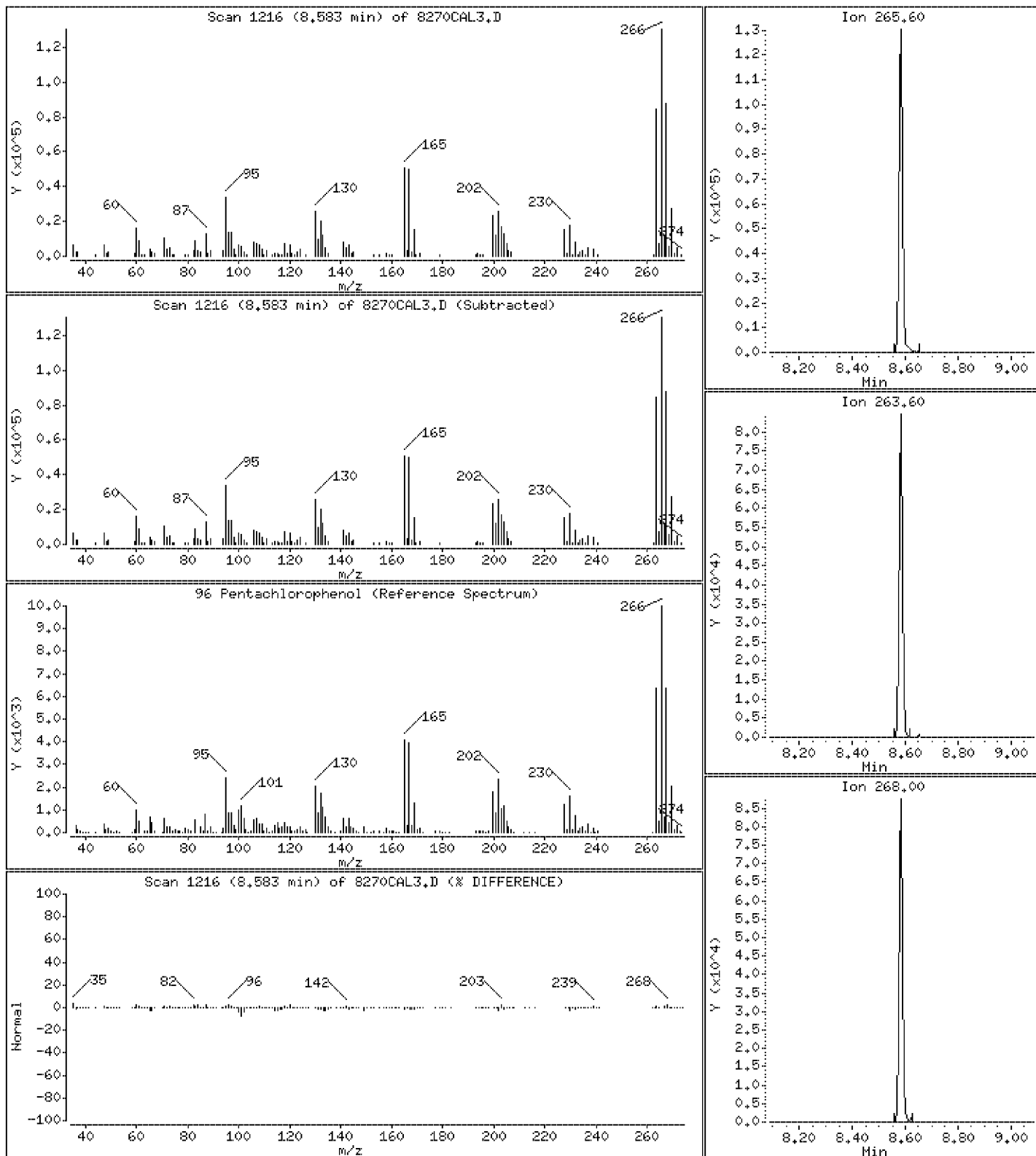
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

96 Pentachlorophenol

Concentration: 18.5 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

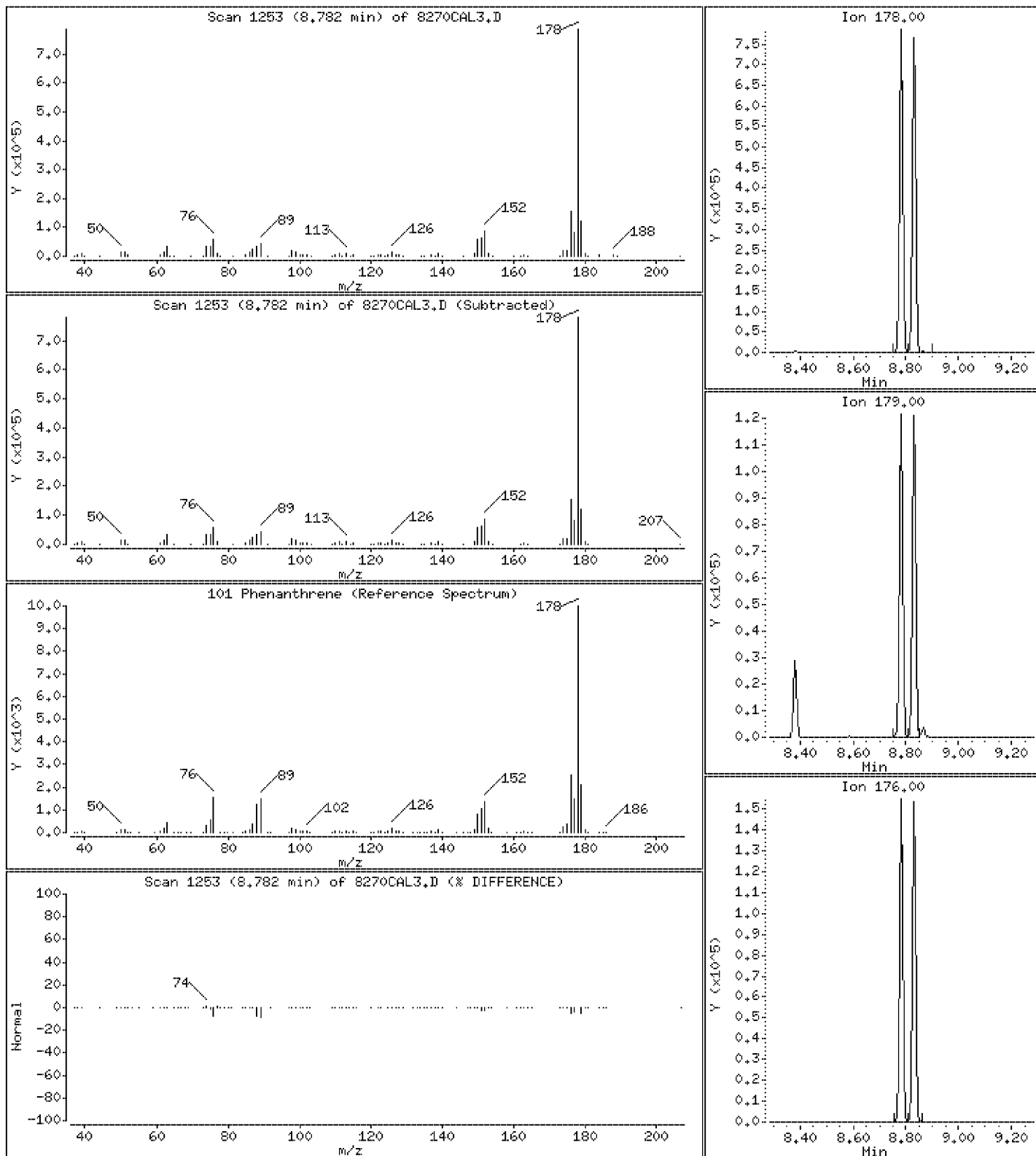
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

101 Phenanthrene

Concentration: 19.8 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

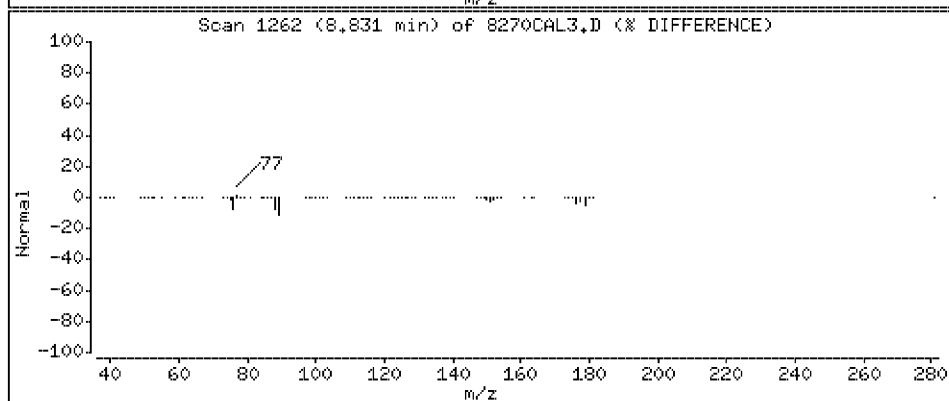
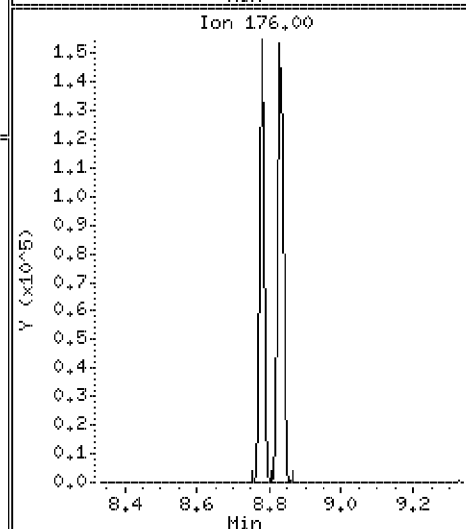
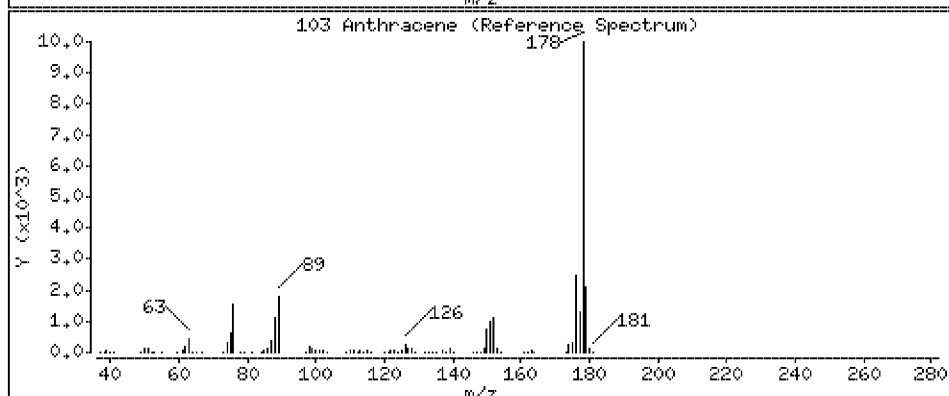
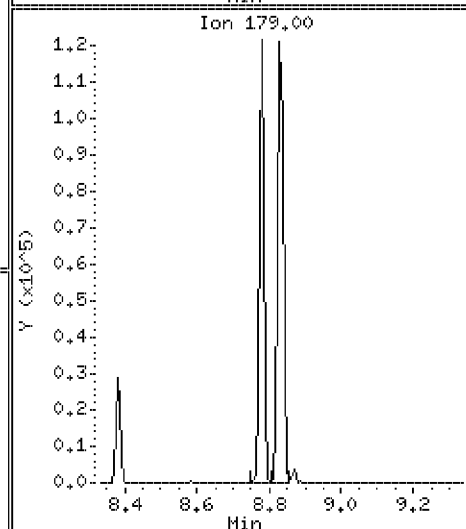
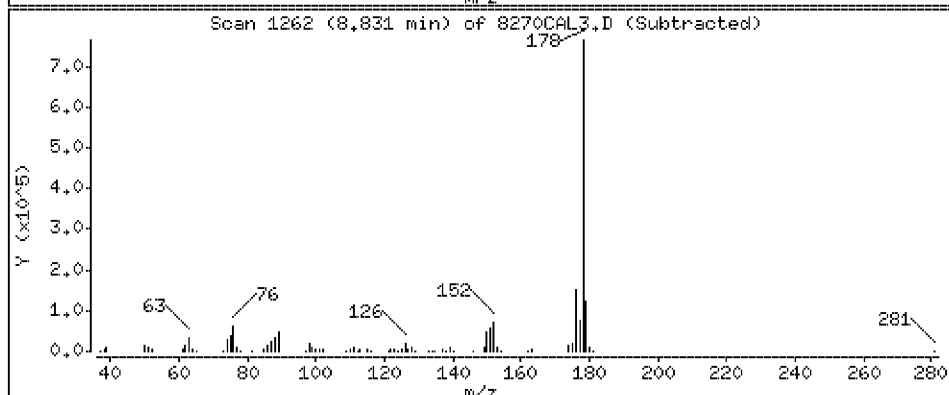
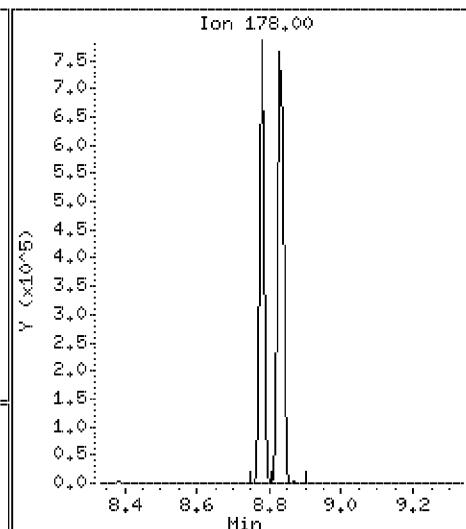
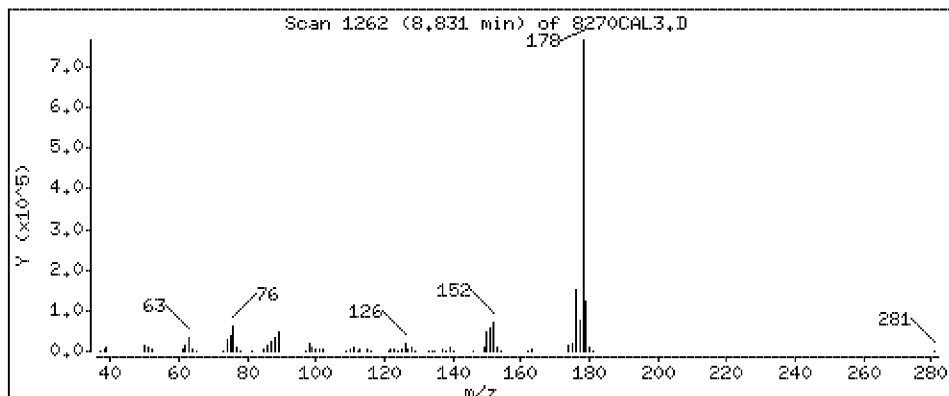
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

103 Anthracene

Concentration: 19.9 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

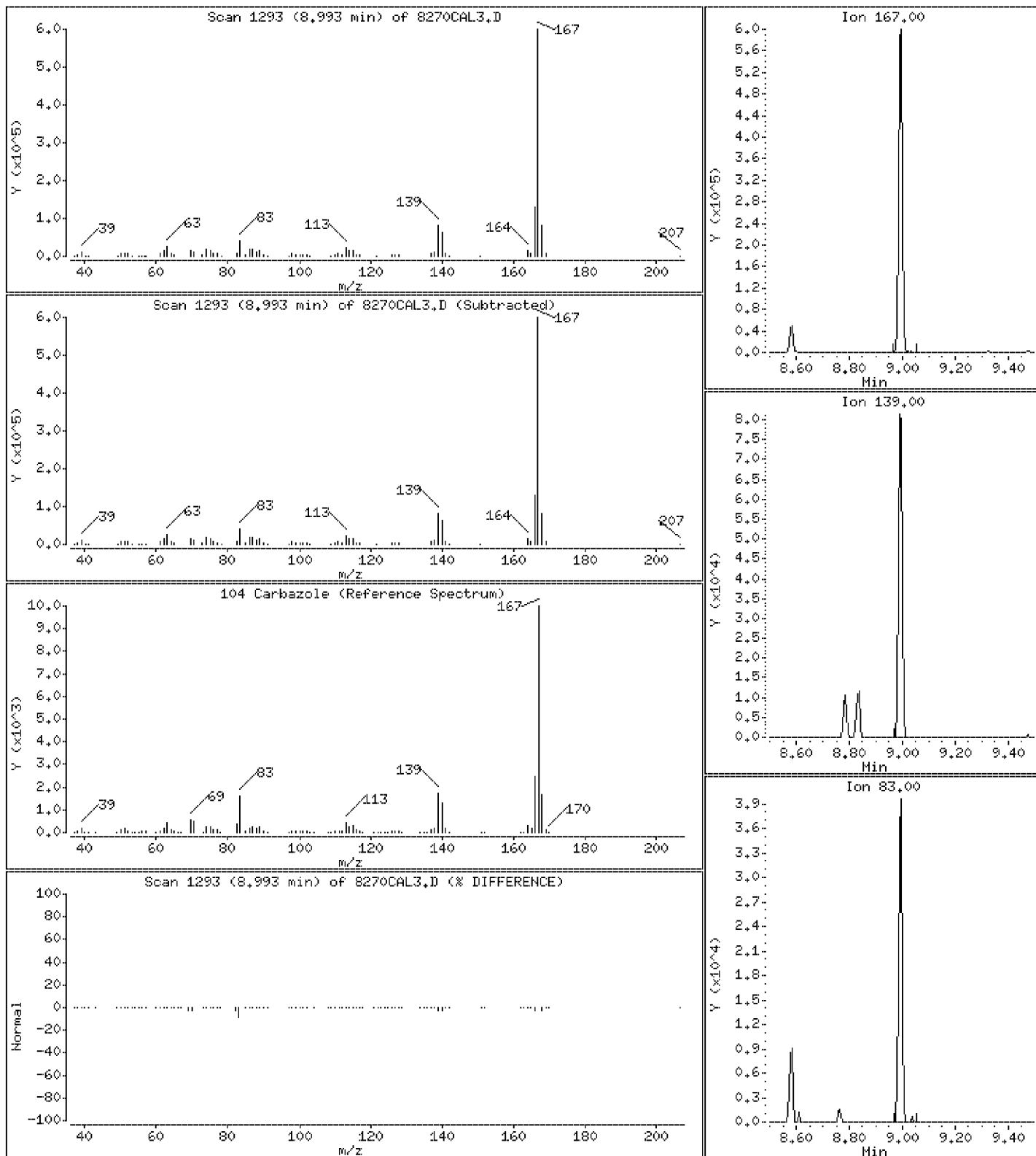
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

104 Carbazole

Concentration: 20.1 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

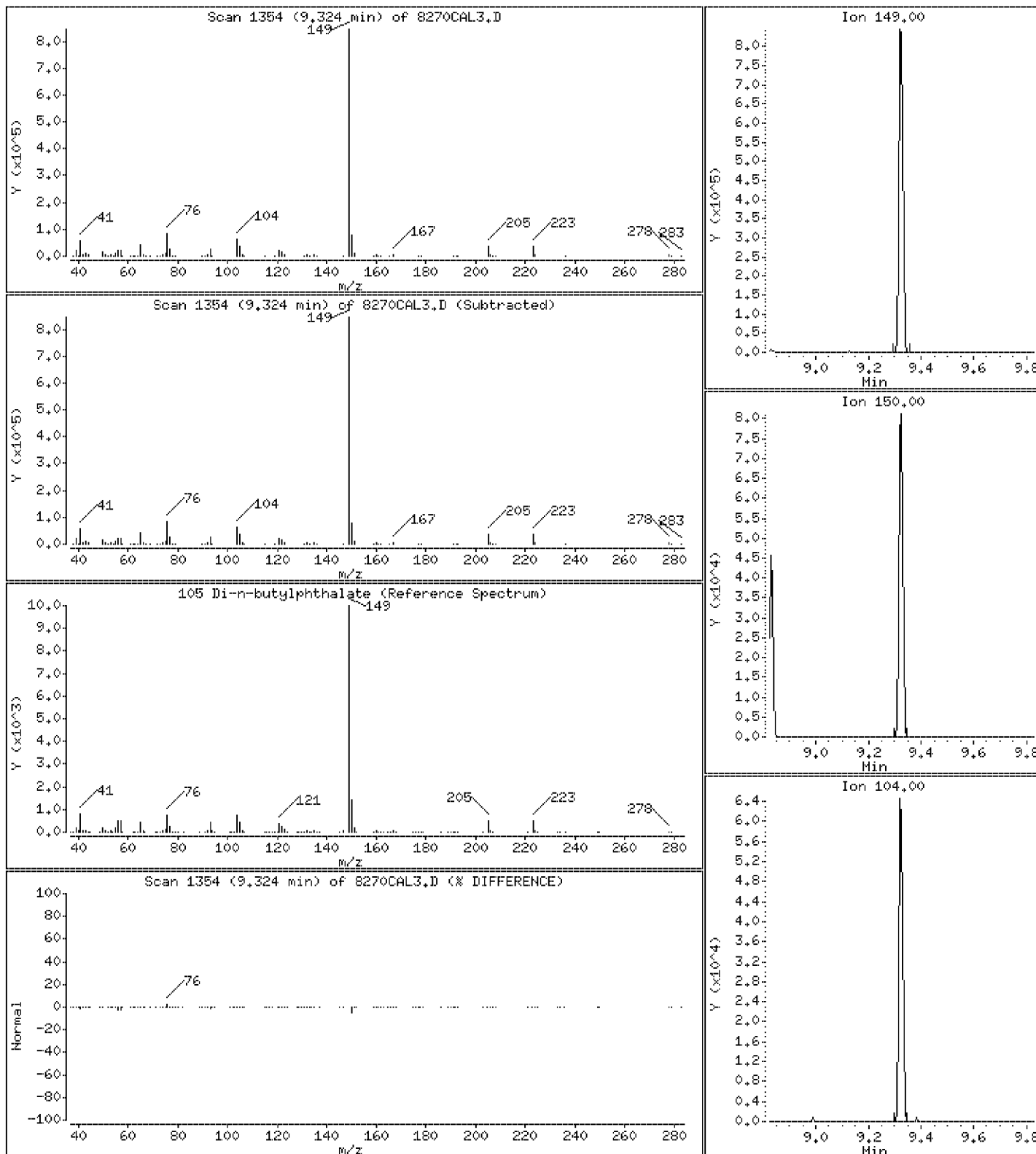
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

105 Di-n-butylphthalate

Concentration: 20.4 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

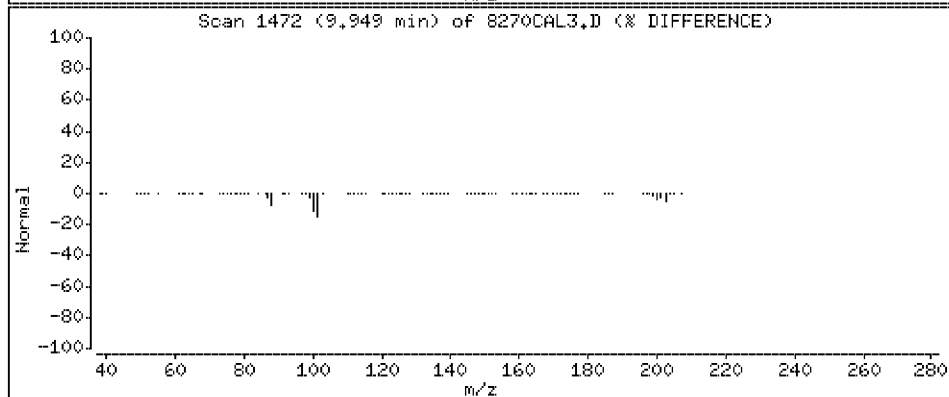
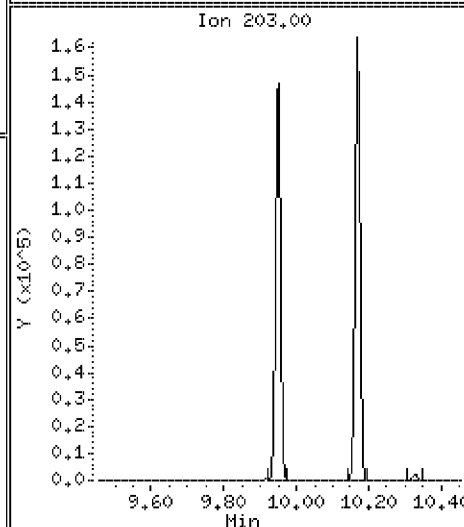
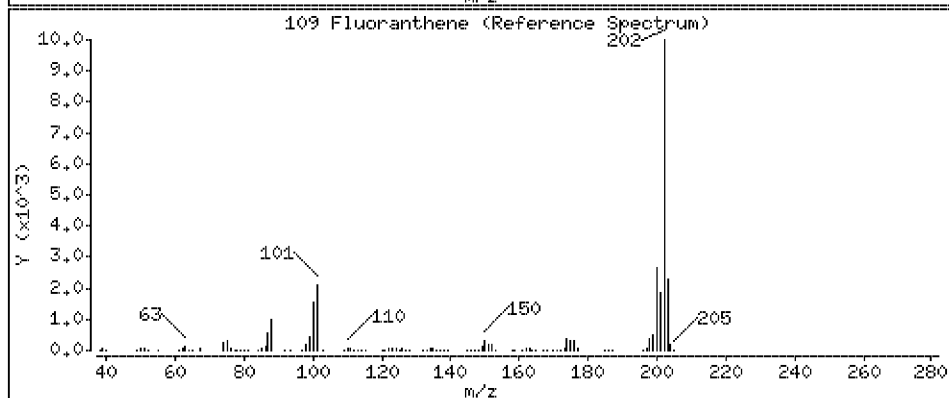
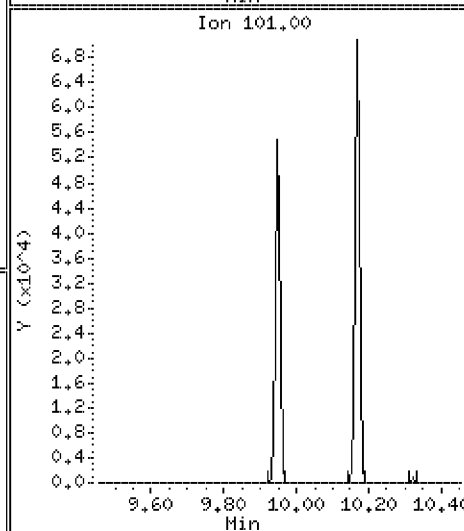
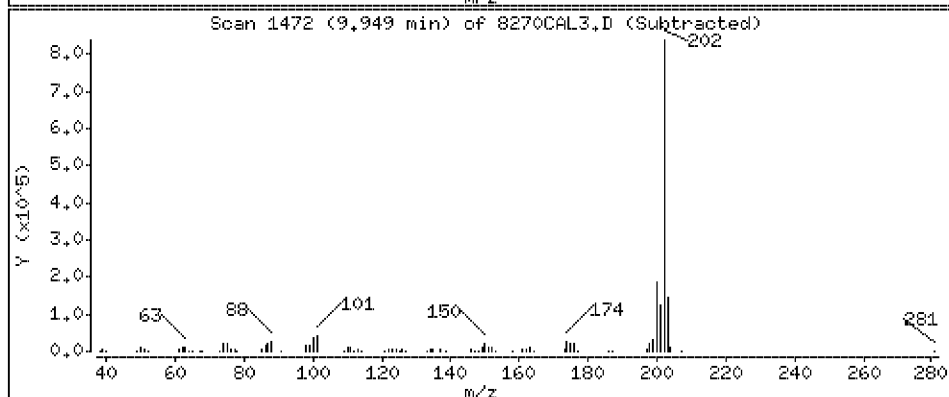
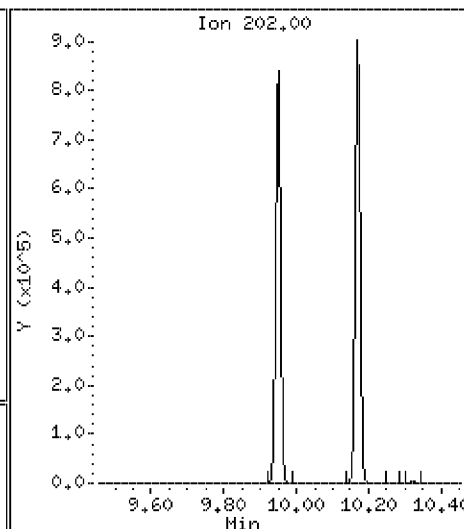
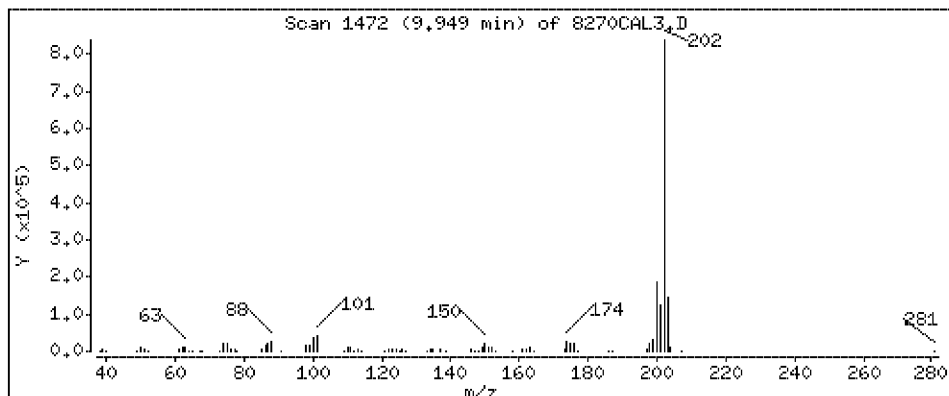
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

109 Fluoranthene

Concentration: 20.4 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

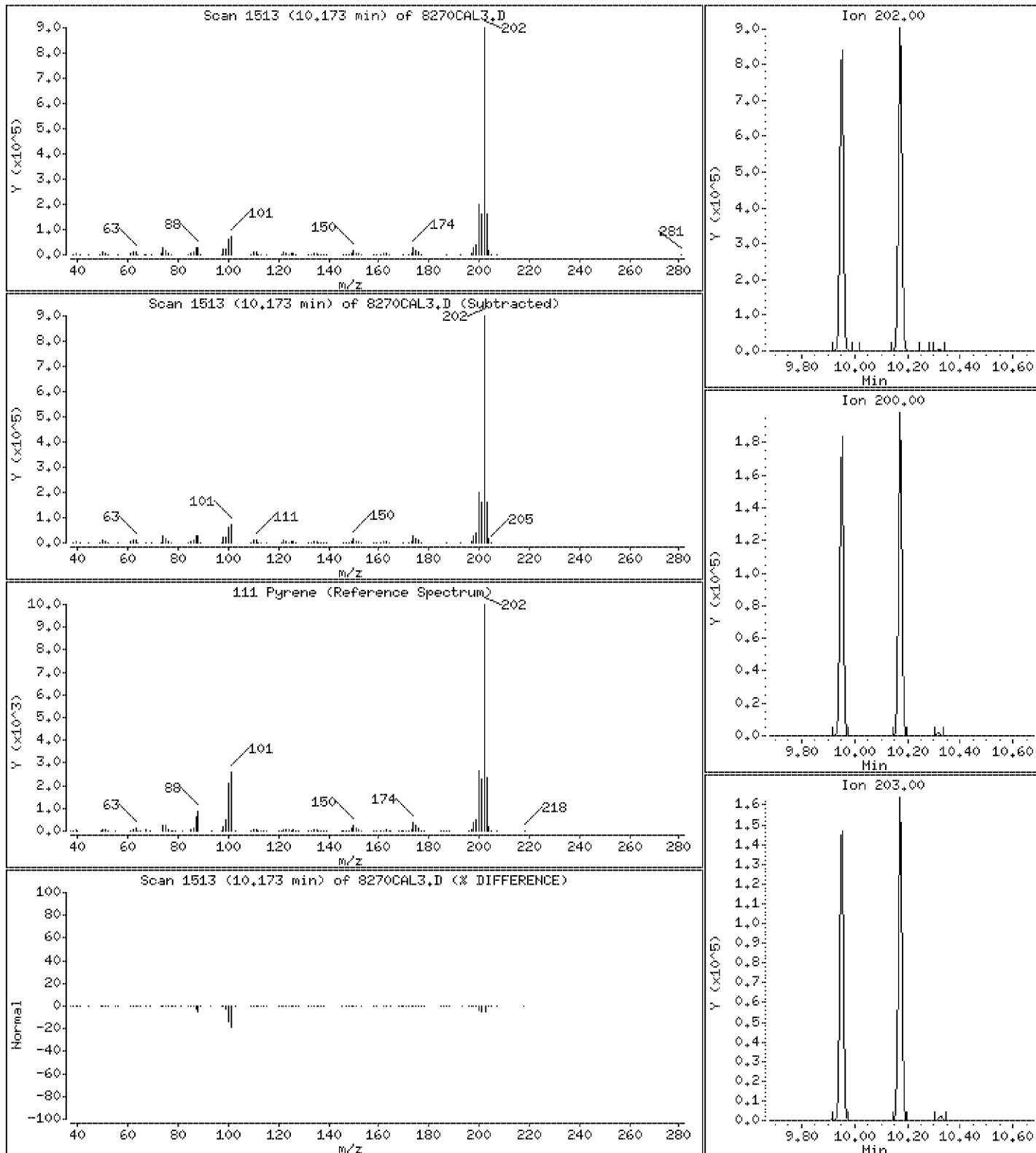
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

111 Pyrene

Concentration: 22.1 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

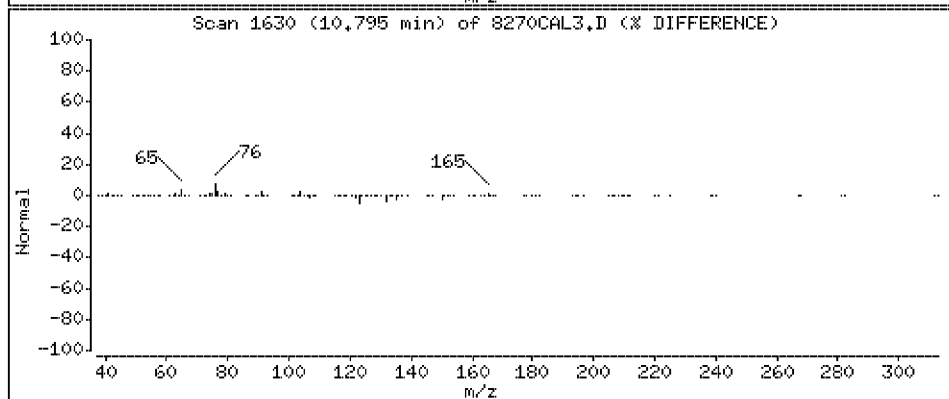
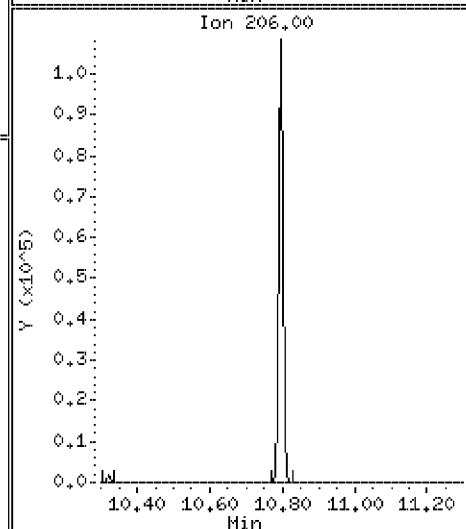
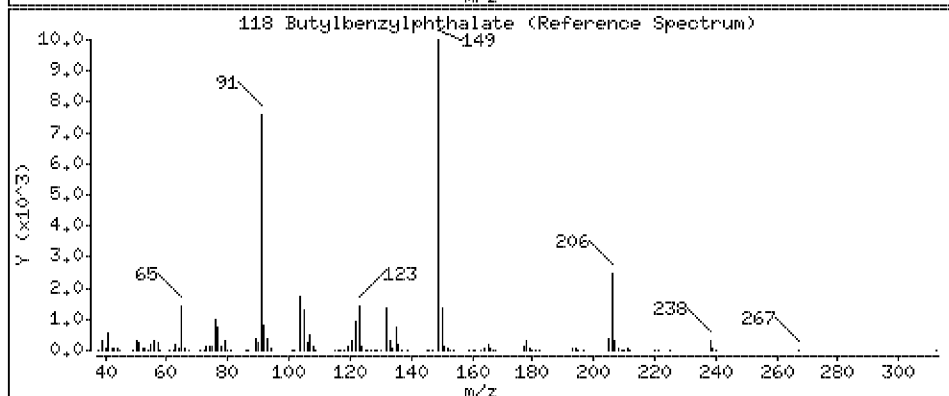
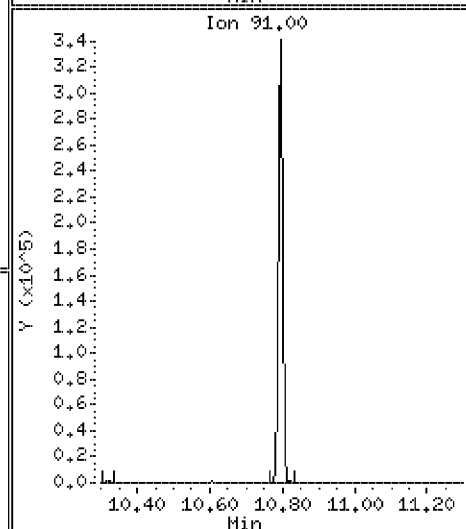
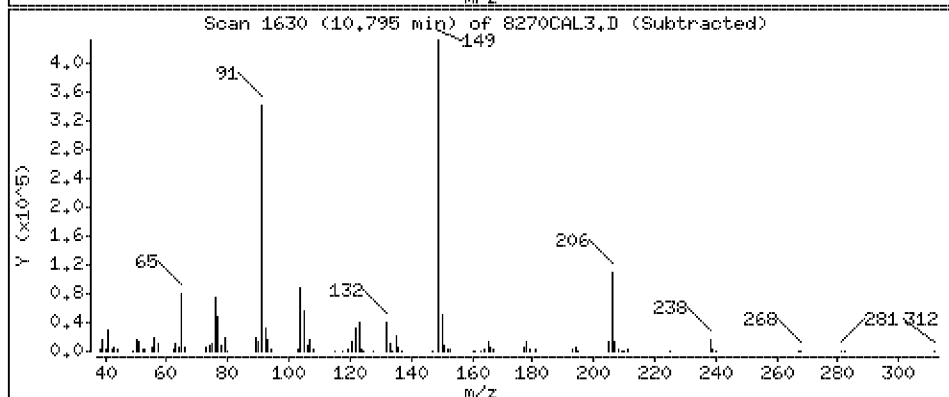
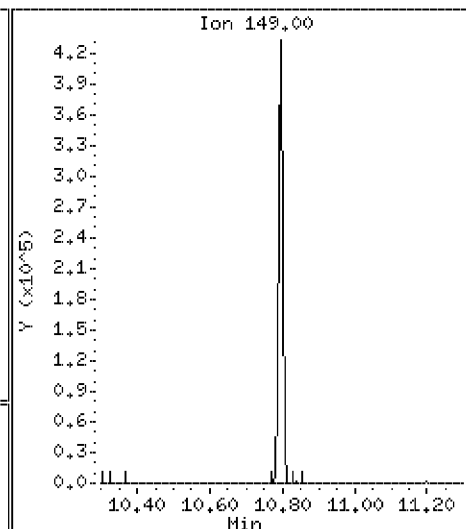
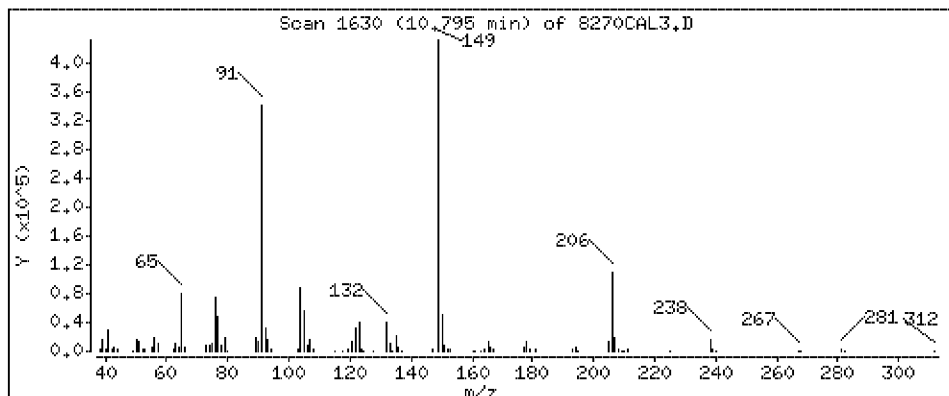
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

118 Butylbenzylphthalate

Concentration: 20.6 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

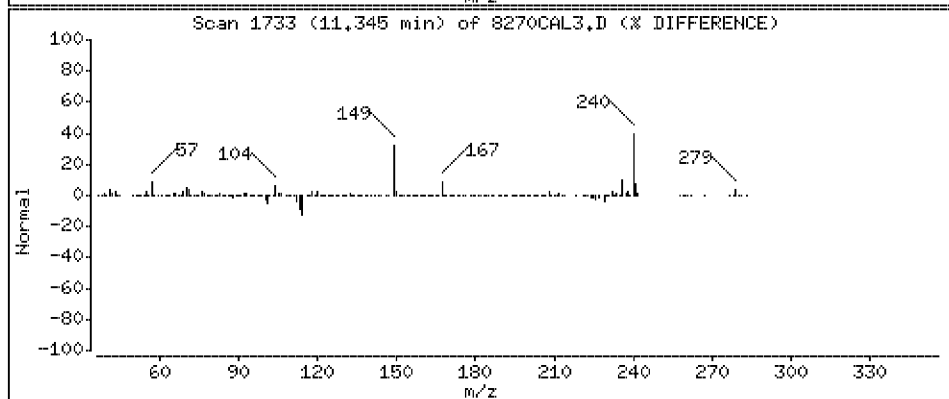
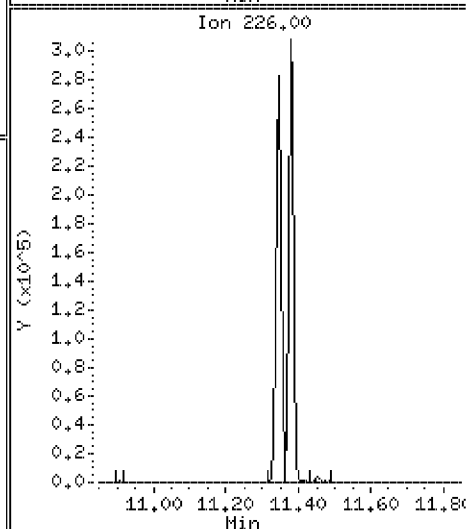
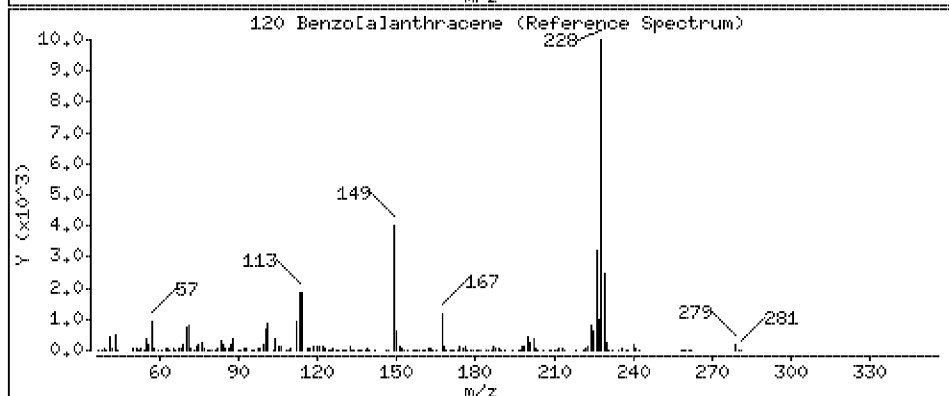
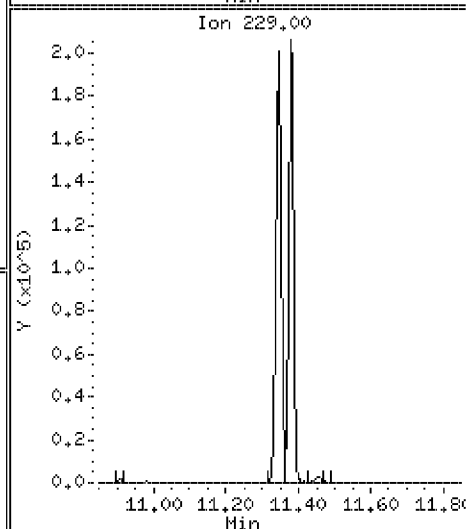
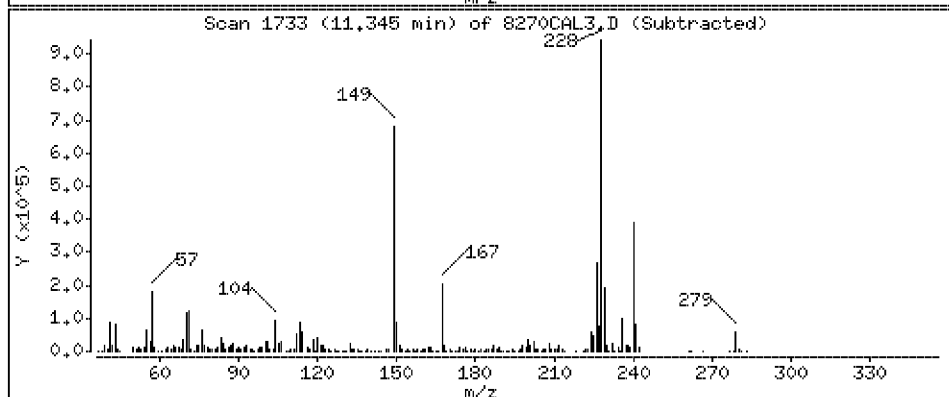
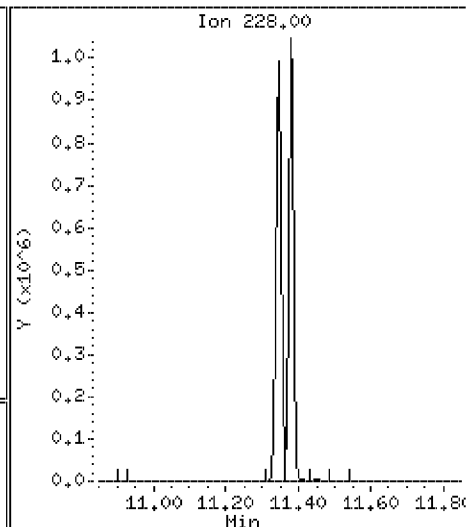
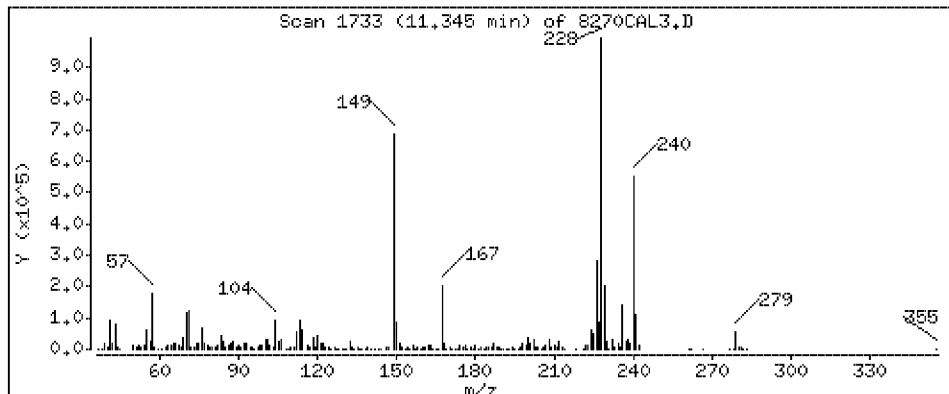
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

120 Benzo[*a*]anthracene

Concentration: 21.2 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

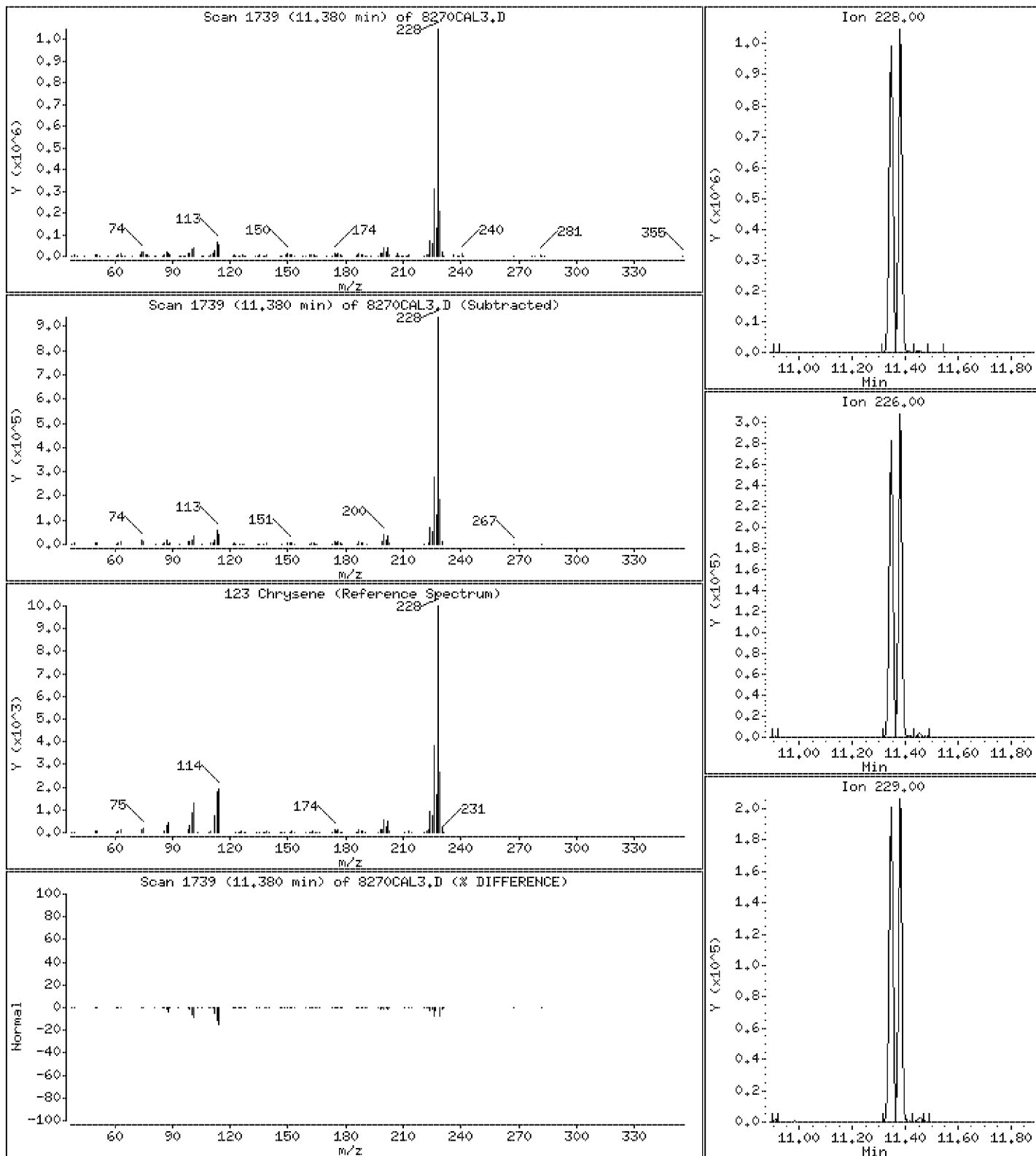
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

123 Chrysene

Concentration: 22.2 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

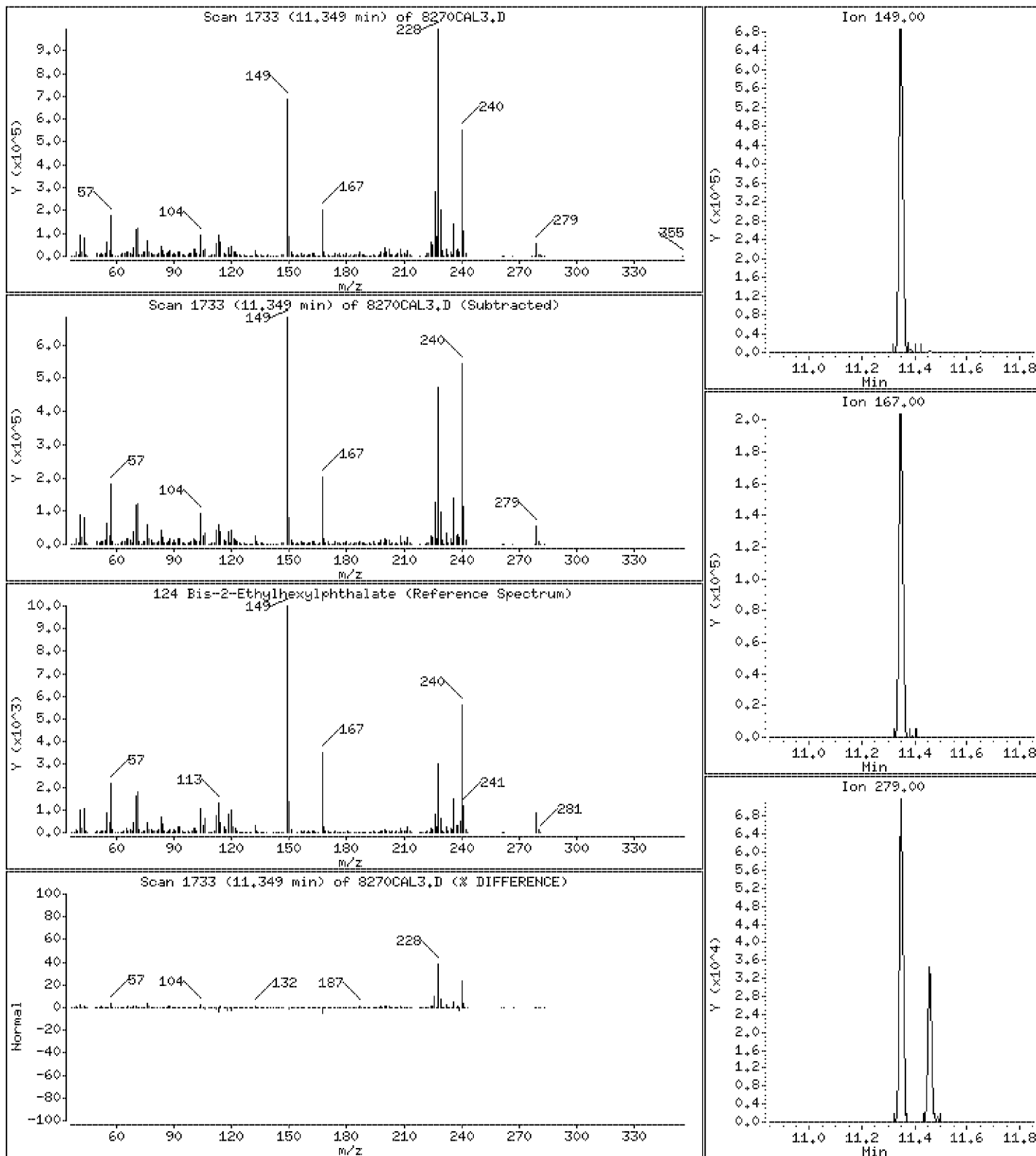
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

124 Bis-2-Ethylhexylphthalate

Concentration: 20.5 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

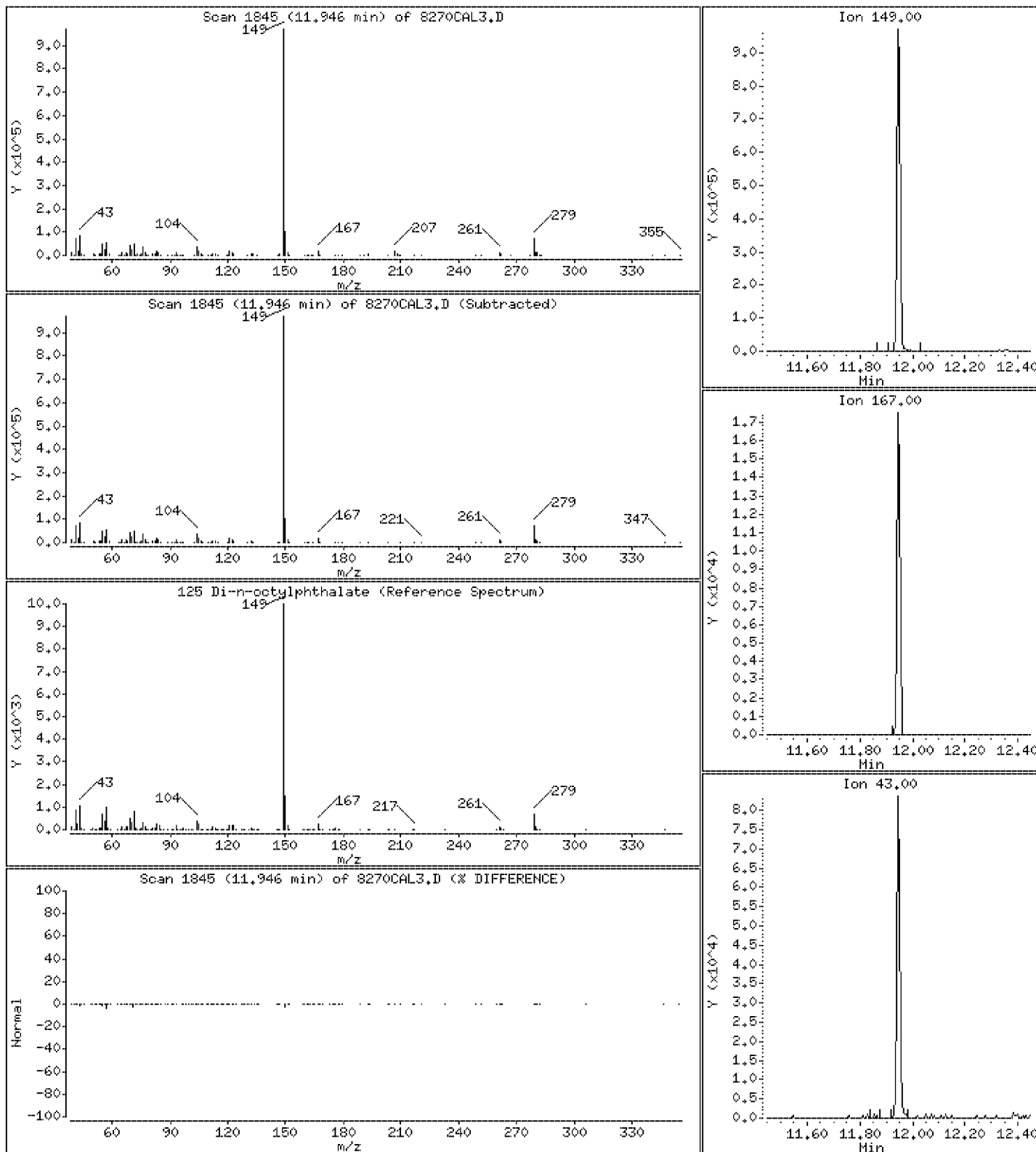
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

125 Di-n-octylphthalate

Concentration: 20.3 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

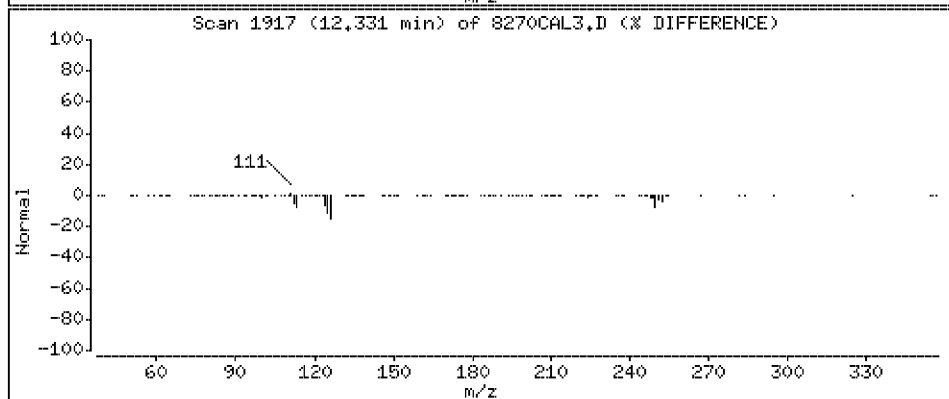
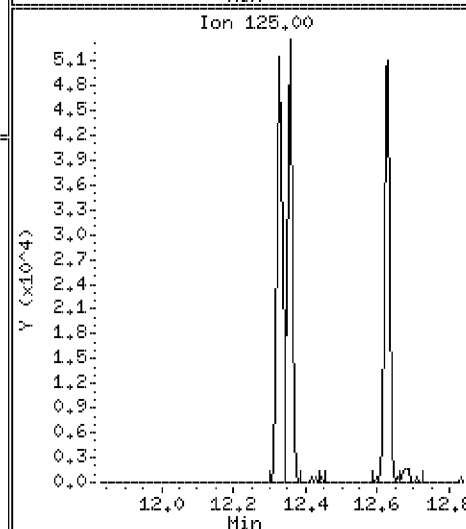
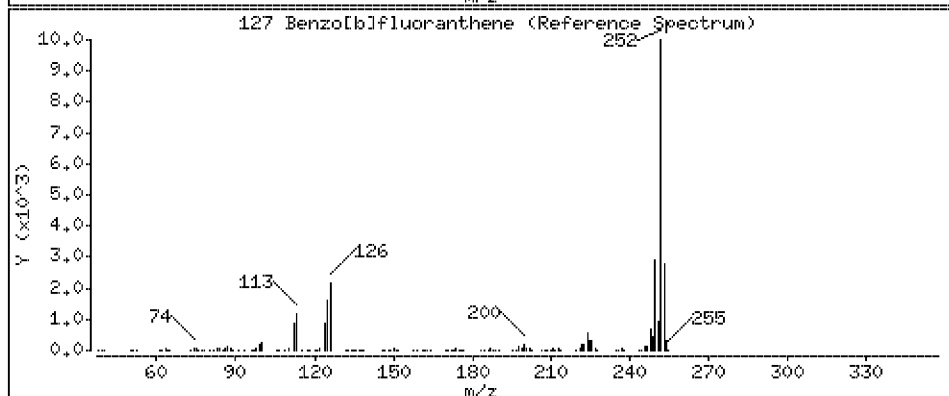
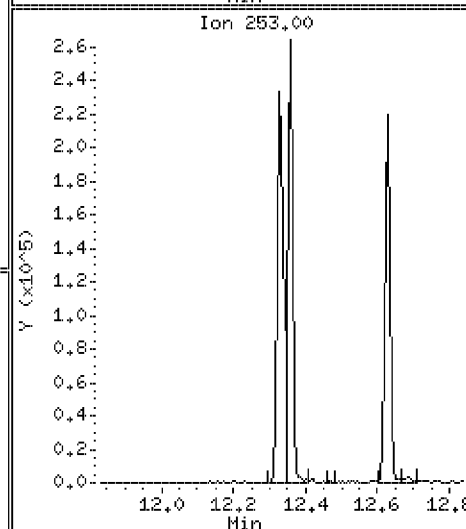
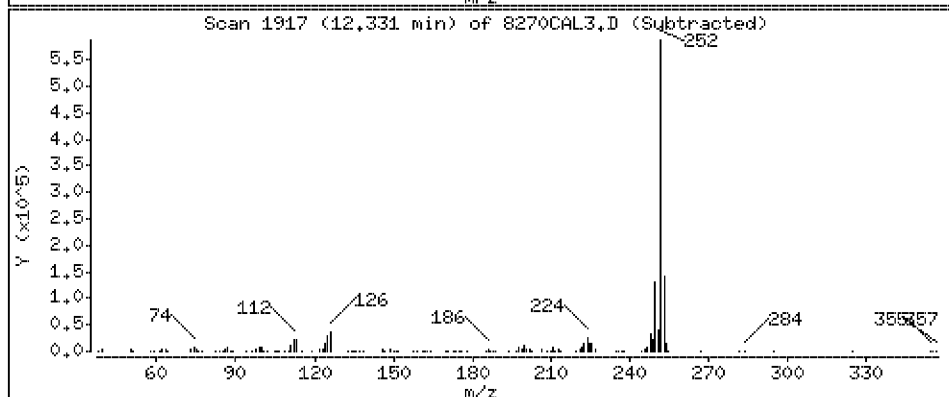
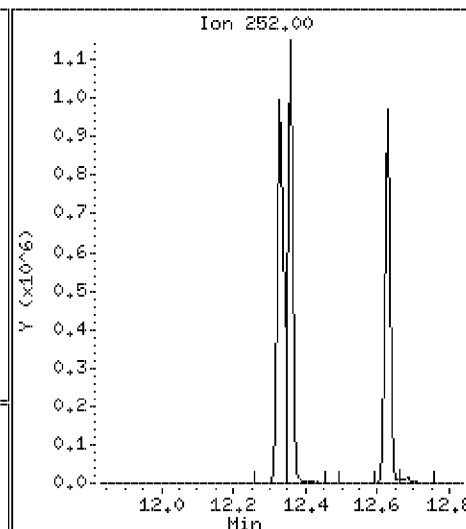
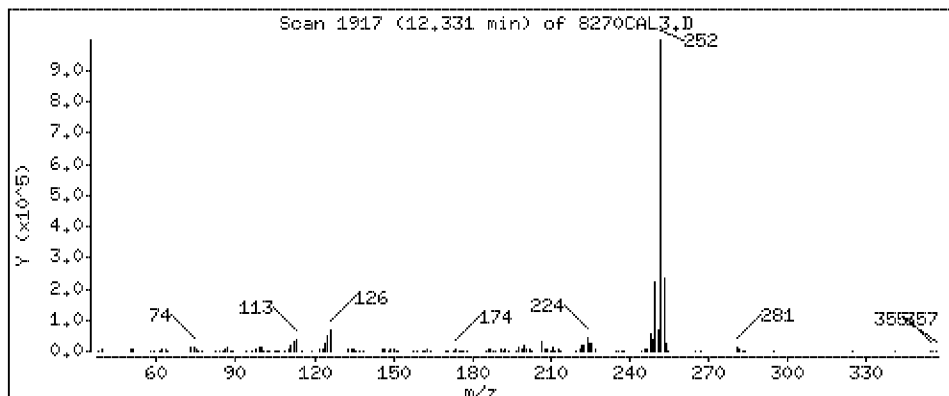
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

127 Benzo[b]fluoranthene

Concentration: 20.2 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

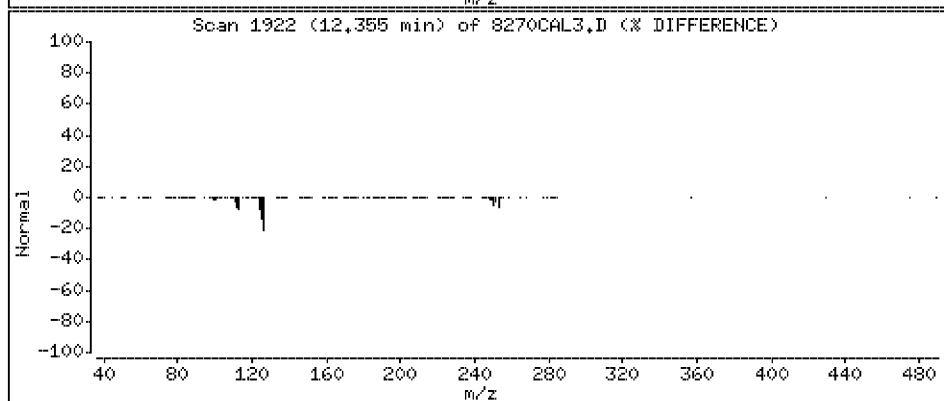
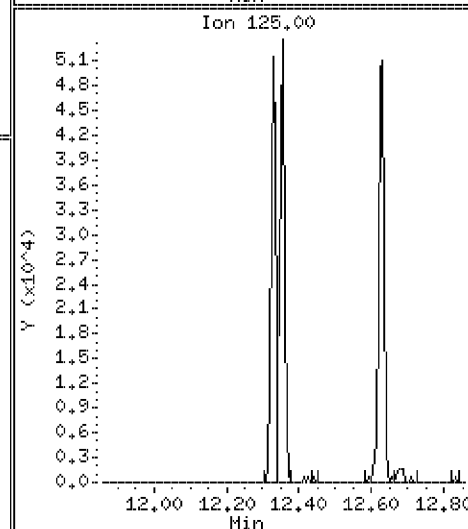
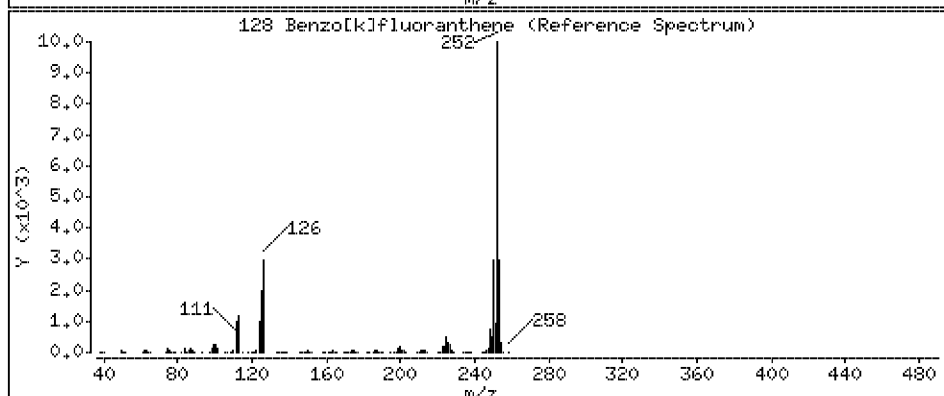
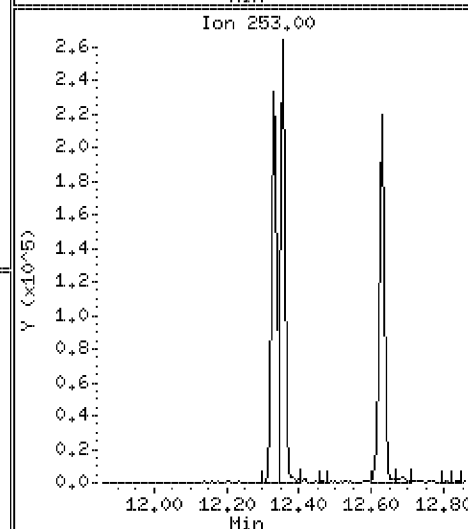
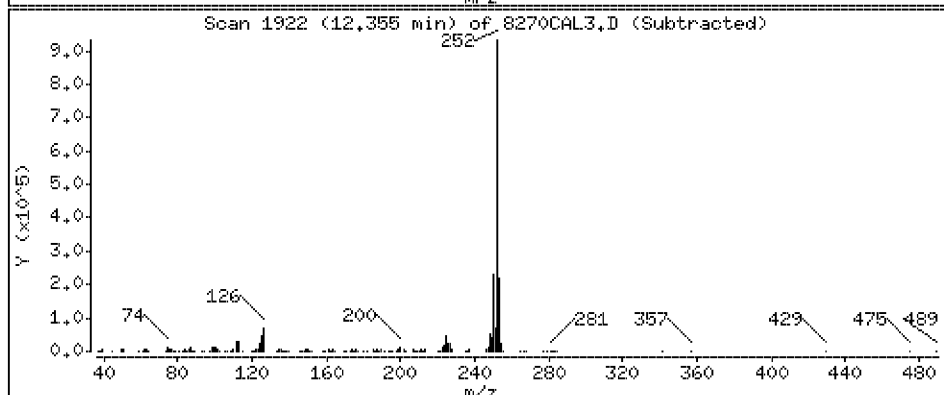
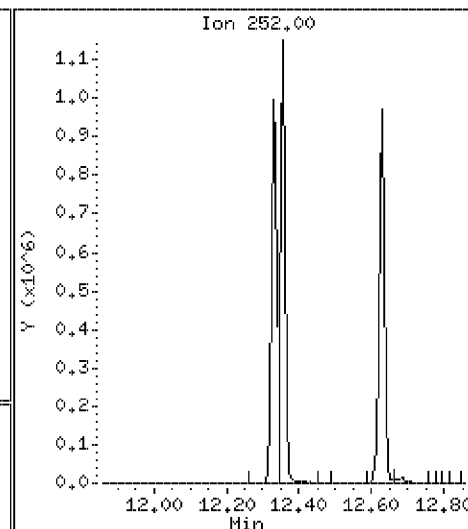
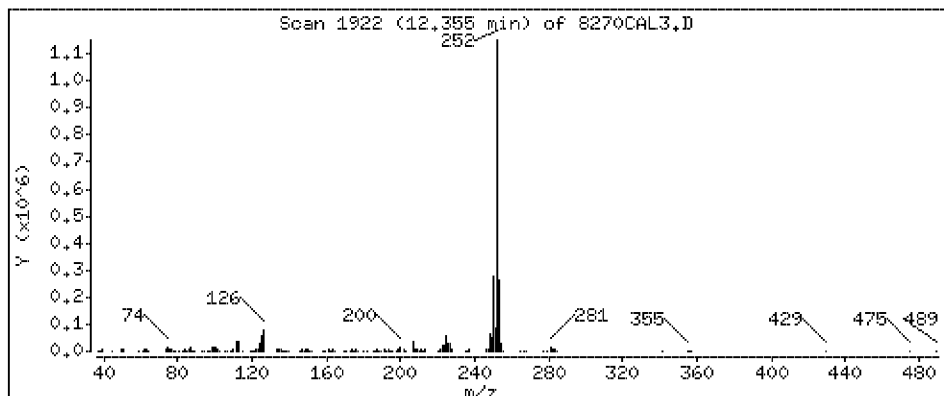
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

128 Benzo[k]fluoranthene

Concentration: 20.3 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

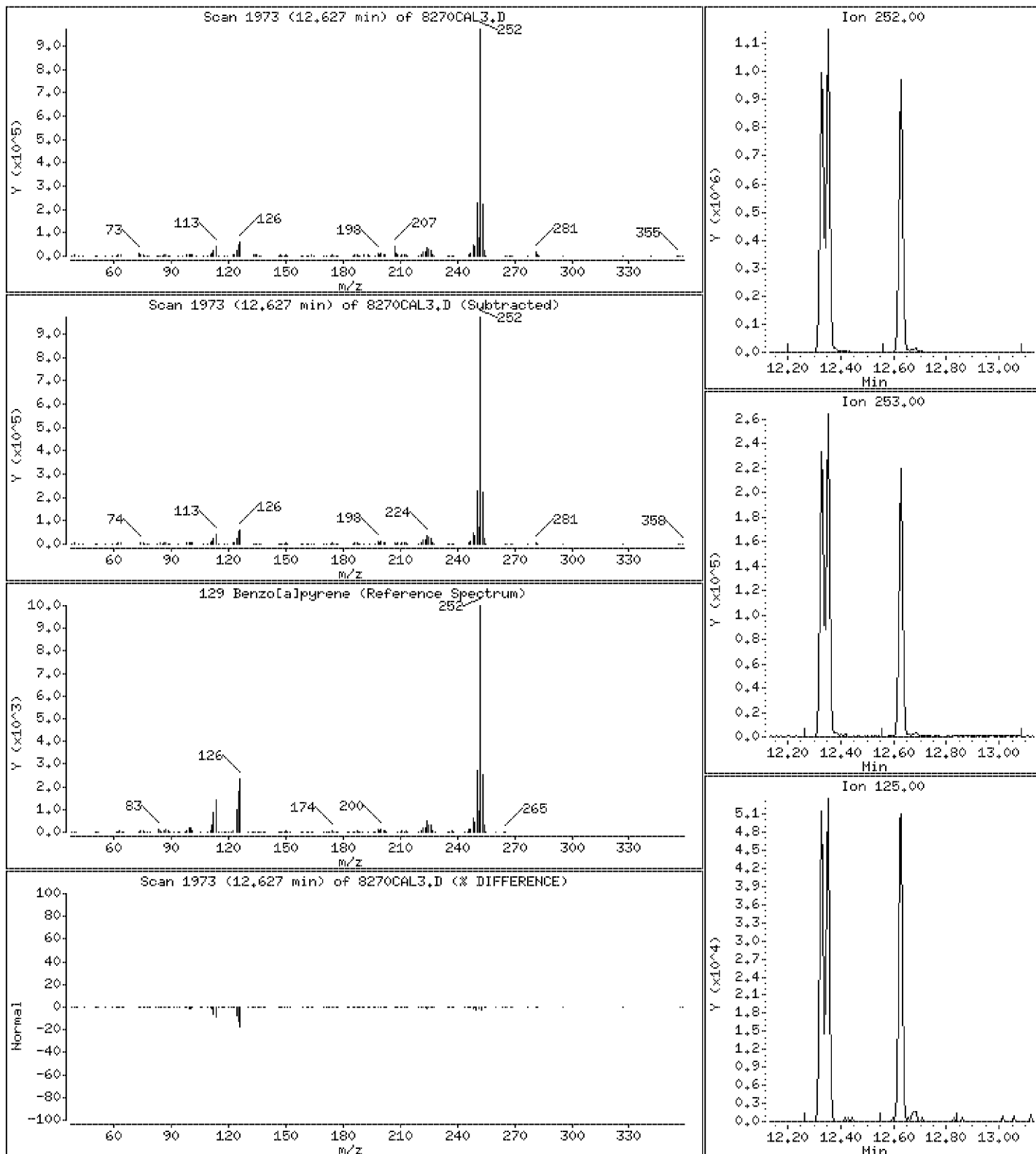
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

129 Benzo[a]pyrene

Concentration: 20.4 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

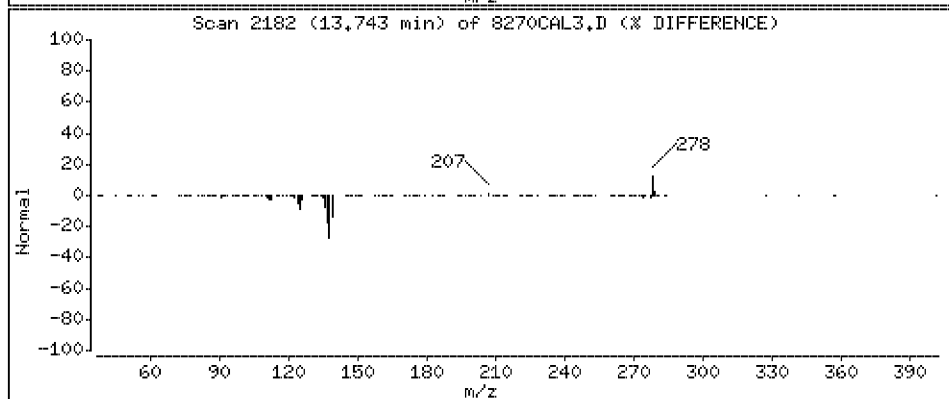
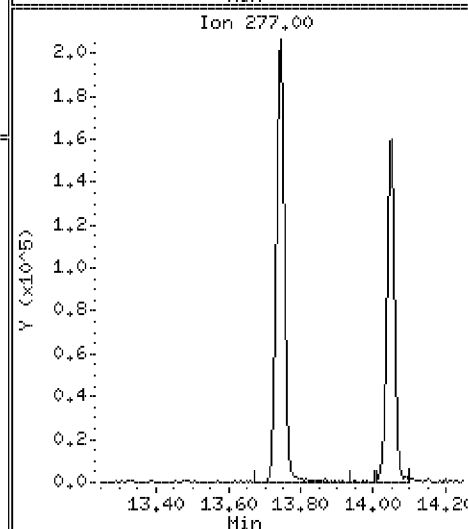
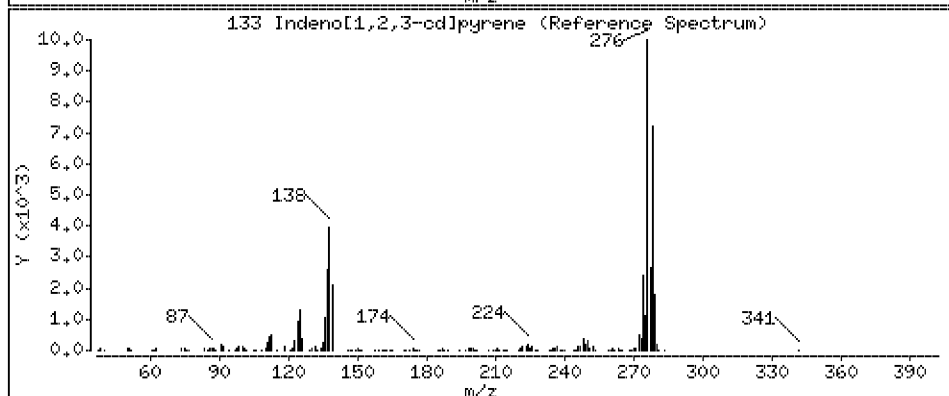
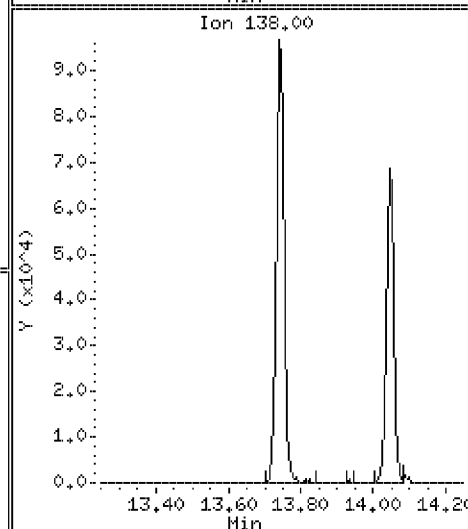
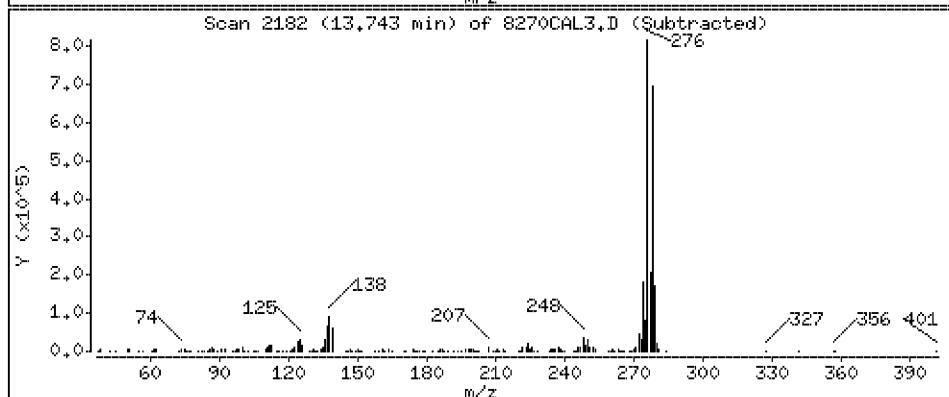
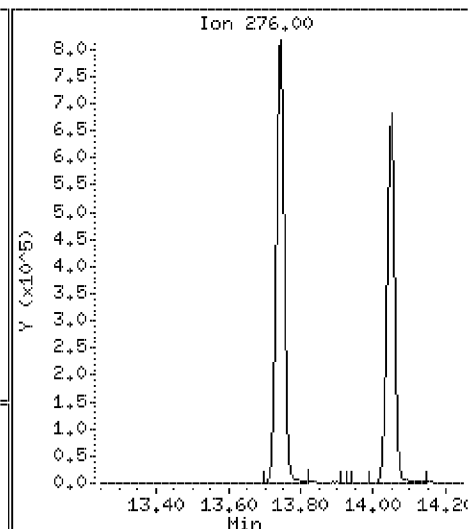
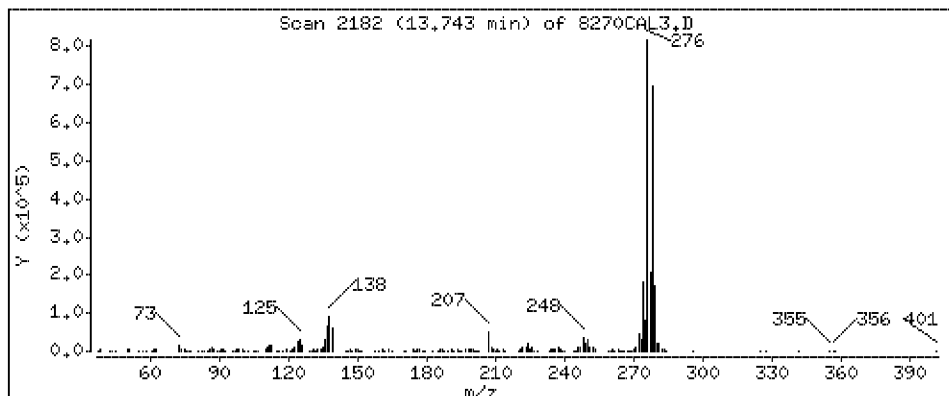
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

133 Indeno[1,2,3-cd]pyrene

Concentration: 20.4 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

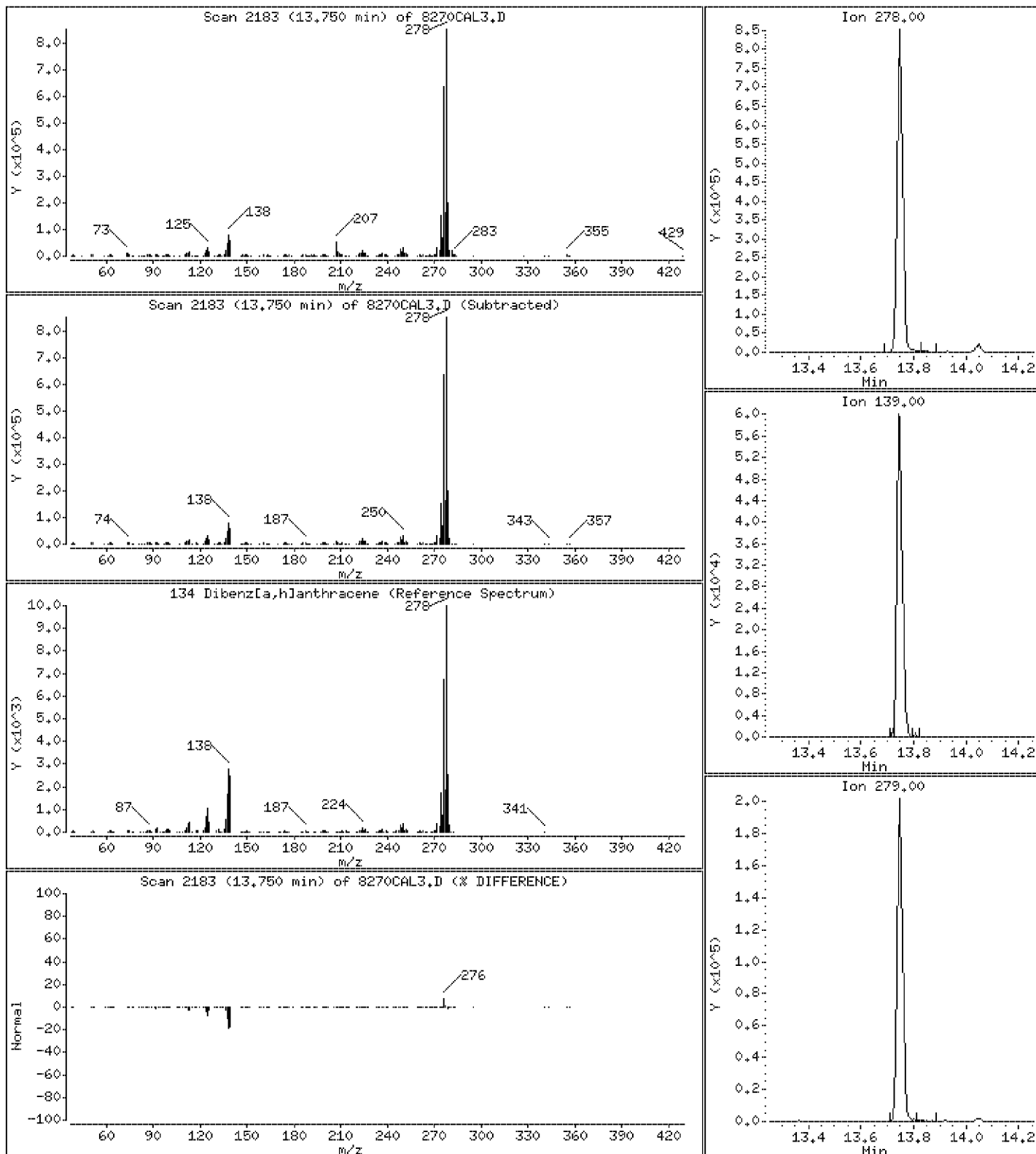
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

134 Dibenz[a,h]anthracene

Concentration: 20.3 ug/l



Date : 23-APR-2012 11:58

Client ID: 8270CAL3

Instrument: smsd03.i

Sample Info: 45925

Purge Volume: 1000.0

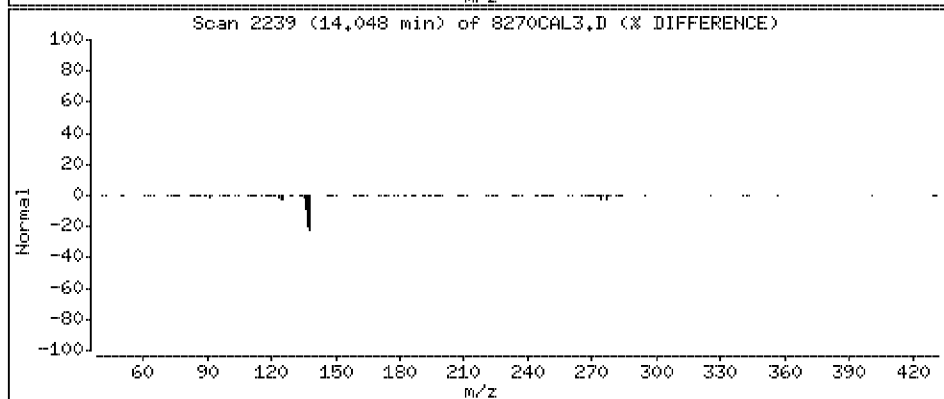
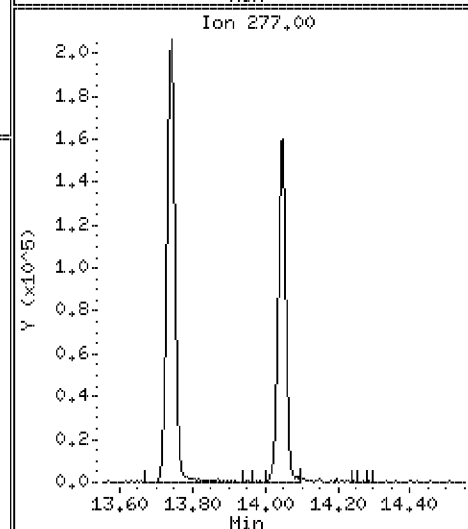
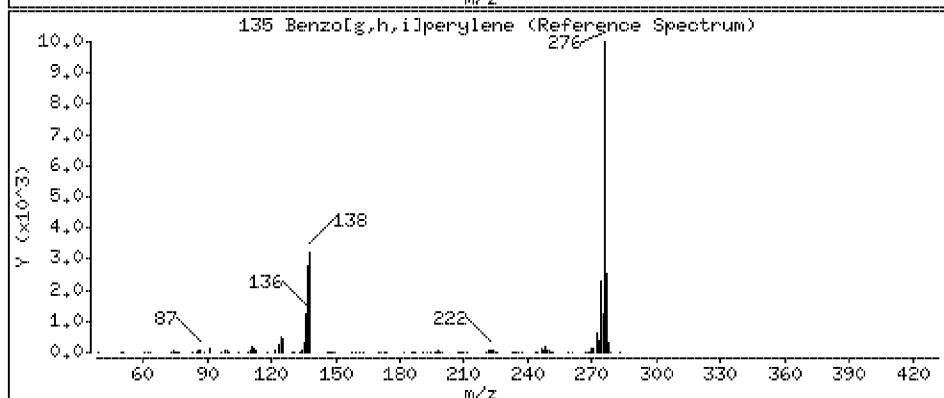
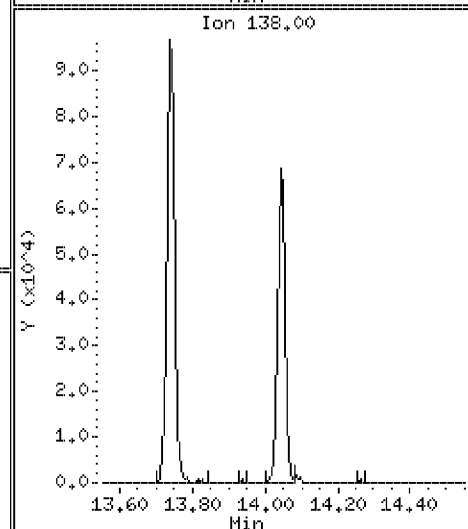
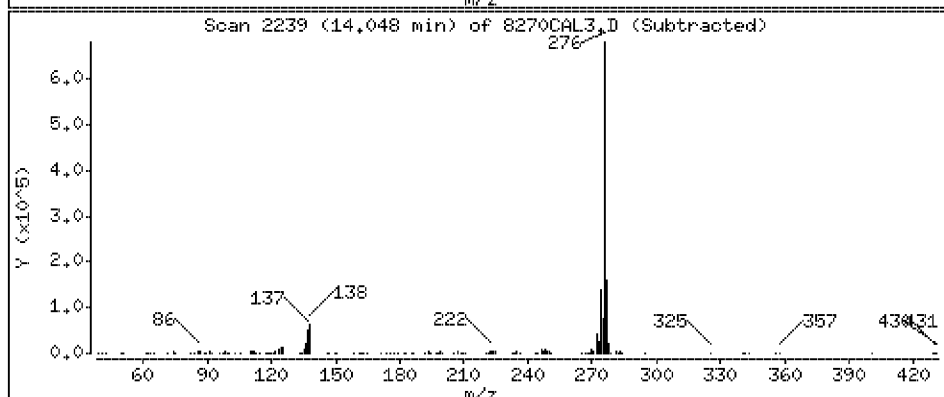
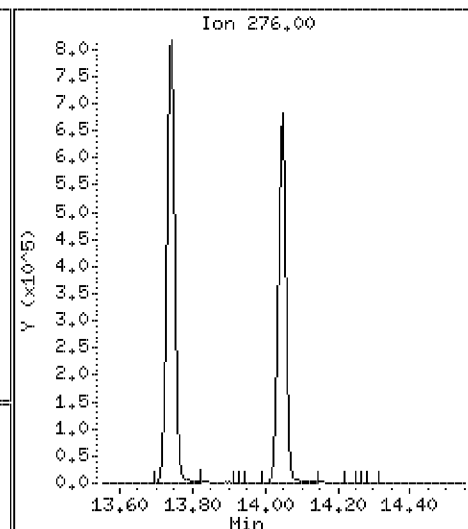
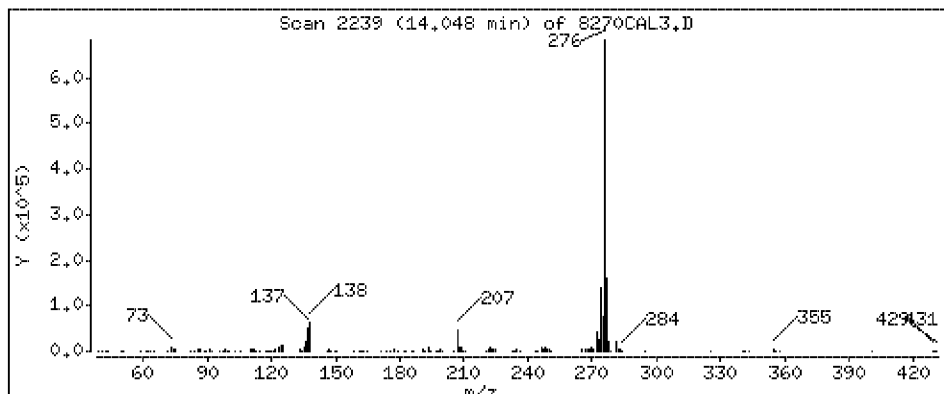
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

135 Benzo[g,h,i]perylene

Concentration: 21.6 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270CAL2.D
 Lab Smp Id: 45926 Client Smp ID: 8270CAL2
 Inj Date : 23-APR-2012 12:21 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 45926
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270bcs.m
 Meth Date : 25-Apr-2012 09:57 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 12:21 Cal File: 8270CAL2.D
 Als bottle: 6 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: 8270caln.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
2 Pyridine CAS #: 110-86-1									
2.392	2.381	(0.538)	79	117814	10.0000	9.6	80.00- 120.00	100.00(M)	
2.394	2.381	(0.538)	52	42110			7.01- 67.01	35.74	
M 16 Cresols (Total) CAS #: 1319-77-3									
				192260	20.0000			(a)	
1 N-Nitrosodimethylamine CAS #: 62-75-9									
2.341	2.338	(0.527)	42	56981	10.0000	10.3	80.00- 120.00	100.00	
2.341	2.338	(0.526)	74	72517			112.35- 172.35	127.27	
2.340	2.338	(0.526)	44	4292			0.00- 34.21	7.53	
\$ 6 2-Fluorophenol (SURR) CAS #: 367-12-4									
3.386	3.383	(0.761)	112	176705	20.0000	18.8	80.00- 120.00	100.00	
3.386	3.383	(0.761)	64	111416			33.15- 93.15	63.05	
\$ 11 Phenol-d5 (SURR) CAS #: 4165-62-2									
4.139	4.139	(0.931)	99	234653	20.0000	18.6	80.00- 120.00	100.00	
4.139	4.139	(0.931)	42	47763			0.00- 48.89	20.35	
4.139	4.139	(0.931)	71	128843			23.76- 83.76	54.91	
13 Phenol CAS #: 108-95-2									
4.151	4.151	(0.933)	94	129473	10.0000	9.0	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	
13 Phenol (continued)									
4.157	4.151	(0.935)	65	80899			31.39- 91.39	62.48	
4.159	4.151	(0.935)	66	152432			81.48- 141.48	117.73	

10 Aniline CAS #: 62-53-3									
4.165	4.166	(0.936)	93	144173	10.0000	9.5	80.00- 120.00	100.00	
4.157	4.166	(0.935)	65	80895			26.91- 86.91	56.11	
4.159	4.166	(0.935)	66	152429			73.34- 133.34	105.73	

14 Bis(2-Chloroethyl)ether CAS #: 111-44-4									
4.206	4.210	(0.946)	93	87919	10.0000	9.8	80.00- 120.00	100.00	
4.206	4.210	(0.946)	63	64914			42.30- 102.30	73.83	
4.206	4.210	(0.946)	95	25778			1.53- 61.53	29.32	

15 2-Chlorophenol CAS #: 95-57-8									
4.277	4.278	(0.962)	128	85875	10.0000	9.1	80.00- 120.00	100.00	
4.277	4.278	(0.962)	64	49105			20.72- 80.72	57.18	
4.277	4.278	(0.962)	130	30354			2.39- 62.39	35.35	

17 1,3-Dichlorobenzene CAS #: 541-73-1									
4.400	4.401	(0.990)	146	104784	10.0000	9.1	80.00- 120.00	100.00	
4.400	4.401	(0.989)	148	73832			36.16- 96.16	70.46	
4.400	4.401	(0.989)	111	50145			16.14- 76.14	47.86	

* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.447	4.448	(1.000)	152	325790	40.0000		80.00- 120.00	100.00	
4.446	4.448	(1.000)	115	204577			32.20- 92.20	62.79	
4.447	4.448	(1.000)	150	499662			139.77- 199.77	153.37	

19 1,4-Dichlorobenzene CAS #: 106-46-7									
4.461	4.462	(1.003)	146	116078	10.0000	9.5	80.00- 120.00	100.00	
4.461	4.462	(1.003)	148	73293			38.09- 98.09	63.14	
4.461	4.462	(1.003)	111	57290			14.50- 74.50	49.35	

21 Benzyl alcohol CAS #: 100-51-6									
4.563	4.567	(1.026)	108	58008	10.0000	9.0	80.00- 120.00	100.00	
4.563	4.567	(1.026)	79	104394			152.29- 212.29	179.96	
4.563	4.567	(1.026)	77	75813			97.26- 157.26	130.69	

20 1,2-Dichlorobenzene CAS #: 95-50-1									
4.599	4.599	(1.034)	146	107760	10.0000	9.7	80.00- 120.00	100.00	
4.599	4.599	(1.034)	148	72790			38.32- 98.32	67.55	
4.598	4.599	(1.034)	111	49155			18.14- 78.14	45.62	

22 2-Methylphenol CAS #: 95-48-7									
4.671	4.671	(1.050)	107	77780	10.0000	9.1	80.00- 120.00	100.00	
4.671	4.671	(1.050)	108	86295			82.43- 142.43	110.95	
4.672	4.671	(1.050)	79	67032			55.43- 115.43	86.18	

23 2,2'-oxybis(1-chloropropane) CAS #: 108-60-1									
4.675	4.675	(1.051)	45	57778	10.0000	9.2	80.00- 120.00	100.00	
4.671	4.675	(1.050)	77	76782			102.98- 162.98	132.89	
4.676	4.675	(1.051)	121	30188			24.22- 84.22	52.25	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
28 4-Methylphenol CAS #: 106-44-5									
4.806	4.808	(1.081)	107	114480	10.0000	9.3	80.00- 120.00	100.00	
4.806	4.808	(1.081)	108	89754			50.54- 110.54	78.40	
4.806	4.808	(1.081)	79	37802			2.76- 62.76	33.02	

26 N-Nitrosodipropylamine CAS #: 621-64-7									
4.794	4.798	(1.078)	70	88633	10.0000	9.2	80.00- 120.00	100.00	
4.793	4.798	(1.078)	42	34248			6.87- 66.87	38.64	
4.794	4.798	(1.078)	130	16601			0.00- 49.23	18.73	

30 Hexachloroethane CAS #: 67-72-1									
4.901	4.902	(1.102)	117	45046	10.0000	9.4	80.00- 120.00	100.00	
4.902	4.902	(1.102)	201	53801			90.07- 150.07	119.44	
4.901	4.902	(1.102)	199	31943			43.69- 103.69	70.91	

\$ 31 Nitrobenzene-d5 (SURR) CAS #: 4165-60-0									
4.941	4.944	(0.881)	82	138346	10.0000	9.5	80.00- 120.00	100.00	
4.941	4.944	(0.881)	128	45448			2.76- 62.76	32.85	
4.941	4.944	(0.881)	54	54200			7.08- 67.08	39.18	

32 Nitrobenzene CAS #: 98-95-3									
4.958	4.962	(0.884)	77	140775	10.0000	9.8	80.00- 120.00	100.00	
4.959	4.962	(0.884)	123	44372			4.18- 64.18	31.52	
4.957	4.962	(0.884)	65	20119			0.00- 45.17	14.29	

34 Isophorone CAS #: 78-59-1									
5.172	5.176	(0.922)	82	165809	10.0000	9.9	80.00- 120.00	100.00	
5.172	5.176	(0.922)	138	26382			0.00- 46.29	15.91	
5.172	5.176	(0.922)	95	13819			0.00- 39.21	8.33	

35 2-Nitrophenol CAS #: 88-75-5									
5.251	5.253	(0.936)	139	50516	10.0000	9.5	80.00- 120.00	100.00	
5.252	5.253	(0.936)	65	36508			43.34- 103.34	72.27	
5.253	5.253	(0.937)	109	24010			20.91- 80.91	47.53	

36 2,4-Dimethylphenol CAS #: 105-67-9									
5.291	5.294	(0.943)	122	77972	10.0000	9.6	80.00- 120.00	100.00	
5.291	5.294	(0.943)	107	110410			111.45- 171.45	141.60	
5.291	5.294	(0.943)	121	45280			28.89- 88.89	58.07	

38 Bis(2-Chloroethoxy)methane CAS #: 111-91-1									
5.367	5.369	(0.957)	93	112726	10.0000	9.5	80.00- 120.00	100.00	
5.367	5.369	(0.957)	95	36561			3.06- 63.06	32.43	
5.367	5.369	(0.957)	123	13946			0.00- 44.40	12.37	

40 Benzoic Acid CAS #: 65-85-0									
5.361	5.404	(0.956)	122	37071	10.0000	10.2	80.00- 120.00	100.00	
5.360	5.404	(0.956)	105	52602			107.67- 167.67	141.90	
5.359	5.404	(0.955)	77	49316			104.37- 164.37	133.03	

41 2,4-Dichlorophenol CAS #: 120-83-2									
5.489	5.490	(0.979)	162	93409	10.0000	9.7	80.00- 120.00	100.00	
5.489	5.490	(0.979)	164	60477			36.50- 96.50	64.74	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
41 2,4-Dichlorophenol (continued)									
5.489	5.490	(0.979)	98	31227			5.73- 65.73	33.43	

42 1,2,4-Trichlorobenzene CAS #: 120-82-1									
5.553	5.555	(0.990)	180	115792	10.0000	9.6	80.00- 120.00	100.00	
5.553	5.555	(0.990)	182	110628			67.47- 127.47	95.54	
5.553	5.555	(0.990)	145	31799			0.00- 58.13	27.46	

* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.608	5.610	(1.000)	136	1075529	40.0000		80.00- 120.00	100.00	
5.608	5.610	(1.000)	68	59841			0.00- 35.51	5.56	

44 Naphthalene CAS #: 91-20-3									
5.628	5.630	(1.004)	128	265795	10.0000	9.6	80.00- 120.00	100.00	
5.627	5.630	(1.003)	129	31606			0.00- 41.28	11.89	
5.628	5.630	(1.004)	127	33601			0.00- 43.27	12.64	

45 4-Chloroaniline CAS #: 106-47-8									
5.679	5.681	(1.013)	127	109943	10.0000	9.5	80.00- 120.00	100.00	
5.680	5.681	(1.013)	129	36071			2.39- 62.39	32.81	
5.679	5.681	(1.012)	65	45243			11.54- 71.54	41.15	

48 Hexachlorobutadiene CAS #: 87-68-3									
5.745	5.746	(1.024)	225	84668	10.0000	9.2	80.00- 120.00	100.00	
5.745	5.746	(1.024)	223	52820			32.02- 92.02	62.38	
5.746	5.746	(1.024)	227	56330			34.54- 94.54	66.53	

51 4-Chloro-3-methylphenol CAS #: 59-50-7									
6.159	6.158	(1.098)	107	86400	10.0000	9.3	80.00- 120.00	100.00	
6.160	6.158	(1.098)	144	21565			0.00- 55.95	24.96	
6.160	6.158	(1.098)	142	64604			44.47- 104.47	74.77	

53 2-Methylnaphthalene CAS #: 91-57-6									
6.287	6.289	(1.121)	142	188199	10.0000	9.4	80.00- 120.00	100.00	
6.287	6.289	(1.121)	141	164214			58.08- 118.08	87.26	

54 1-Methylnaphthalene CAS #: 90-12-0									
6.384	6.385	(1.138)	142	170609	10.0000	9.4	80.00- 120.00	100.00	
6.384	6.385	(1.138)	141	153523			61.72- 121.72	89.99	

55 Hexachlorocyclopentadiene CAS #: 77-47-4									
6.444	6.445	(0.882)	237	104789	10.0000	9.1	80.00- 120.00	100.00	
6.443	6.445	(0.882)	235	63938			33.37- 93.37	61.02	
6.444	6.445	(0.882)	272	13301			0.00- 43.74	12.69	

57 2,4,6-Trichlorophenol CAS #: 88-06-2									
6.623	6.620	(0.907)	196	84655	10.0000	9.3	80.00- 120.00	100.00	
6.623	6.620	(0.907)	198	79539			67.07- 127.07	93.96	
6.623	6.620	(0.907)	200	25120			1.30- 61.30	29.67	

58 2,4,5-Trichlorophenol CAS #: 95-95-4									
6.569	6.570	(0.899)	196	80115	10.0000	9.5	80.00- 120.00	100.00	
6.569	6.570	(0.899)	198	78540			69.46- 129.46	98.03	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
58 2,4,5-Trichlorophenol (continued)									
6.568	6.570	(0.899)	97	48843			34.72- 94.72	60.97	

\$ 59 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.642	6.644	(0.909)	172	270083	10.0000	9.5	80.00- 120.00	100.00	
6.641	6.644	(0.909)	171	91008			5.03- 65.03	33.70	

62 2-Chloronaphthalene CAS #: 91-58-7									
6.760	6.763	(0.926)	162	201795	10.0000	9.4	80.00- 120.00	100.00	
6.760	6.763	(0.926)	164	66654			4.20- 64.20	33.03	
6.760	6.763	(0.926)	127	77623			7.85- 67.85	38.47	

63 2-Nitroaniline CAS #: 88-74-4									
6.864	6.869	(0.940)	65	70973	10.0000	9.6	80.00- 120.00	100.00	
6.865	6.869	(0.940)	92	41821			30.25- 90.25	58.93	
6.865	6.869	(0.940)	138	56698			52.43- 112.43	79.89	

65 Dimethylphthalate CAS #: 131-11-3									
7.035	7.040	(0.963)	163	240332	10.0000	9.8	80.00- 120.00	100.00	
7.036	7.040	(0.963)	194	13665			0.00- 35.55	5.69	
7.035	7.040	(0.963)	164	25443			0.00- 40.55	10.59	

68 Acenaphthylene CAS #: 208-96-8									
7.164	7.167	(0.981)	152	303182	10.0000	9.6	80.00- 120.00	100.00	
7.164	7.167	(0.981)	151	60048			0.00- 50.50	19.81	
7.165	7.167	(0.981)	153	40860			0.00- 43.76	13.48	

67 2,6-Dinitrotoluene CAS #: 606-20-2									
7.096	7.100	(0.972)	165	52360	10.0000	9.4	80.00- 120.00	100.00	
7.095	7.100	(0.971)	89	39177			49.02- 109.02	74.82	
7.095	7.100	(0.971)	63	39475			44.86- 104.86	75.39	

69 3-Nitroaniline CAS #: 99-09-2									
7.266	7.271	(0.995)	138	46536	10.0000	9.4	80.00- 120.00	100.00	
7.267	7.271	(0.995)	108	4562			0.00- 41.32	9.80	
7.265	7.271	(0.995)	92	59663			100.05- 160.05	128.21	

* 70 Acenaphthene-d10 CAS #: 15067-26-2									
7.303	7.305	(1.000)	164	731402	40.0000		80.00- 120.00	100.00	
7.303	7.305	(1.000)	162	692553			64.73- 124.73	94.69	
7.304	7.305	(1.000)	160	316009			12.46- 72.46	43.21	

71 Acenaphthene CAS #: 83-32-9									
7.334	7.338	(1.004)	154	180453	10.0000	9.4	80.00- 120.00	100.00	
7.334	7.338	(1.004)	153	193707			78.46- 138.46	107.34	
7.334	7.338	(1.004)	152	94915			23.44- 83.44	52.60	

72 2,4-Dinitrophenol CAS #: 51-28-5									
7.366	7.369	(1.009)	184	17282	10.0000	11.1	80.00- 120.00	100.00	
7.365	7.369	(1.008)	63	13239			48.07- 108.07	76.61	
7.366	7.369	(1.009)	154	12100			39.61- 99.61	70.02	

74 4-Nitrophenol CAS #: 100-02-7									
7.481	7.476	(1.024)	109	51452	10.0000	9.6	80.00- 120.00	100.00(Q)	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
74 4-Nitrophenol (continued)									
7.502	7.476	(1.027)	139	156610			26.63- 86.63	304.38	
7.481	7.476	(1.024)	65	54818			81.59- 141.59	106.54	

75 Dibenzofuran CAS #: 132-64-9									
7.503	7.506	(1.027)	168	299779	10.0000	9.6	80.00- 120.00	100.00	
7.502	7.506	(1.027)	139	156612			12.75- 72.75	52.24	

76 2,4-Dinitrotoluene CAS #: 121-14-2									
7.489	7.494	(1.025)	165	72890	10.0000	9.3	80.00- 120.00	100.00	
7.488	7.494	(1.025)	63	83374			82.10- 142.10	114.38	
7.489	7.494	(1.025)	89	75500			72.08- 132.08	103.58	

80 Diethylphthalate CAS #: 84-66-2									
7.723	7.729	(1.057)	149	223925	10.0000	9.8	80.00- 120.00	100.00	
7.724	7.729	(1.058)	177	50913			0.00- 53.36	22.74	
7.723	7.729	(1.057)	150	28131			0.00- 42.43	12.56	

81 Fluorene CAS #: 86-73-7									
7.838	7.841	(1.073)	166	245687	10.0000	9.1	80.00- 120.00	100.00	
7.838	7.841	(1.073)	165	231763			65.55- 125.55	94.33	
7.838	7.841	(1.073)	167	33781			0.00- 44.15	13.75	

82 4-Chlorophenyl-phenylether CAS #: 7005-72-3									
7.835	7.838	(1.073)	204	143908	10.0000	8.8	80.00- 120.00	100.00	
7.836	7.838	(1.073)	206	47162			4.27- 64.27	32.77	
7.835	7.838	(1.073)	141	79715			24.97- 84.97	55.39	

84 4-Nitroaniline CAS #: 100-01-6									
7.865	7.874	(1.077)	138	39746	10.0000	9.3	80.00- 120.00	100.00	
7.863	7.874	(1.077)	92	24371			38.02- 98.02	61.32	
7.864	7.874	(1.077)	108	59332			124.92- 184.92	149.28	

85 4,6-Dinitro-2-methylphenol CAS #: 534-52-1									
7.889	7.896	(0.901)	198	41398	10.0000	10.4	80.00- 120.00	100.00	
7.886	7.896	(0.900)	51	15315			6.77- 66.77	36.99	
7.888	7.896	(0.901)	105	15920			8.50- 68.50	38.46	

86 N-Nitrosodiphenylamine CAS #: 86-30-6									
7.952	7.956	(0.908)	169	165449	10.0000	9.7	80.00- 120.00	100.00	
7.952	7.956	(0.908)	168	101318			36.61- 96.61	61.24	
7.952	7.956	(0.908)	167	61129			4.62- 64.62	36.95	

87 1,2-Diphenylhydrazine CAS #: 122-66-7									
7.990	7.992	(1.094)	77	265289	10.0000	10.1	80.00- 120.00	100.00	
7.990	7.992	(1.094)	105	32725			0.00- 43.34	12.34	
7.991	7.992	(1.094)	182	63773			0.00- 56.11	24.04	

\$ 88 2,4,6-Tribromophenol (SURR) CAS #: 118-79-6									
8.079	8.083	(1.106)	330	95369	20.0000	18.7	80.00- 120.00	100.00	
8.079	8.083	(1.106)	332	91661			66.43- 126.43	96.11	
8.077	8.083	(1.106)	141	36374			9.24- 69.24	38.14	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
93 4-Bromophenylphenylether						CAS #: 101-55-3			
8.315	8.318	(0.949)	248	92104	10.0000	9.3	80.00- 120.00	100.00	
8.315	8.318	(0.949)	250	89518			67.36- 127.36	97.19	
8.314	8.318	(0.949)	141	58171			35.77- 95.77	63.16	

94 Hexachlorobenzene						CAS #: 118-74-1			
8.383	8.387	(0.957)	284	102013	10.0000	9.0	80.00- 120.00	100.00	
8.381	8.387	(0.957)	142	31148			2.39- 62.39	30.53	
8.382	8.387	(0.957)	249	31275			0.06- 60.06	30.66	

96 Pentachlorophenol						CAS #: 87-86-5			
8.582	8.585	(0.980)	266	52387	10.0000	7.8	80.00- 120.00	100.00	
8.582	8.585	(0.980)	264	33999			33.70- 93.70	64.90	
8.582	8.585	(0.980)	268	34223			35.26- 95.26	65.33	

* 100 Phenanthrene-d10						CAS #: 1517-22-2			
8.759	8.761	(1.000)	188	1355574	40.0000		80.00- 120.00	100.00	
8.758	8.761	(1.000)	94	84005			0.00- 36.35	6.20	
8.758	8.761	(1.000)	80	108315			0.00- 37.82	7.99	

101 Phenanthrene						CAS #: 85-01-8			
8.781	8.785	(1.002)	178	341113	10.0000	9.8	80.00- 120.00	100.00	
8.781	8.785	(1.003)	179	52815			0.00- 46.33	15.48	
8.781	8.785	(1.002)	176	68293			0.00- 50.11	20.02	

103 Anthracene						CAS #: 120-12-7			
8.830	8.835	(1.008)	178	337445	10.0000	9.7	80.00- 120.00	100.00	
8.830	8.835	(1.008)	179	49534			0.00- 45.97	14.68	
8.830	8.835	(1.008)	176	63489			0.00- 49.80	18.81	

104 Carbazole						CAS #: 86-74-8			
8.991	8.996	(1.027)	167	289359	10.0000	10	80.00- 120.00	100.00	
8.991	8.996	(1.027)	139	37335			0.00- 43.89	12.90	
8.990	8.996	(1.026)	83	16588			0.00- 36.17	5.73	

105 Di-n-butylphthalate						CAS #: 84-74-2			
9.324	9.327	(1.064)	149	354871	10.0000	9.7	80.00- 120.00	100.00	
9.323	9.327	(1.064)	150	32504			0.00- 40.04	9.16	
9.324	9.327	(1.064)	104	26410			0.00- 37.79	7.44	

109 Fluoranthene						CAS #: 206-44-0			
9.949	9.953	(1.136)	202	390995	10.0000	9.8	80.00- 120.00	100.00	
9.948	9.953	(1.136)	101	24636			0.00- 36.69	6.30	
9.949	9.953	(1.136)	203	67497			0.00- 48.82	17.26	

111 Pyrene						CAS #: 129-00-0			
10.172	10.176	(0.896)	202	414985	10.0000	11.1	80.00- 120.00	100.00	
10.172	10.176	(0.896)	200	89614			0.00- 51.88	21.59	
10.172	10.176	(0.896)	203	76528			0.00- 49.33	18.44	

\$ 112 Terphenyl-d14 (SURR)						CAS #: 1718-51-0			
10.319	10.322	(0.909)	244	385517	10.0000	10.8	80.00- 120.00	100.00	
10.317	10.322	(0.909)	122	24452			0.00- 36.72	6.34	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 112 Terphenyl-d14 (SURR) (continued)									
10.319	10.322	(0.909)	212	29858			0.00- 38.06	7.74	

118 Butylbenzylphthalate					CAS #: 85-68-7				
10.794	10.798	(0.951)	149	162974	10.0000	10.0	80.00- 120.00	100.00	
10.794	10.798	(0.951)	91	133733			51.57- 111.57	82.06	
10.795	10.798	(0.951)	206	40478			0.00- 55.14	24.84	

120 Benzo[a]anthracene					CAS #: 56-55-3				
11.344	11.348	(0.999)	228	487758	10.0000	10.3	80.00- 120.00	100.00	
11.344	11.348	(0.999)	229	99444			0.00- 51.57	20.39	
11.344	11.348	(0.999)	226	131717			0.00- 58.54	27.00	

* 121 Chrysene-d12					CAS #: 1719-03-5				
11.354	11.359	(1.000)	240	1884223	40.0000		80.00- 120.00	100.00	
11.353	11.359	(1.000)	120	111743			0.00- 36.38	5.93	
11.355	11.359	(1.000)	236	498193			0.00- 57.06	26.44	

123 Chrysene					CAS #: 218-01-9				
11.378	11.384	(1.002)	228	450715	10.0000	10.9	80.00- 120.00	100.00	
11.378	11.384	(1.002)	226	134412			1.12- 61.12	29.82	
11.378	11.384	(1.002)	229	92214			0.00- 51.74	20.46	

124 Bis-2-Ethylhexylphthalate					CAS #: 117-81-7				
11.348	11.350	(0.999)	149	268270	10.0000	9.6	80.00- 120.00	100.00	
11.348	11.350	(0.999)	167	79158			2.07- 62.07	29.51	
11.349	11.350	(1.000)	279	23293			0.00- 39.24	8.68	

125 Di-n-octylphthalate					CAS #: 117-84-0				
11.945	11.948	(0.942)	149	384643	10.0000	9.5	80.00- 120.00	100.00	
11.944	11.948	(0.942)	167	5911			0.00- 31.74	1.54	
11.944	11.948	(0.942)	43	30190			0.00- 38.21	7.85	

127 Benzo[b]fluoranthene					CAS #: 205-99-2				
12.329	12.333	(0.972)	252	509272	10.0000	10.2	80.00- 120.00	100.00	
12.329	12.333	(0.972)	253	101736			0.00- 54.02	19.98	
12.327	12.333	(0.972)	125	24539			0.00- 34.93	4.82	

128 Benzo[k]fluoranthene					CAS #: 207-08-9				
12.353	12.359	(0.974)	252	499856	10.0000	10	80.00- 120.00	100.00	
12.353	12.359	(0.974)	253	112196			0.00- 53.57	22.45	
12.351	12.359	(0.974)	125	23156			0.00- 35.26	4.63	

129 Benzo[a]pyrene					CAS #: 50-32-8				
12.626	12.630	(0.996)	252	492957	10.0000	10.1	80.00- 120.00	100.00	
12.626	12.630	(0.996)	253	108558			0.00- 54.04	22.02	
12.624	12.630	(0.995)	125	24859			0.00- 35.52	5.04	

* 130 Perylene-d12					CAS #: 1520-96-3				
12.681	12.682	(1.000)	264	1880614	40.0000		80.00- 120.00	100.00	
12.682	12.682	(1.000)	260	464597			0.00- 54.80	24.70	
12.681	12.682	(1.000)	265	445013			0.00- 53.39	23.66	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
133 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5				
13.740	13.749	(1.083)	276	592745	10.0000	9.7	80.00- 120.00	100.00	
13.739	13.749	(1.083)	138	67601			0.00- 42.48	11.40	
13.739	13.749	(1.083)	277	151214			0.00- 56.82	25.51	

134 Dibenz[a,h]anthracene					CAS #: 53-70-3				
13.746	13.755	(1.084)	278	510618	10.0000	9.6	80.00- 120.00	100.00	
13.744	13.755	(1.084)	139	36085			0.00- 37.70	7.07	
13.746	13.755	(1.084)	279	119952			0.00- 54.57	23.49	

135 Benzo[g,h,i]perylene					CAS #: 191-24-2				
14.042	14.053	(1.107)	276	488208	10.0000	10.5	80.00- 120.00	100.00	
14.043	14.053	(1.107)	138	48490			0.00- 40.01	9.93	
14.042	14.053	(1.107)	277	116731			0.00- 54.80	23.91	

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

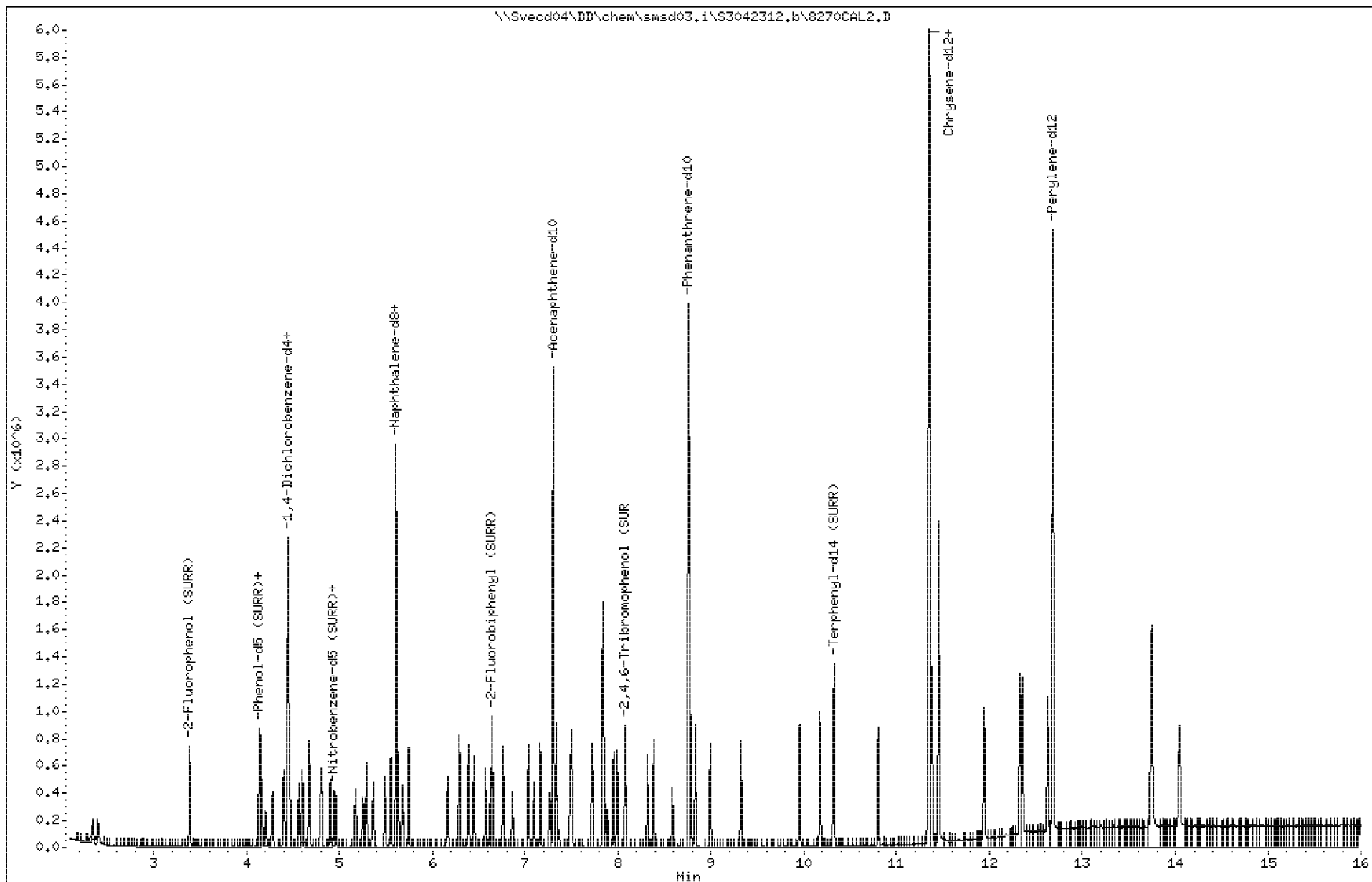
Sample Info: 45926

Operator: PEL

Purge Volume: 1000.0

Column diameter: 0.25

Column phase: HPMS-5



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

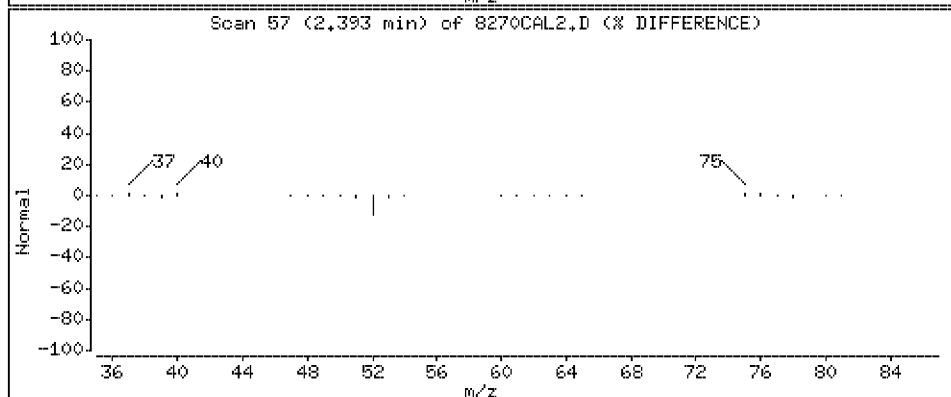
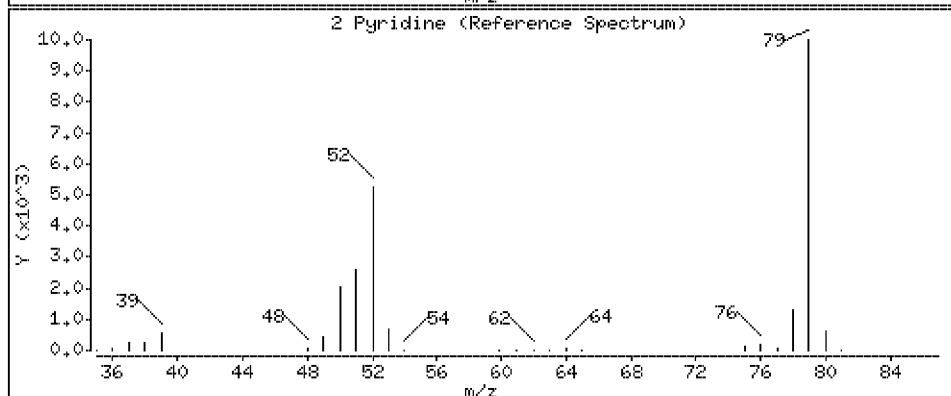
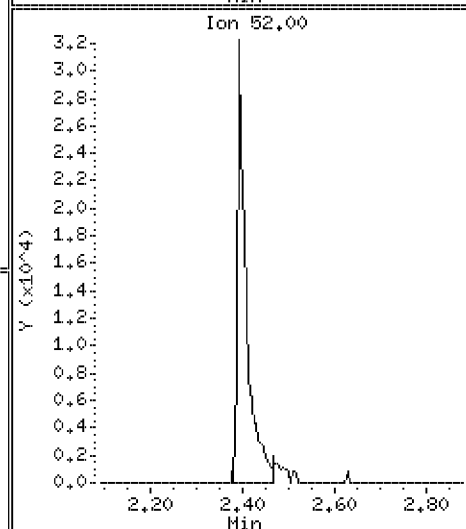
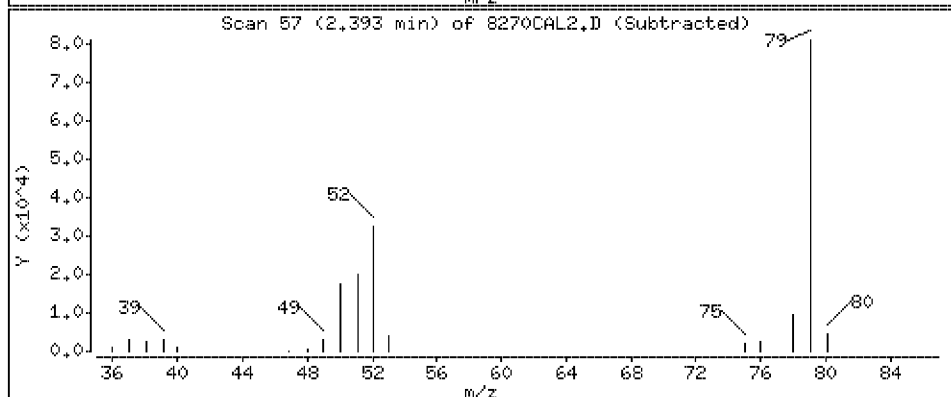
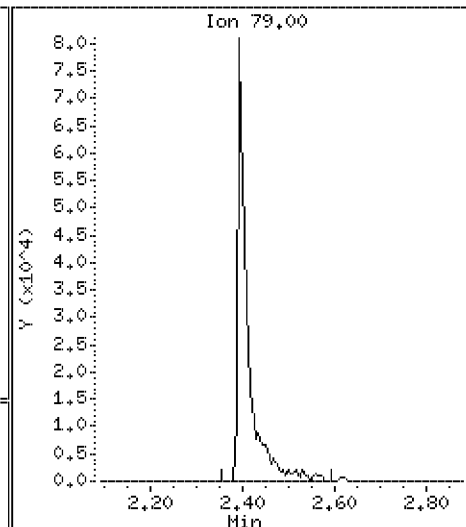
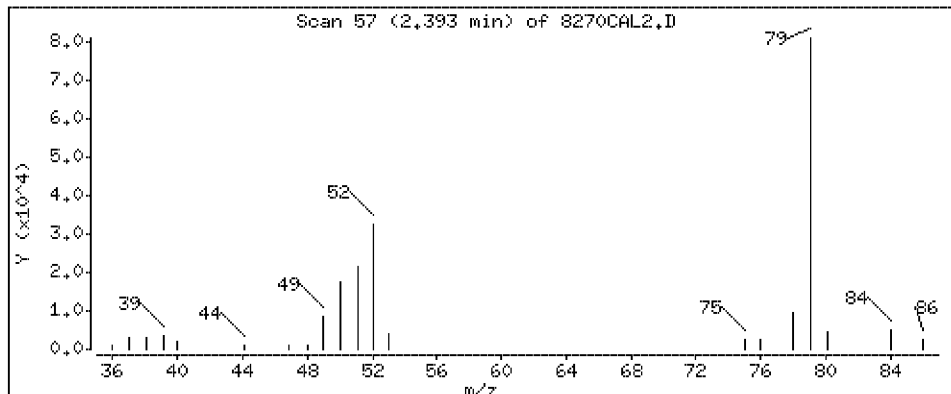
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

2 Pyridine

Concentration: 9.6 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

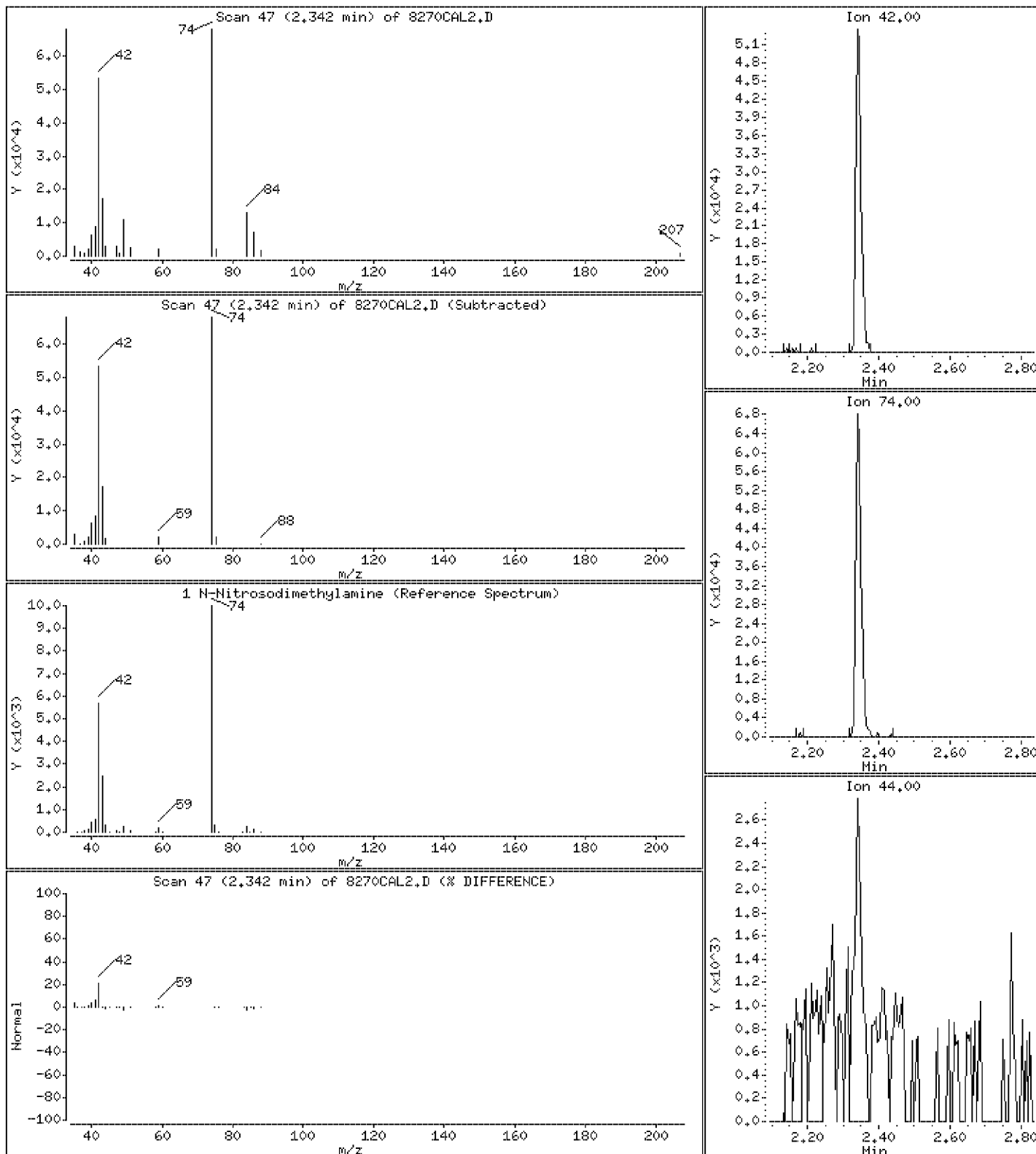
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

1 N-Nitrosodimethylamine

Concentration: 10.3 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

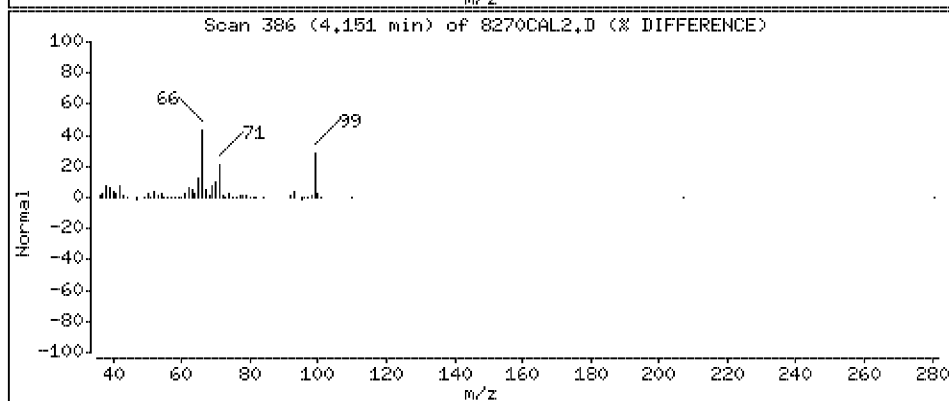
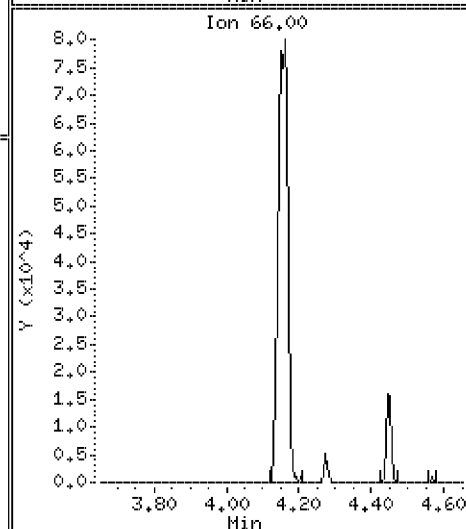
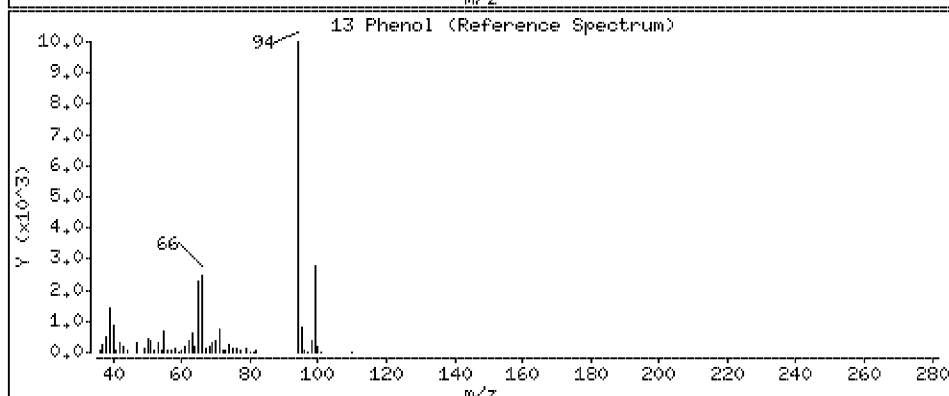
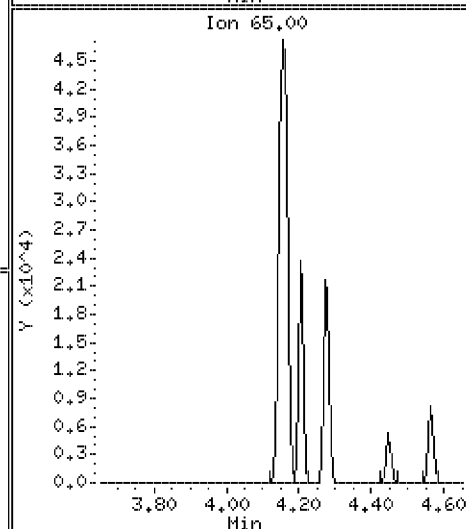
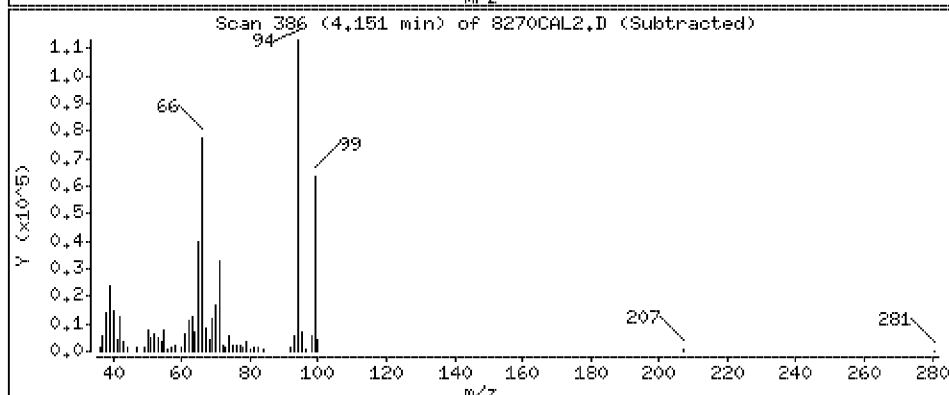
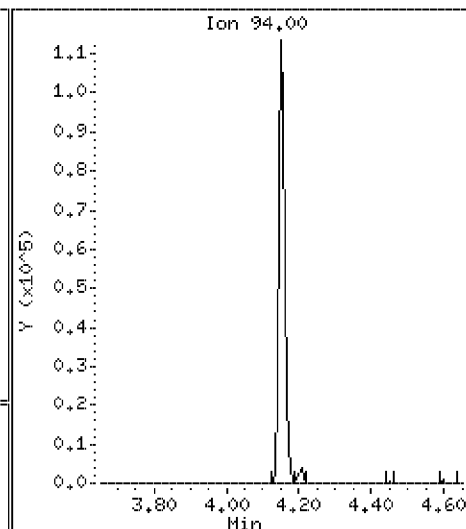
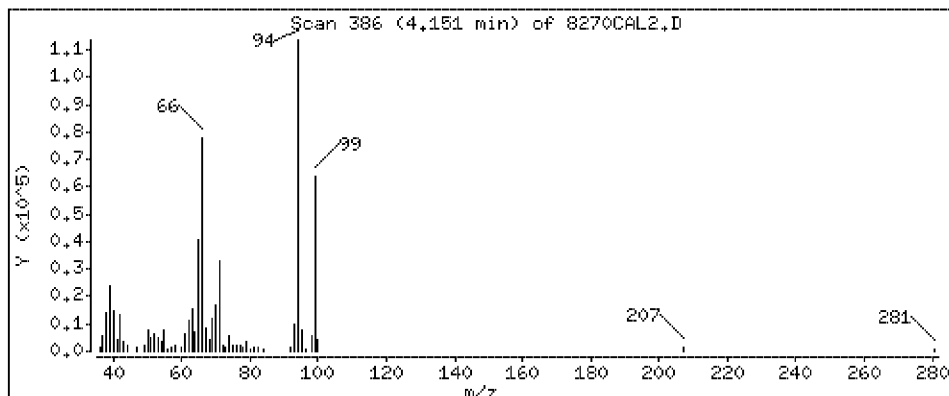
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

13 Phenol

Concentration: 9.0 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

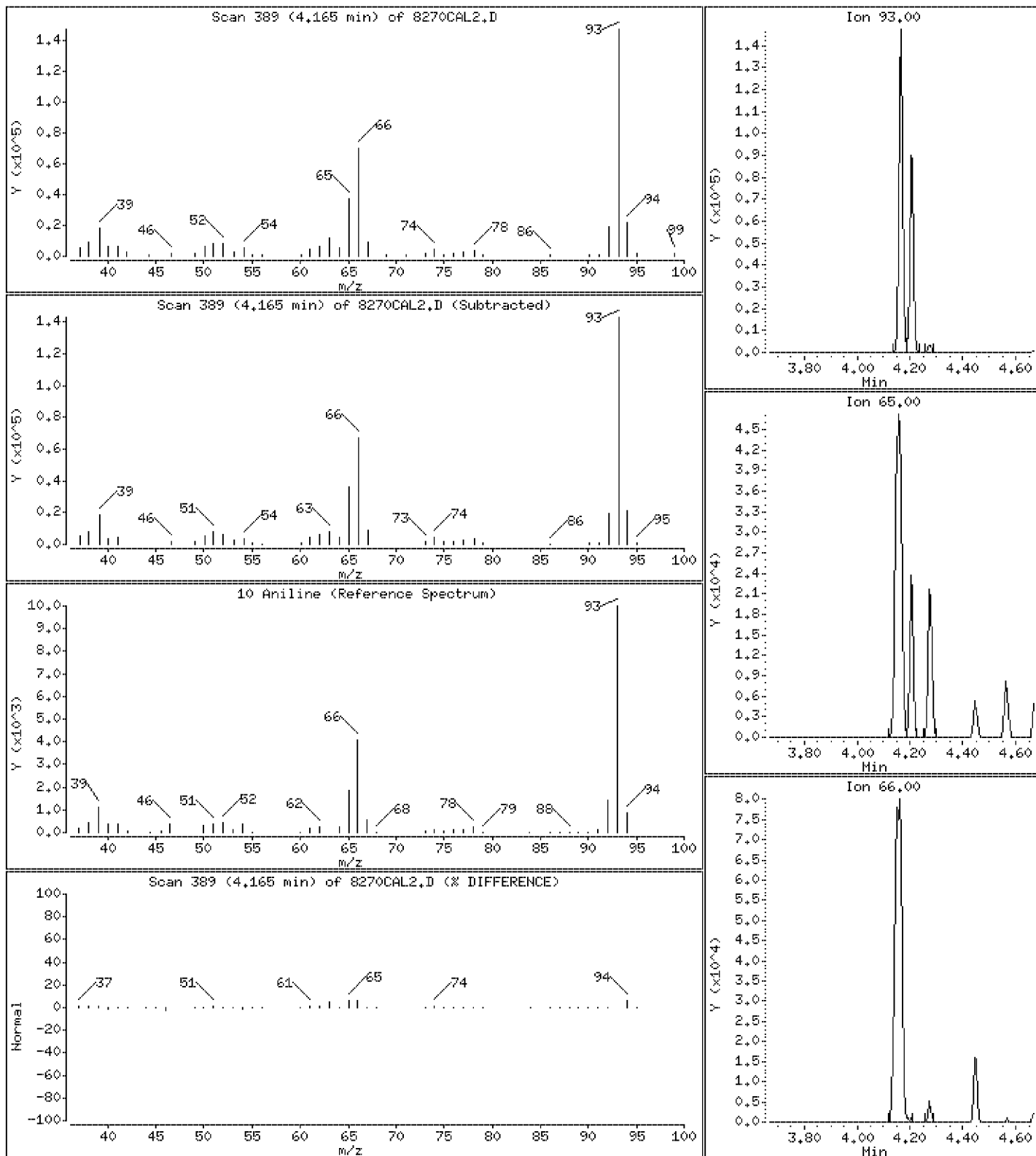
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

10 Aniline

Concentration: 9.5 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

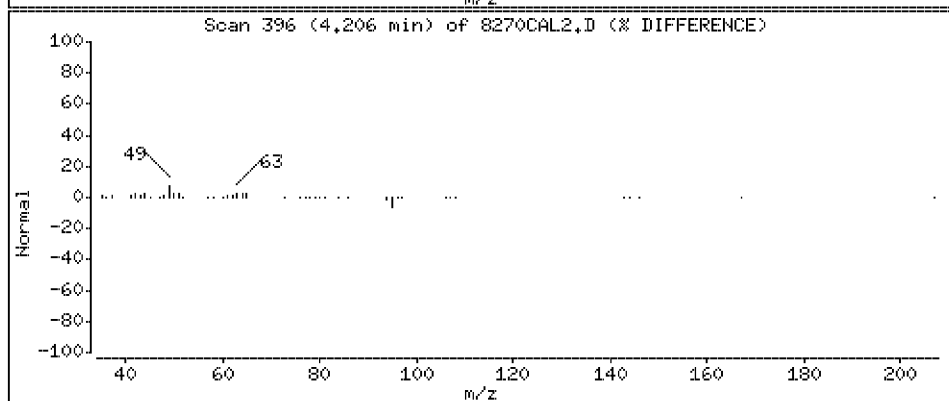
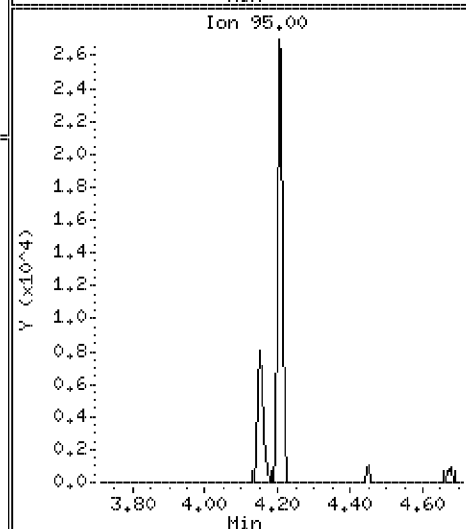
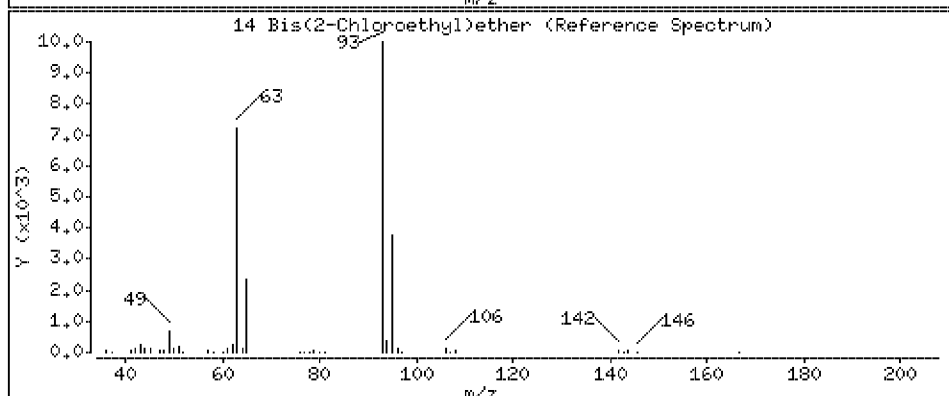
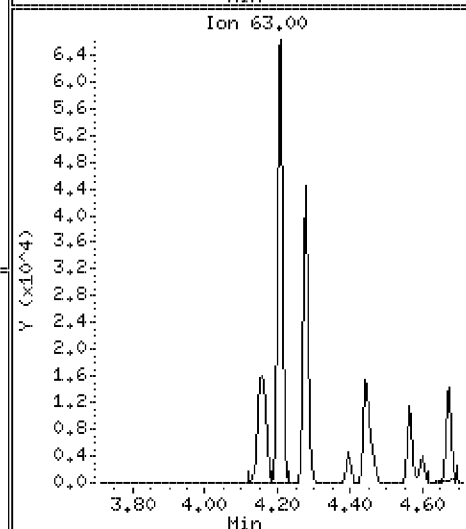
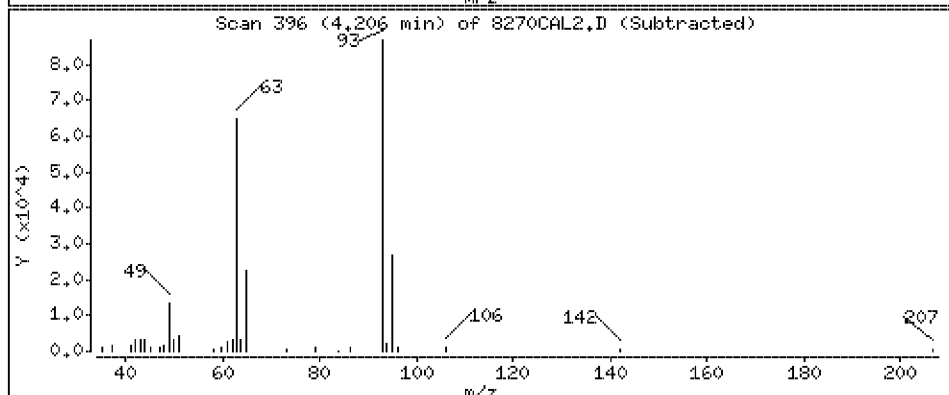
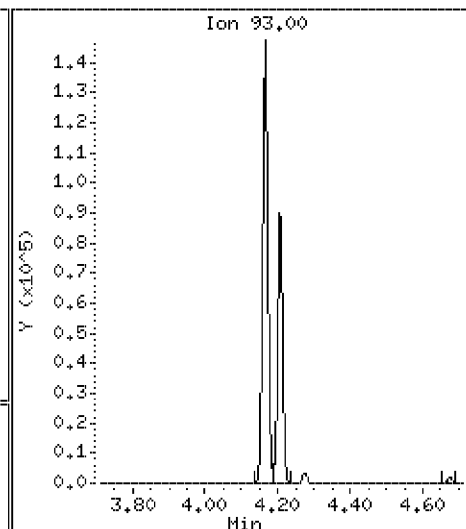
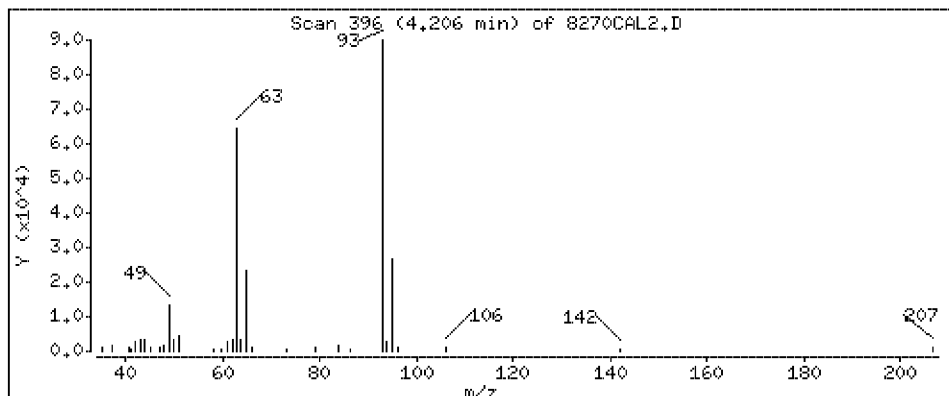
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

14 Bis(2-Chloroethyl)ether

Concentration: 9.8 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

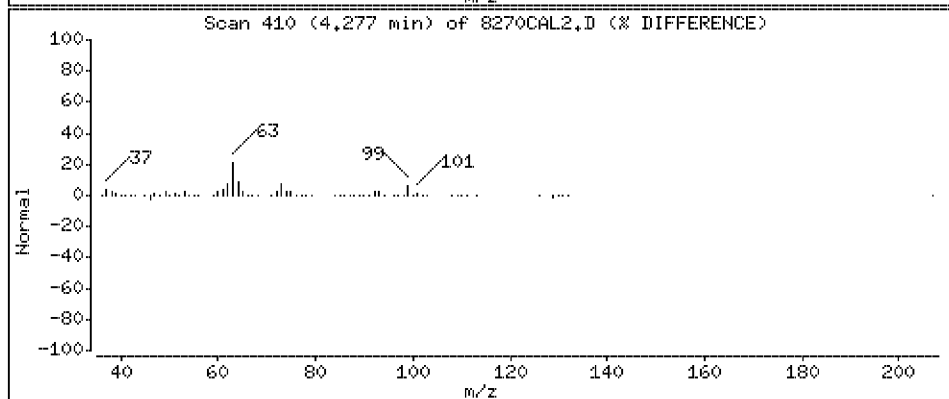
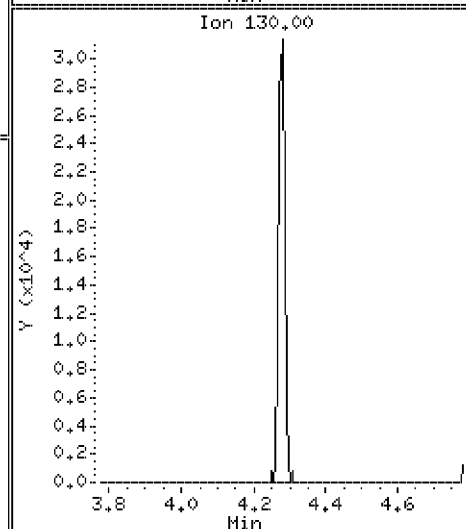
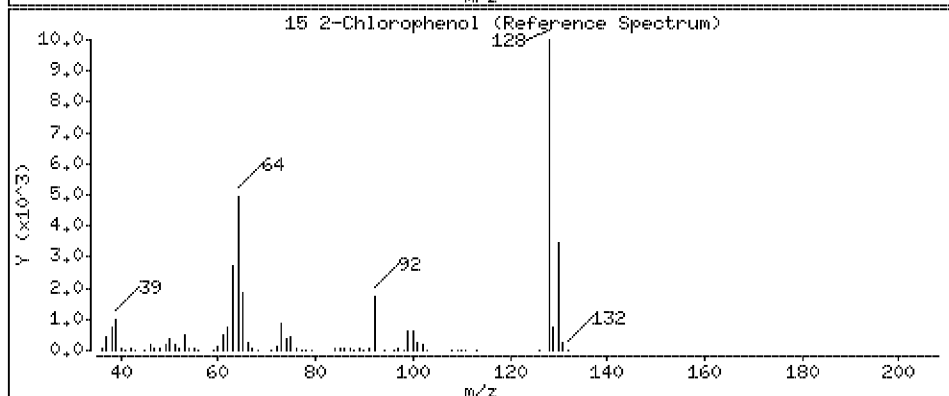
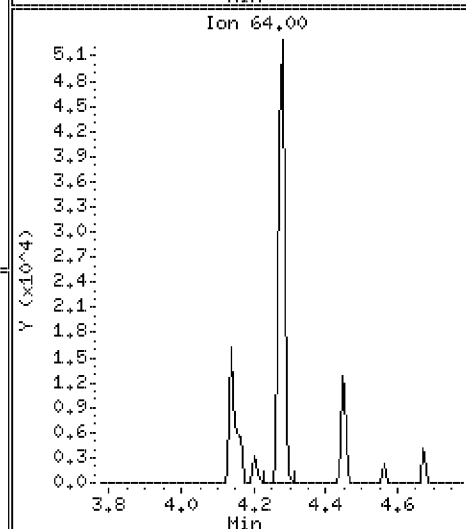
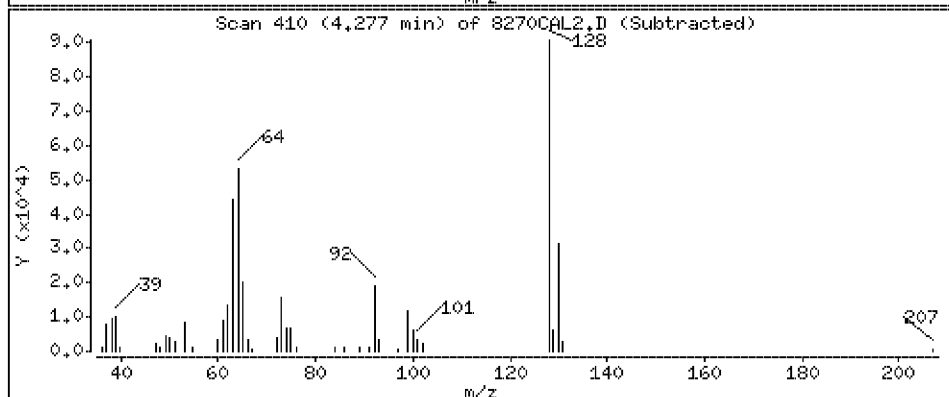
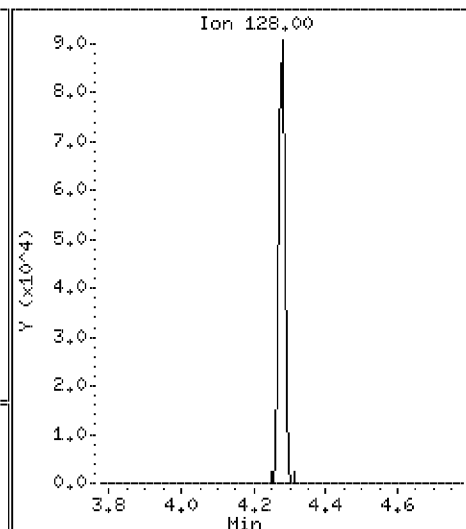
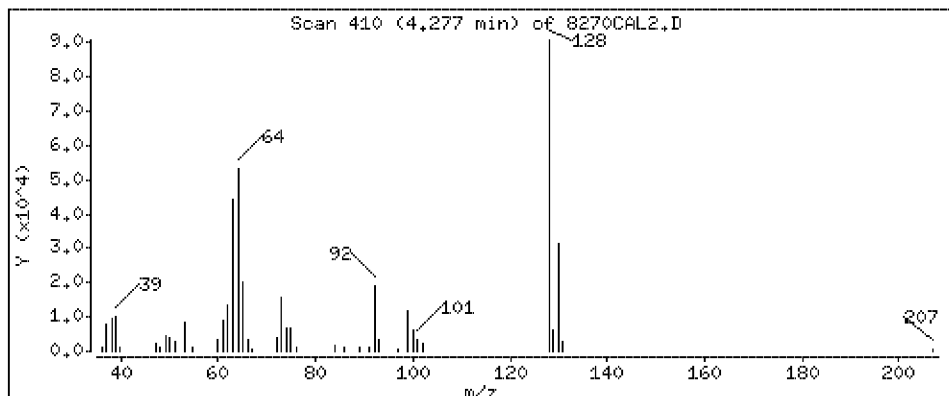
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

15 2-Chlorophenol

Concentration: 9.1 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

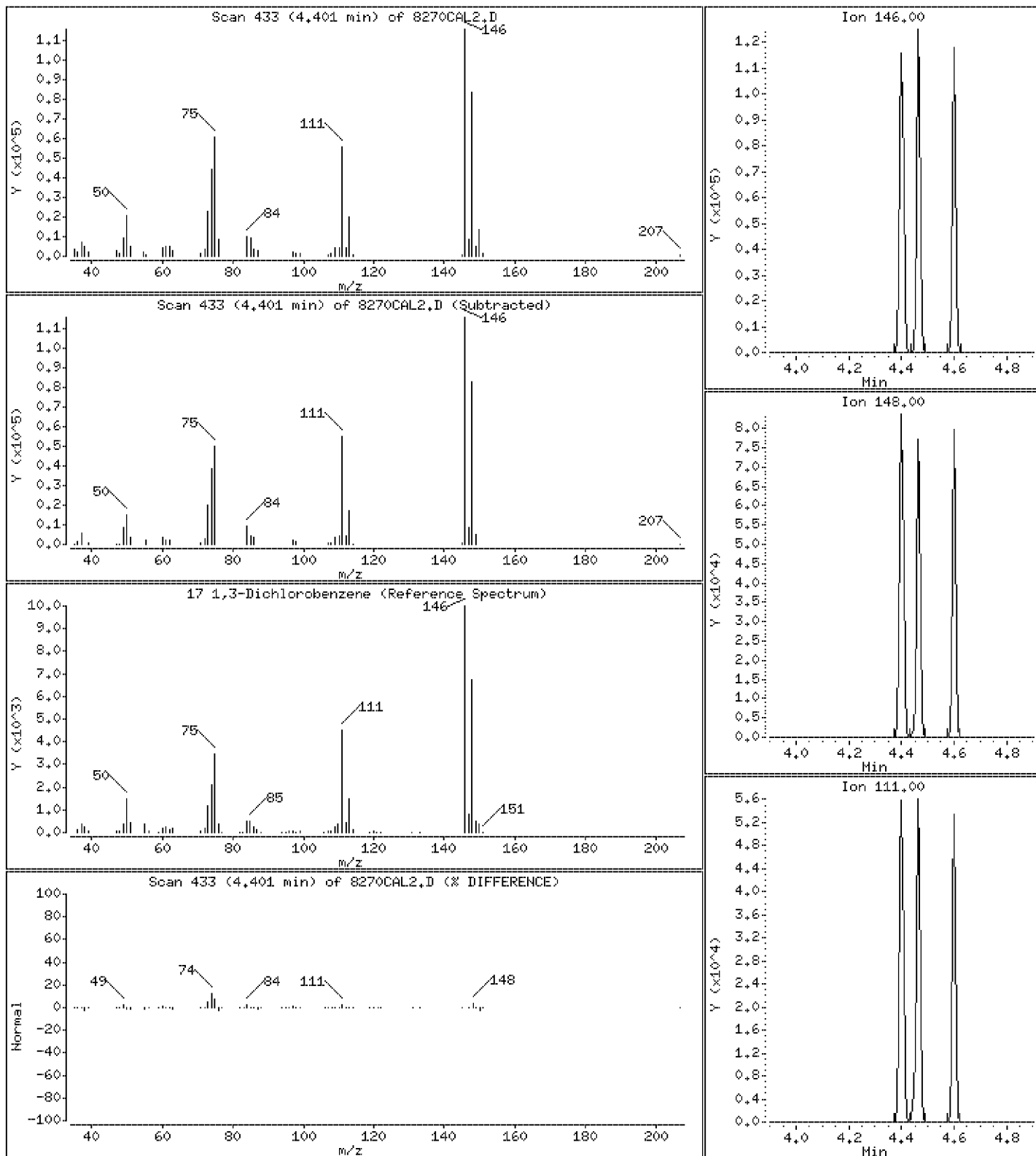
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

17 1,3-Dichlorobenzene

Concentration: 9.1 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

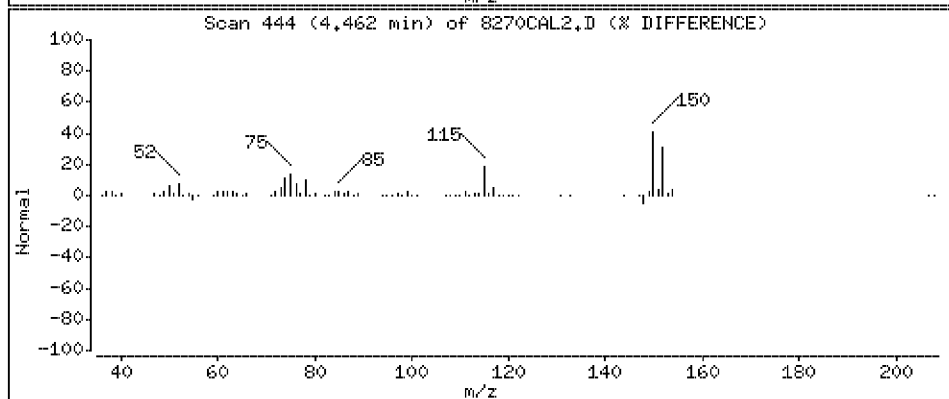
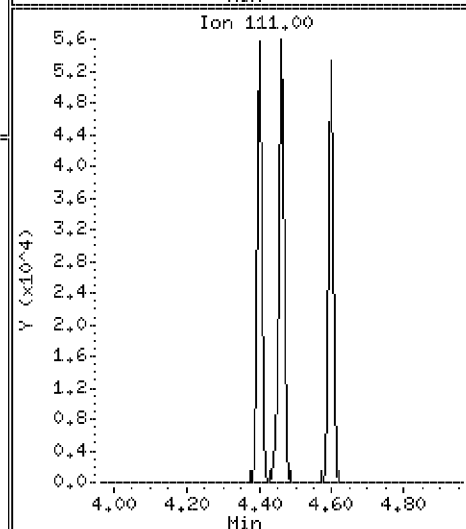
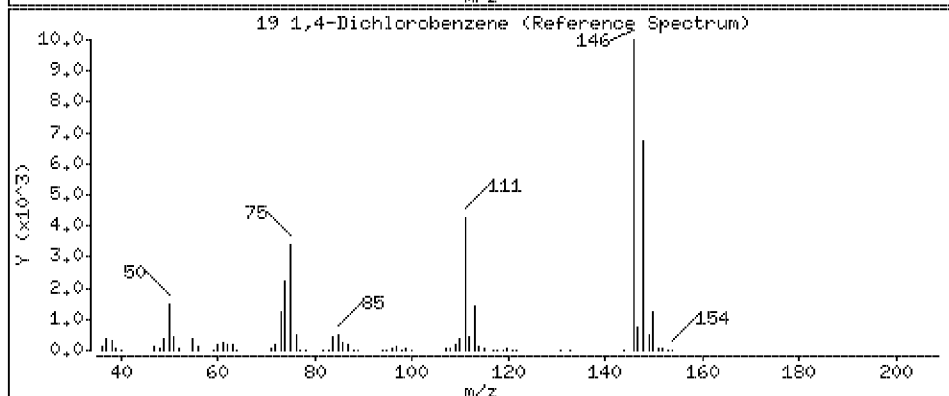
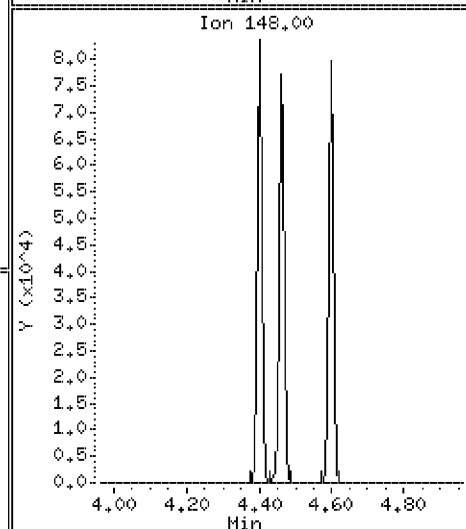
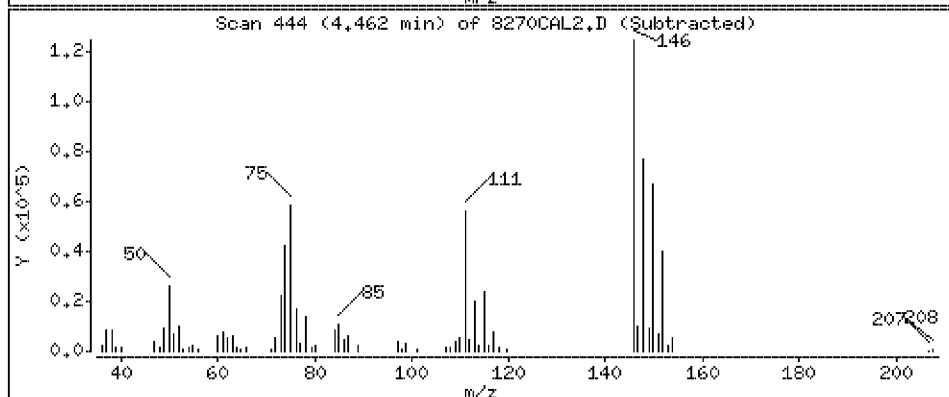
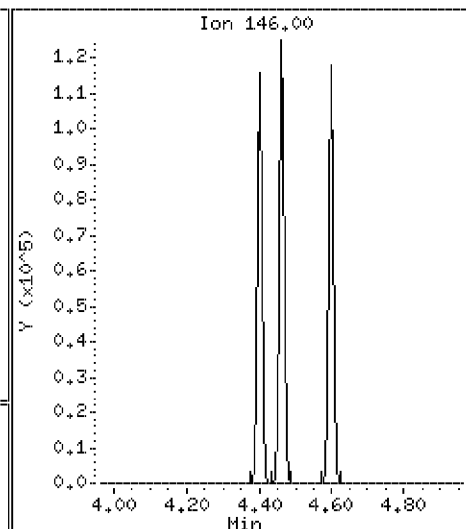
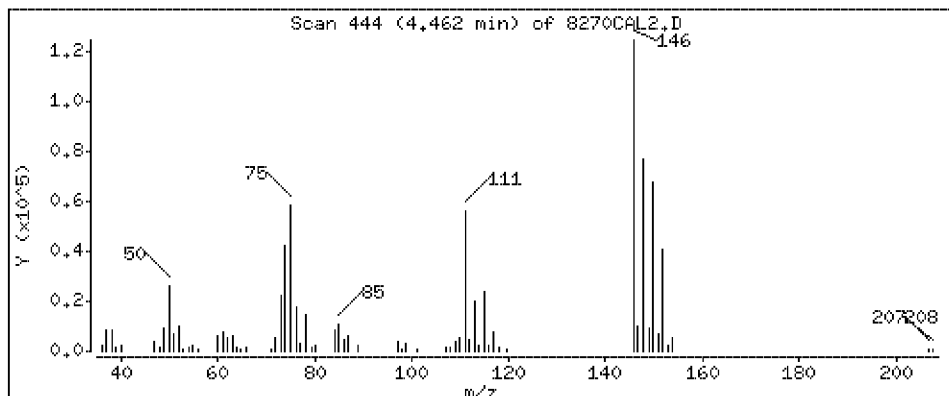
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

19 1,4-Dichlorobenzene

Concentration: 9.5 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

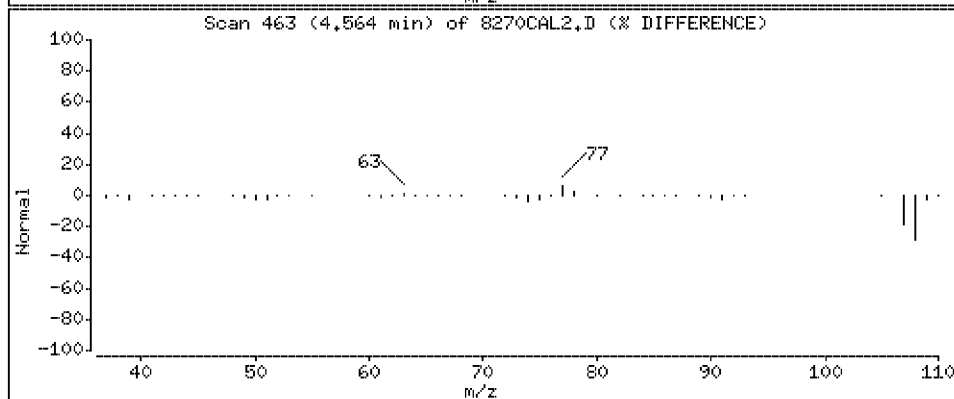
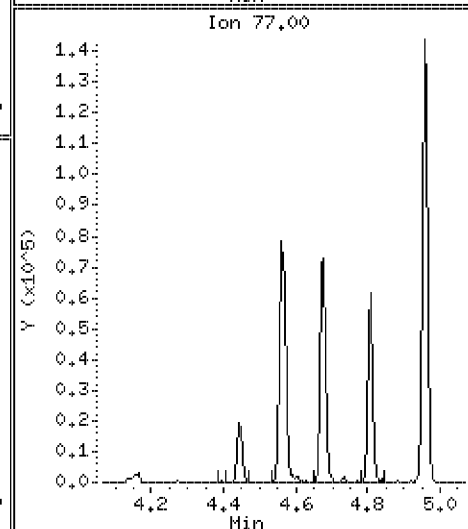
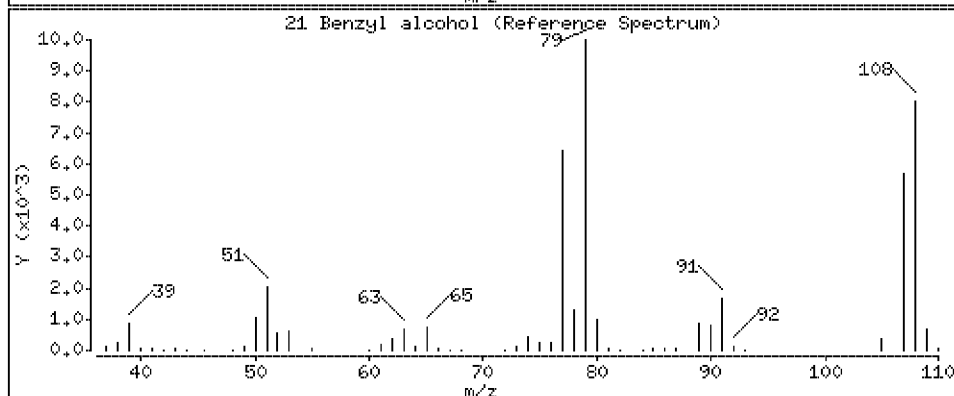
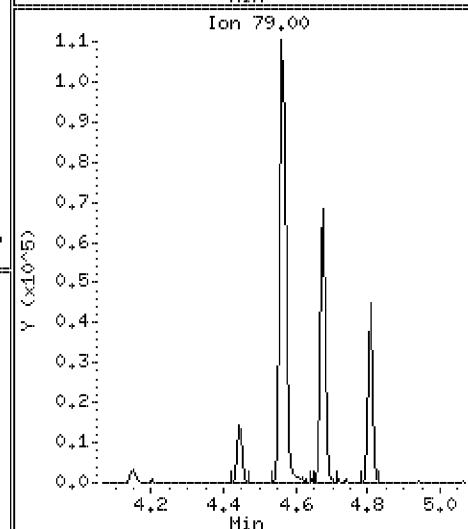
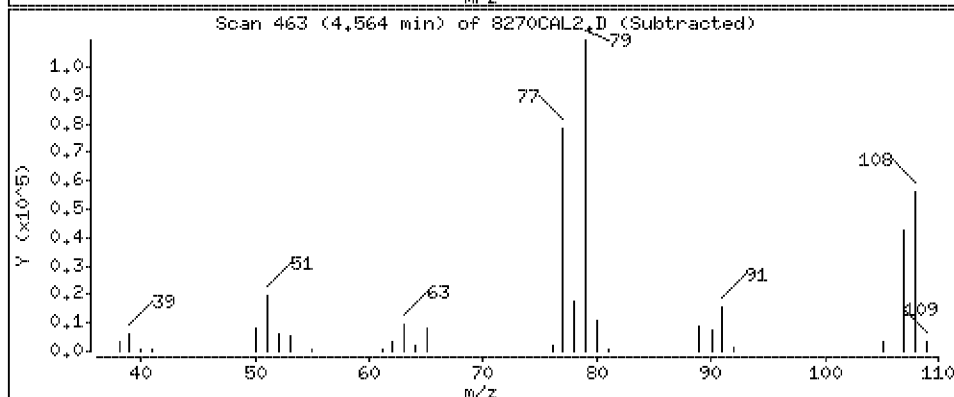
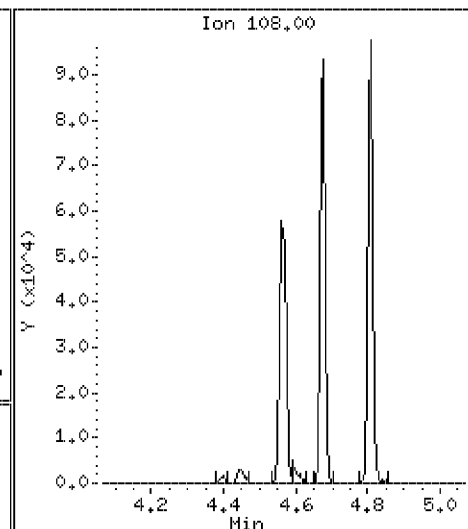
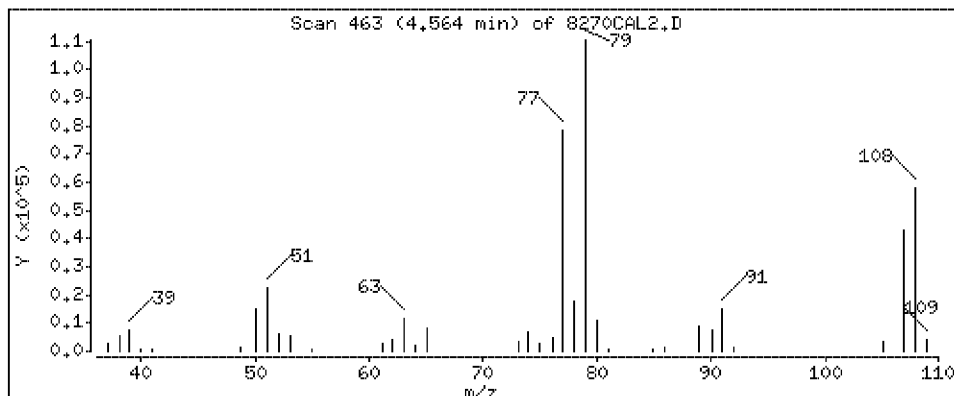
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

21 Benzyl alcohol

Concentration: 9.0 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

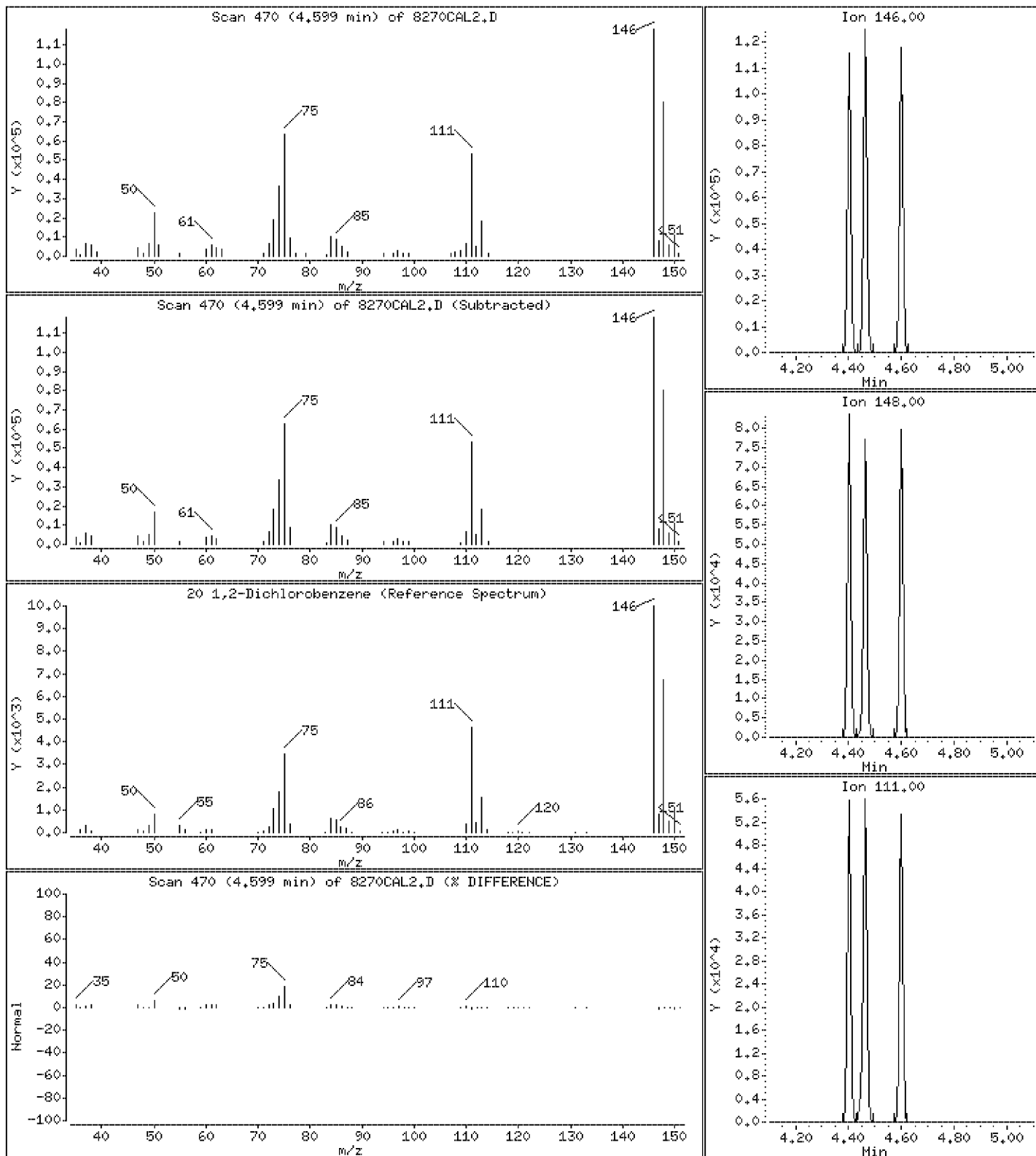
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

20 1,2-Dichlorobenzene

Concentration: 9.7 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

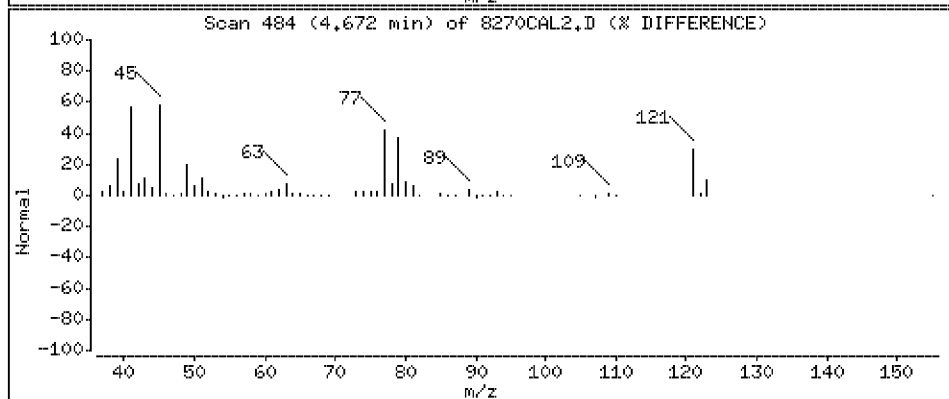
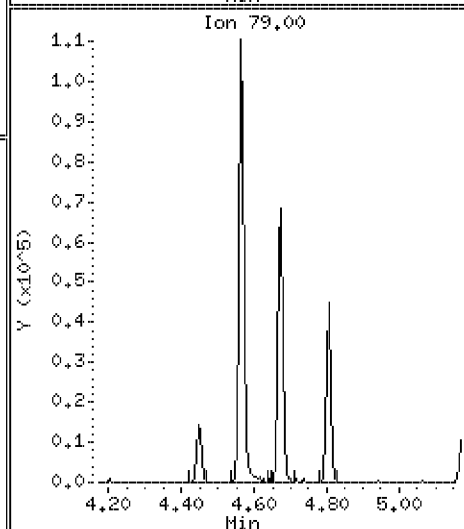
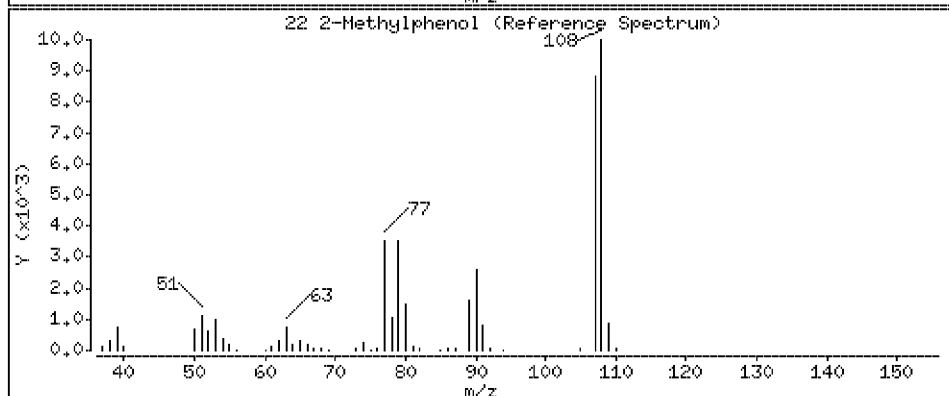
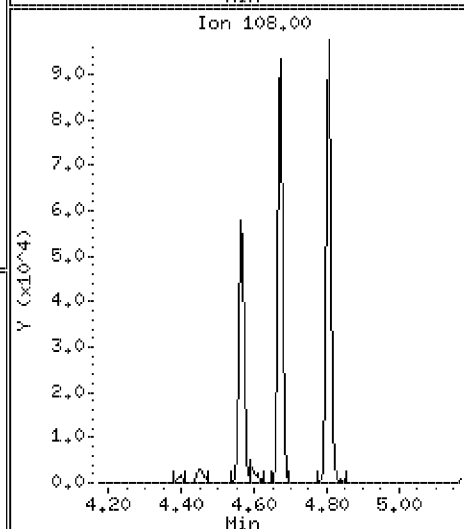
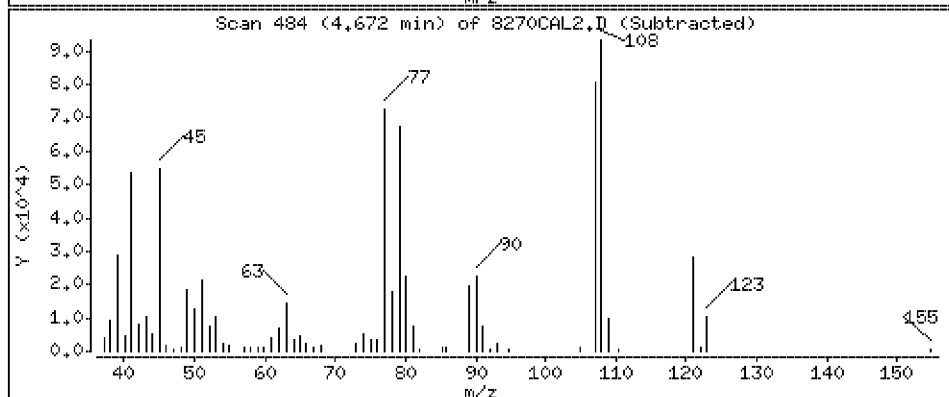
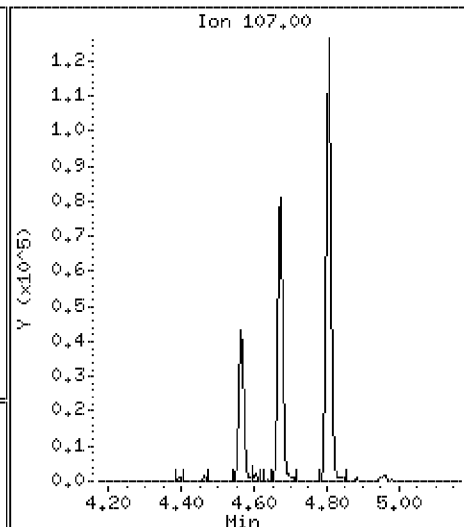
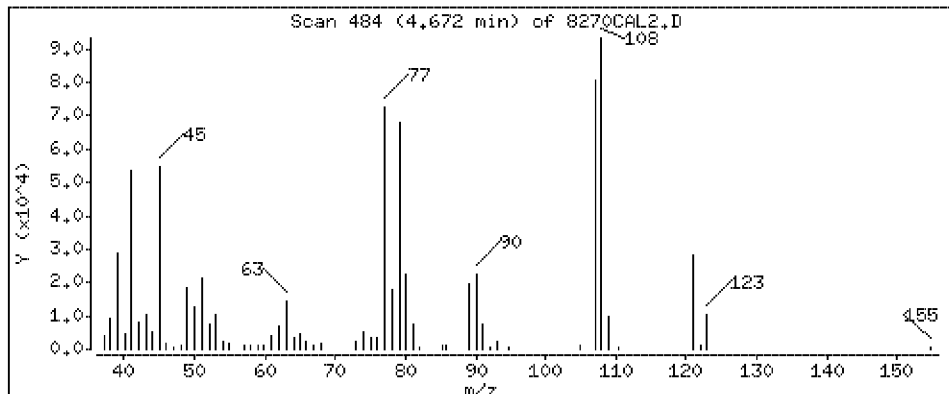
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

22 2-Methylphenol

Concentration: 9.1 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

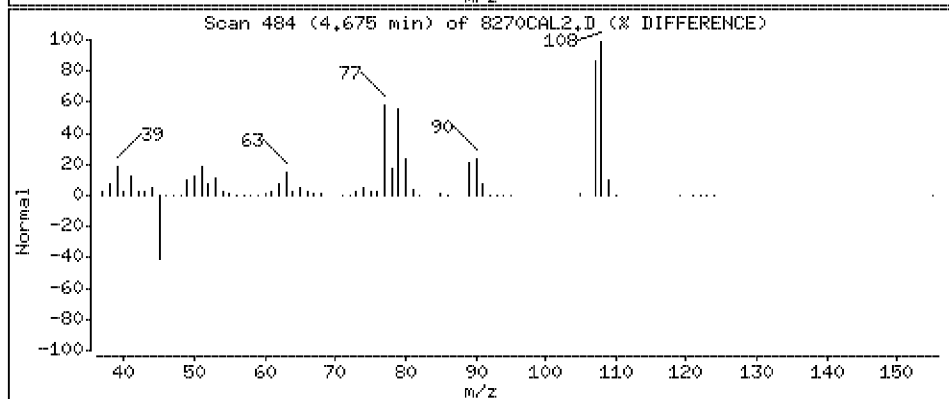
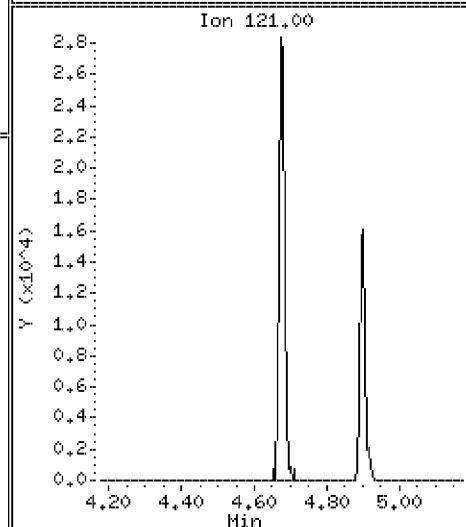
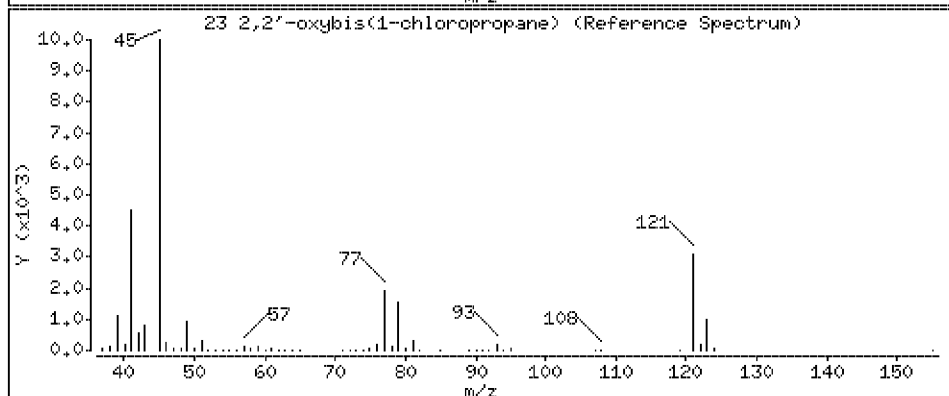
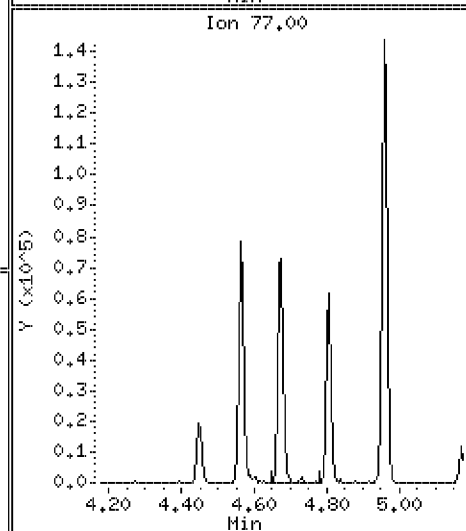
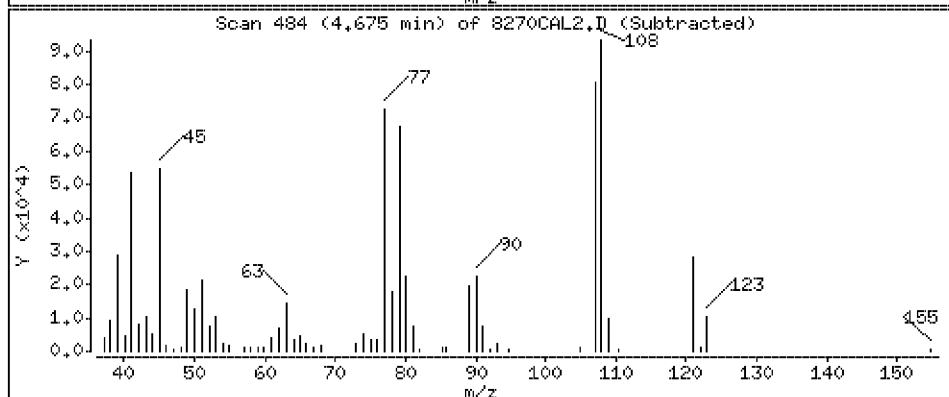
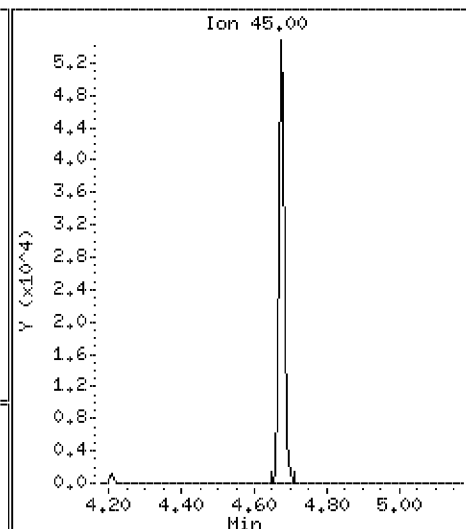
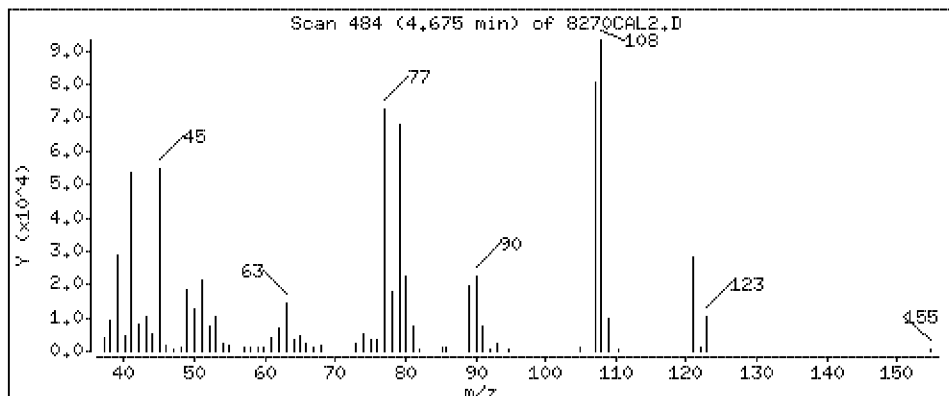
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

23 2,2'-oxybis(1-chloropropane)

Concentration: 9.2 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

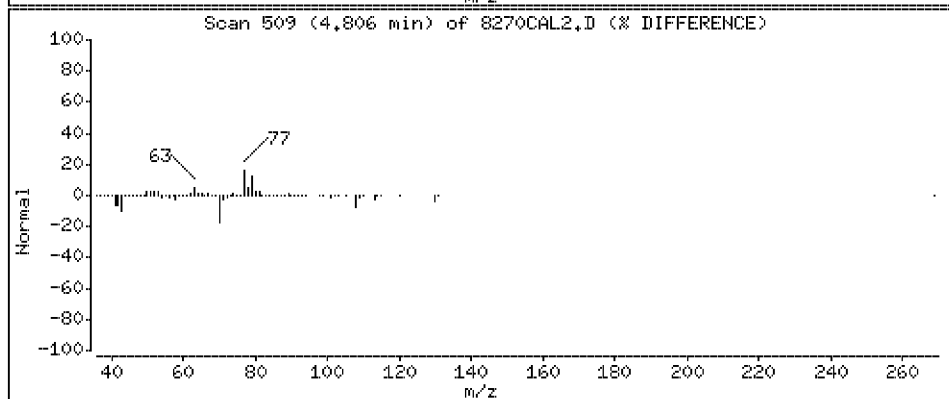
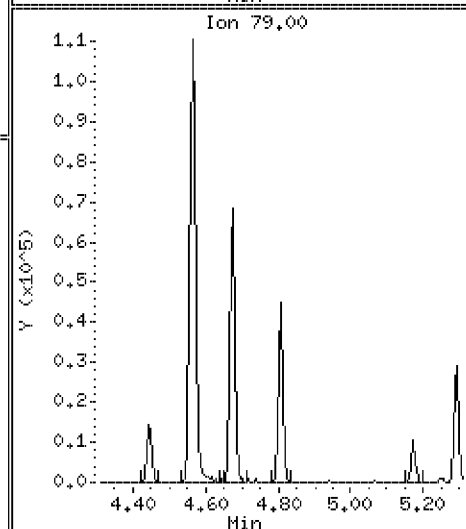
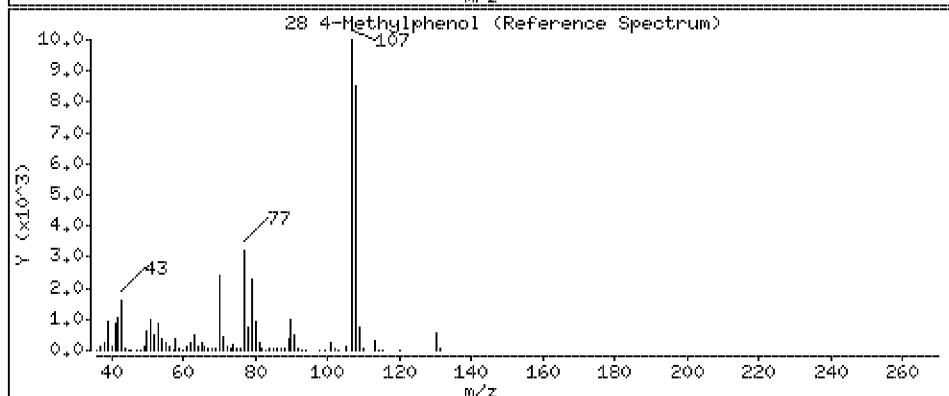
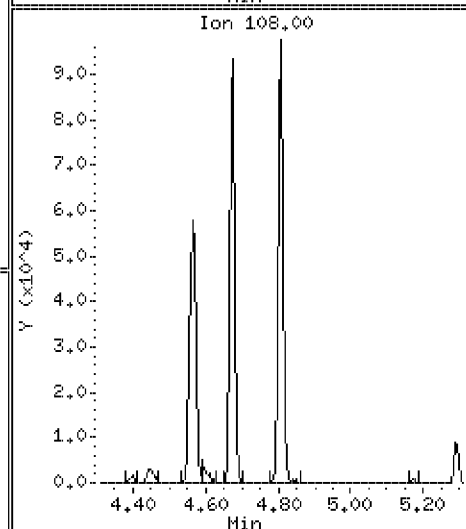
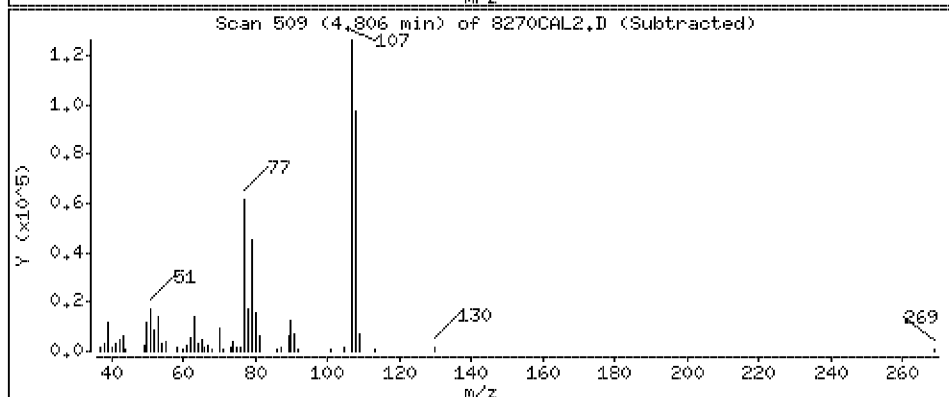
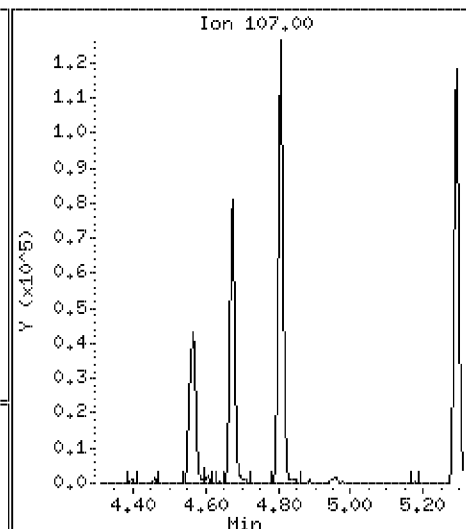
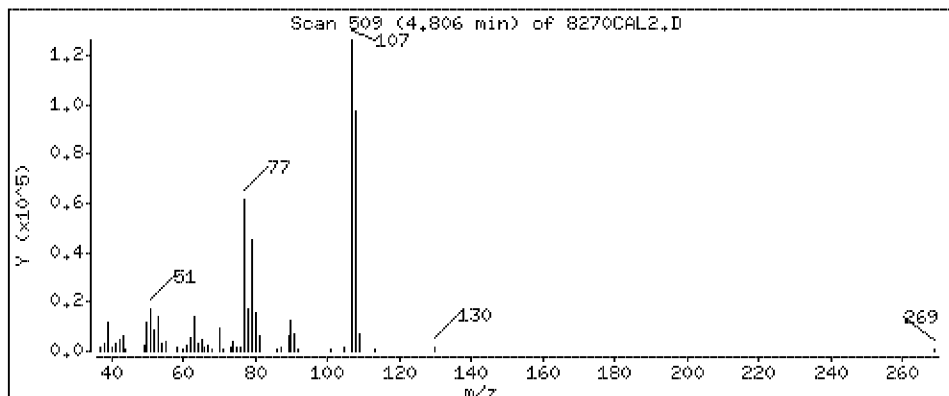
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

28 4-Methylphenol

Concentration: 9.3 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

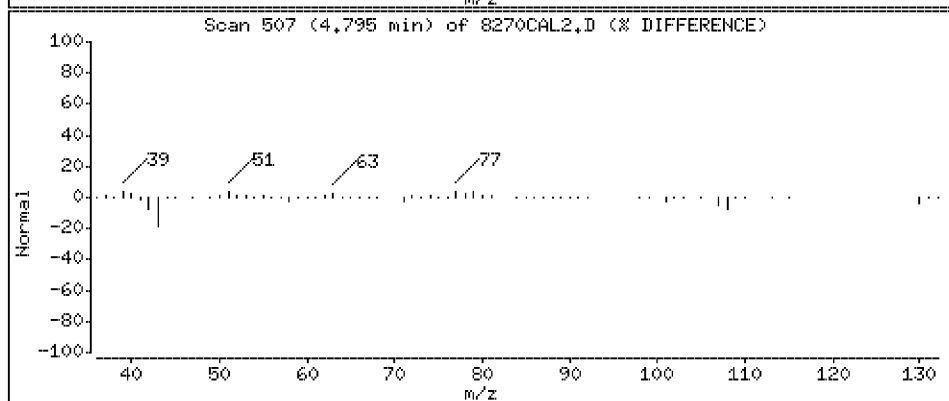
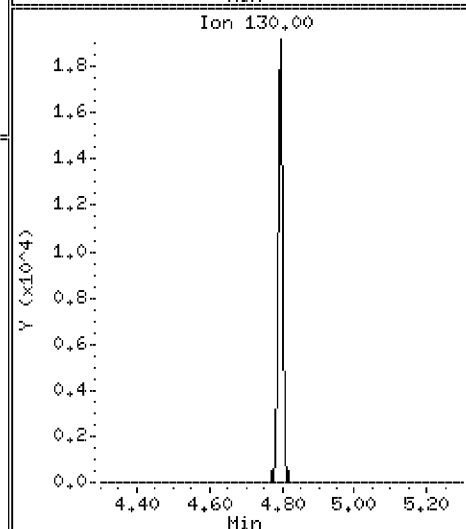
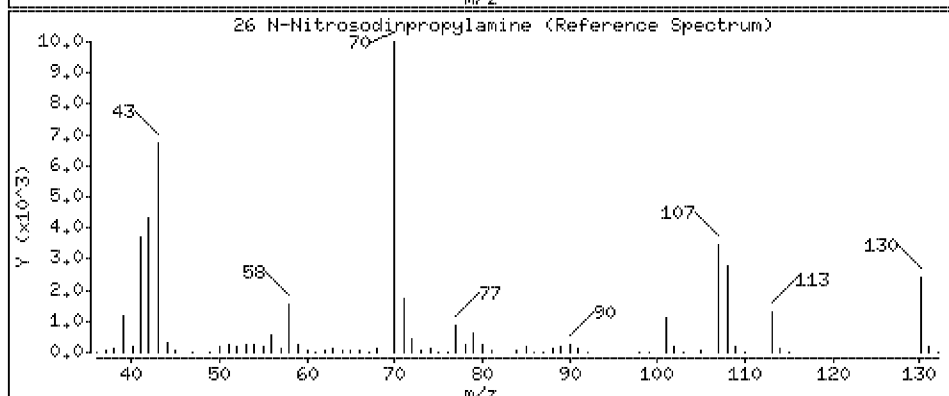
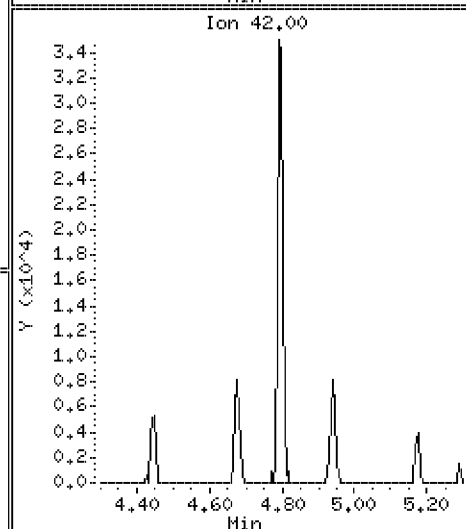
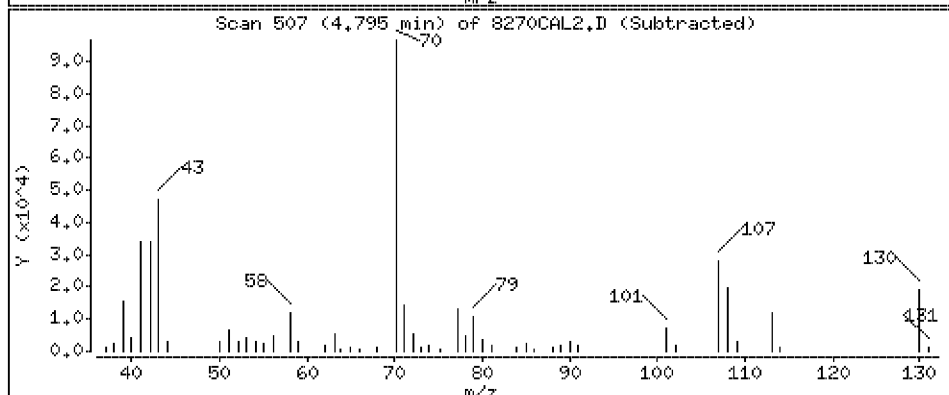
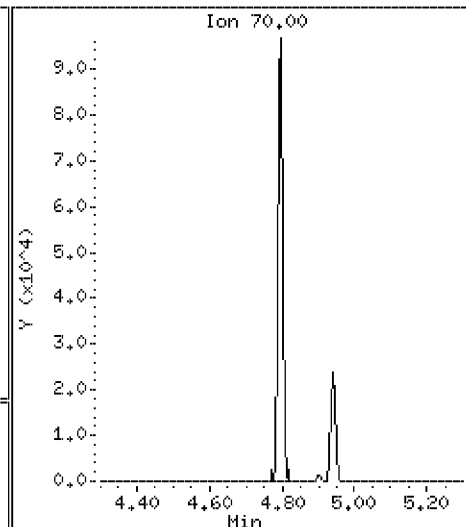
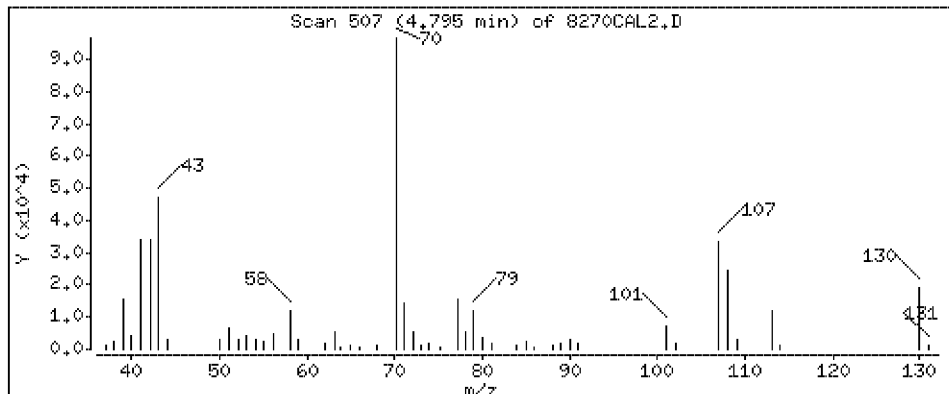
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

26 N-Nitrosodipropylamine

Concentration: 9.2 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

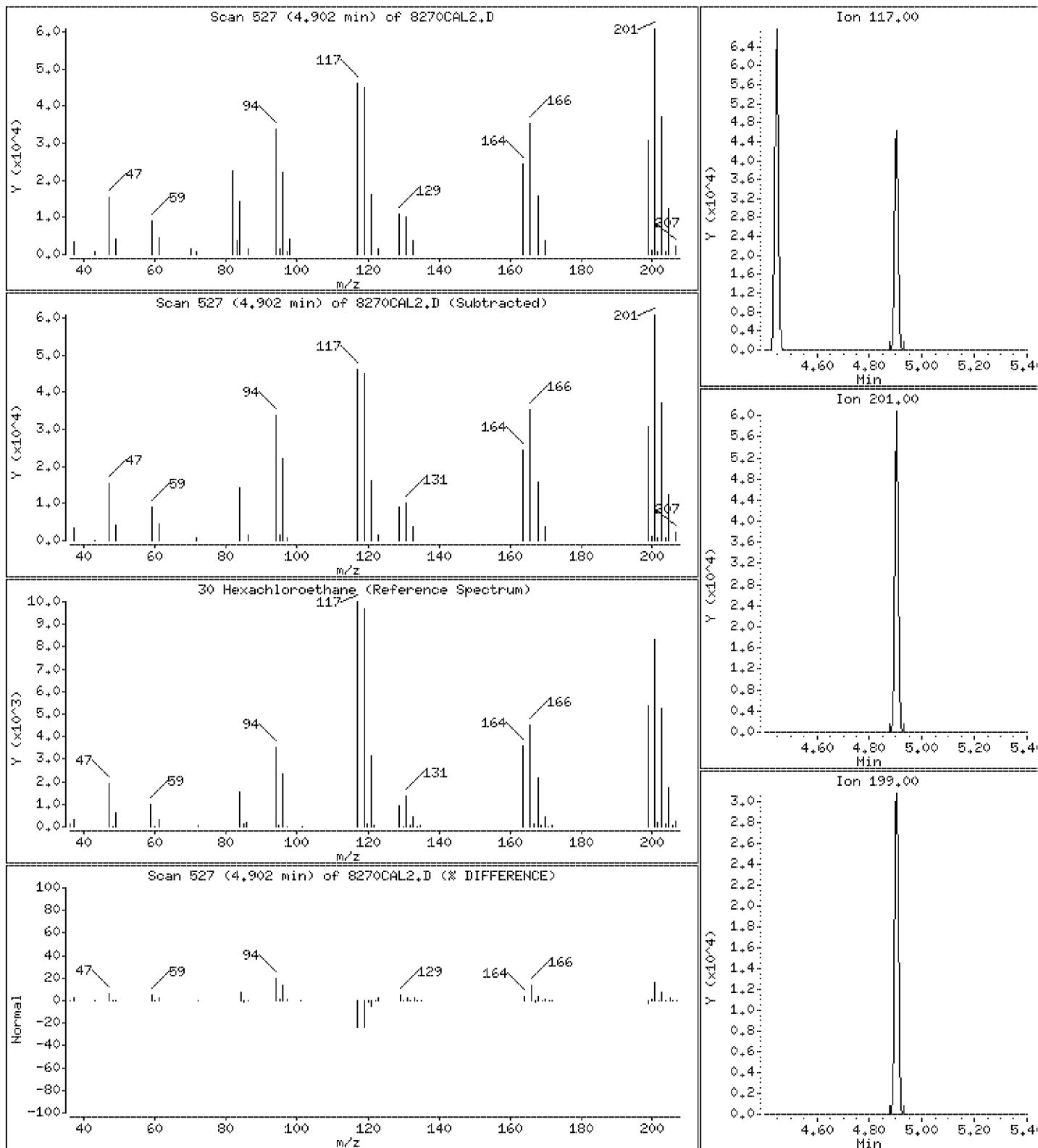
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

30 Hexachloroethane

Concentration: 9.4 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

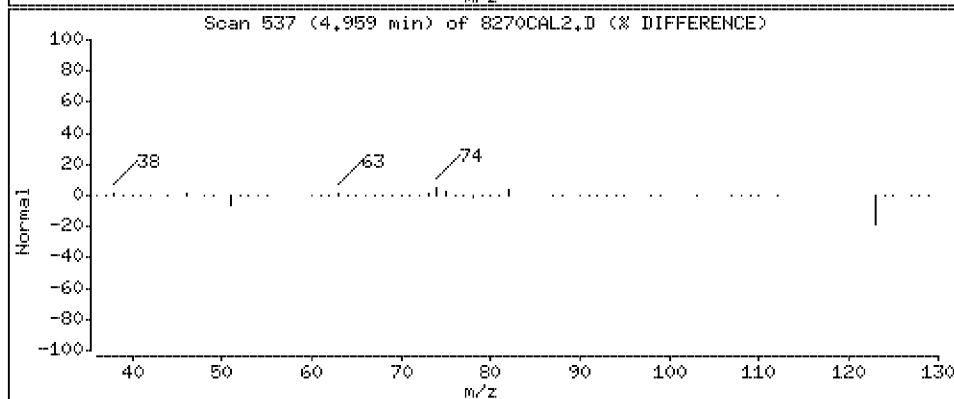
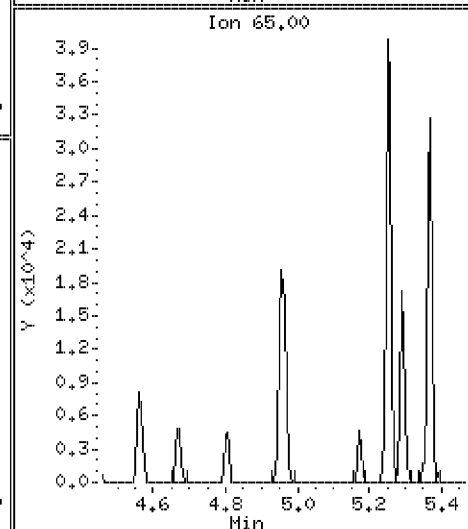
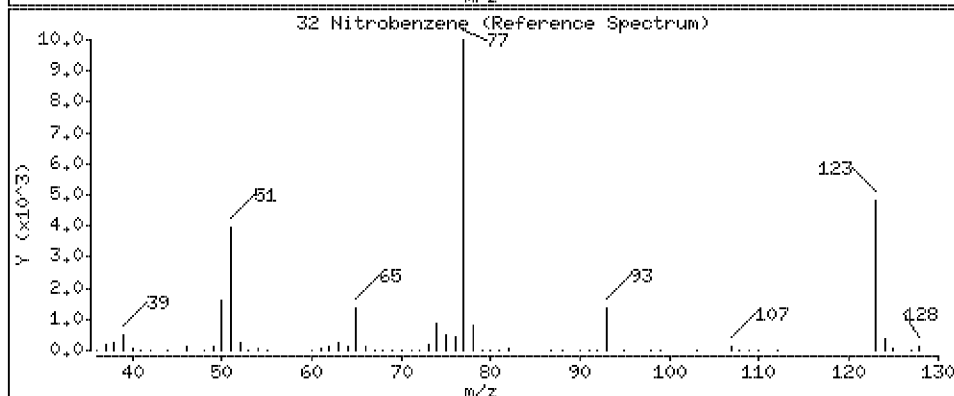
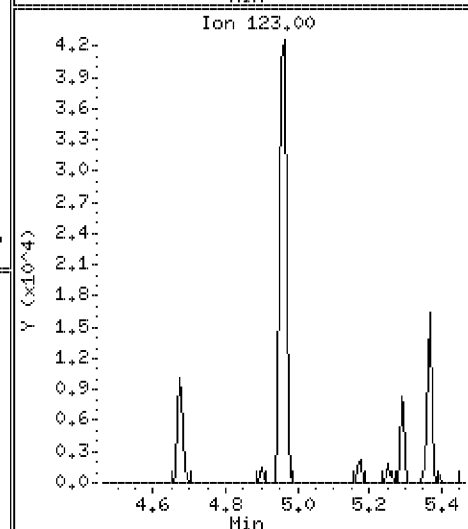
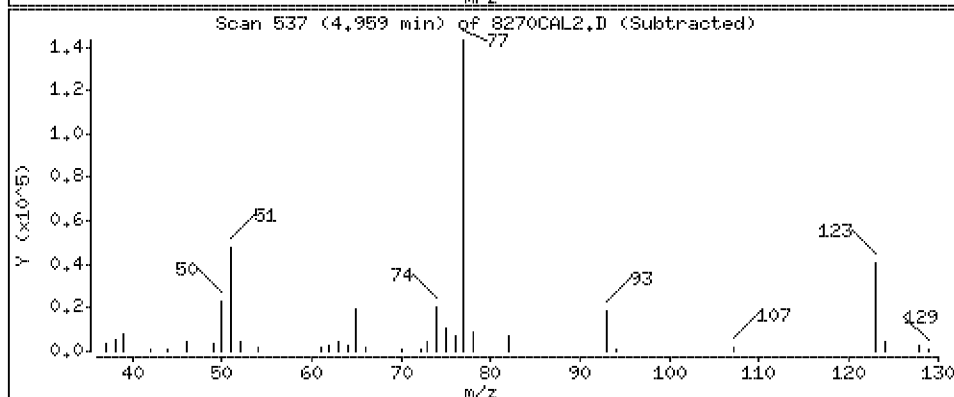
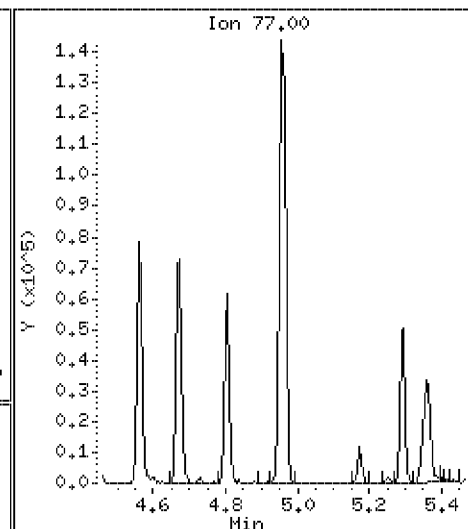
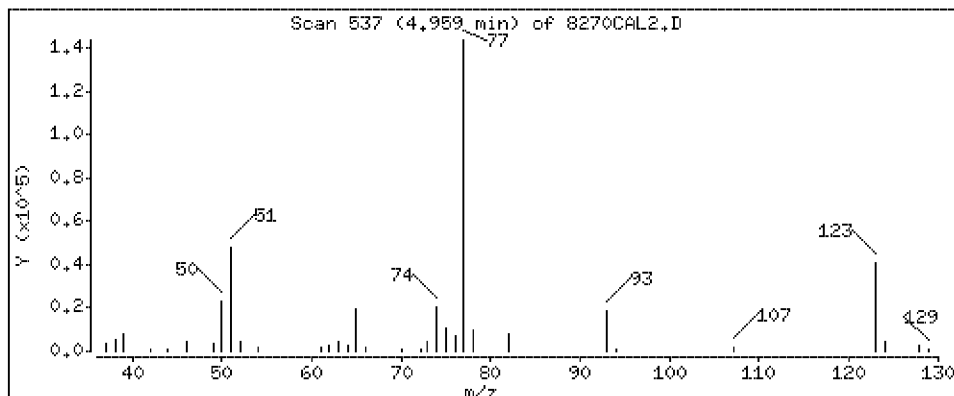
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

32 Nitrobenzene

Concentration: 9.8 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

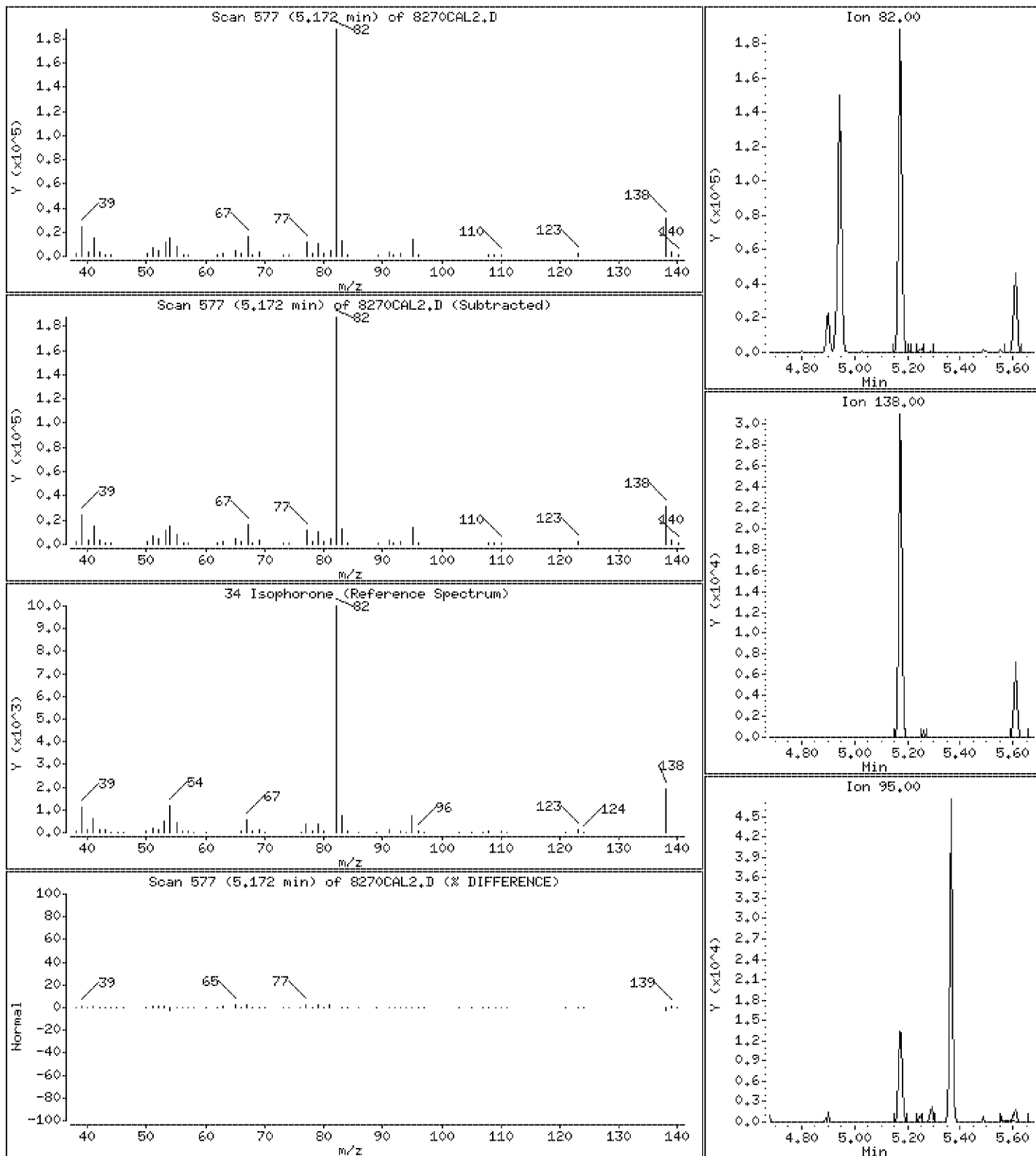
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

34 Isophorone

Concentration: 9.9 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

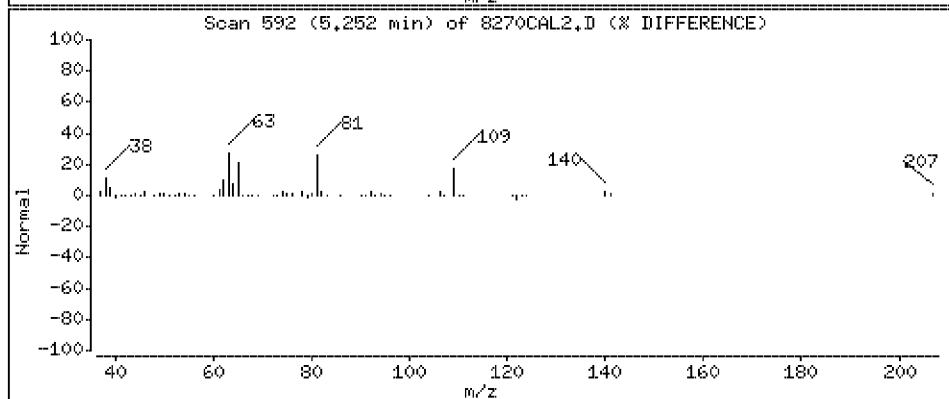
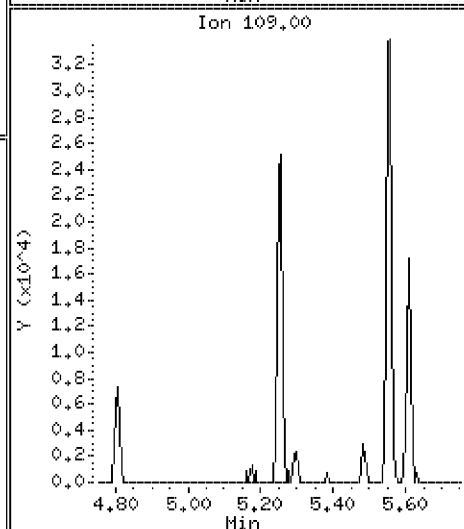
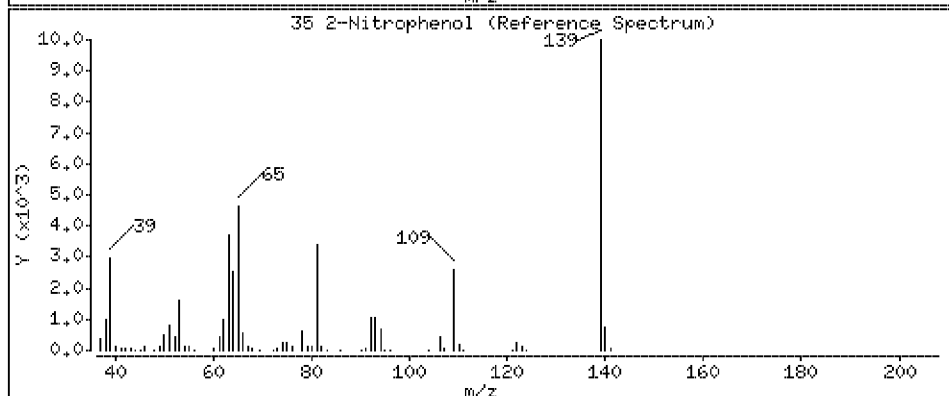
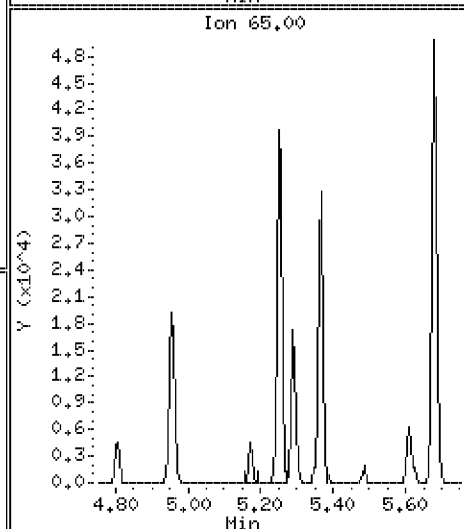
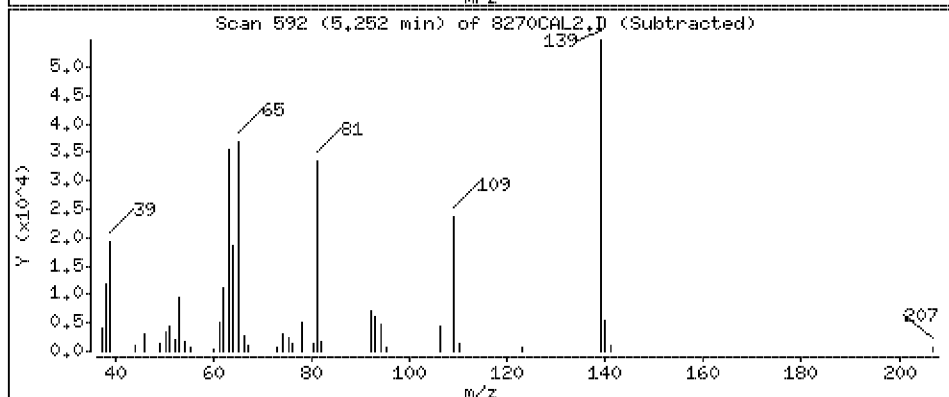
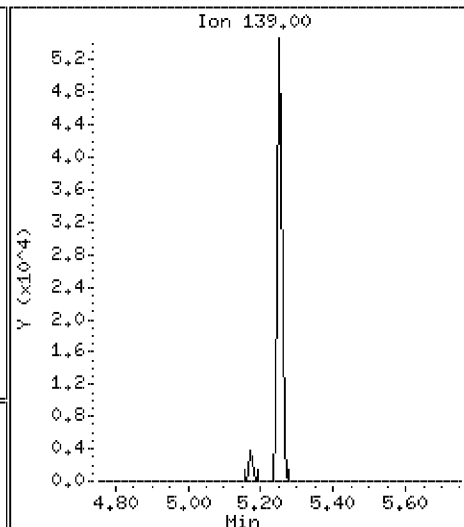
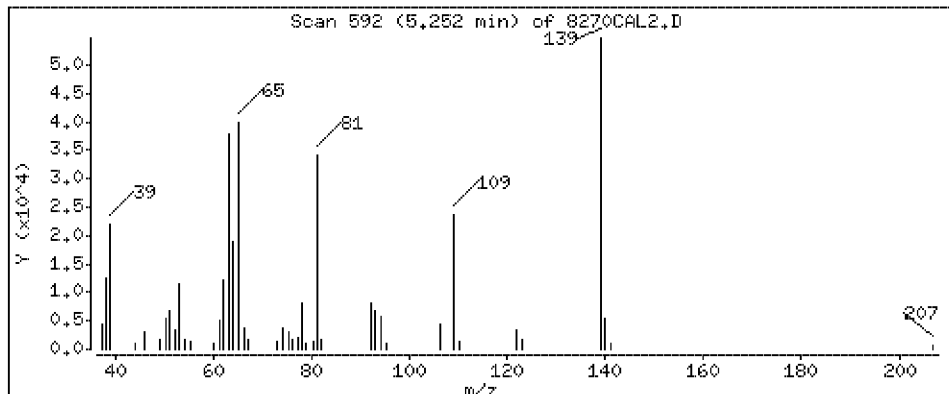
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

35 2-Nitrophenol

Concentration: 9.5 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

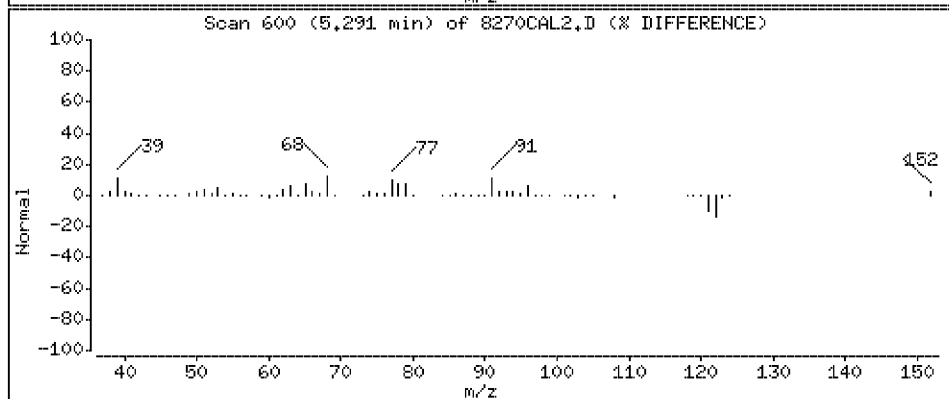
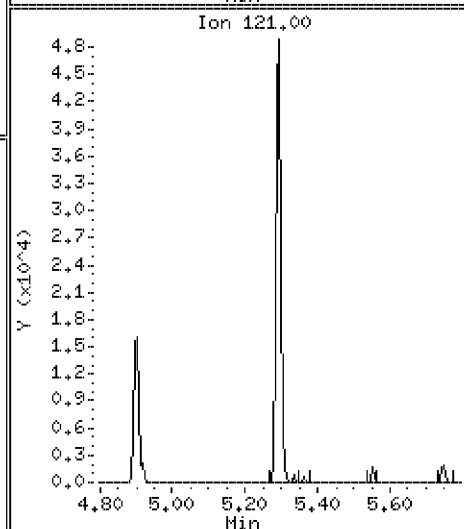
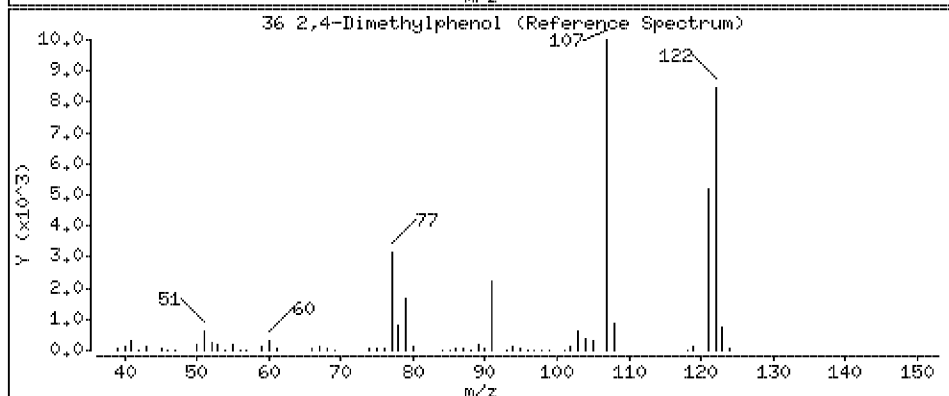
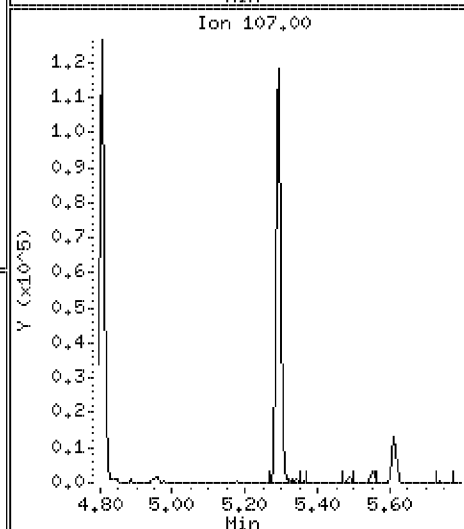
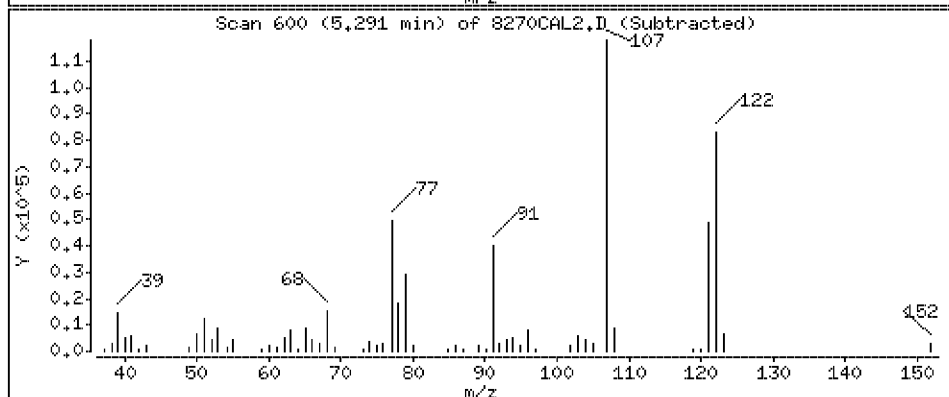
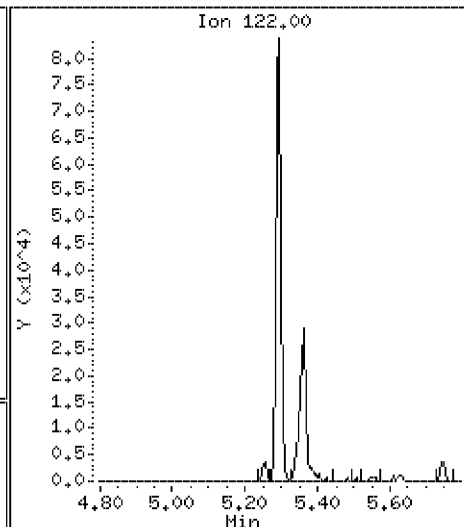
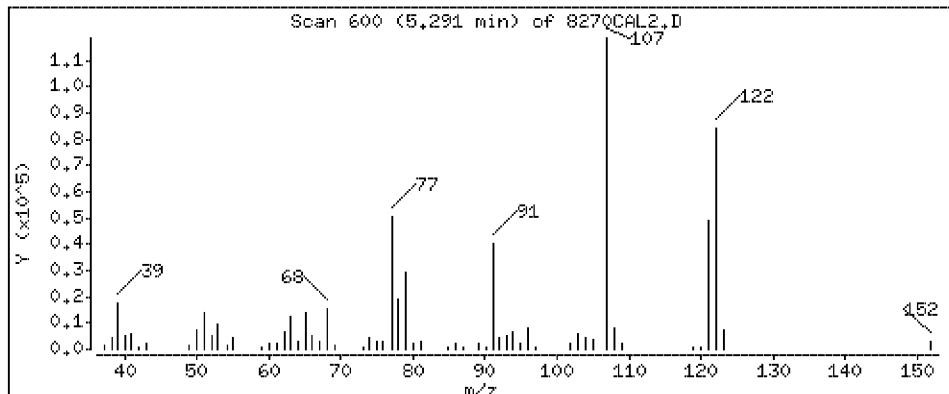
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

36 2,4-Dimethylphenol

Concentration: 9.6 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

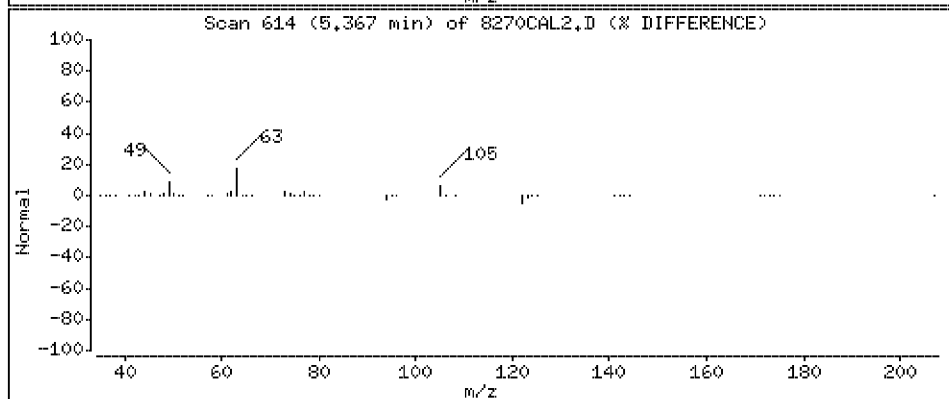
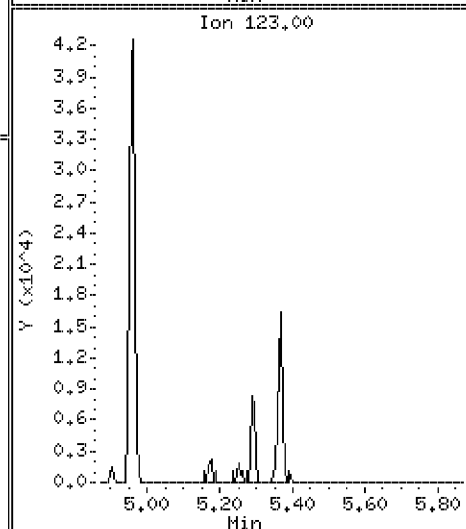
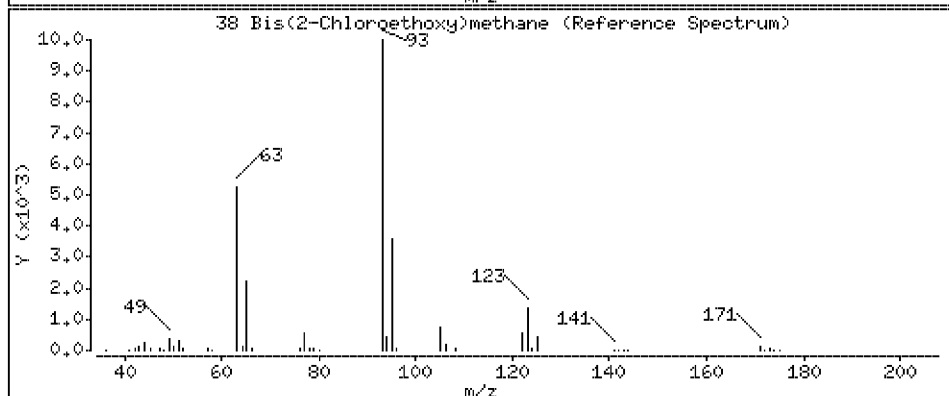
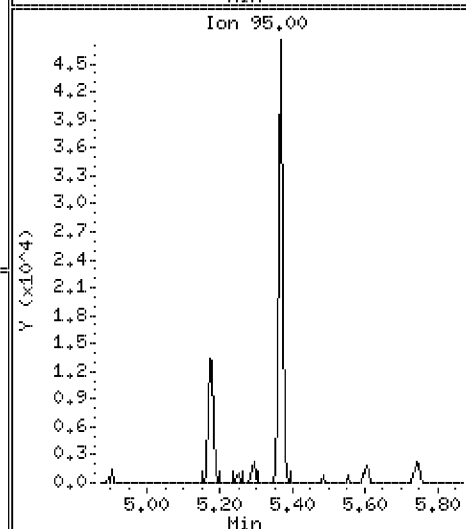
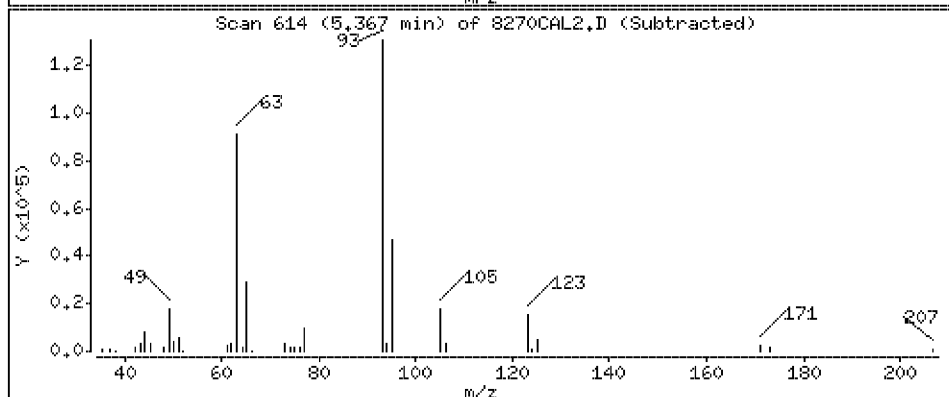
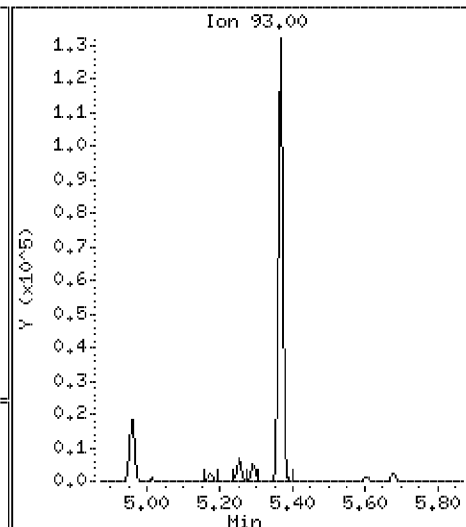
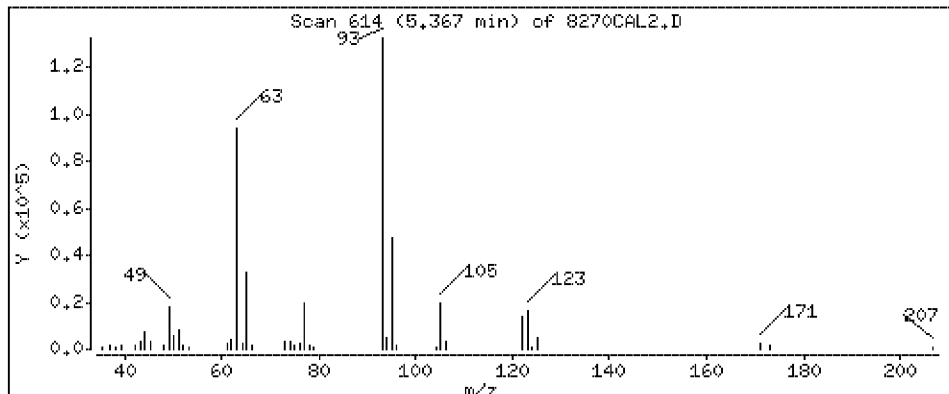
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

38 Bis(2-Chloroethoxy)methane

Concentration: 9.5 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

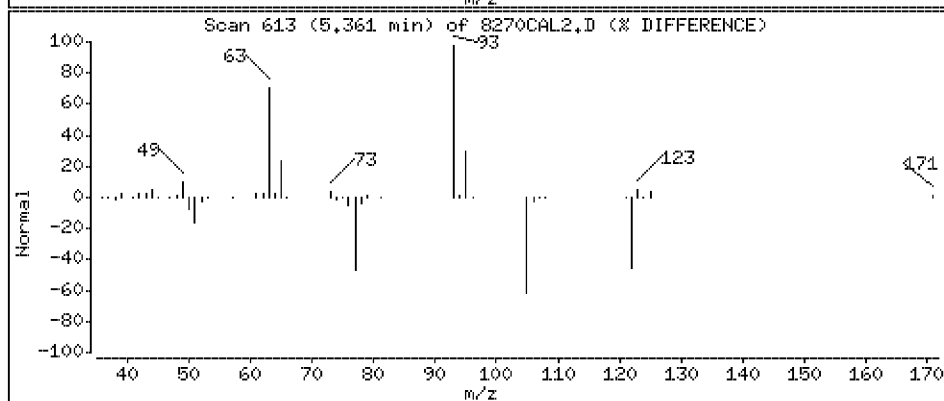
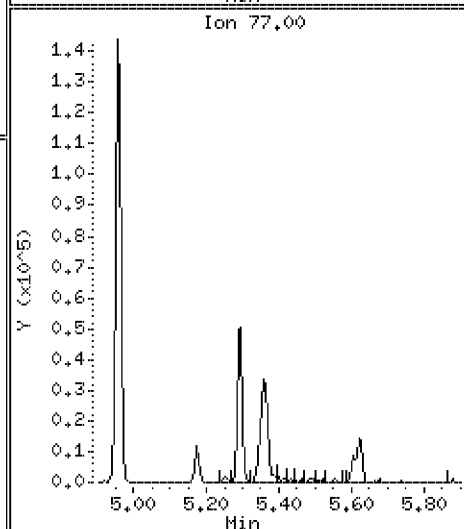
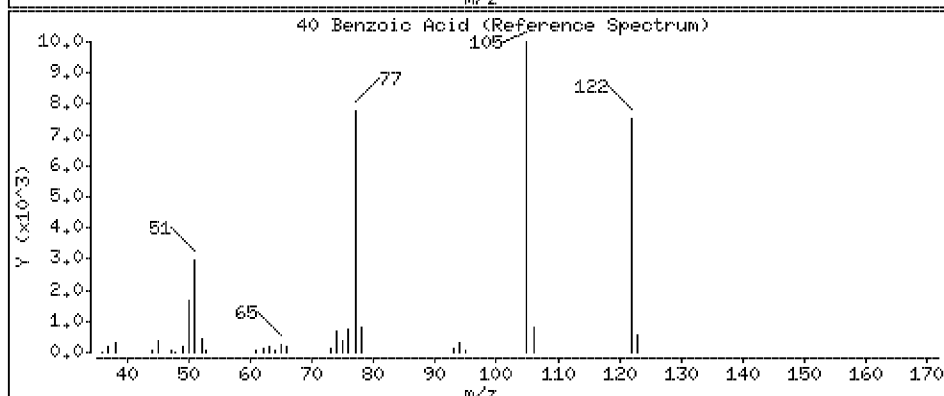
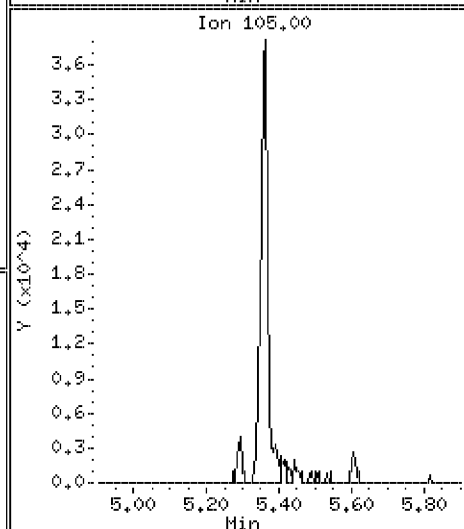
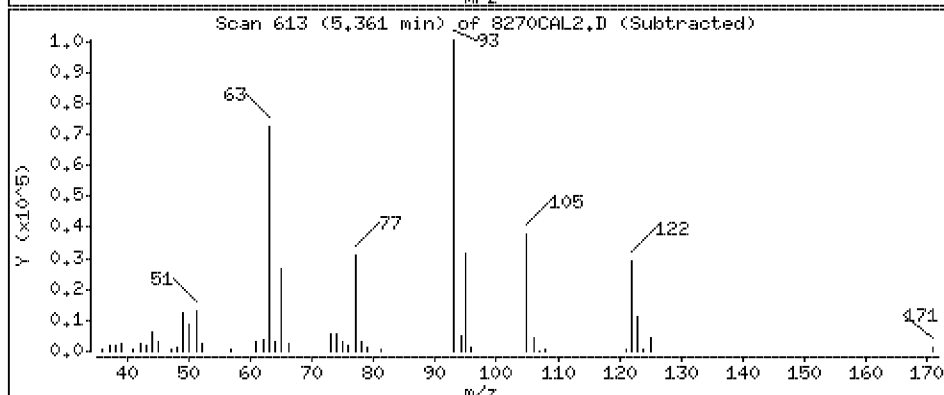
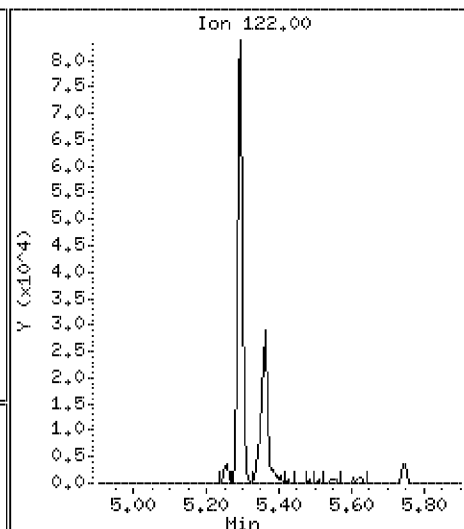
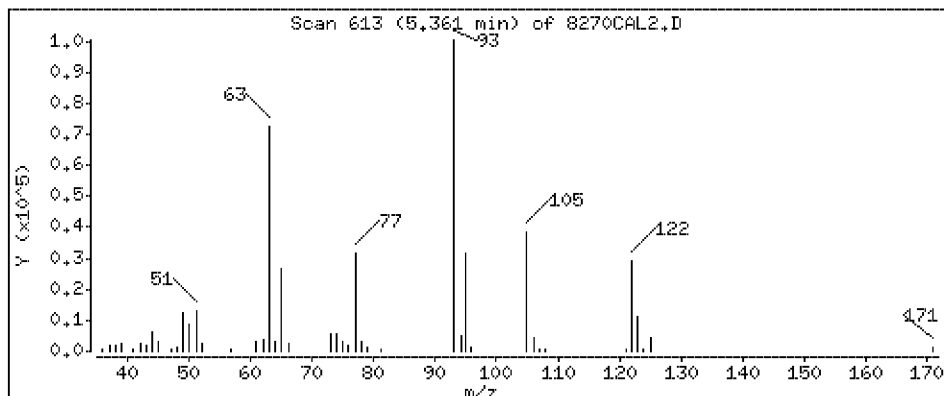
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

40 Benzoic Acid

Concentration: 10.2 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

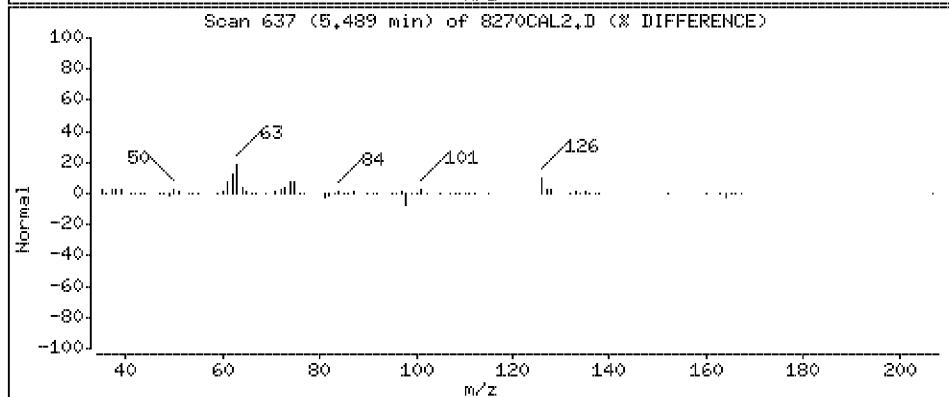
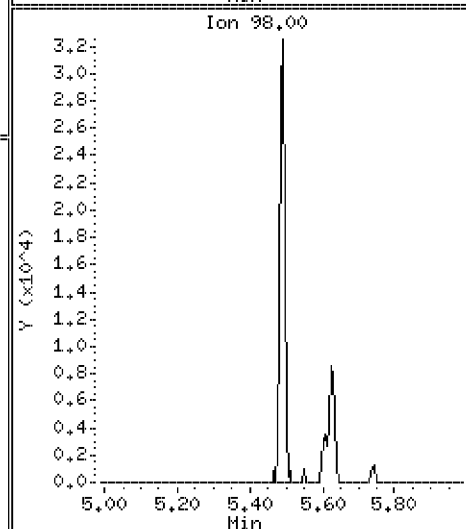
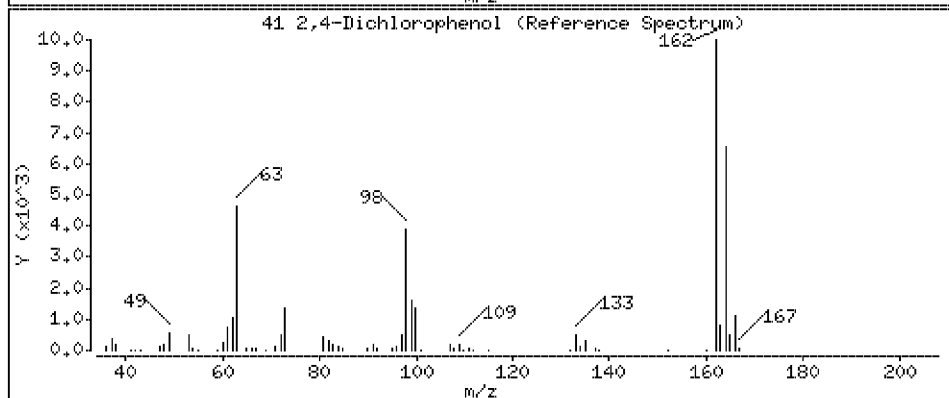
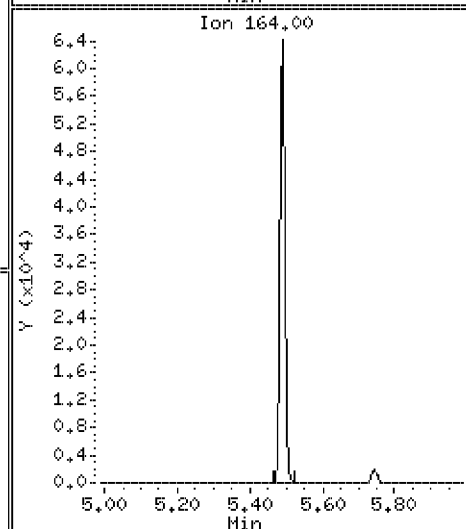
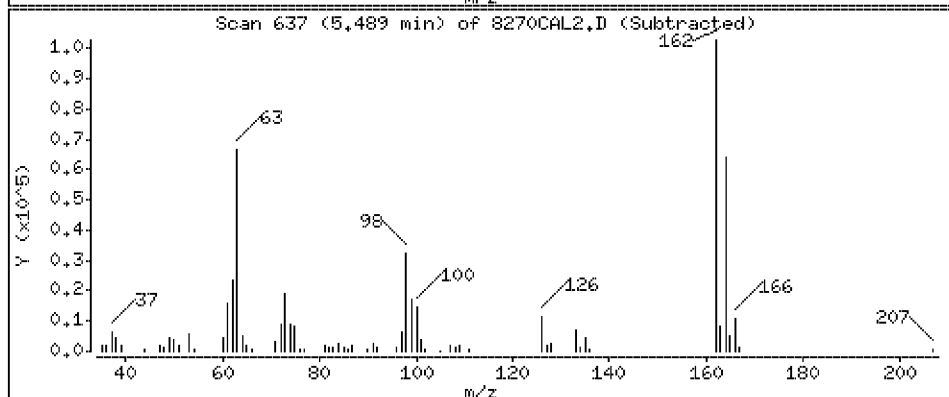
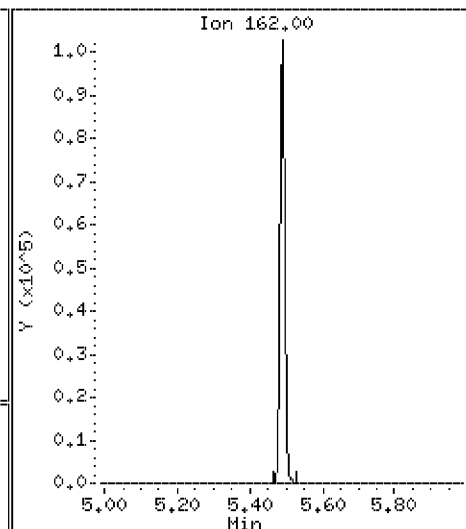
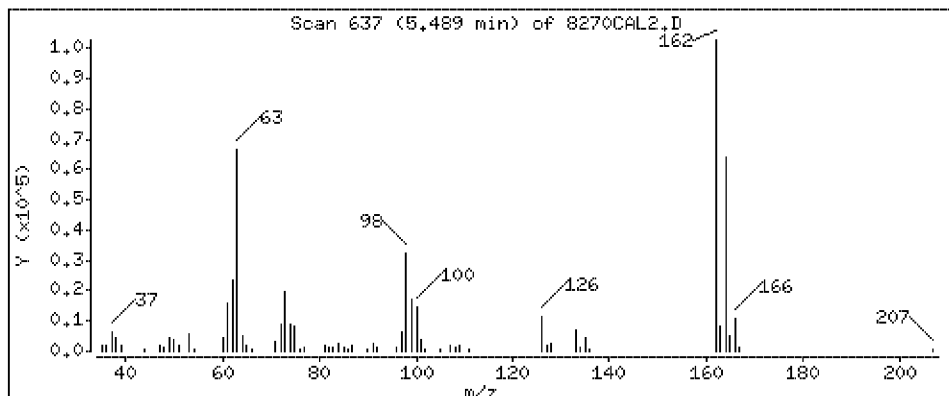
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

41 2,4-Dichlorophenol

Concentration: 9.7 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

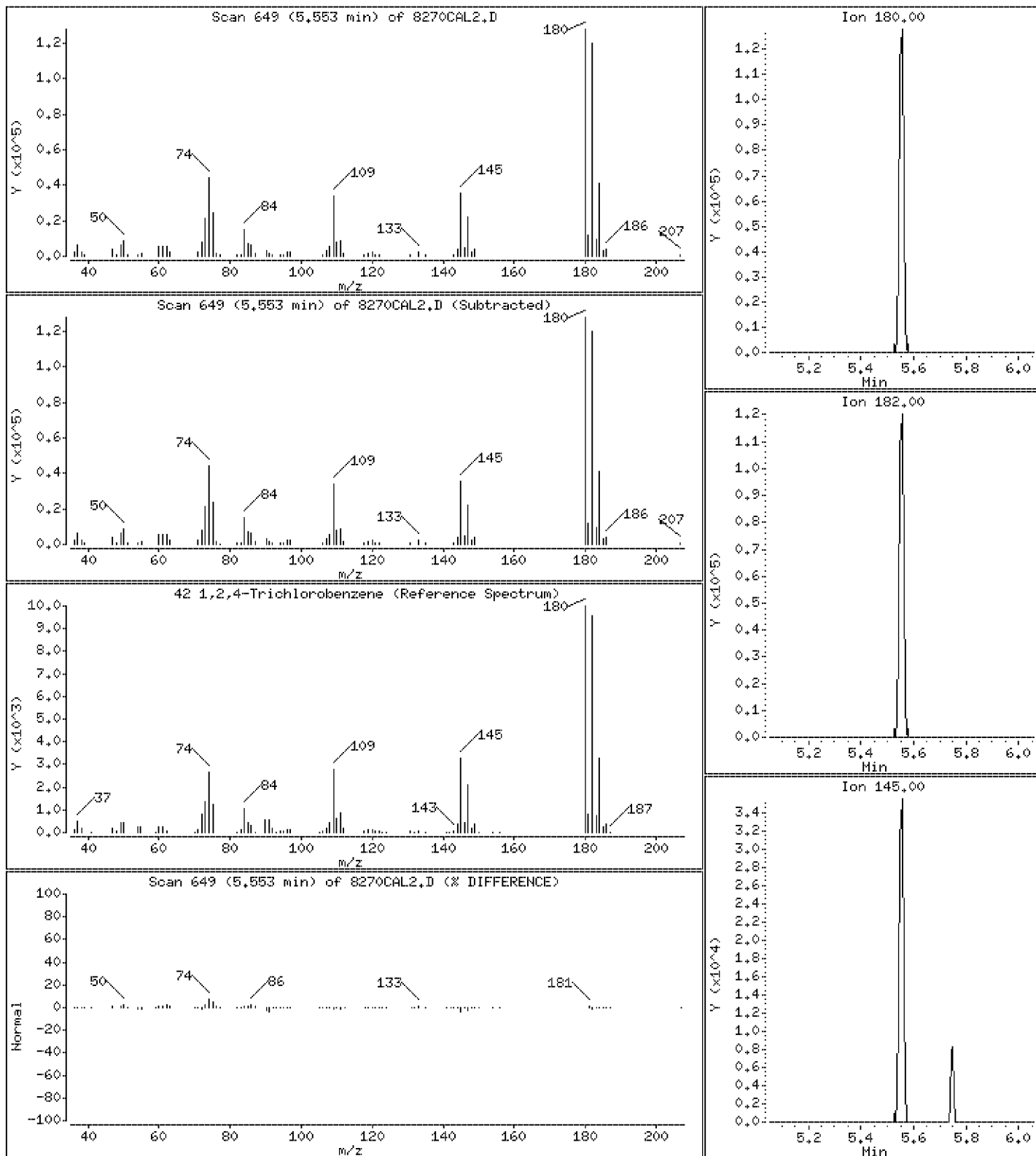
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

42 1,2,4-Trichlorobenzene

Concentration: 9.6 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

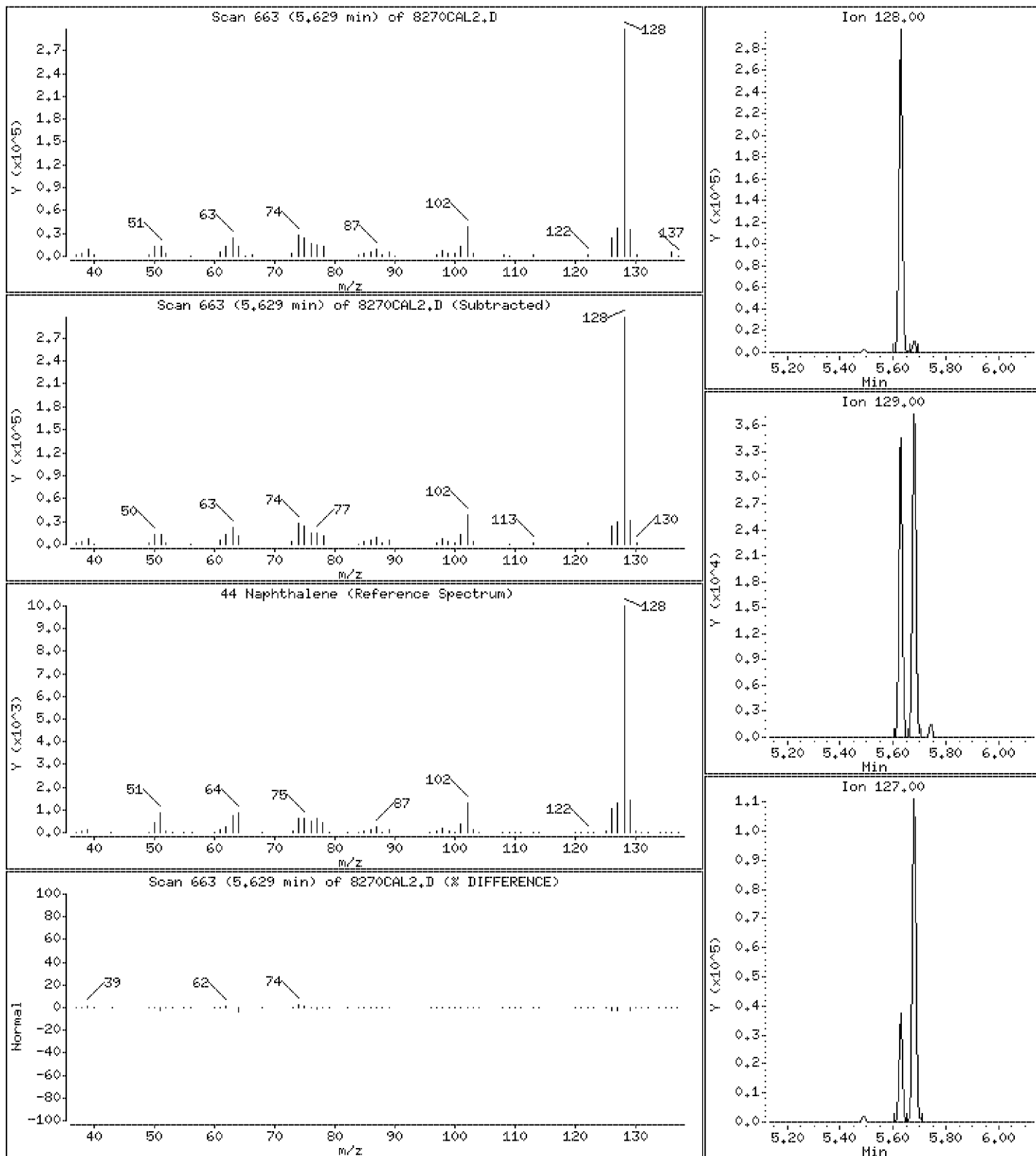
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

44 Naphthalene

Concentration: 9.6 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

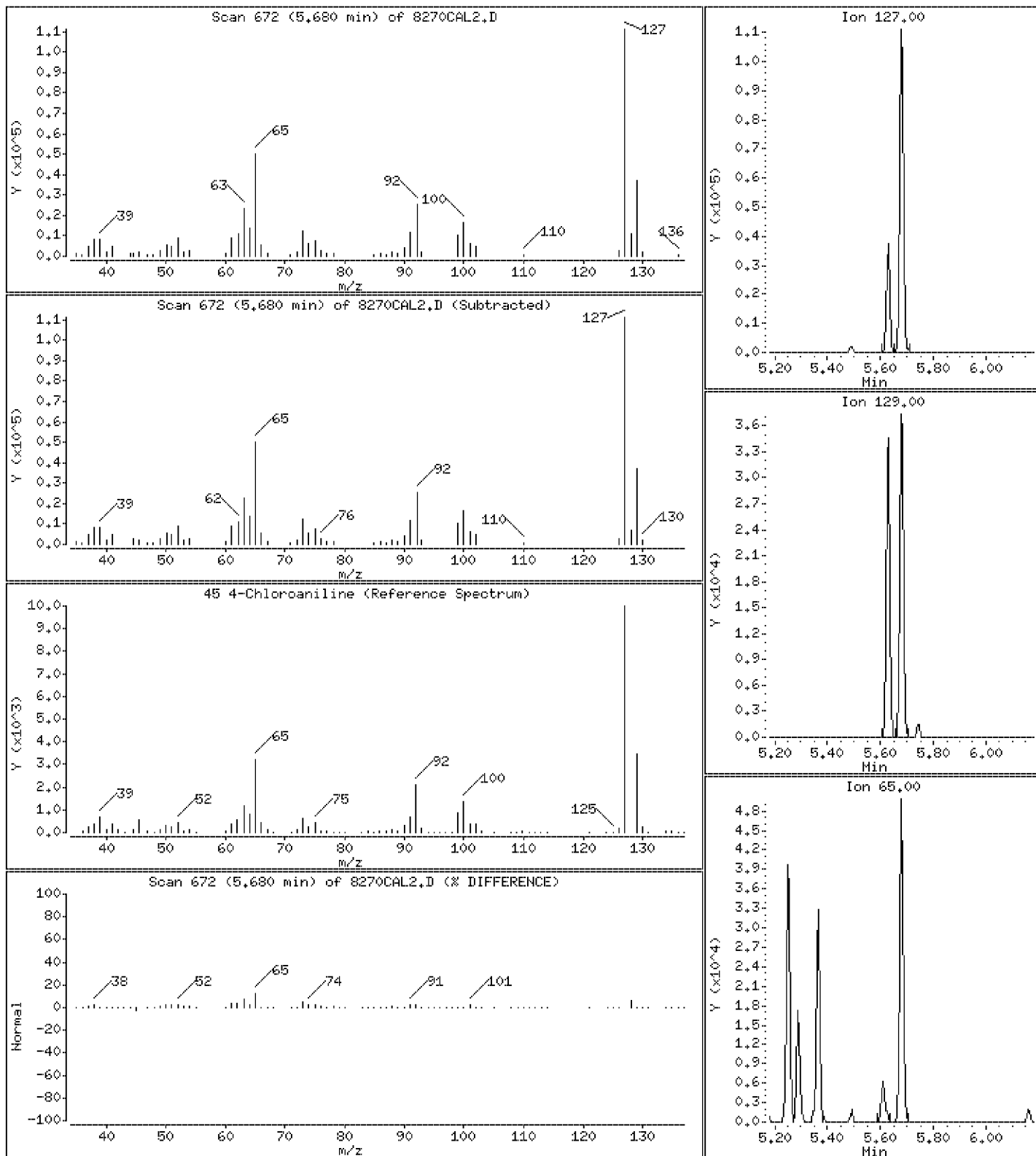
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

45 4-Chloroaniline

Concentration: 9.5 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

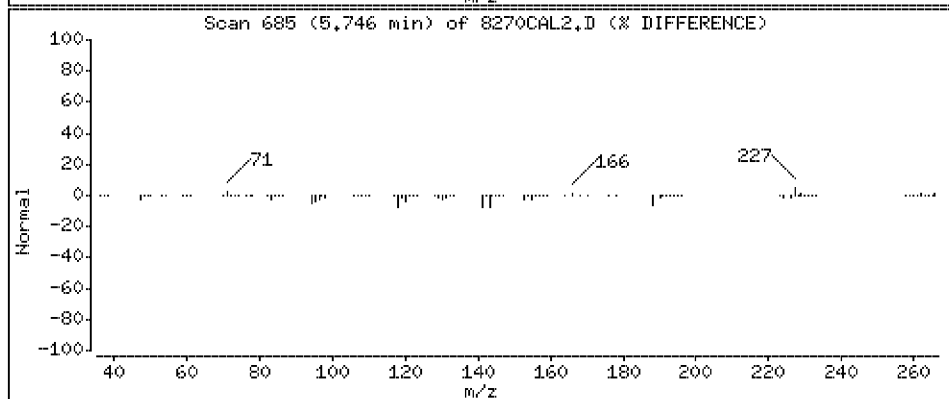
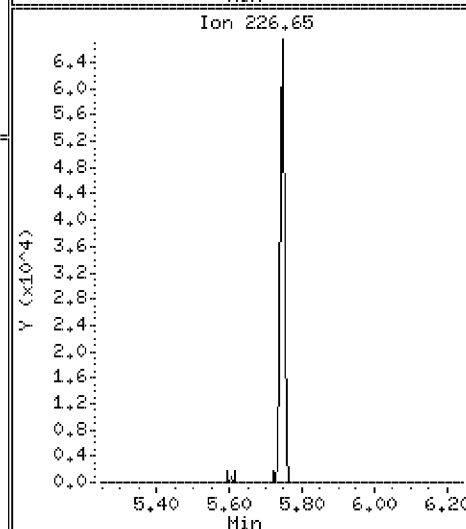
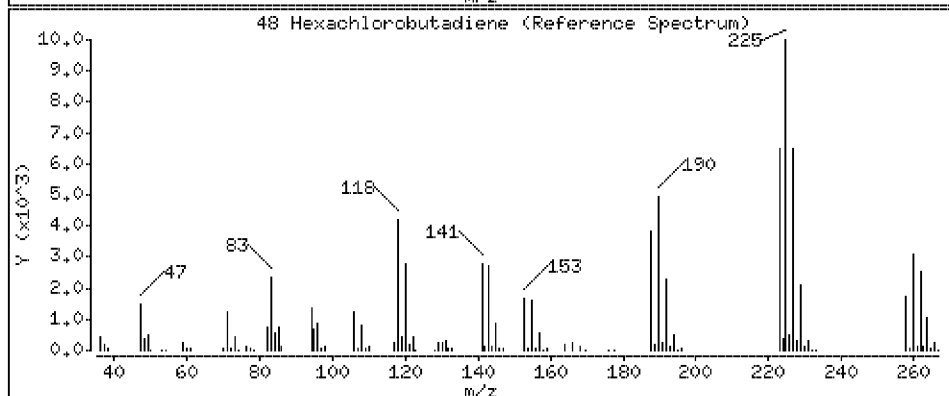
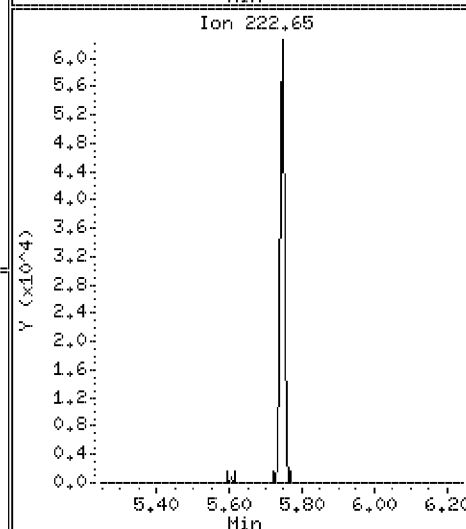
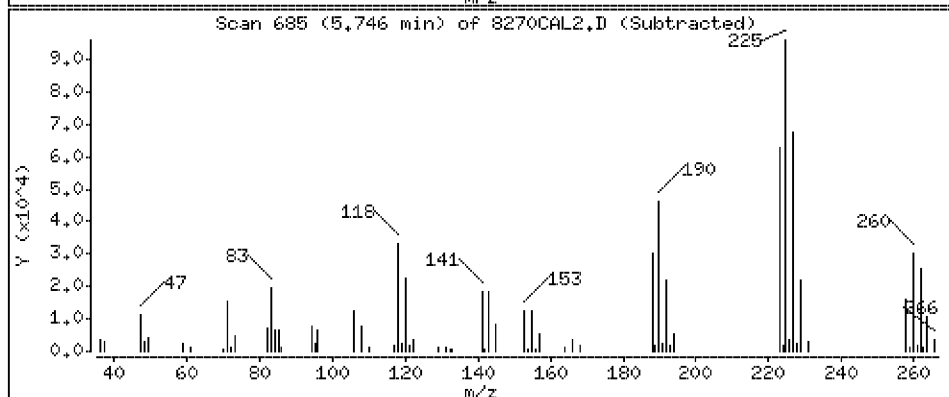
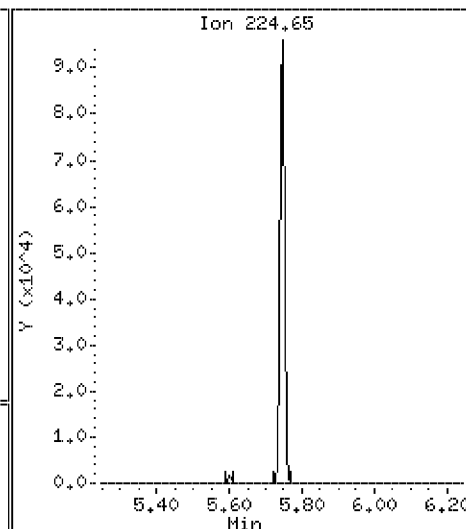
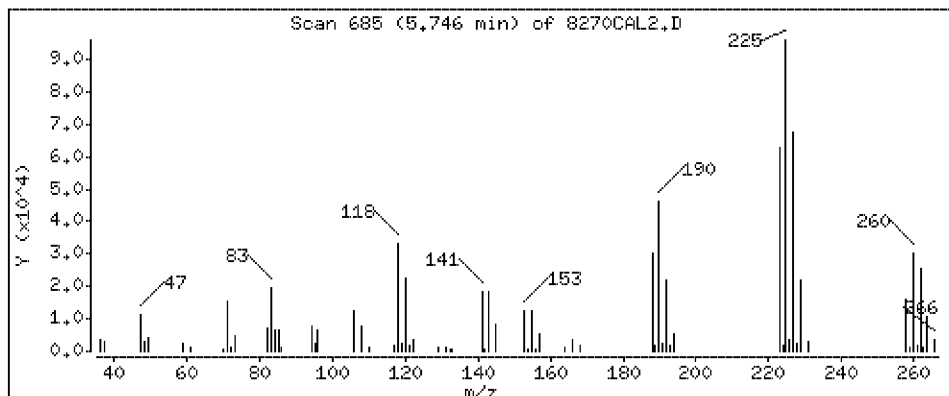
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

48 Hexachlorobutadiene

Concentration: 9.2 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

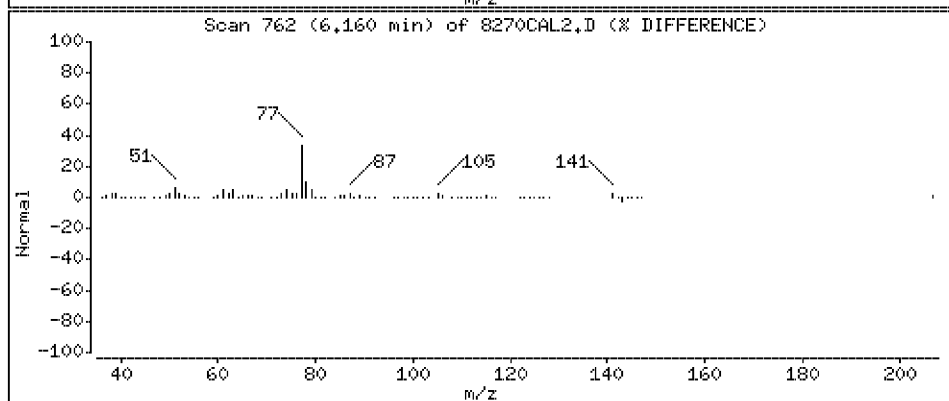
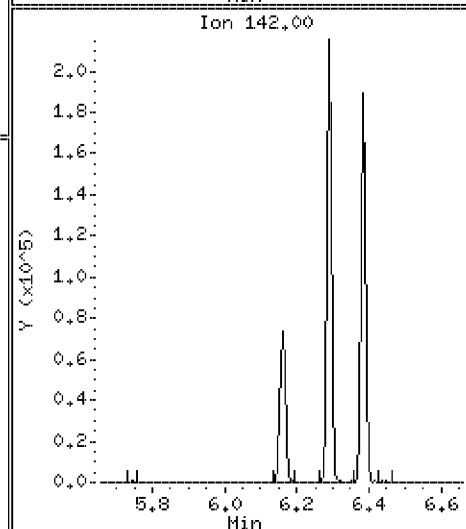
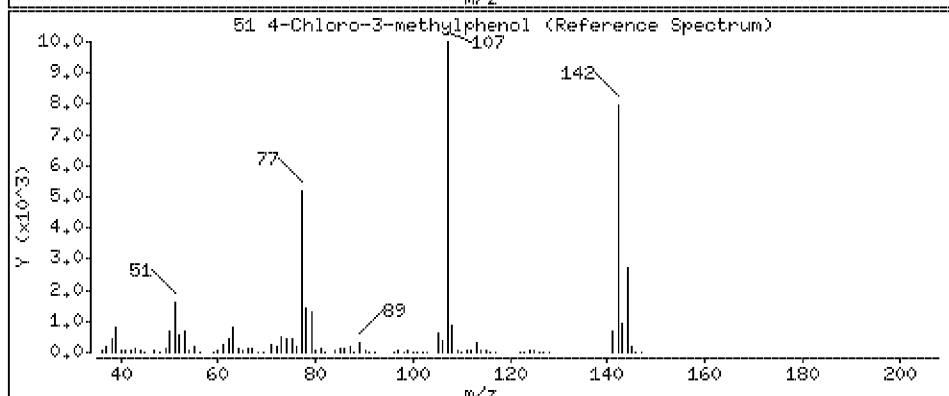
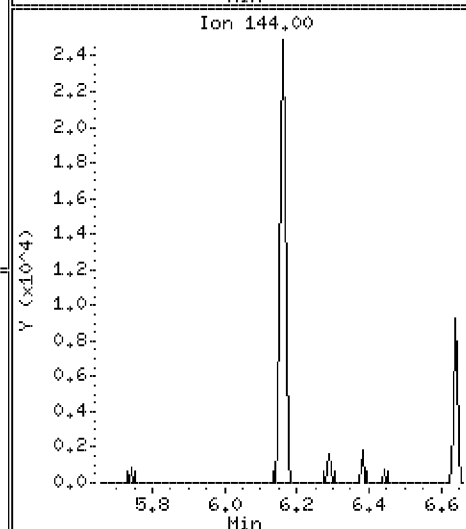
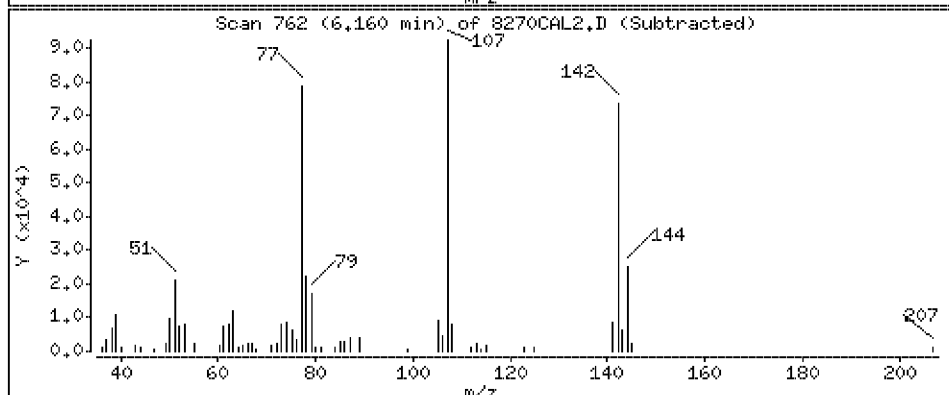
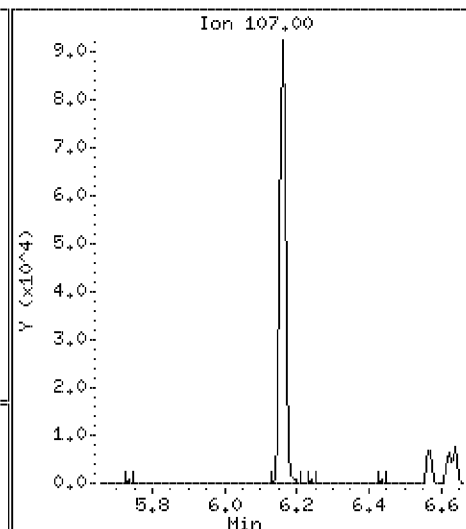
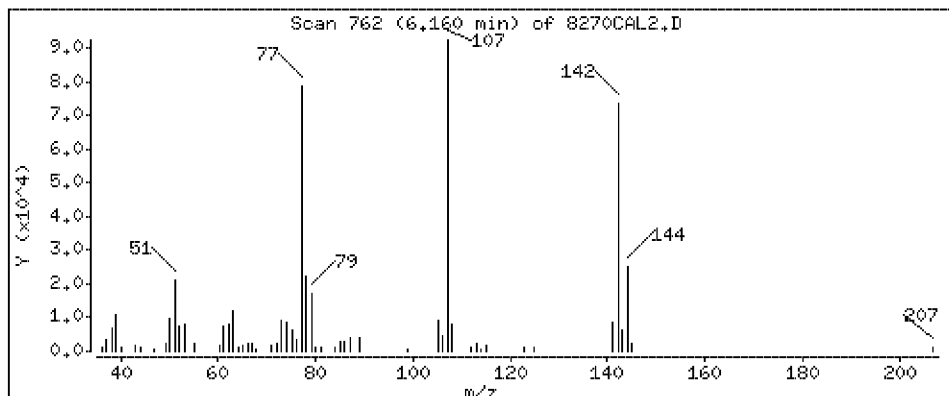
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

51 4-Chloro-3-methylphenol

Concentration: 9.3 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

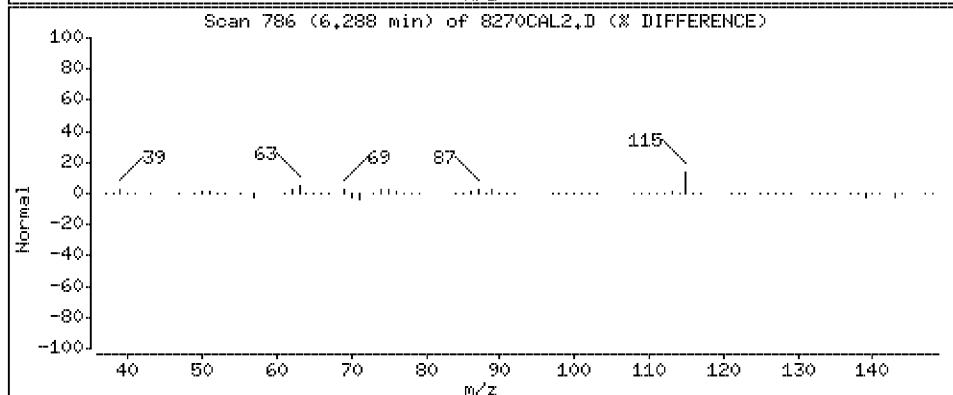
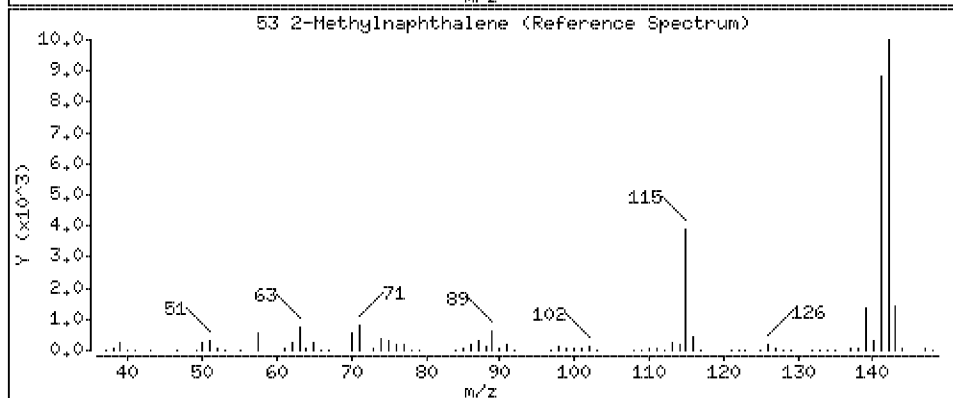
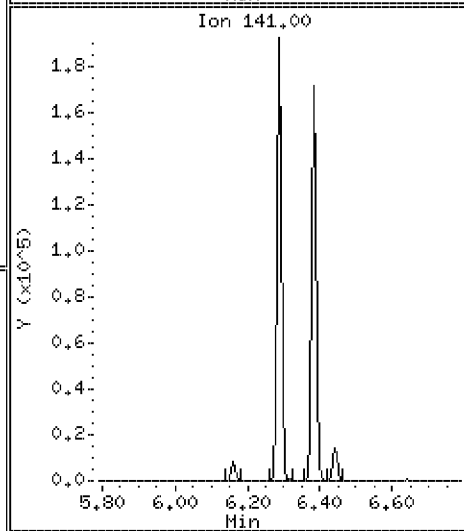
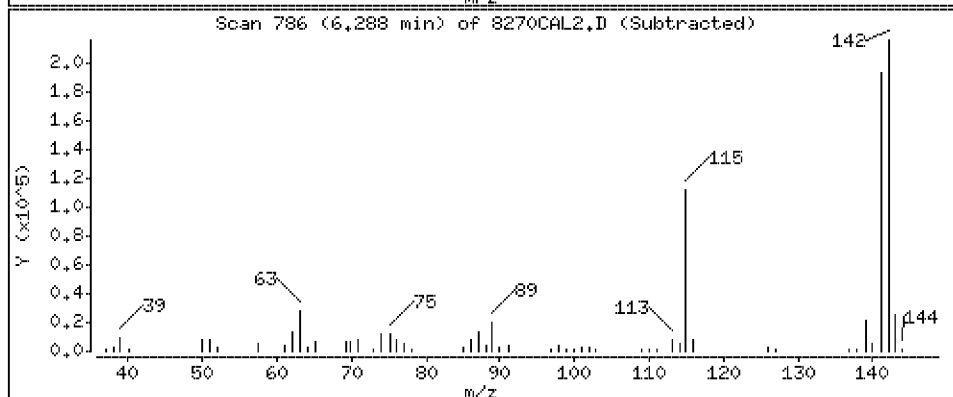
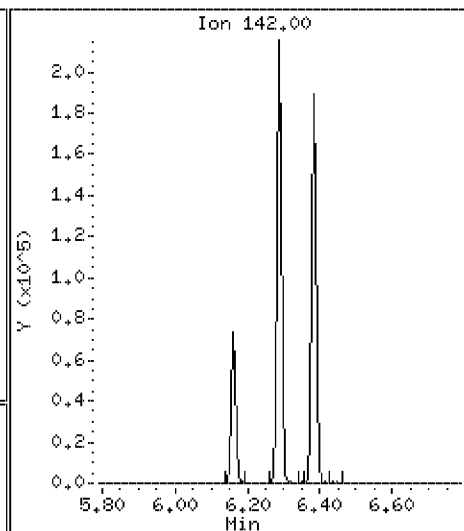
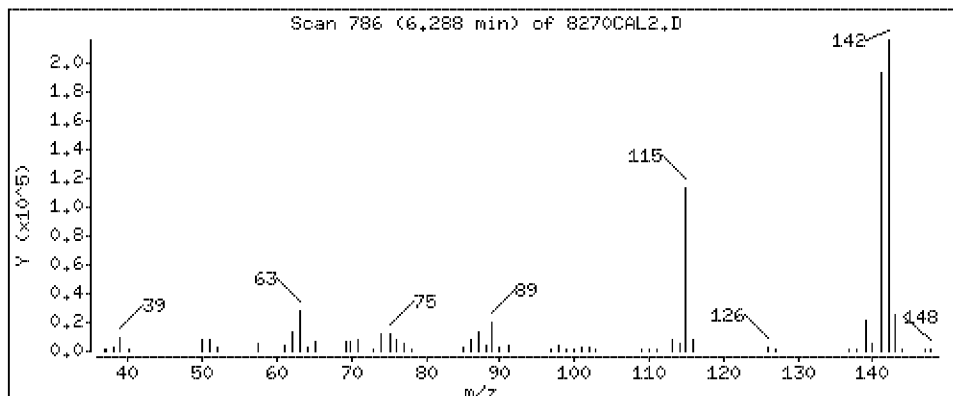
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

53 2-Methylnaphthalene

Concentration: 9.4 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

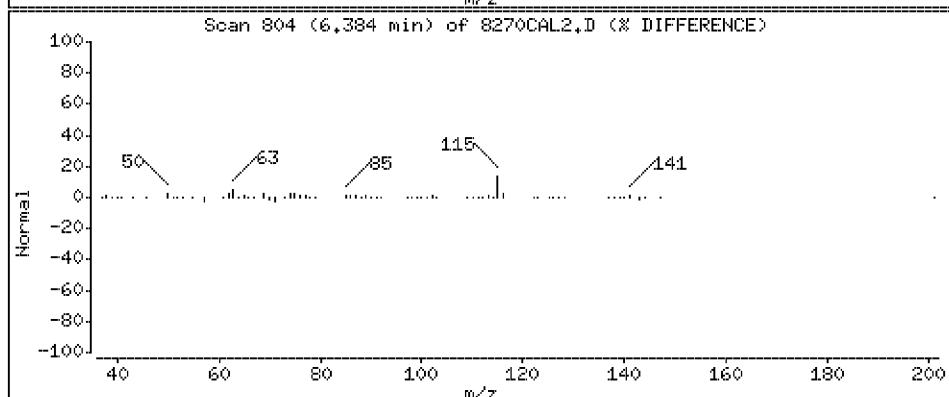
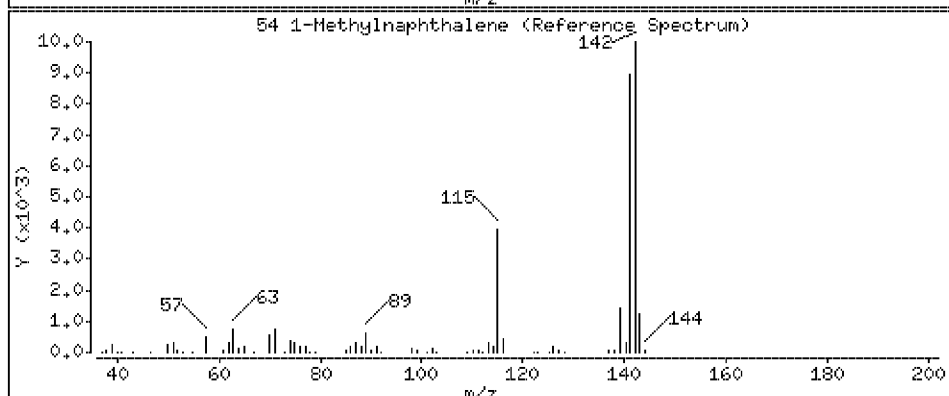
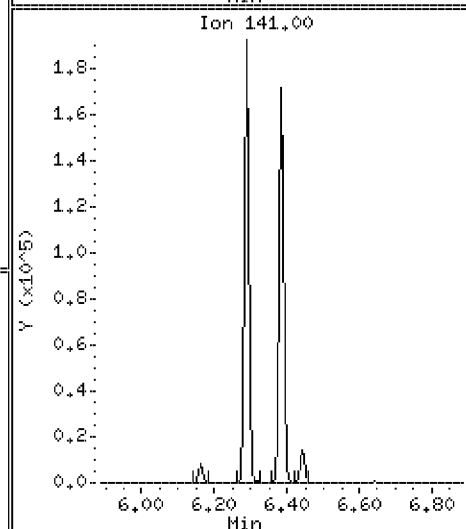
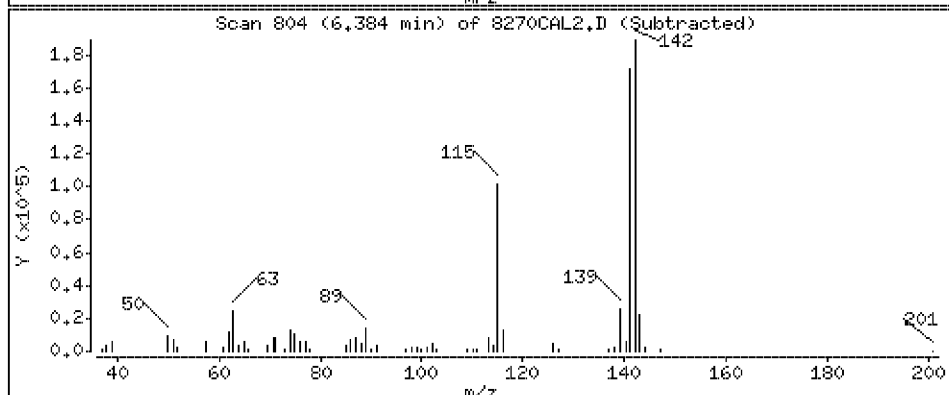
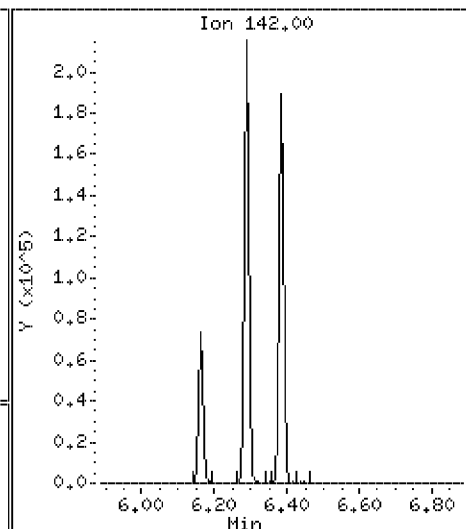
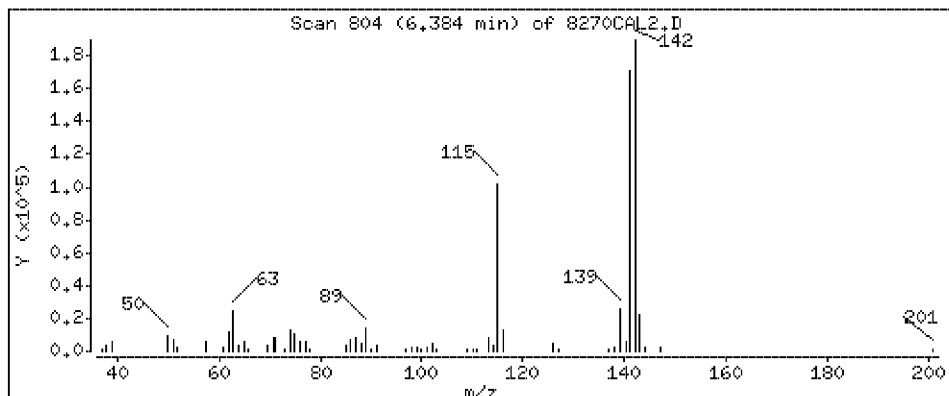
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

54 1-Methylnaphthalene

Concentration: 9.4 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

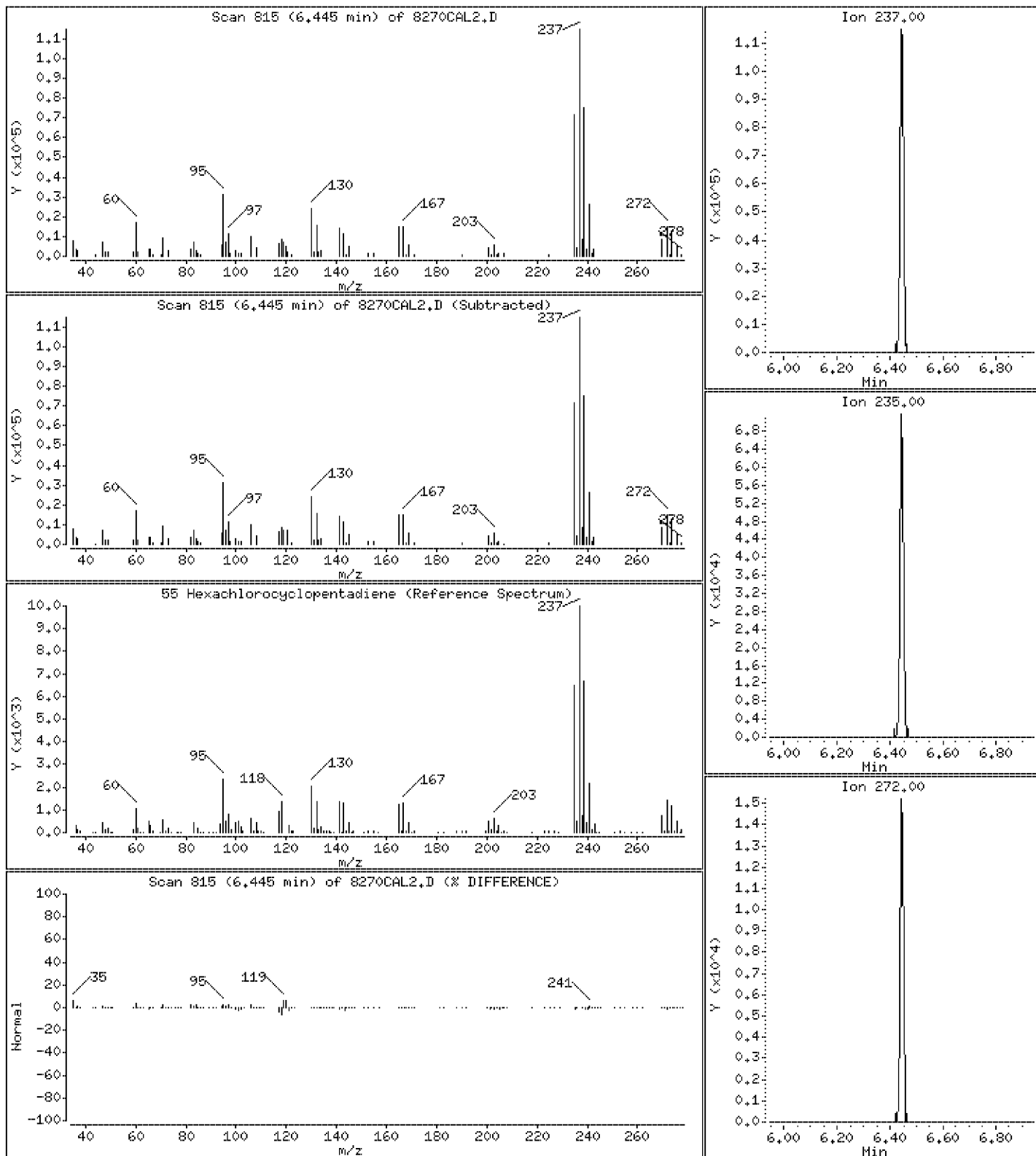
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

55 Hexachlorocyclopentadiene

Concentration: 9.1 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

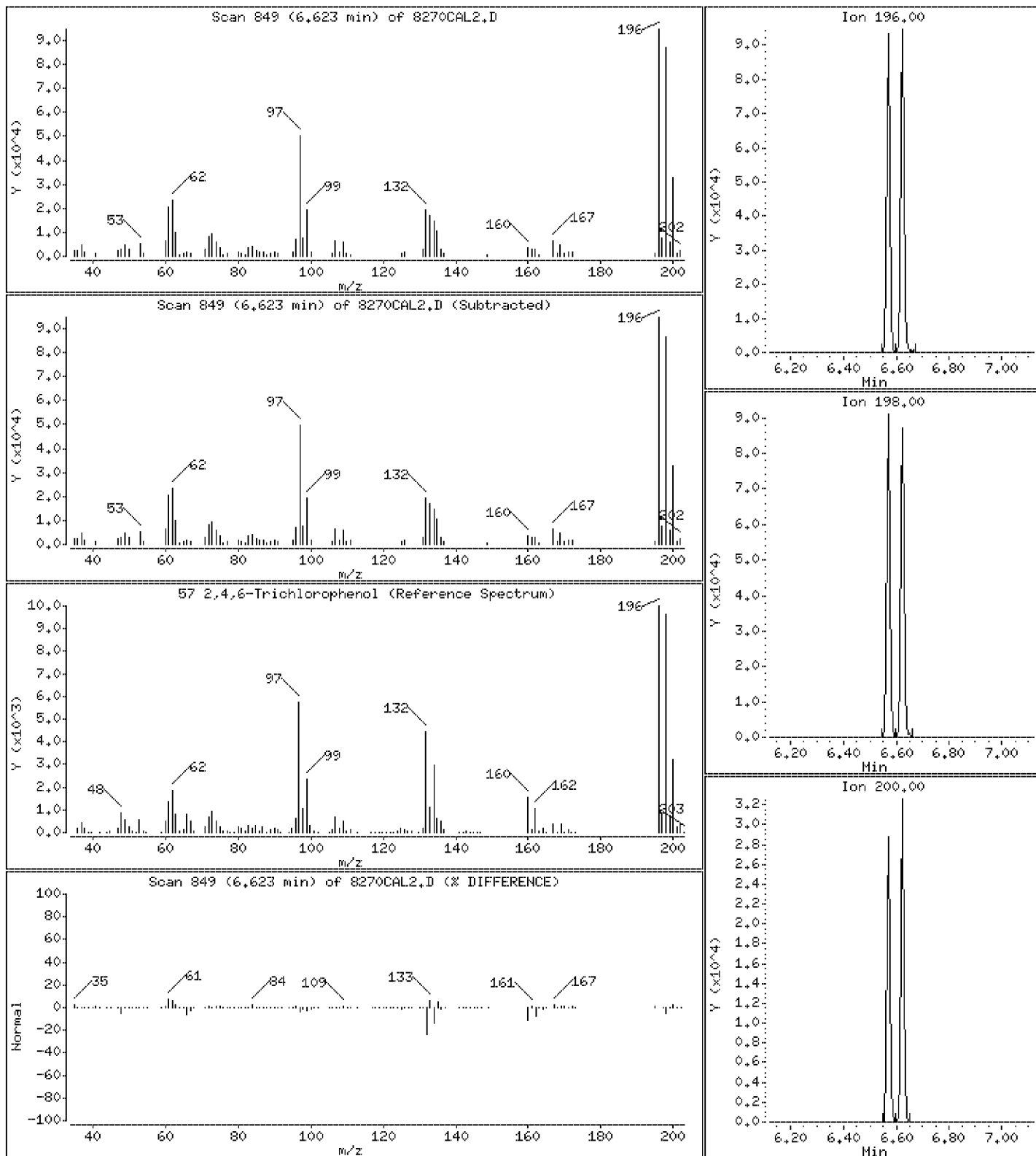
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

57 2,4,6-Trichlorophenol

Concentration: 9.3 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

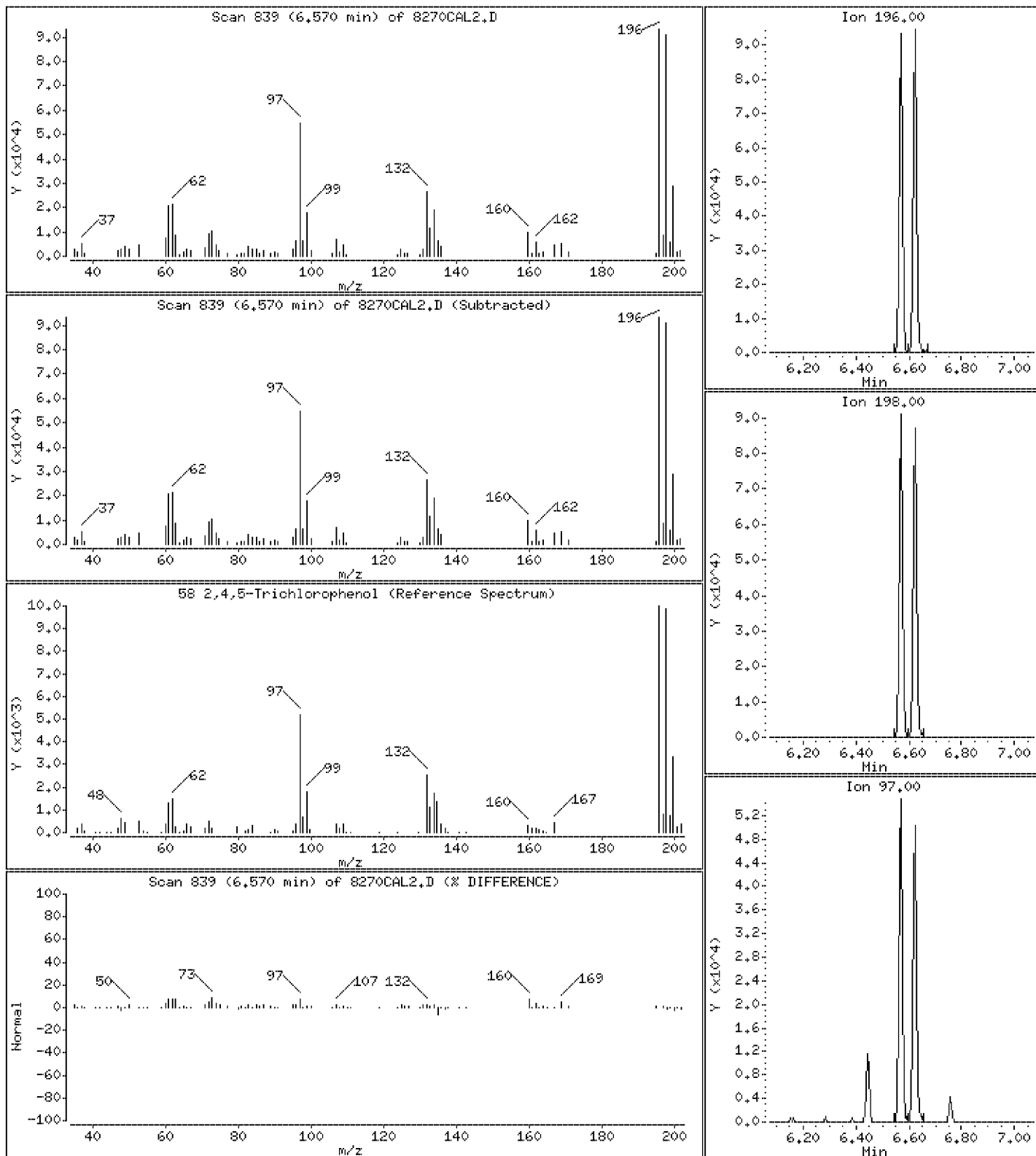
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

58 2,4,5-Trichlorophenol

Concentration: 9.5 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

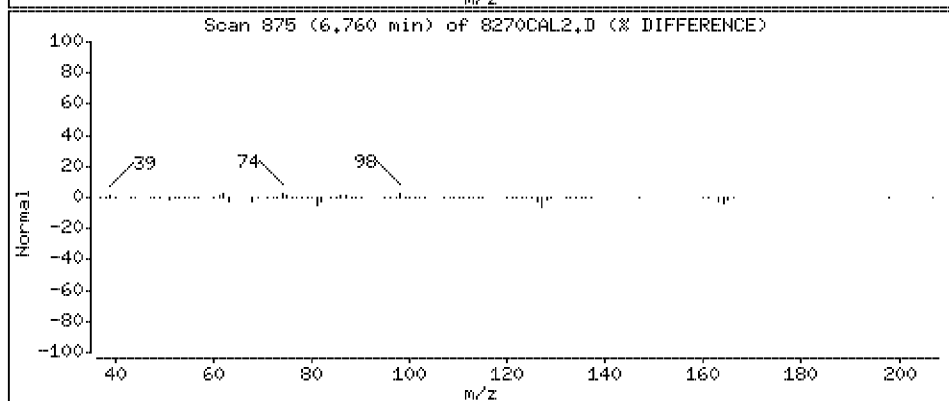
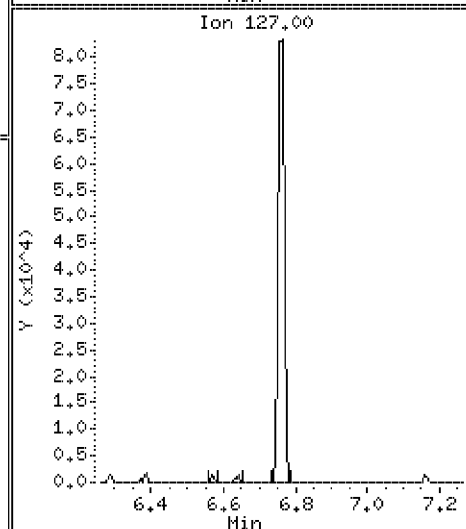
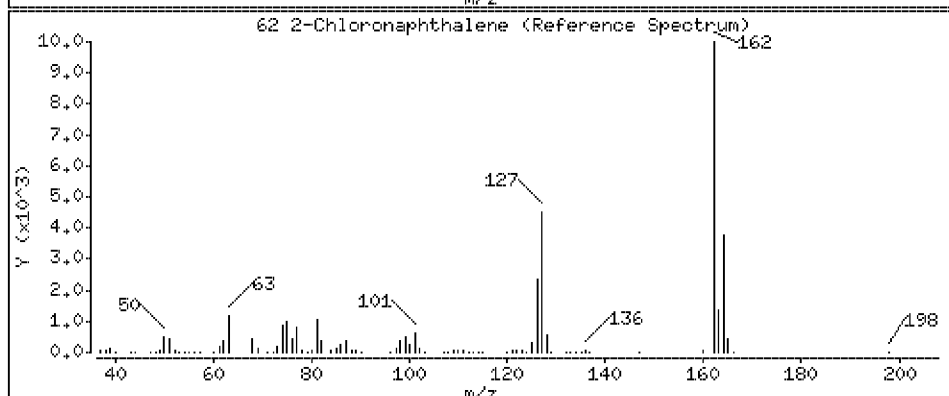
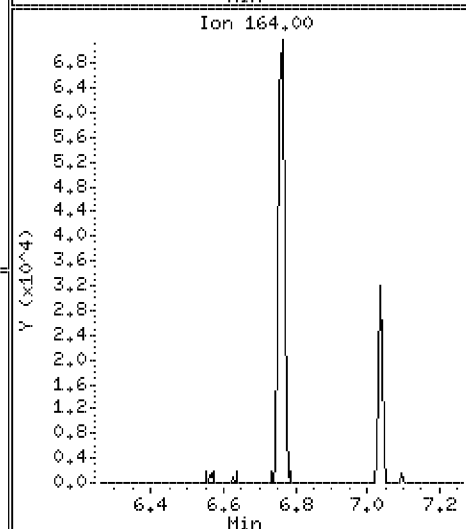
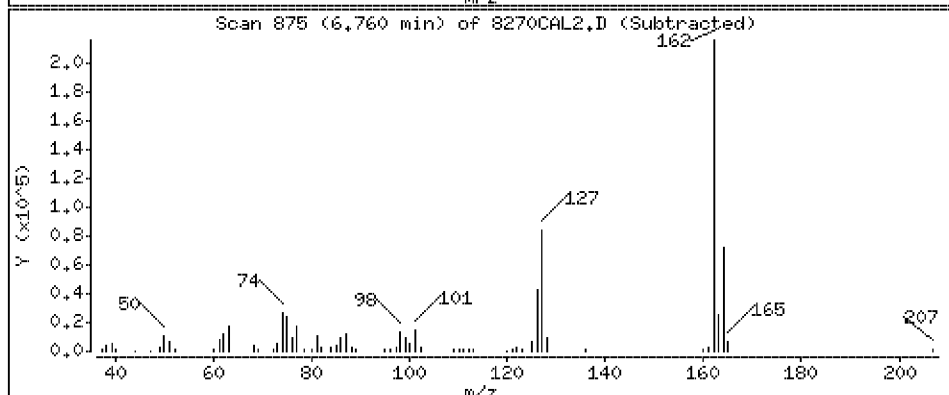
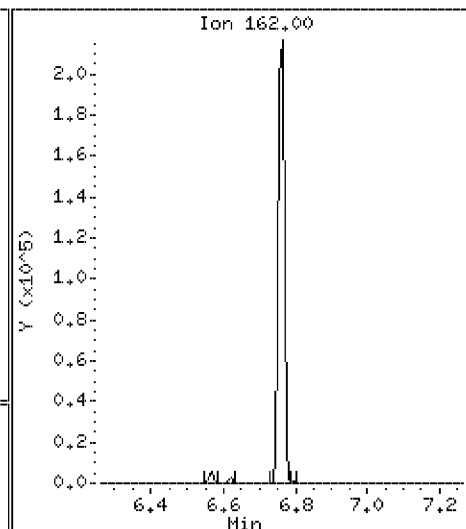
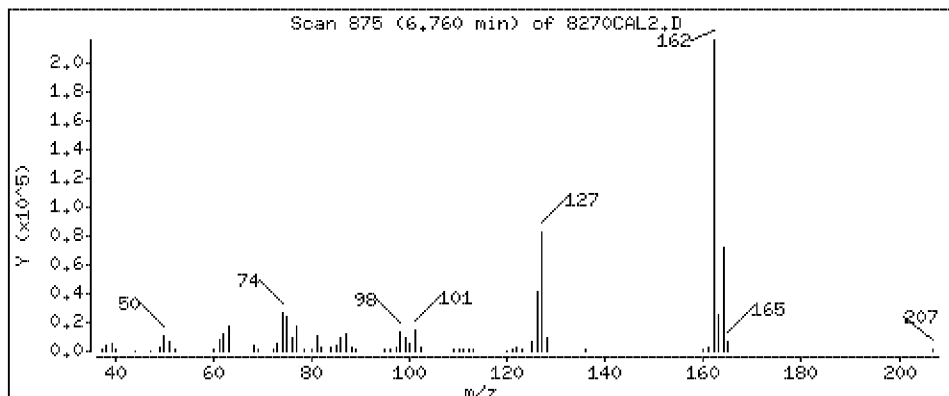
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

62 2-Chloronaphthalene

Concentration: 9.4 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

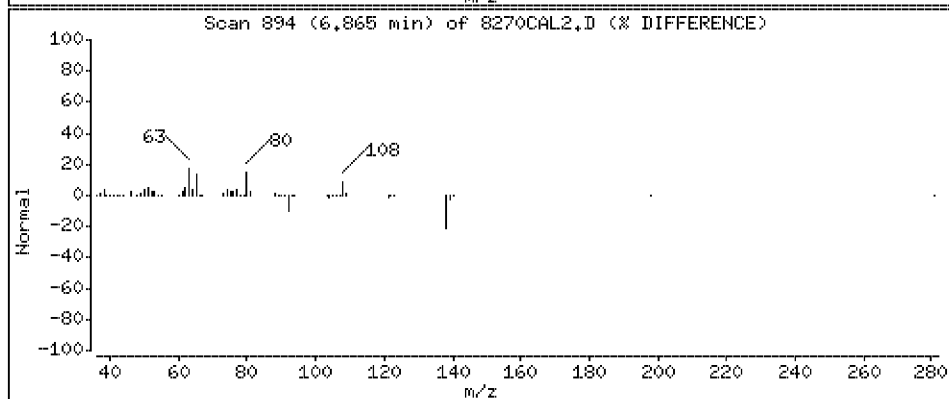
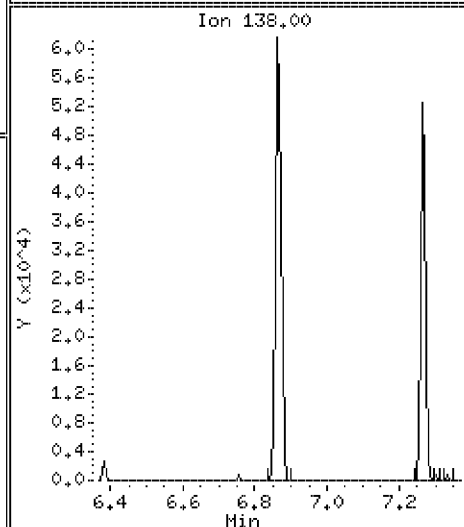
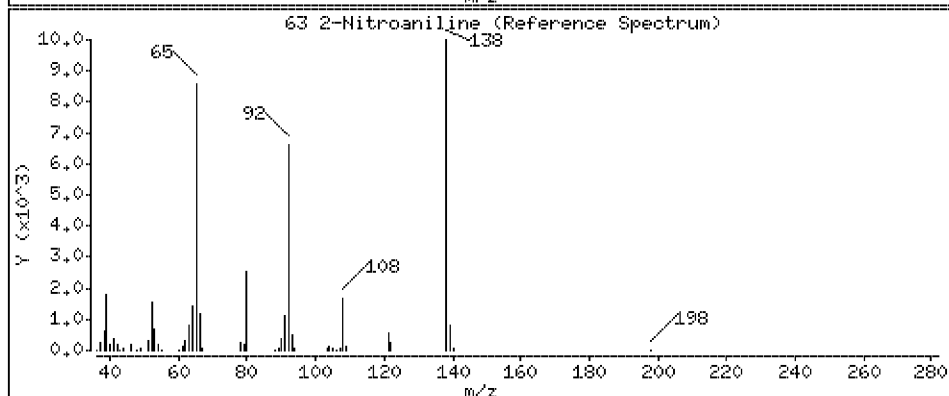
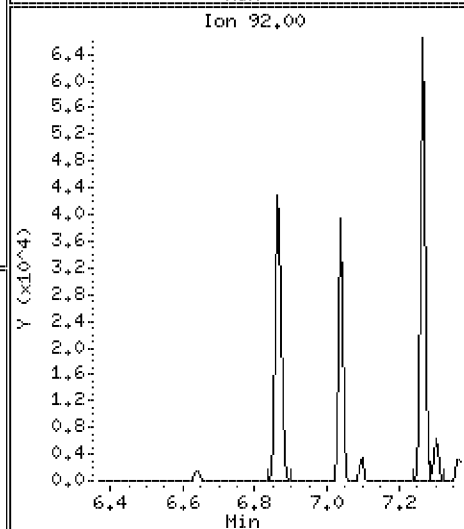
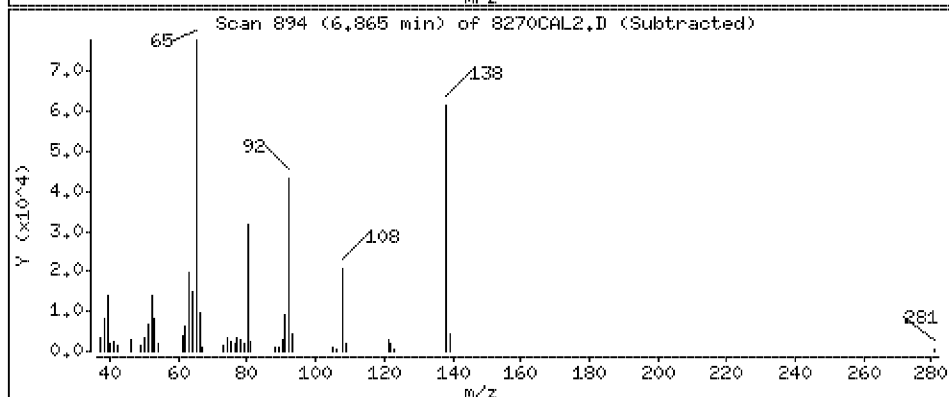
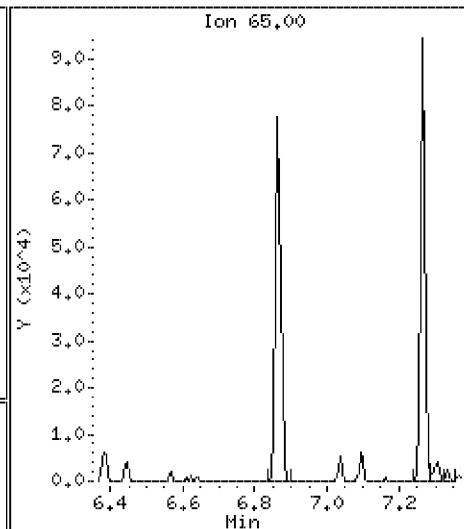
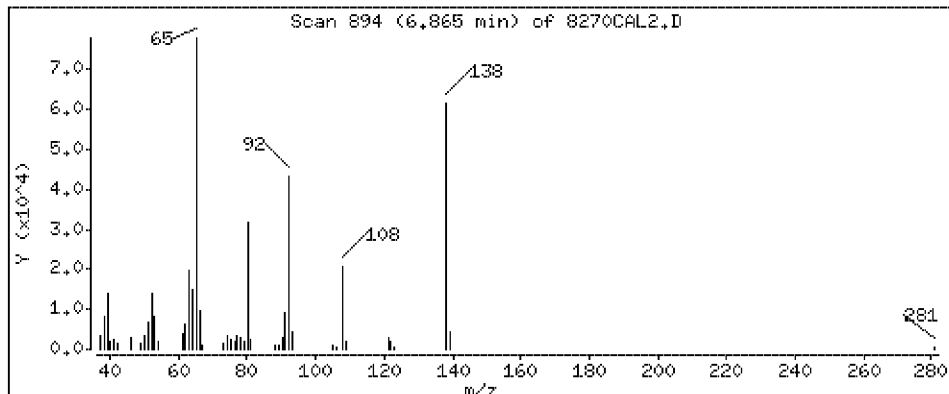
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

63 2-Nitroaniline

Concentration: 9.6 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

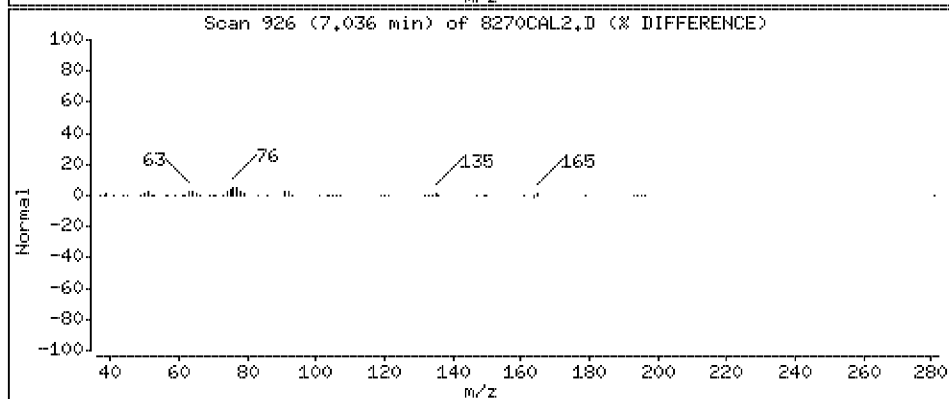
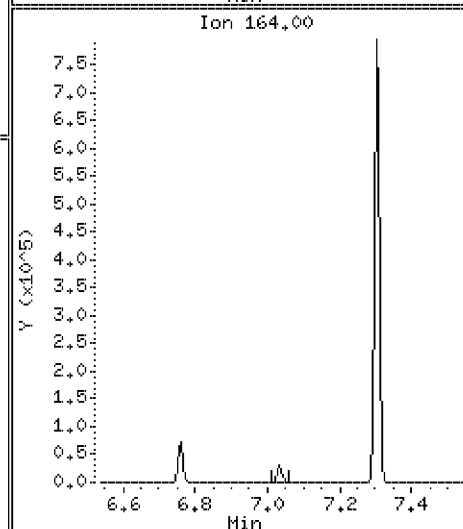
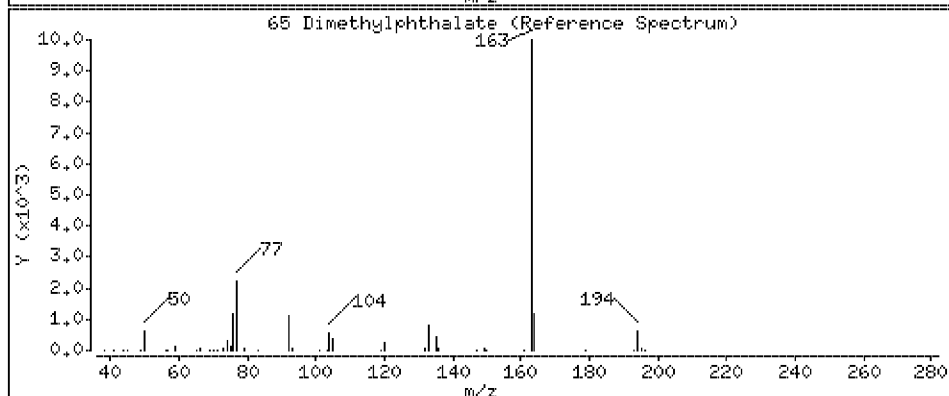
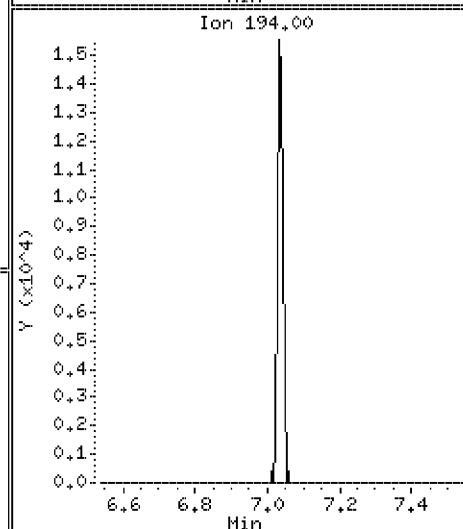
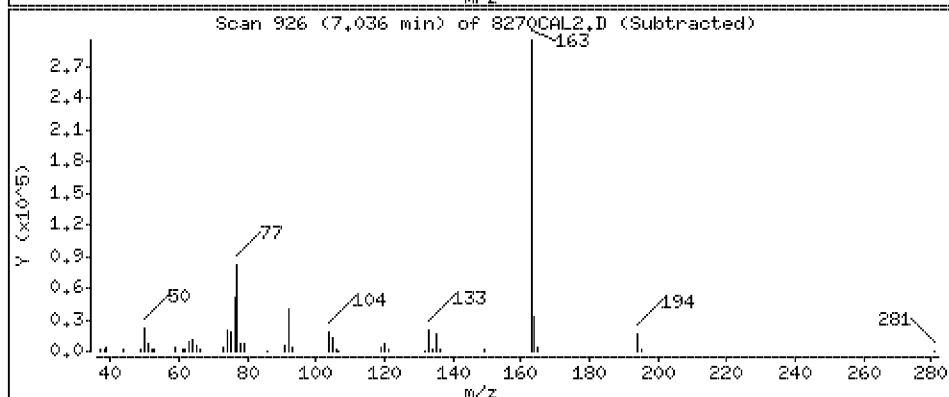
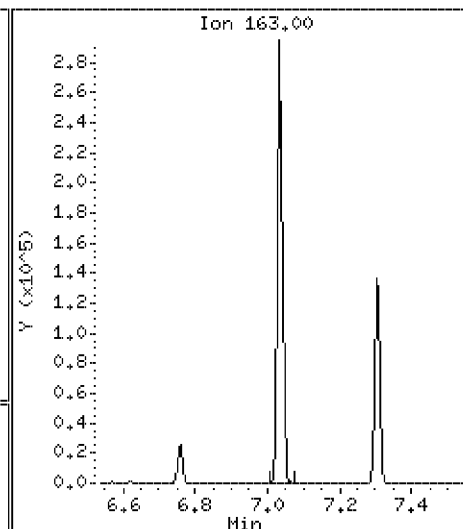
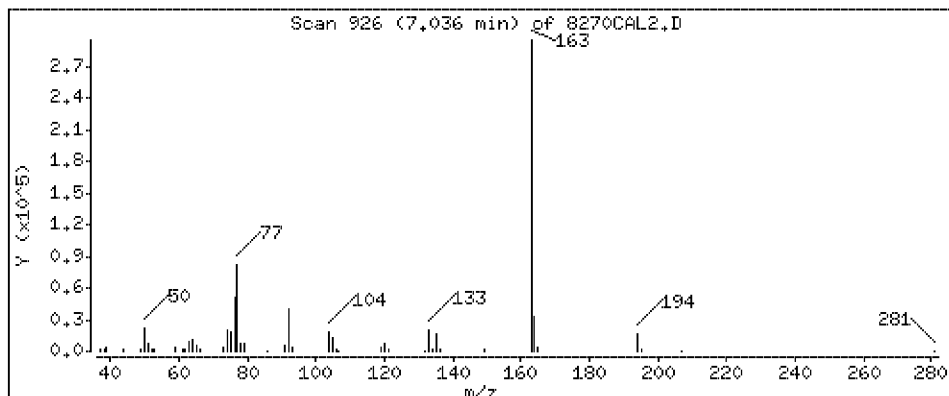
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

65 Dimethylphthalate

Concentration: 9.8 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

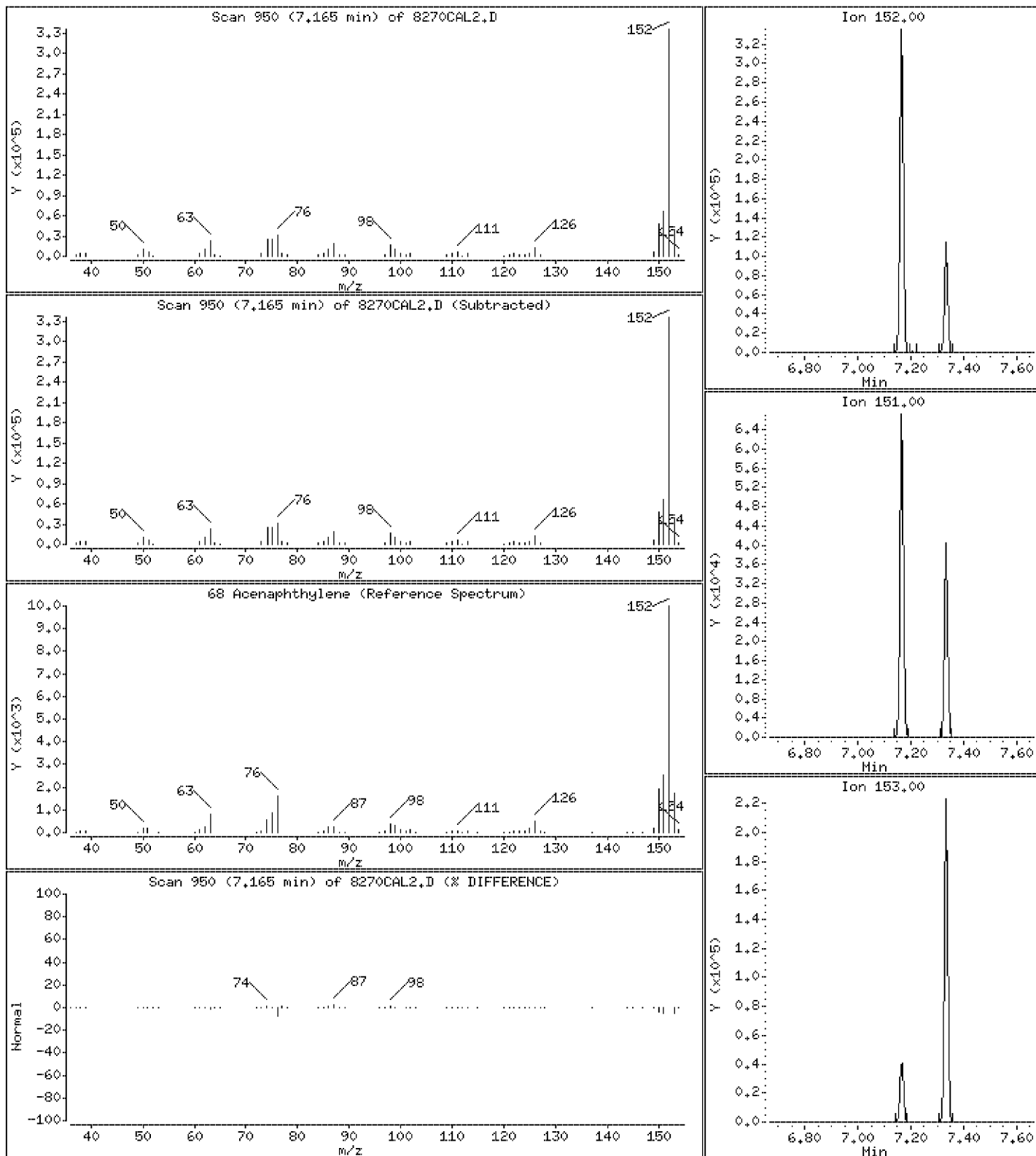
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

68 Acenaphthylene

Concentration: 9.6 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

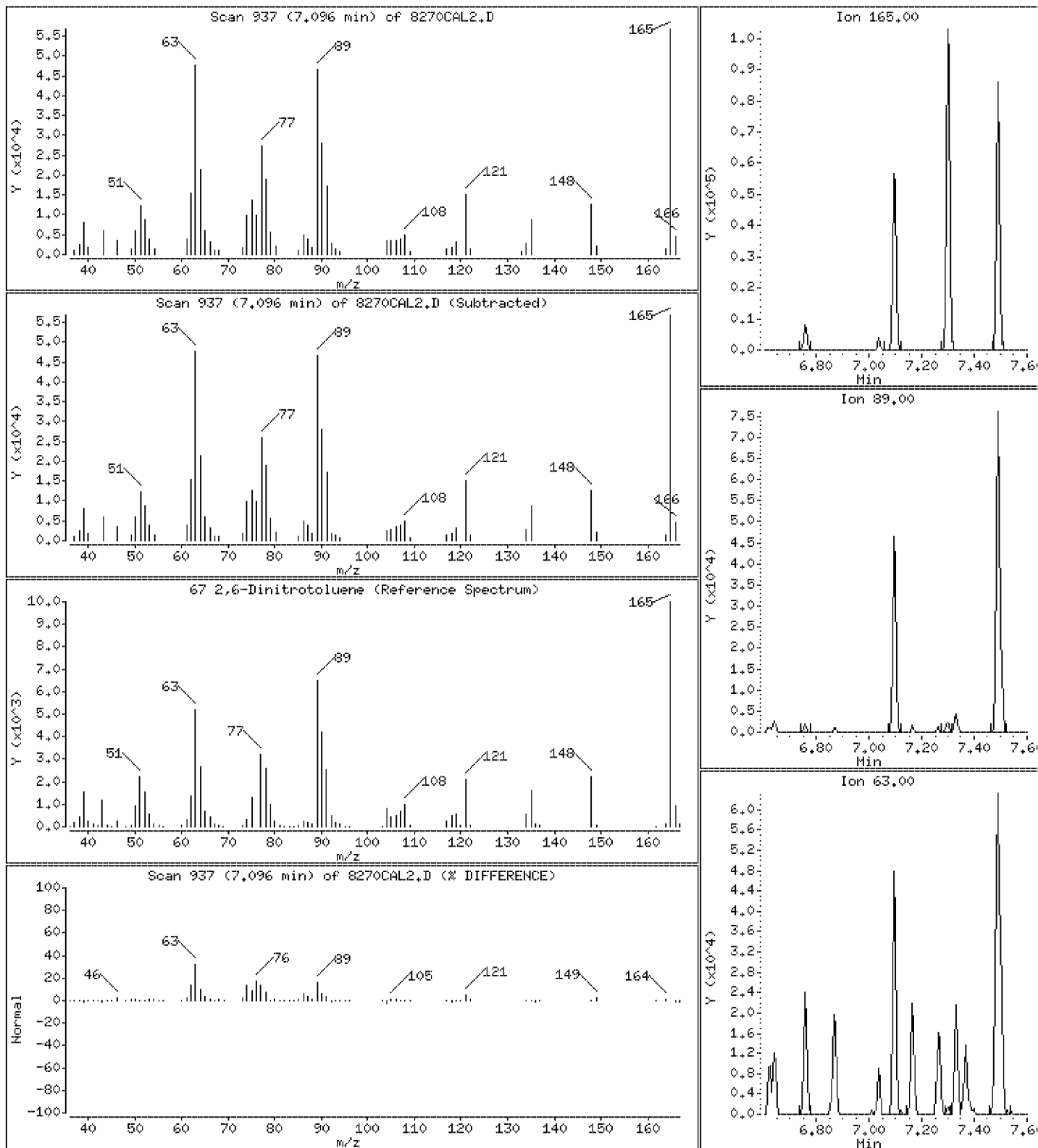
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

67 2,6-Dinitrotoluene

Concentration: 9.4 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

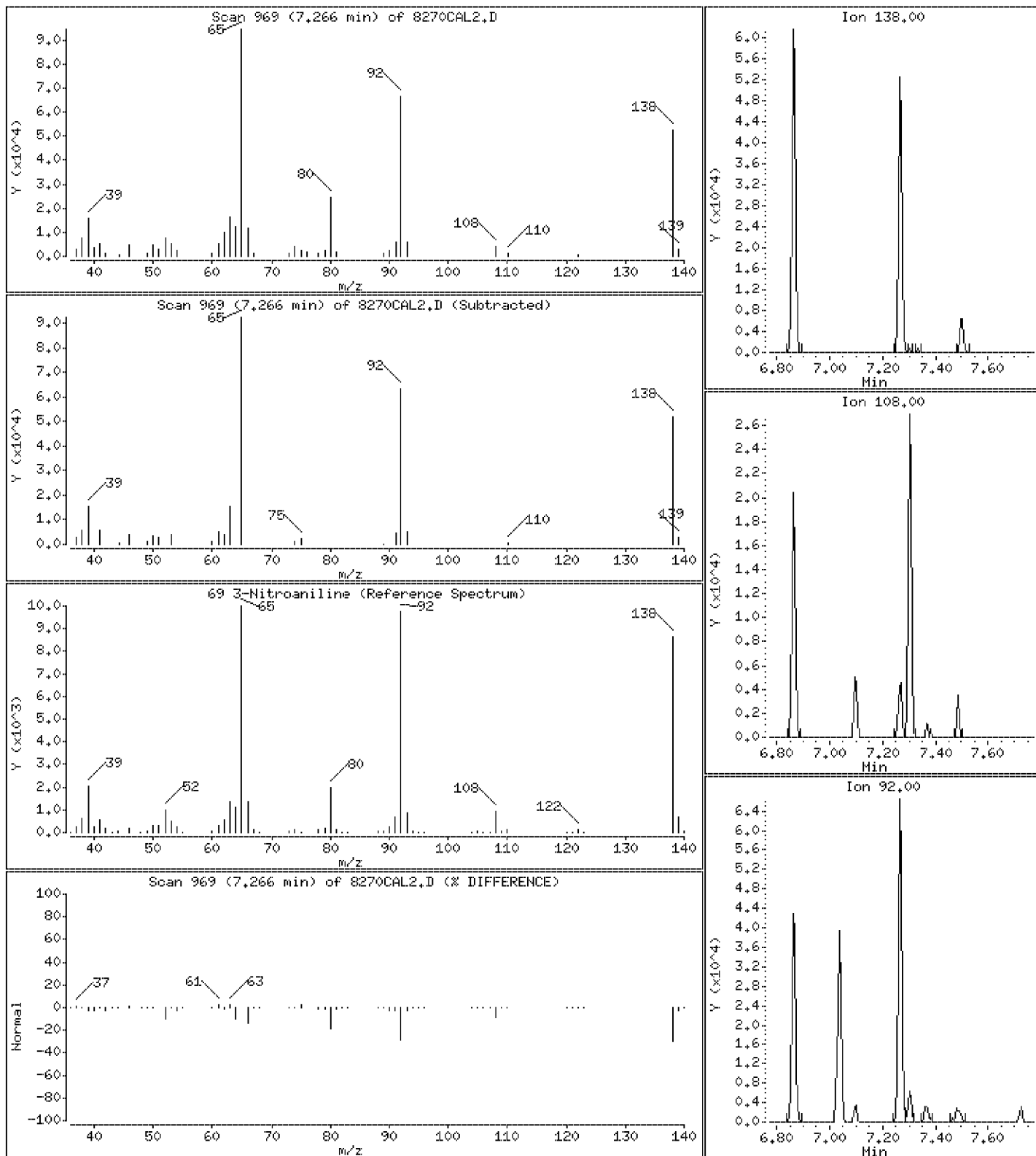
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

69 3-Nitroaniline

Concentration: 9.4 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

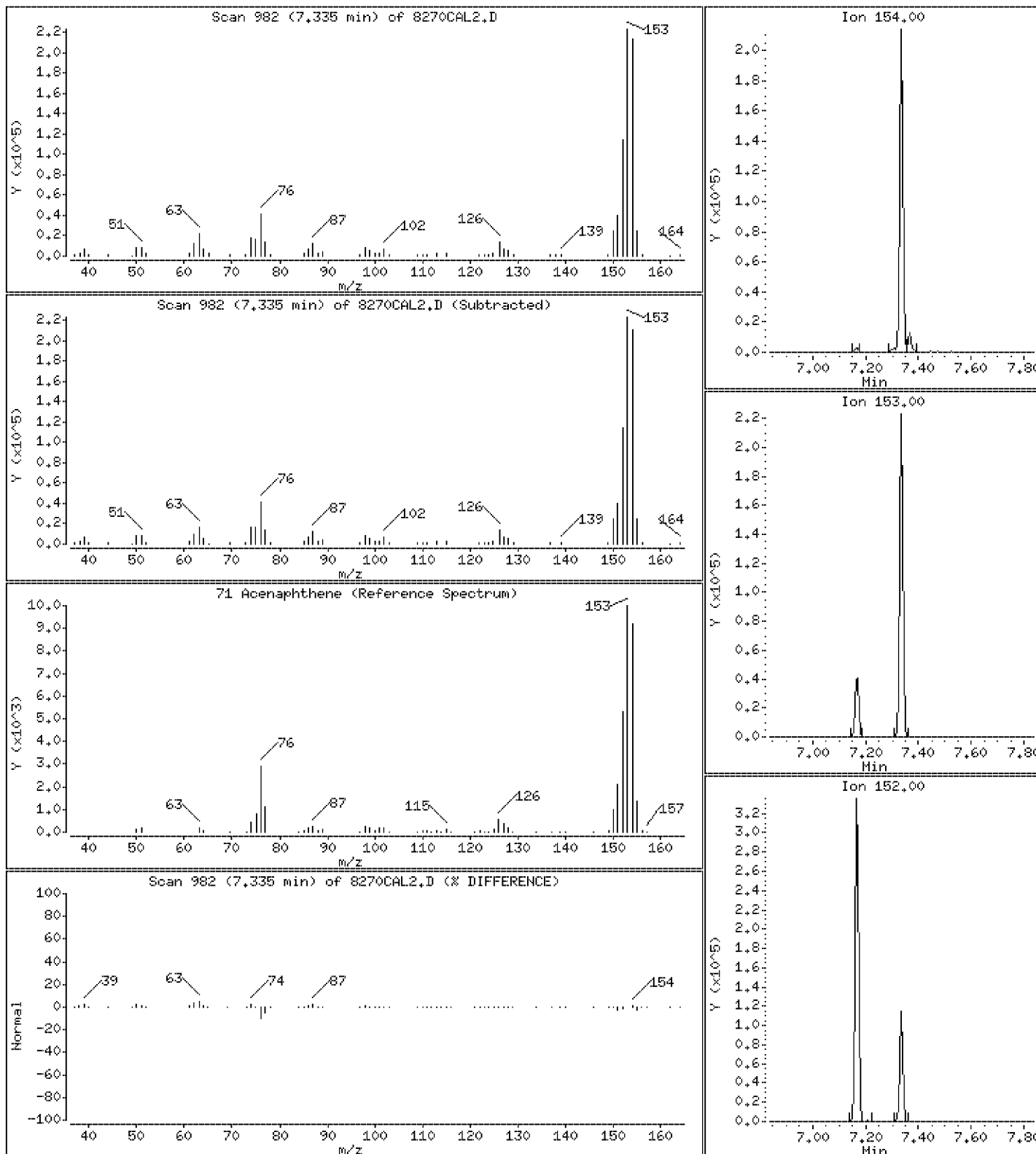
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

71 Acenaphthene

Concentration: 9.4 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

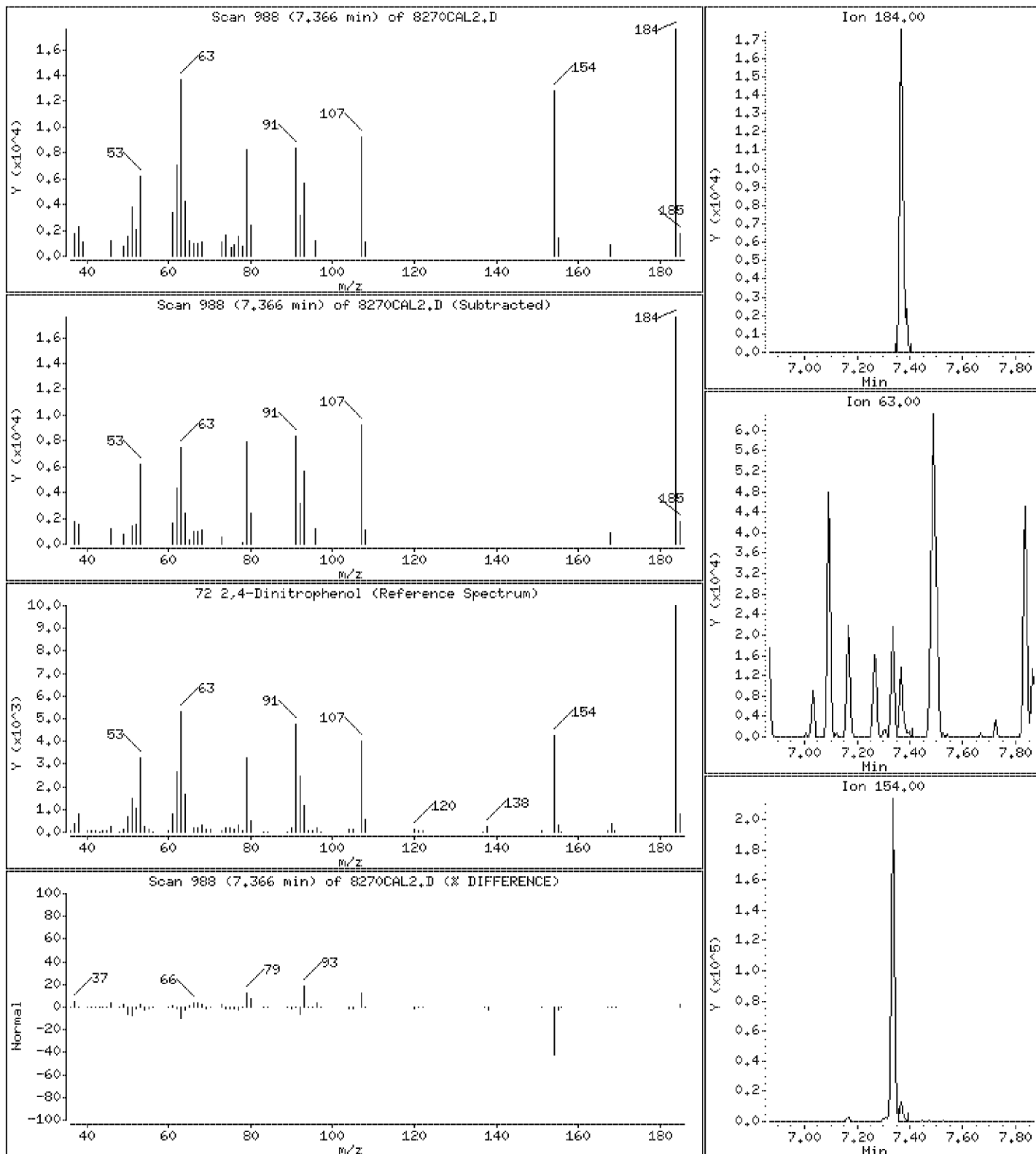
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

72 2,4-Dinitrophenol

Concentration: 11.1 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

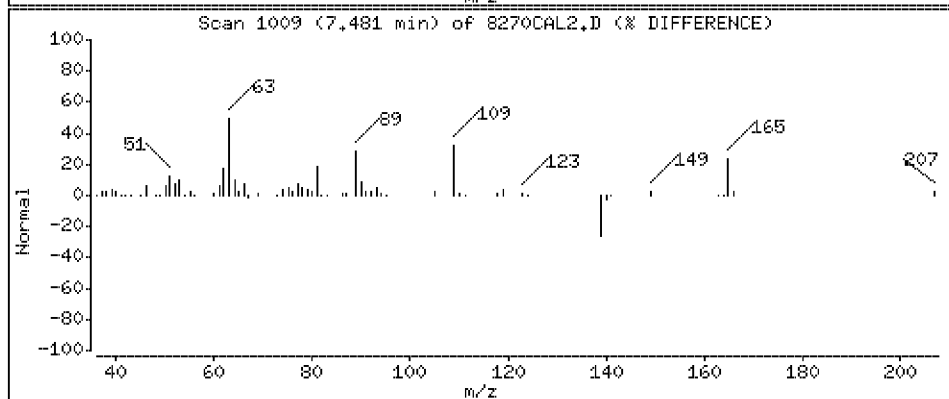
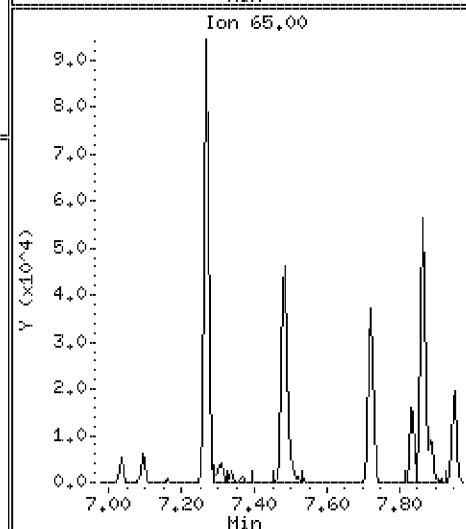
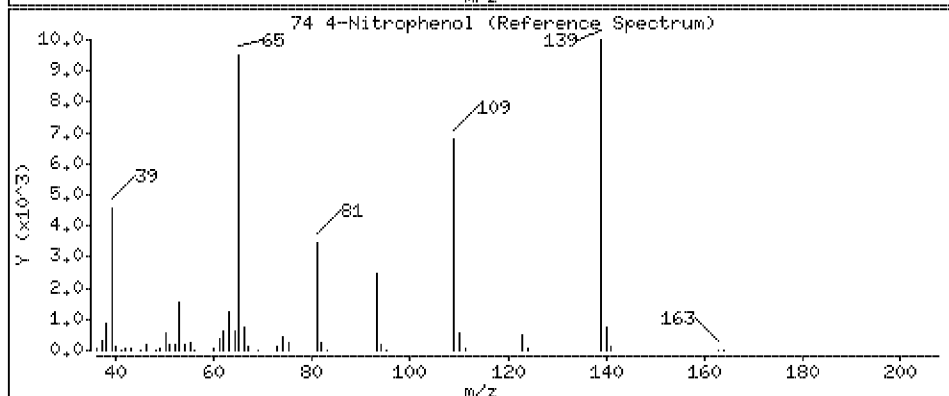
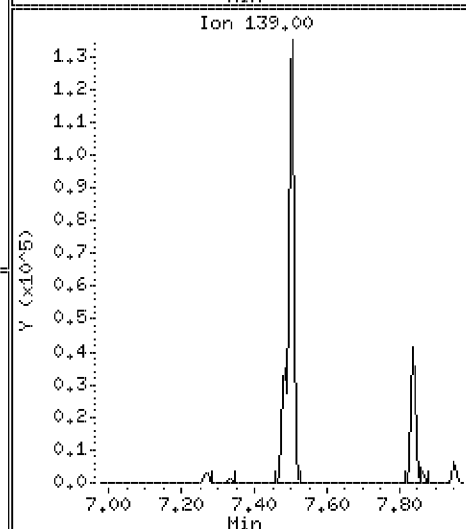
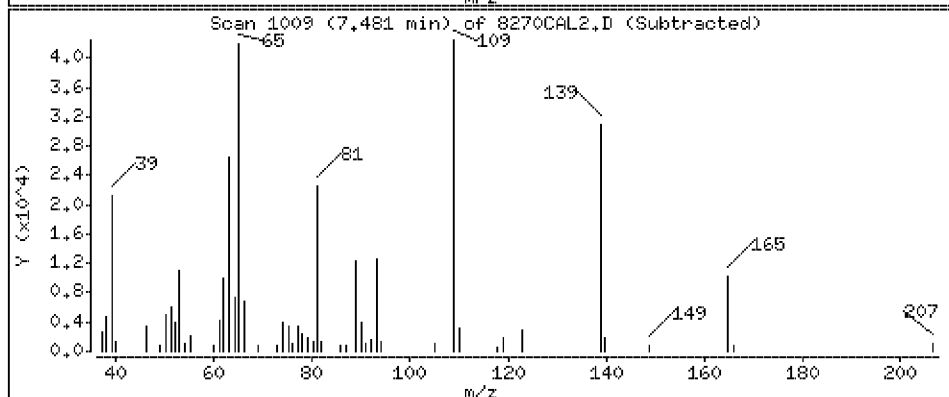
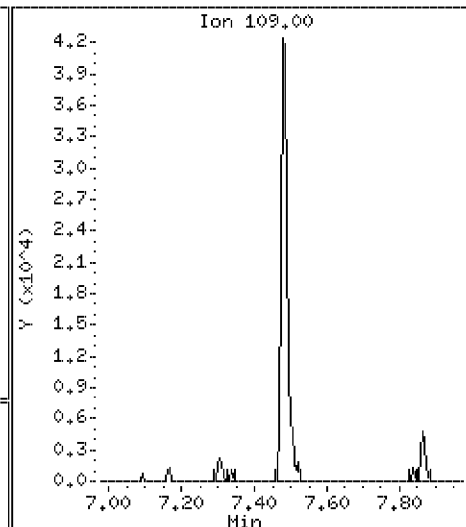
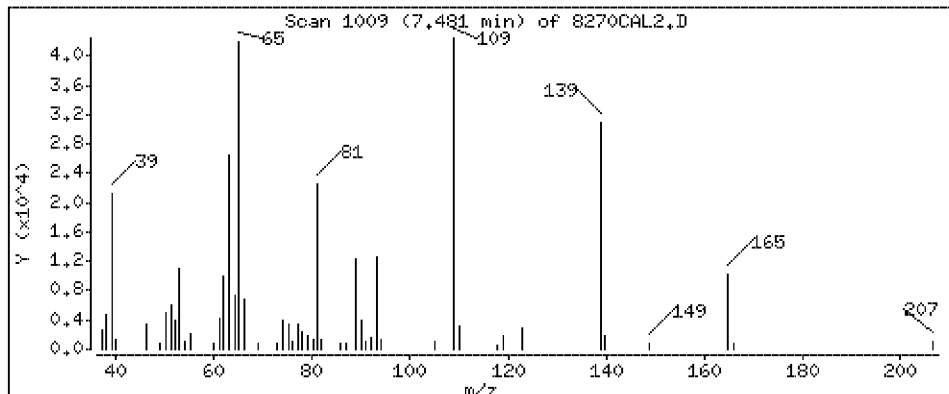
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

74 4-Nitrophenol

Concentration: 9.6 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

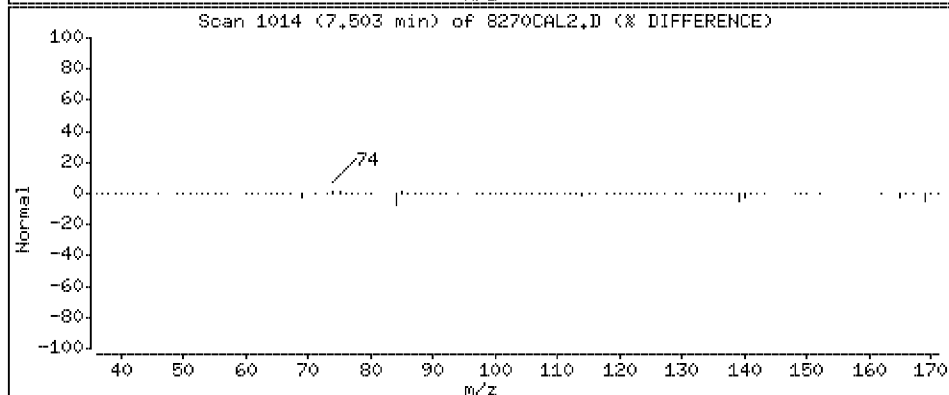
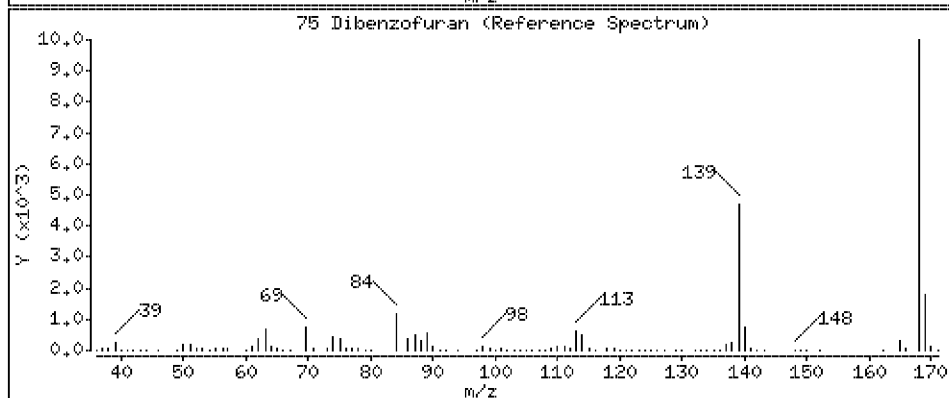
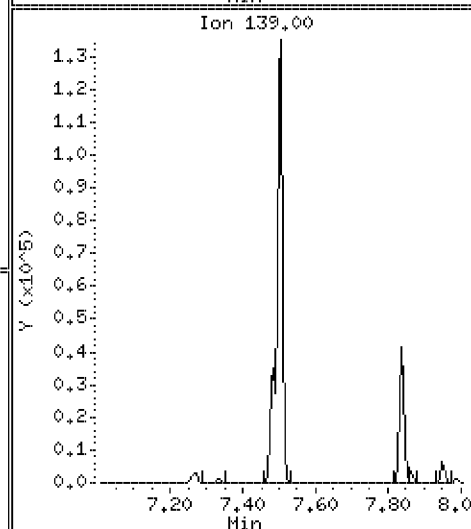
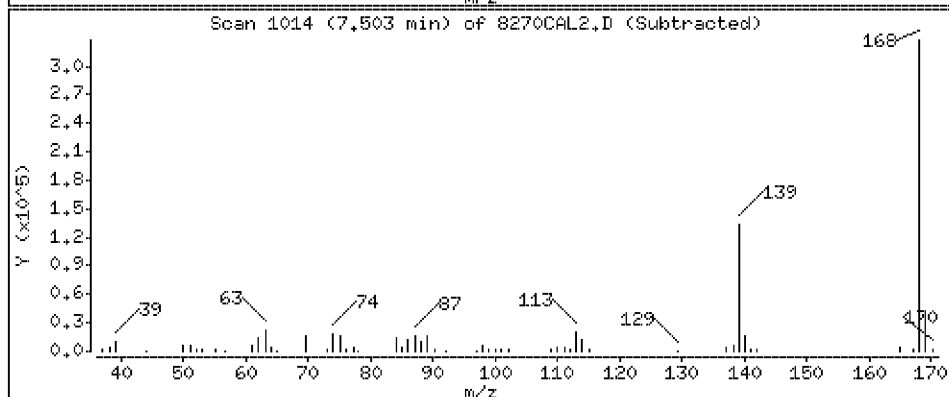
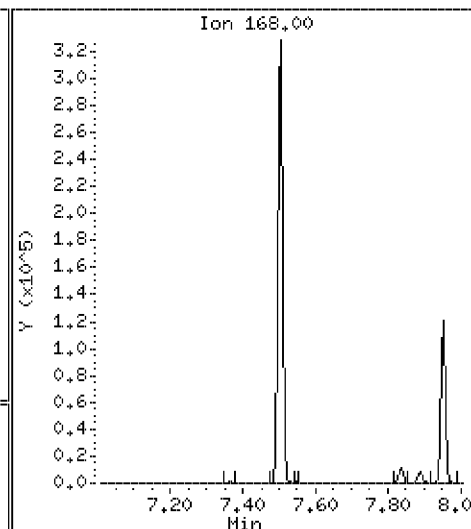
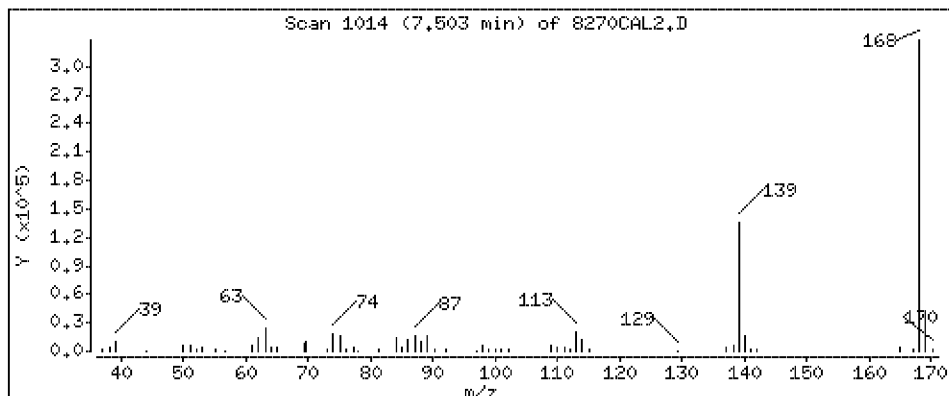
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

75 Dibenzofuran

Concentration: 9.6 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

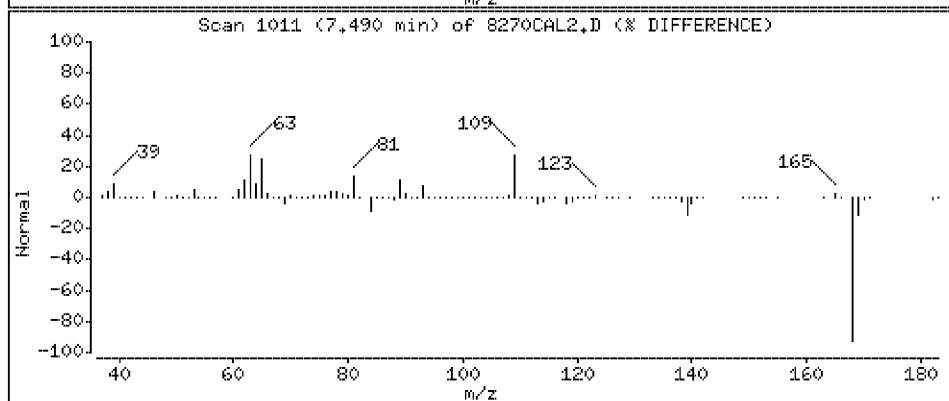
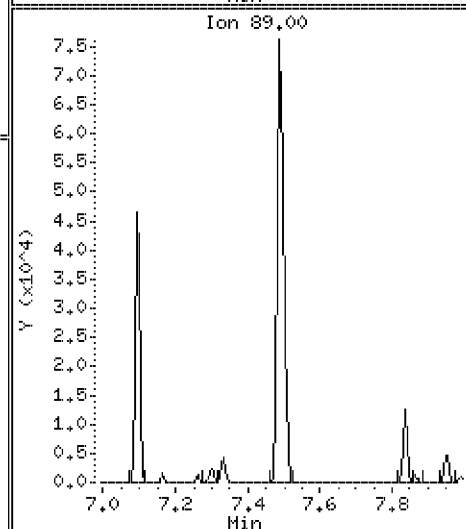
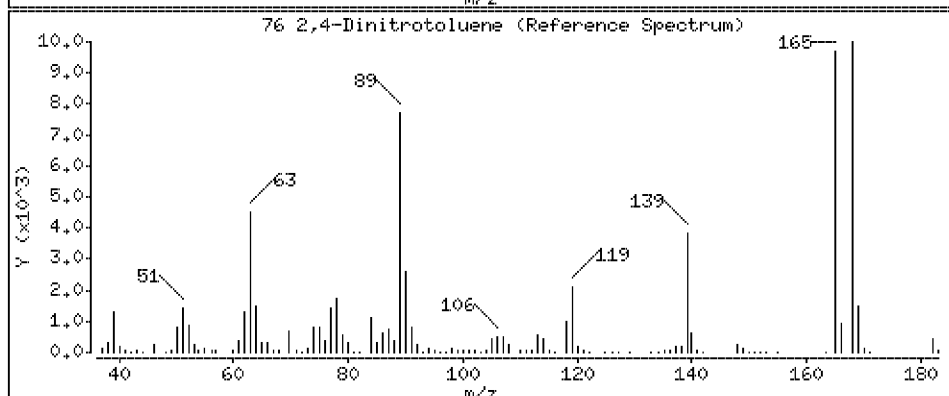
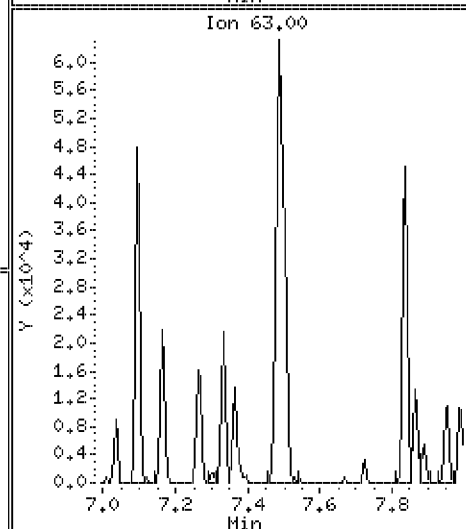
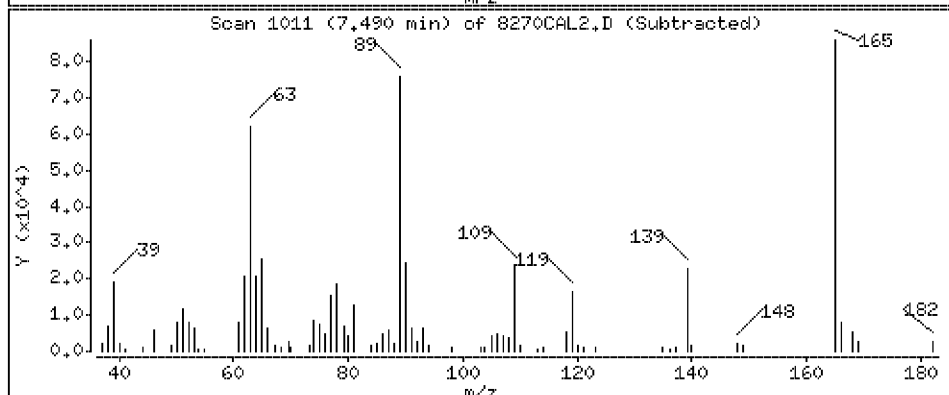
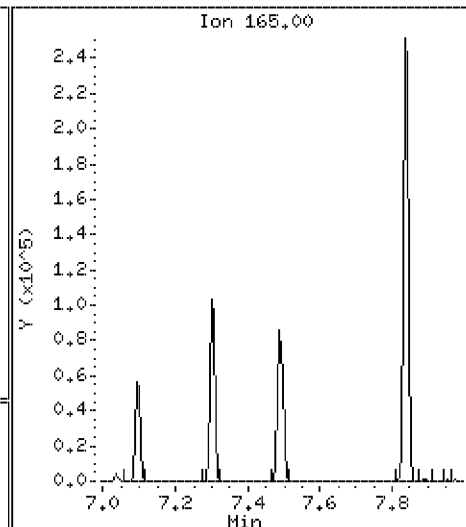
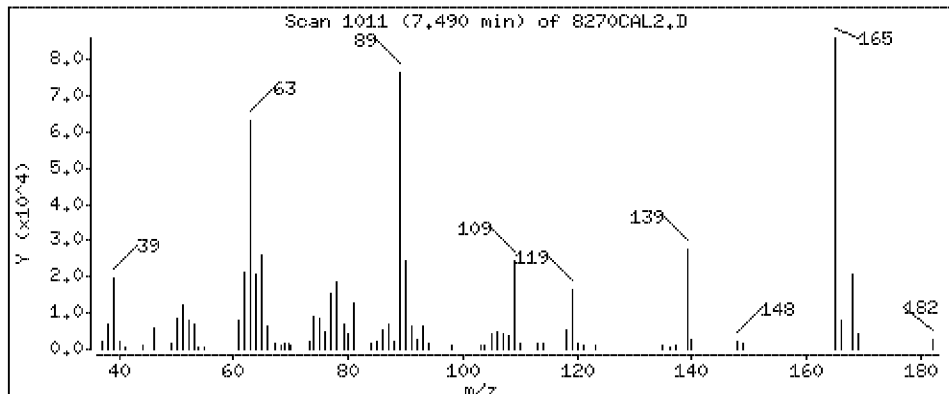
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

76 2,4-Dinitrotoluene

Concentration: 9.3 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

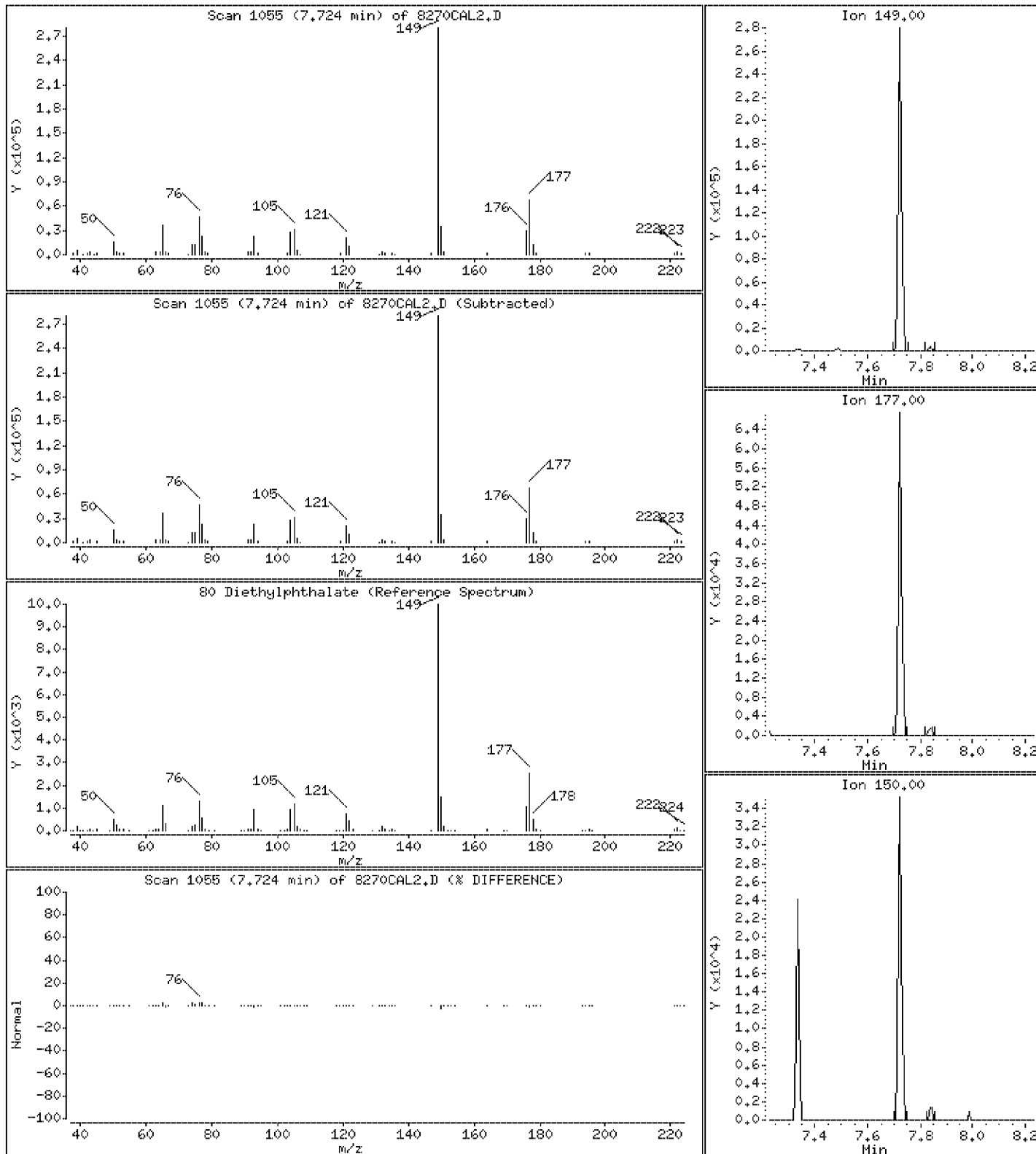
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

80 Diethylphthalate

Concentration: 9.8 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

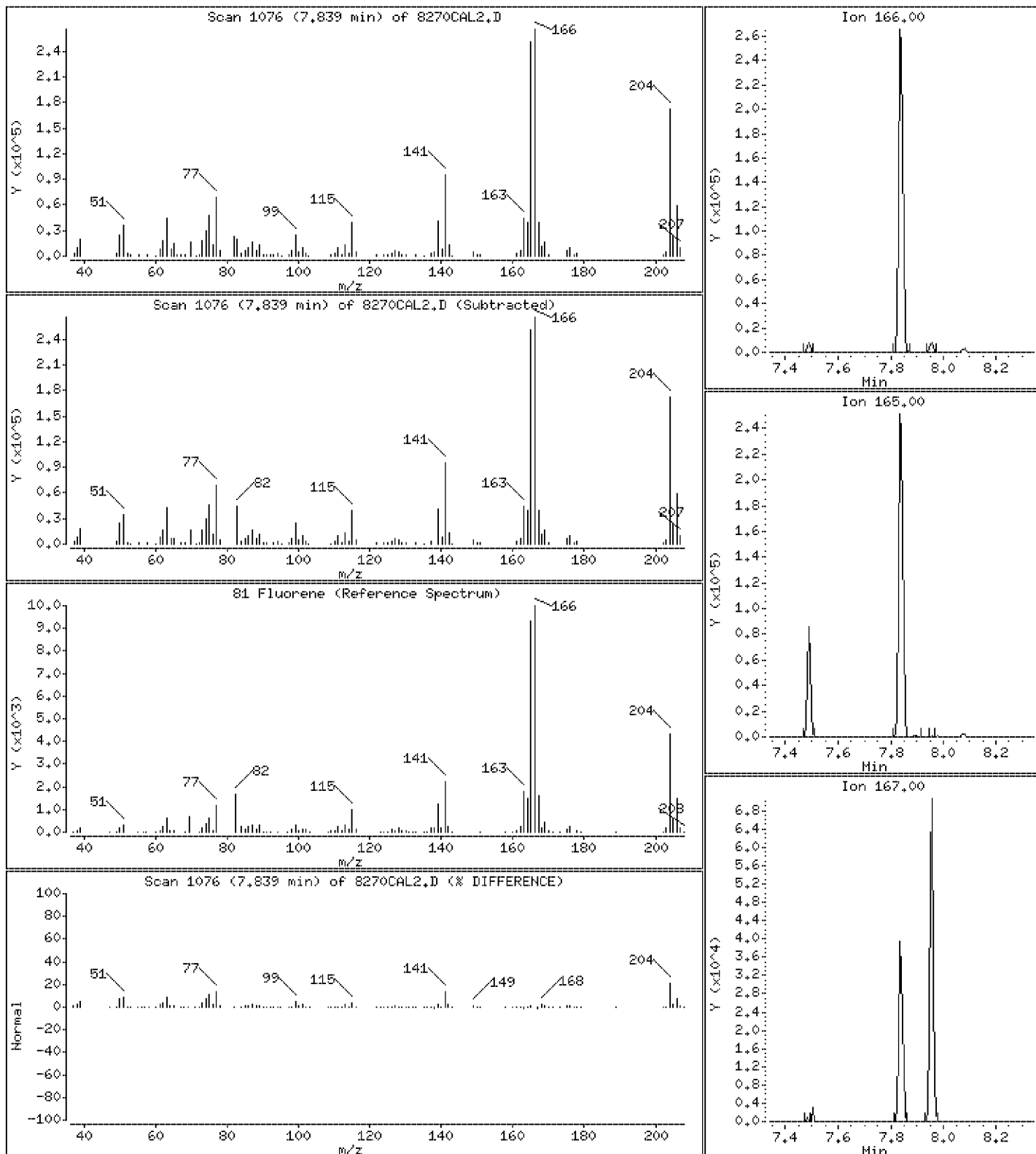
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

81 Fluorene

Concentration: 9.1 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

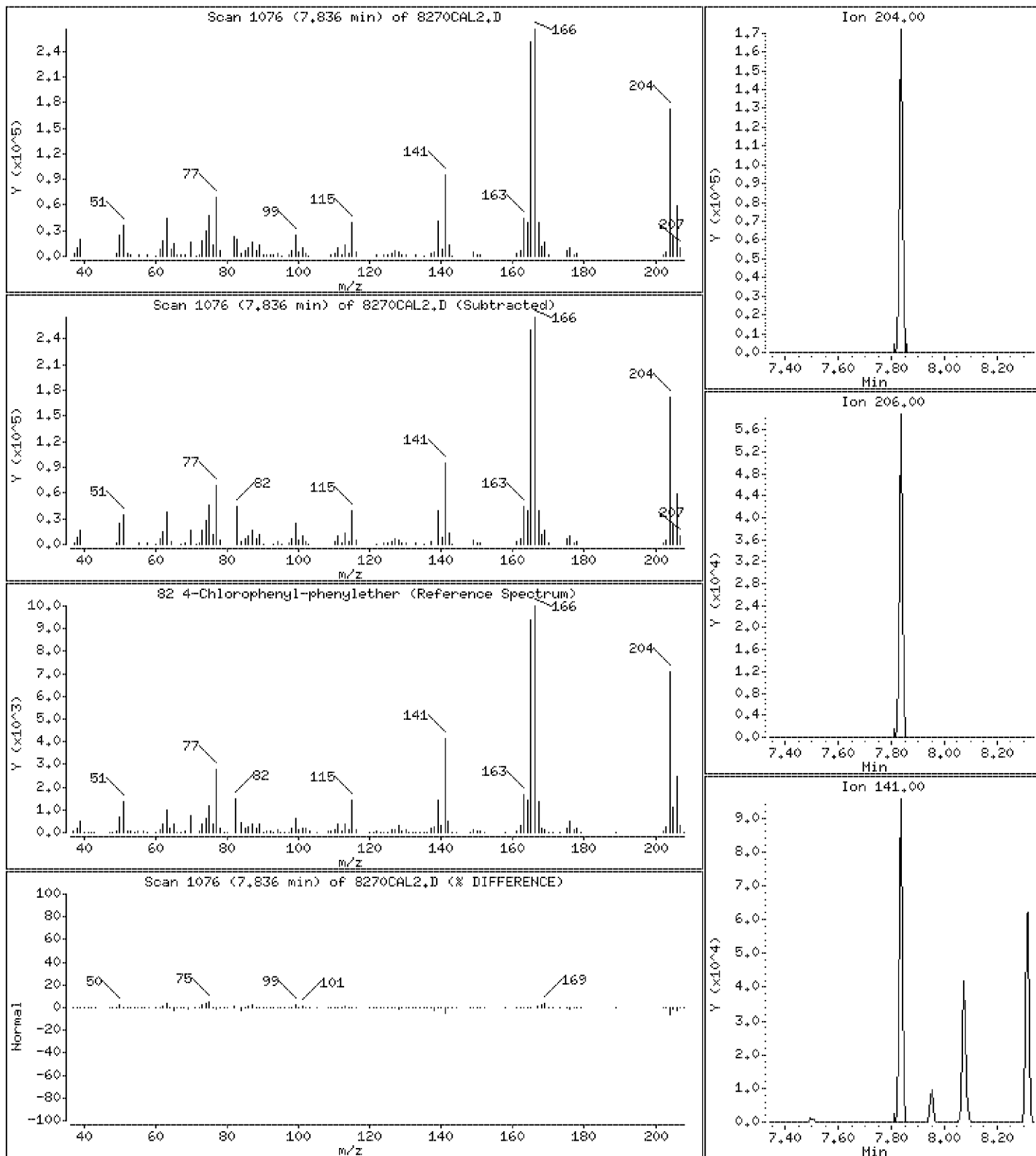
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

82 4-Chlorophenyl-phenylether

Concentration: 8.8 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

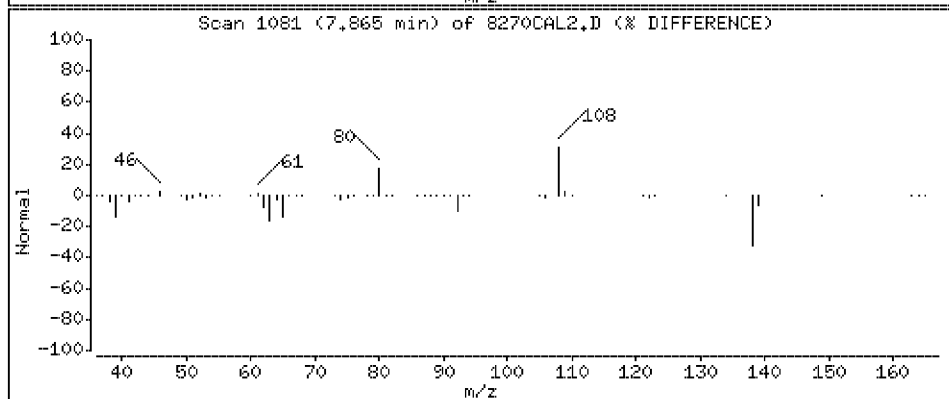
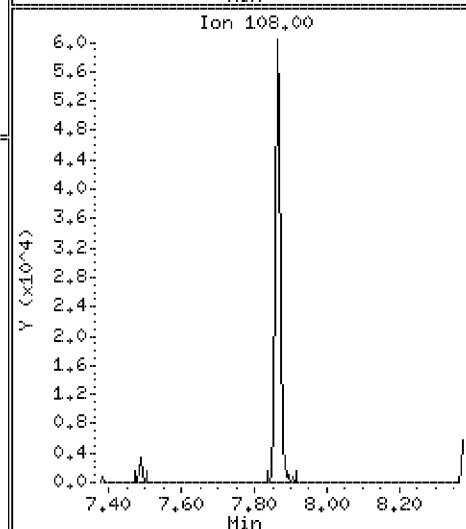
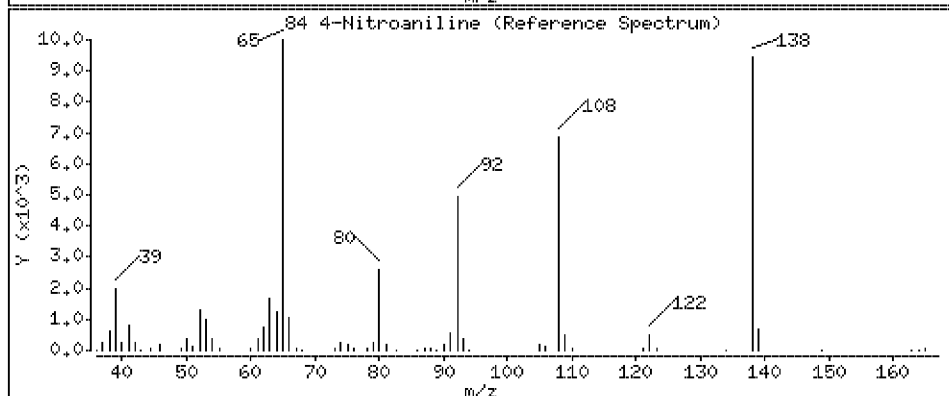
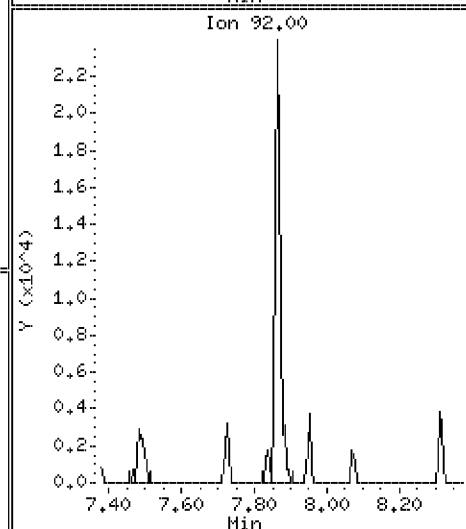
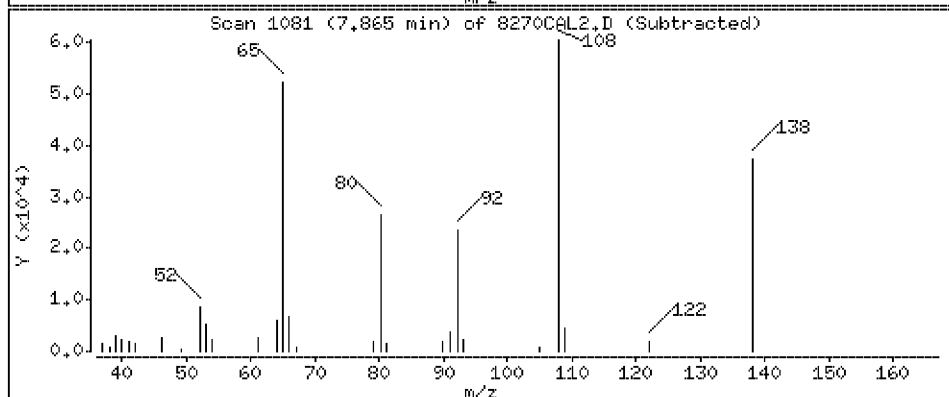
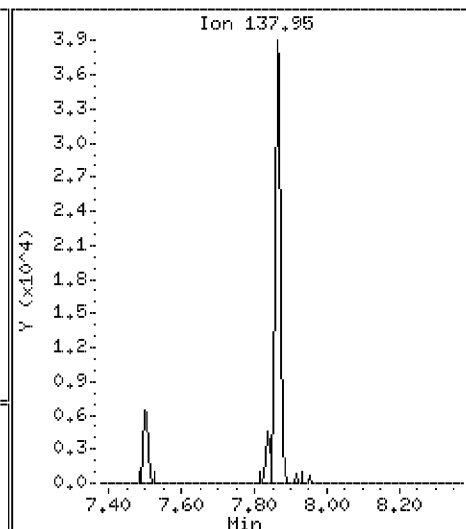
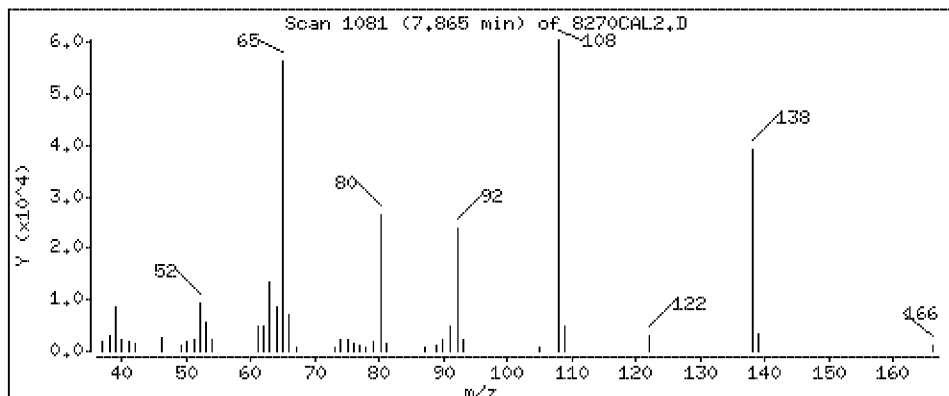
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

84 4-Nitroaniline

Concentration: 9.3 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

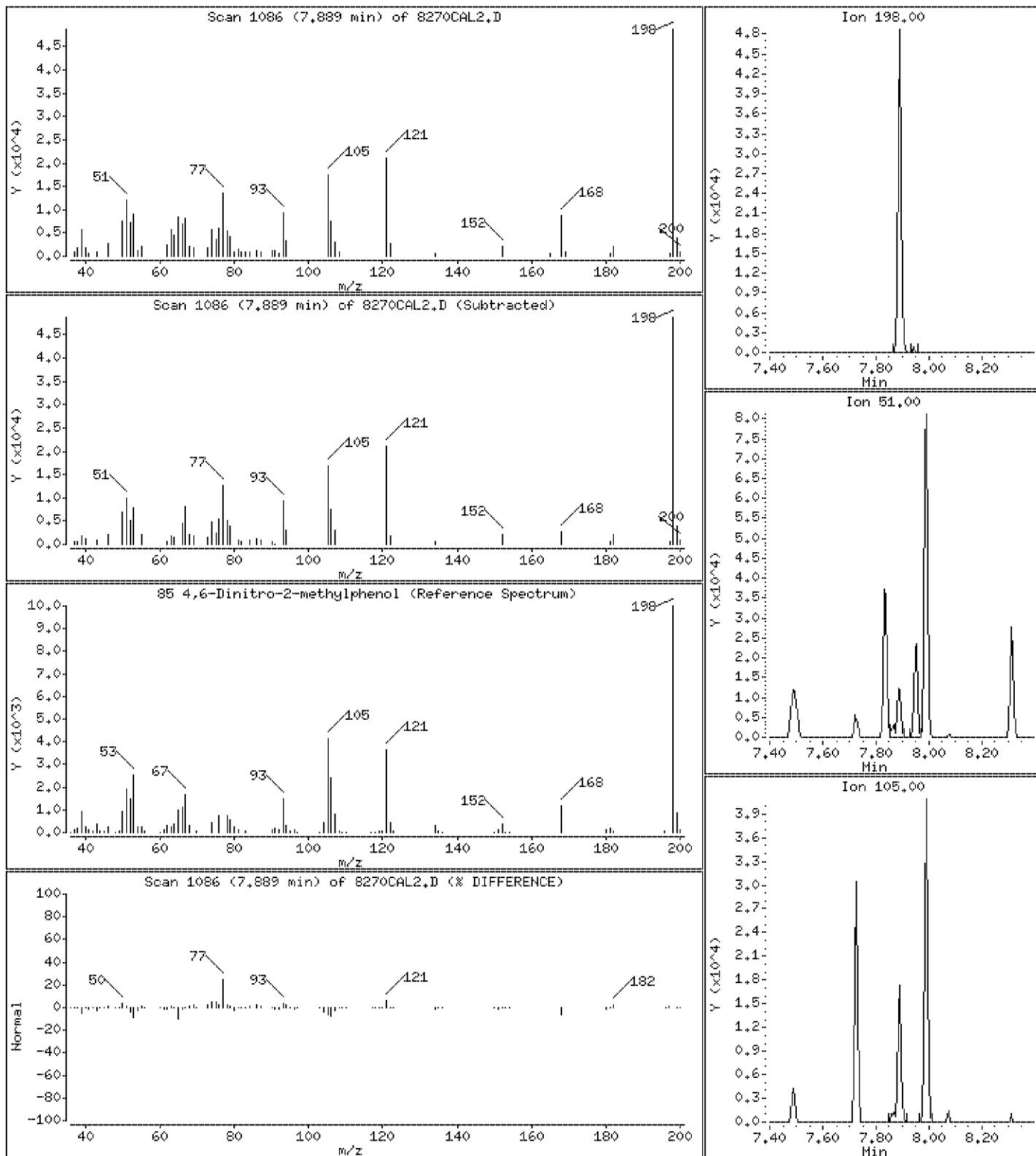
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

85 4,6-Dinitro-2-methylphenol

Concentration: 10.4 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

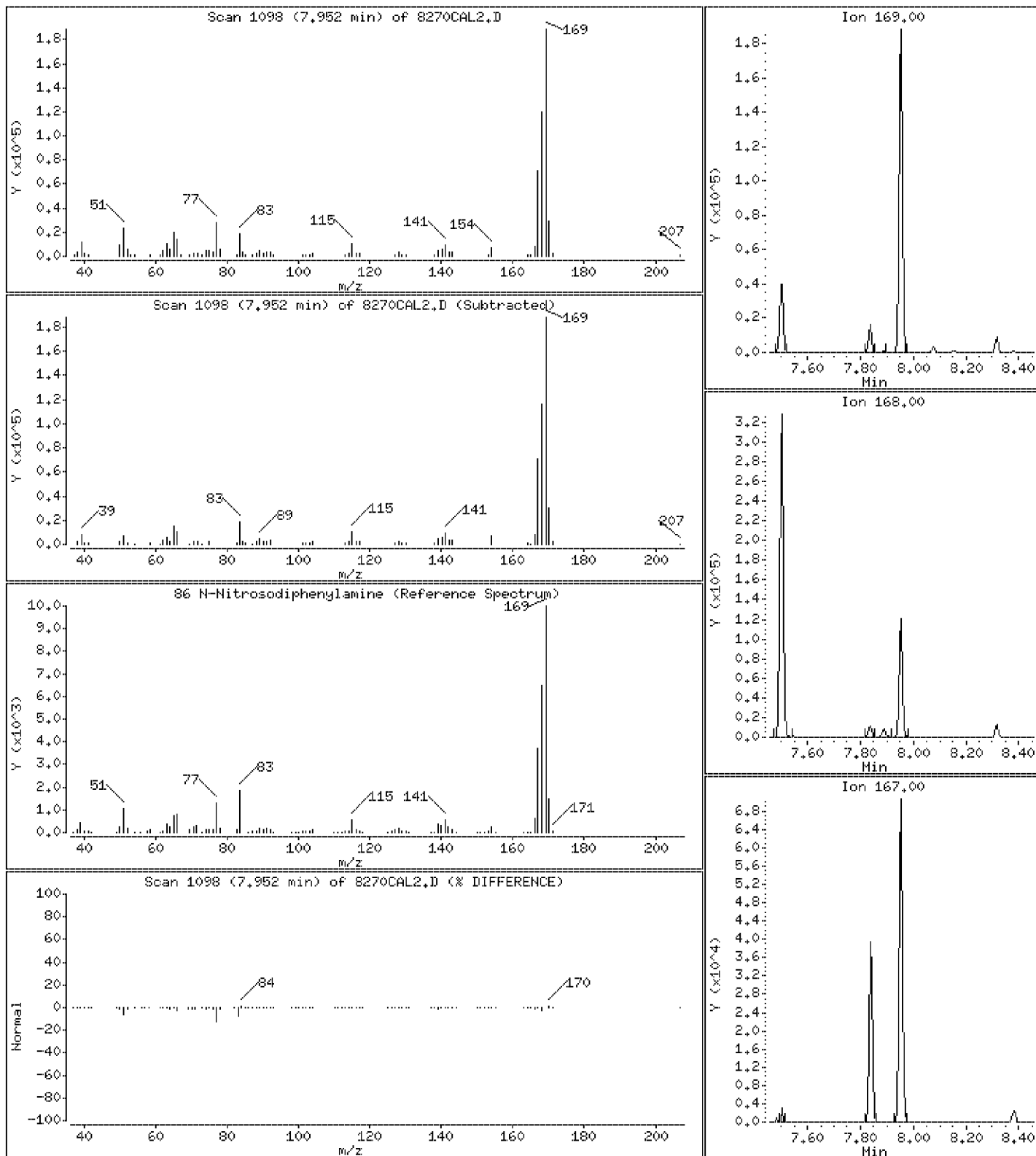
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

86 N-Nitrosodiphenylamine

Concentration: 9.7 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

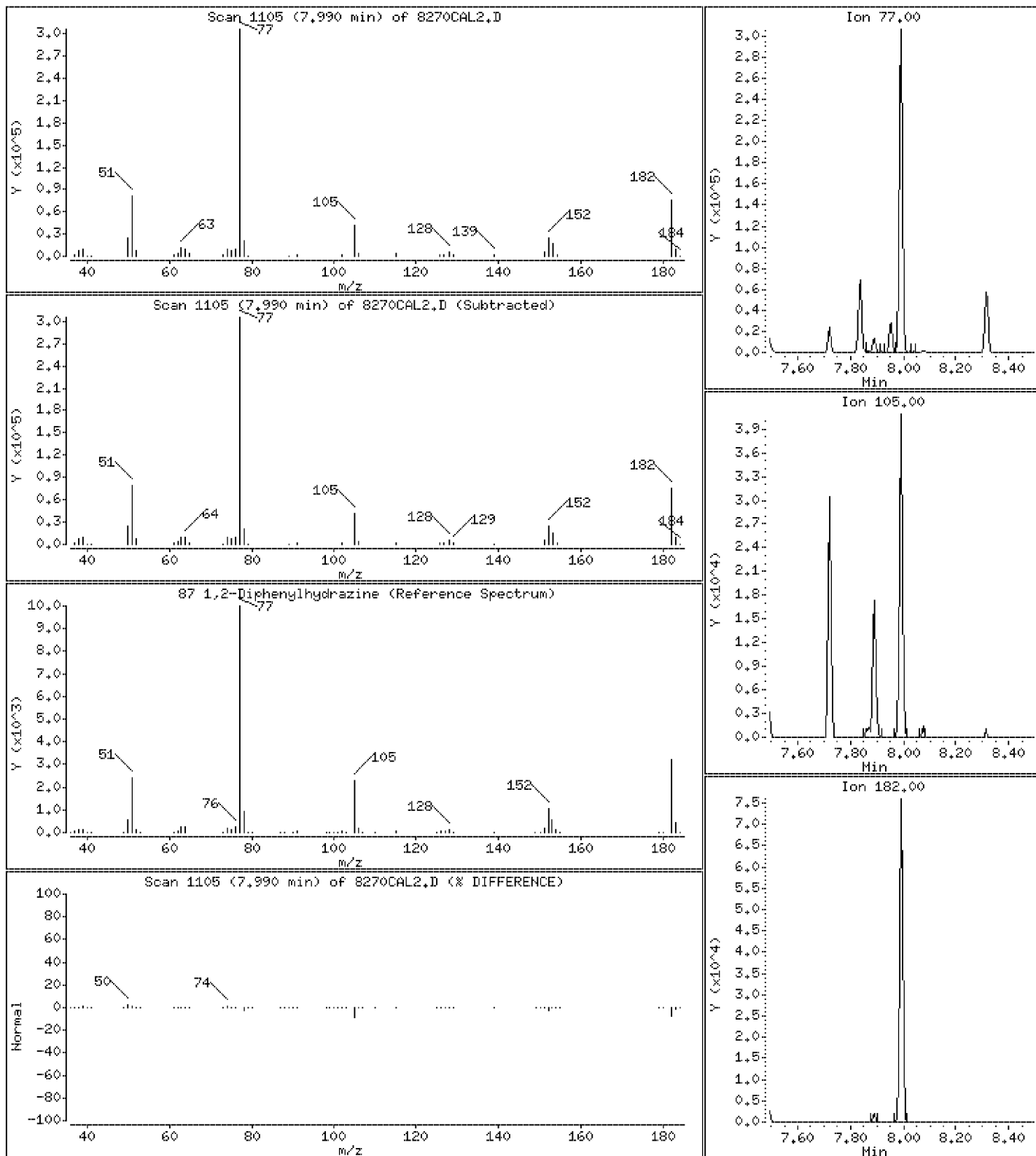
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

87 1,2-Diphenylhydrazine

Concentration: 10.1 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

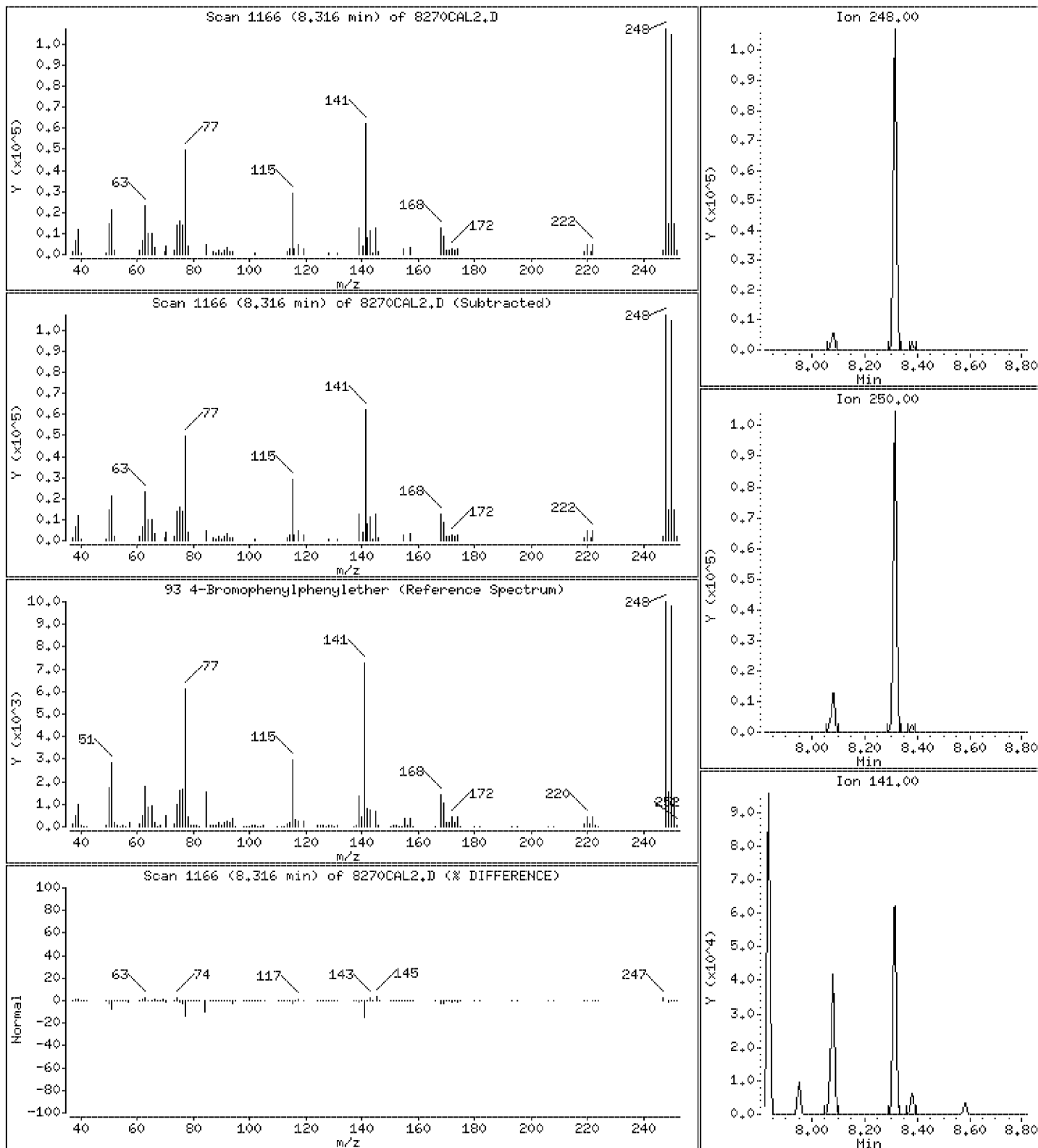
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

93 4-Bromophenylphenylether

Concentration: 9.3 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

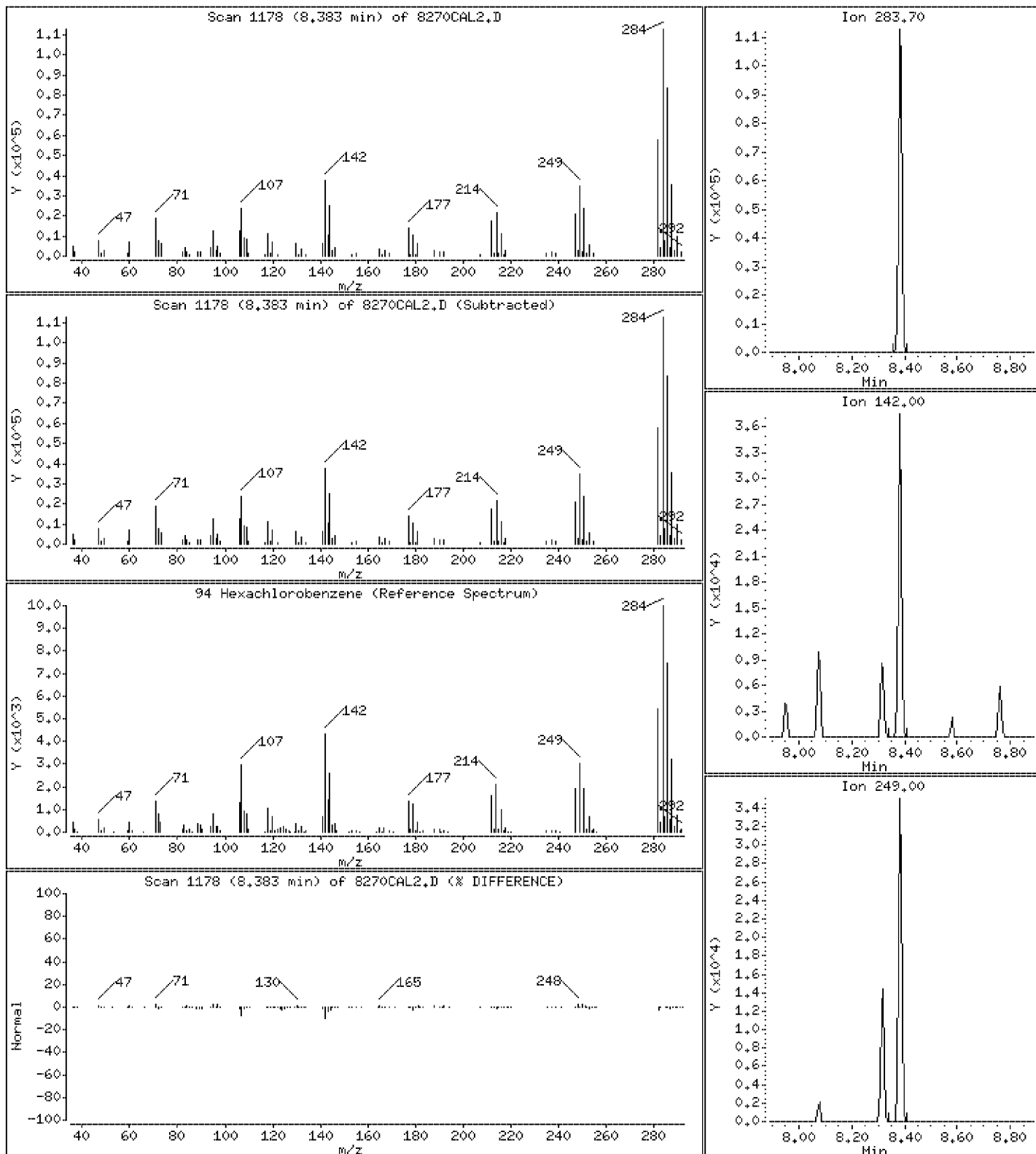
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

94 Hexachlorobenzene

Concentration: 9.0 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

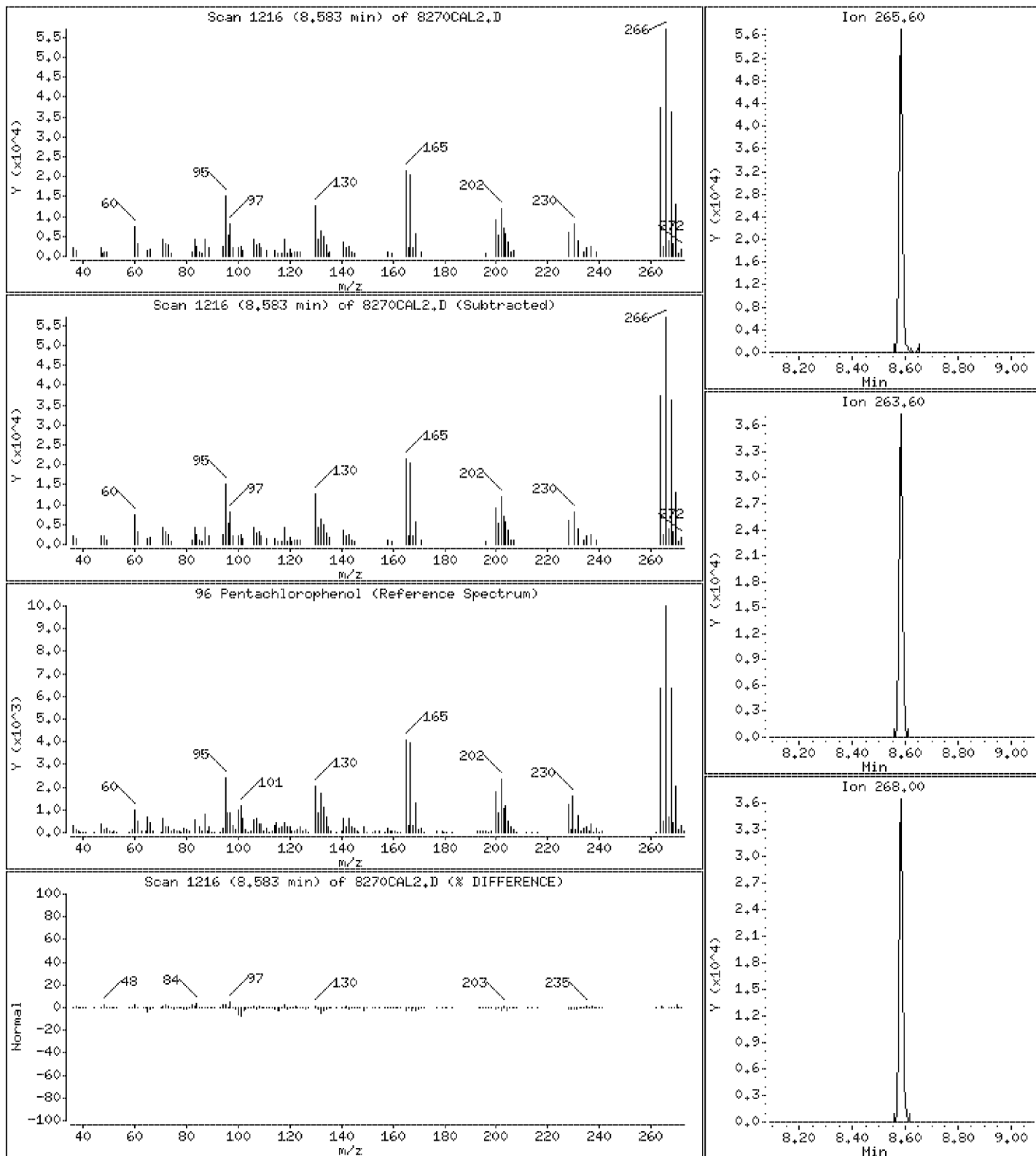
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

96 Pentachlorophenol

Concentration: 7.8 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

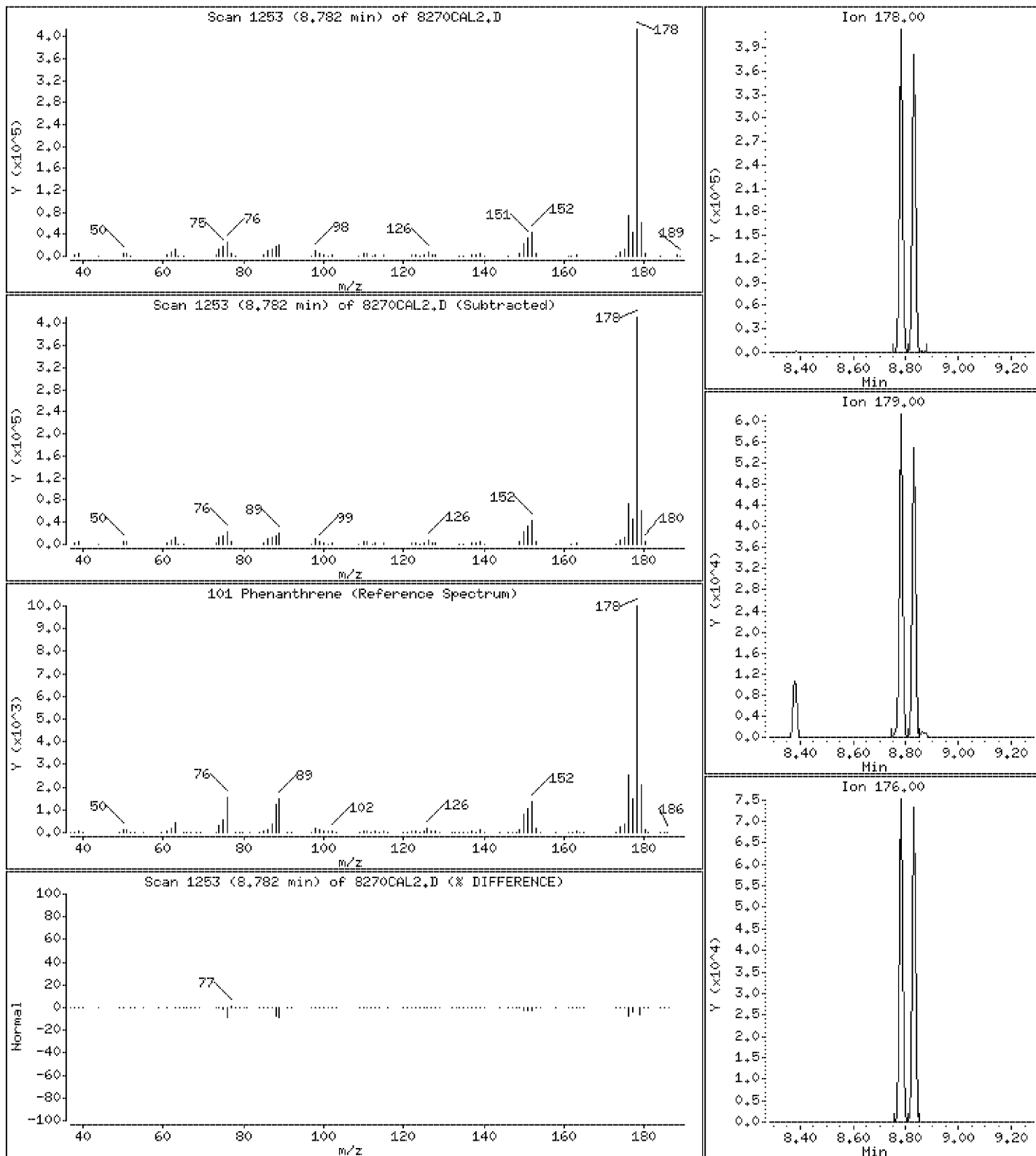
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

101 Phenanthrene

Concentration: 9.8 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

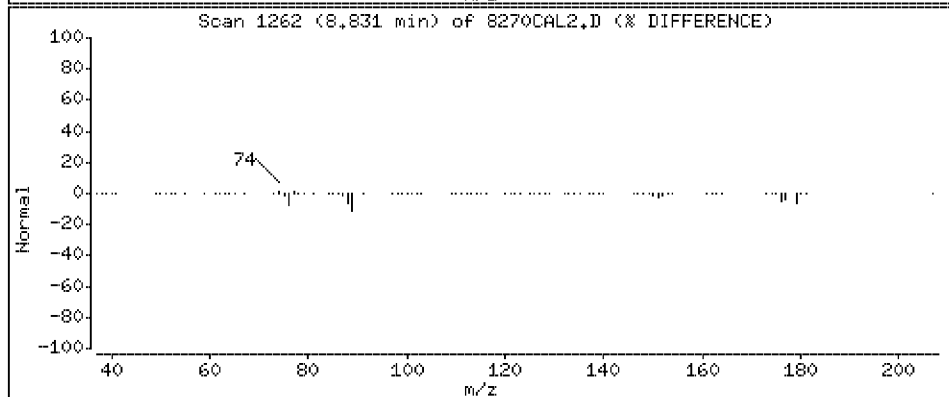
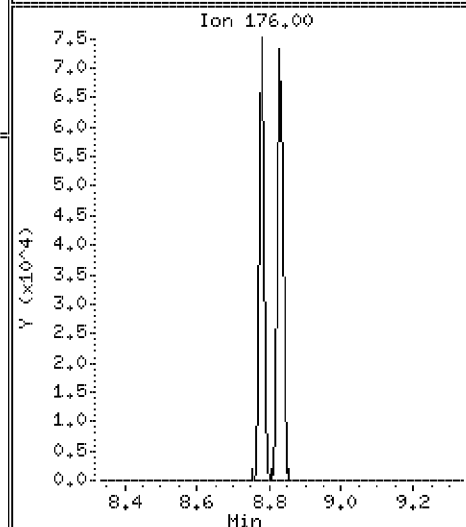
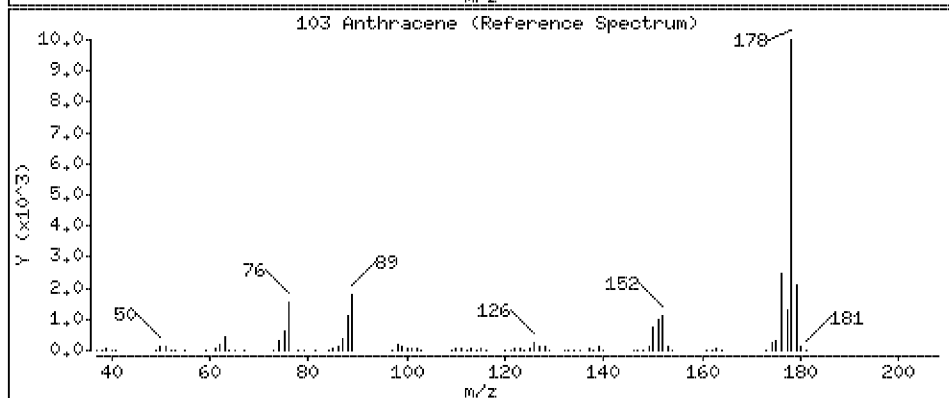
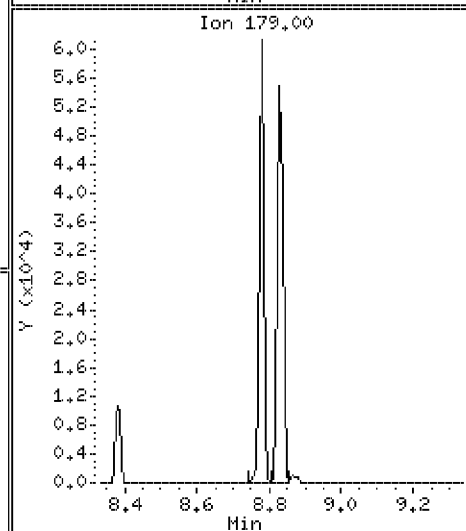
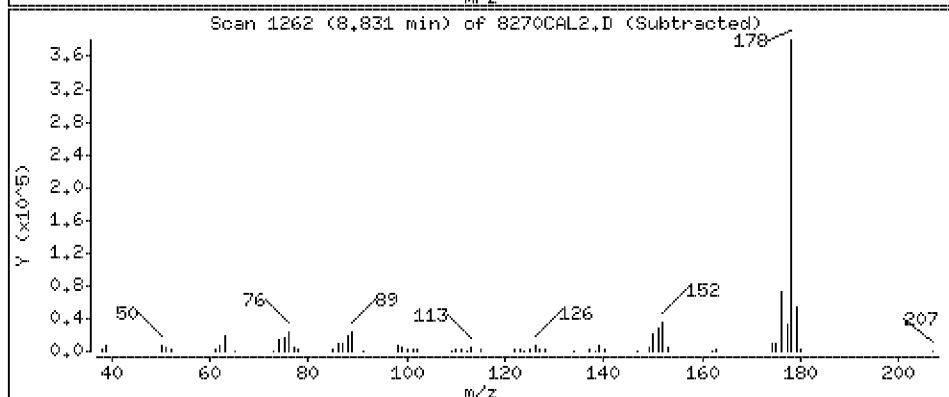
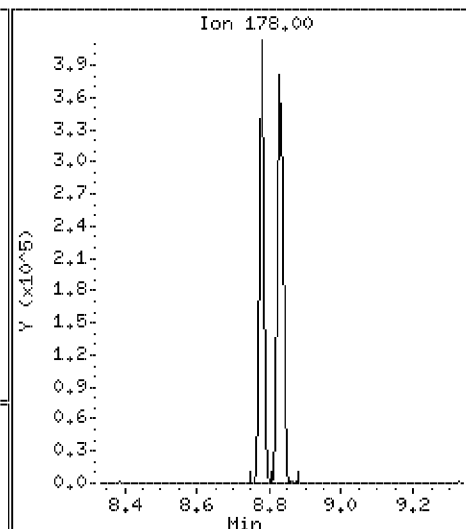
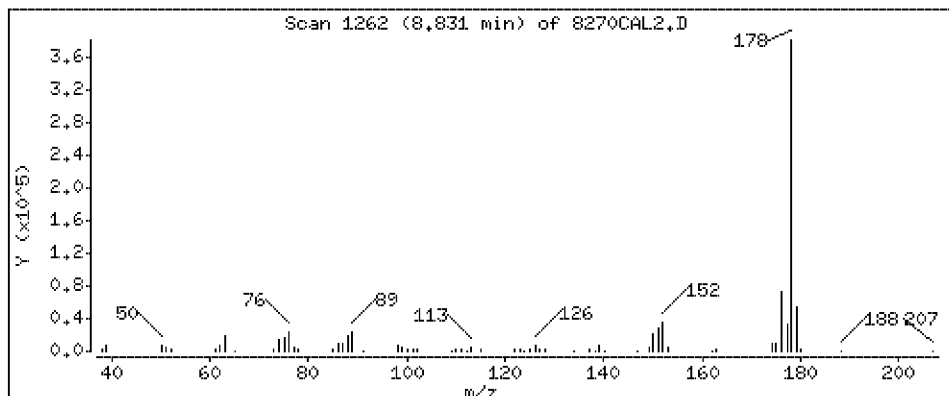
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

103 Anthracene

Concentration: 9.7 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

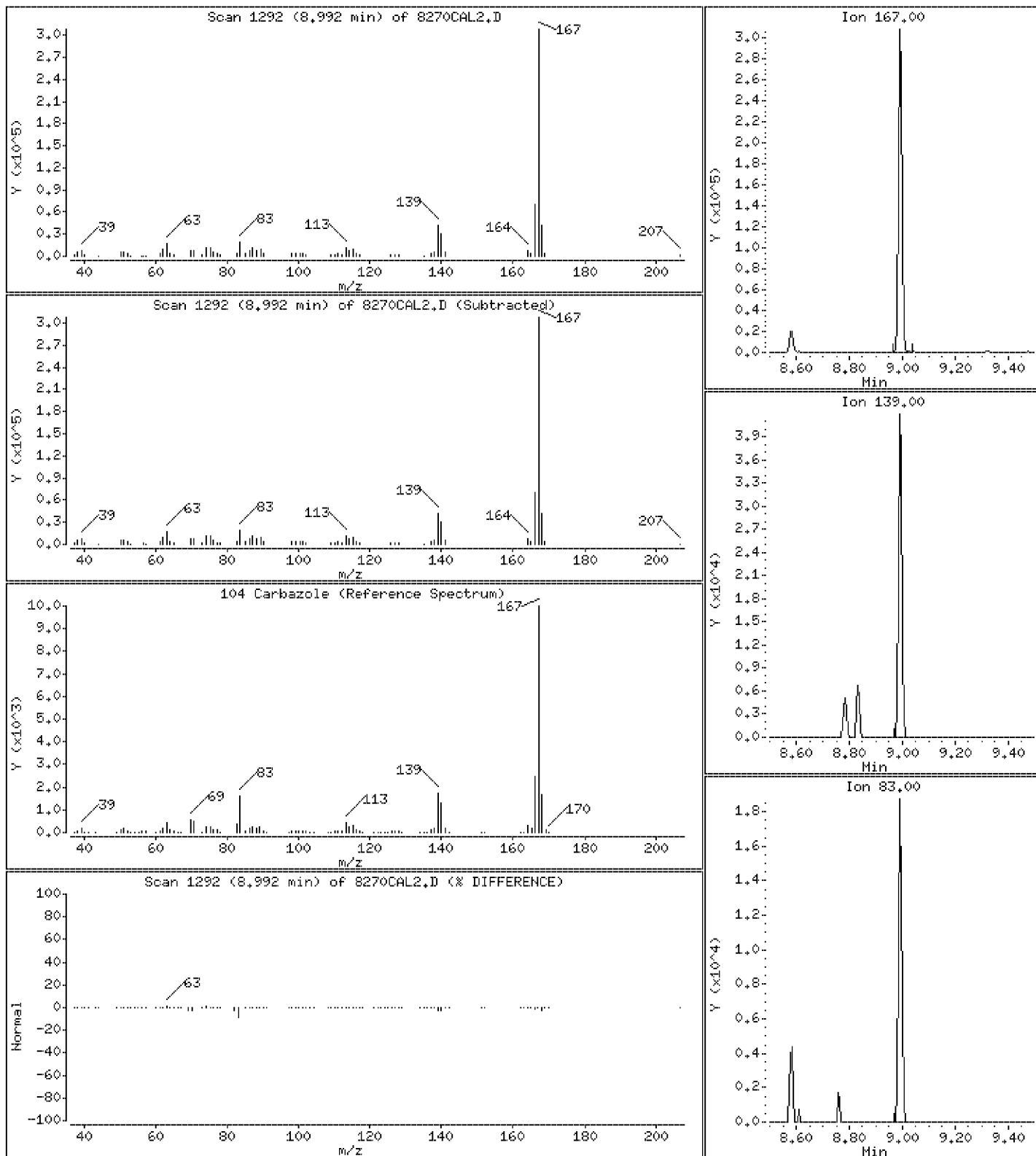
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

104 Carbazole

Concentration: 10 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

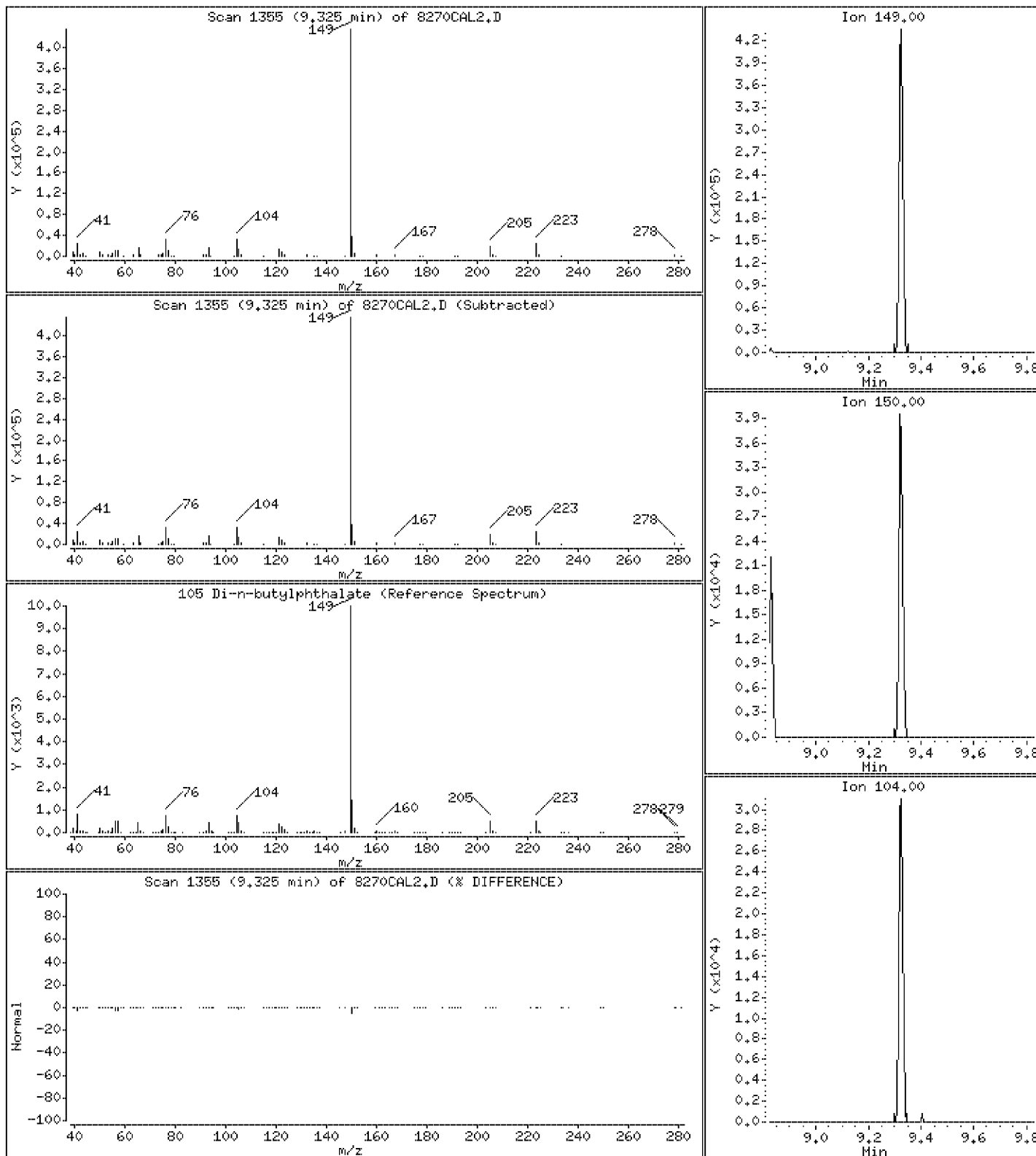
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

105 Di-n-butylphthalate

Concentration: 9.7 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

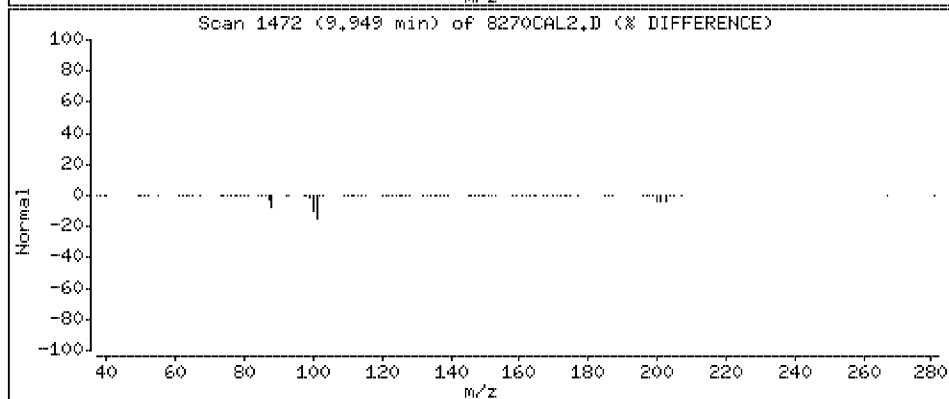
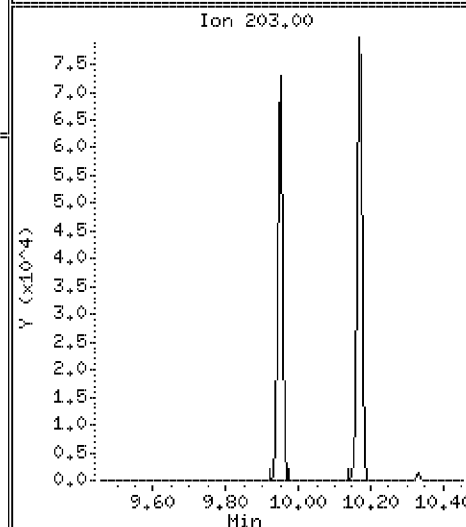
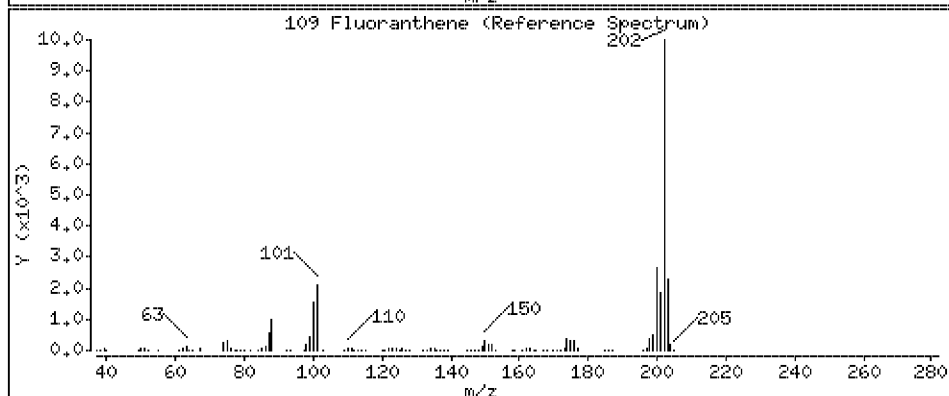
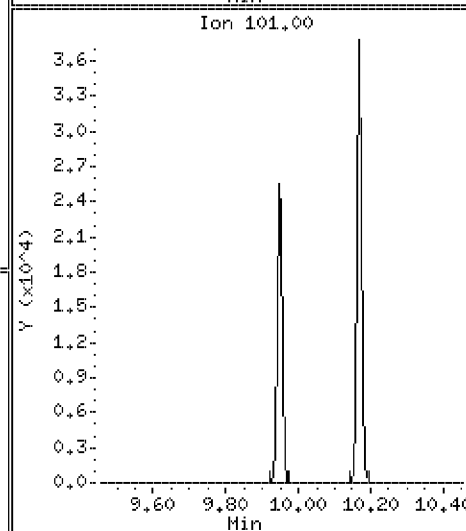
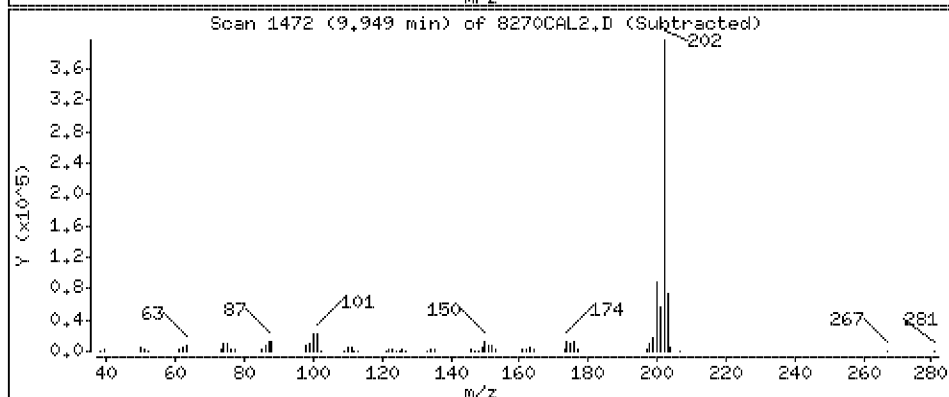
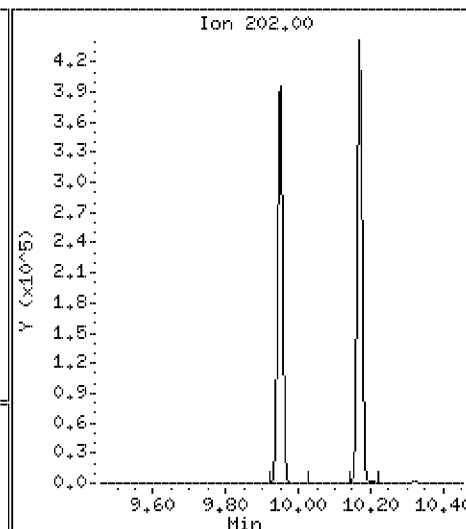
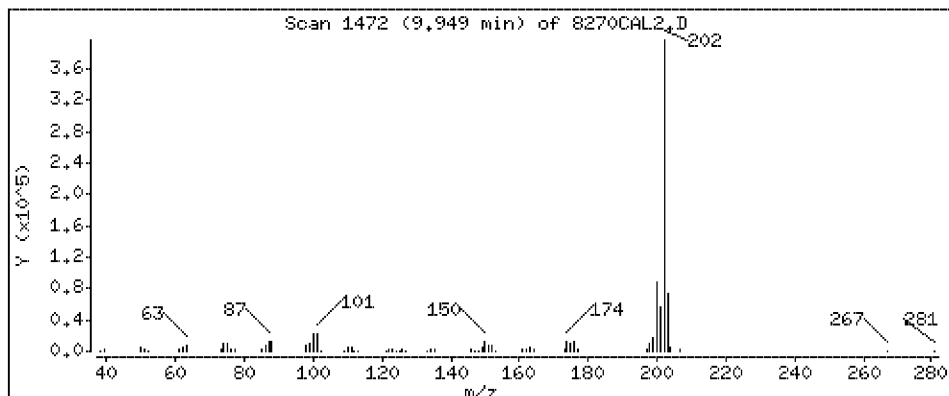
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

109 Fluoranthene

Concentration: 9.8 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

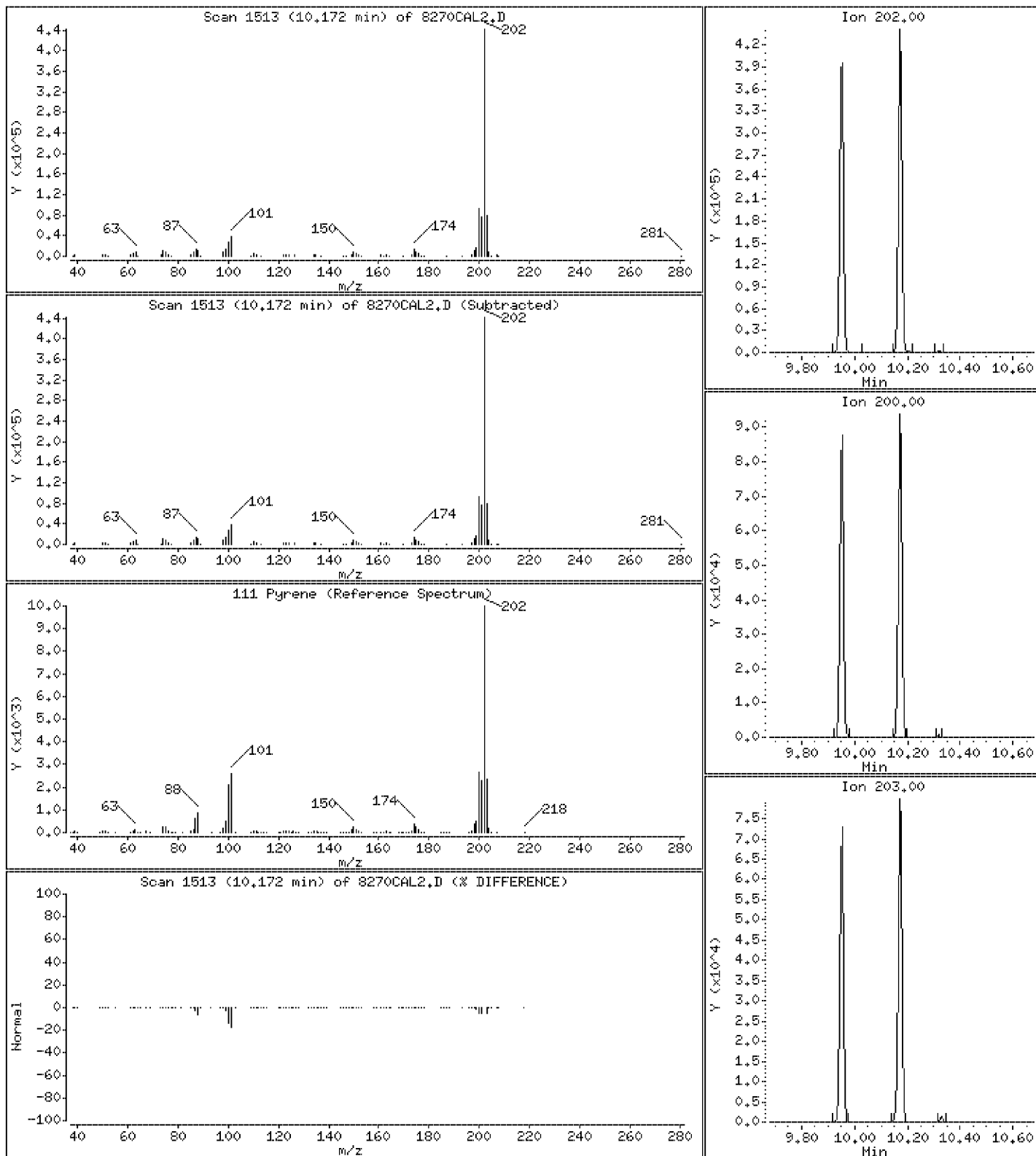
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

111 Pyrene

Concentration: 11.1 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

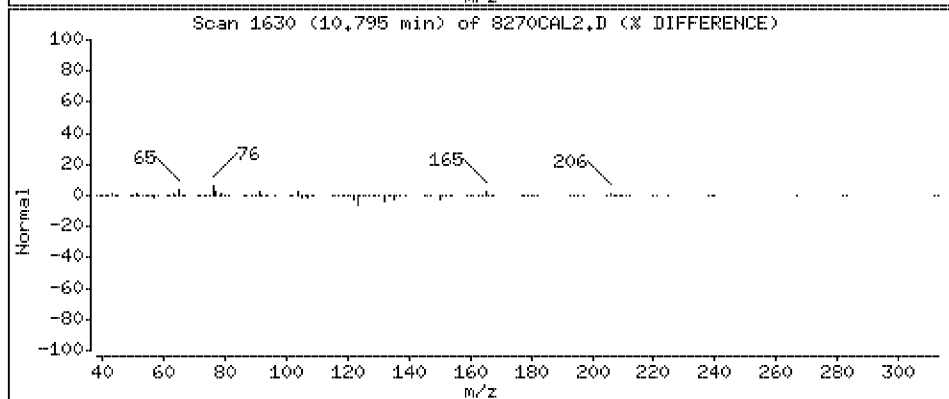
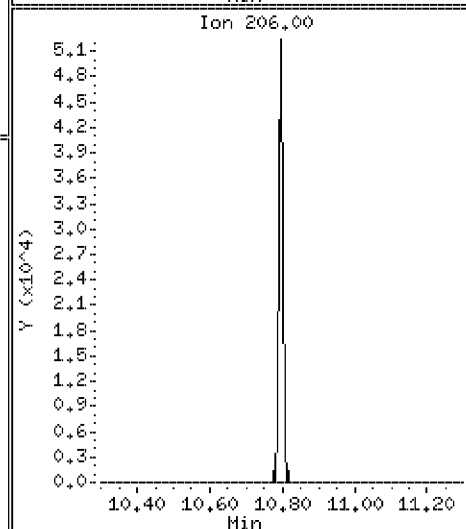
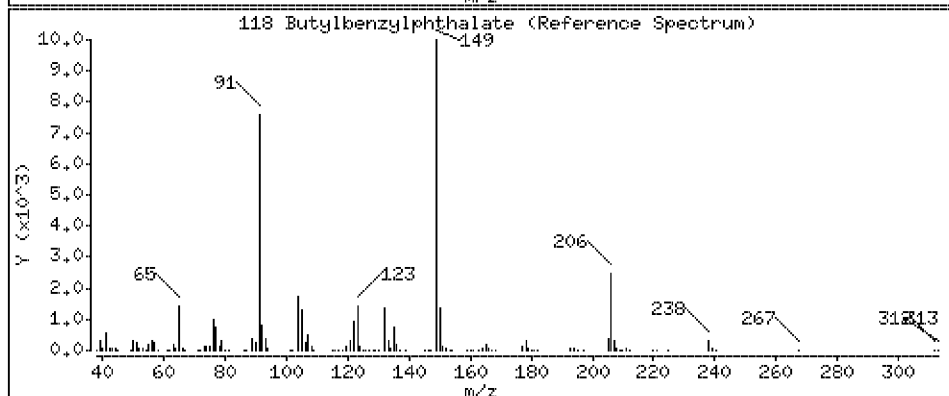
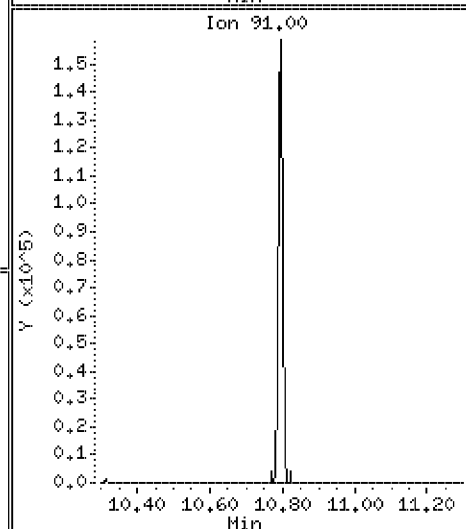
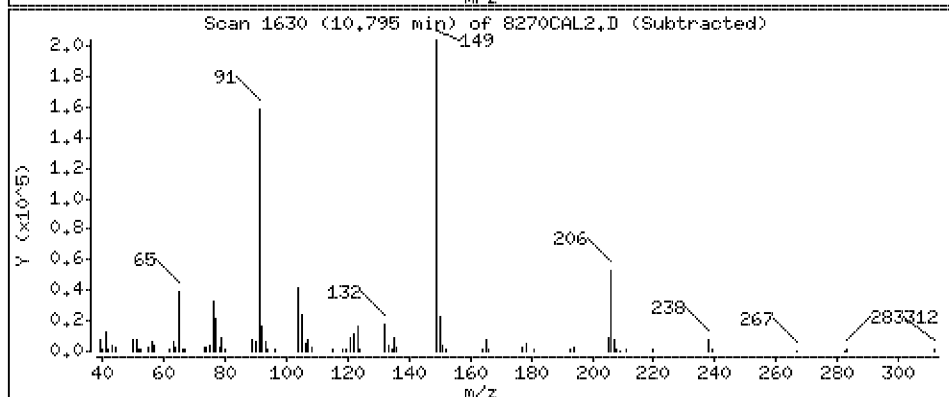
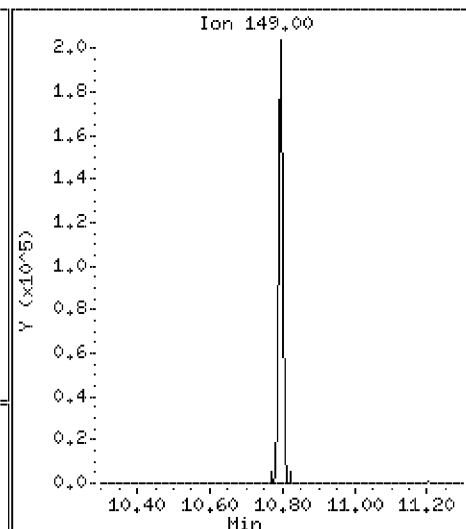
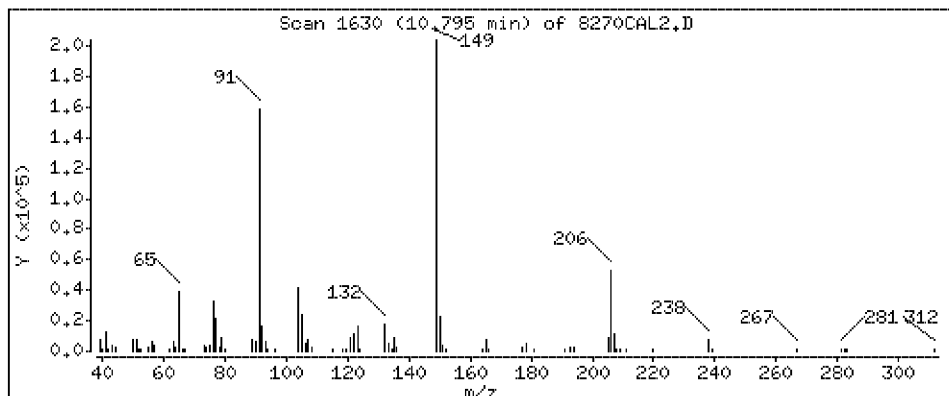
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

118 Butylbenzylphthalate

Concentration: 10.0 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

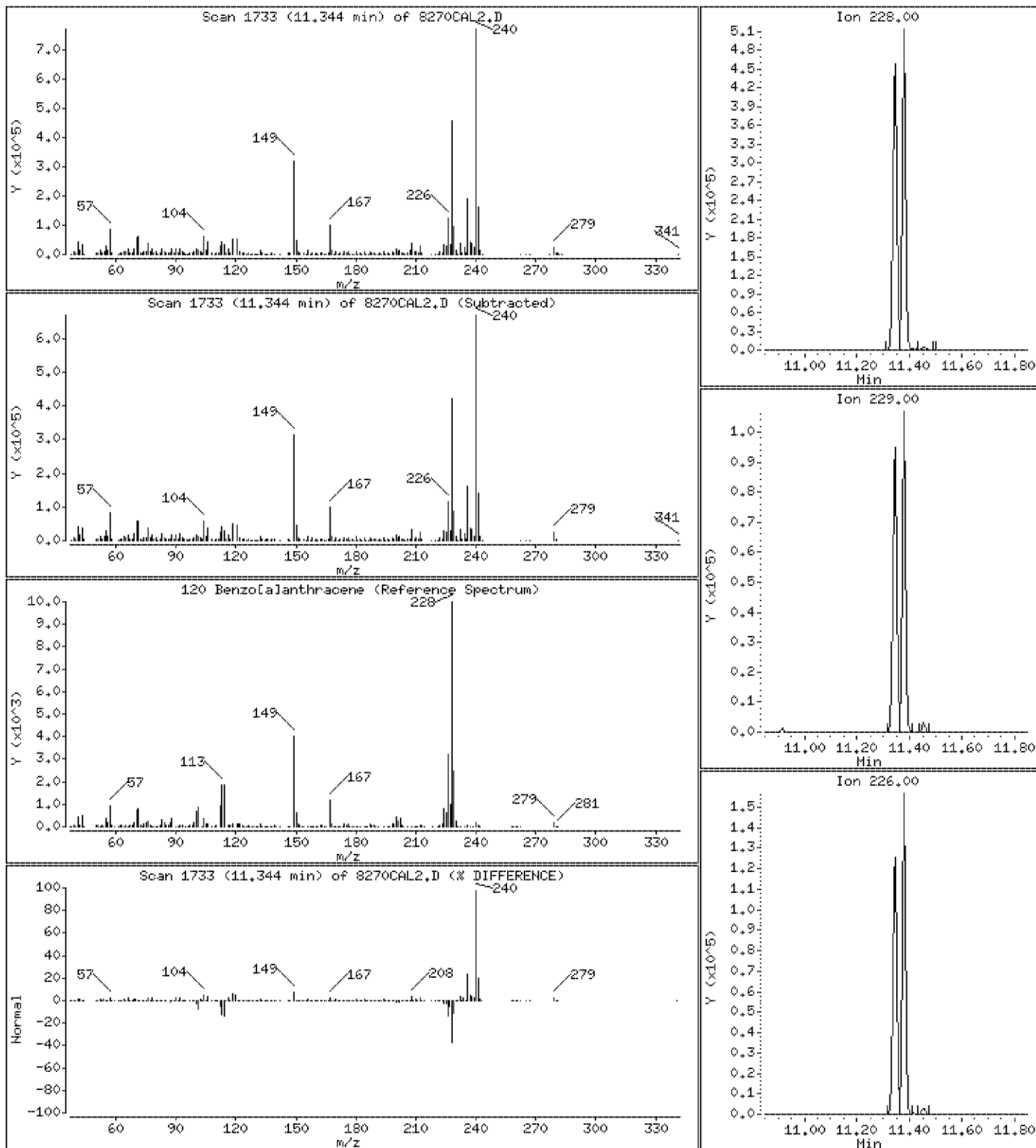
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

120 Benzo[*a*]anthracene

Concentration: 10.3 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

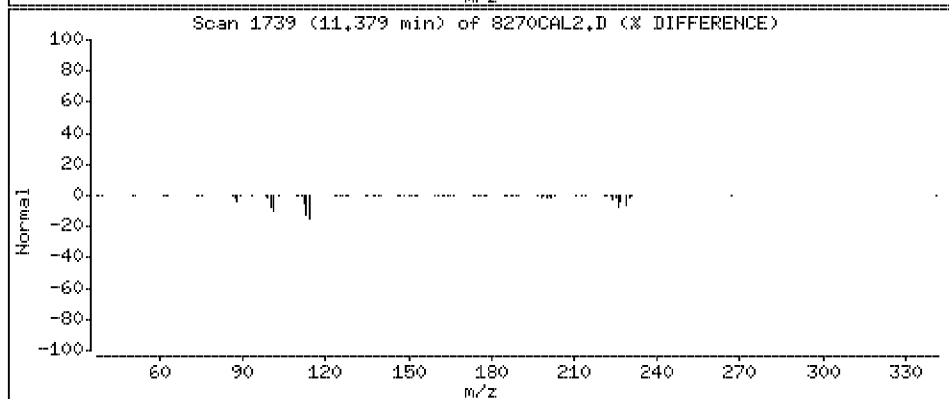
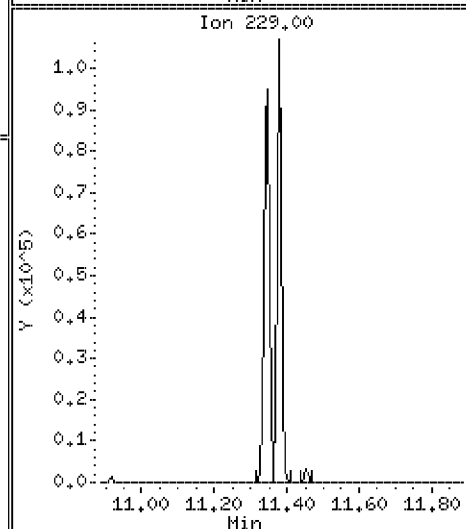
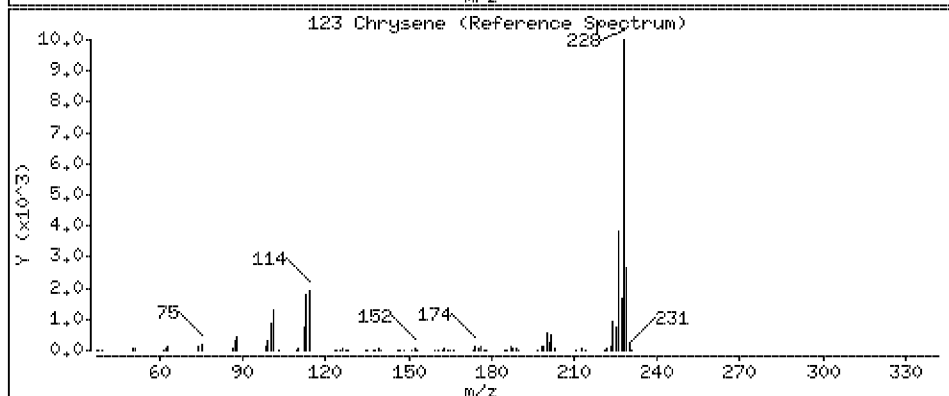
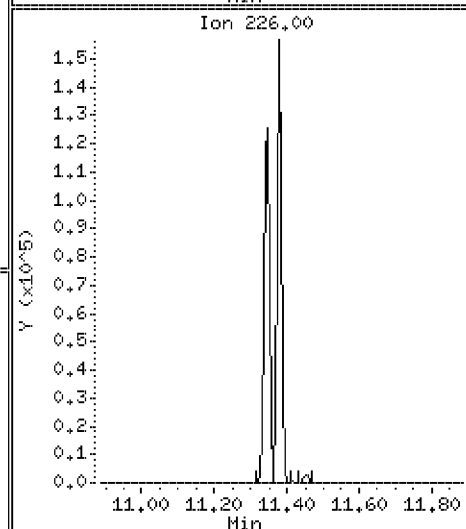
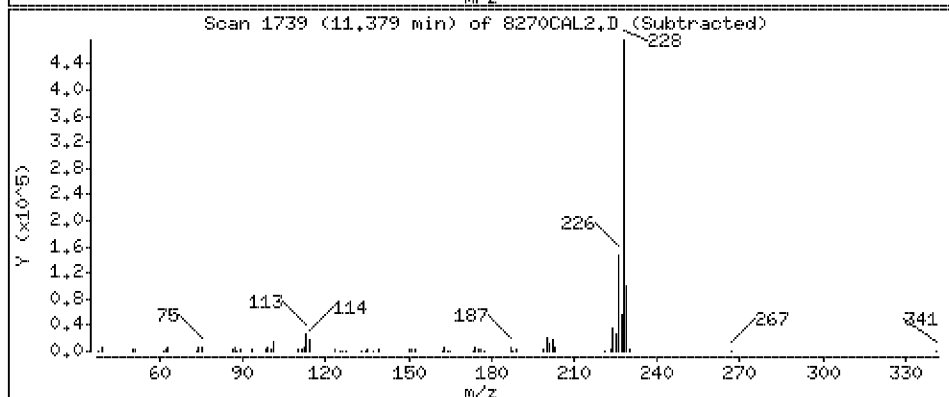
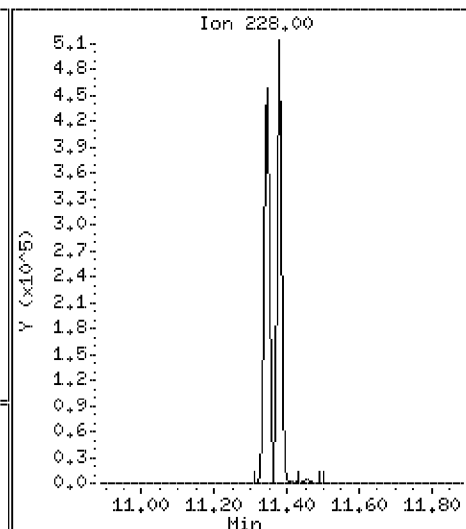
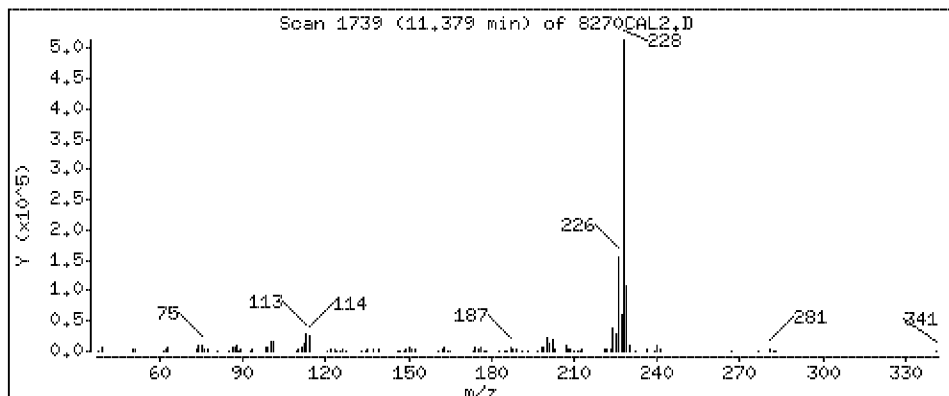
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

123 Chrysene

Concentration: 10.9 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

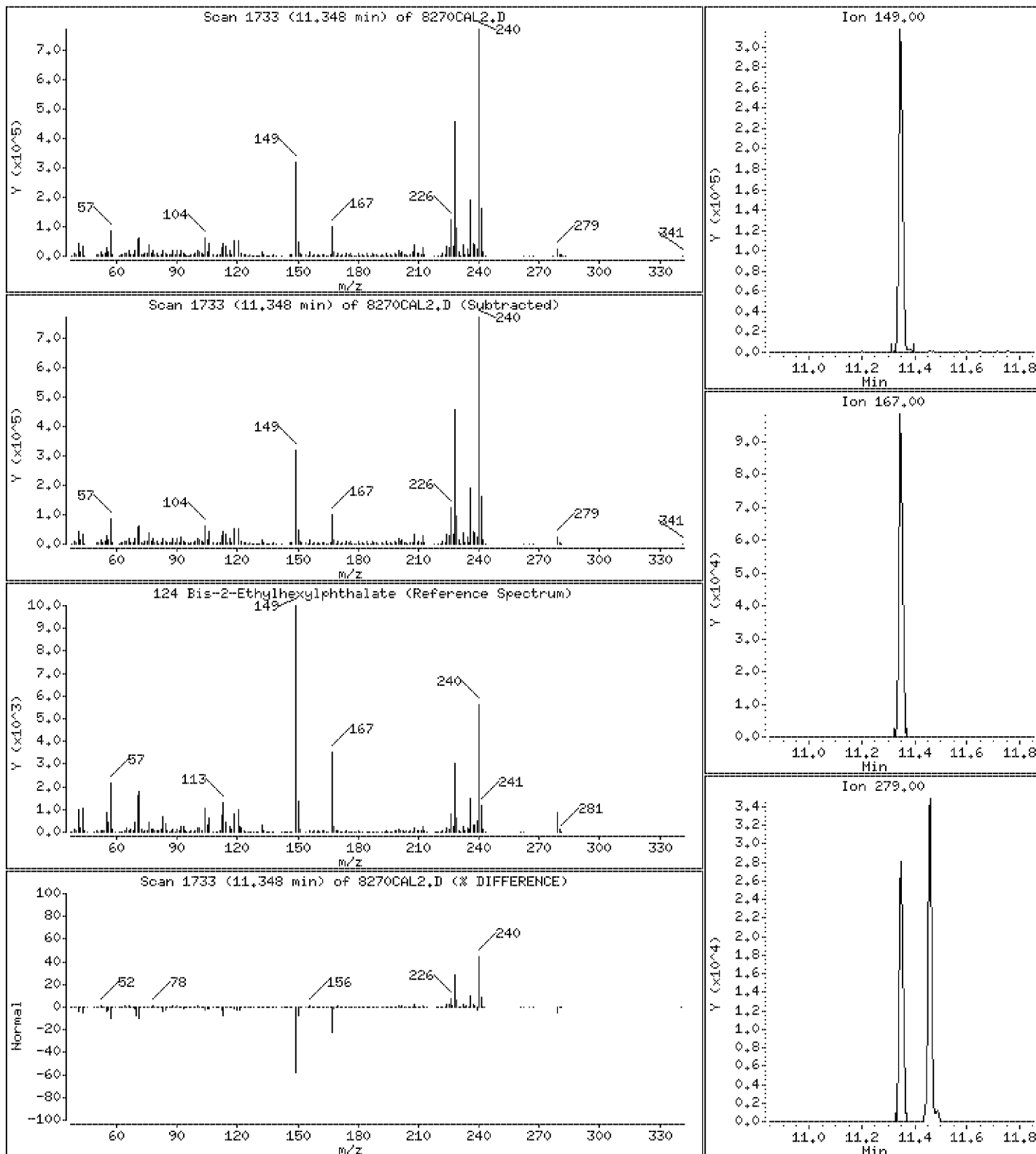
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

124 Bis-2-Ethylhexylphthalate

Concentration: 9.6 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

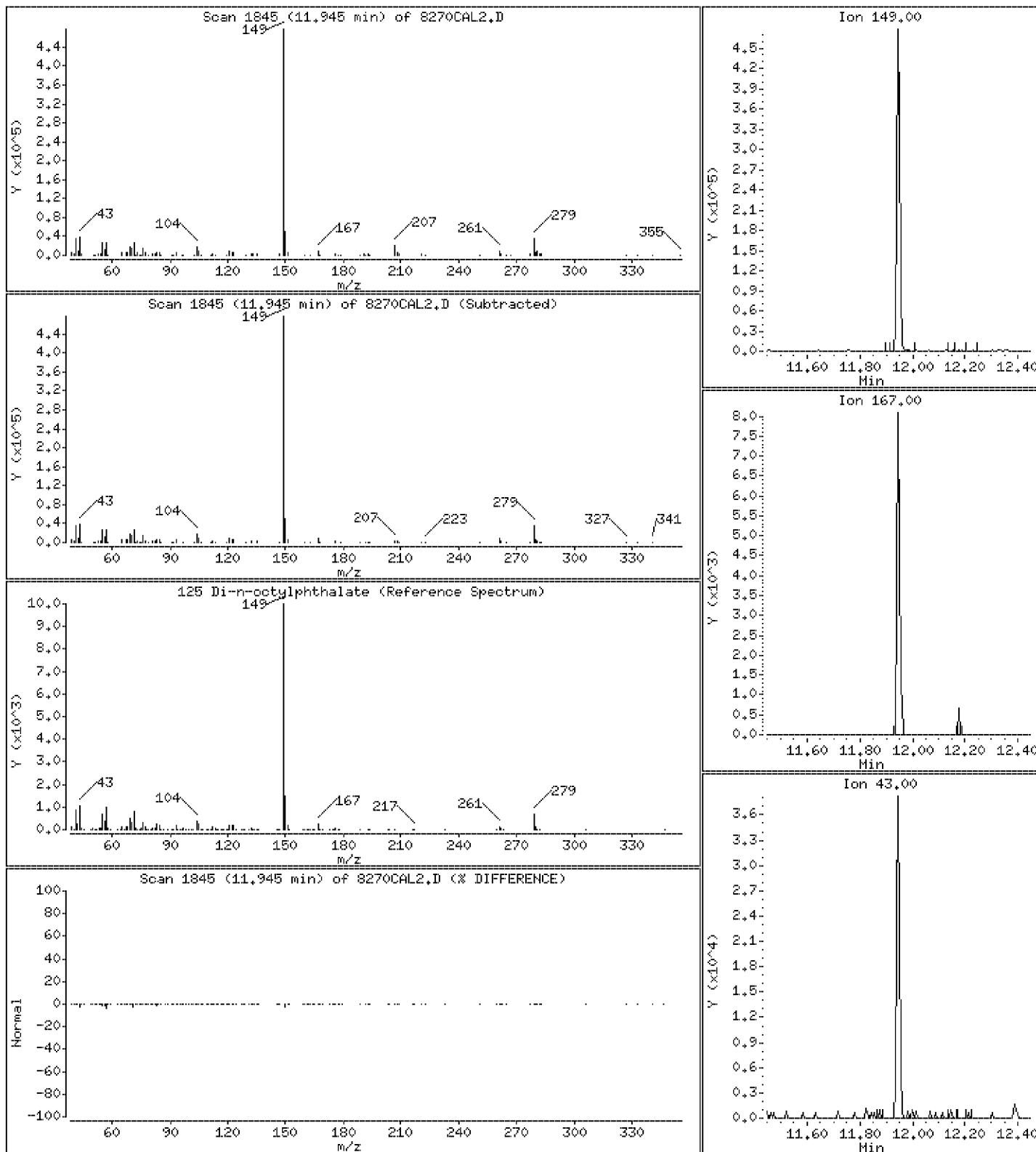
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

125 Di-n-octylphthalate

Concentration: 9.5 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

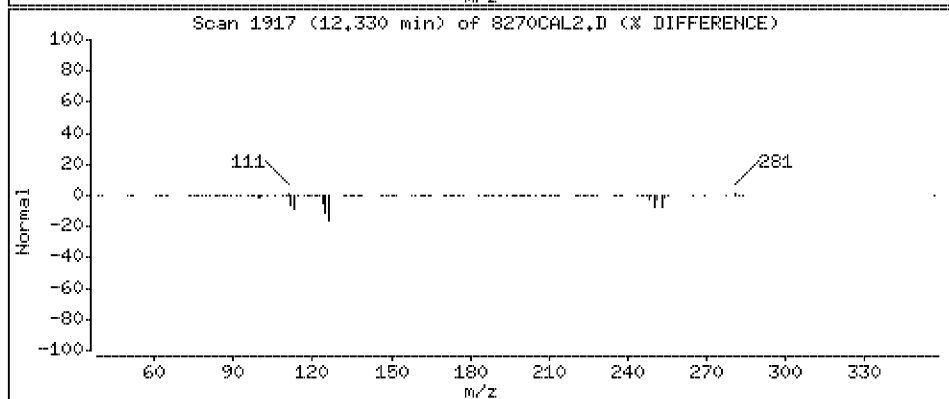
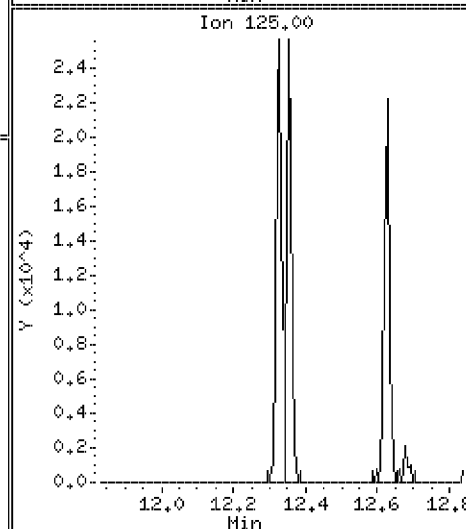
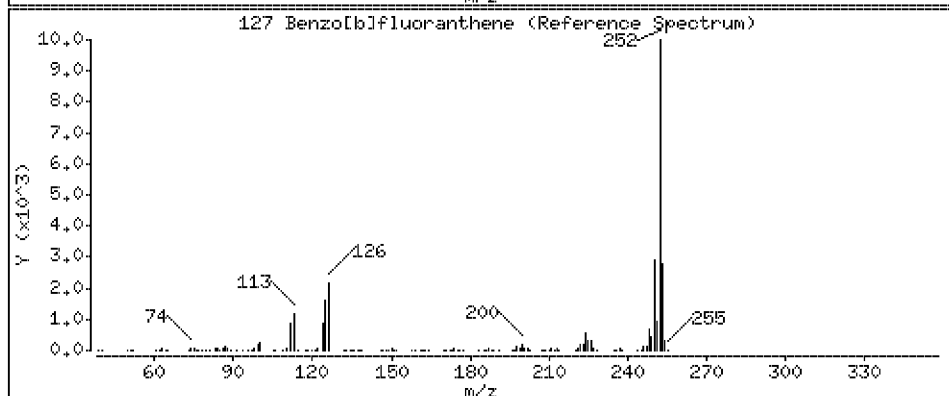
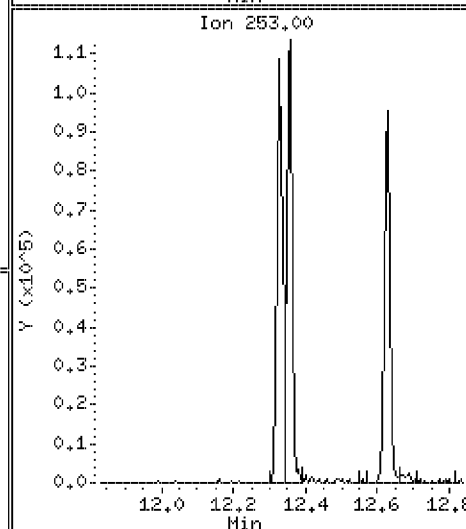
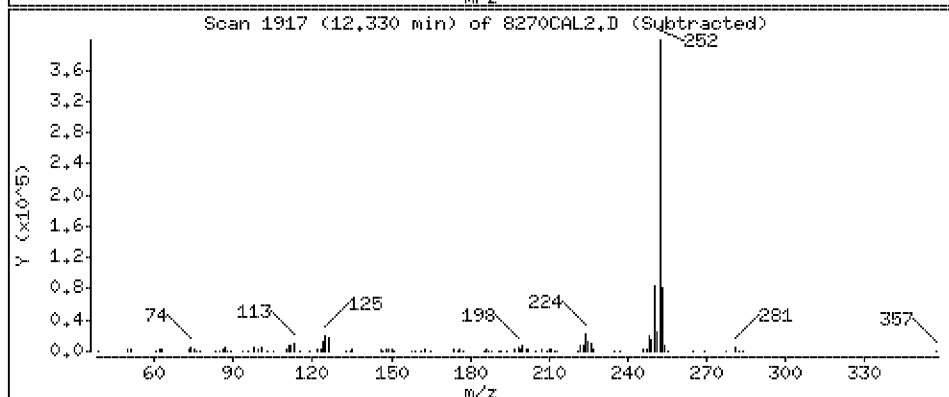
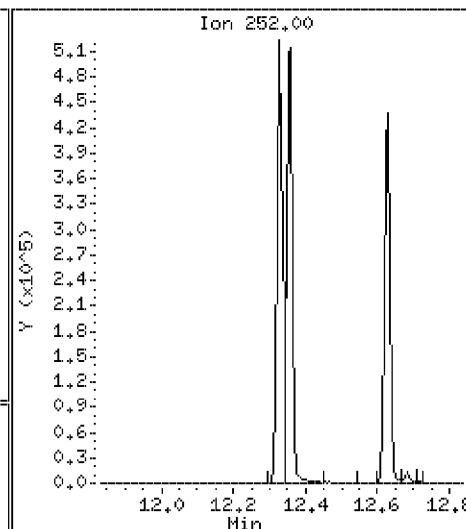
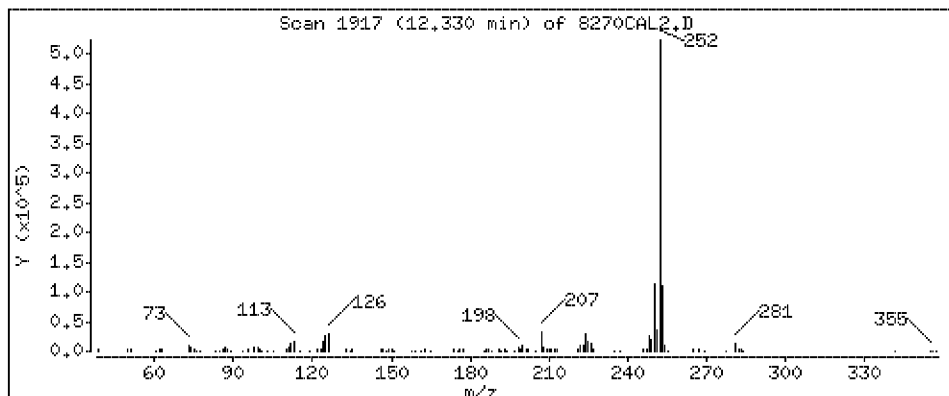
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

127 Benzo[b]fluoranthene

Concentration: 10.2 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

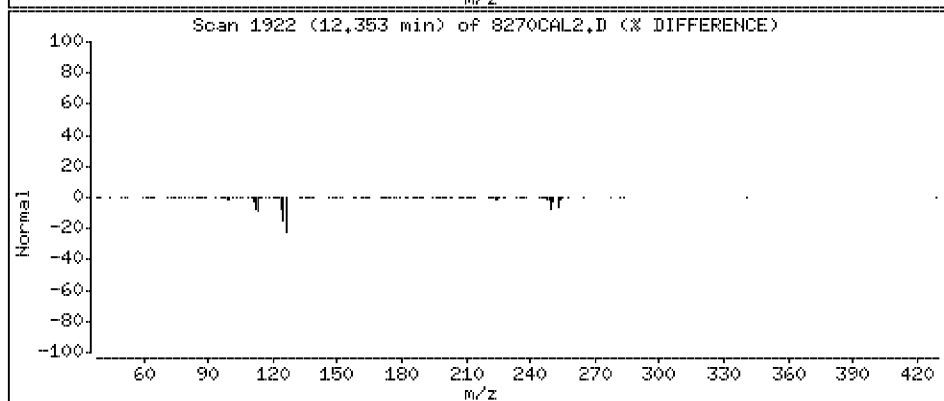
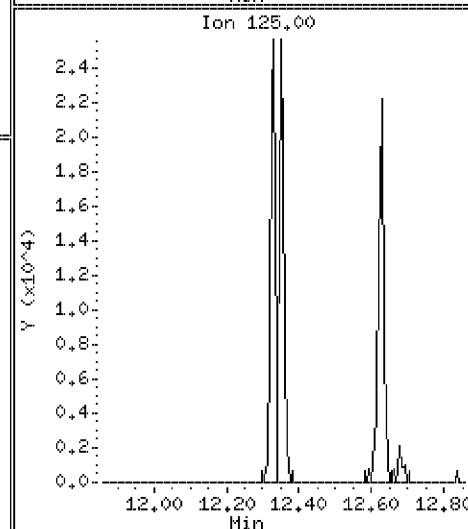
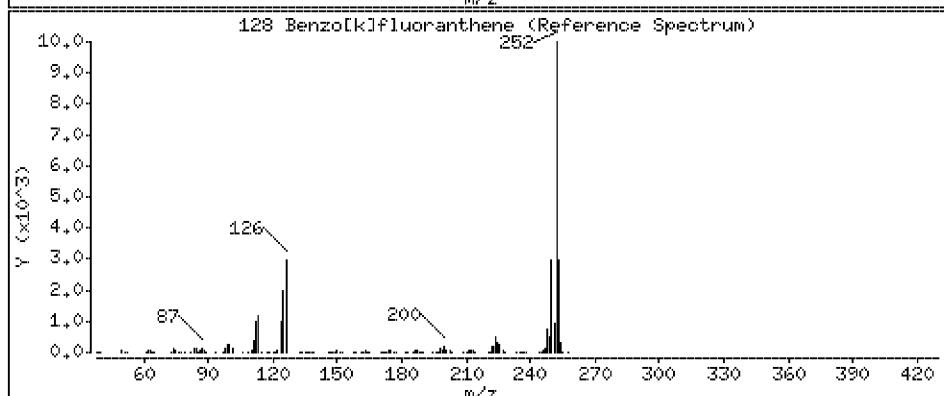
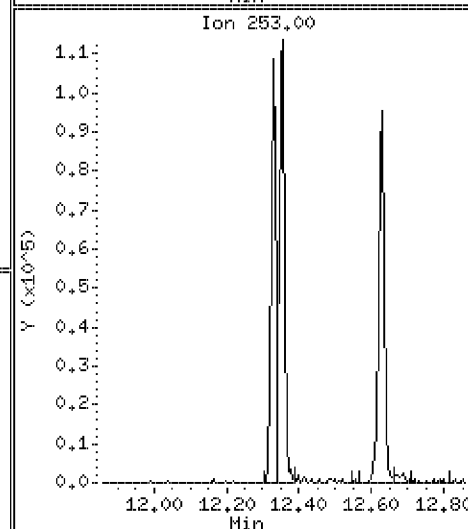
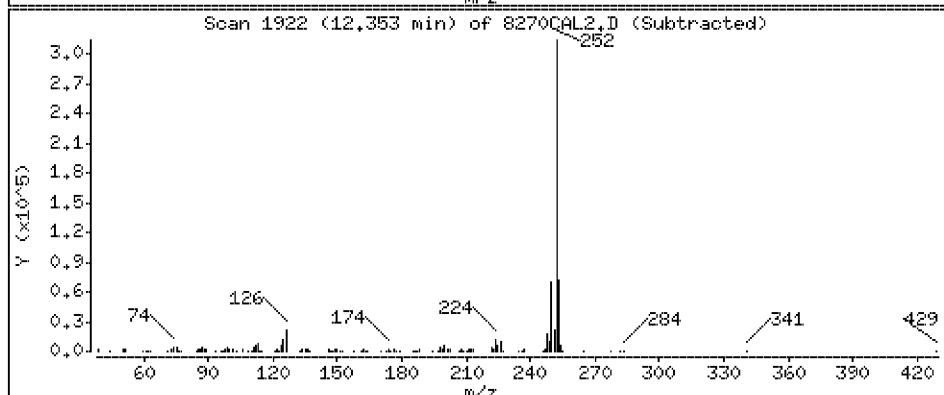
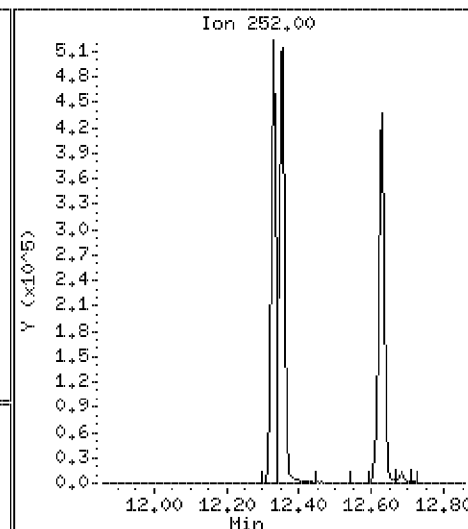
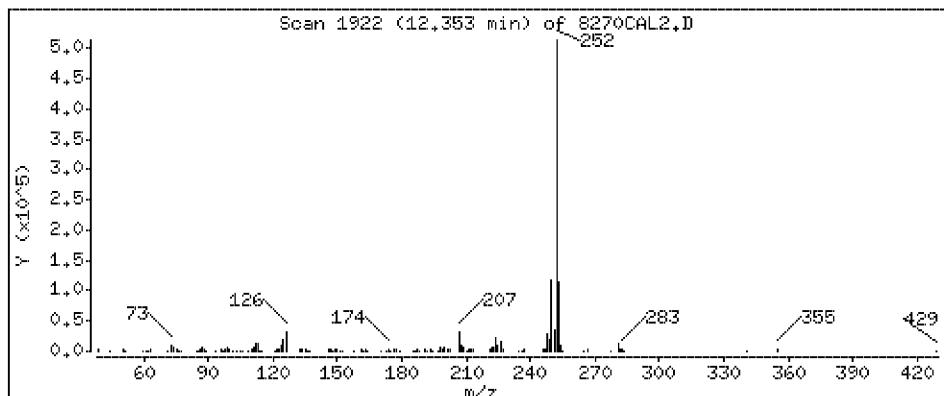
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

128 Benzo[k]fluoranthene

Concentration: 10 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

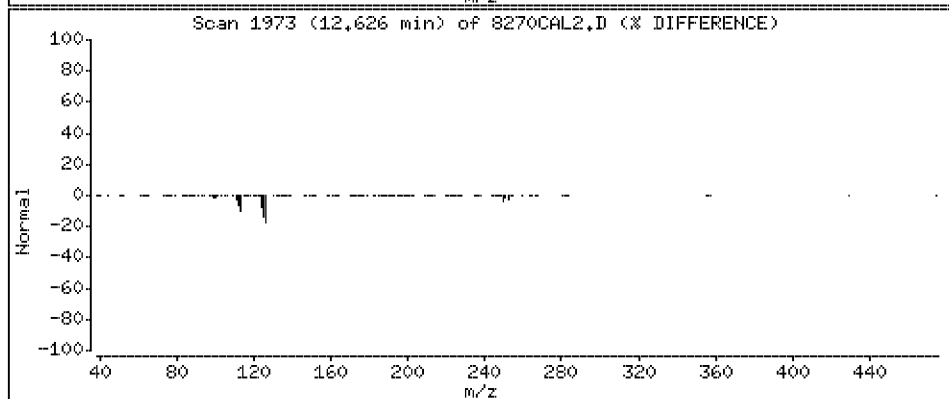
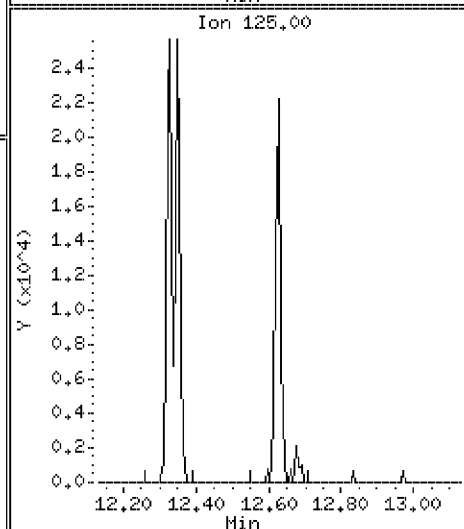
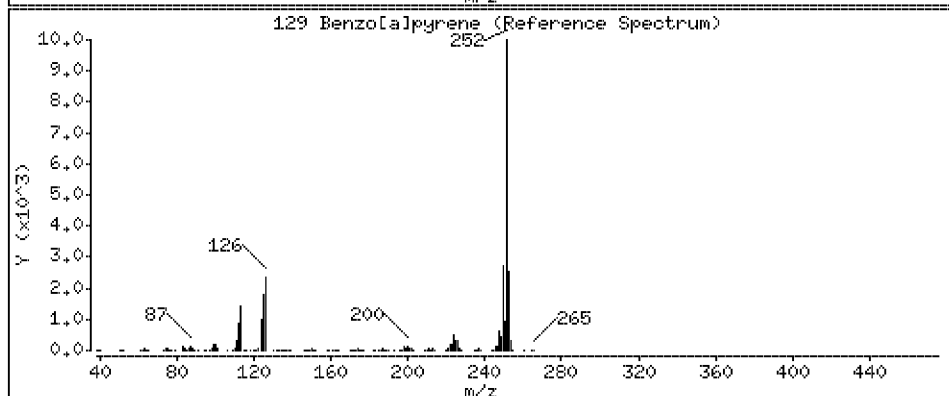
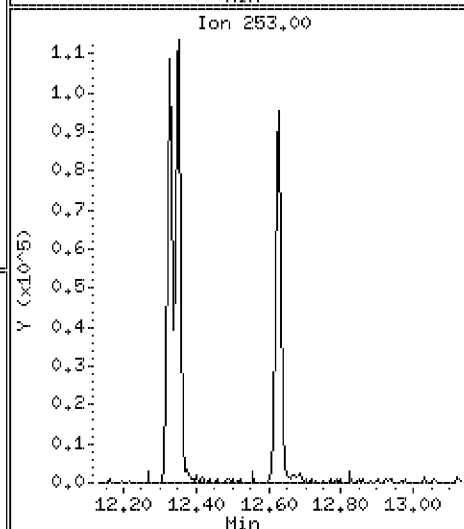
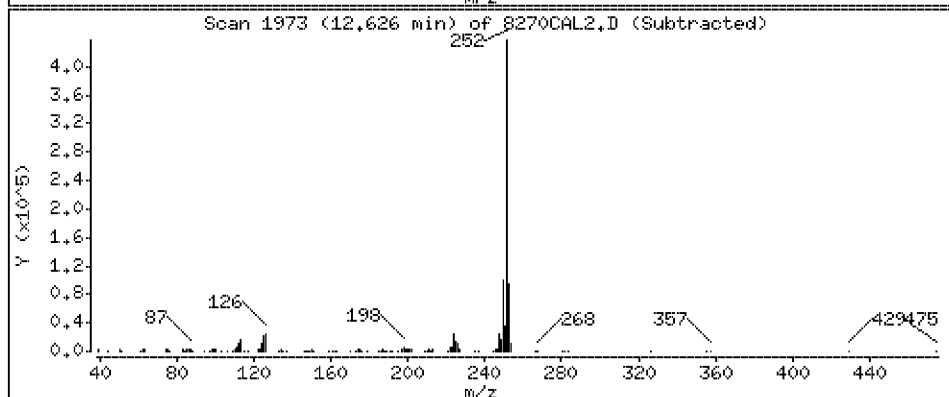
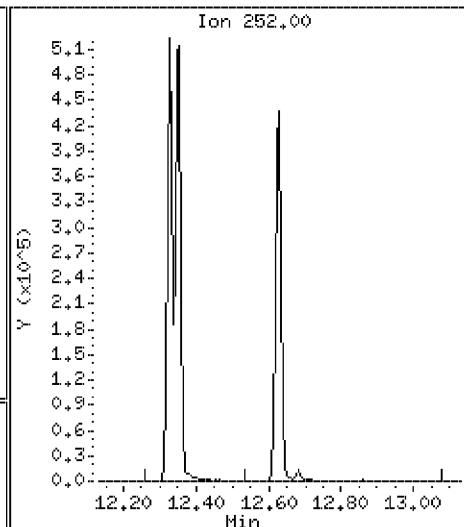
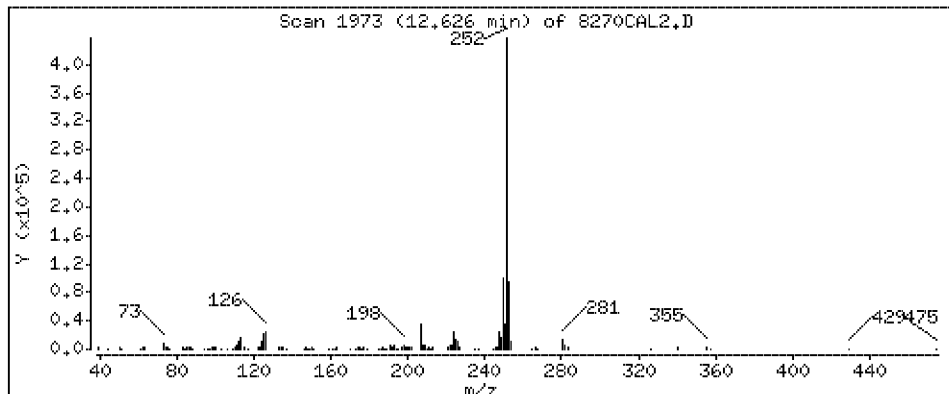
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

129 Benzo[ap]pyrene

Concentration: 10.1 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

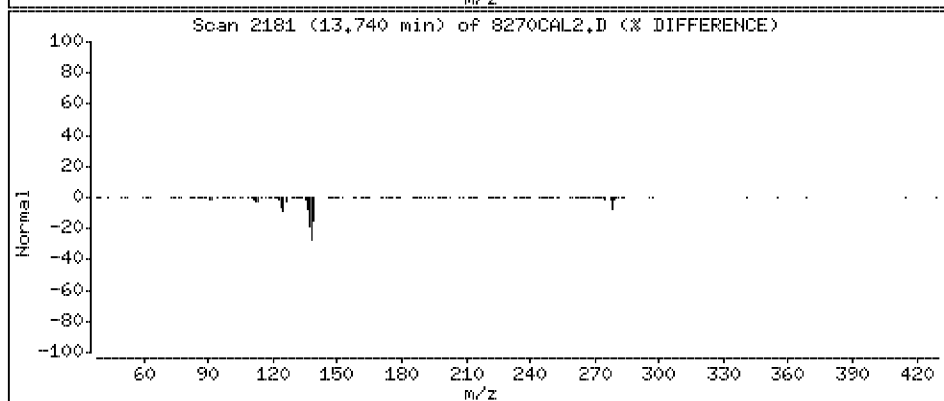
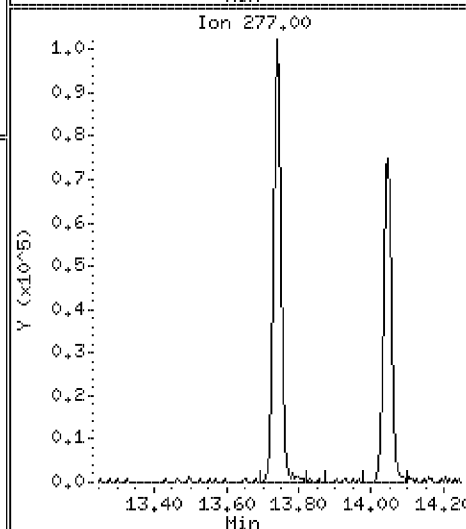
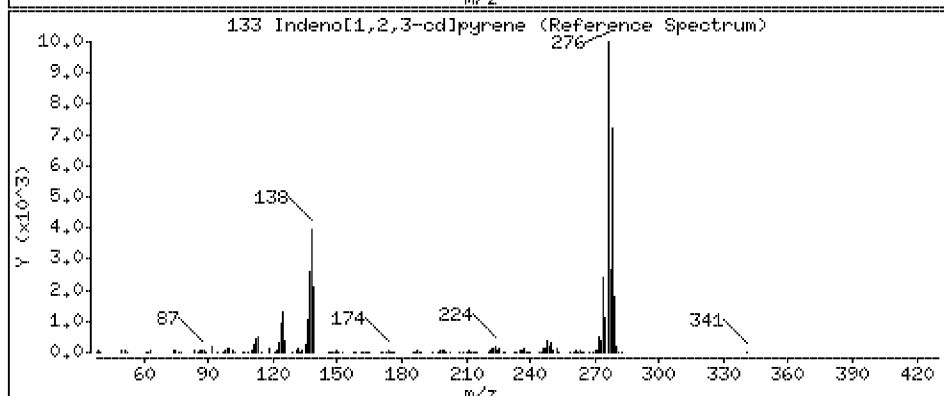
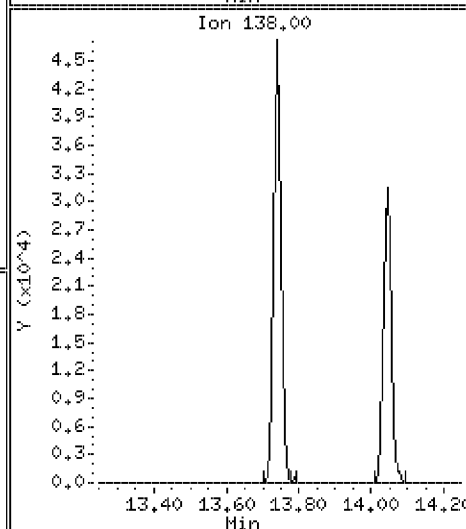
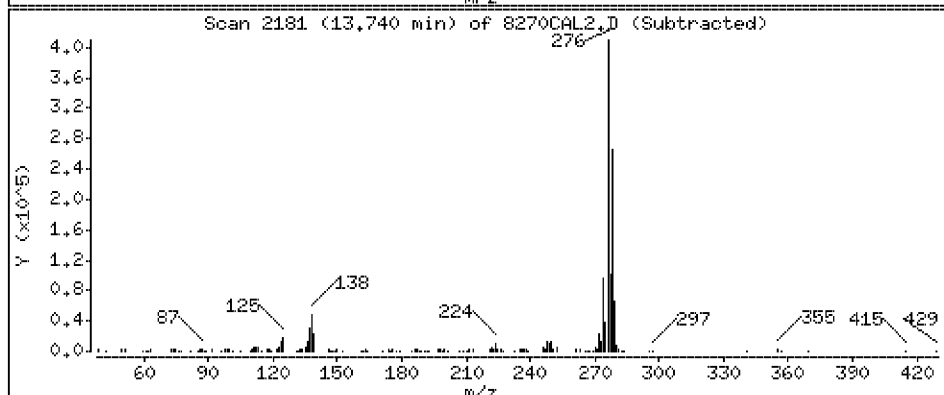
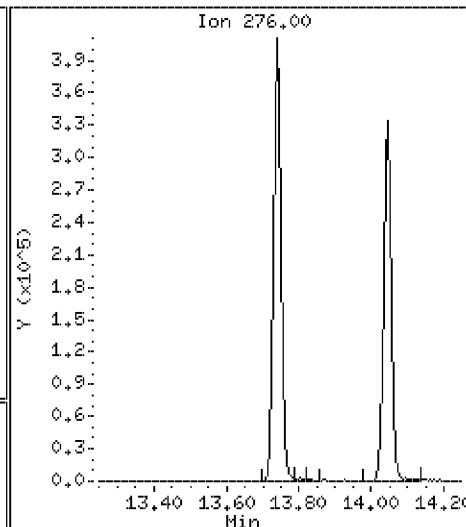
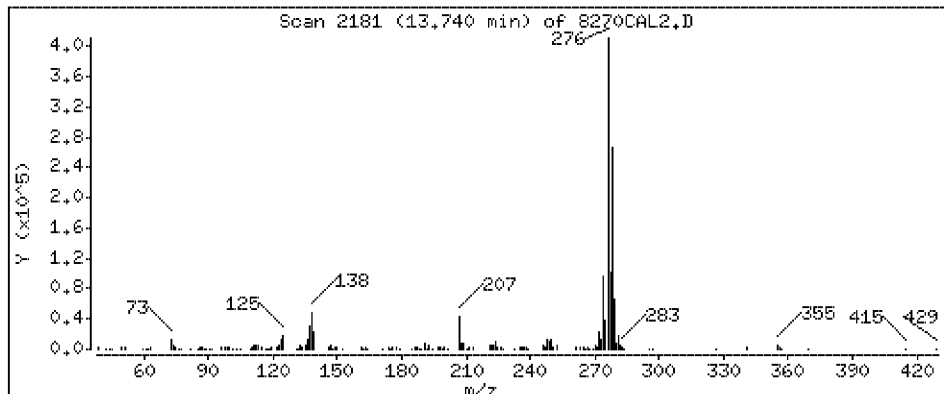
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

133 Indeno[1,2,3-cd]pyrene

Concentration: 9.7 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

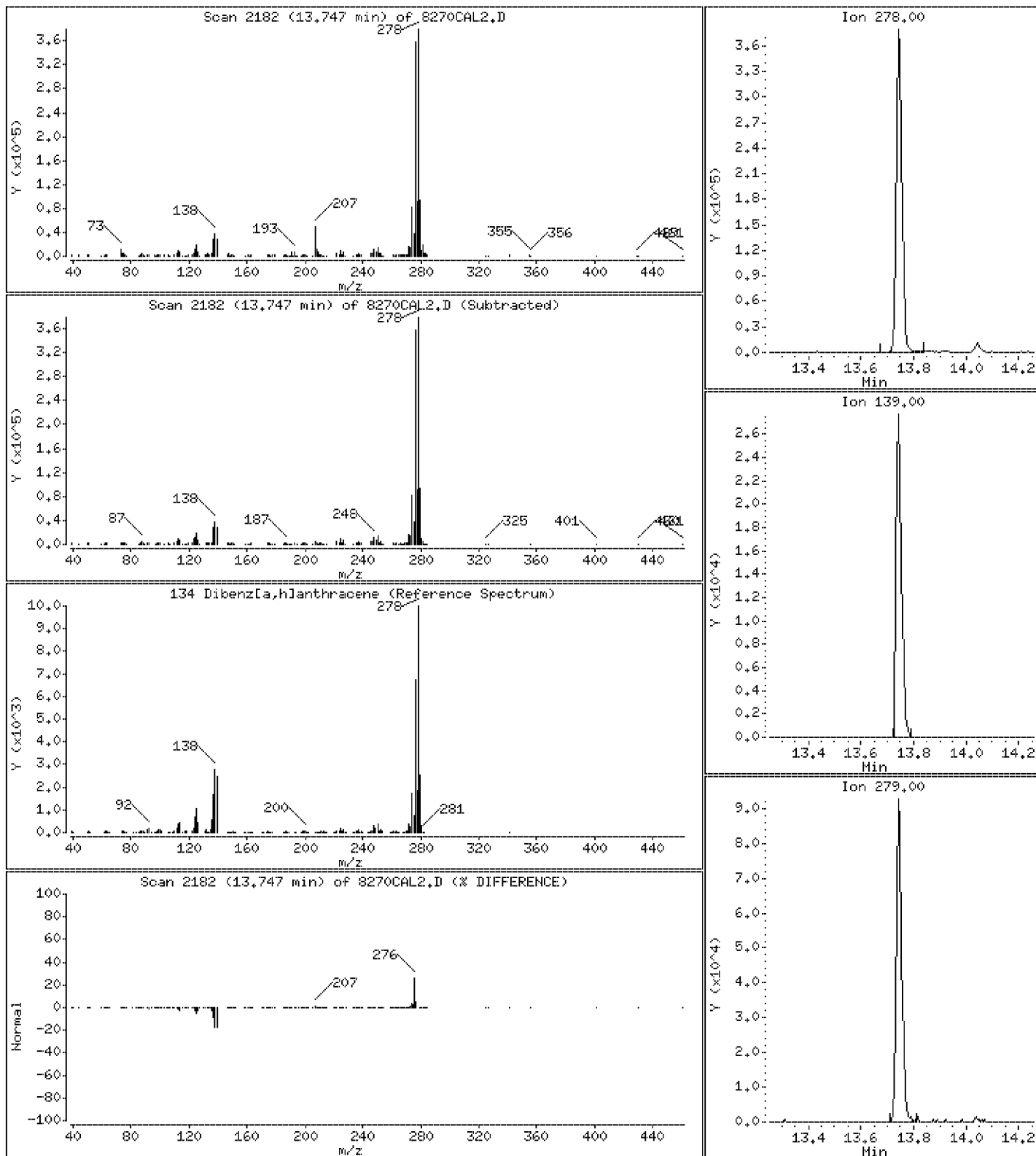
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

134 Dibenz[a,h]anthracene

Concentration: 9.6 ug/l



Date : 23-APR-2012 12:21

Client ID: 8270CAL2

Instrument: smsd03.i

Sample Info: 45926

Purge Volume: 1000.0

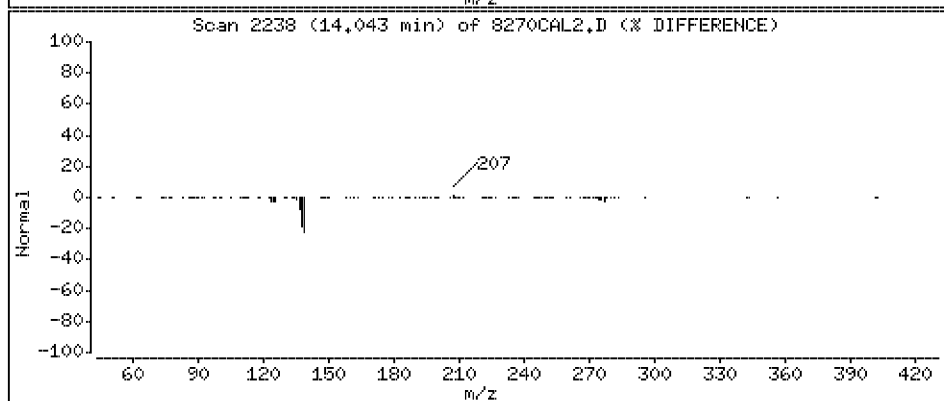
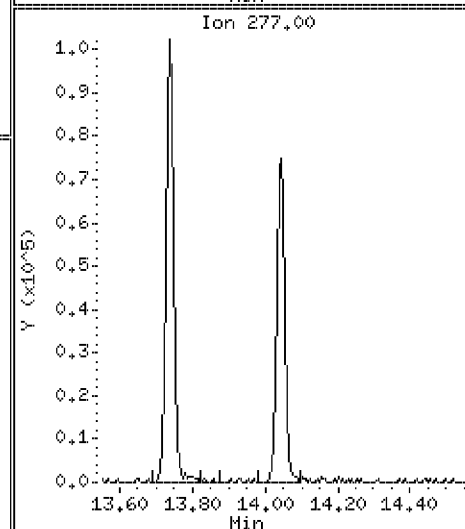
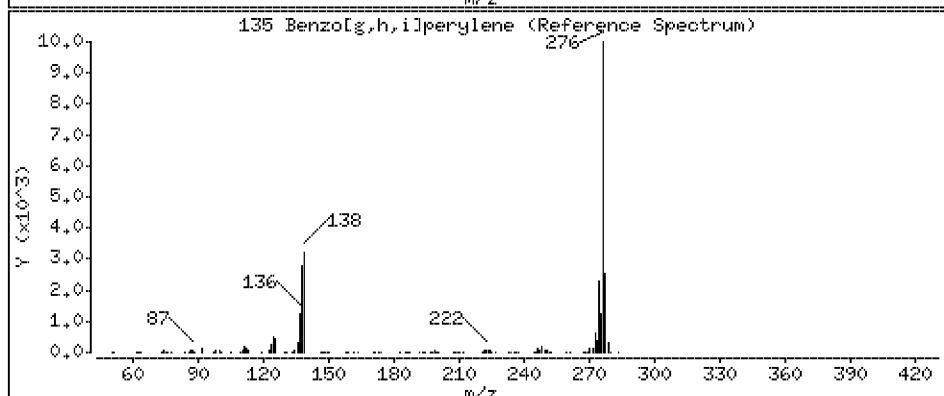
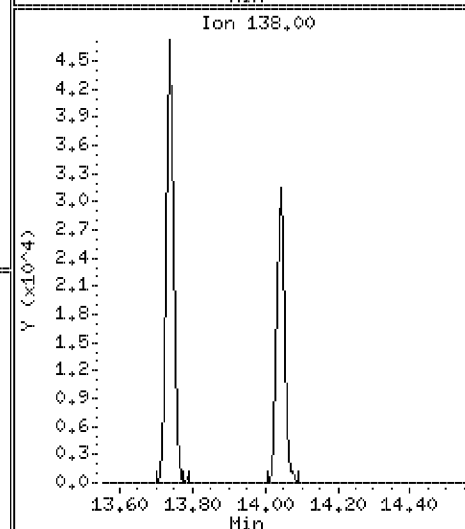
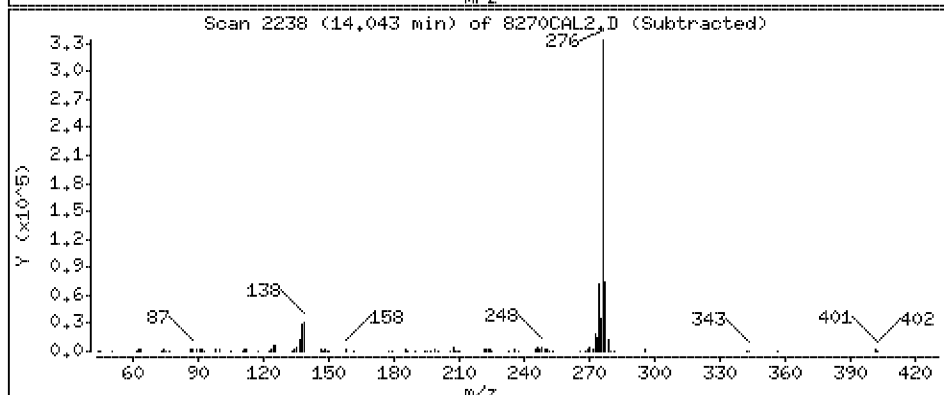
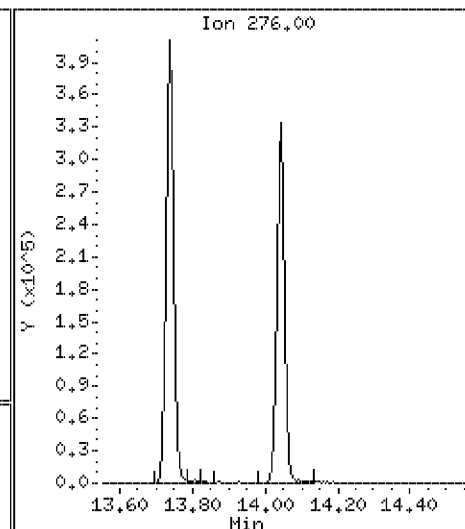
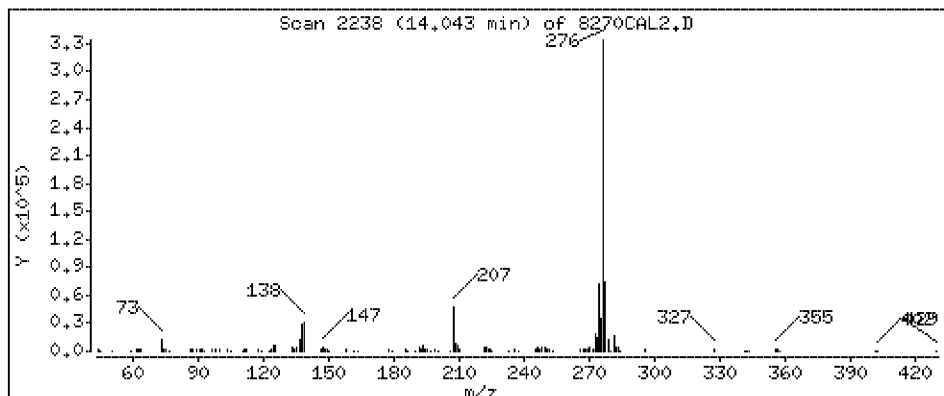
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

135 Benzo[g,h,i]perylene

Concentration: 10,5 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270CAL1.D
 Lab Smp Id: 45927 Client Smp ID: 8270CAL1
 Inj Date : 23-APR-2012 12:45 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 45927
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270bcs.m
 Meth Date : 25-Apr-2012 09:57 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 12:21 Cal File: 8270CAL2.D
 Als bottle: 7 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: 8270caln.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
2 Pyridine CAS #: 110-86-1									
2.409	2.381	(0.542)	79	46601	4.00000	3.8	80.00- 120.00	100.00(M)	
2.409	2.381	(0.542)	52	14527			7.01- 67.01	31.17	
M 16 Cresols (Total) CAS #: 1319-77-3									
				75383	8.00000			(a)	
1 N-Nitrosodimethylamine CAS #: 62-75-9									
2.344	2.338	(0.527)	42	22389	4.00000	4.0	80.00- 120.00	100.00	
2.345	2.338	(0.527)	74	30442			112.35- 172.35	135.97	
2.344	2.338	(0.527)	44	1714			0.00- 34.21	7.66	
\$ 6 2-Fluorophenol (SURR) CAS #: 367-12-4									
3.387	3.383	(0.762)	112	72303	8.00000	7.7	80.00- 120.00	100.00	
3.387	3.383	(0.762)	64	44600			33.15- 93.15	61.68	
\$ 11 Phenol-d5 (SURR) CAS #: 4165-62-2									
4.140	4.139	(0.931)	99	95391	8.00000	7.6	80.00- 120.00	100.00	
4.140	4.139	(0.931)	42	16997			0.00- 48.89	17.82	
4.141	4.139	(0.931)	71	51489			23.76- 83.76	53.98	
13 Phenol CAS #: 108-95-2									
4.152	4.151	(0.934)	94	53142	4.00000	3.7	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	====	=====	=====	=====	=====	=====	
13 Phenol (continued)									
4.156	4.151	(0.935)	65	32071			31.39- 91.39	60.35	
4.160	4.151	(0.936)	66	60721			81.48- 141.48	114.26	

10 Aniline CAS #: 62-53-3									
4.165	4.166	(0.937)	93	56624	4.00000	3.7	80.00- 120.00	100.00	
4.156	4.166	(0.935)	65	32071			26.91- 86.91	56.64	
4.160	4.166	(0.936)	66	60723			73.34- 133.34	107.24	

14 Bis(2-Chloroethyl)ether CAS #: 111-44-4									
4.205	4.210	(0.946)	93	34502	4.00000	3.8	80.00- 120.00	100.00	
4.205	4.210	(0.946)	63	25541			42.30- 102.30	74.03	
4.206	4.210	(0.946)	95	11485			1.53- 61.53	33.29	

15 2-Chlorophenol CAS #: 95-57-8									
4.277	4.278	(0.962)	128	36476	4.00000	3.9	80.00- 120.00	100.00	
4.277	4.278	(0.962)	64	19996			20.72- 80.72	54.82	
4.278	4.278	(0.962)	130	11682			2.39- 62.39	32.03	

17 1,3-Dichlorobenzene CAS #: 541-73-1									
4.400	4.401	(0.990)	146	45582	4.00000	3.9	80.00- 120.00	100.00	
4.401	4.401	(0.990)	148	29481			36.16- 96.16	64.68	
4.399	4.401	(0.989)	111	21034			16.14- 76.14	46.15	

* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.447	4.448	(1.000)	152	325883	40.0000		80.00- 120.00	100.00	
4.446	4.448	(1.000)	115	199974			32.20- 92.20	61.36	
4.447	4.448	(1.000)	150	494303			139.77- 199.77	151.68	

19 1,4-Dichlorobenzene CAS #: 106-46-7									
4.461	4.462	(1.003)	146	48367	4.00000	4.0	80.00- 120.00	100.00	
4.462	4.462	(1.003)	148	31025			38.09- 98.09	64.14	
4.461	4.462	(1.003)	111	26319			14.50- 74.50	54.42	

21 Benzyl alcohol CAS #: 100-51-6									
4.562	4.567	(1.026)	108	24066	4.00000	3.7	80.00- 120.00	100.00	
4.563	4.567	(1.026)	79	40098			152.29- 212.29	166.62	
4.563	4.567	(1.026)	77	30707			97.26- 157.26	127.59	

20 1,2-Dichlorobenzene CAS #: 95-50-1									
4.599	4.599	(1.034)	146	42503	4.00000	3.8	80.00- 120.00	100.00	
4.599	4.599	(1.034)	148	29123			38.32- 98.32	68.52	
4.599	4.599	(1.034)	111	21891			18.14- 78.14	51.50	

22 2-Methylphenol CAS #: 95-48-7									
4.671	4.671	(1.051)	107	31009	4.00000	3.6	80.00- 120.00	100.00	
4.671	4.671	(1.050)	108	35199			82.43- 142.43	113.51	
4.670	4.671	(1.050)	79	28688			55.43- 115.43	92.52	

23 2,2'-oxybis(1-chloropropane) CAS #: 108-60-1									
4.674	4.675	(1.051)	45	25426	4.00000	4.0	80.00- 120.00	100.00	
4.672	4.675	(1.051)	77	31952			102.98- 162.98	125.67	
4.675	4.675	(1.051)	121	12512			24.22- 84.22	49.21	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
28 4-Methylphenol					CAS #: 106-44-5				
4.806	4.808	(1.081)	107	44374	4.00000	3.6	80.00- 120.00	100.00	
4.806	4.808	(1.081)	108	35242			50.54- 110.54	79.42	
4.805	4.808	(1.081)	79	15219			2.76- 62.76	34.30	

26 N-Nitrosodipropylamine					CAS #: 621-64-7				
4.794	4.798	(1.078)	70	36273	4.00000	3.8	80.00- 120.00	100.00	
4.794	4.798	(1.078)	42	13952			6.87- 66.87	38.46	
4.793	4.798	(1.078)	130	6145			0.00- 49.23	16.94	

30 Hexachloroethane					CAS #: 67-72-1				
4.900	4.902	(1.102)	117	18984	4.00000	3.9	80.00- 120.00	100.00	
4.902	4.902	(1.102)	201	22353			90.07- 150.07	117.75	
4.902	4.902	(1.102)	199	14559			43.69- 103.69	76.69	

\$ 31 Nitrobenzene-d5 (SURR)					CAS #: 4165-60-0				
4.941	4.944	(0.881)	82	55226	4.00000	3.9	80.00- 120.00	100.00	
4.941	4.944	(0.881)	128	17865			2.76- 62.76	32.35	
4.939	4.944	(0.881)	54	20684			7.08- 67.08	37.45	

32 Nitrobenzene					CAS #: 98-95-3				
4.958	4.962	(0.884)	77	55086	4.00000	4.0	80.00- 120.00	100.00	
4.958	4.962	(0.884)	123	18003			4.18- 64.18	32.68	
4.958	4.962	(0.884)	65	8821			0.00- 45.17	16.01	

34 Isophorone					CAS #: 78-59-1				
5.172	5.176	(0.922)	82	63953	4.00000	4.2	80.00- 120.00	100.00	
5.171	5.176	(0.922)	138	10145			0.00- 46.29	15.86	
5.174	5.176	(0.923)	95	5563			0.00- 39.21	8.70	

35 2-Nitrophenol					CAS #: 88-75-5				
5.252	5.253	(0.937)	139	18758	4.00000	3.6	80.00- 120.00	100.00	
5.251	5.253	(0.936)	65	14999			43.34- 103.34	79.96	
5.251	5.253	(0.936)	109	9682			20.91- 80.91	51.62	

36 2,4-Dimethylphenol					CAS #: 105-67-9				
5.291	5.294	(0.944)	122	31724	4.00000	4.0	80.00- 120.00	100.00	
5.291	5.294	(0.943)	107	45897			111.45- 171.45	144.68	
5.291	5.294	(0.944)	121	16923			28.89- 88.89	53.34	

38 Bis(2-Chloroethoxy)methane					CAS #: 111-91-1				
5.366	5.369	(0.957)	93	44815	4.00000	3.9	80.00- 120.00	100.00	
5.366	5.369	(0.957)	95	14804			3.06- 63.06	33.03	
5.367	5.369	(0.957)	123	5036			0.00- 44.40	11.24	

40 Benzoic Acid					CAS #: 65-85-0				
5.346	5.404	(0.953)	122	10121	4.00000	5.9	80.00- 120.00	100.00	
5.347	5.404	(0.954)	105	12502			107.67- 167.67	123.53	
5.346	5.404	(0.953)	77	14061			104.37- 164.37	138.93	

41 2,4-Dichlorophenol					CAS #: 120-83-2				
5.489	5.490	(0.979)	162	33404	4.00000	3.6	80.00- 120.00	100.00	
5.489	5.490	(0.979)	164	24380			36.50- 96.50	72.99	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	
41 2,4-Dichlorophenol (continued)									
5.487	5.490	(0.979)	98	12781			5.73- 65.73	38.26	

42 1,2,4-Trichlorobenzene CAS #: 120-82-1									
5.552	5.555	(0.990)	180	47356	4.00000	4.0	80.00- 120.00	100.00	
5.552	5.555	(0.990)	182	44805			67.47- 127.47	94.61	
5.552	5.555	(0.990)	145	13014			0.00- 58.13	27.48	

* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.608	5.610	(1.000)	136	1046976	40.0000		80.00- 120.00	100.00	
5.607	5.610	(1.000)	68	60100			0.00- 35.51	5.74	

44 Naphthalene CAS #: 91-20-3									
5.627	5.630	(1.003)	128	111265	4.00000	4.1	80.00- 120.00	100.00	
5.627	5.630	(1.003)	129	12339			0.00- 41.28	11.09	
5.626	5.630	(1.003)	127	12699			0.00- 43.27	11.41	

45 4-Chloroaniline CAS #: 106-47-8									
5.679	5.681	(1.013)	127	45050	4.00000	4.0	80.00- 120.00	100.00	
5.678	5.681	(1.013)	129	14751			2.39- 62.39	32.74	
5.679	5.681	(1.013)	65	17824			11.54- 71.54	39.56	

48 Hexachlorobutadiene CAS #: 87-68-3									
5.744	5.746	(1.024)	225	34556	4.00000	3.9	80.00- 120.00	100.00	
5.744	5.746	(1.024)	223	21647			32.02- 92.02	62.64	
5.744	5.746	(1.024)	227	24995			34.54- 94.54	72.33	

51 4-Chloro-3-methylphenol CAS #: 59-50-7									
6.159	6.158	(1.098)	107	34576	4.00000	3.8	80.00- 120.00	100.00	
6.160	6.158	(1.099)	144	7910			0.00- 55.95	22.88	
6.161	6.158	(1.099)	142	26066			44.47- 104.47	75.39	

53 2-Methylnaphthalene CAS #: 91-57-6									
6.287	6.289	(1.121)	142	77897	4.00000	4.0	80.00- 120.00	100.00	
6.287	6.289	(1.121)	141	67990			58.08- 118.08	87.28	

54 1-Methylnaphthalene CAS #: 90-12-0									
6.383	6.385	(1.138)	142	70243	4.00000	4.0	80.00- 120.00	100.00	
6.383	6.385	(1.138)	141	62427			61.72- 121.72	88.87	

55 Hexachlorocyclopentadiene CAS #: 77-47-4									
6.443	6.445	(0.882)	237	40091	4.00000	3.4	80.00- 120.00	100.00	
6.443	6.445	(0.882)	235	26032			33.37- 93.37	64.93	
6.443	6.445	(0.882)	272	5690			0.00- 43.74	14.19	

57 2,4,6-Trichlorophenol CAS #: 88-06-2									
6.622	6.620	(0.907)	196	32585	4.00000	3.6	80.00- 120.00	100.00	
6.623	6.620	(0.907)	198	32276			67.07- 127.07	99.05	
6.622	6.620	(0.907)	200	9887			1.30- 61.30	30.34	

58 2,4,5-Trichlorophenol CAS #: 95-95-4									
6.569	6.570	(0.900)	196	29407	4.00000	3.5	80.00- 120.00	100.00	
6.568	6.570	(0.899)	198	29475			69.46- 129.46	100.23	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
58 2,4,5-Trichlorophenol (continued)									
6.568	6.570	(0.899)	97	19391			34.72- 94.72	65.94	

\$ 59 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.641	6.644	(0.909)	172	110811	4.00000	3.9	80.00- 120.00	100.00	
6.641	6.644	(0.909)	171	36324			5.03- 65.03	32.78	

62 2-Chloronaphthalene CAS #: 91-58-7									
6.759	6.763	(0.925)	162	80122	4.00000	3.7	80.00- 120.00	100.00	
6.760	6.763	(0.926)	164	27674			4.20- 64.20	34.54	
6.759	6.763	(0.925)	127	30739			7.85- 67.85	38.37	

63 2-Nitroaniline CAS #: 88-74-4									
6.864	6.869	(0.940)	65	26072	4.00000	3.5	80.00- 120.00	100.00	
6.863	6.869	(0.940)	92	15286			30.25- 90.25	58.63	
6.864	6.869	(0.940)	138	19033			52.43- 112.43	73.00	

65 Dimethylphthalate CAS #: 131-11-3									
7.034	7.040	(0.963)	163	96321	4.00000	3.9	80.00- 120.00	100.00	
7.033	7.040	(0.963)	194	5585			0.00- 35.55	5.80	
7.033	7.040	(0.963)	164	11104			0.00- 40.55	11.53	

68 Acenaphthylene CAS #: 208-96-8									
7.164	7.167	(0.981)	152	122926	4.00000	3.8	80.00- 120.00	100.00	
7.164	7.167	(0.981)	151	24207			0.00- 50.50	19.69	
7.164	7.167	(0.981)	153	16898			0.00- 43.76	13.75	

67 2,6-Dinitrotoluene CAS #: 606-20-2									
7.094	7.100	(0.971)	165	19613	4.00000	3.5	80.00- 120.00	100.00	
7.094	7.100	(0.971)	89	14511			49.02- 109.02	73.99	
7.094	7.100	(0.971)	63	16439			44.86- 104.86	83.82	

69 3-Nitroaniline CAS #: 99-09-2									
7.265	7.271	(0.995)	138	18741	4.00000	3.8	80.00- 120.00	100.00	
7.264	7.271	(0.995)	108	1438			0.00- 41.32	7.67	
7.264	7.271	(0.995)	92	23994			100.05- 160.05	128.03	

* 70 Acenaphthene-d10 CAS #: 15067-26-2									
7.303	7.305	(1.000)	164	736764	40.0000		80.00- 120.00	100.00	
7.303	7.305	(1.000)	162	694641			64.73- 124.73	94.28	
7.303	7.305	(1.000)	160	322102			12.46- 72.46	43.72	

71 Acenaphthene CAS #: 83-32-9									
7.334	7.338	(1.004)	154	69337	4.00000	3.6	80.00- 120.00	100.00	
7.334	7.338	(1.004)	153	80547			78.46- 138.46	116.17	
7.333	7.338	(1.004)	152	38213			23.44- 83.44	55.11	

72 2,4-Dinitrophenol CAS #: 51-28-5									
7.370	7.369	(1.009)	184	2883	4.00000	7.7	80.00- 120.00	100.00	
7.363	7.369	(1.008)	63	1786			48.07- 108.07	61.95	
7.366	7.369	(1.009)	154	2420			39.61- 99.61	83.94	

74 4-Nitrophenol CAS #: 100-02-7									
7.483	7.476	(1.025)	109	17079	4.00000	3.2	80.00- 120.00	100.00(Q)	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
74 4-Nitrophenol (continued)									
7.501	7.476	(1.027)	139	60682			26.63- 86.63	355.30	
7.483	7.476	(1.025)	65	20092			81.59- 141.59	117.64	

75 Dibenzofuran CAS #: 132-64-9									
7.501	7.506	(1.027)	168	124394	4.00000	3.9	80.00- 120.00	100.00	
7.501	7.506	(1.027)	139	60682			12.75- 72.75	48.78	

76 2,4-Dinitrotoluene CAS #: 121-14-2									
7.489	7.494	(1.025)	165	27749	4.00000	3.5	80.00- 120.00	100.00	
7.489	7.494	(1.025)	63	30656			82.10- 142.10	110.48	
7.489	7.494	(1.025)	89	28480			72.08- 132.08	102.63	

80 Diethylphthalate CAS #: 84-66-2									
7.721	7.729	(1.057)	149	91580	4.00000	4.0	80.00- 120.00	100.00	
7.722	7.729	(1.057)	177	20455			0.00- 53.36	22.34	
7.720	7.729	(1.057)	150	11938			0.00- 42.43	13.04	

81 Fluorene CAS #: 86-73-7									
7.837	7.841	(1.073)	166	96821	4.00000	3.5	80.00- 120.00	100.00	
7.837	7.841	(1.073)	165	94382			65.55- 125.55	97.48	
7.837	7.841	(1.073)	167	13331			0.00- 44.15	13.77	

82 4-Chlorophenyl-phenylether CAS #: 7005-72-3									
7.834	7.838	(1.073)	204	56268	4.00000	3.4	80.00- 120.00	100.00	
7.834	7.838	(1.073)	206	19309			4.27- 64.27	34.32	
7.834	7.838	(1.073)	141	31429			24.97- 84.97	55.86	

84 4-Nitroaniline CAS #: 100-01-6									
7.862	7.874	(1.077)	138	19527	4.00000	4.5	80.00- 120.00	100.00	
7.862	7.874	(1.077)	92	11138			38.02- 98.02	57.04	
7.862	7.874	(1.077)	108	25997			124.92- 184.92	133.13	

85 4,6-Dinitro-2-methylphenol CAS #: 534-52-1									
7.886	7.896	(0.900)	198	12572	4.00000	5.9	80.00- 120.00	100.00	
7.886	7.896	(0.900)	51	4382			6.77- 66.77	34.86	
7.885	7.896	(0.900)	105	4111			8.50- 68.50	32.70	

86 N-Nitrosodiphenylamine CAS #: 86-30-6									
7.950	7.956	(0.908)	169	64871	4.00000	3.8	80.00- 120.00	100.00	
7.951	7.956	(0.908)	168	42335			36.61- 96.61	65.26	
7.951	7.956	(0.908)	167	23431			4.62- 64.62	36.12	

87 1,2-Diphenylhydrazine CAS #: 122-66-7									
7.988	7.992	(1.094)	77	104756	4.00000	4.0	80.00- 120.00	100.00	
7.989	7.992	(1.094)	105	12903			0.00- 43.34	12.32	
7.989	7.992	(1.094)	182	26609			0.00- 56.11	25.40	

88 2,4,6-Tribromophenol (SURR) CAS #: 118-79-6									
8.078	8.083	(1.106)	330	34232	8.00000	6.6	80.00- 120.00	100.00	
8.078	8.083	(1.106)	332	35196			66.43- 126.43	102.82	
8.077	8.083	(1.106)	141	14162			9.24- 69.24	41.37	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
93 4-Bromophenylphenylether					CAS #: 101-55-3				
8.314	8.318	(0.949)	248	36259	4.00000	3.7	80.00- 120.00	100.00	
8.313	8.318	(0.949)	250	36123			67.36- 127.36	99.62	
8.313	8.318	(0.949)	141	24814			35.77- 95.77	68.44	

94 Hexachlorobenzene					CAS #: 118-74-1				
8.381	8.387	(0.957)	284	42501	4.00000	3.8	80.00- 120.00	100.00	
8.380	8.387	(0.957)	142	12835			2.39- 62.39	30.20	
8.381	8.387	(0.957)	249	11338			0.06- 60.06	26.68	

96 Pentachlorophenol					CAS #: 87-86-5				
8.582	8.585	(0.980)	266	19212	4.00000	2.9	80.00- 120.00	100.00	
8.581	8.585	(0.980)	264	9800			33.70- 93.70	51.01	
8.582	8.585	(0.980)	268	10266			35.26- 95.26	53.44	

* 100 Phenanthrene-d10					CAS #: 1517-22-2				
8.758	8.761	(1.000)	188	1346330	40.0000		80.00- 120.00	100.00	
8.757	8.761	(1.000)	94	83022			0.00- 36.35	6.17	
8.757	8.761	(1.000)	80	104982			0.00- 37.82	7.80	

101 Phenanthrene					CAS #: 85-01-8				
8.780	8.785	(1.002)	178	139617	4.00000	4.0	80.00- 120.00	100.00	
8.780	8.785	(1.002)	179	22269			0.00- 46.33	15.95	
8.780	8.785	(1.002)	176	26820			0.00- 50.11	19.21	

103 Anthracene					CAS #: 120-12-7				
8.829	8.835	(1.008)	178	136037	4.00000	3.9	80.00- 120.00	100.00	
8.829	8.835	(1.008)	179	21497			0.00- 45.97	15.80	
8.828	8.835	(1.008)	176	23820			0.00- 49.80	17.51	

104 Carbazole					CAS #: 86-74-8				
8.991	8.996	(1.027)	167	116989	4.00000	4.1	80.00- 120.00	100.00	
8.990	8.996	(1.026)	139	14990			0.00- 43.89	12.81	
8.991	8.996	(1.027)	83	6445			0.00- 36.17	5.51	

105 Di-n-butylphthalate					CAS #: 84-74-2				
9.323	9.327	(1.065)	149	134475	4.00000	3.7	80.00- 120.00	100.00	
9.325	9.327	(1.065)	150	12283			0.00- 40.04	9.13	
9.324	9.327	(1.065)	104	10835			0.00- 37.79	8.06	

109 Fluoranthene					CAS #: 206-44-0				
9.947	9.953	(1.136)	202	163870	4.00000	4.1	80.00- 120.00	100.00	
9.946	9.953	(1.136)	101	9993			0.00- 36.69	6.10	
9.948	9.953	(1.136)	203	29495			0.00- 48.82	18.00	

111 Pyrene					CAS #: 129-00-0				
10.171	10.176	(0.896)	202	165300	4.00000	4.6	80.00- 120.00	100.00	
10.171	10.176	(0.896)	200	34357			0.00- 51.88	20.78	
10.171	10.176	(0.896)	203	29618			0.00- 49.33	17.92	

\$ 112 Terphenyl-d14 (SURR)					CAS #: 1718-51-0				
10.318	10.322	(0.909)	244	161899	4.00000	4.8	80.00- 120.00	100.00	
10.317	10.322	(0.909)	122	10033			0.00- 36.72	6.20	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 112 Terphenyl-d14 (SURR) (continued)								
10.318	10.322	(0.909)	212	11584			0.00- 38.06	7.16

118 Butylbenzylphthalate						CAS #: 85-68-7		
10.794	10.798	(0.951)	149	59959	4.00000	3.9	80.00- 120.00	100.00
10.794	10.798	(0.951)	91	47815			51.57- 111.57	79.75
10.794	10.798	(0.951)	206	15773			0.00- 55.14	26.31

120 Benzo[a]anthracene						CAS #: 56-55-3		
11.343	11.348	(0.999)	228	196611	4.00000	4.4	80.00- 120.00	100.00
11.343	11.348	(0.999)	229	37448			0.00- 51.57	19.05
11.342	11.348	(0.999)	226	52700			0.00- 58.54	26.80

* 121 Chrysene-d12						CAS #: 1719-03-5		
11.354	11.359	(1.000)	240	1791449	40.0000		80.00- 120.00	100.00
11.352	11.359	(1.000)	120	101543			0.00- 36.38	5.67
11.354	11.359	(1.000)	236	476713			0.00- 57.06	26.61

123 Chrysene						CAS #: 218-01-9		
11.377	11.384	(1.002)	228	182591	4.00000	4.6	80.00- 120.00	100.00
11.377	11.384	(1.002)	226	55101			1.12- 61.12	30.18
11.377	11.384	(1.002)	229	38016			0.00- 51.74	20.82

124 Bis-2-Ethylhexylphthalate						CAS #: 117-81-7		
11.348	11.350	(0.999)	149	101199	4.00000	3.8	80.00- 120.00	100.00
11.349	11.350	(1.000)	167	33116			2.07- 62.07	32.72
11.349	11.350	(1.000)	279	8929			0.00- 39.24	8.82

125 Di-n-octylphthalate						CAS #: 117-84-0		
11.945	11.948	(0.942)	149	142265	4.00000	3.5	80.00- 120.00	100.00
11.945	11.948	(0.942)	167	1952			0.00- 31.74	1.37
11.944	11.948	(0.942)	43	10234			0.00- 38.21	7.19

127 Benzo[b]fluoranthene						CAS #: 205-99-2		
12.327	12.333	(0.972)	252	189692	4.00000	3.8	80.00- 120.00	100.00
12.327	12.333	(0.972)	253	38174			0.00- 54.02	20.12
12.328	12.333	(0.972)	125	8335			0.00- 34.93	4.39

128 Benzo[k]fluoranthene						CAS #: 207-08-9		
12.350	12.359	(0.974)	252	207286	4.00000	4.2	80.00- 120.00	100.00
12.350	12.359	(0.974)	253	48205			0.00- 53.57	23.26
12.348	12.359	(0.974)	125	9108			0.00- 35.26	4.39

129 Benzo[a]pyrene						CAS #: 50-32-8		
12.623	12.630	(0.995)	252	182280	4.00000	3.8	80.00- 120.00	100.00 (M)
12.623	12.630	(0.995)	253	38474			0.00- 54.04	21.11
12.622	12.630	(0.995)	125	10979			0.00- 35.52	6.02

* 130 Perylene-d12						CAS #: 1520-96-3		
12.680	12.682	(1.000)	264	1864963	40.0000		80.00- 120.00	100.00
12.680	12.682	(1.000)	260	457444			0.00- 54.80	24.53
12.680	12.682	(1.000)	265	433588			0.00- 53.39	23.25

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
133 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5				
13.736	13.749	(1.083)	276	236792	4.00000	3.9	80.00- 120.00	100.00	
13.735	13.749	(1.083)	138	24116			0.00- 42.48	10.18	
13.735	13.749	(1.083)	277	58155			0.00- 56.82	24.56	

134 Dibenz[a,h]anthracene					CAS #: 53-70-3				
13.743	13.755	(1.084)	278	202127	4.00000	3.8	80.00- 120.00	100.00	
13.742	13.755	(1.084)	139	16619			0.00- 37.70	8.22	
13.744	13.755	(1.084)	279	47237			0.00- 54.57	23.37	

135 Benzo[g,h,i]perylene					CAS #: 191-24-2				
14.039	14.053	(1.107)	276	191249	4.00000	4.1	80.00- 120.00	100.00	
14.038	14.053	(1.107)	138	19324			0.00- 40.01	10.10	
14.039	14.053	(1.107)	277	47000			0.00- 54.80	24.58	

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

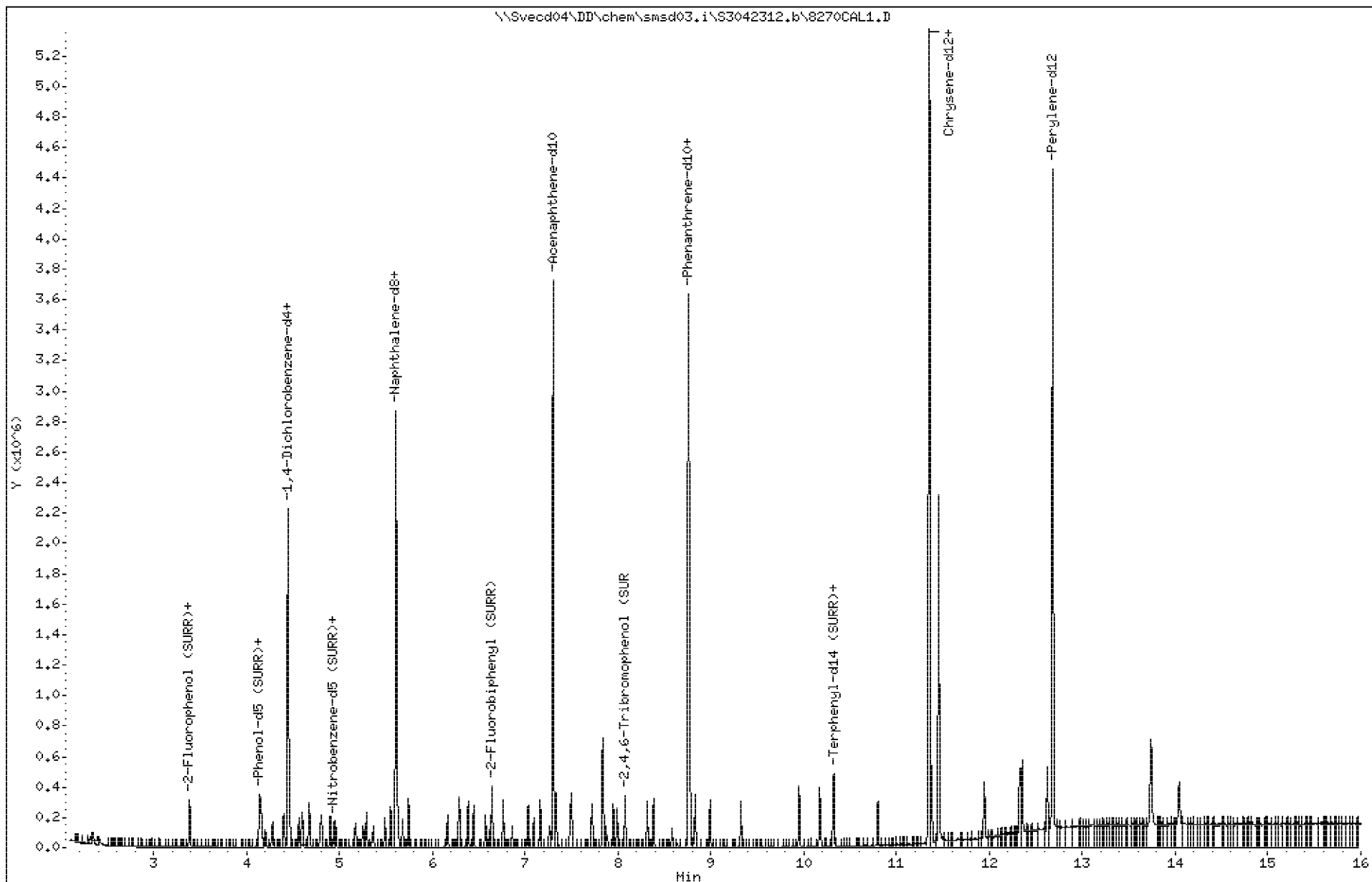
Sample Info: 45927

Purge Volume: 1000.0

Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

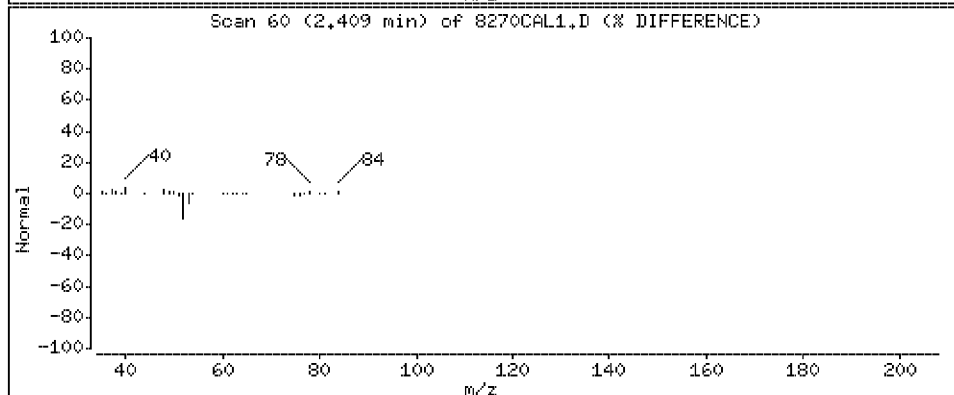
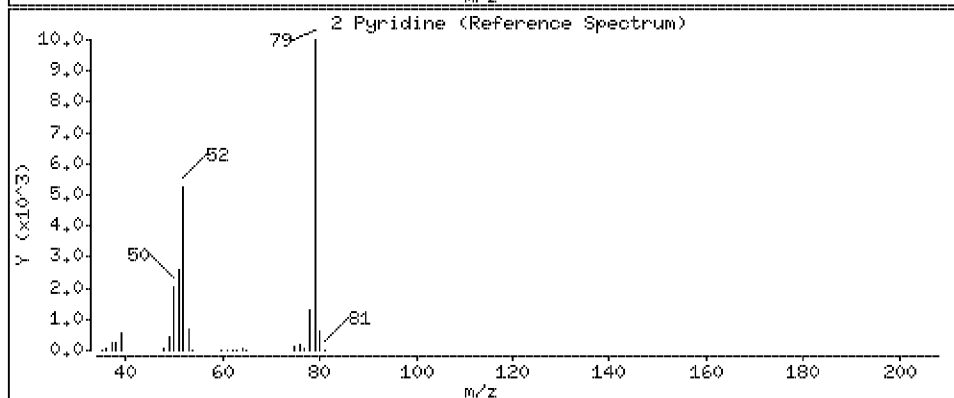
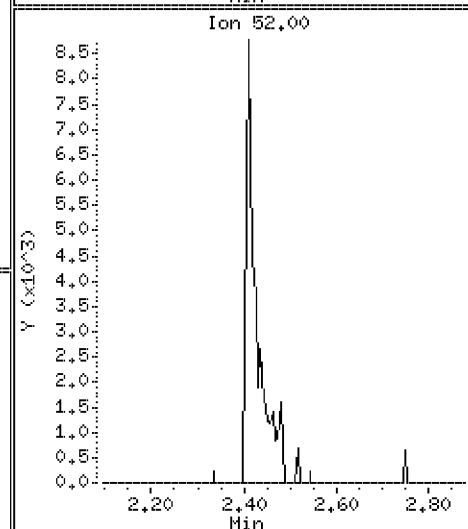
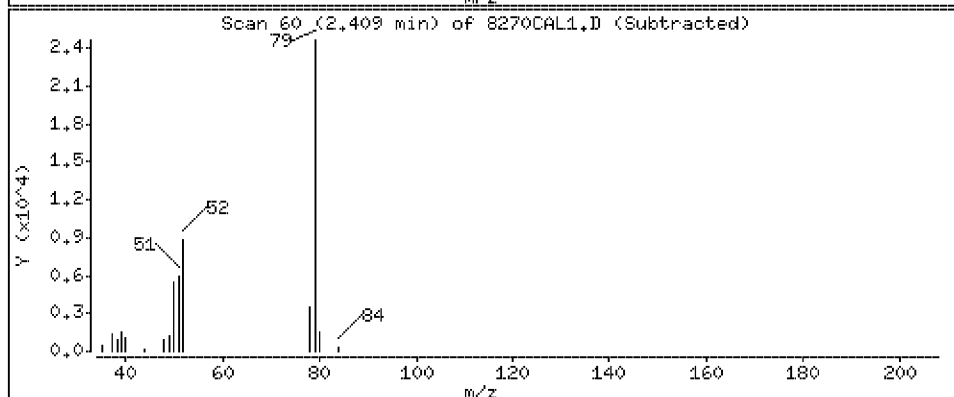
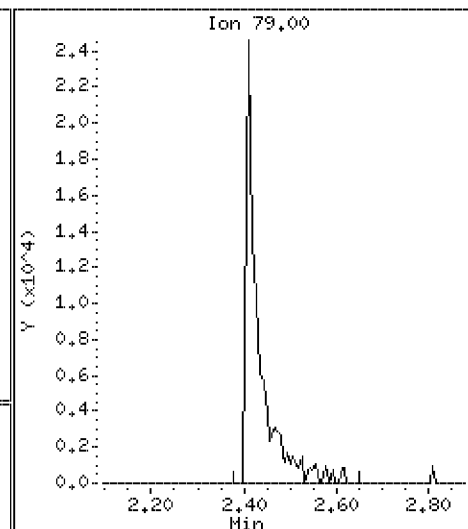
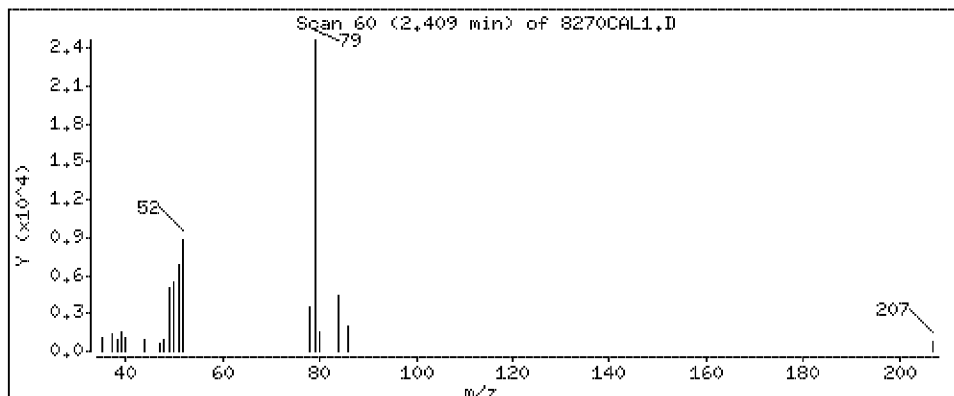
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

2 Pyridine

Concentration: 3.8 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

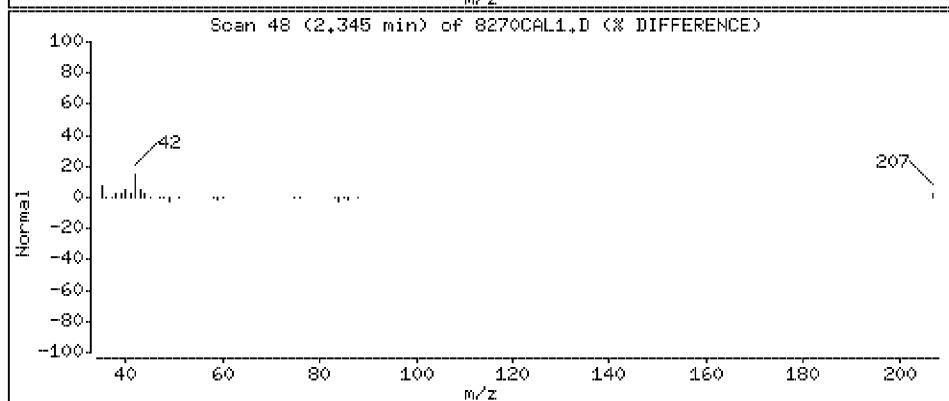
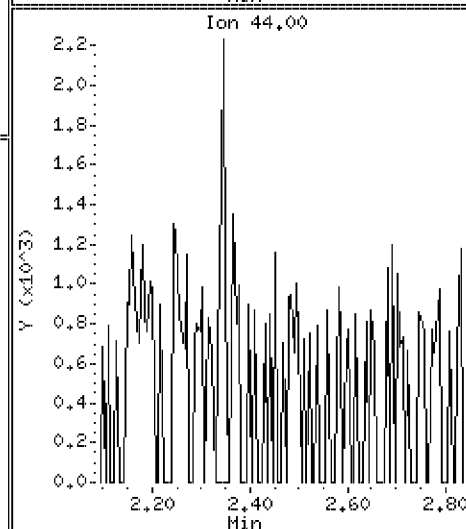
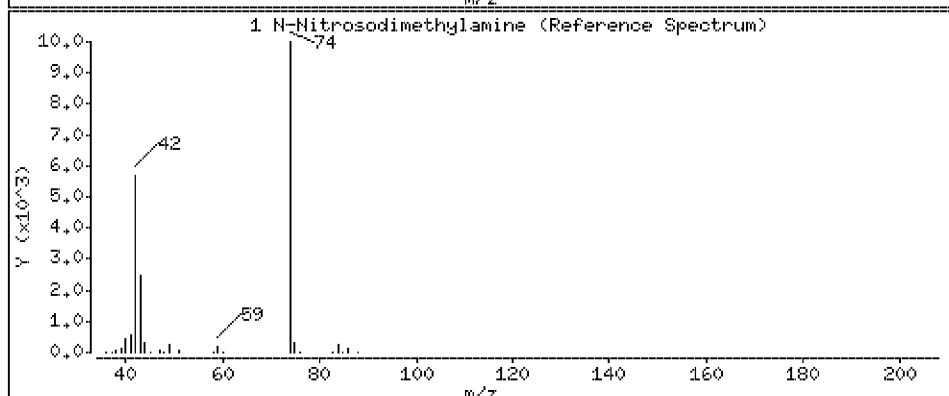
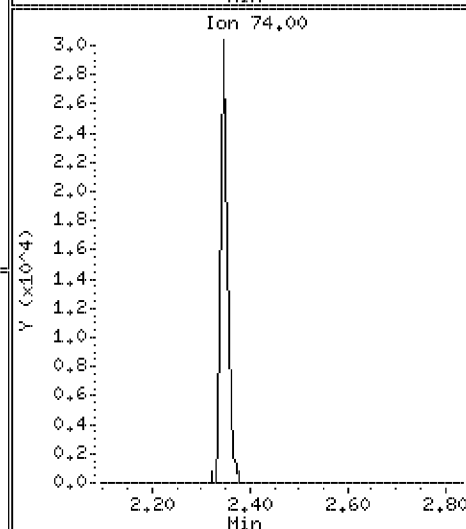
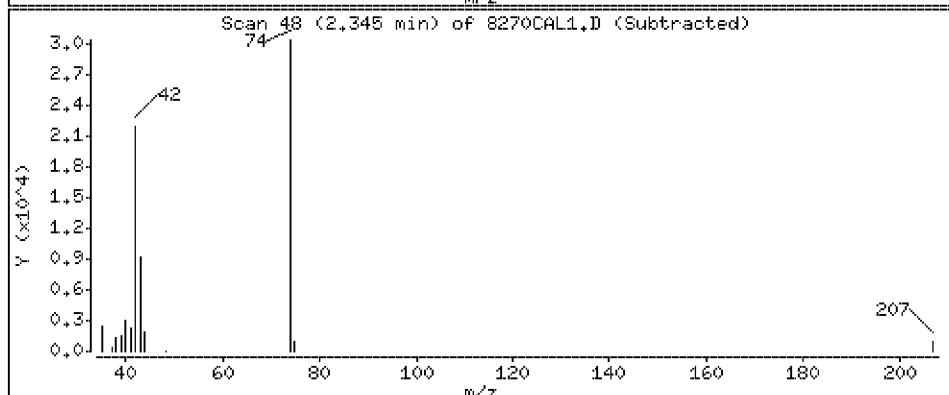
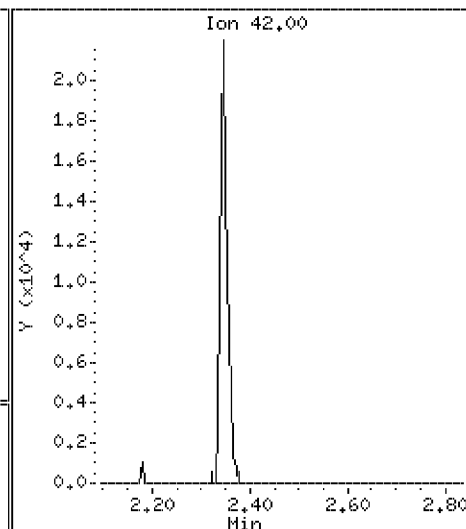
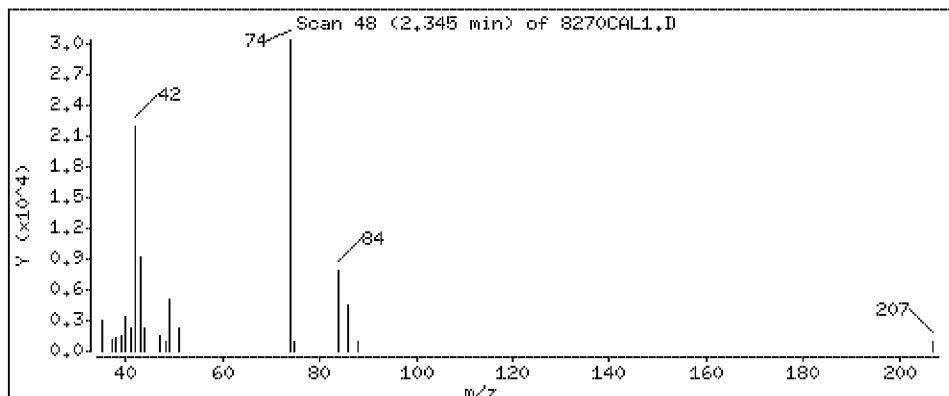
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

1 N-Nitrosodimethylamine

Concentration: 4.0 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

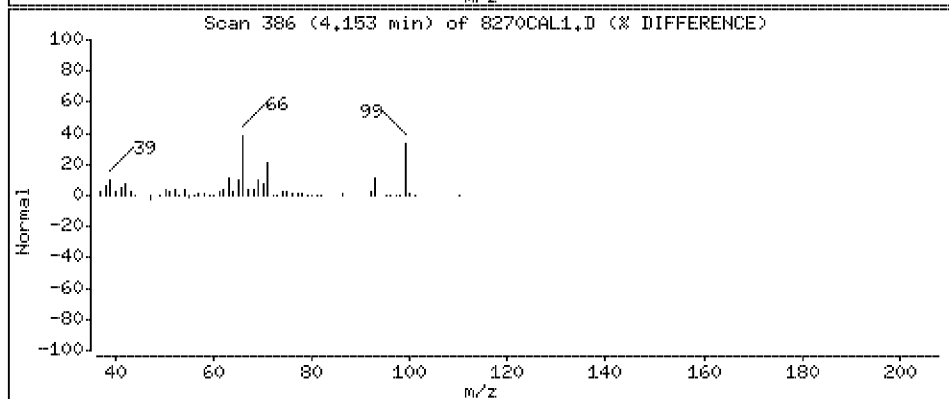
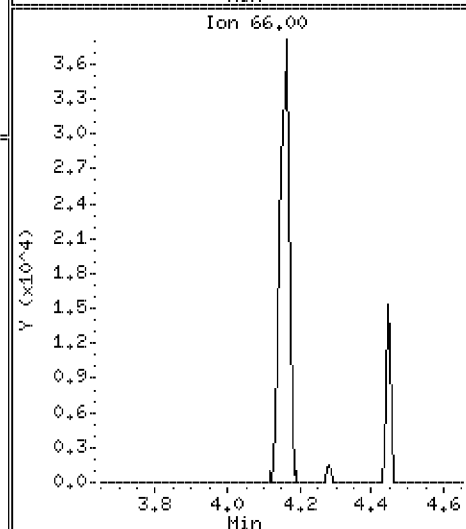
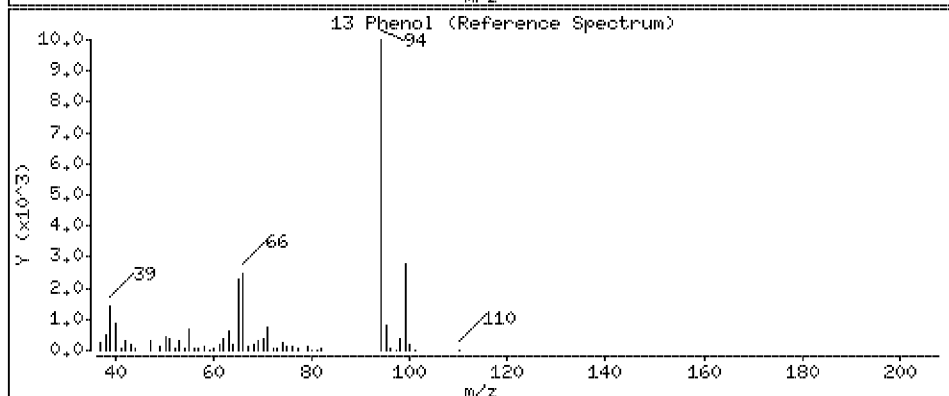
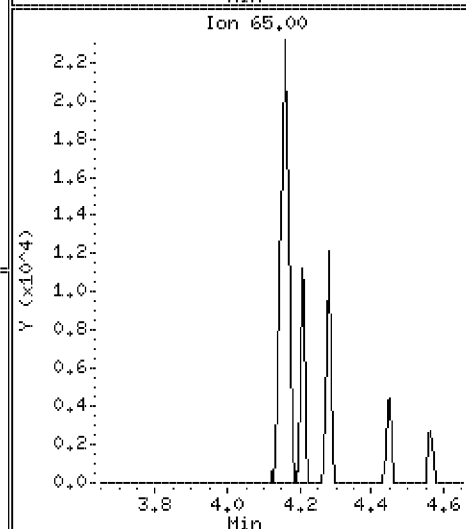
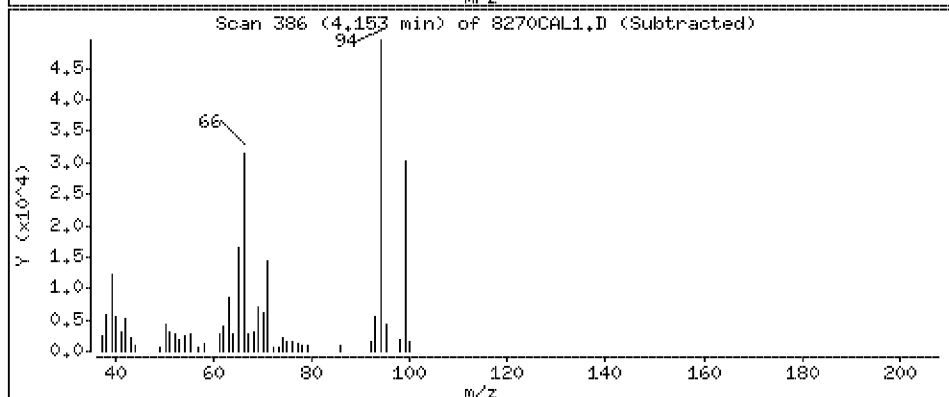
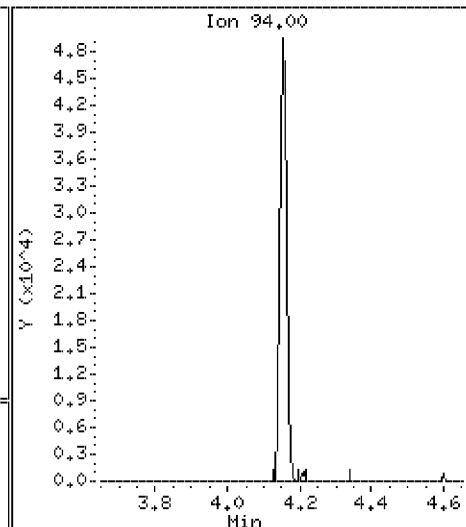
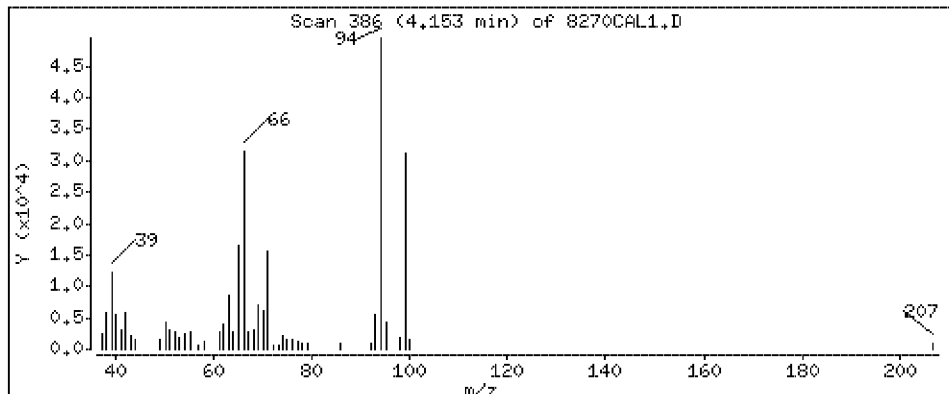
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

13 Phenol

Concentration: 3.7 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

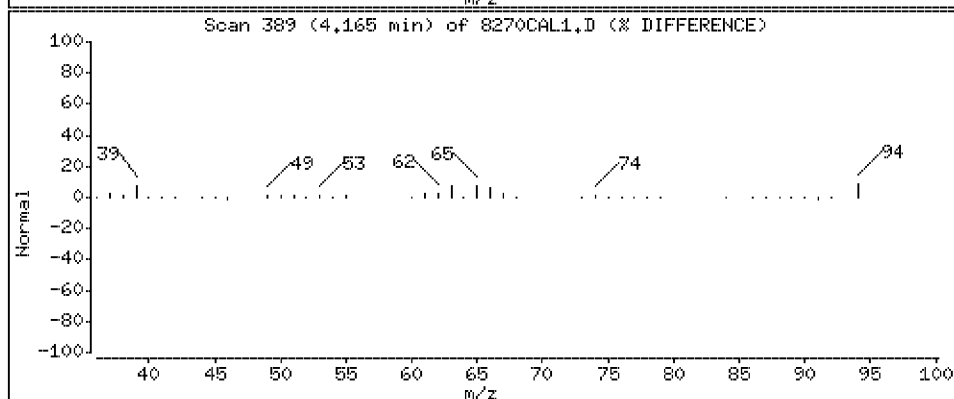
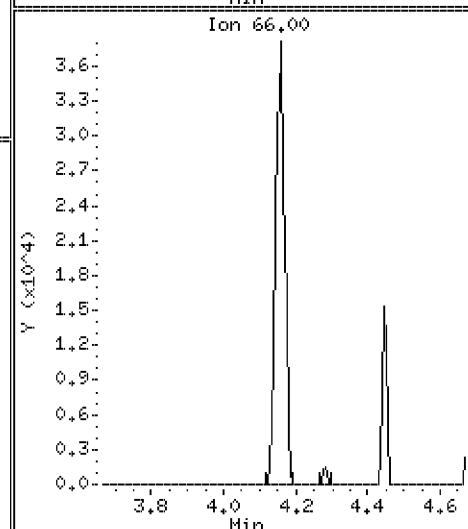
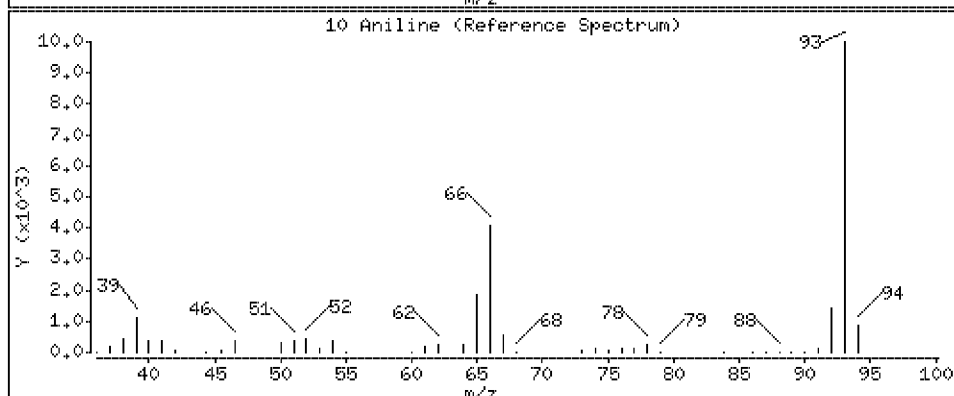
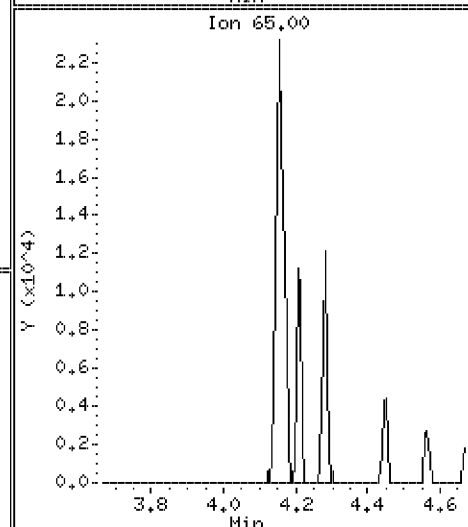
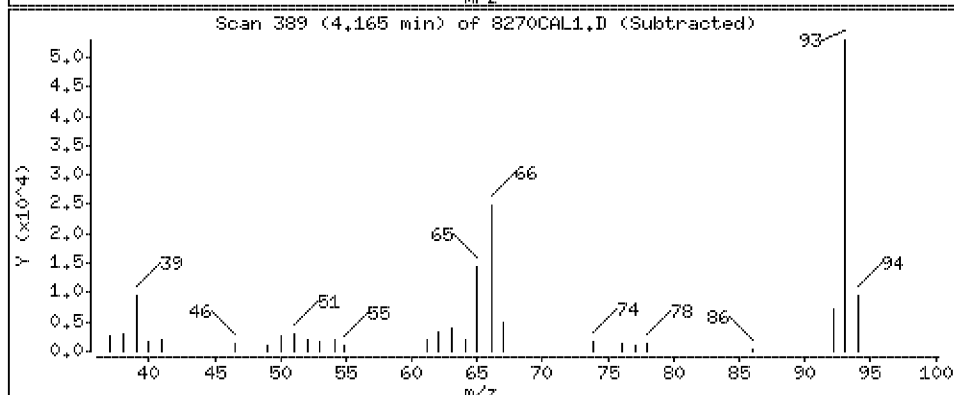
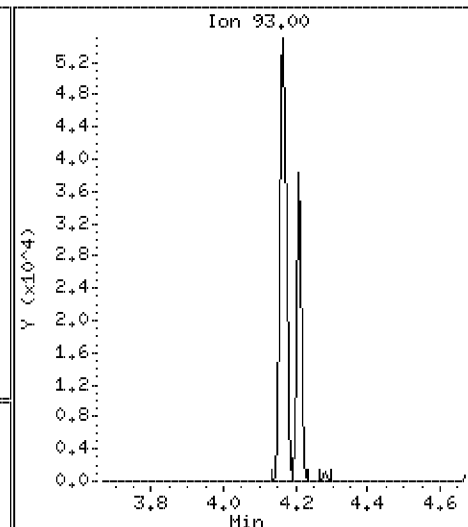
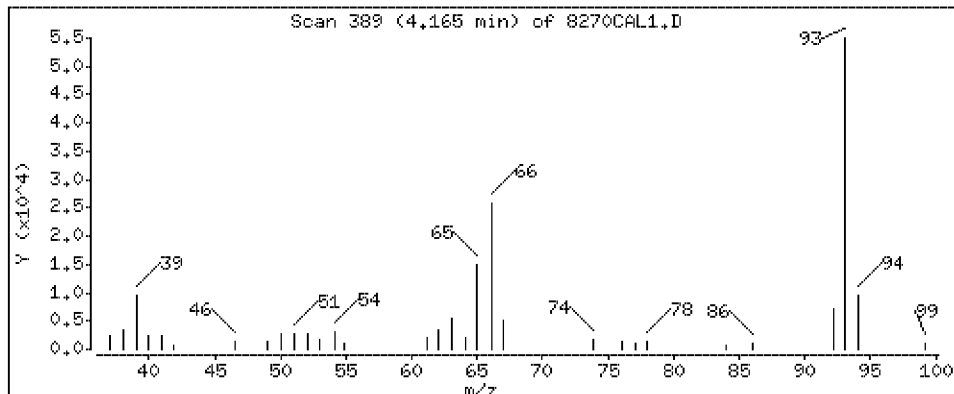
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

10 Aniline

Concentration: 3.7 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

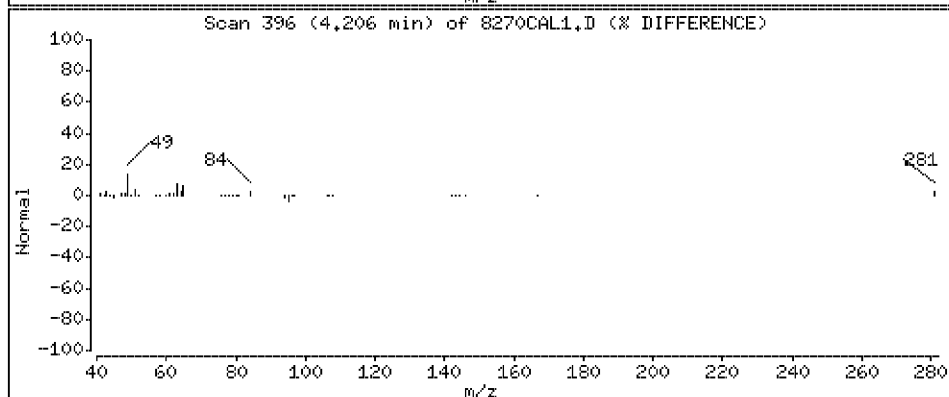
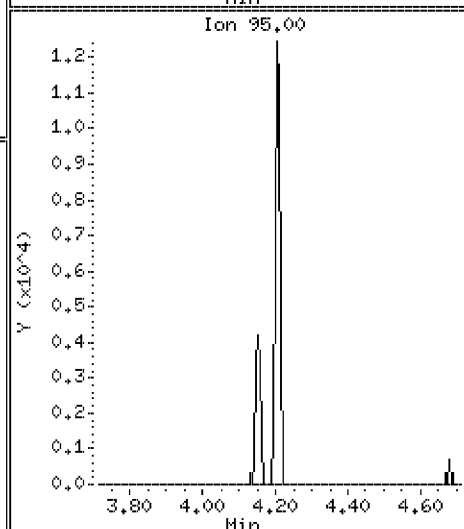
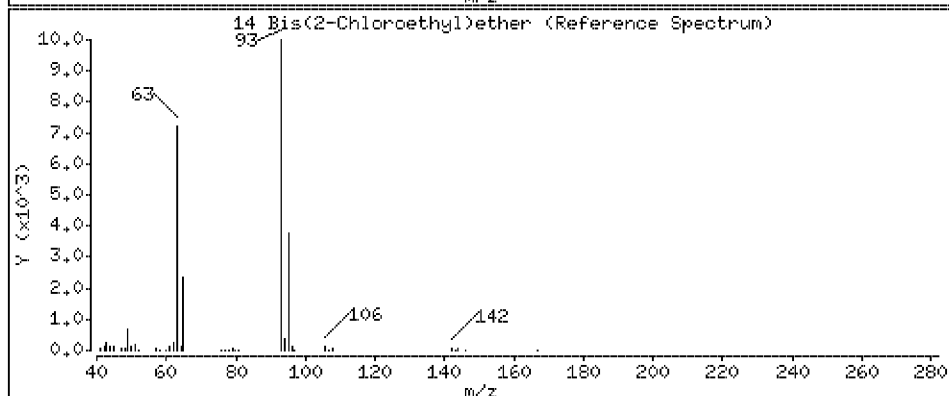
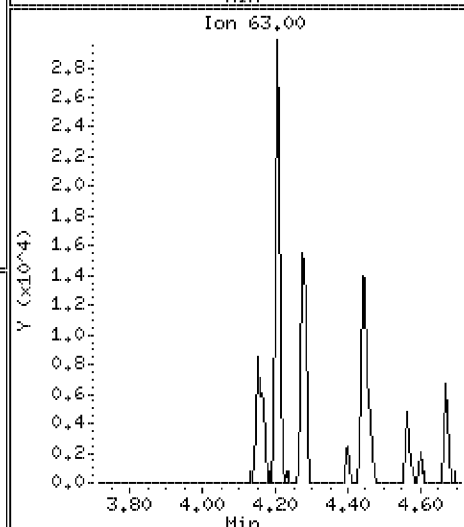
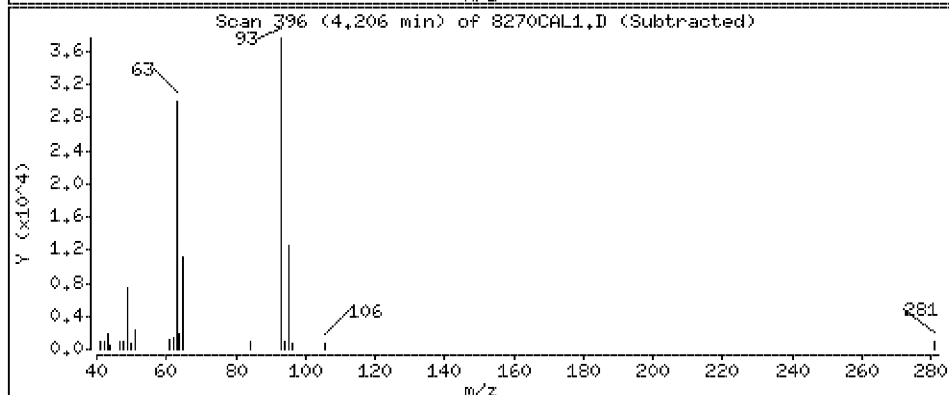
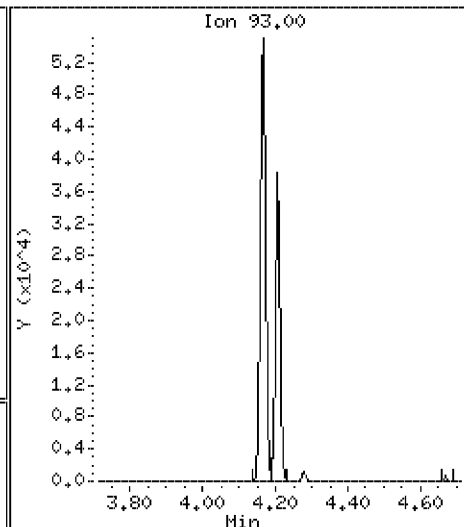
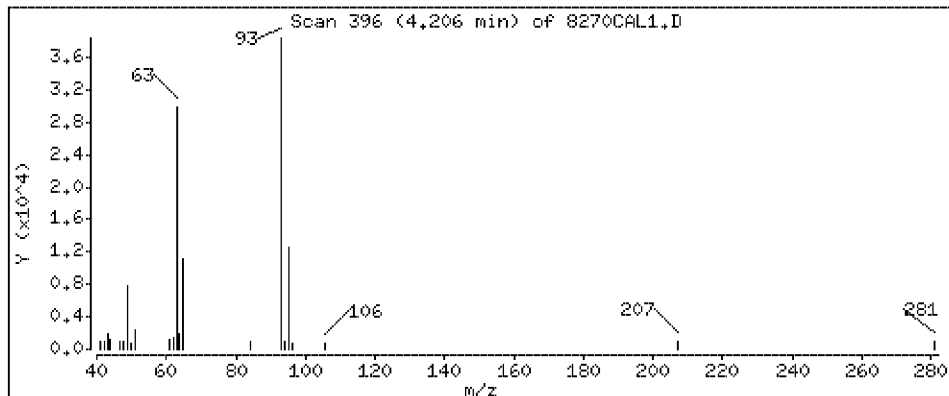
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

14 Bis(2-Chloroethyl)ether

Concentration: 3.8 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

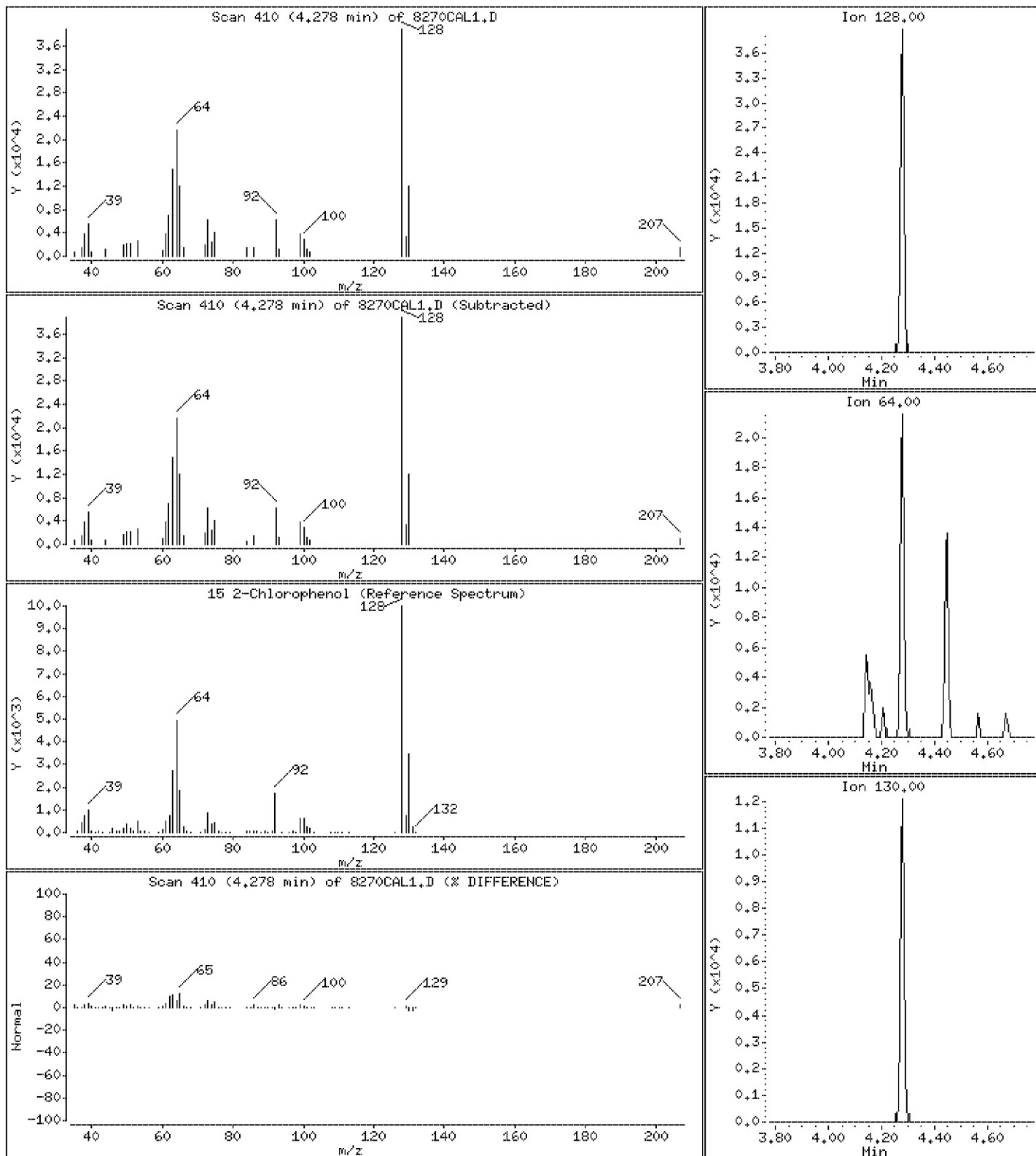
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

15 2-Chlorophenol

Concentration: 3.9 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

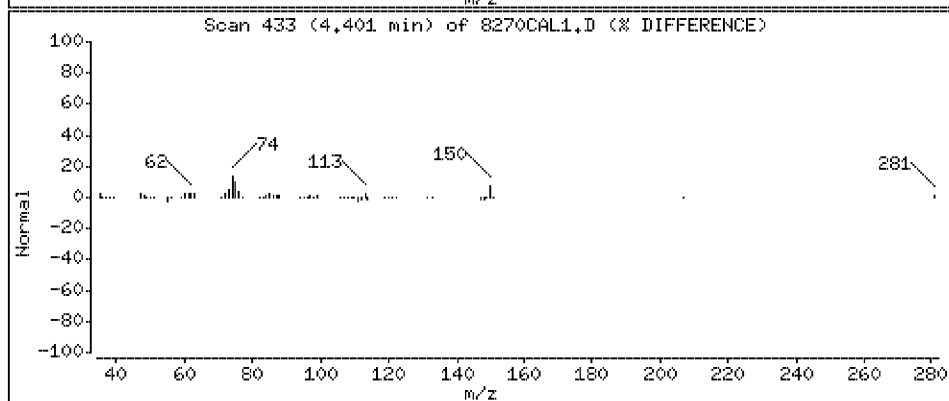
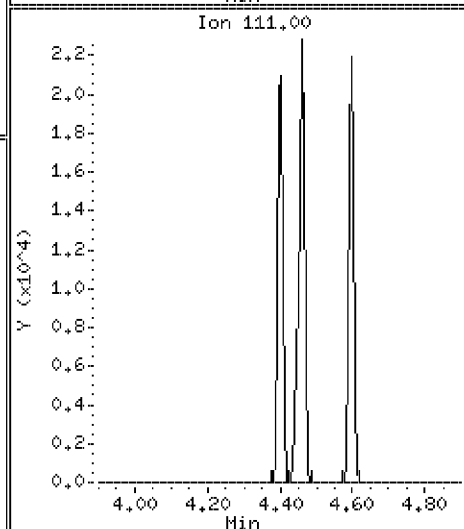
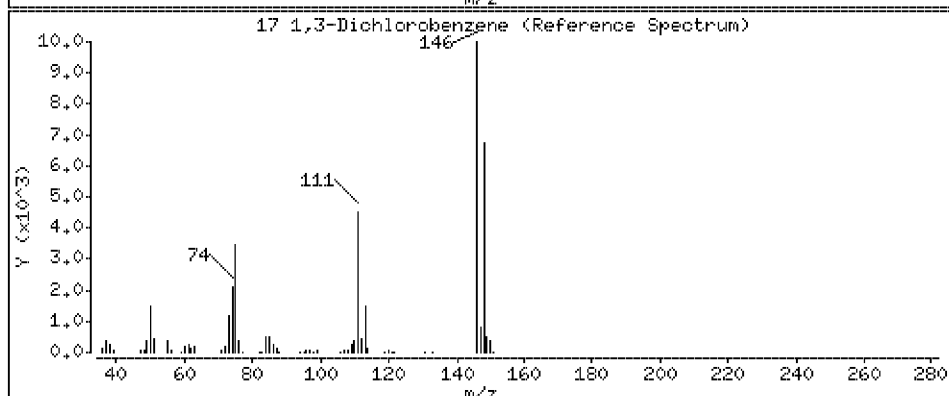
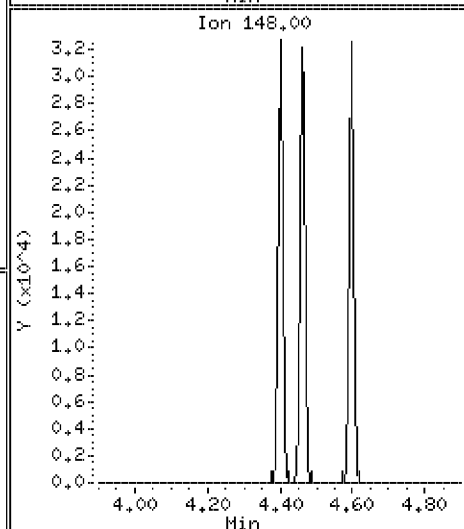
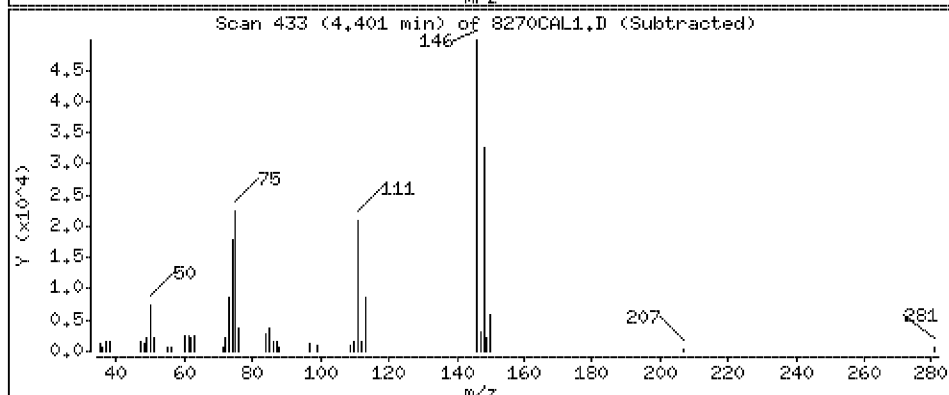
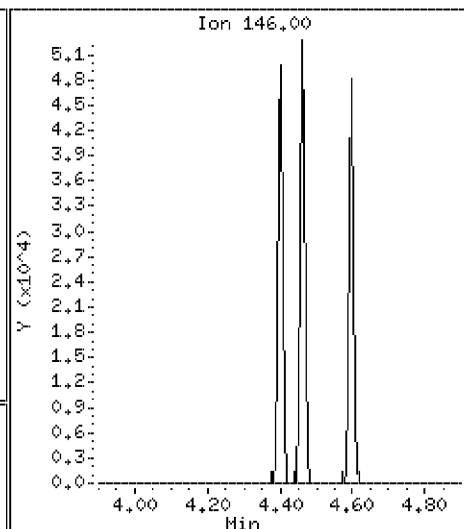
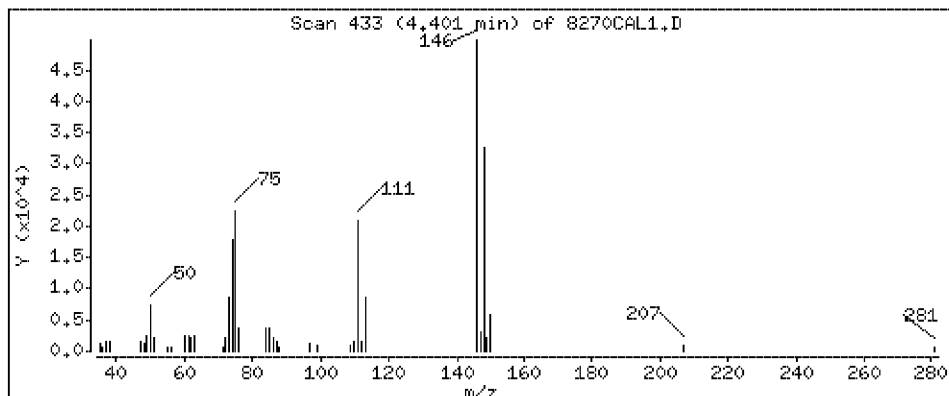
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

17 1,3-Dichlorobenzene

Concentration: 3.9 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

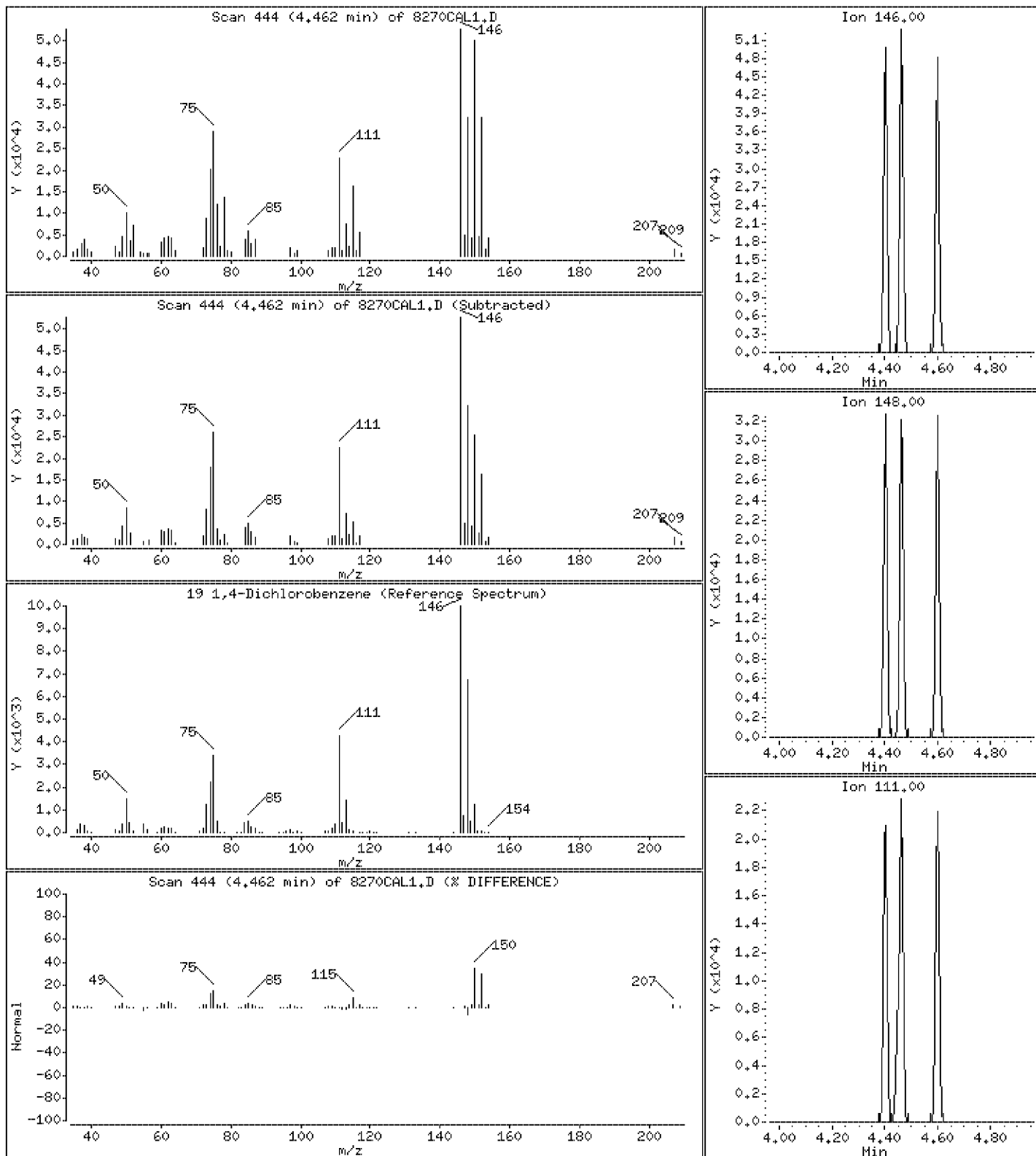
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

19 1,4-Dichlorobenzene

Concentration: 4.0 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

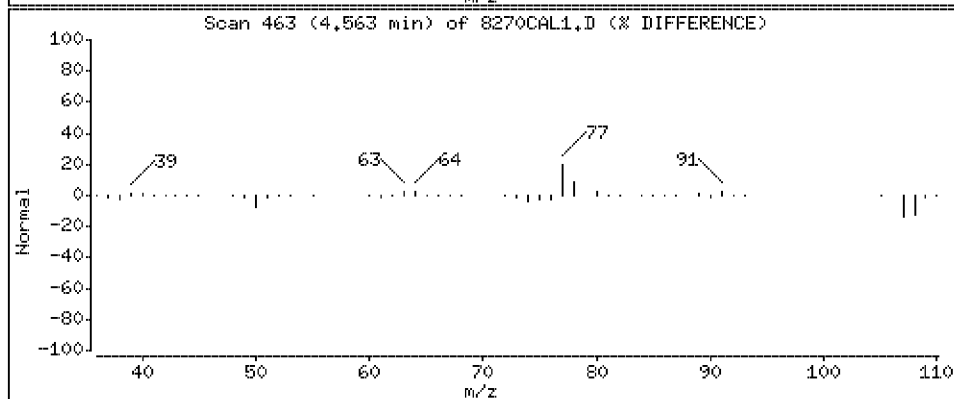
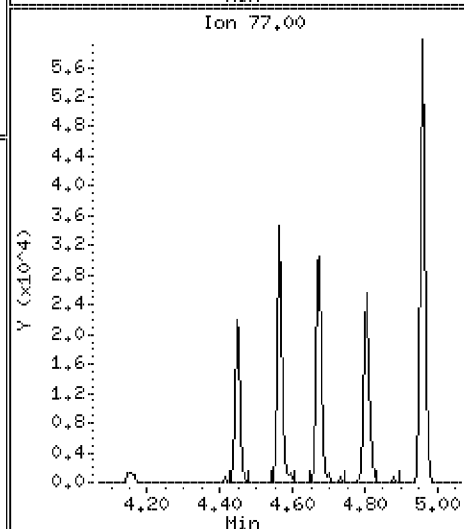
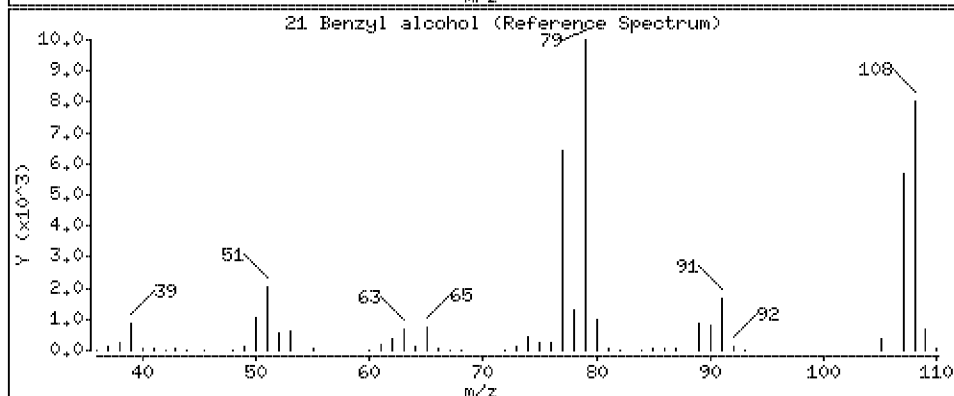
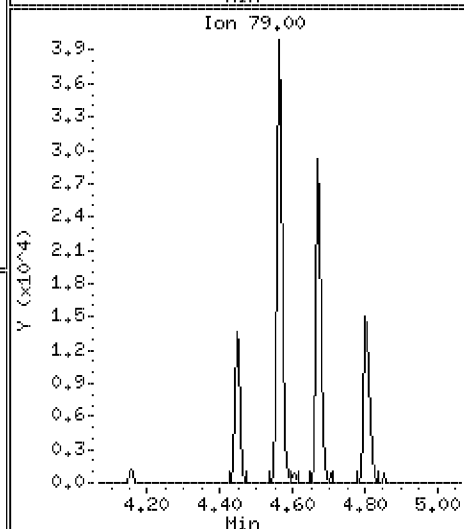
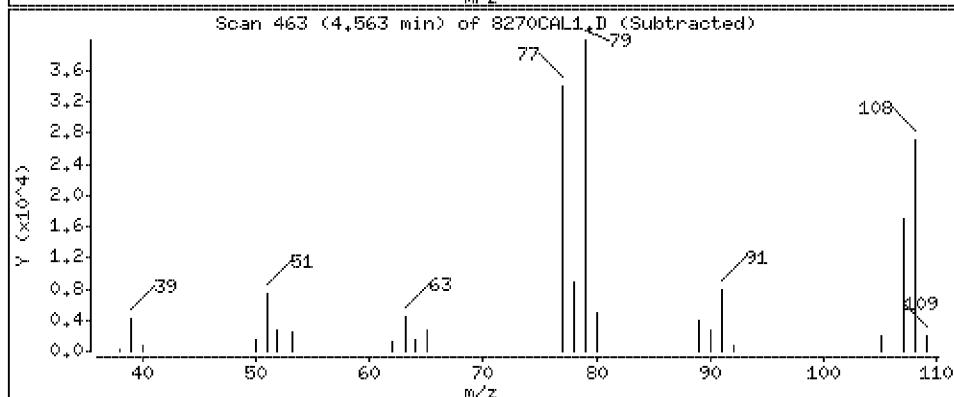
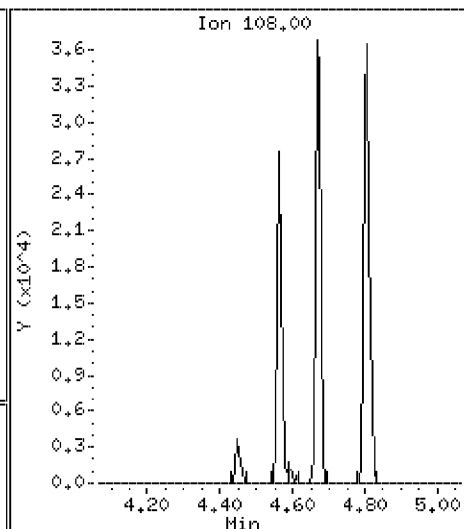
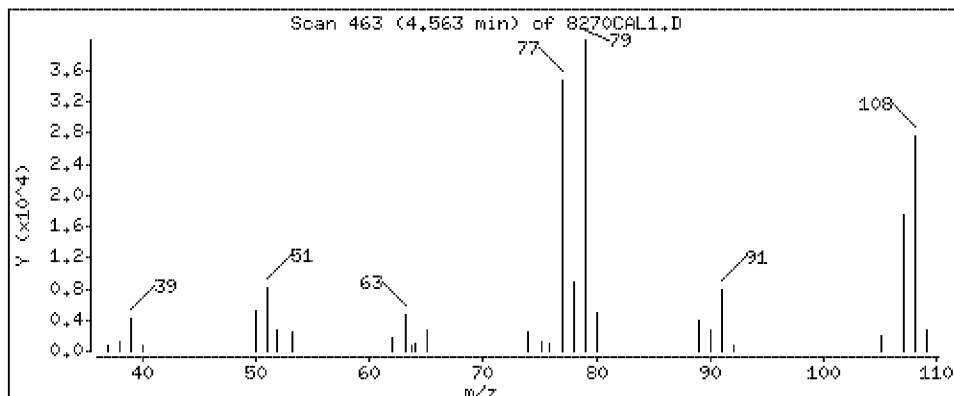
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

21 Benzyl alcohol

Concentration: 3.7 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

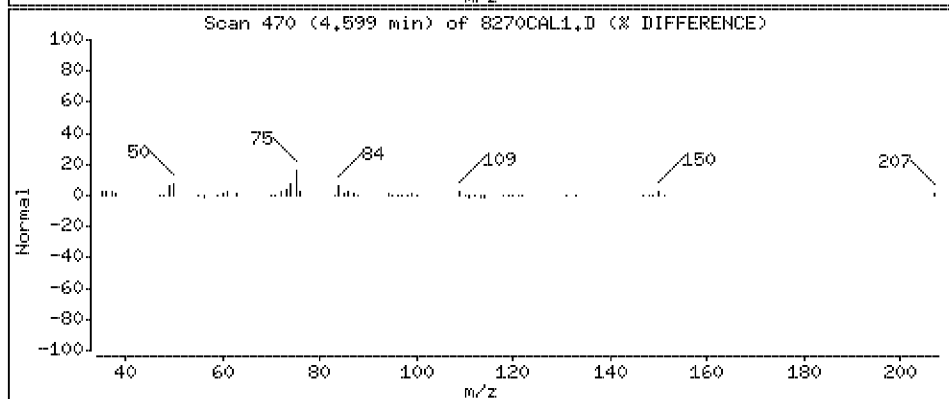
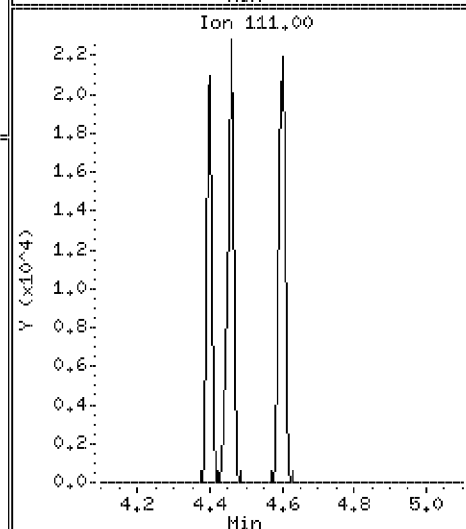
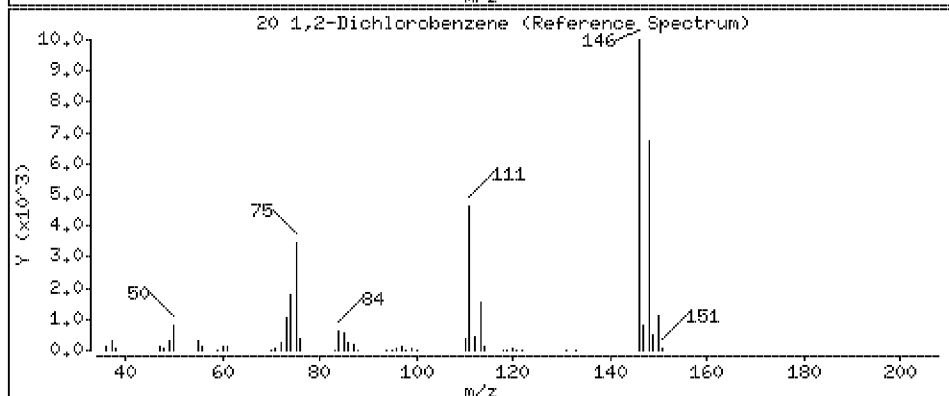
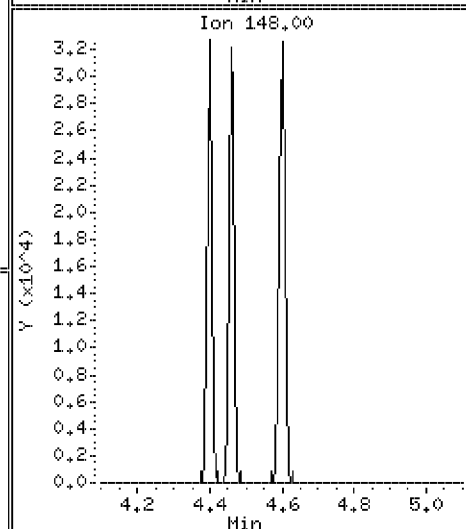
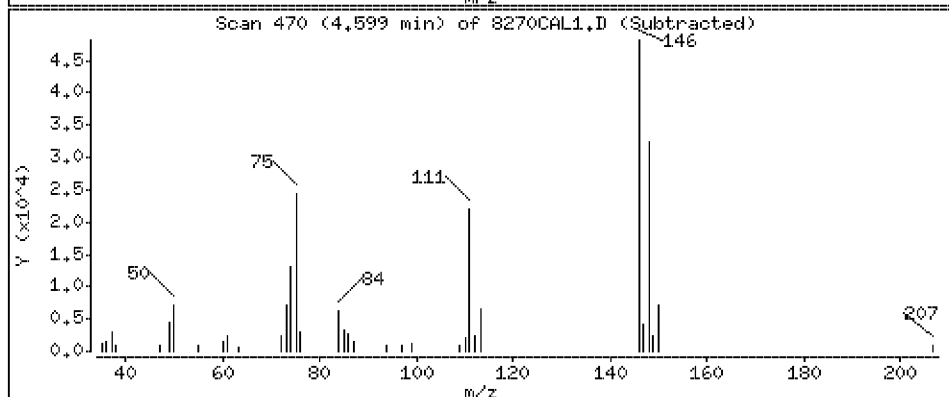
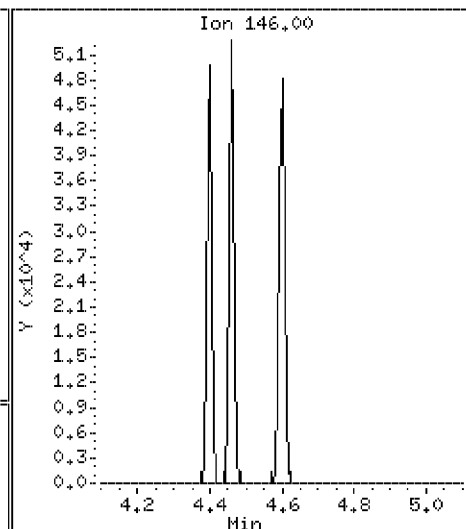
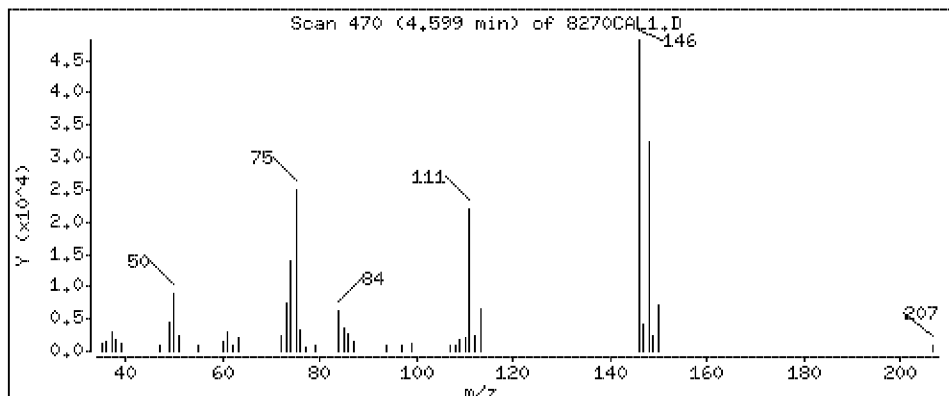
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

20 1,2-Dichlorobenzene

Concentration: 3.8 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

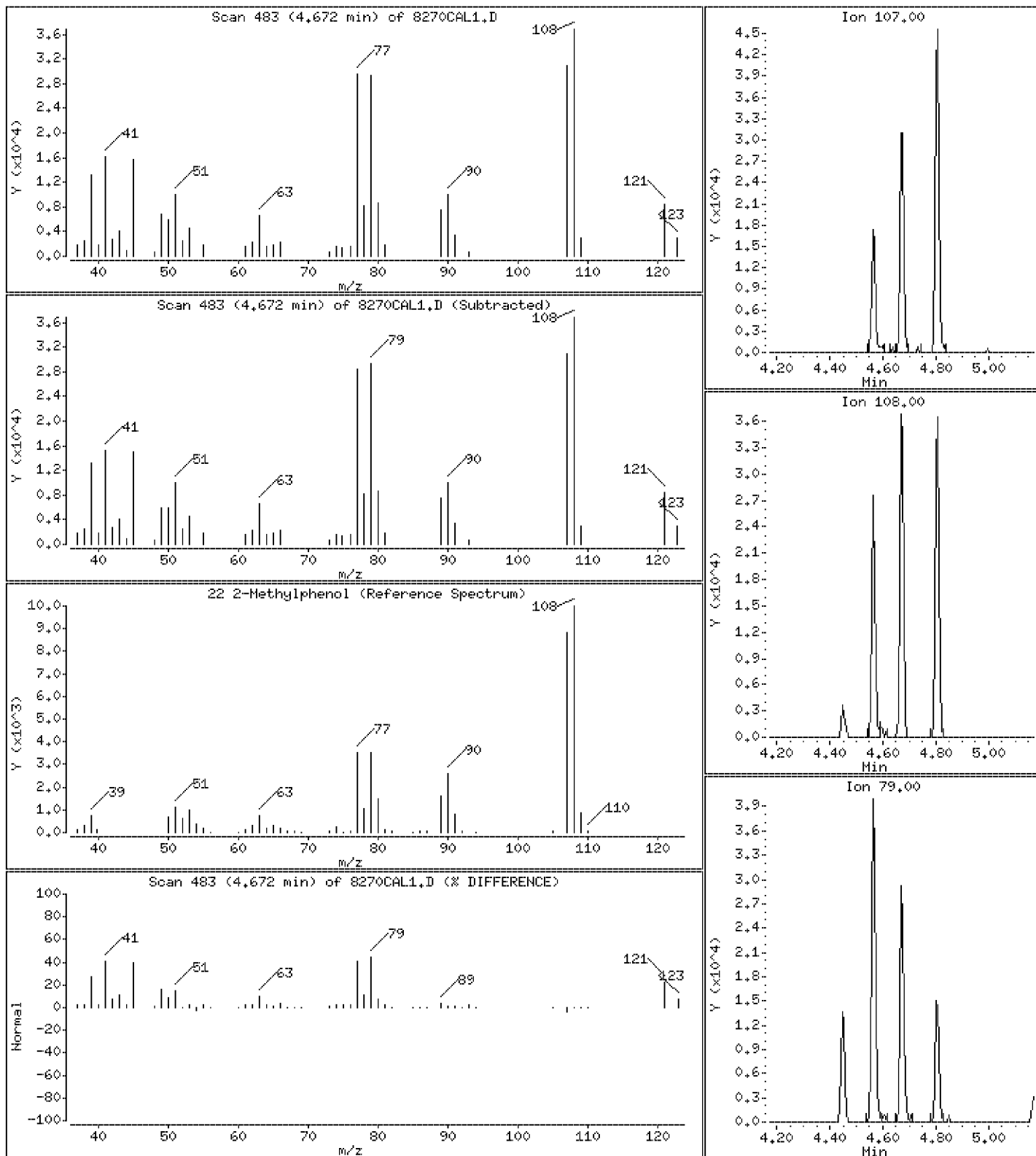
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

22 2-Methylphenol

Concentration: 3.6 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

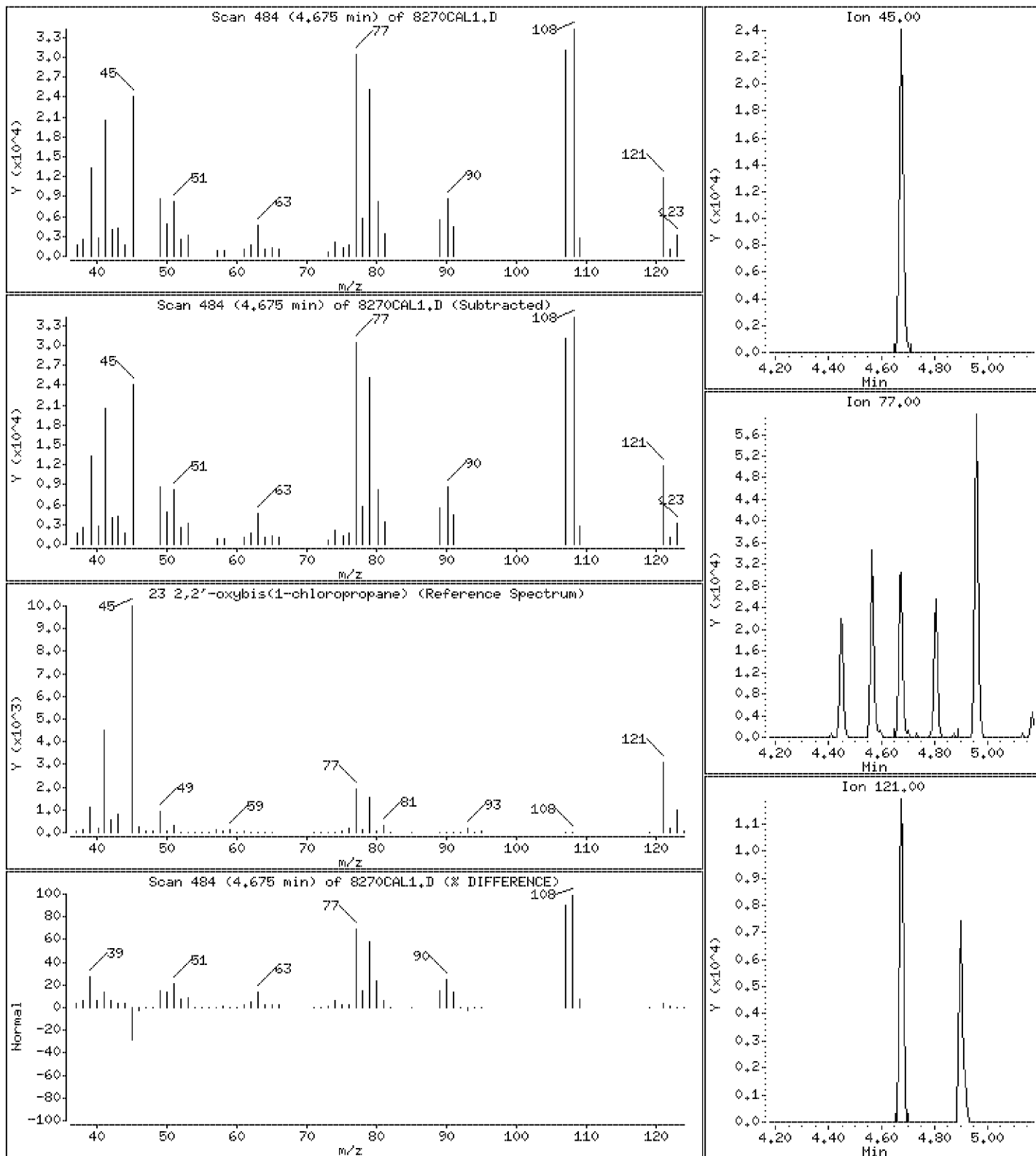
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

23 2,2'-oxybis(1-chloropropane)

Concentration: 4.0 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

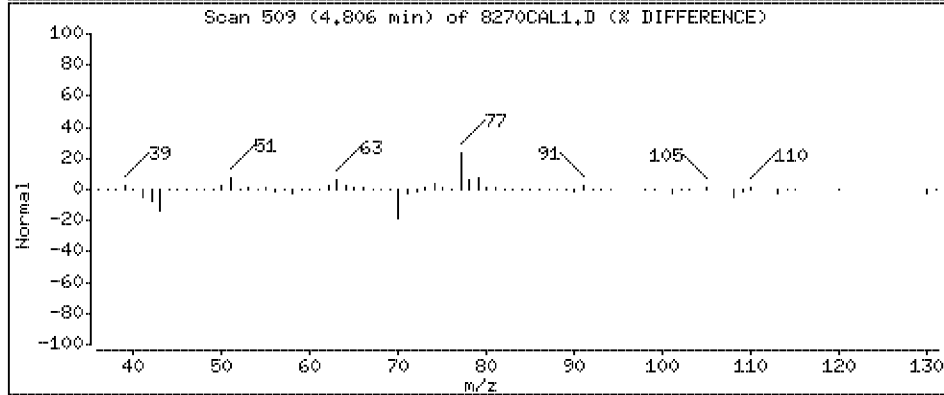
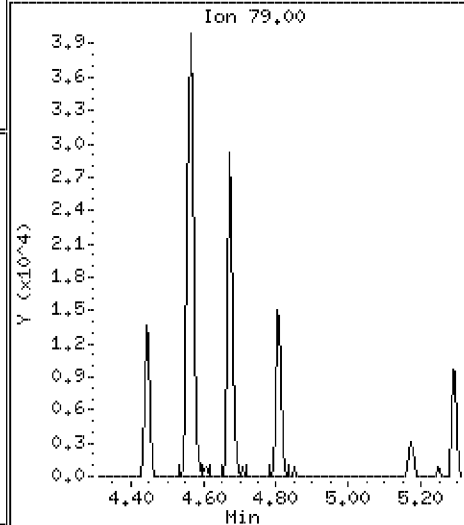
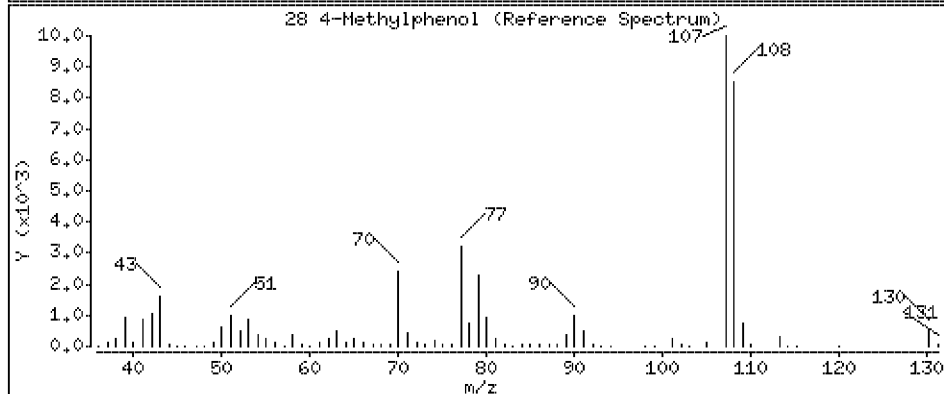
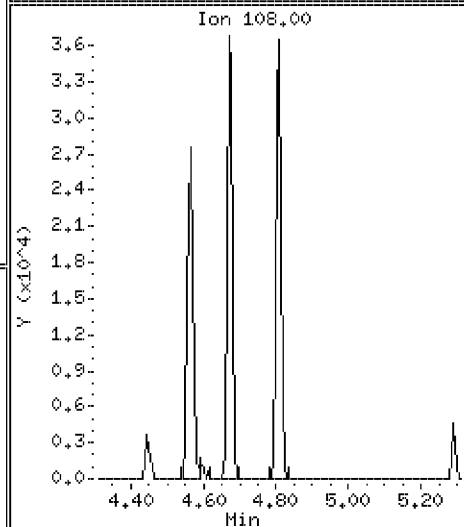
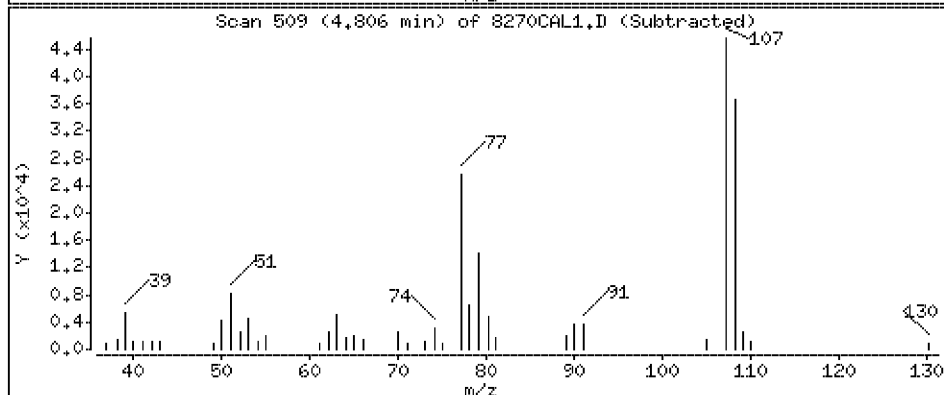
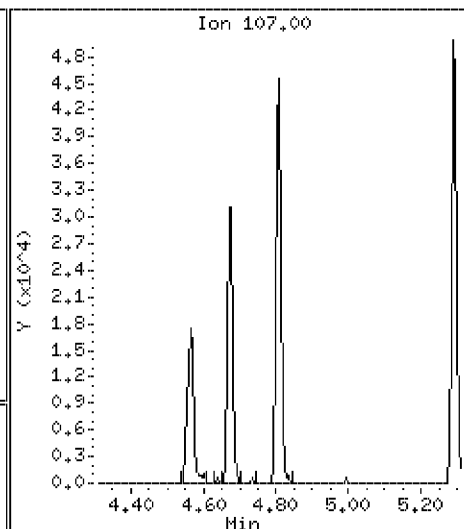
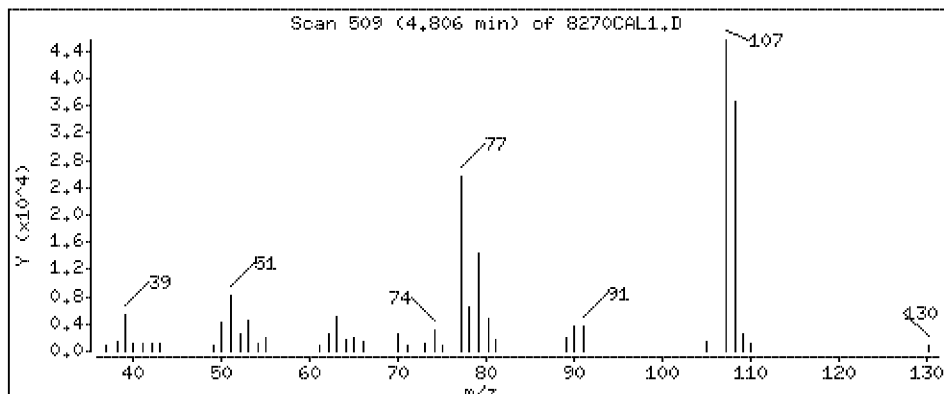
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

28 4-Methylphenol

Concentration: 3.6 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

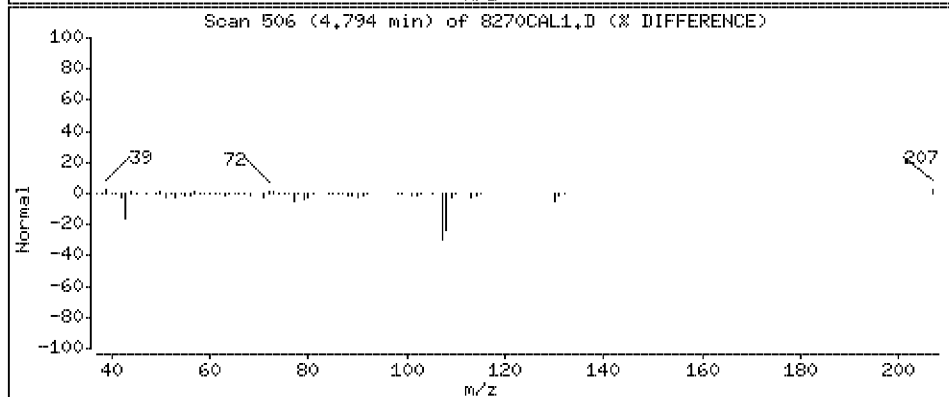
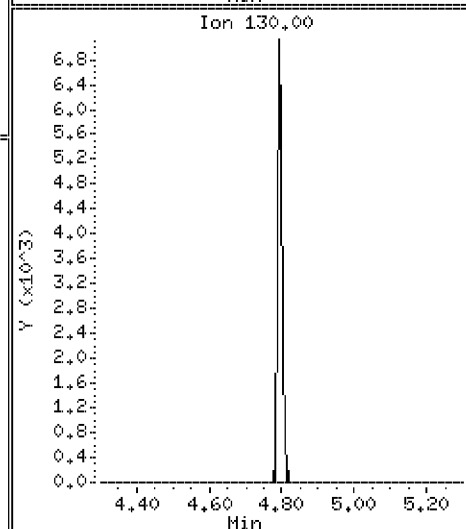
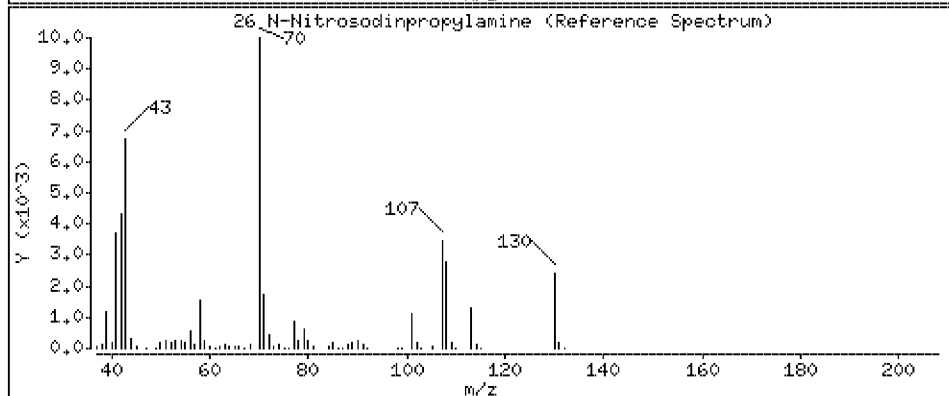
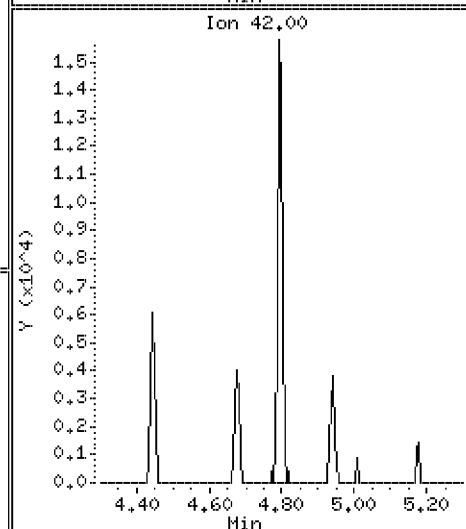
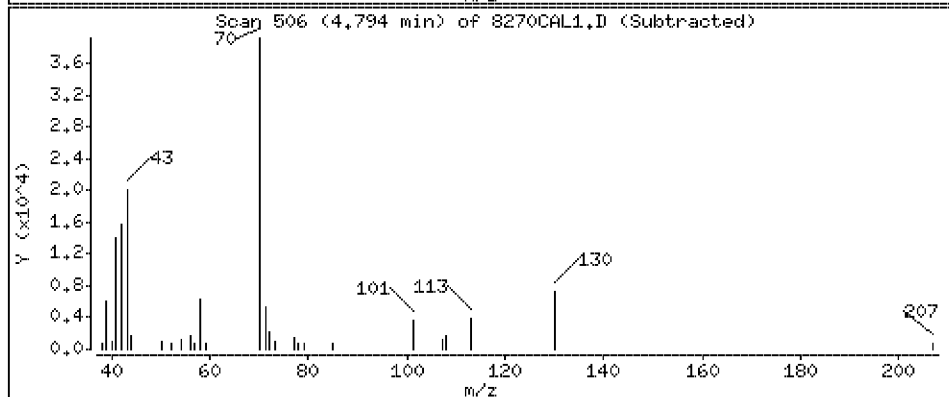
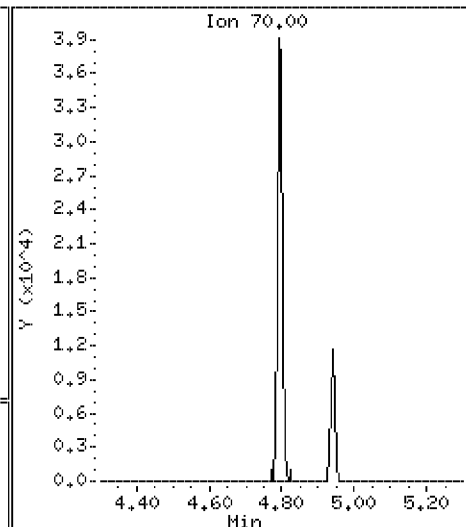
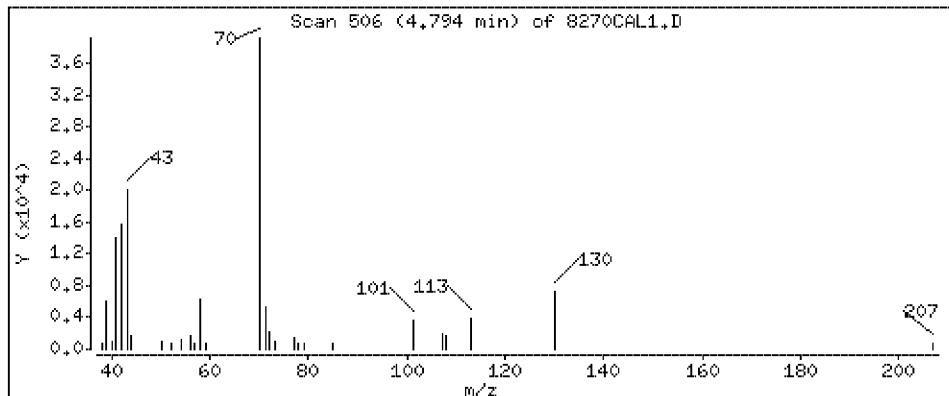
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

26 N-Nitrosodipropylamine

Concentration: 3.8 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

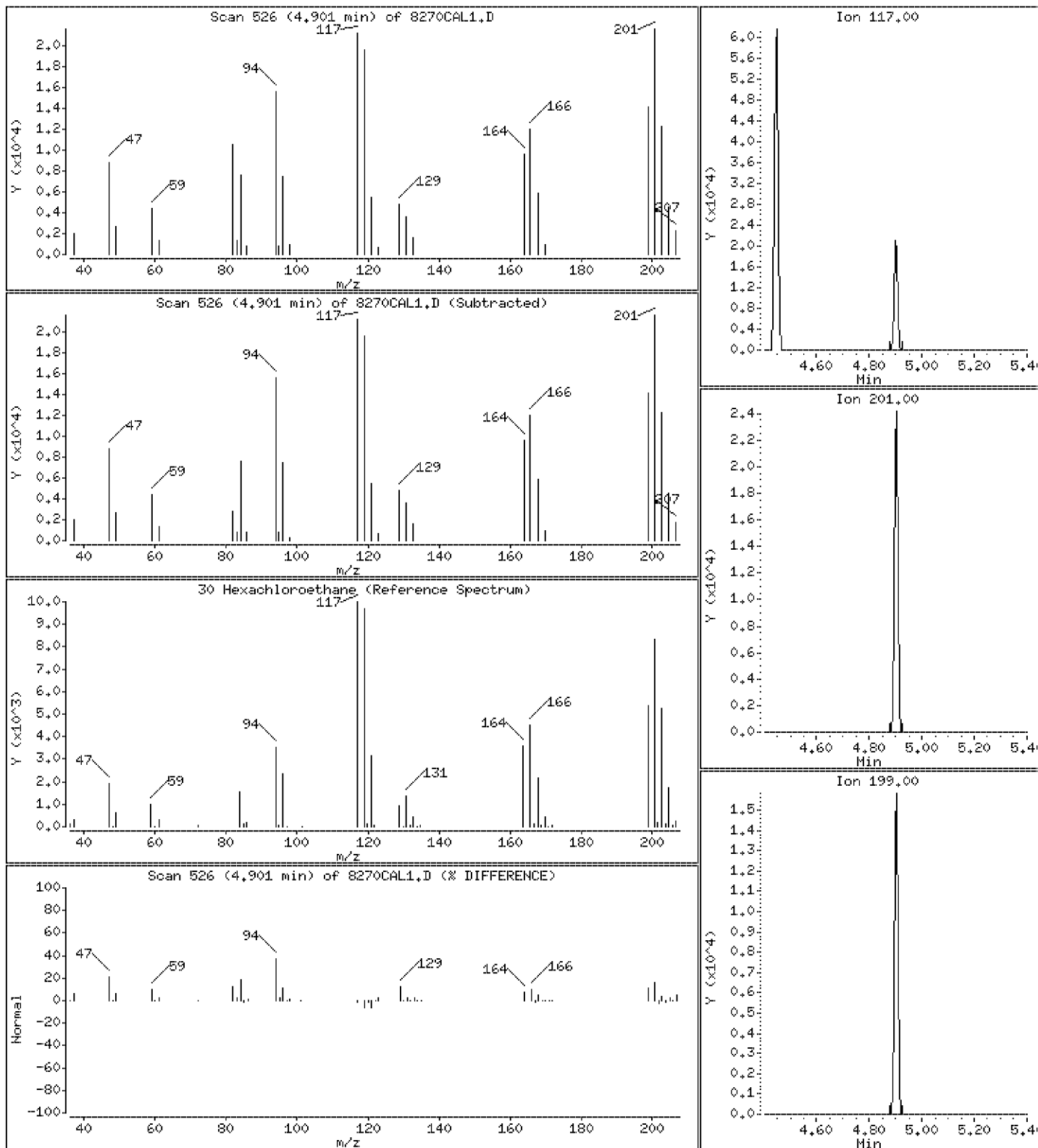
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

30 Hexachloroethane

Concentration: 3.9 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

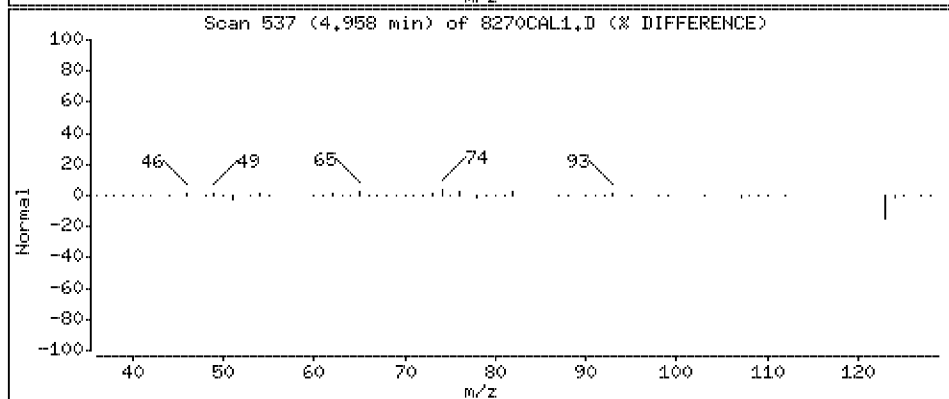
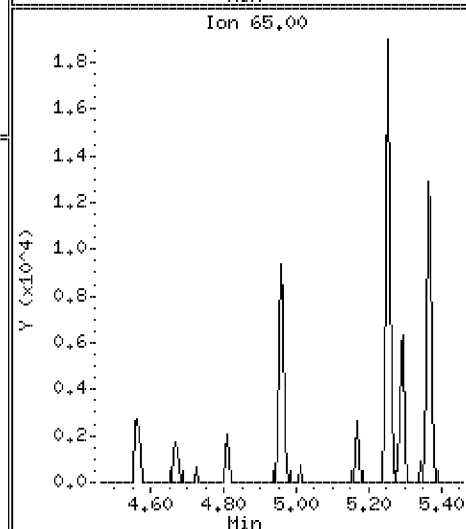
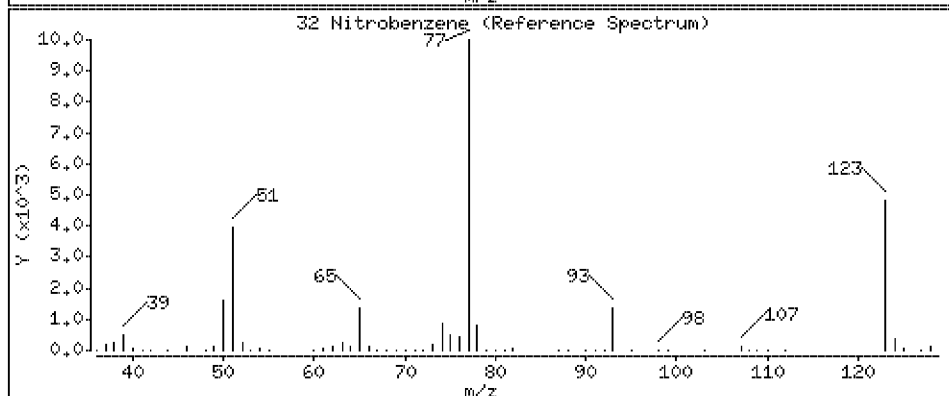
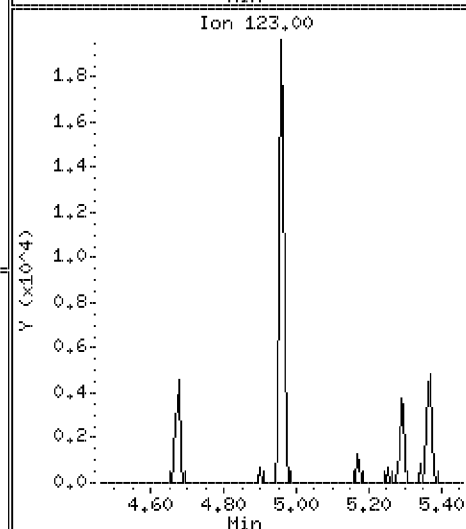
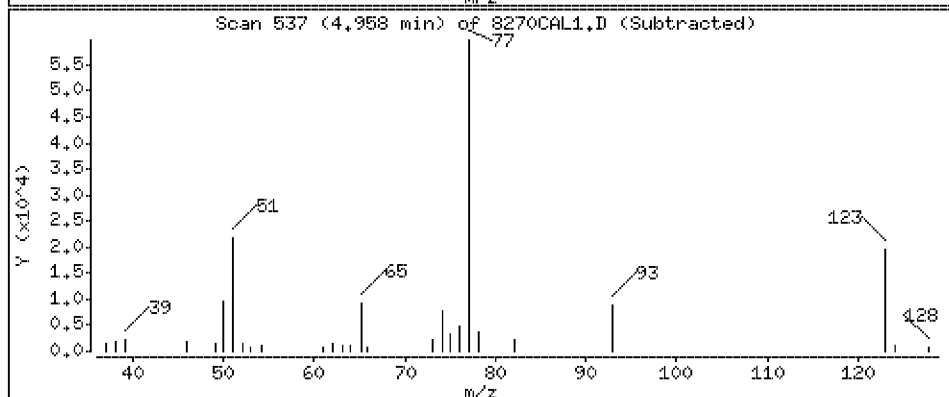
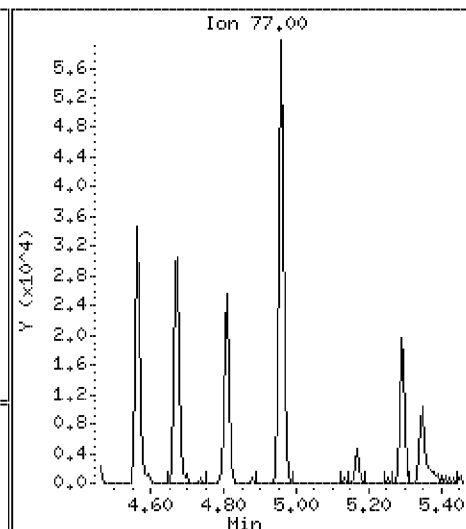
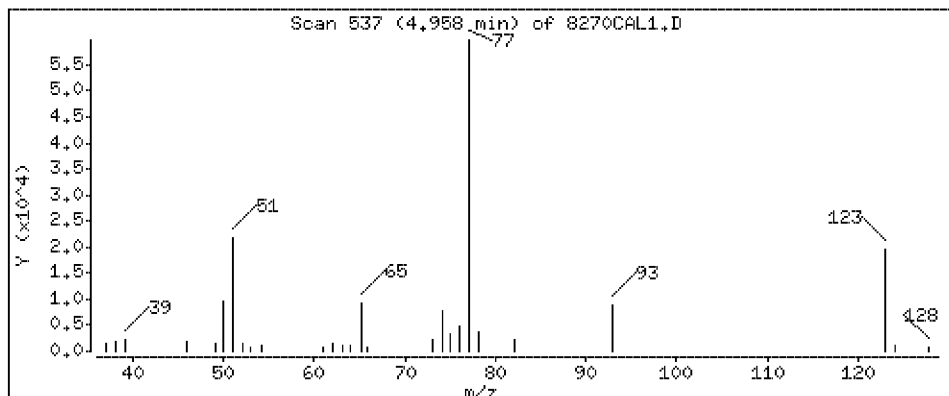
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

32 Nitrobenzene

Concentration: 4.0 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

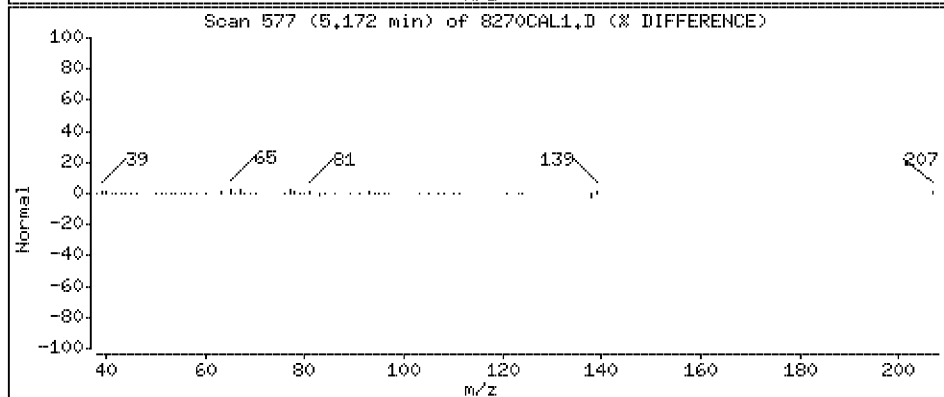
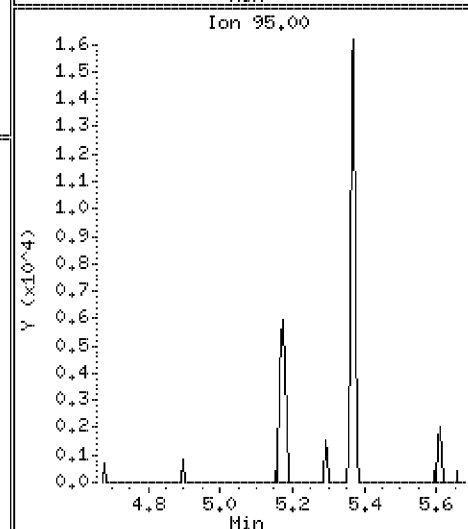
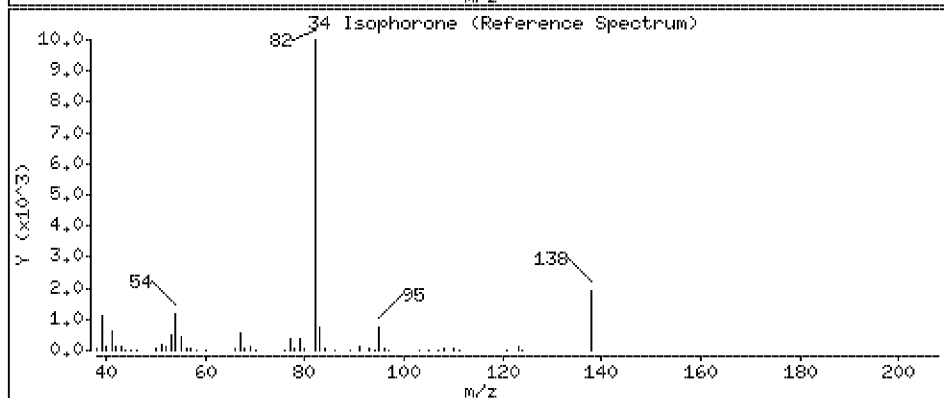
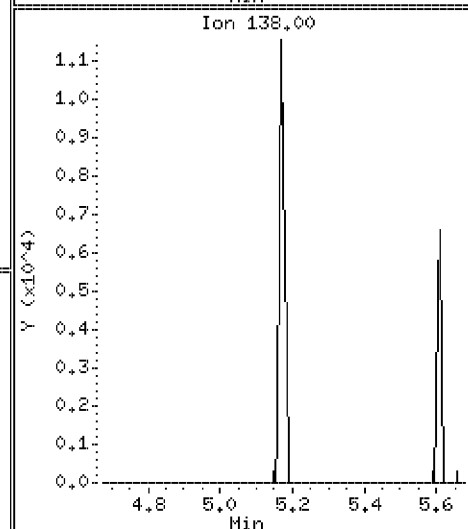
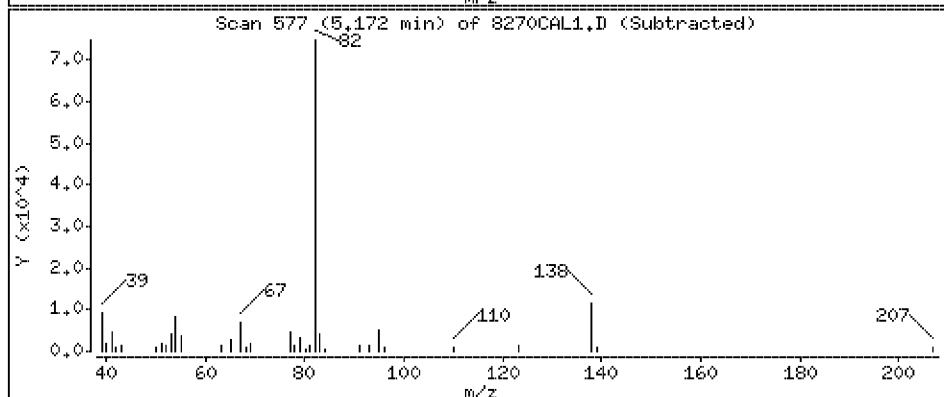
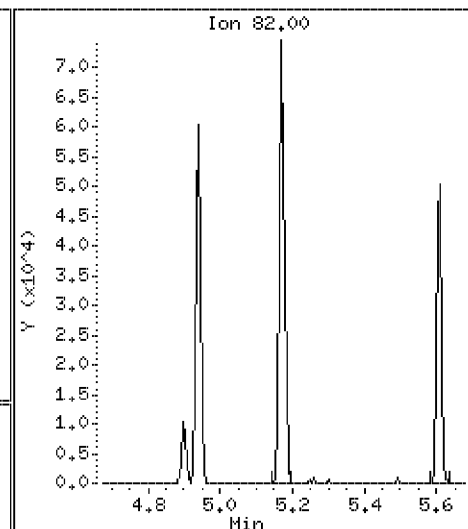
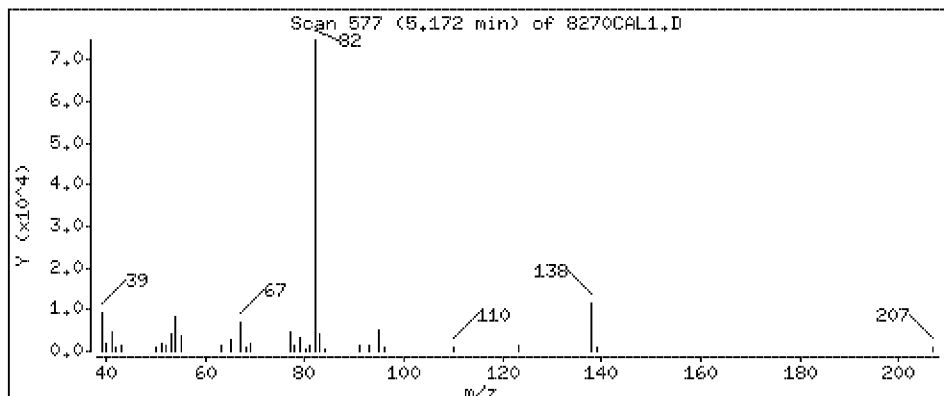
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

34 Isophorone

Concentration: 4.2 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

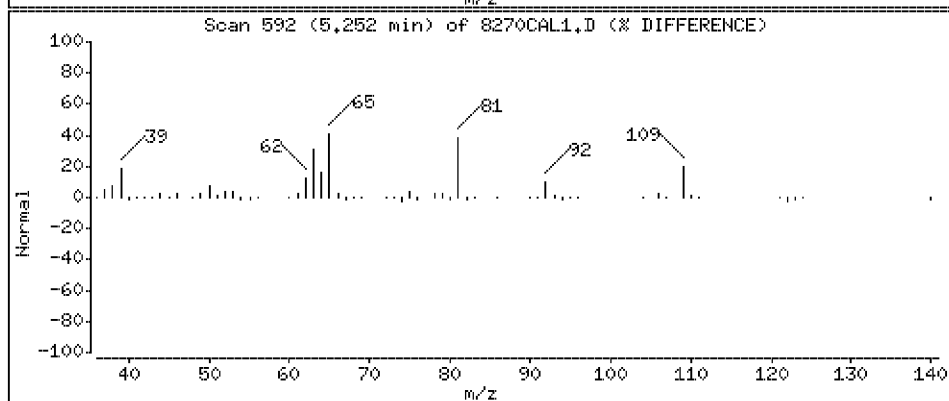
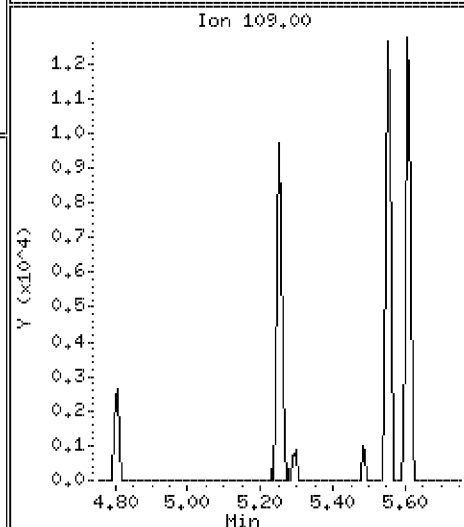
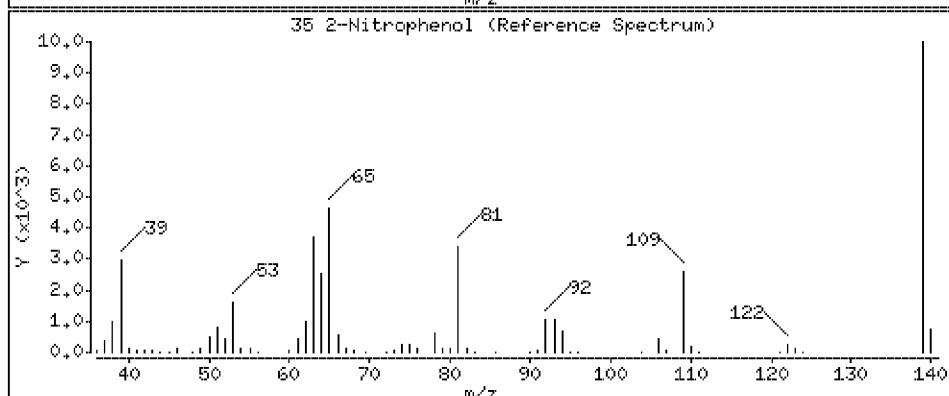
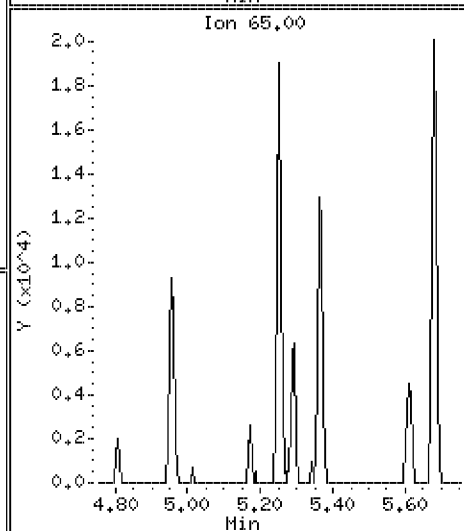
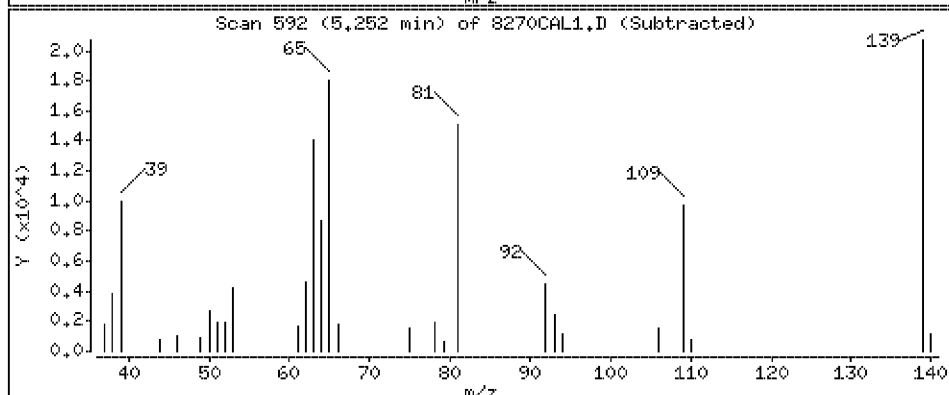
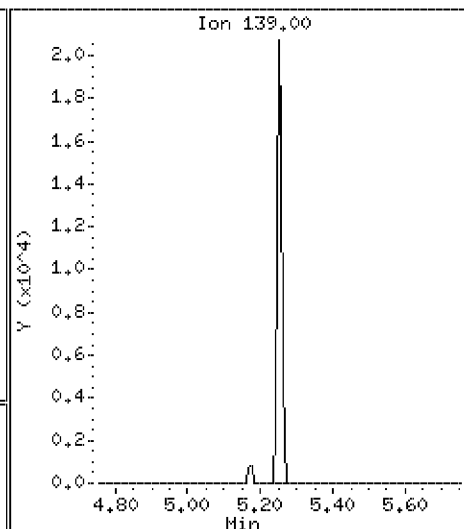
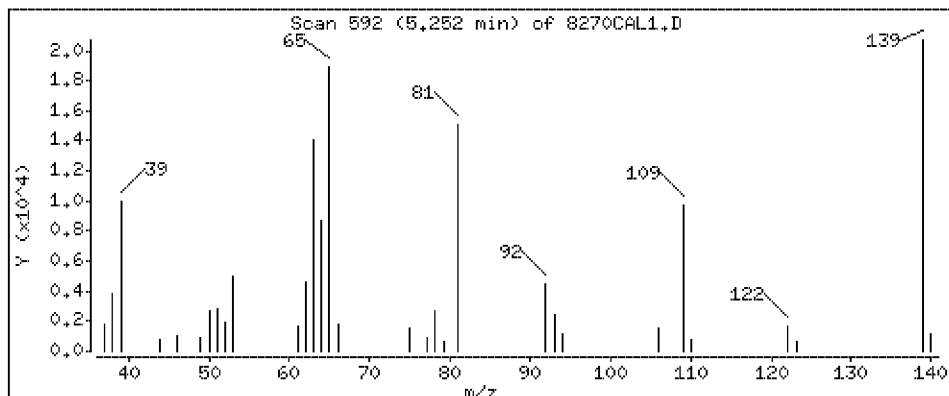
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

35 2-Nitrophenol

Concentration: 3.6 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

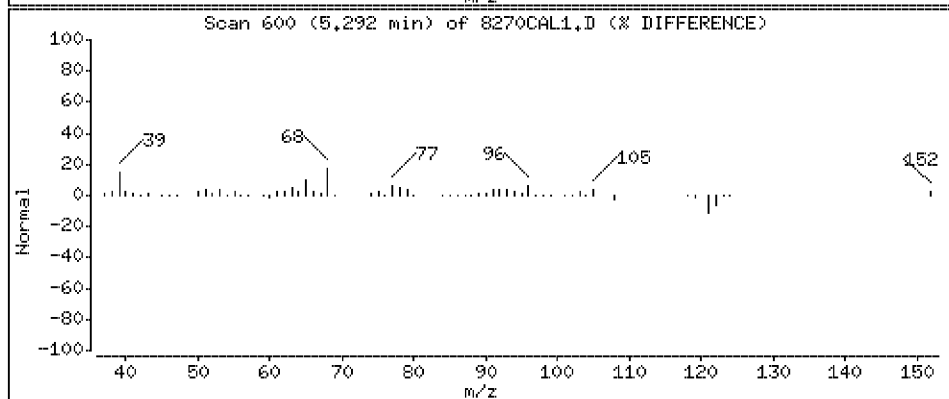
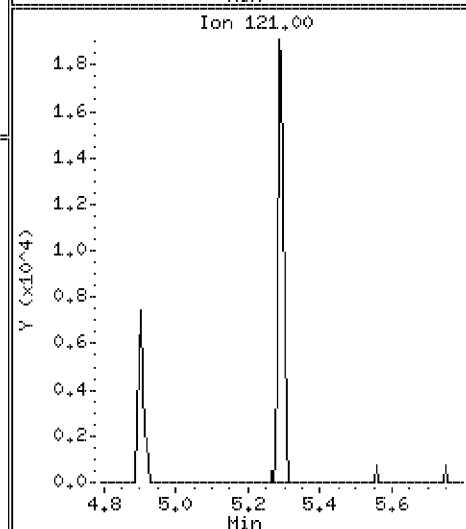
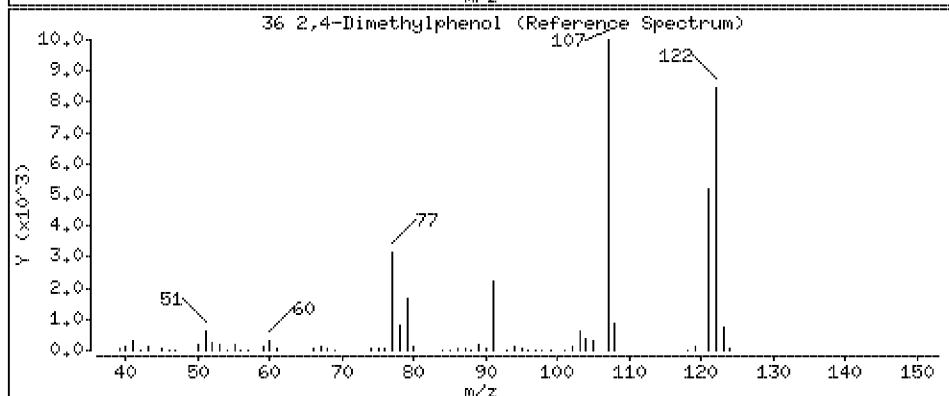
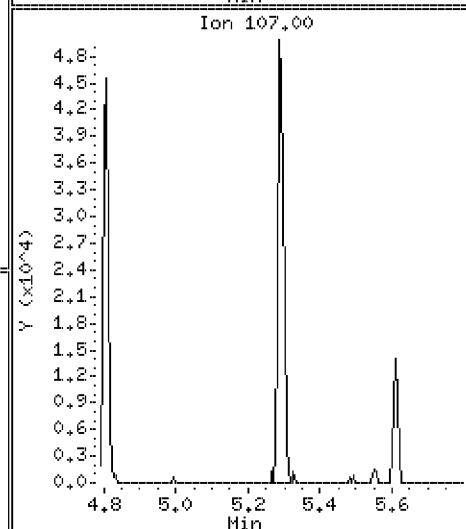
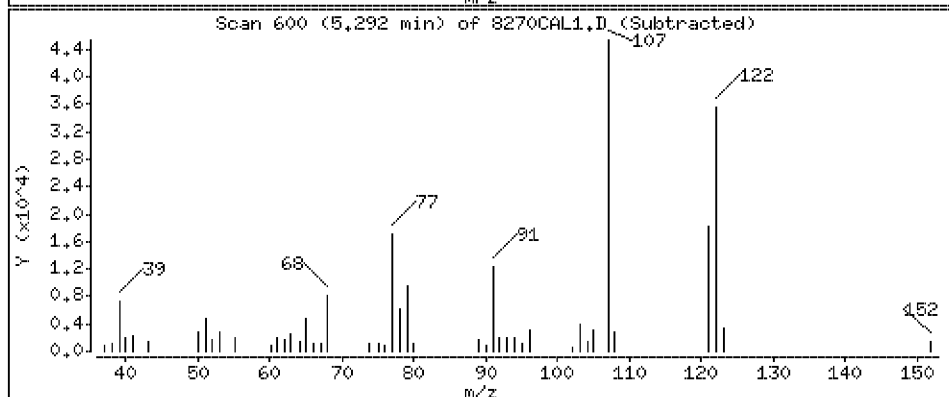
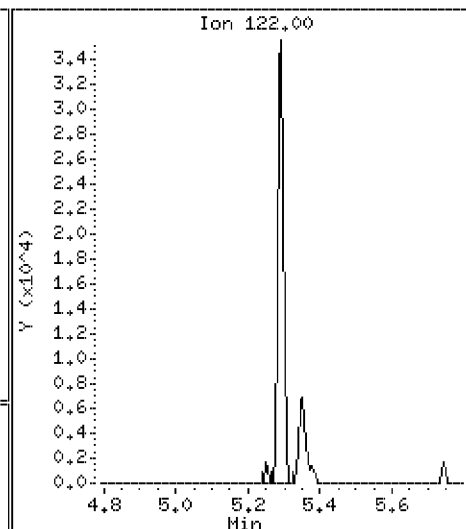
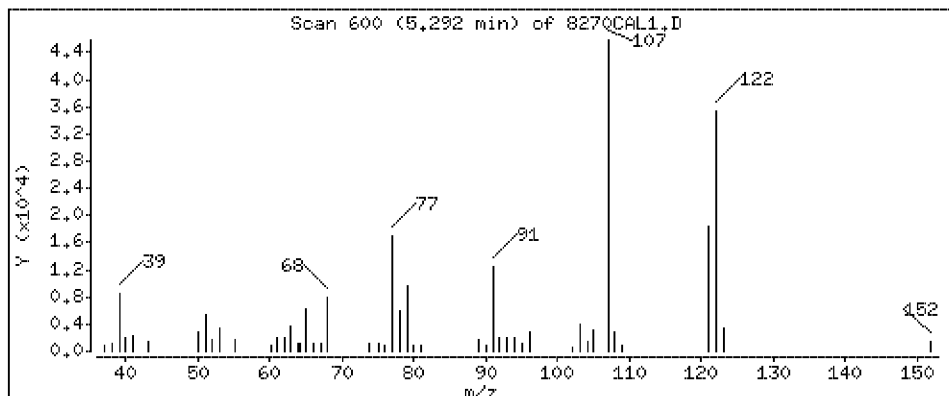
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

36 2,4-Dimethylphenol

Concentration: 4.0 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

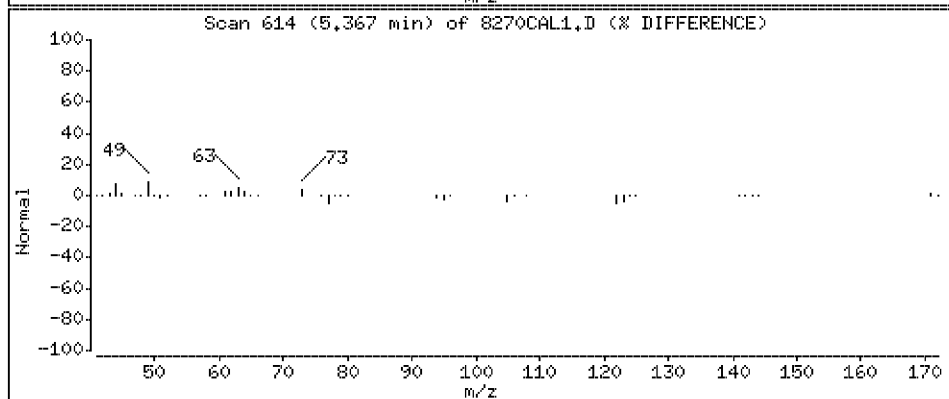
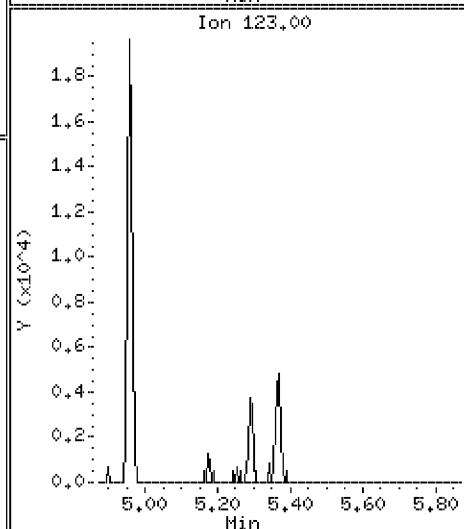
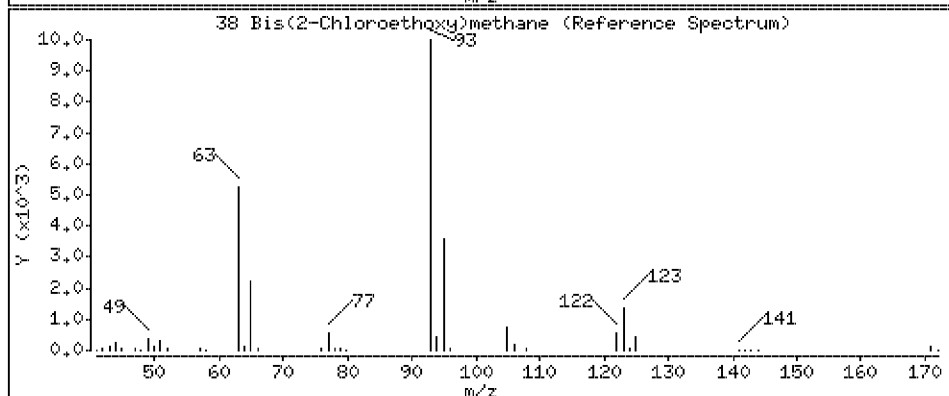
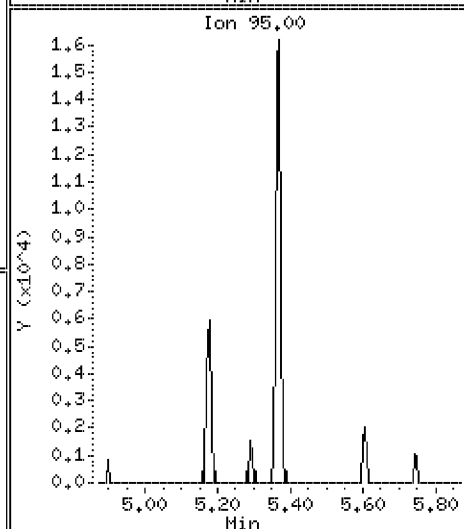
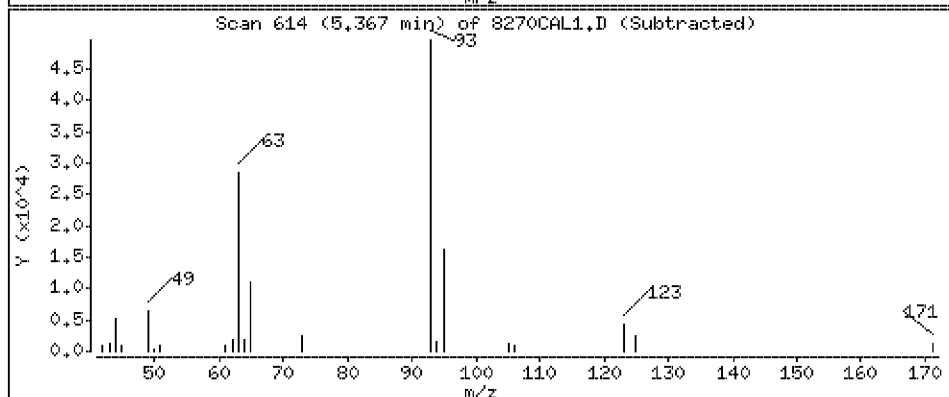
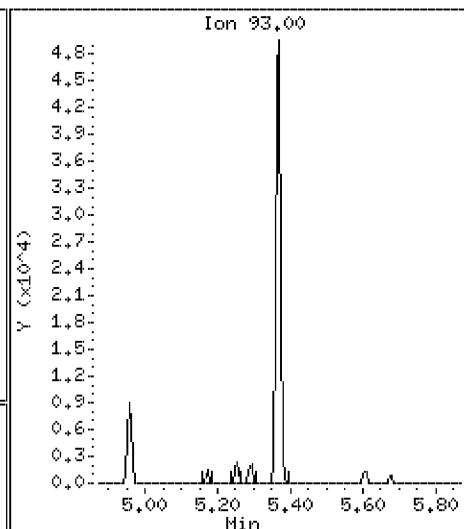
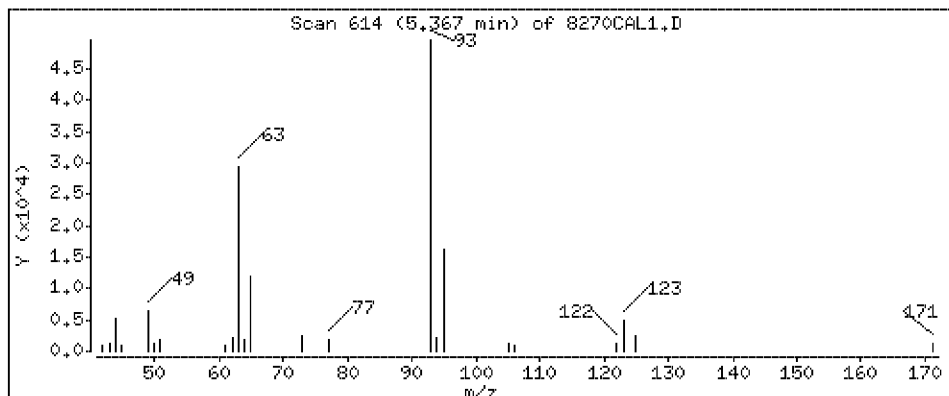
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

38 Bis(2-Chloroethoxy)methane

Concentration: 3.9 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

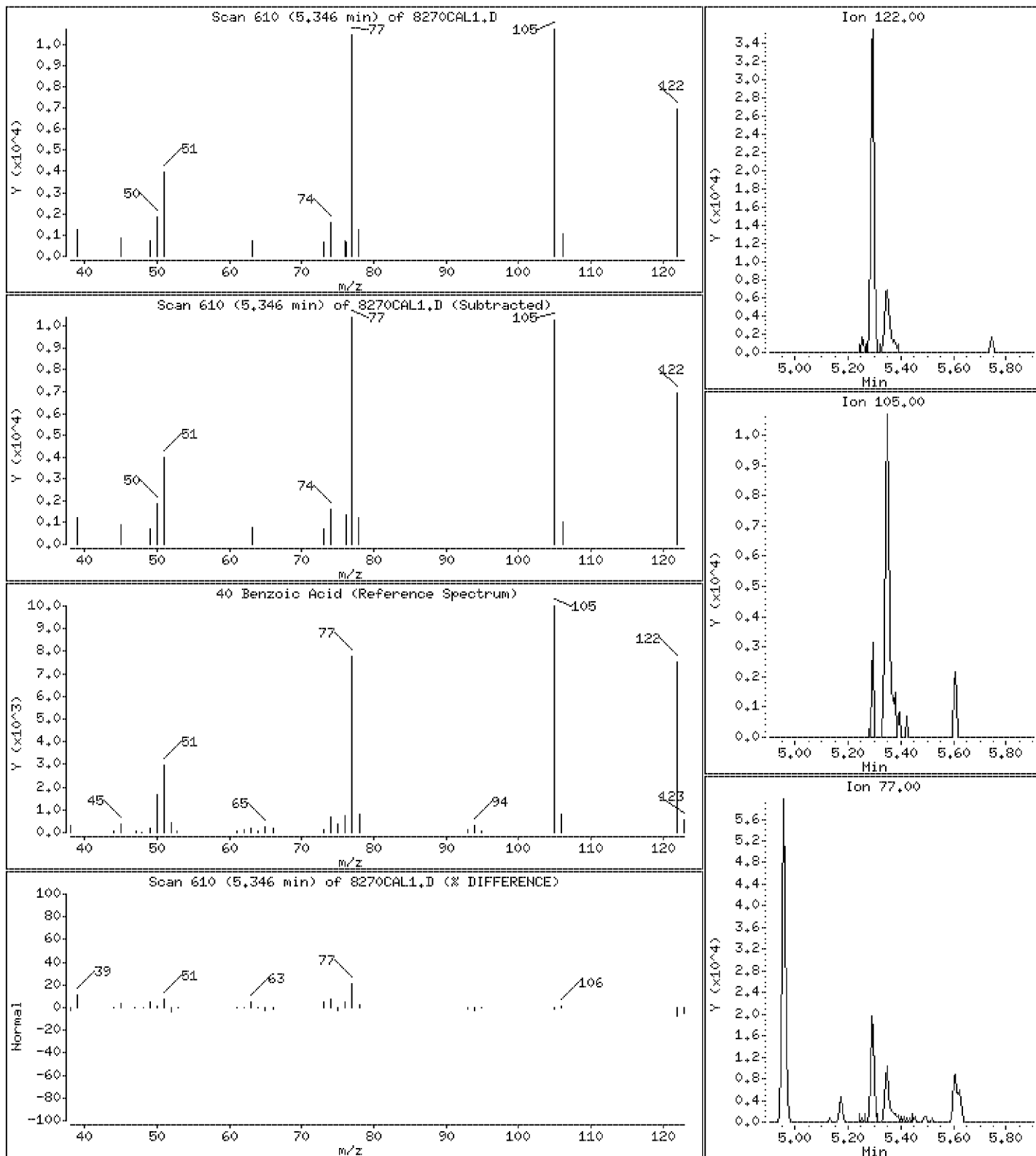
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

40 Benzoic Acid

Concentration: 5.9 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

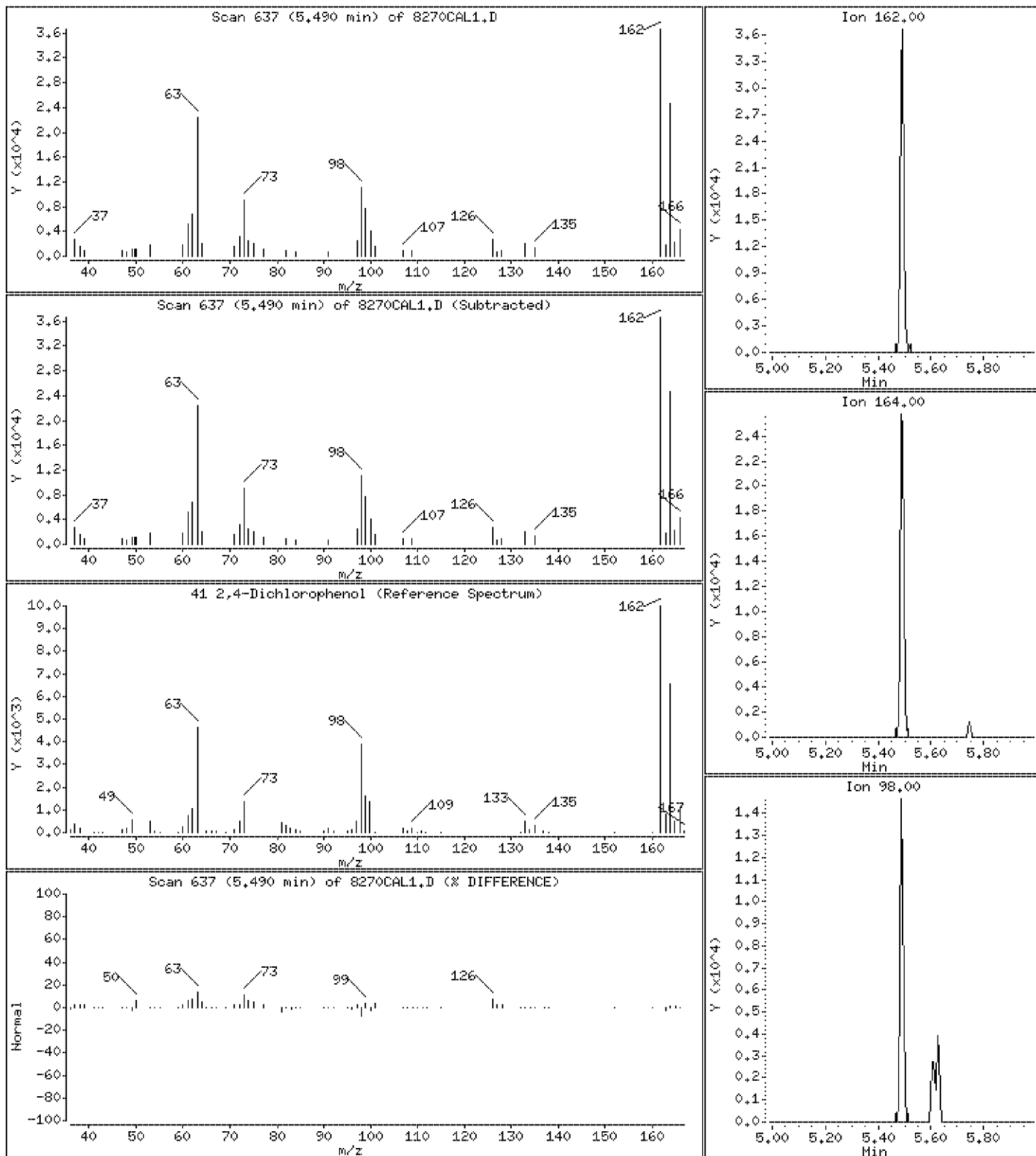
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

41 2,4-Dichlorophenol

Concentration: 3.6 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

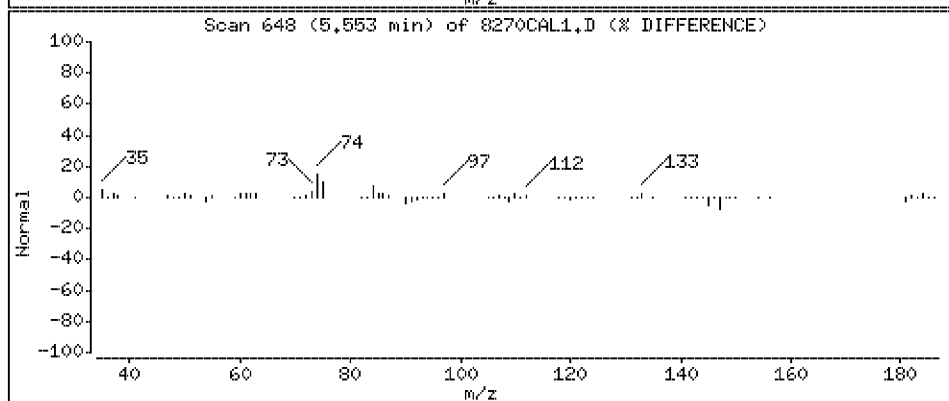
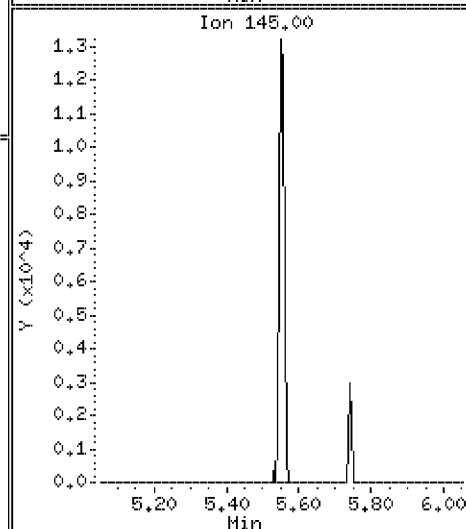
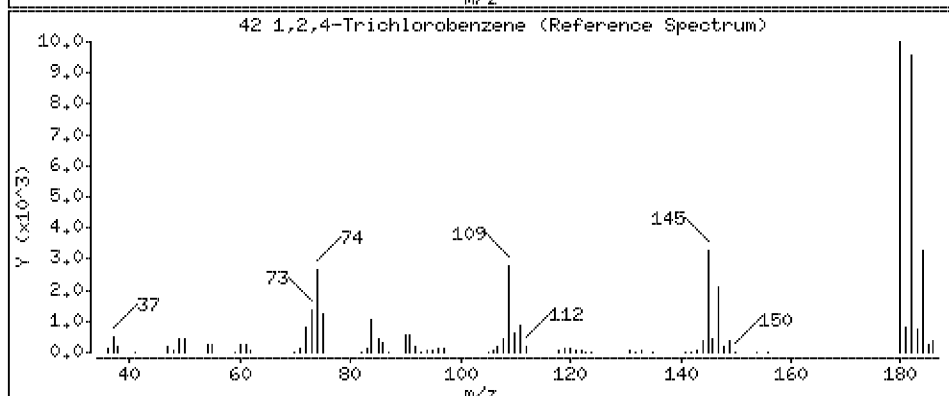
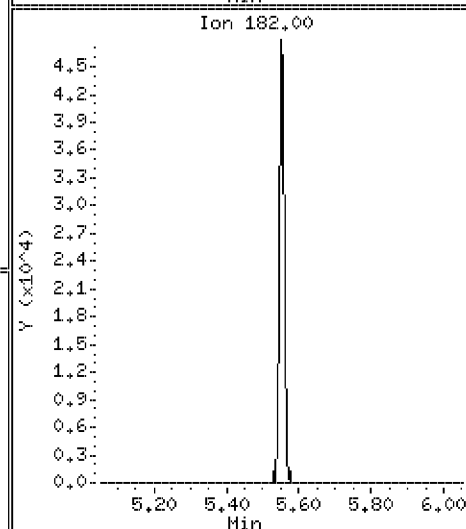
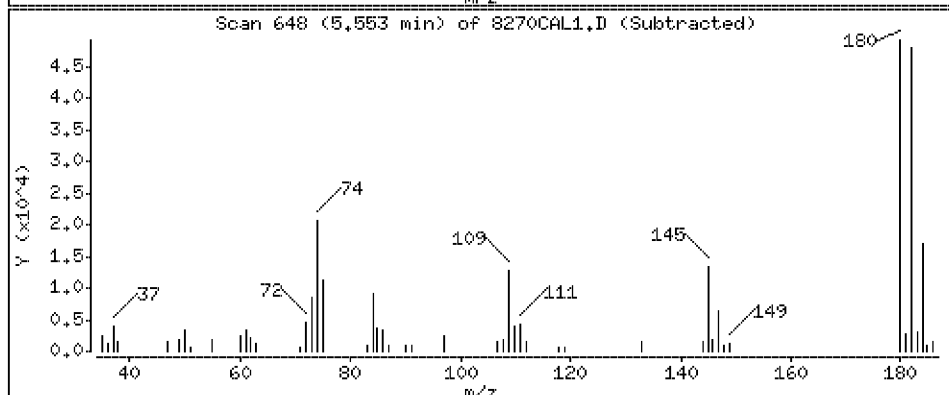
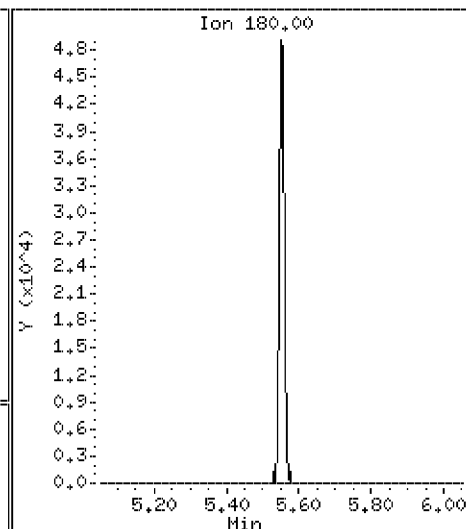
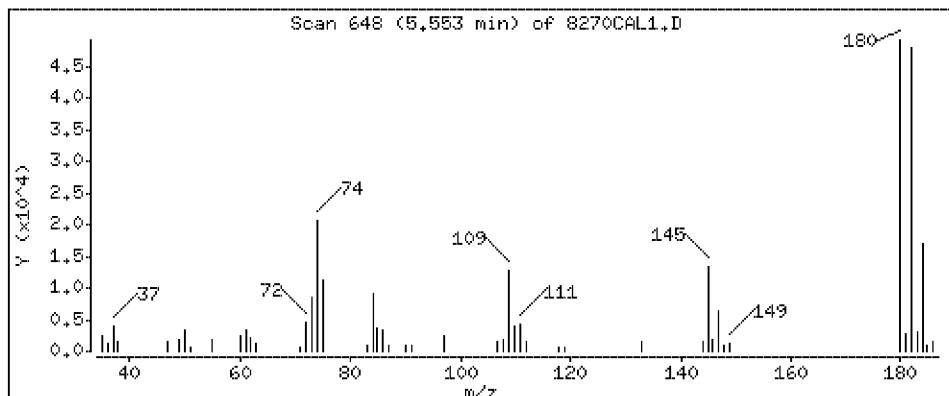
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

42 1,2,4-Trichlorobenzene

Concentration: 4.0 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

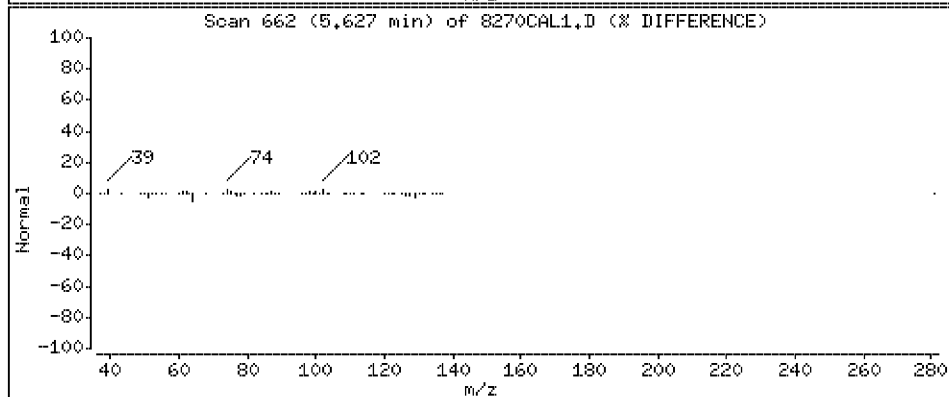
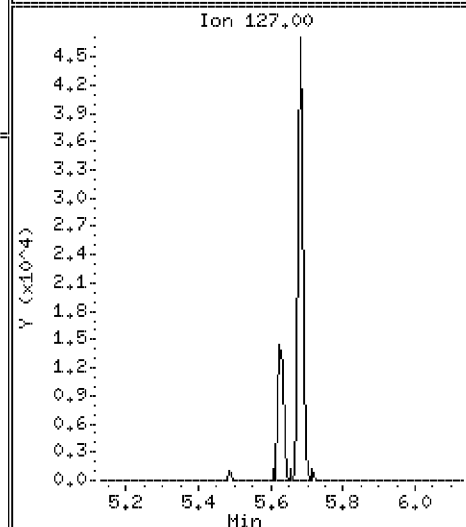
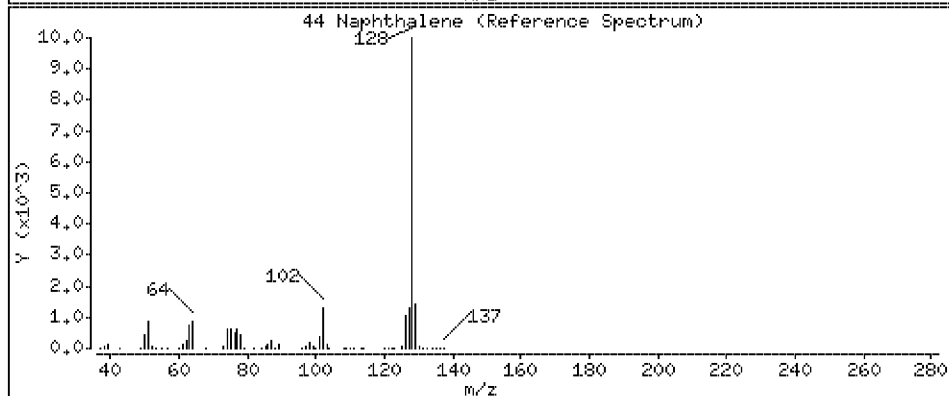
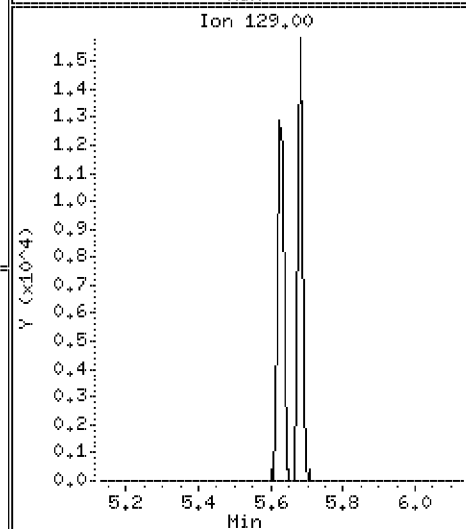
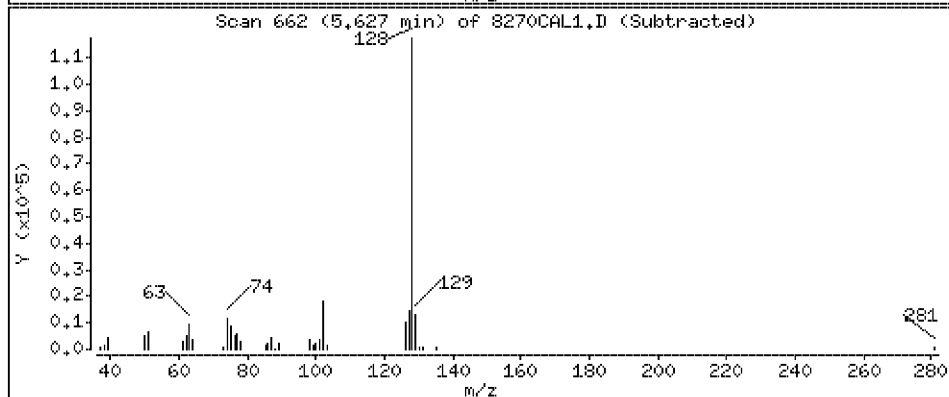
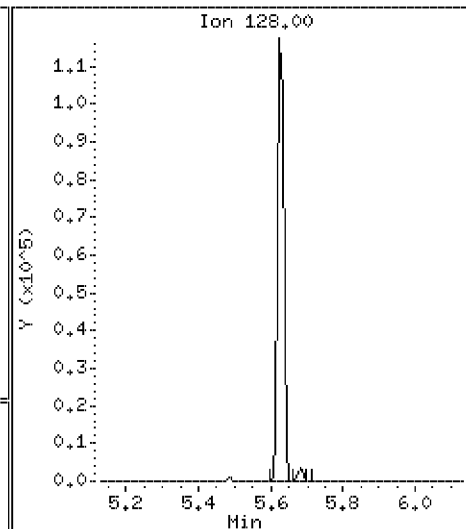
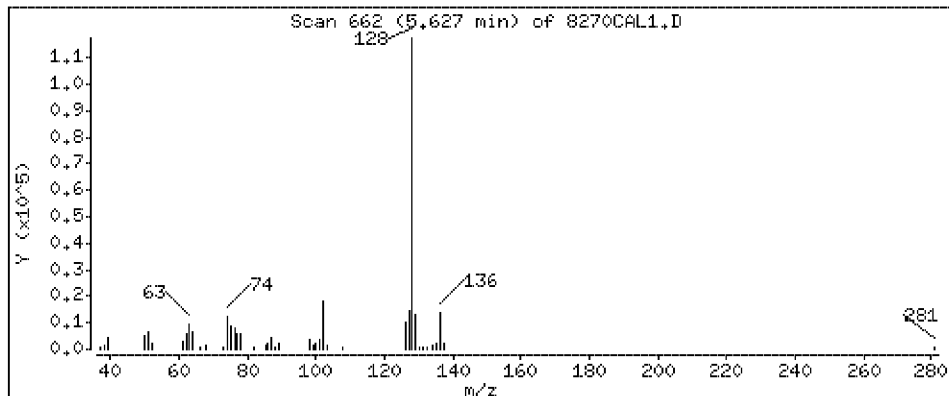
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

44 Naphthalene

Concentration: 4.1 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

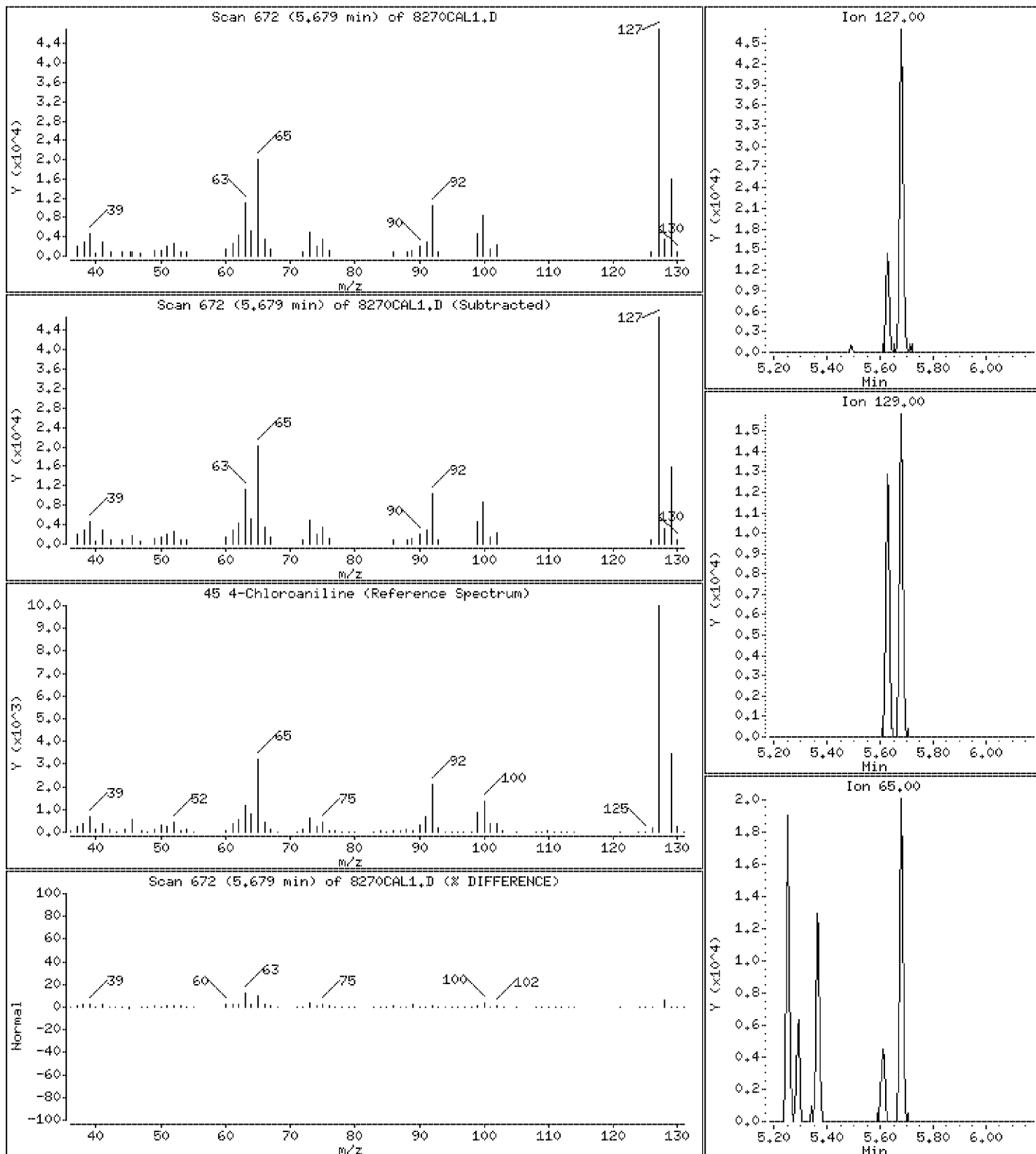
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

45 4-Chloroaniline

Concentration: 4.0 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

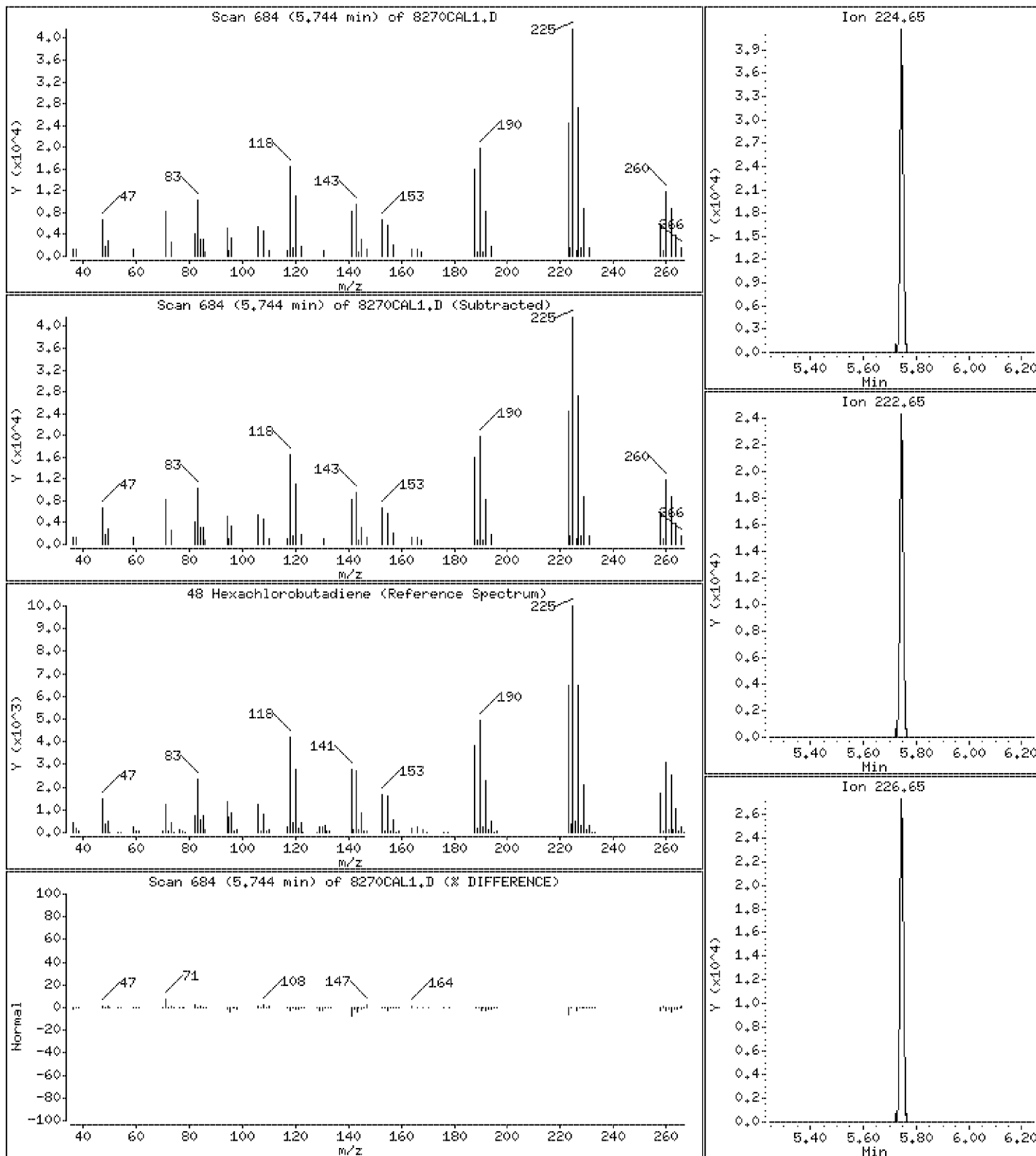
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

48 Hexachlorobutadiene

Concentration: 3.9 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

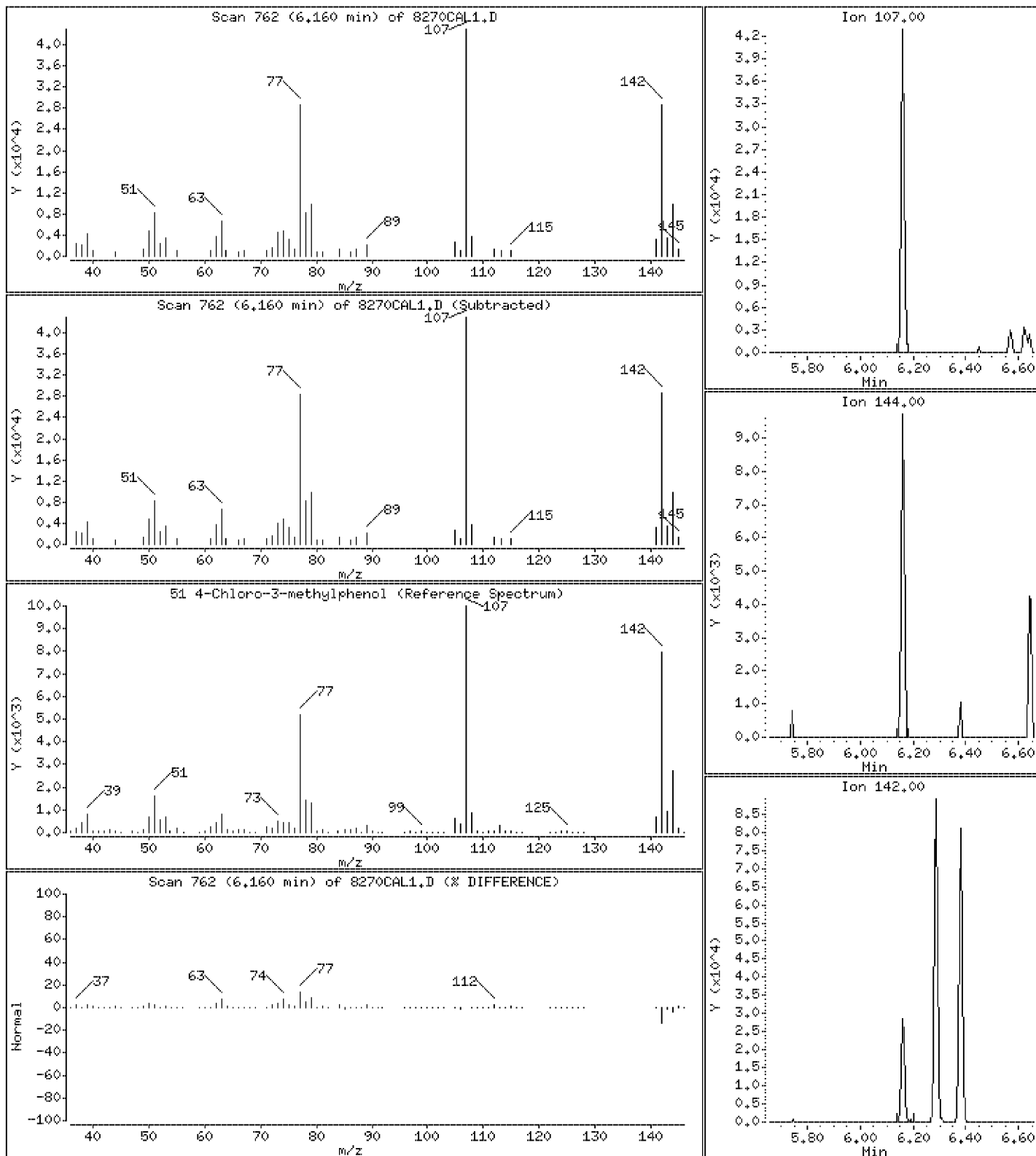
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

51 4-Chloro-3-methylphenol

Concentration: 3.8 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

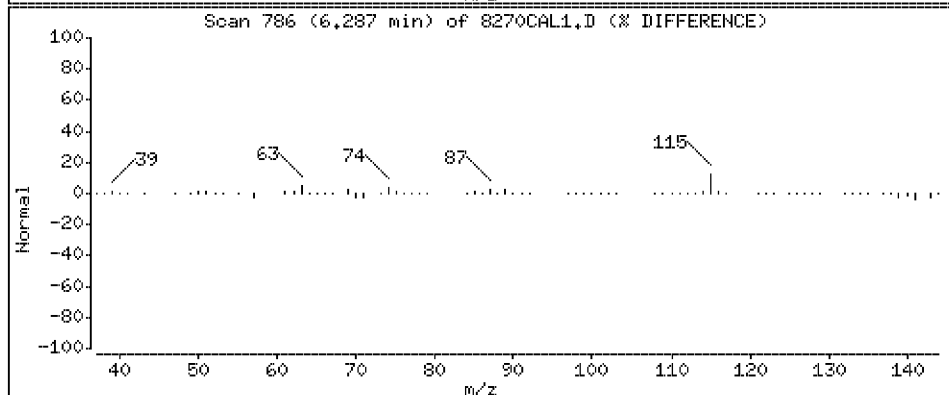
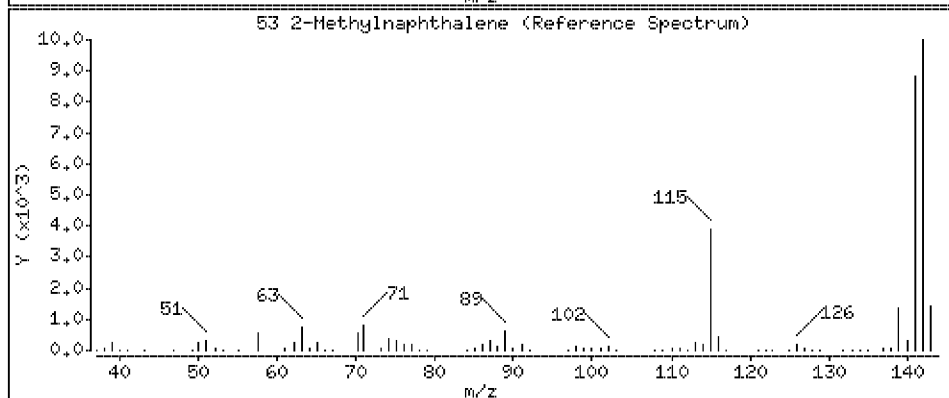
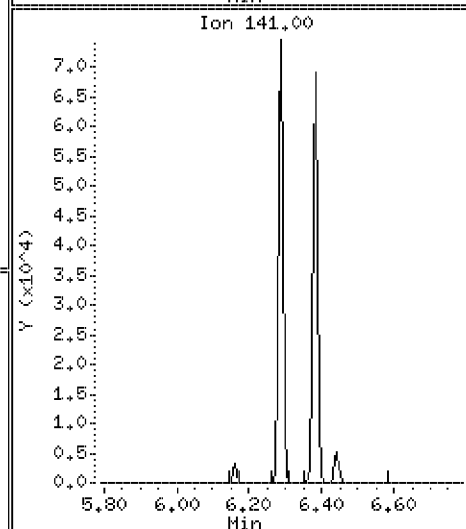
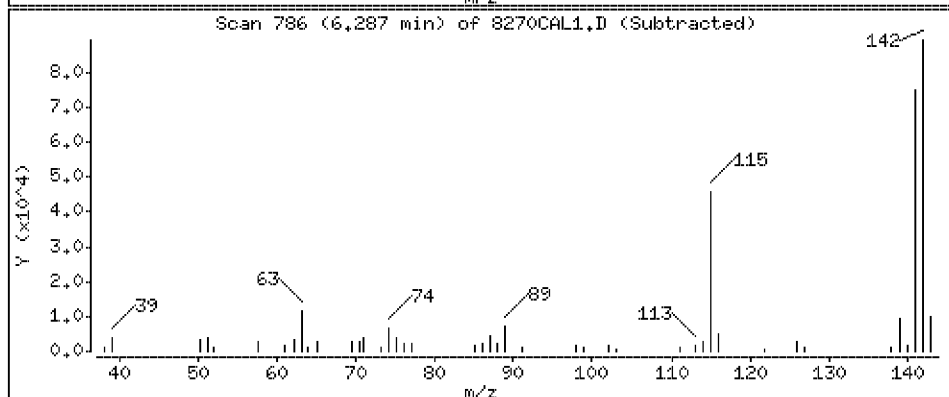
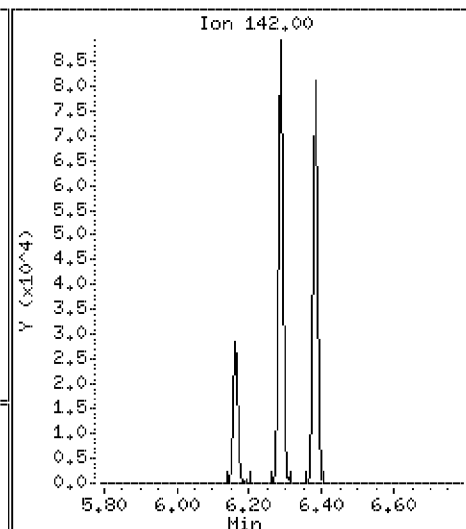
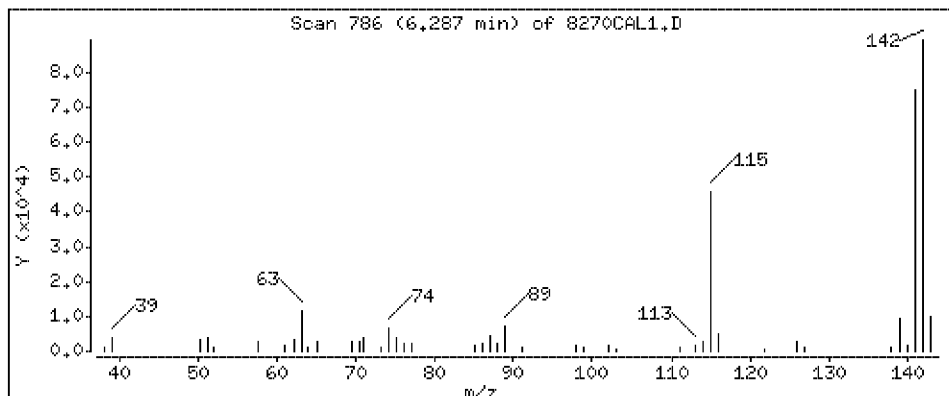
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

53 2-Methylnaphthalene

Concentration: 4.0 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

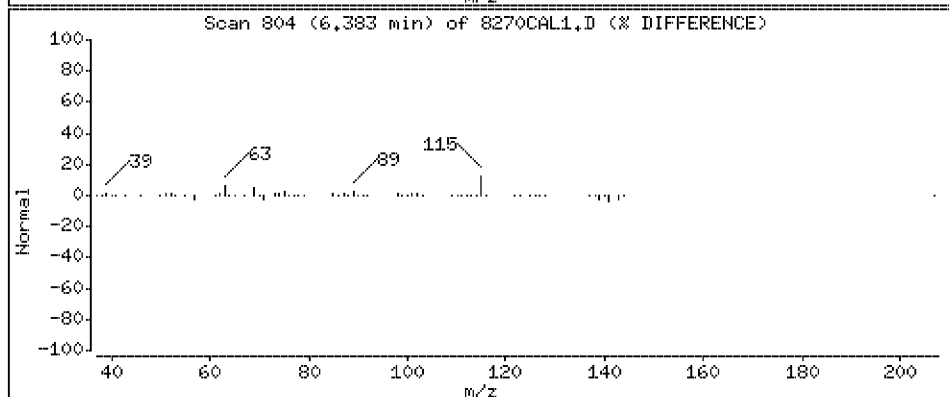
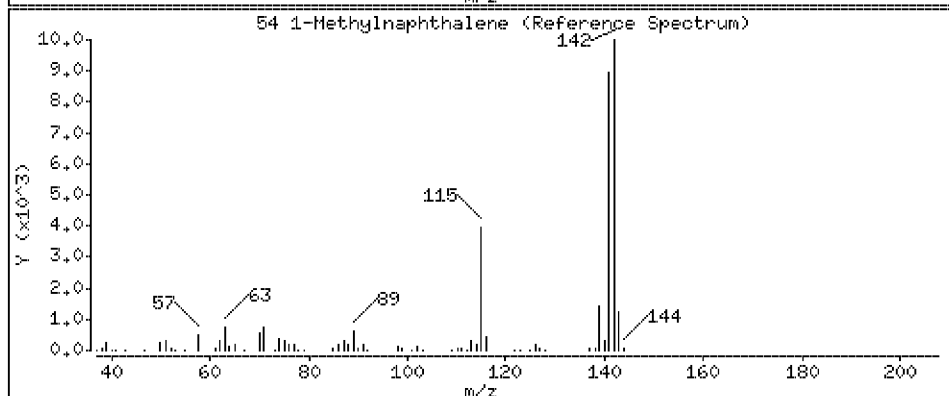
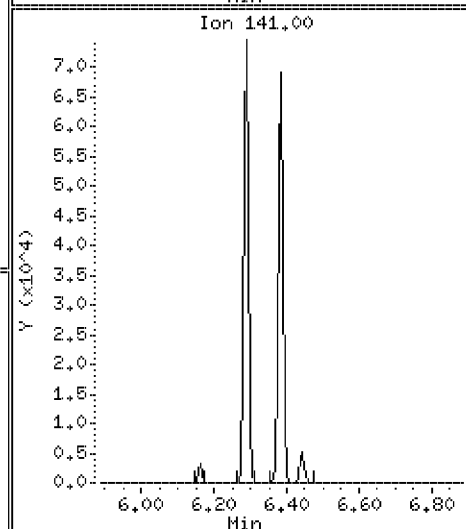
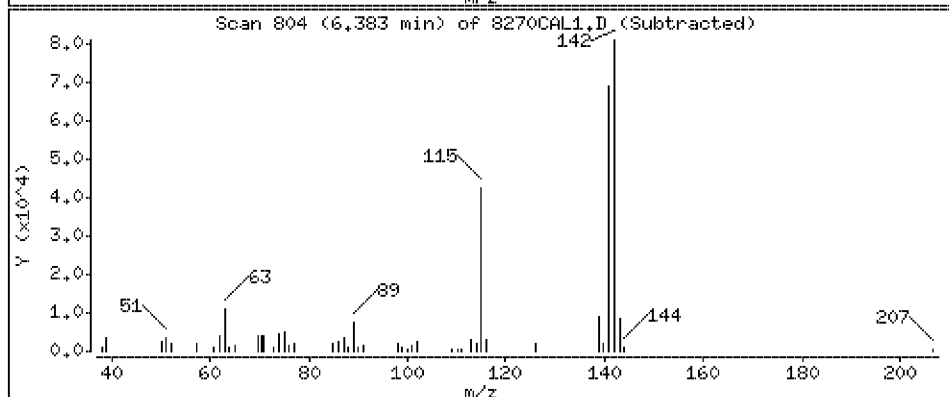
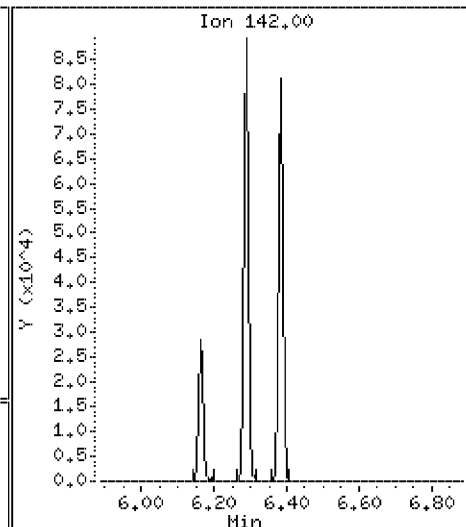
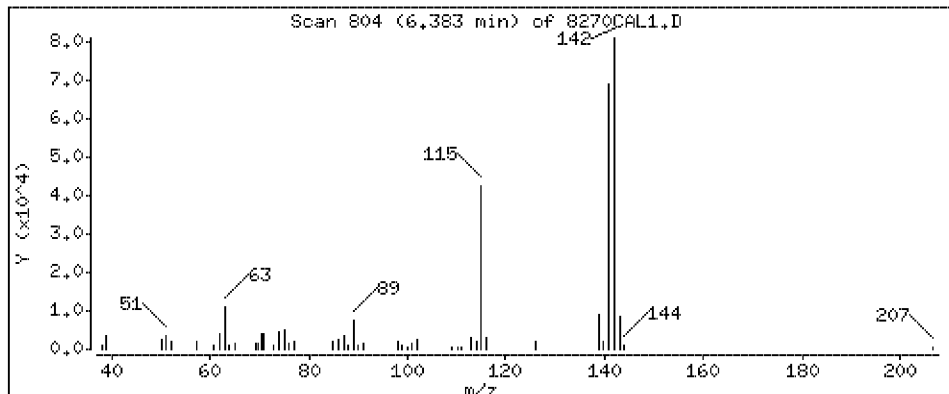
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

54 1-Methylnaphthalene

Concentration: 4.0 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

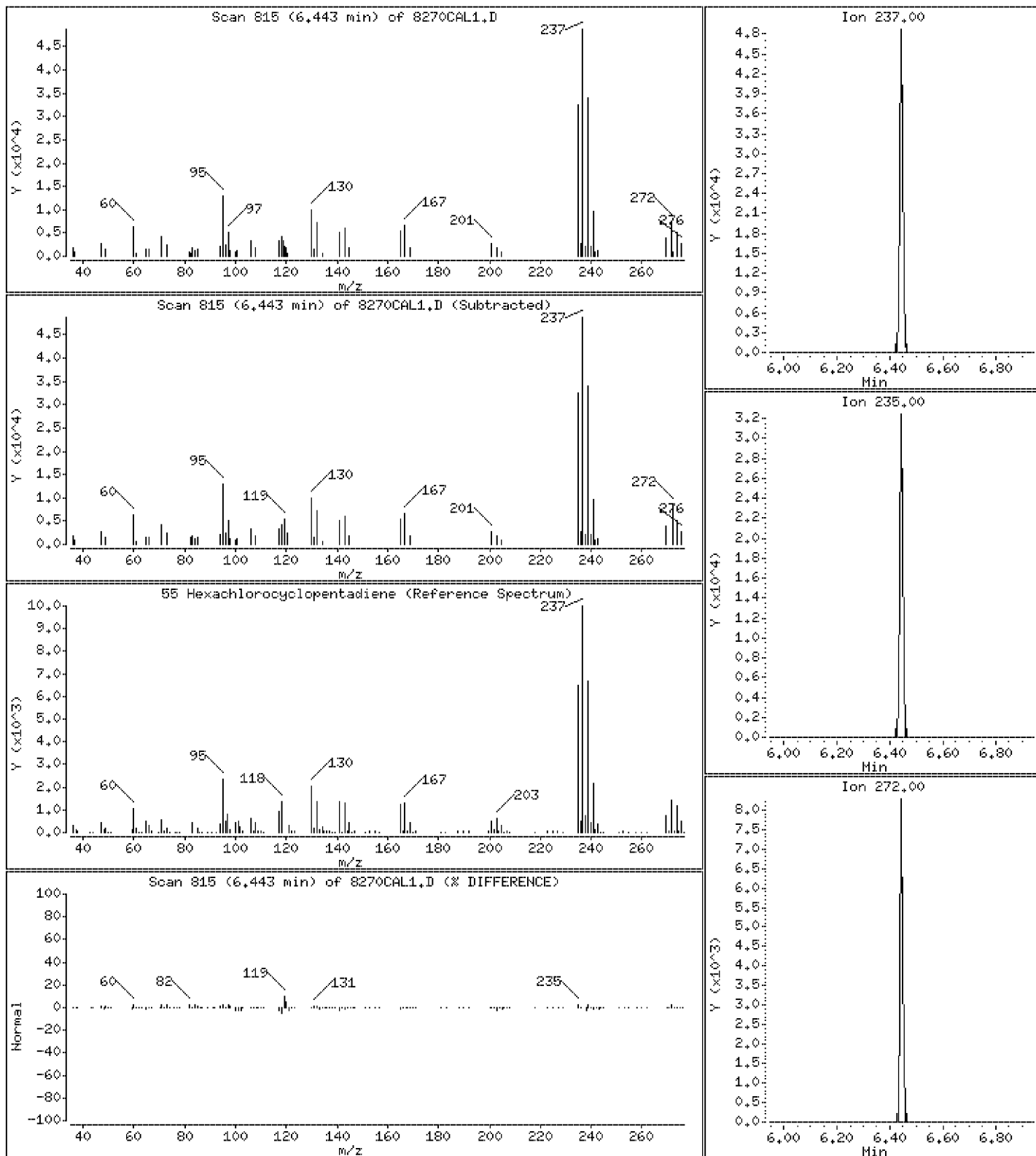
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

55 Hexachlorocyclopentadiene

Concentration: 3.4 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

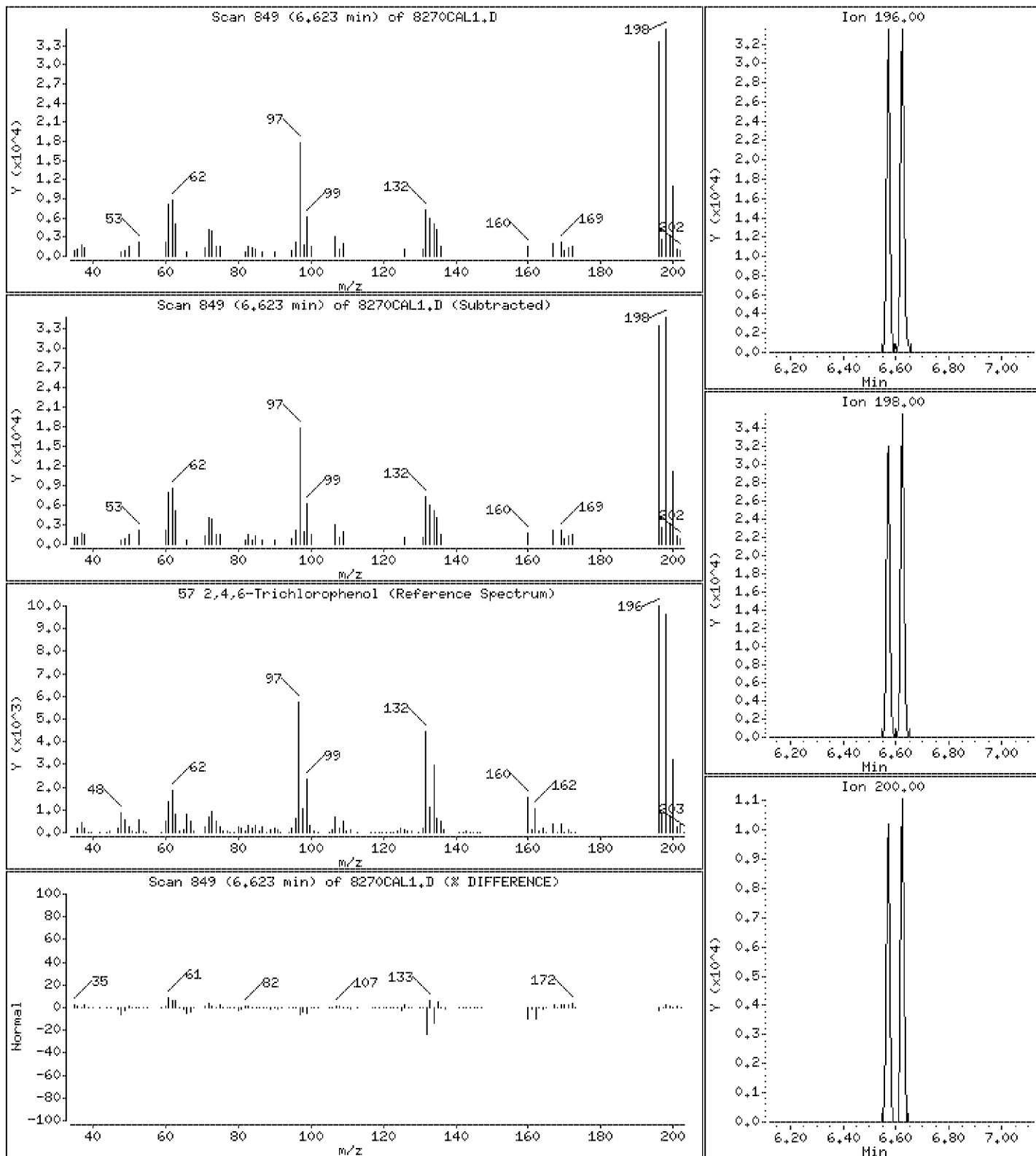
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

57 2,4,6-Trichlorophenol

Concentration: 3.6 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

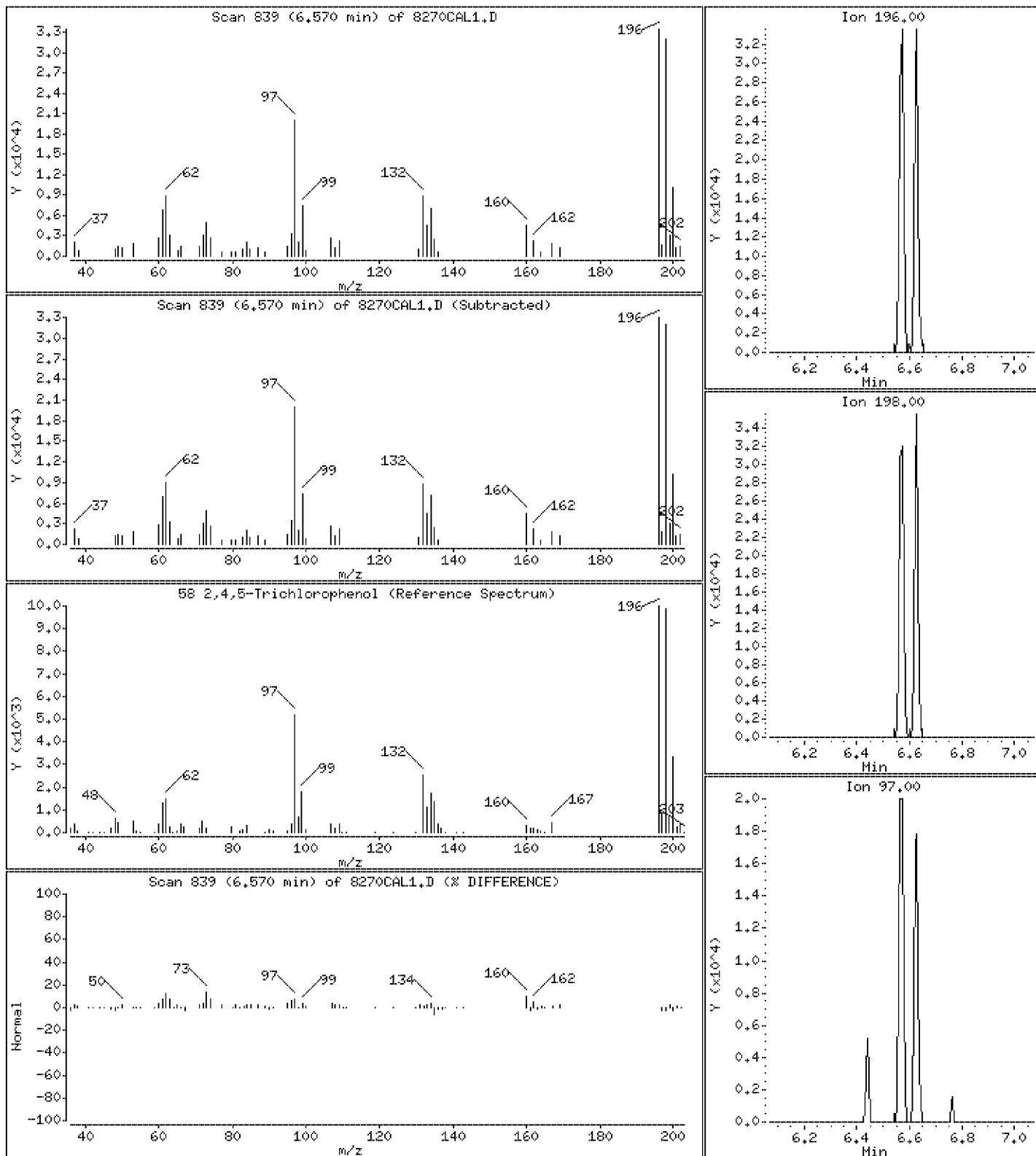
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

58 2,4,5-Trichlorophenol

Concentration: 3.5 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

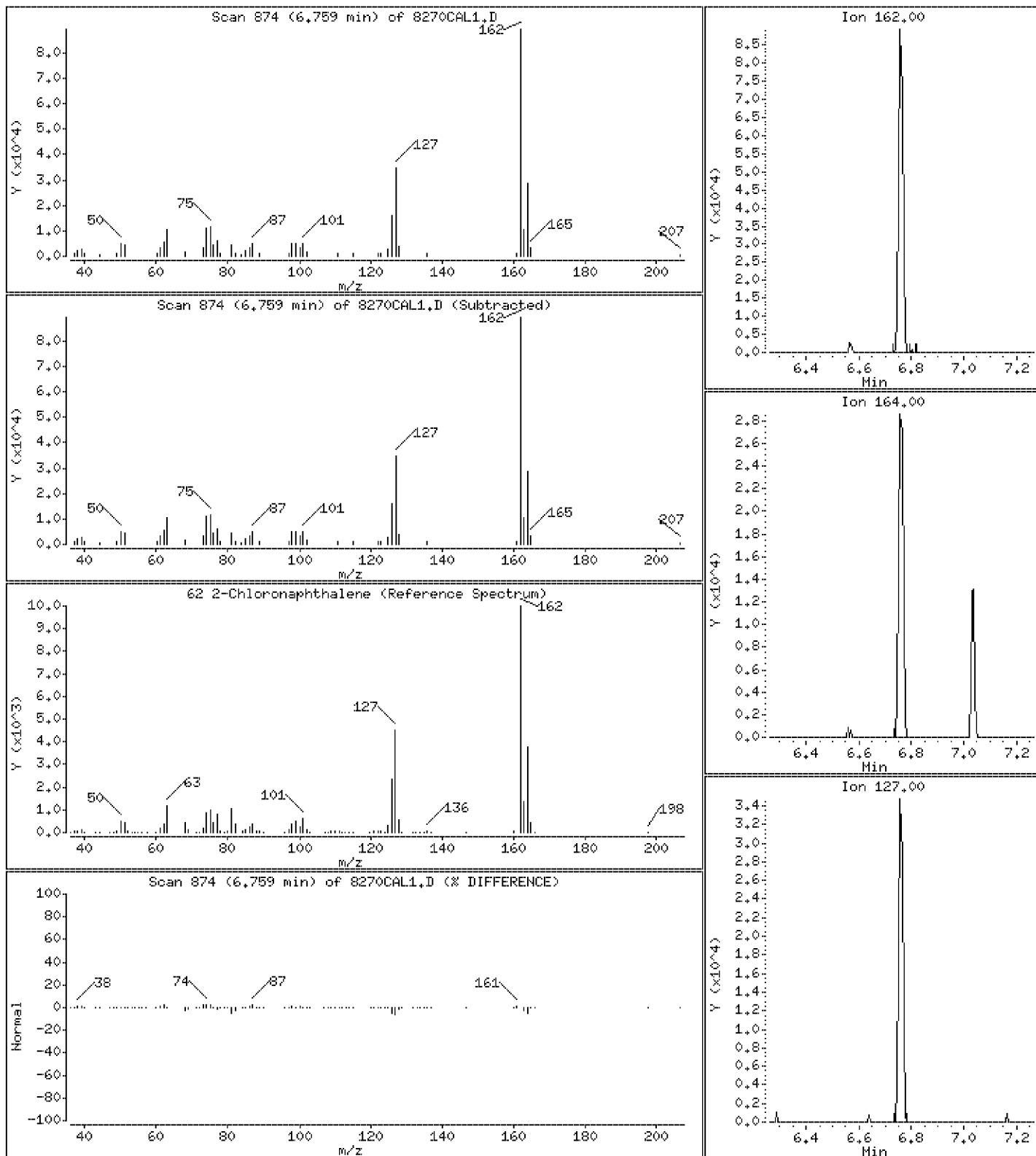
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

62 2-Chloronaphthalene

Concentration: 3.7 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

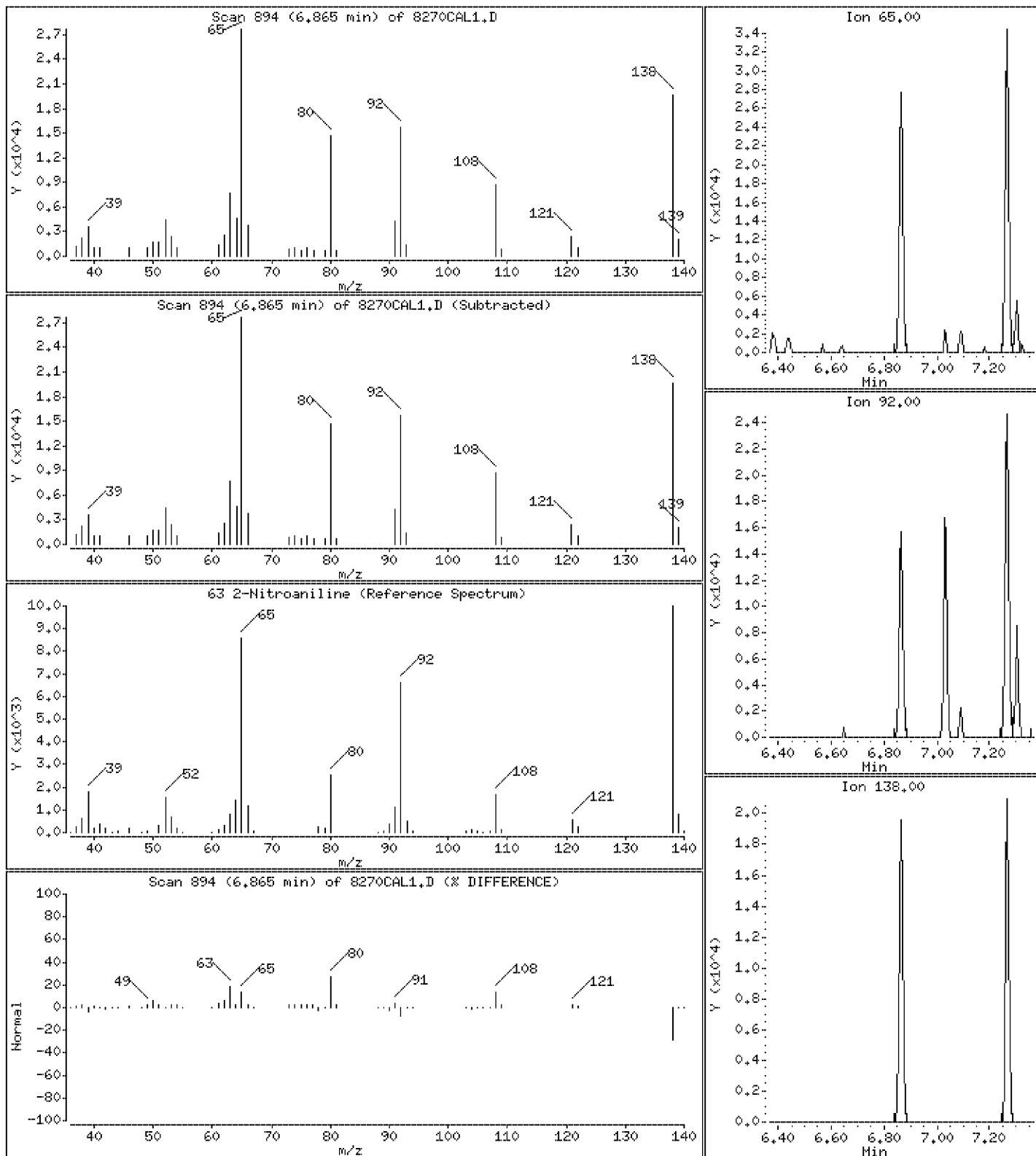
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

63 2-Nitroaniline

Concentration: 3.5 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

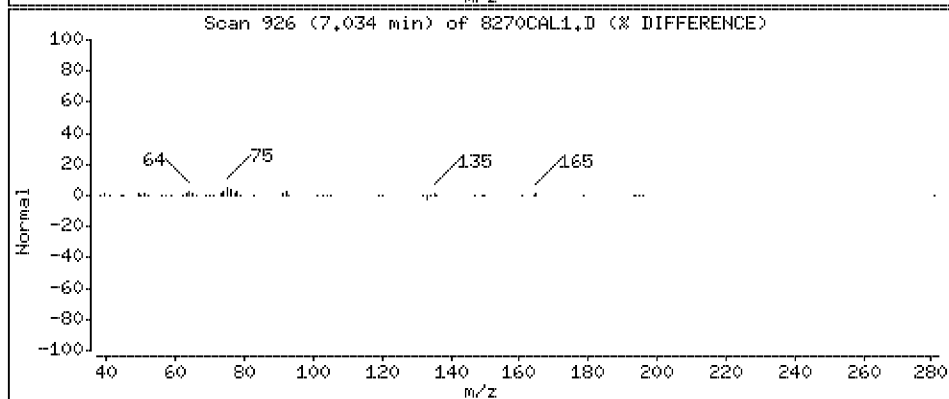
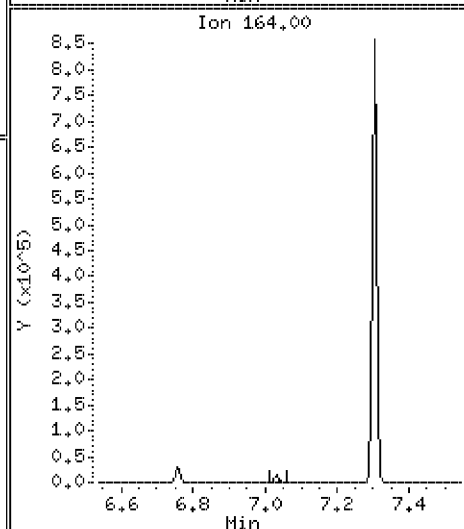
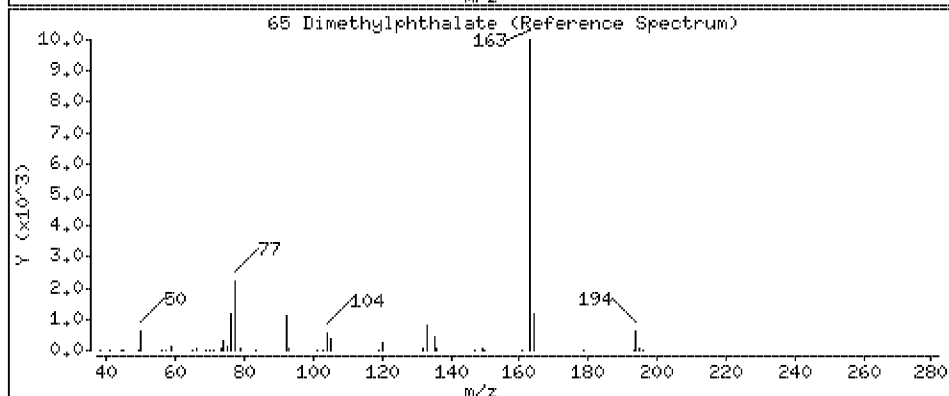
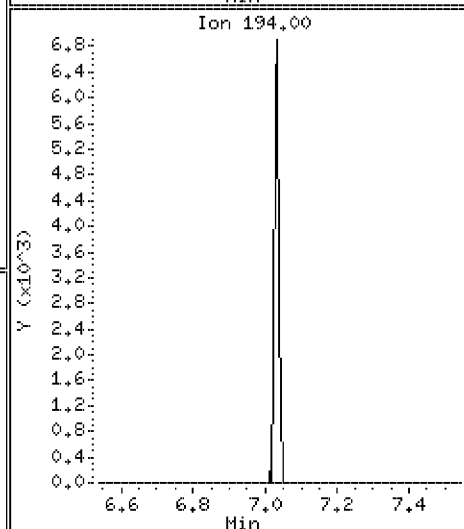
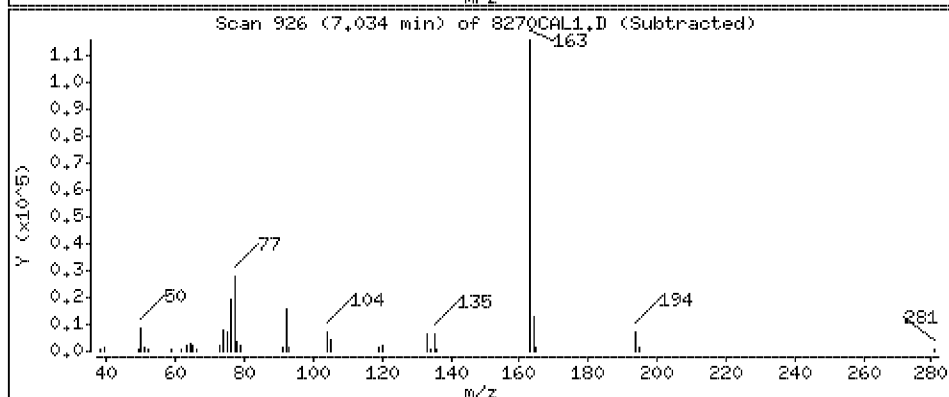
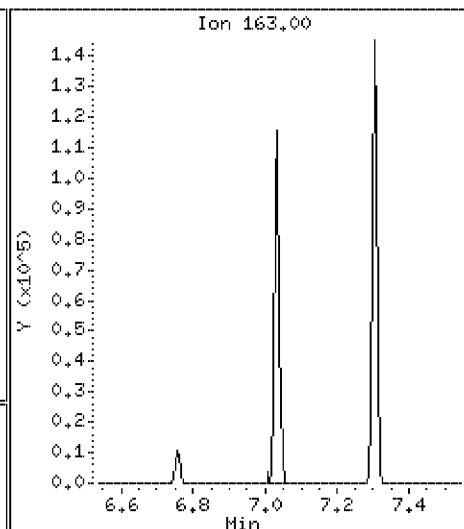
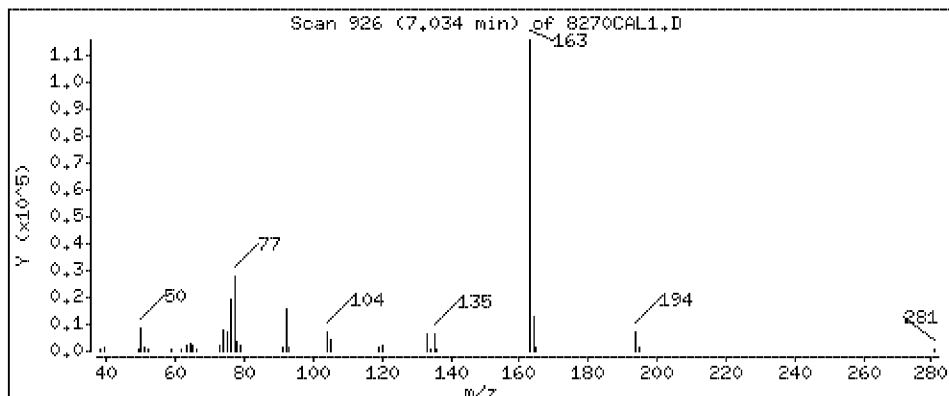
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

65 Dimethylphthalate

Concentration: 3.9 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

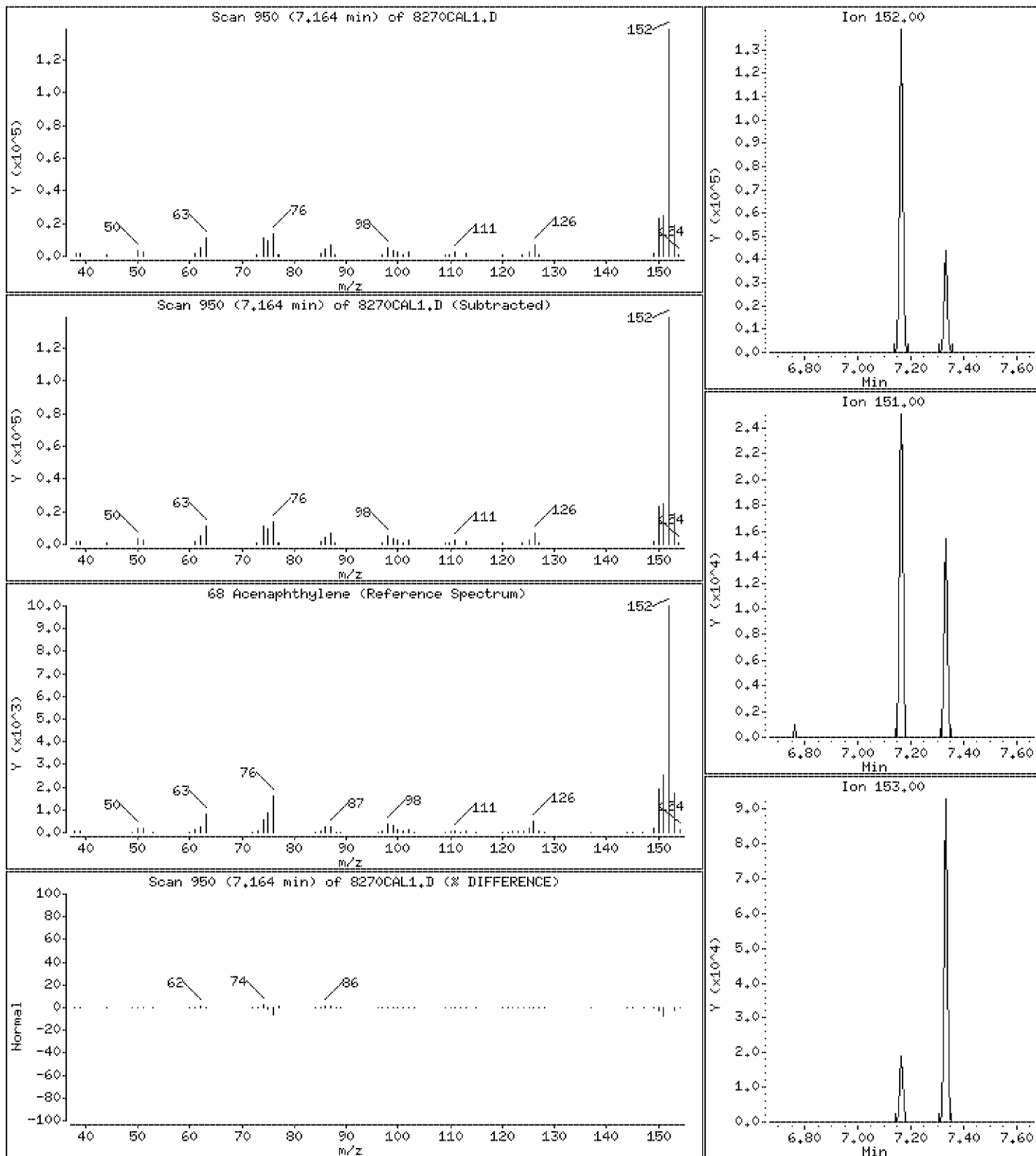
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

68 Acenaphthylene

Concentration: 3.8 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

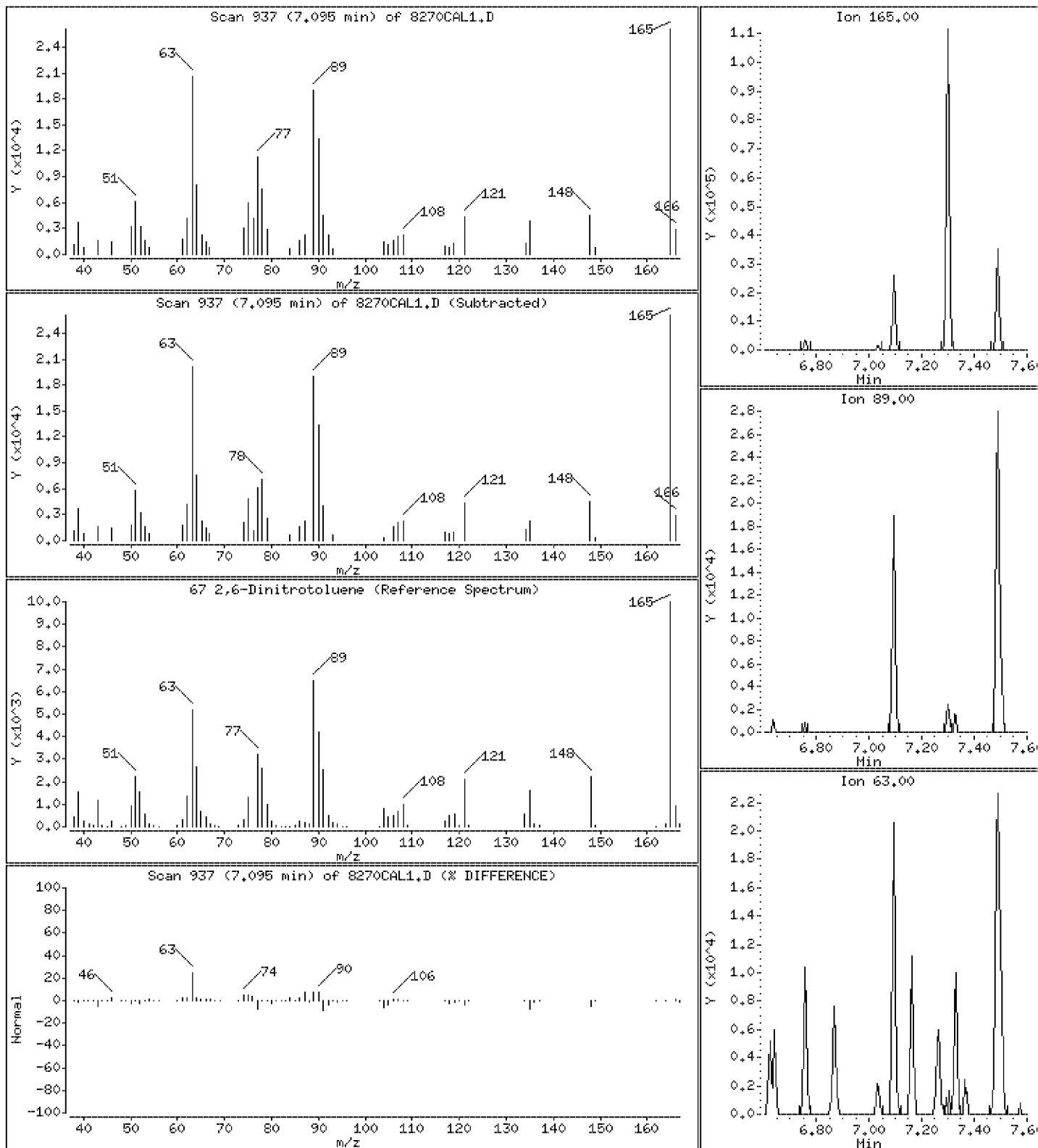
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

67 2,6-Dinitrotoluene

Concentration: 3.5 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

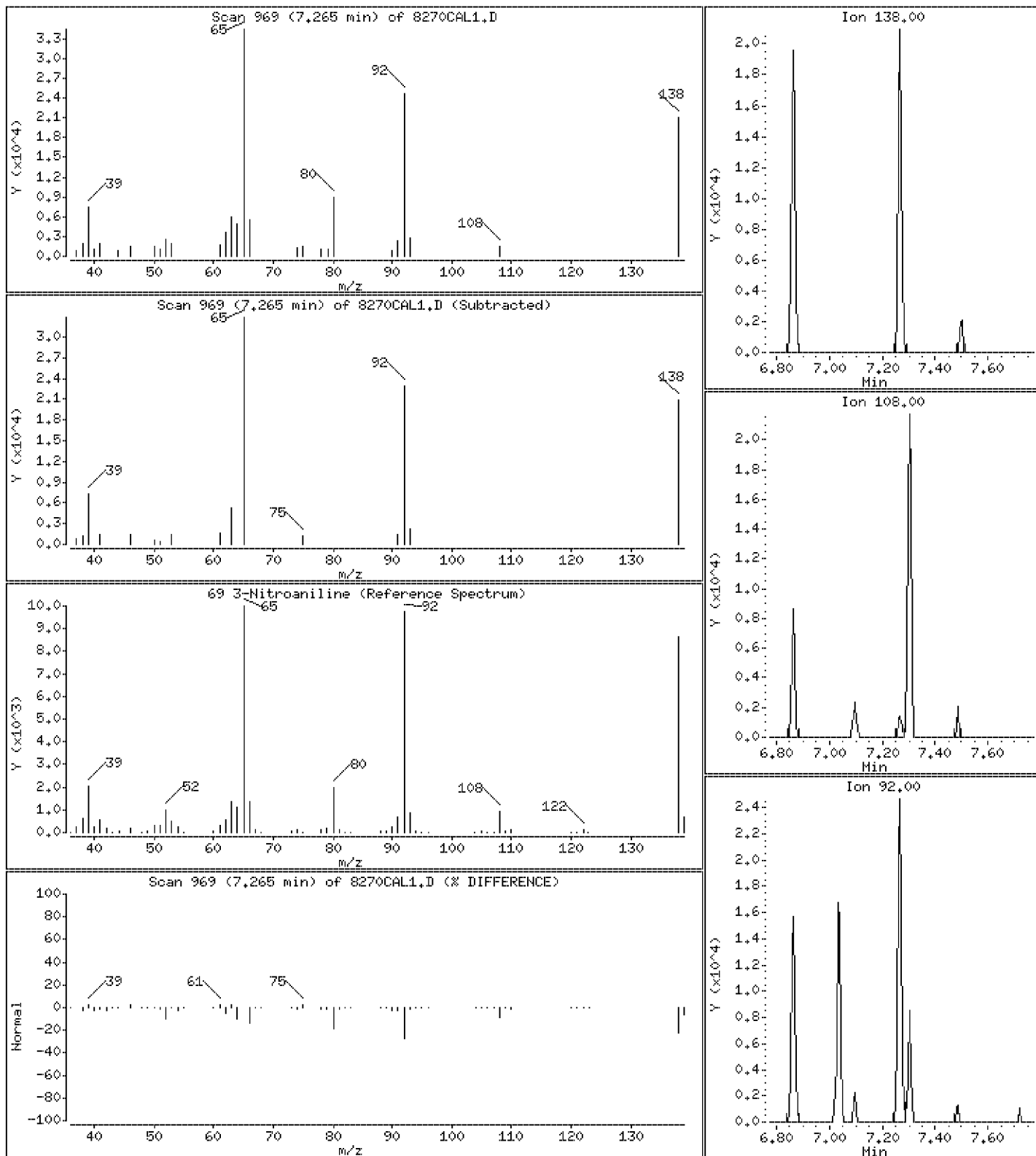
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

69 3-Nitroaniline

Concentration: 3.8 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

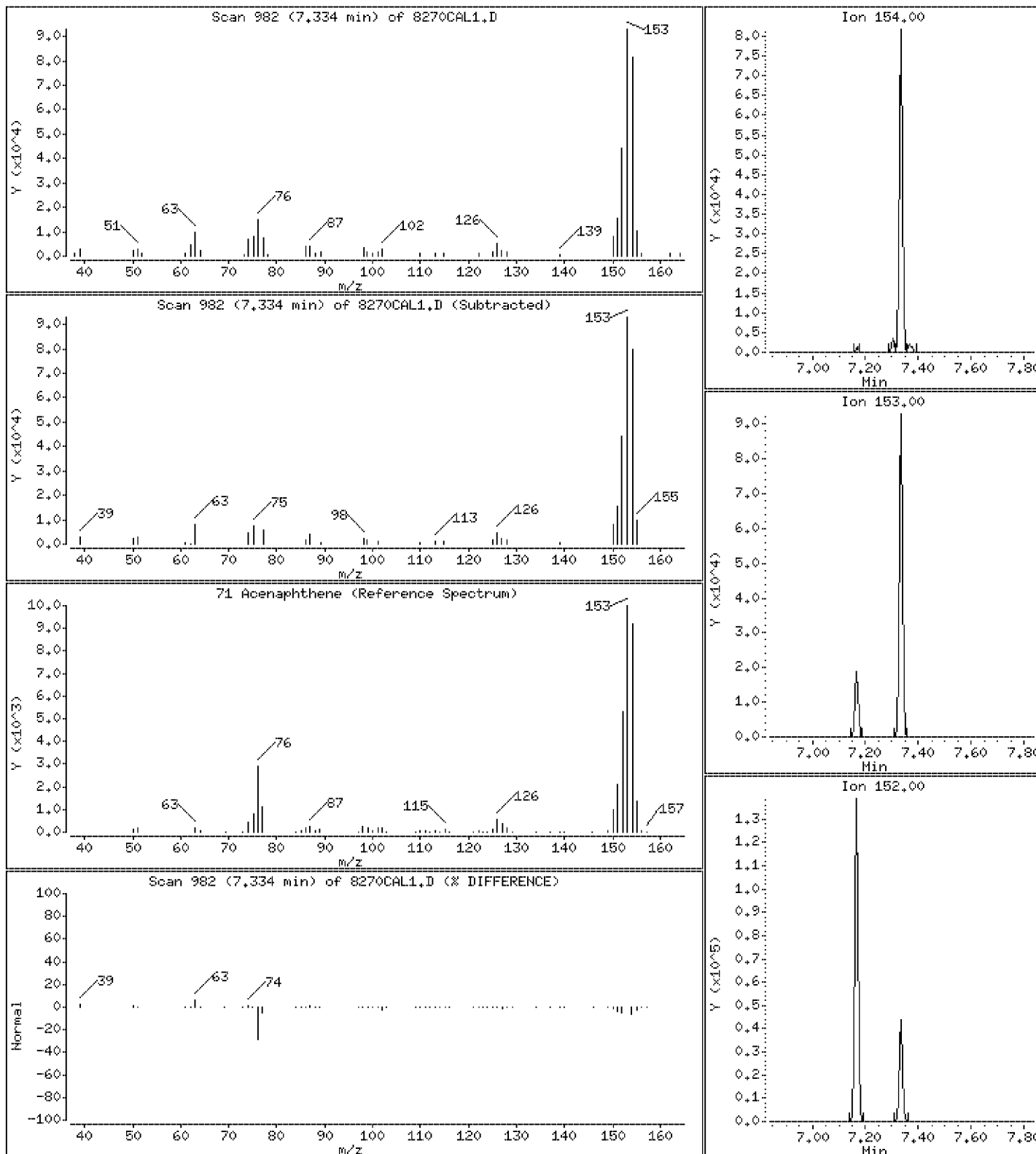
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

71 Acenaphthene

Concentration: 3.6 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

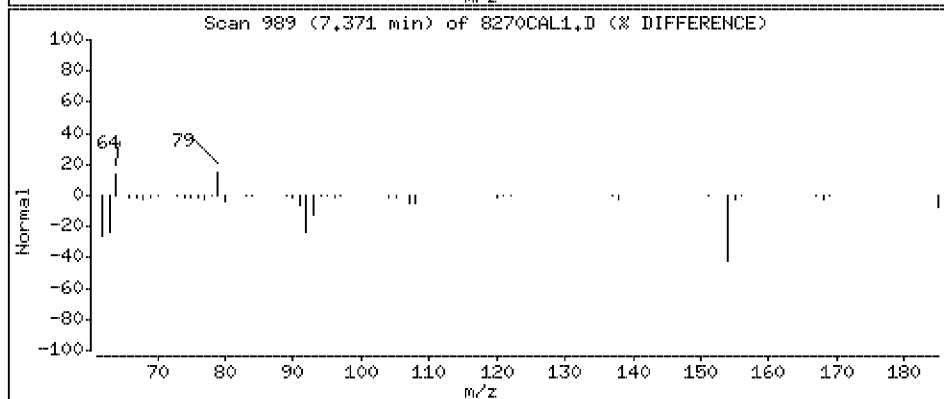
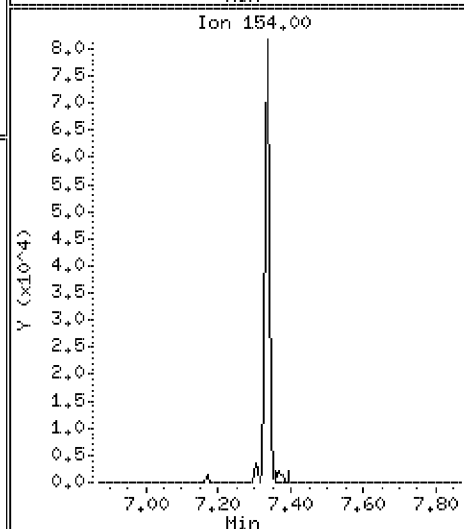
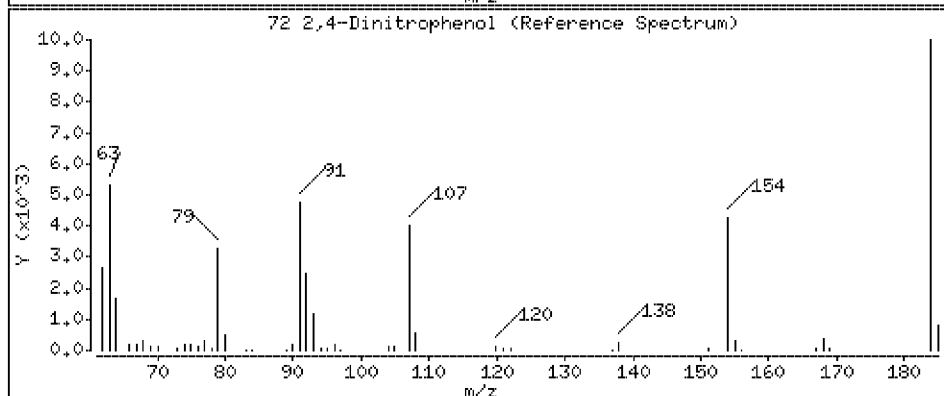
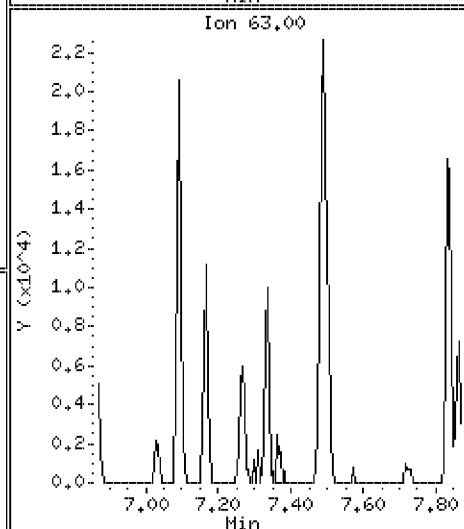
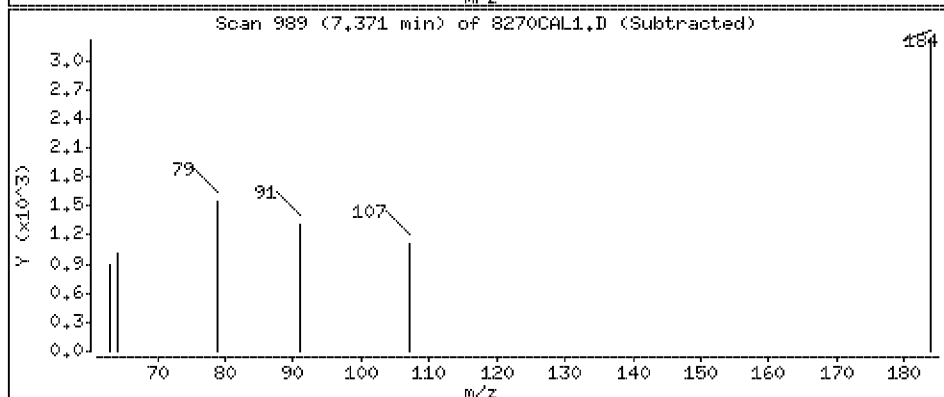
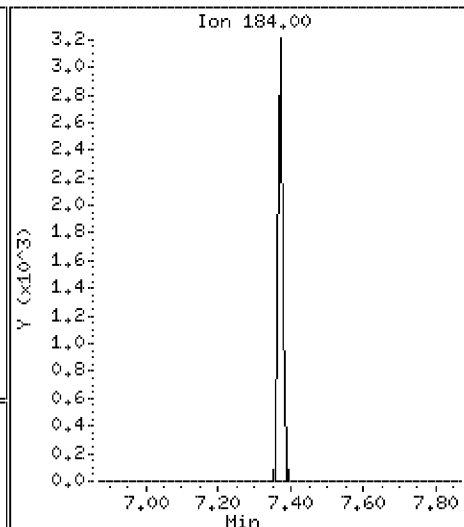
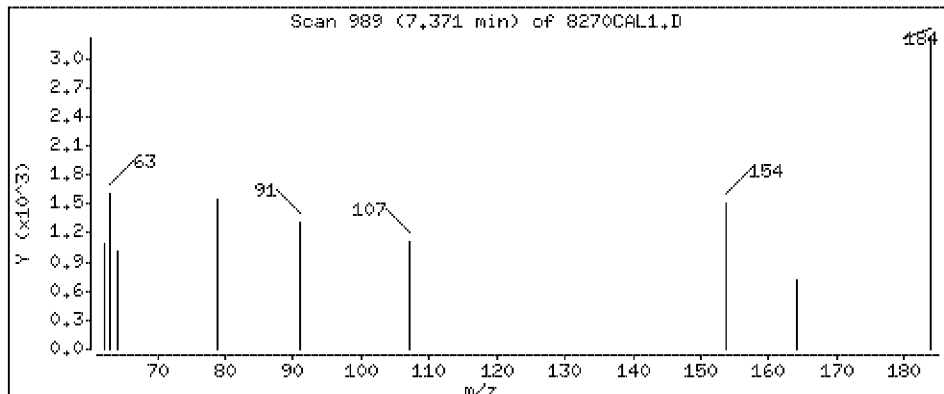
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

72 2,4-Dinitrophenol

Concentration: 7.7 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

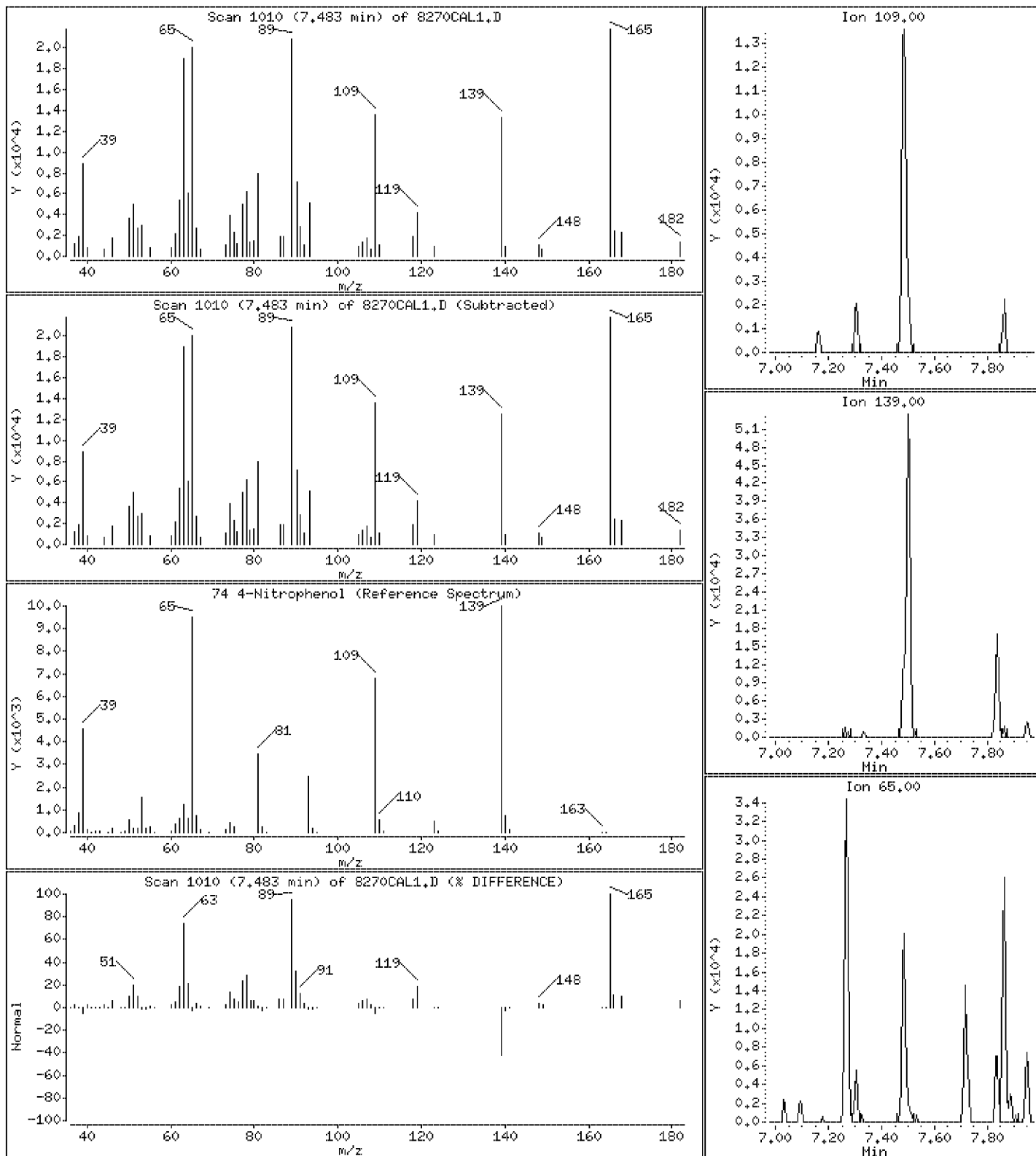
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

74 4-Nitrophenol

Concentration: 3.2 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

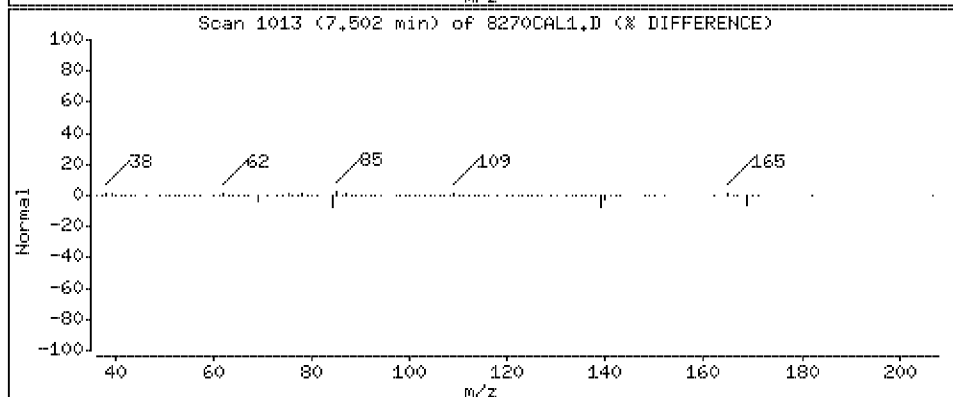
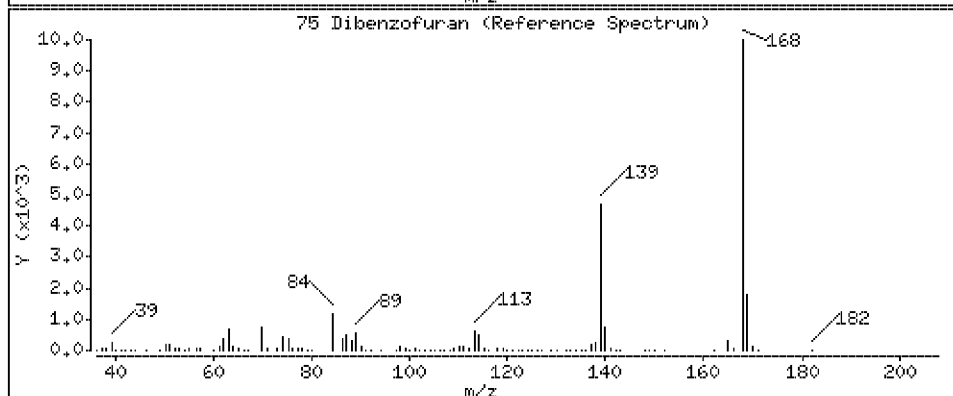
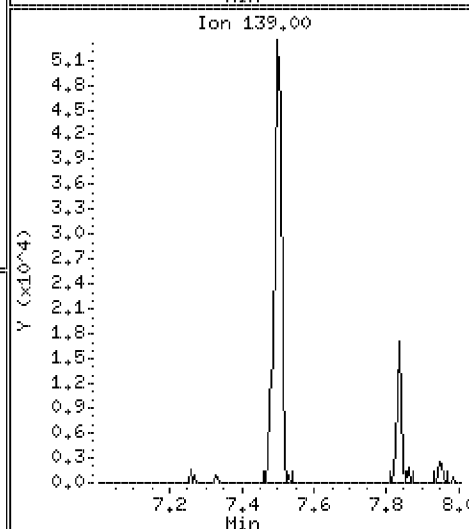
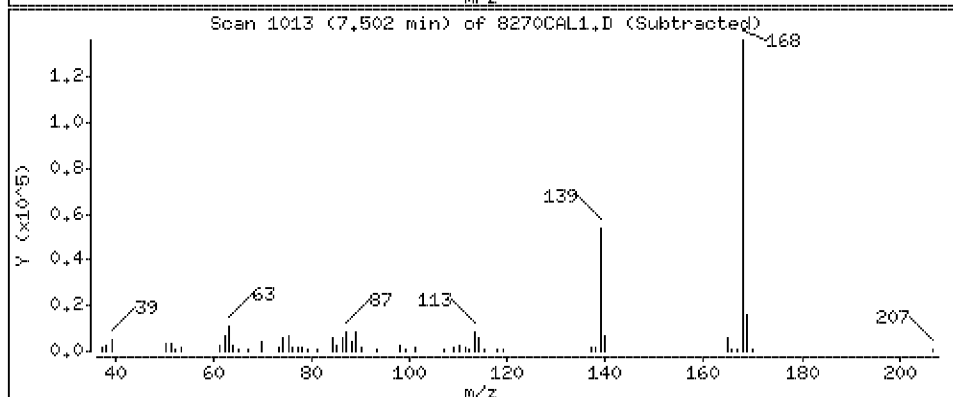
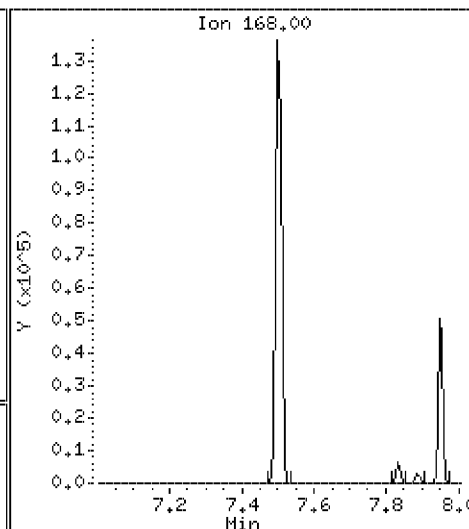
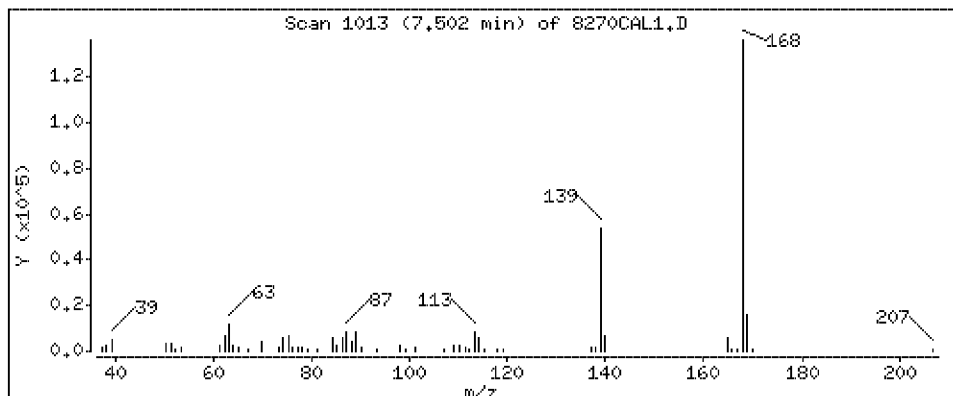
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

75 Dibenzofuran

Concentration: 3.9 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

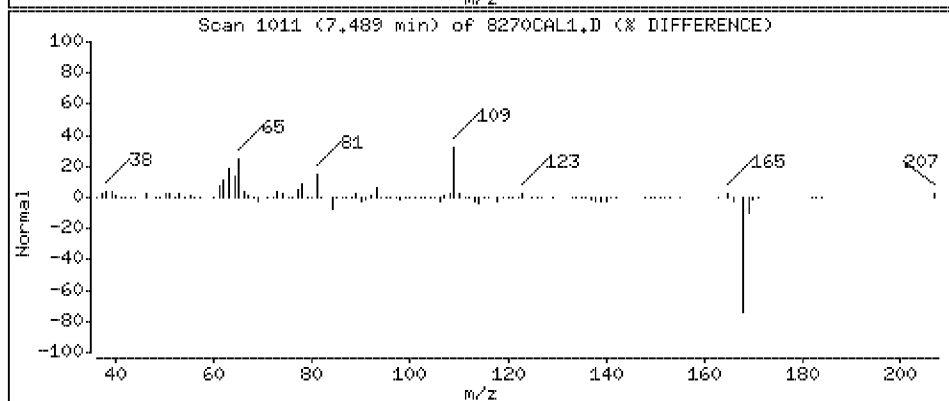
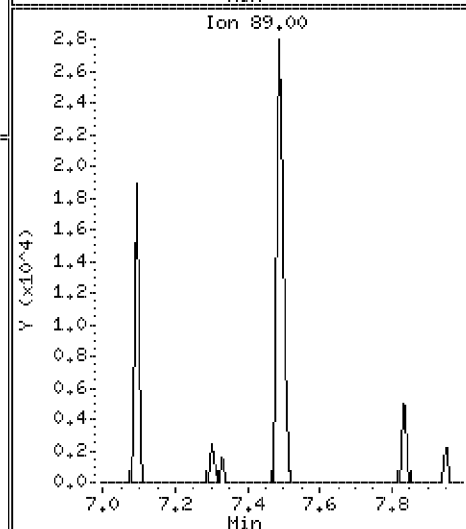
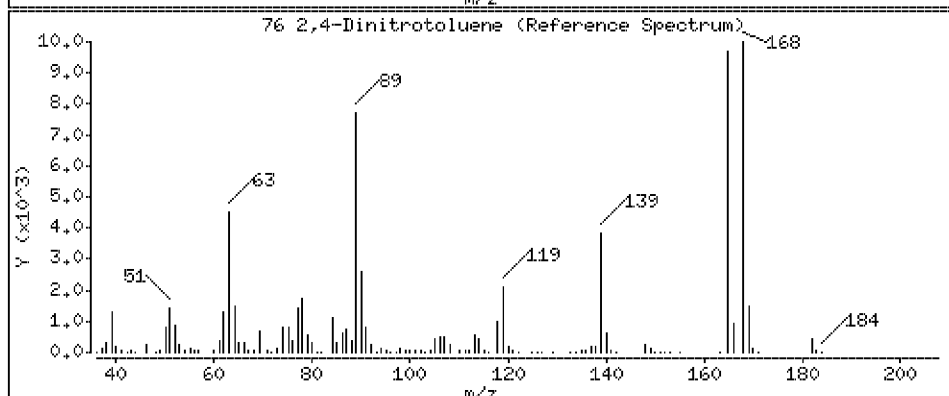
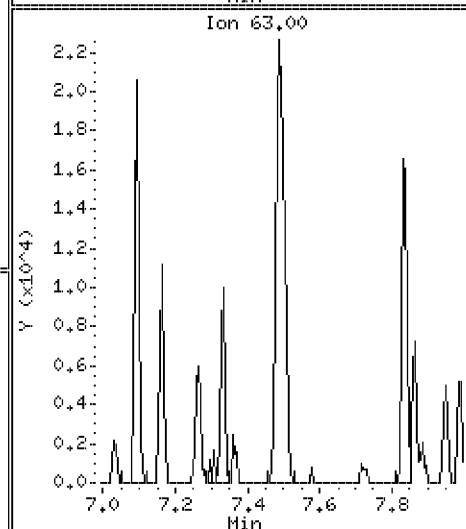
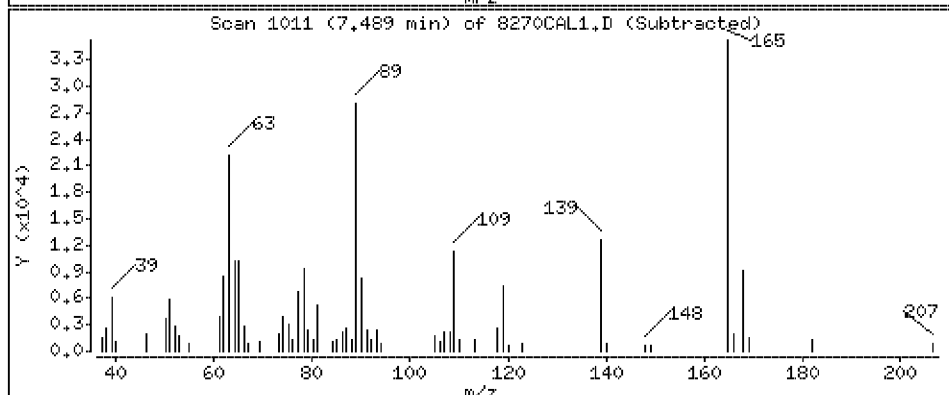
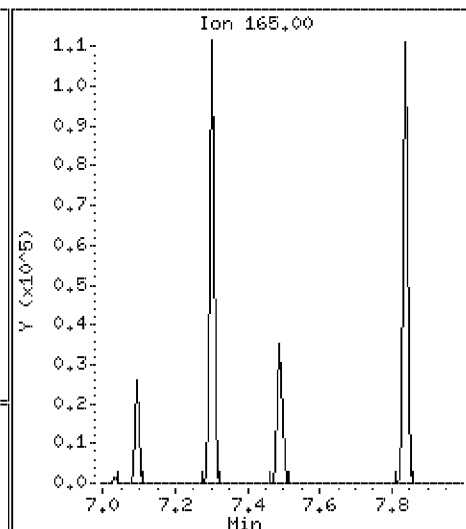
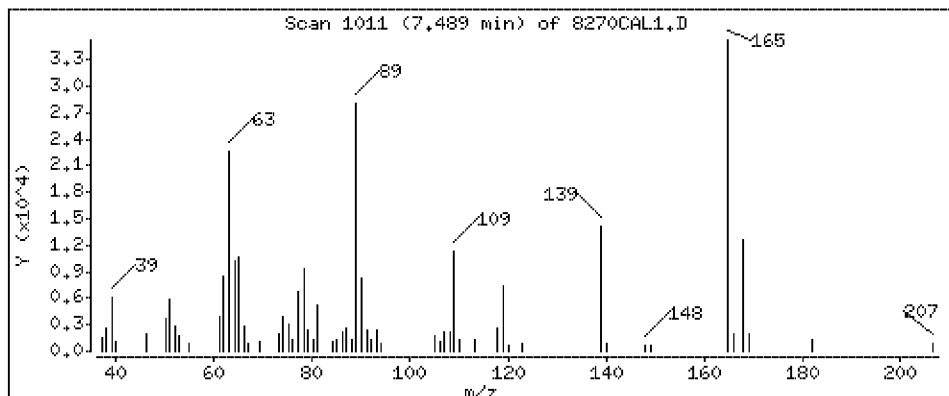
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

76 2,4-Dinitrotoluene

Concentration: 3.5 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

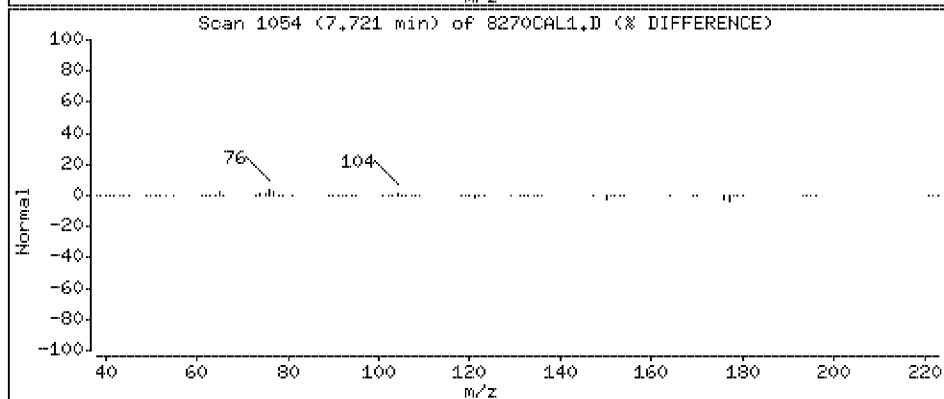
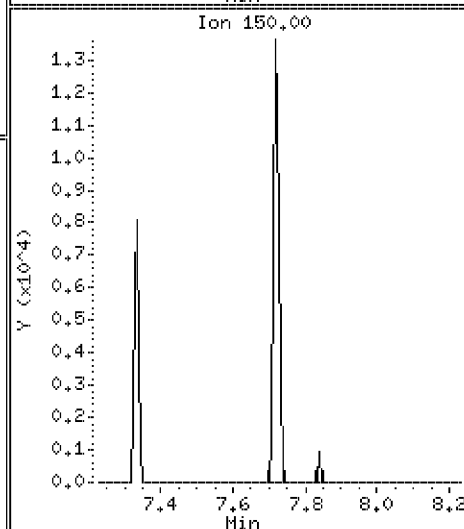
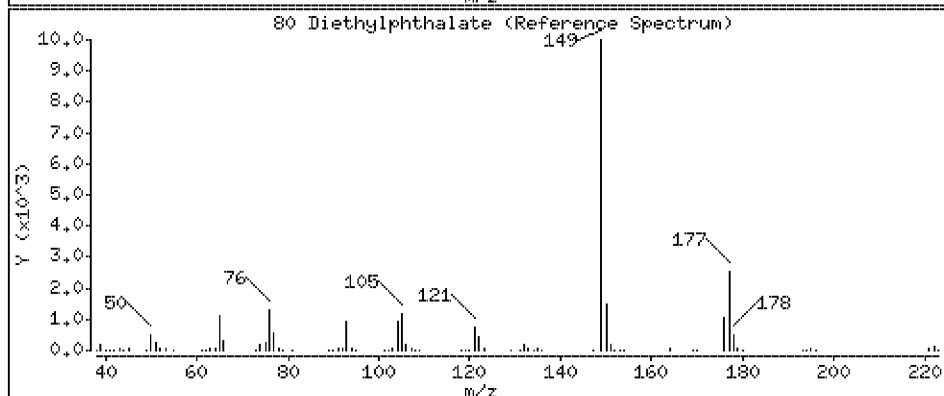
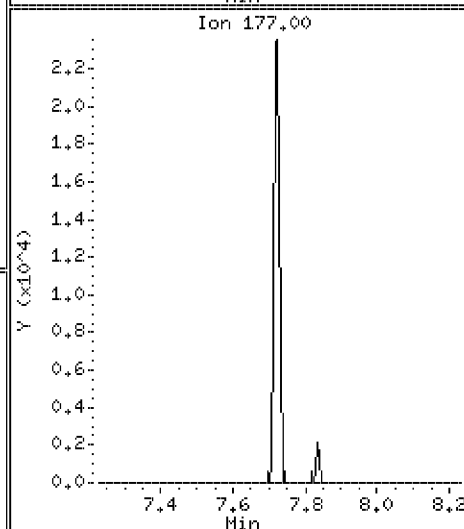
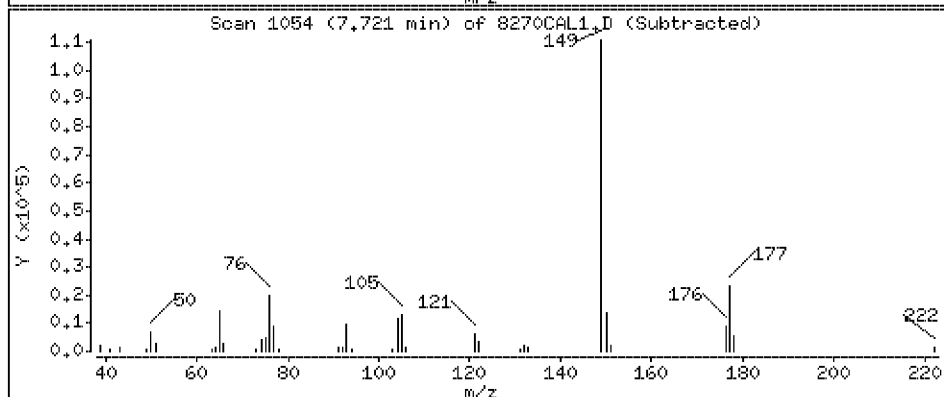
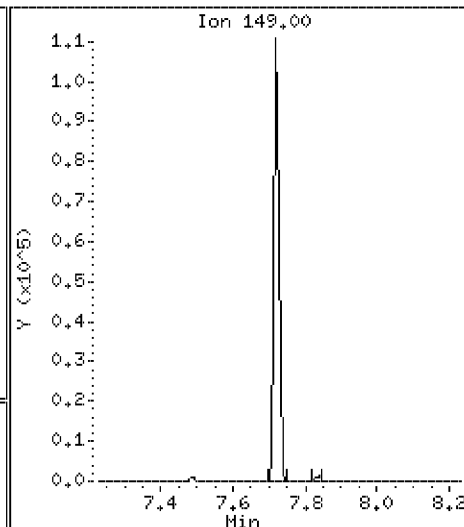
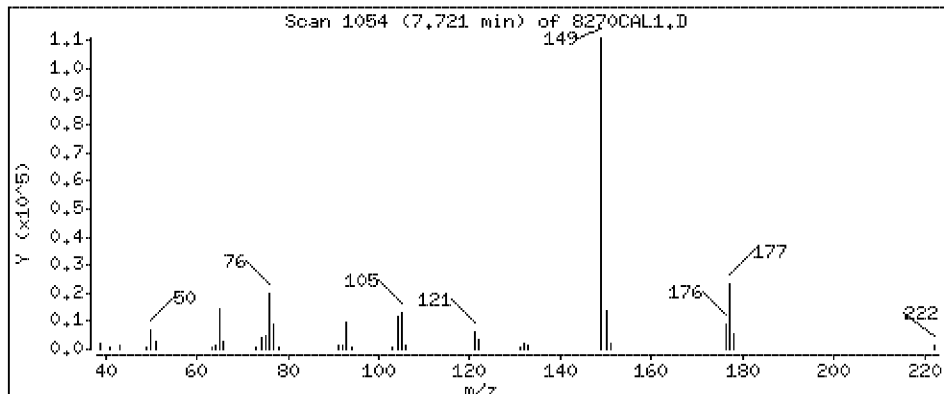
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

80 Diethylphthalate

Concentration: 4.0 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

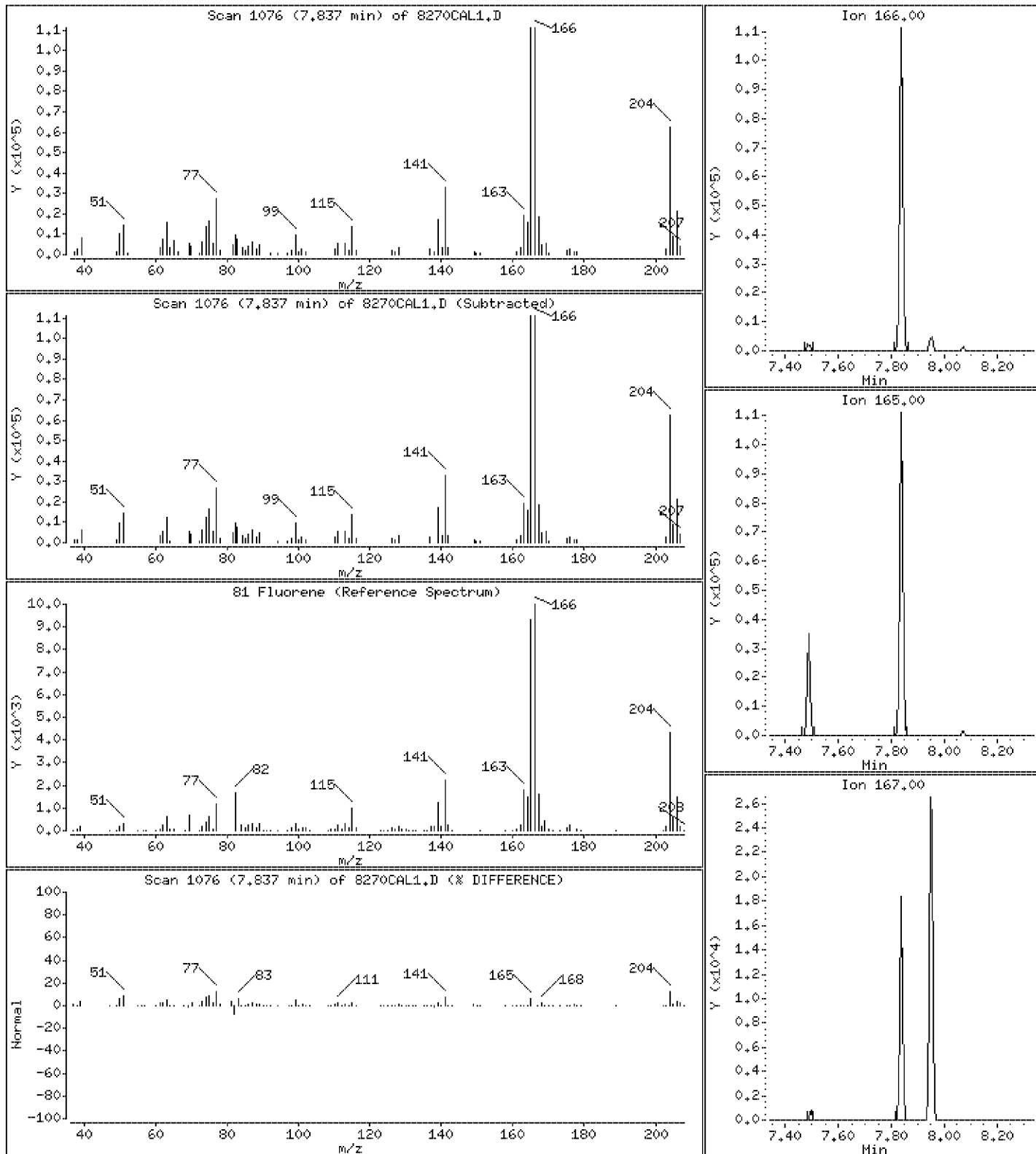
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

81 Fluorene

Concentration: 3.5 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

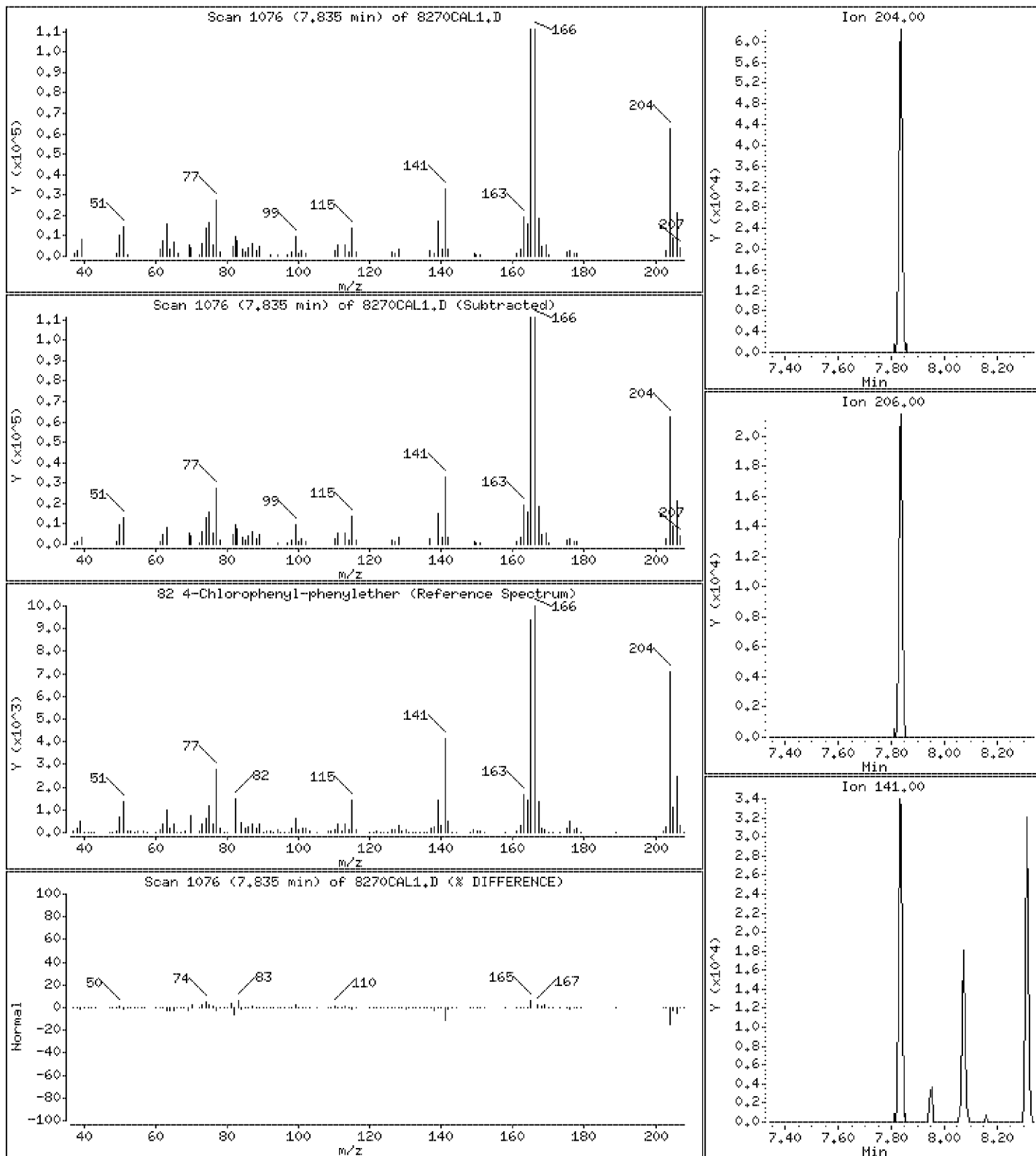
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

82 4-Chlorophenyl-phenylether

Concentration: 3.4 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

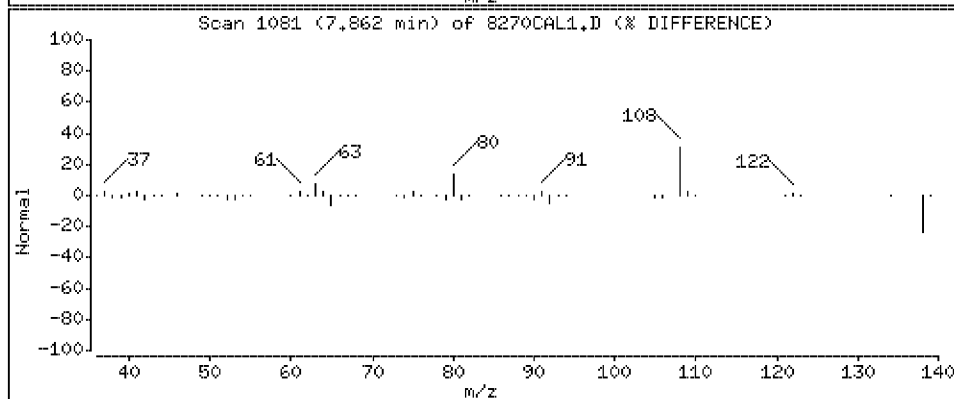
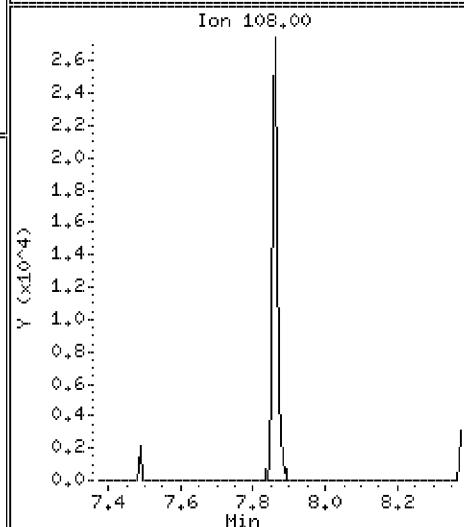
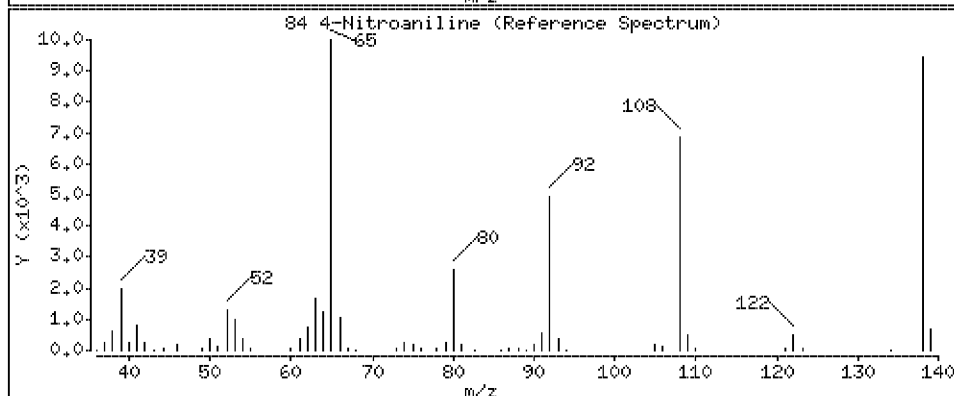
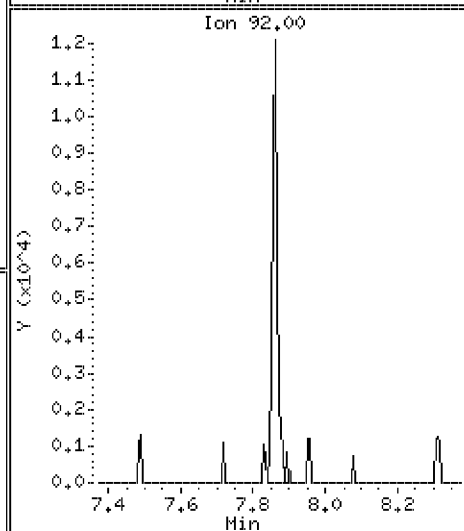
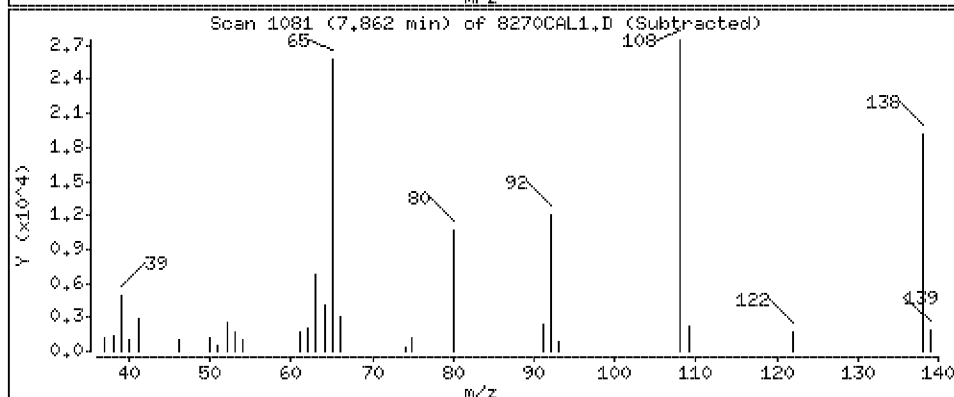
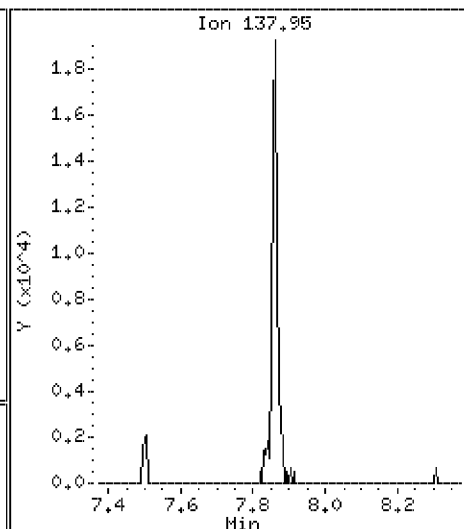
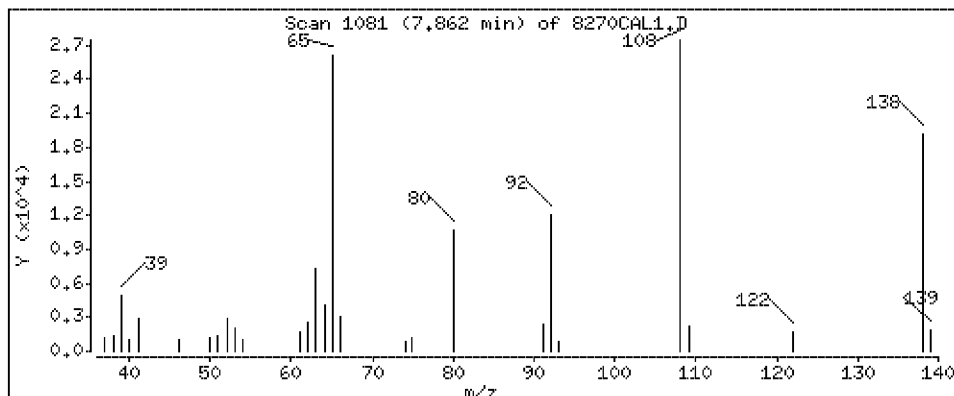
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

84 4-Nitroaniline

Concentration: 4.5 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

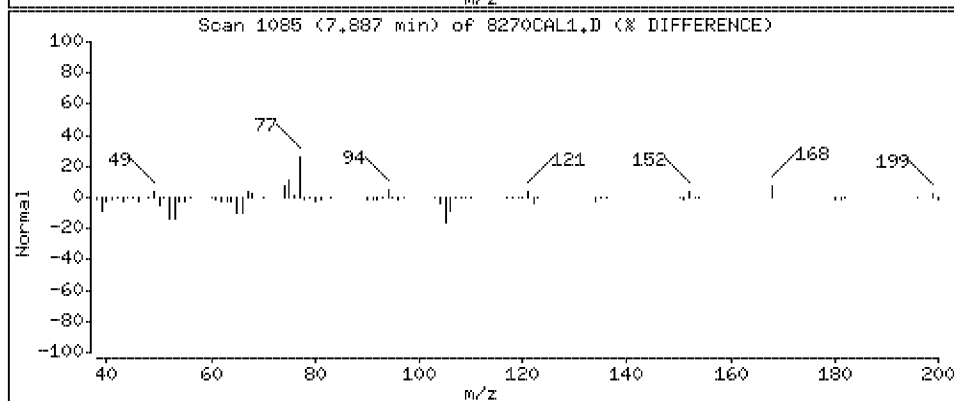
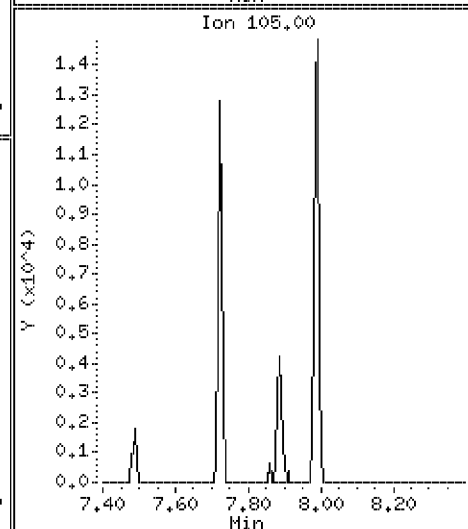
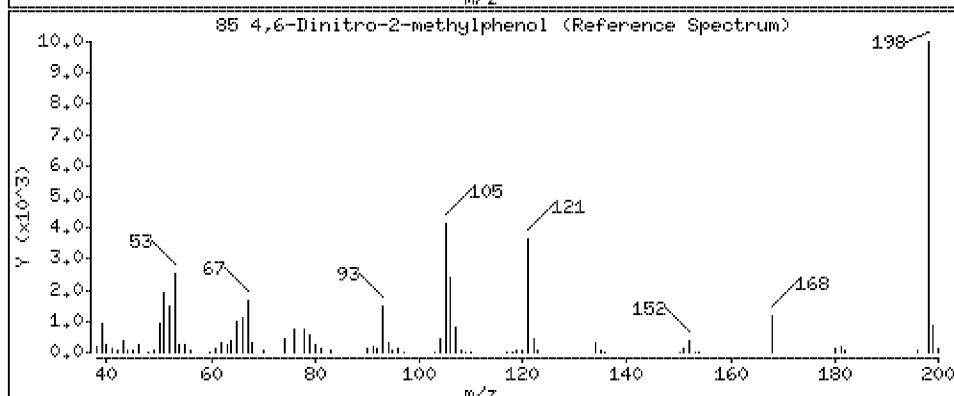
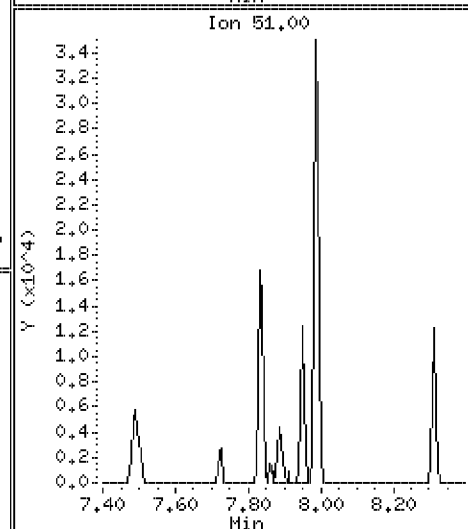
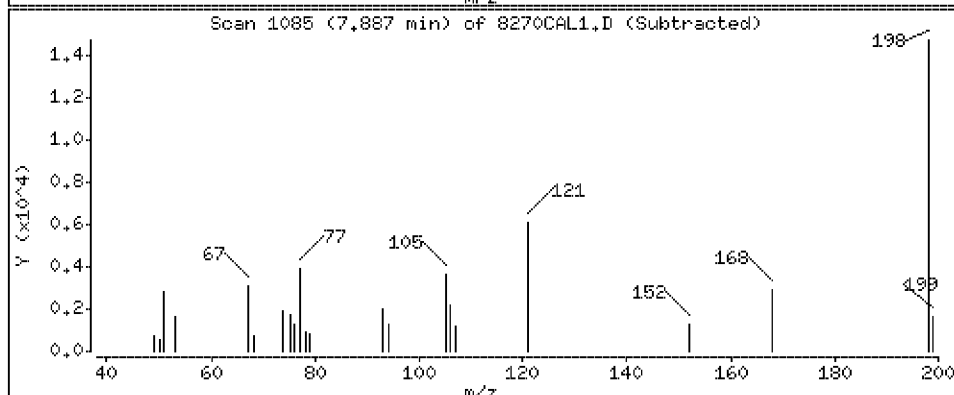
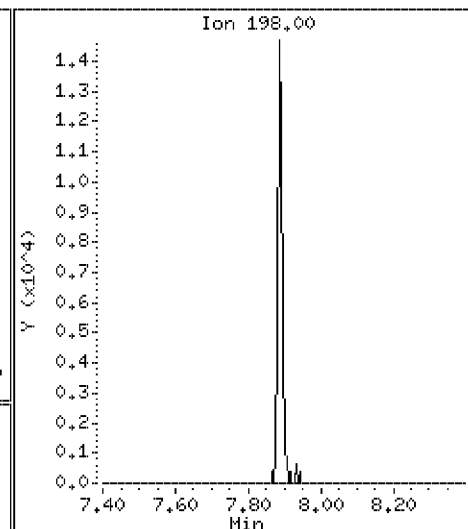
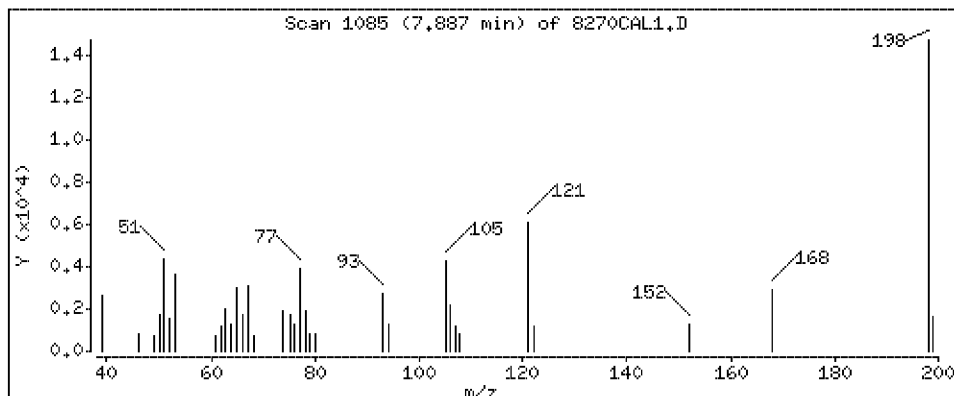
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

85 4,6-Dinitro-2-methylphenol

Concentration: 5.9 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

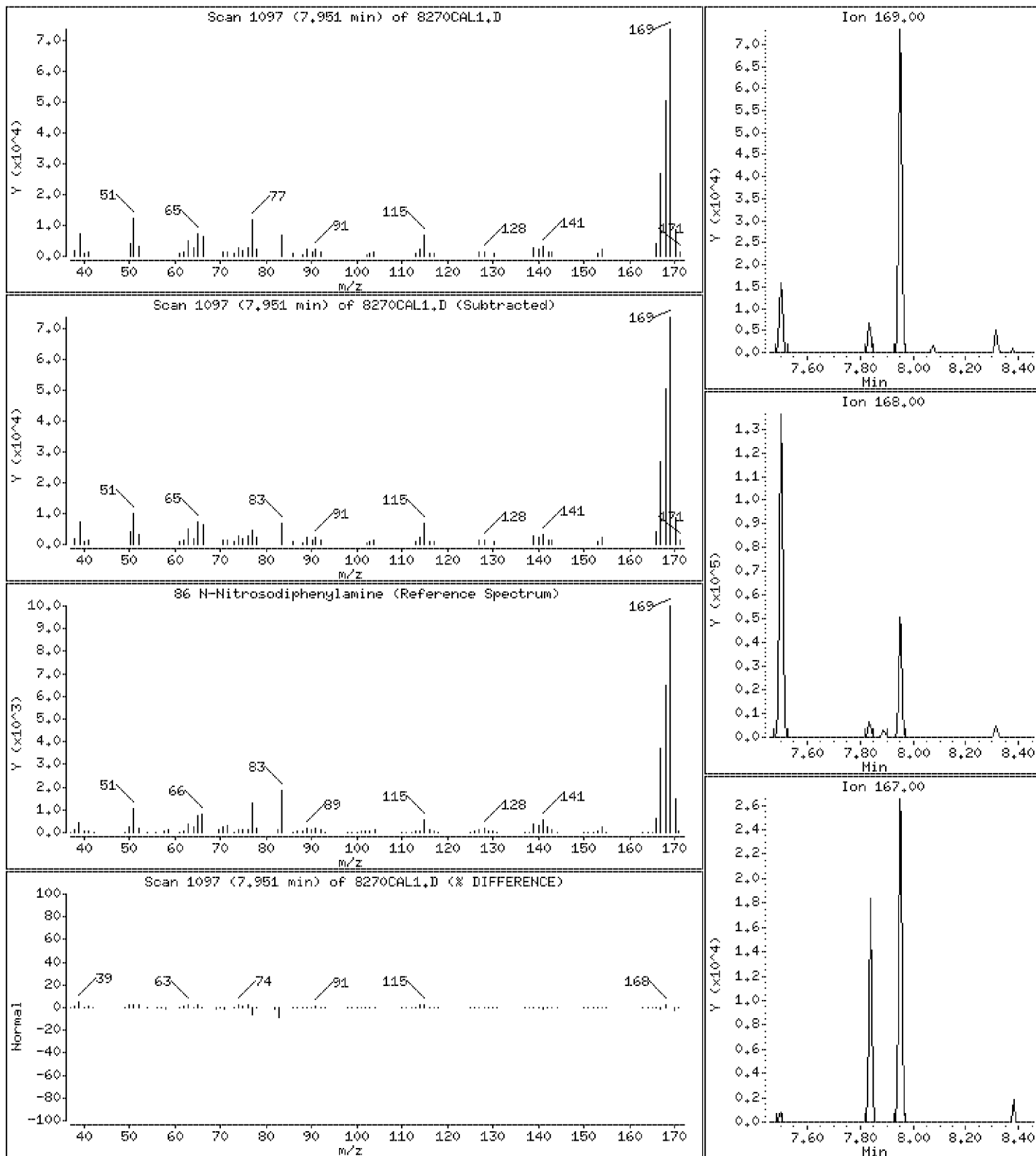
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

86 N-Nitrosodiphenylamine

Concentration: 3.8 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

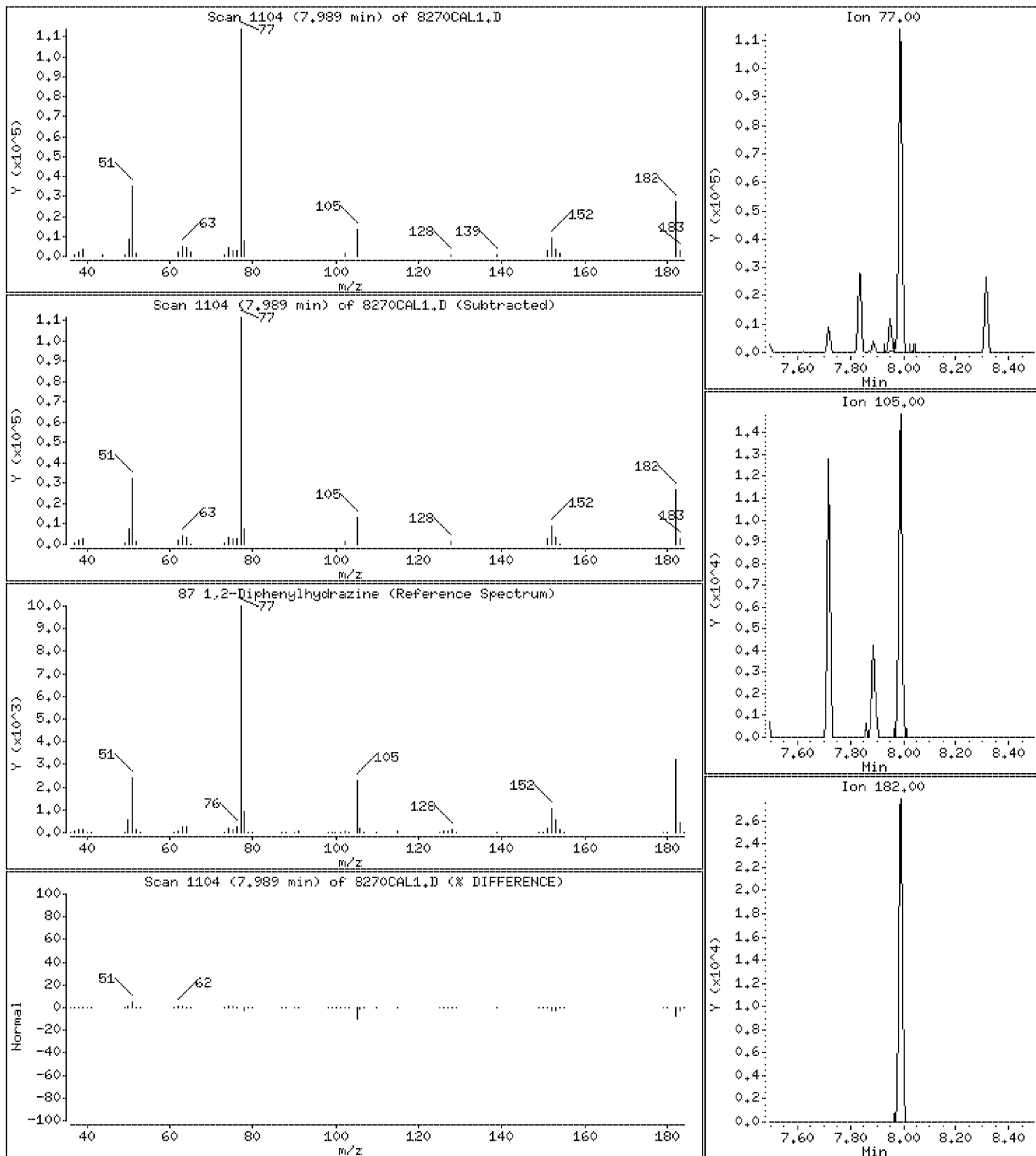
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

87 1,2-Diphenylhydrazine

Concentration: 4.0 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

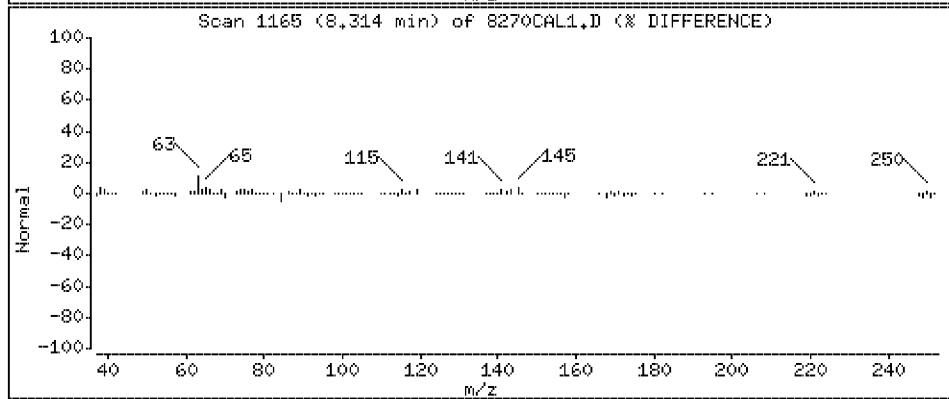
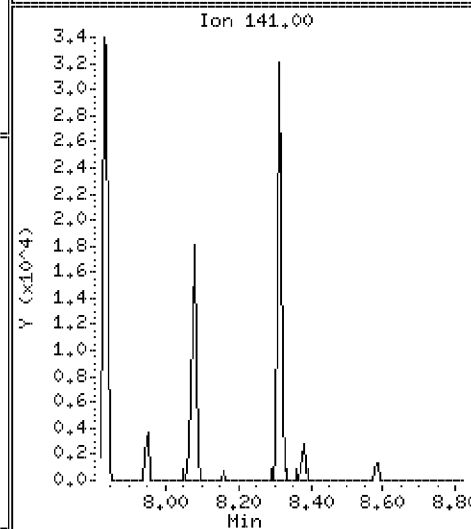
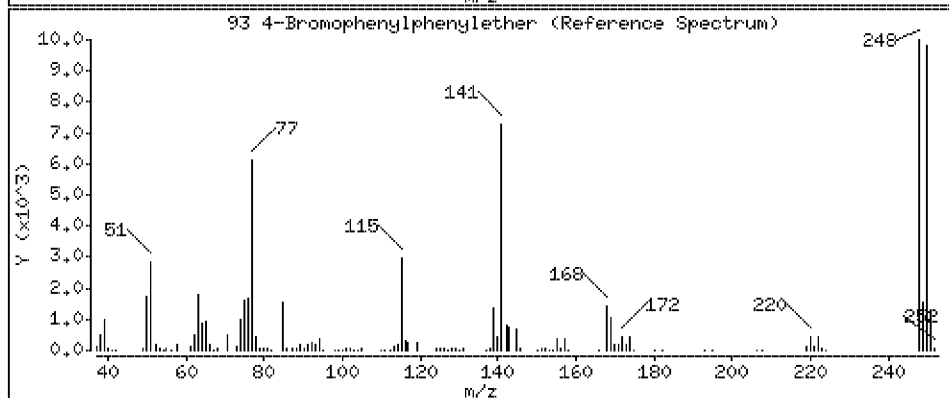
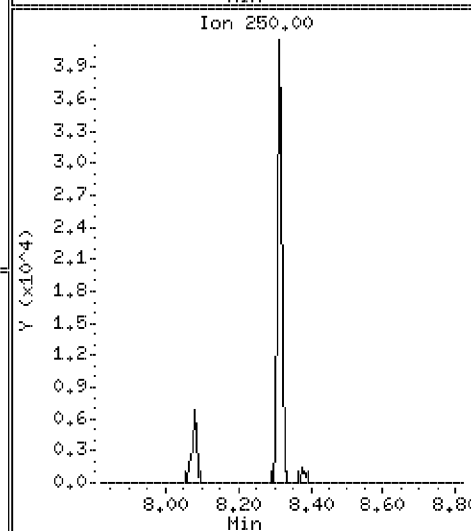
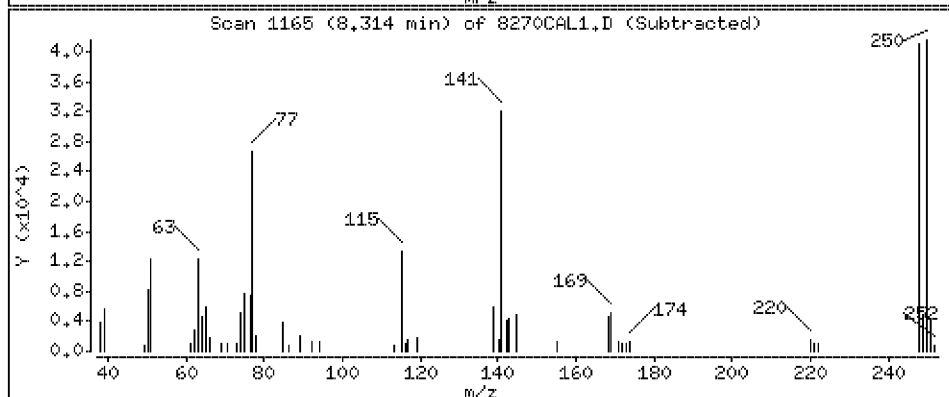
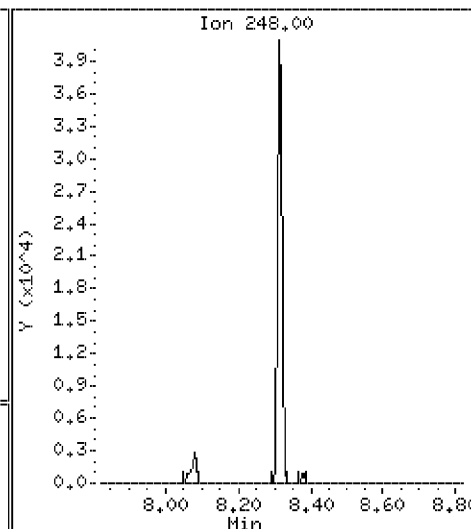
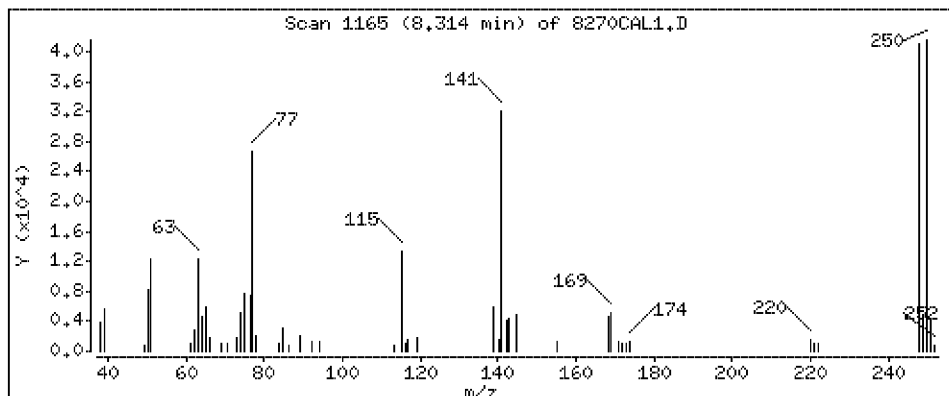
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

93 4-Bromophenylphenylether

Concentration: 3.7 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

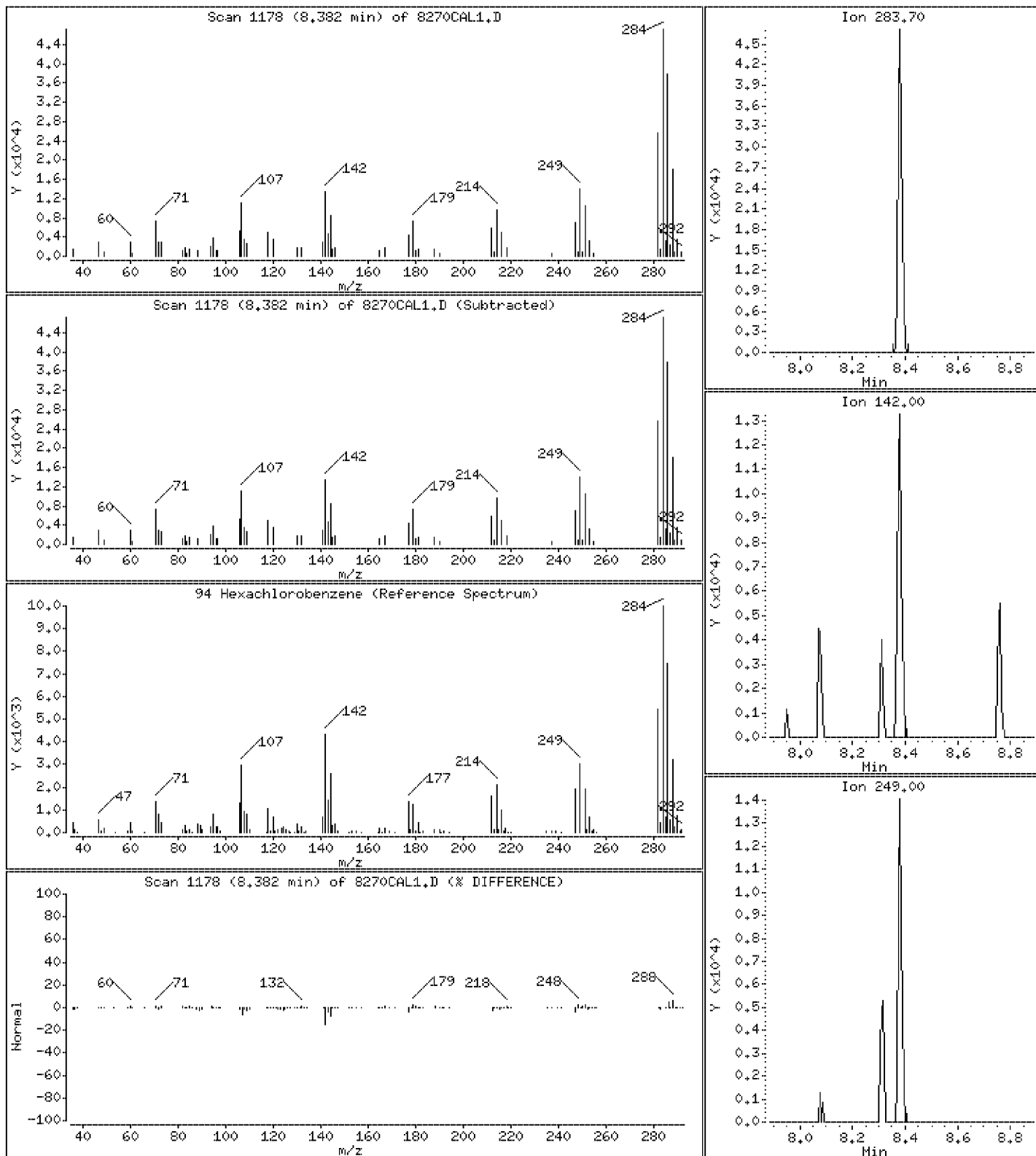
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

94 Hexachlorobenzene

Concentration: 3.8 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

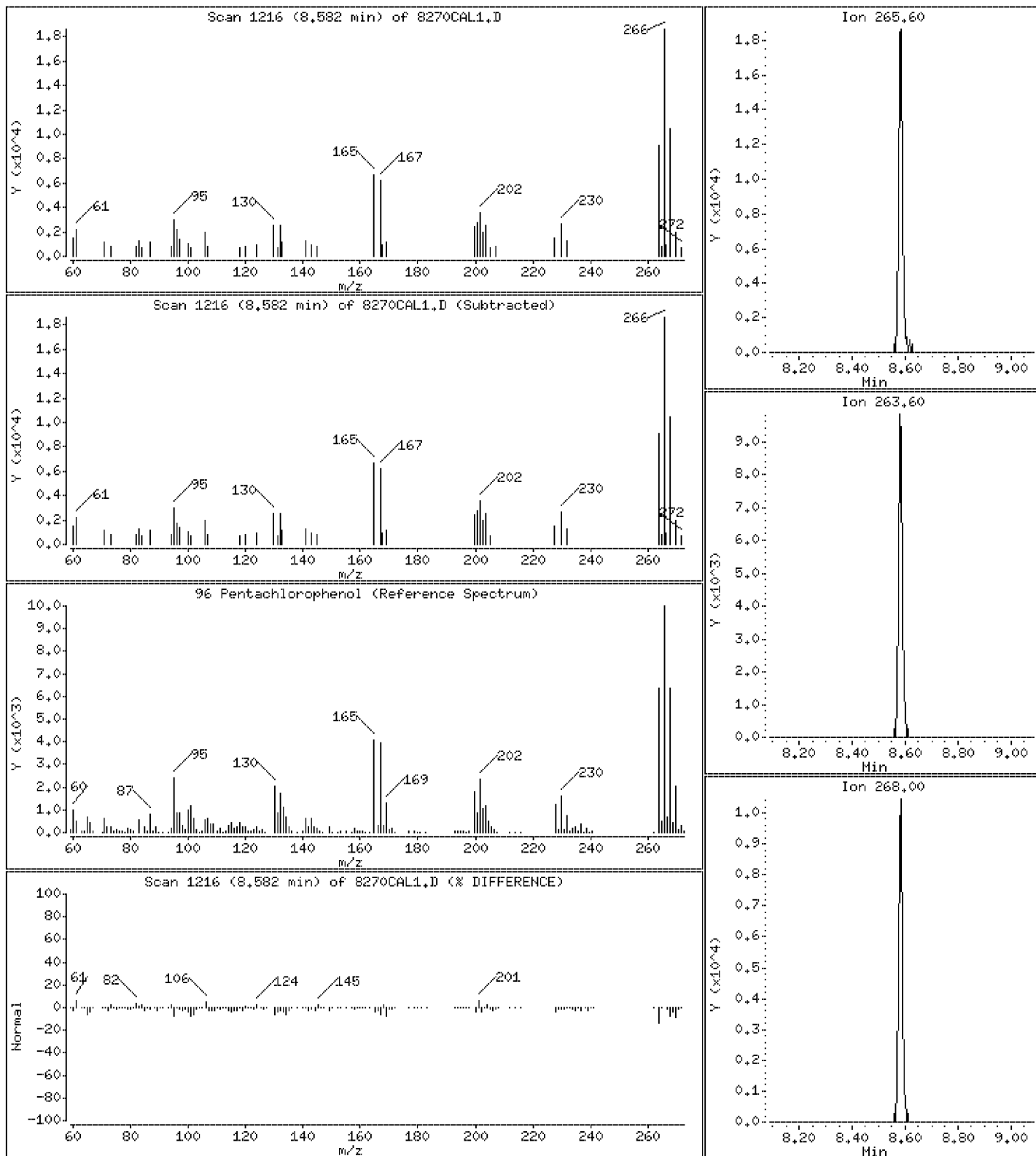
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

96 Pentachlorophenol

Concentration: 2.9 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

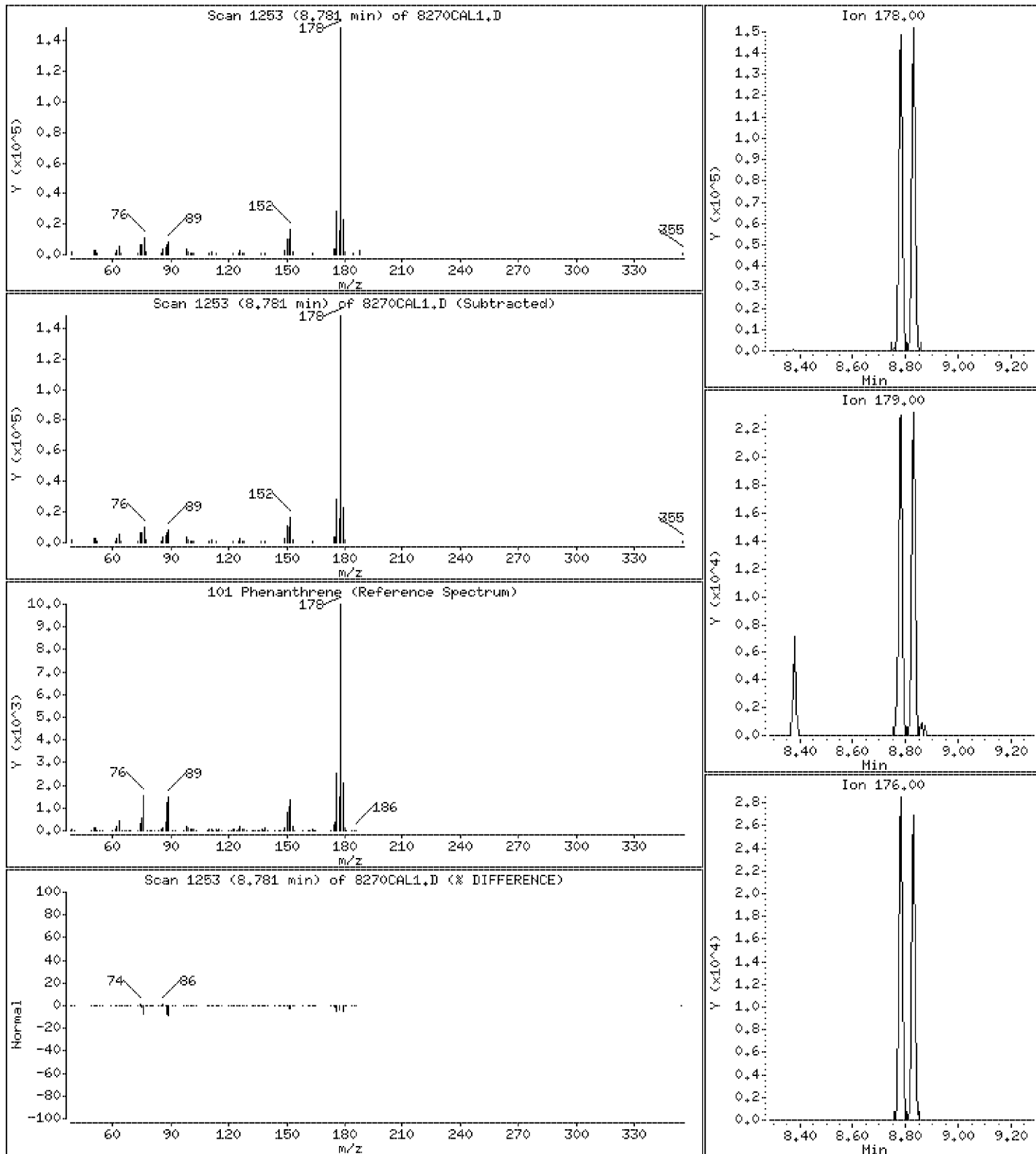
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

101 Phenanthrene

Concentration: 4.0 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

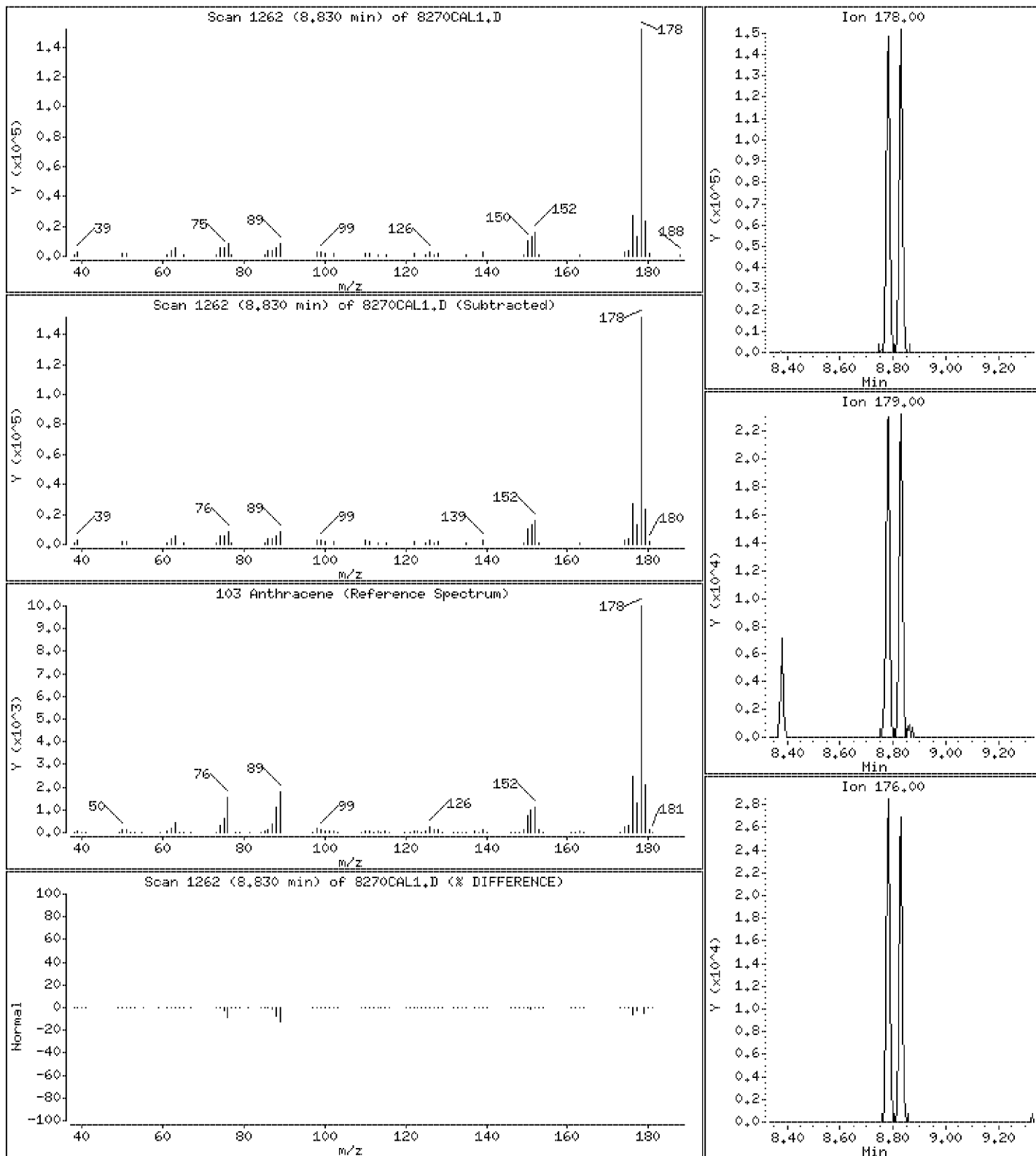
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

103 Anthracene

Concentration: 3.9 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

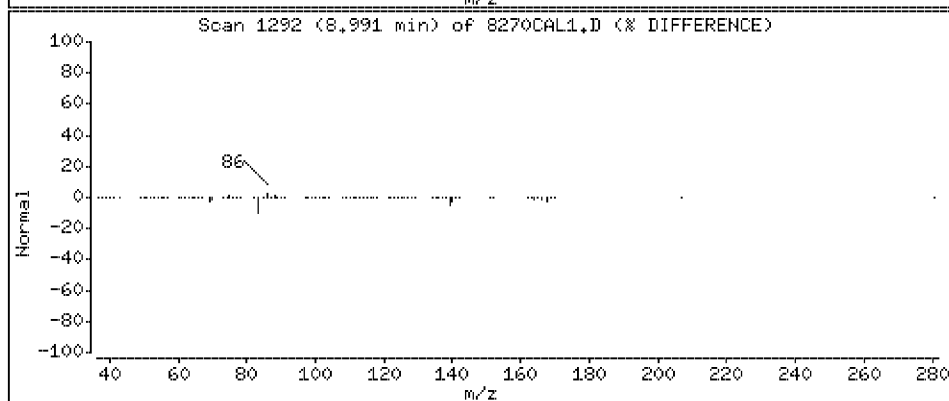
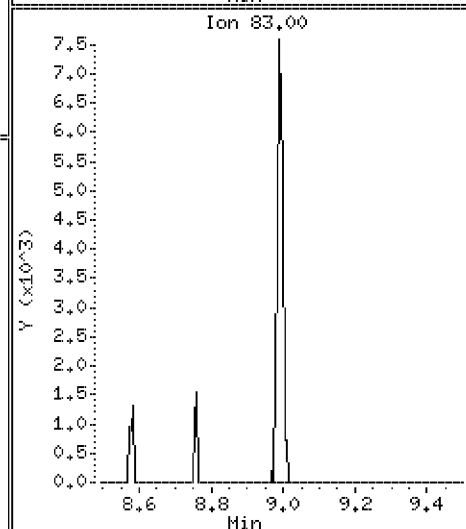
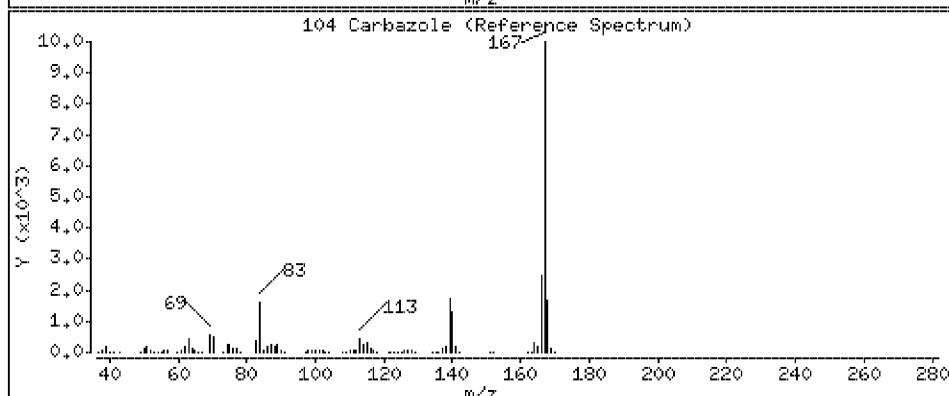
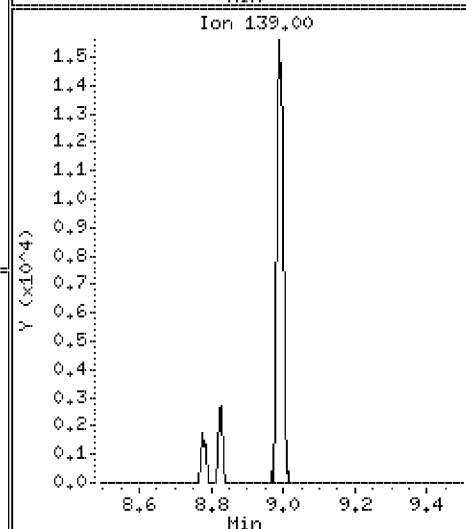
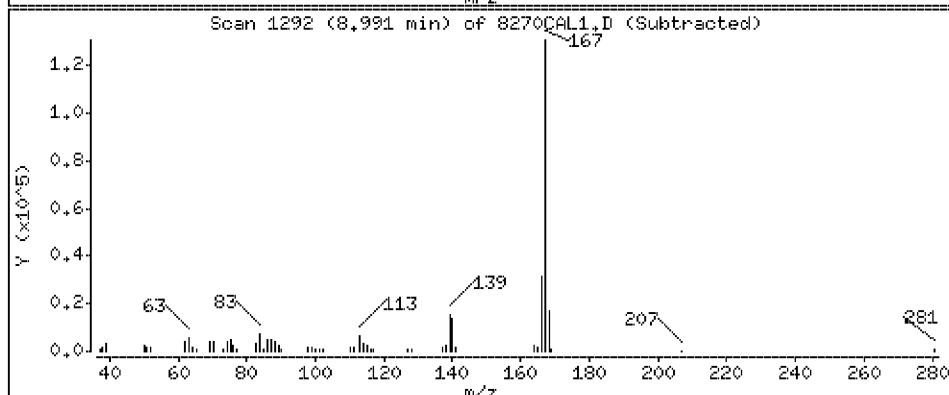
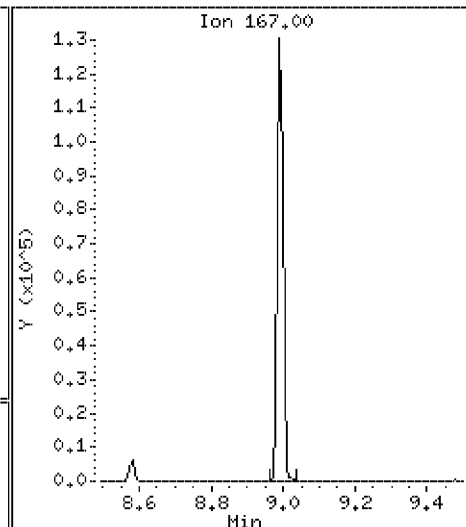
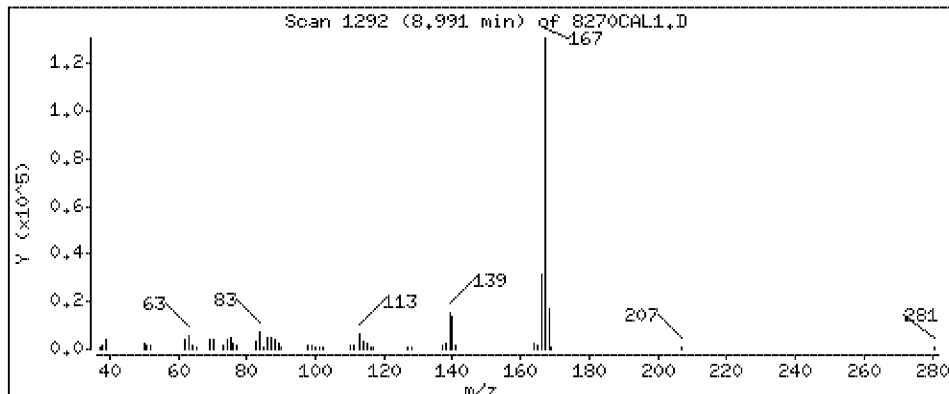
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

104 Carbazole

Concentration: 4.1 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

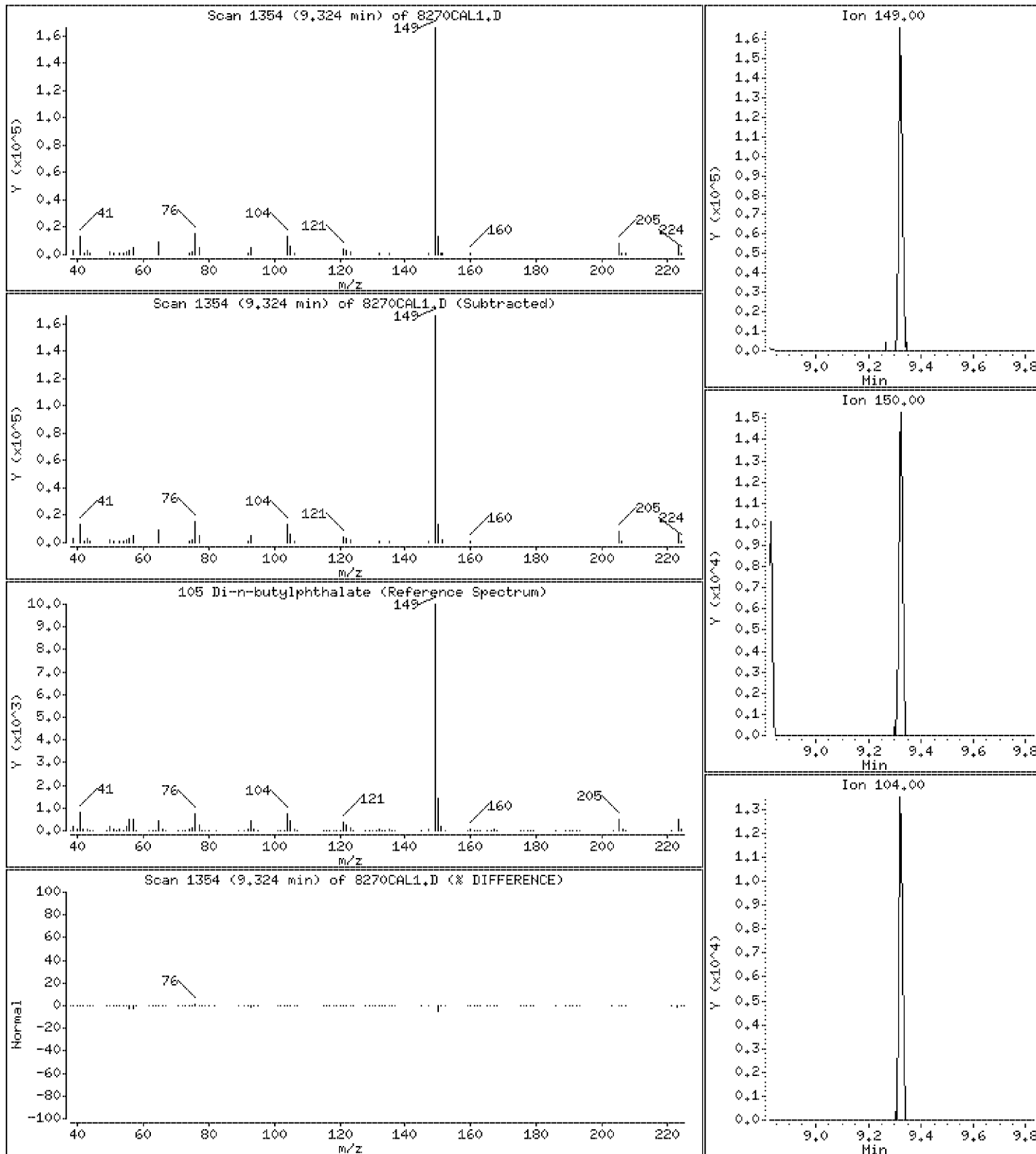
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

105 Di-n-butylphthalate

Concentration: 3.7 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

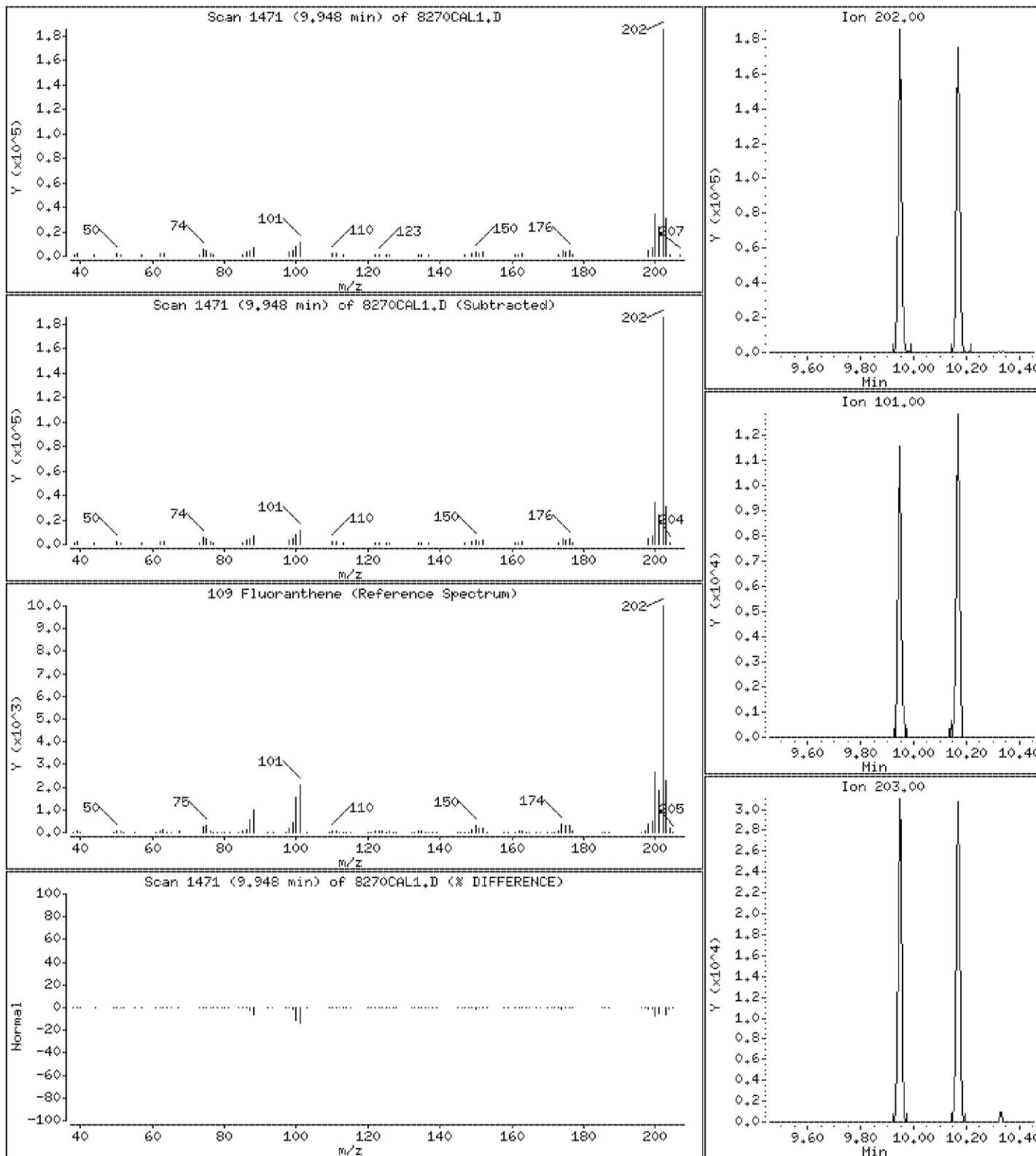
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

109 Fluoranthene

Concentration: 4.1 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

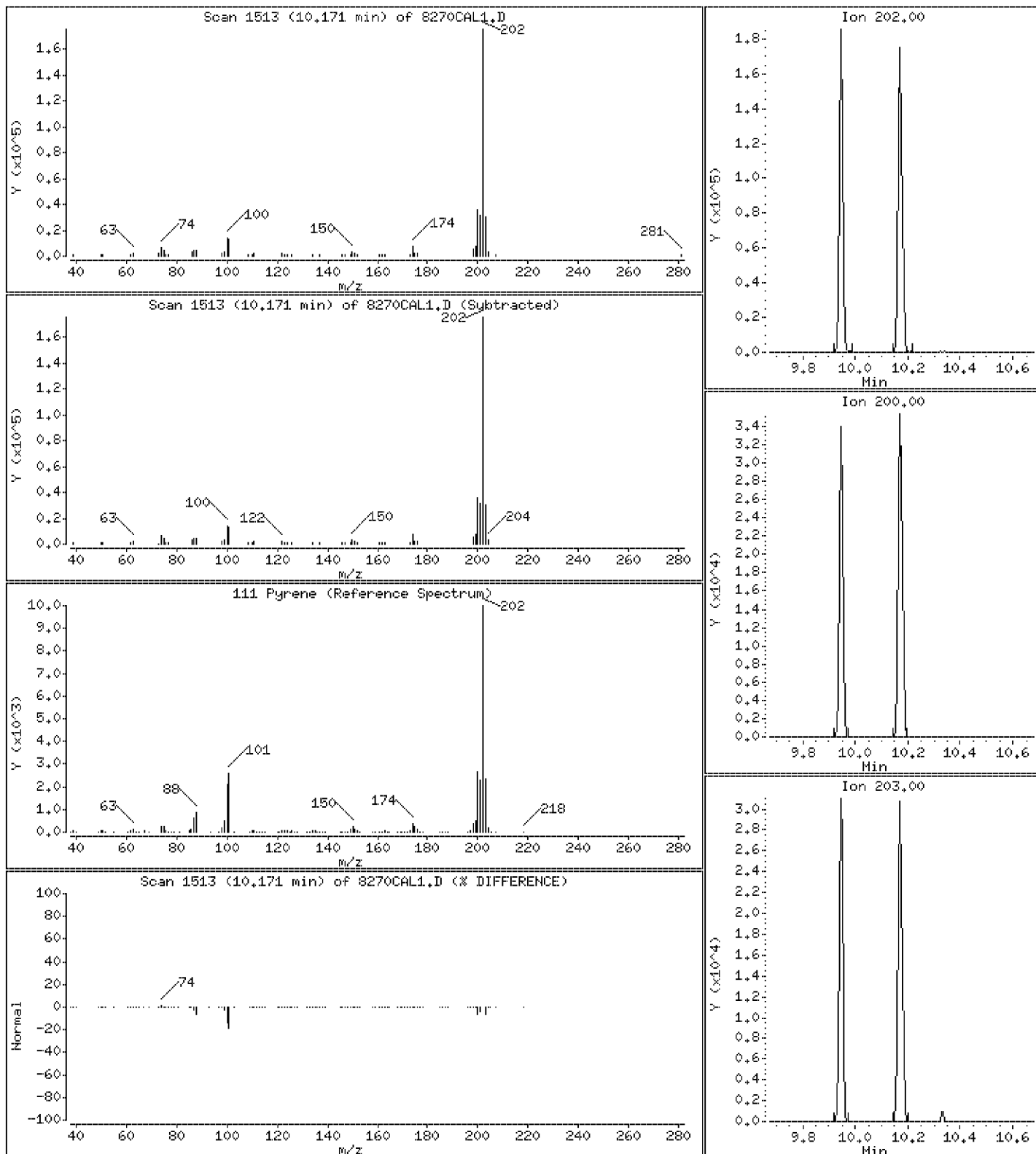
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

111 Pyrene

Concentration: 4.6 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

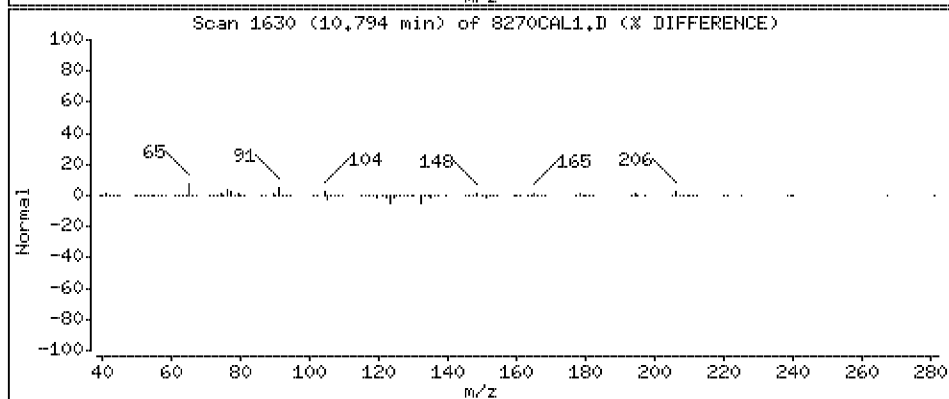
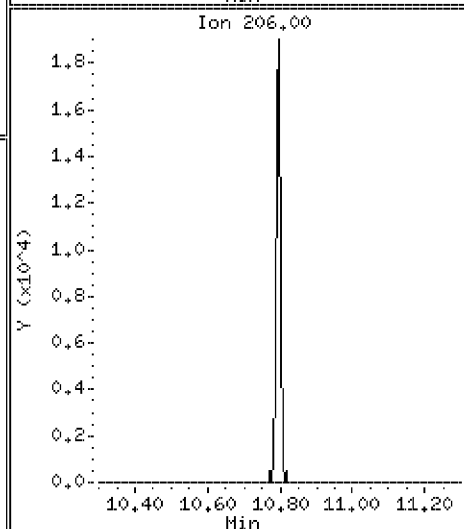
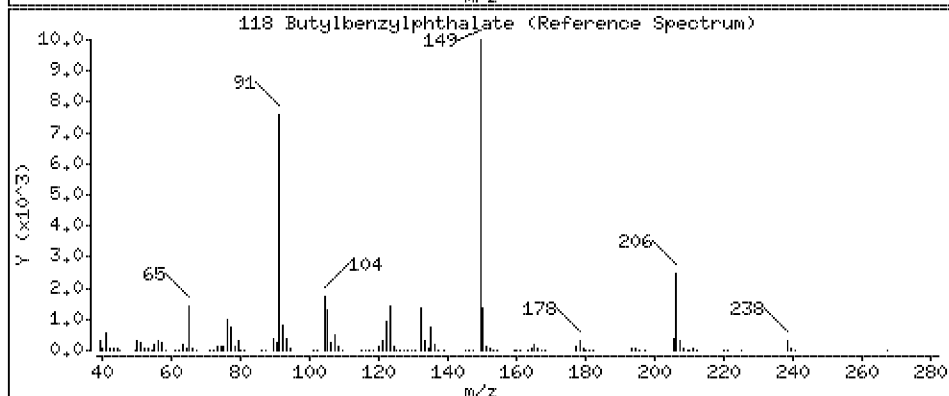
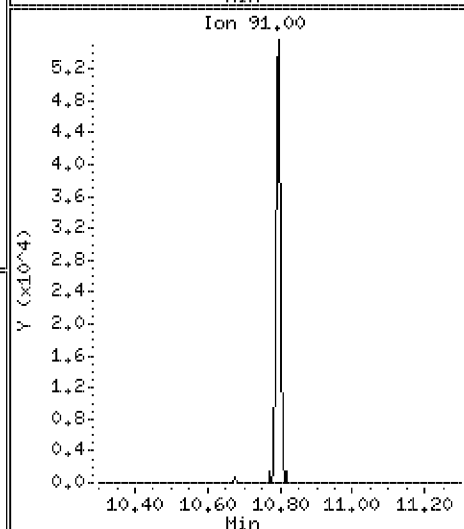
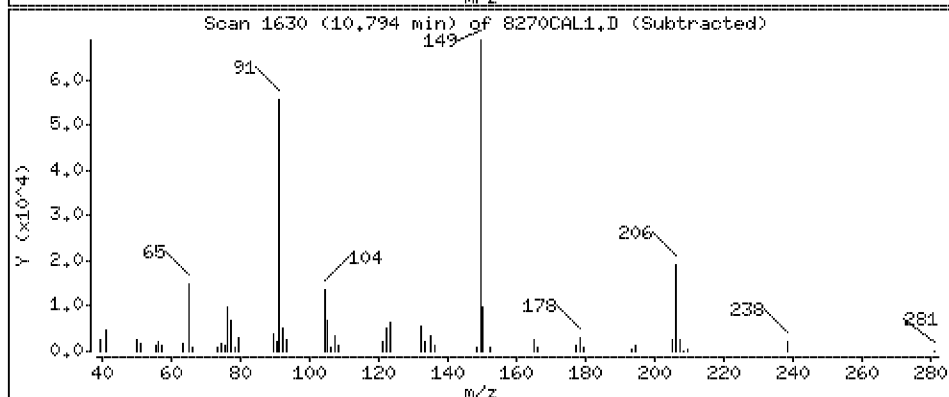
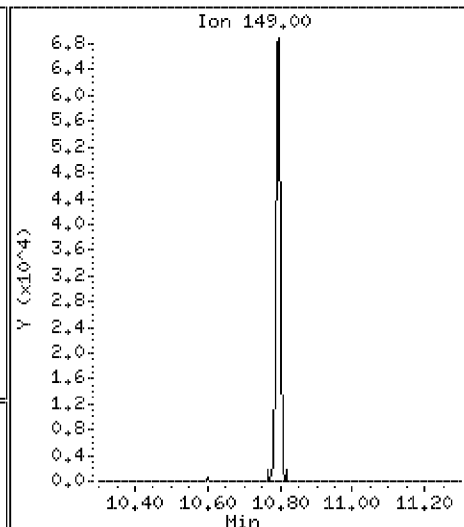
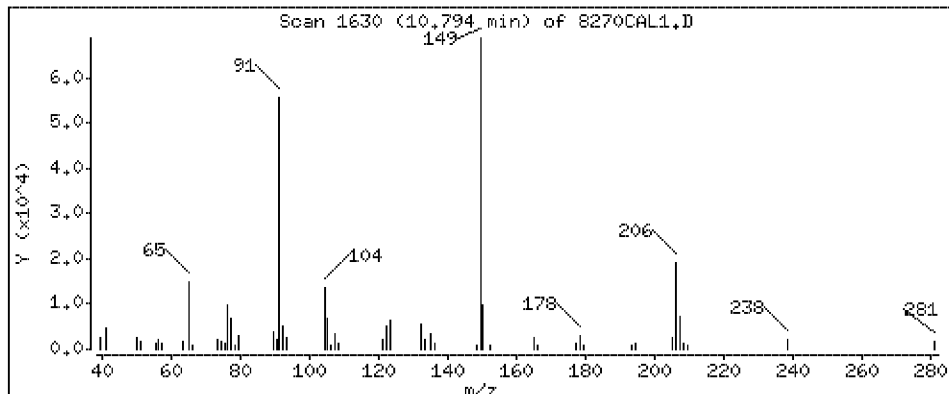
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

118 Butylbenzylphthalate

Concentration: 3.9 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

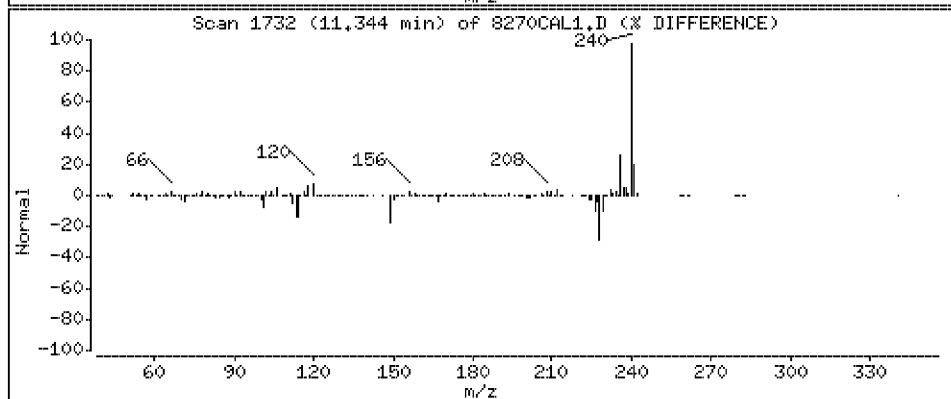
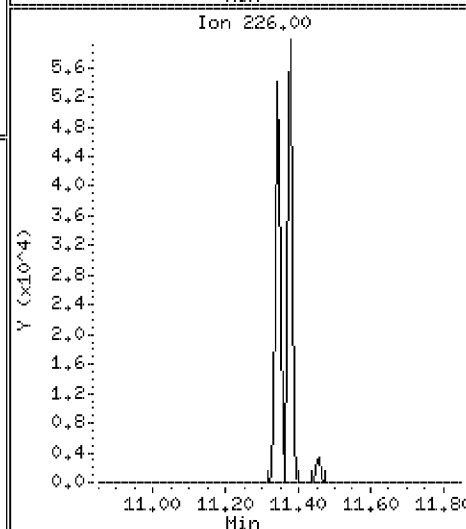
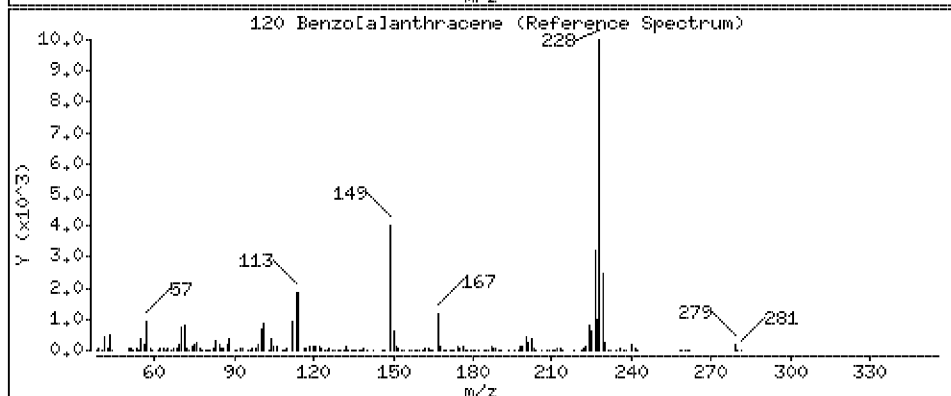
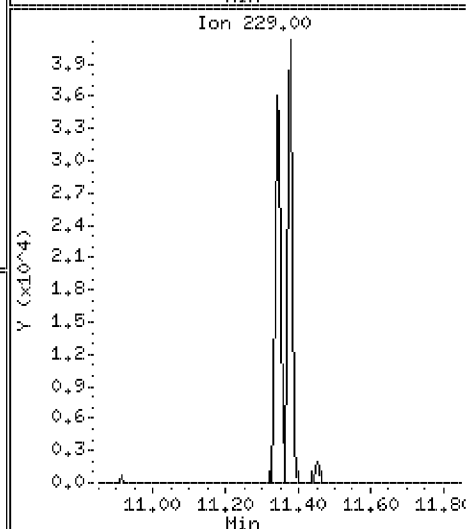
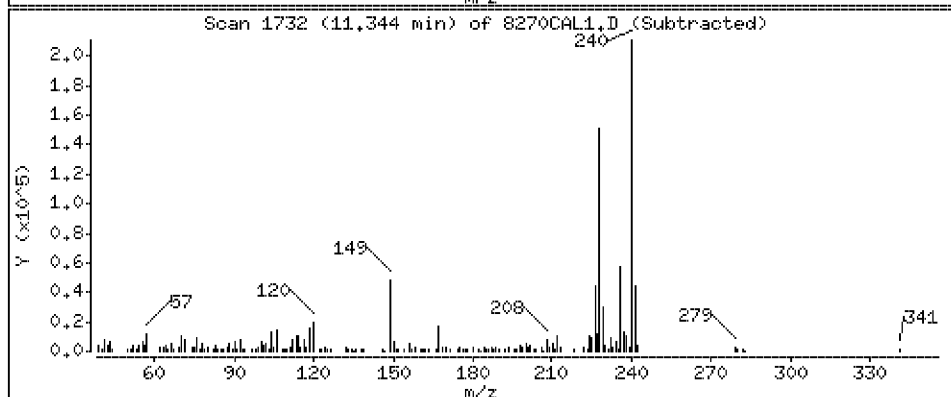
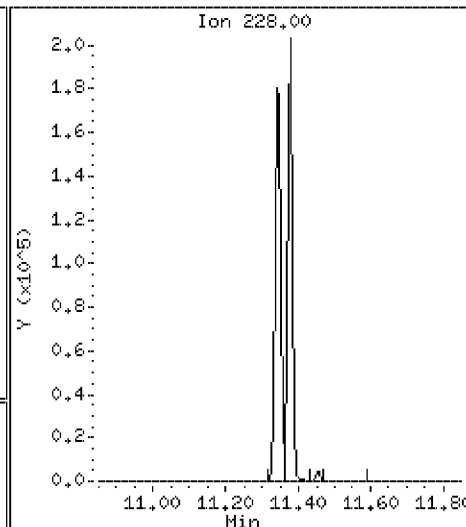
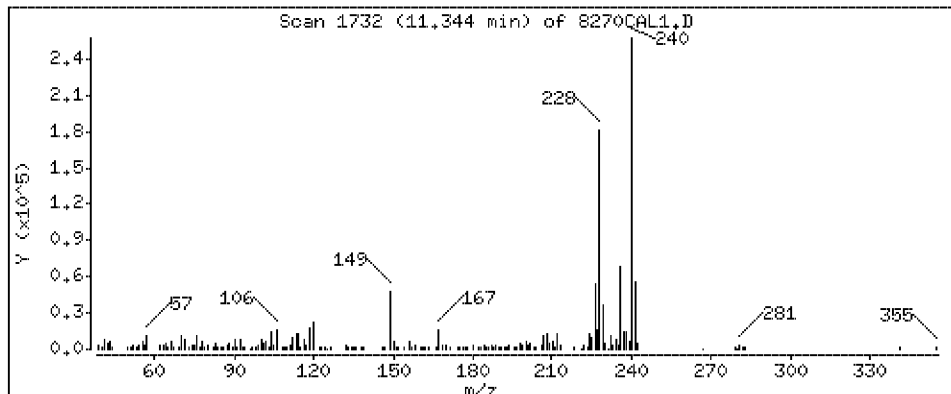
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

120 Benzo[*a*]anthracene

Concentration: 4.4 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

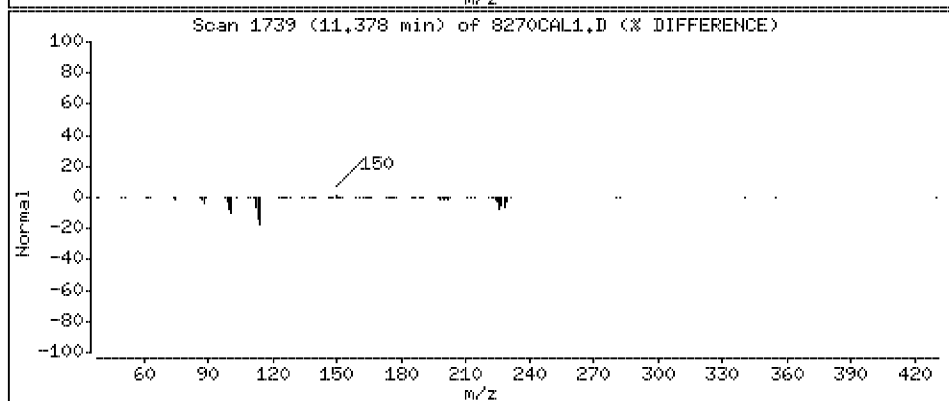
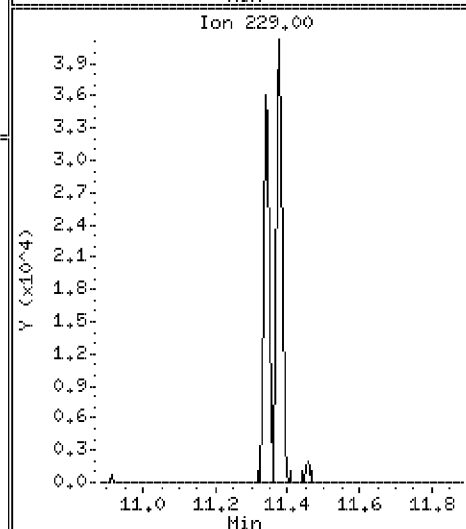
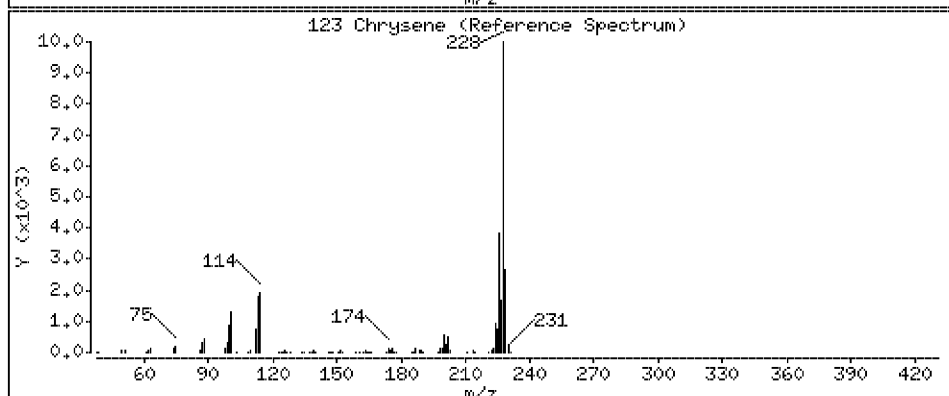
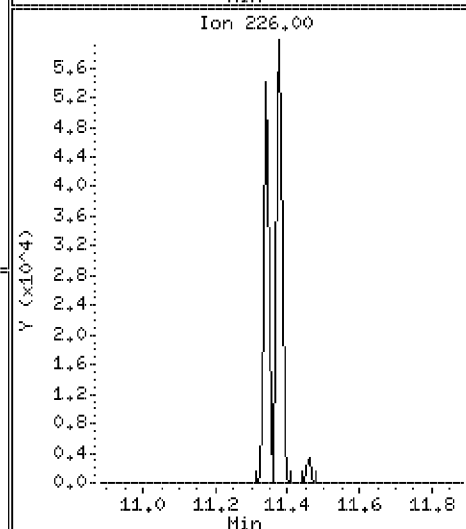
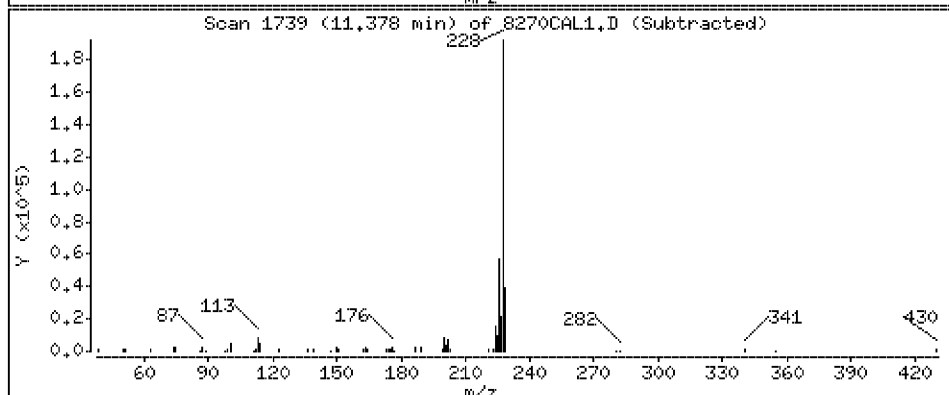
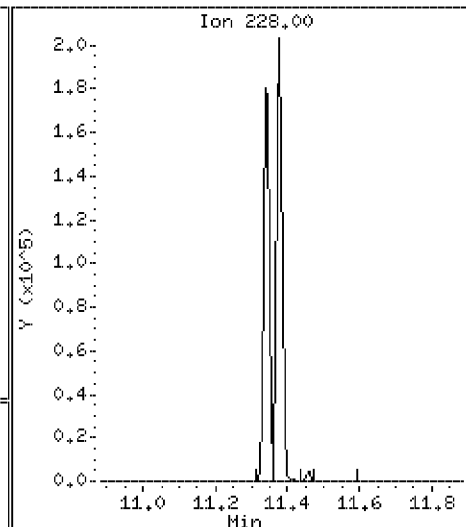
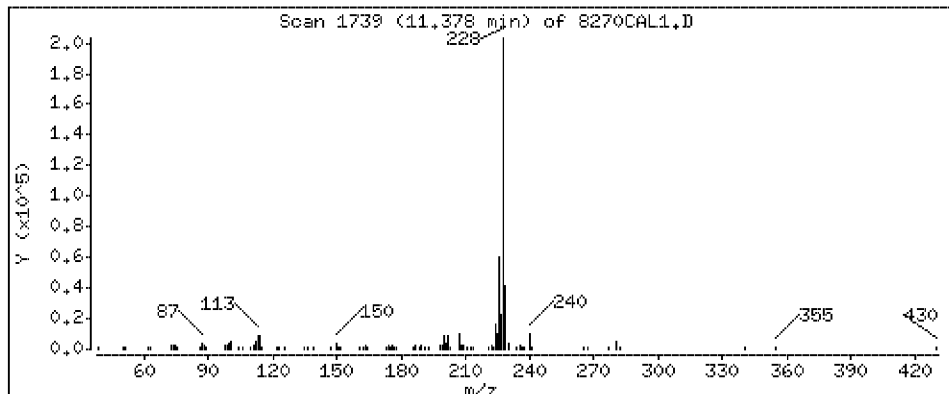
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

123 Chrysene

Concentration: 4.6 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

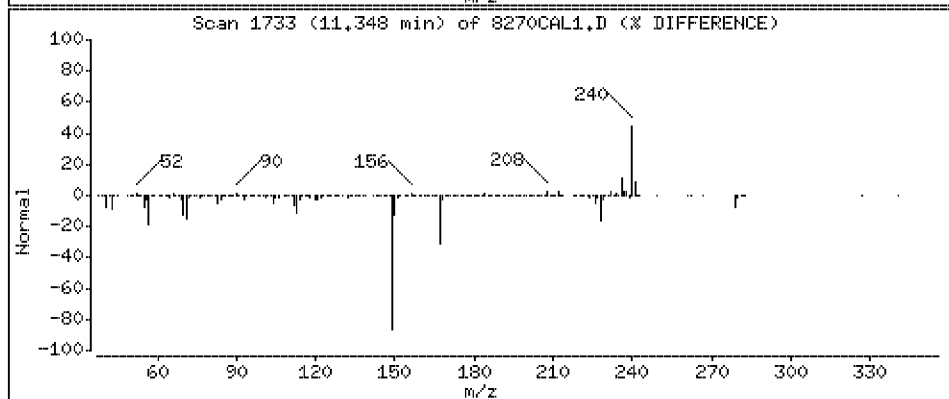
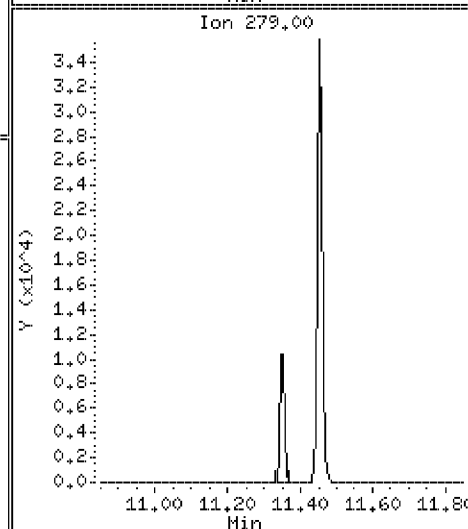
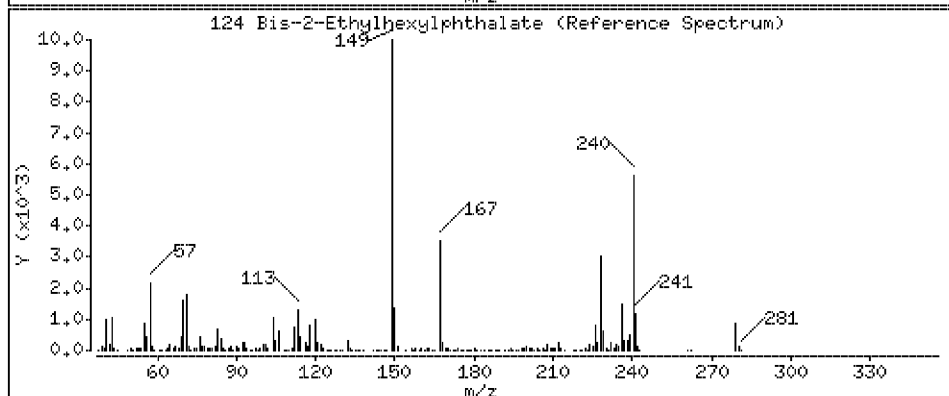
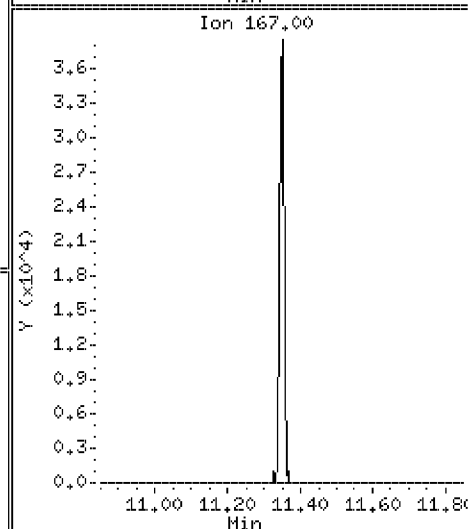
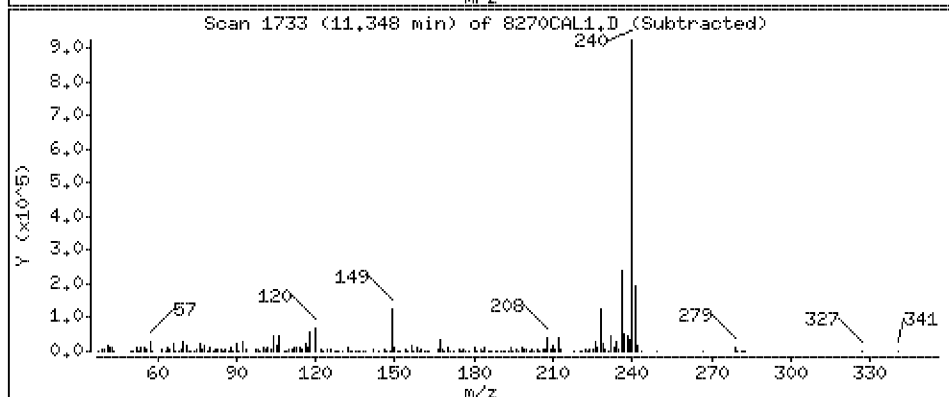
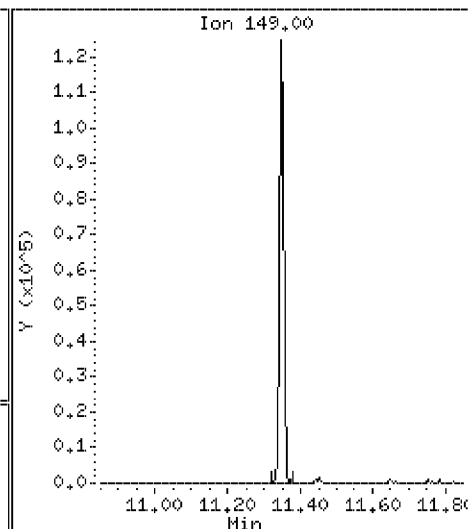
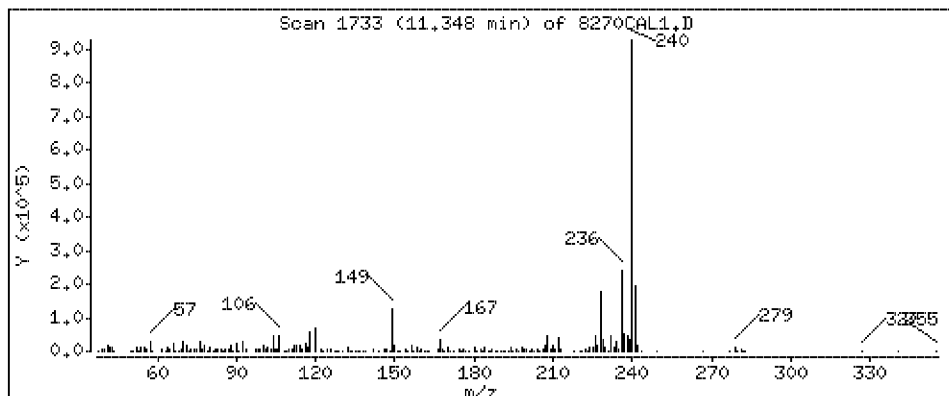
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

124 Bis-2-Ethylhexylphthalate

Concentration: 3.8 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

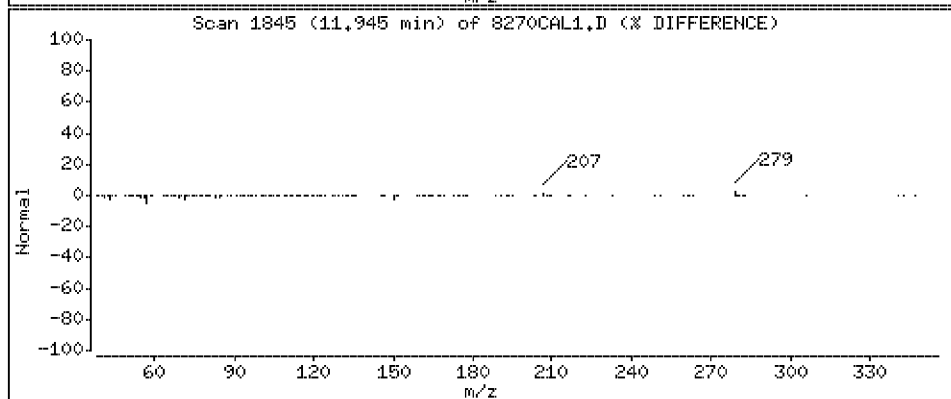
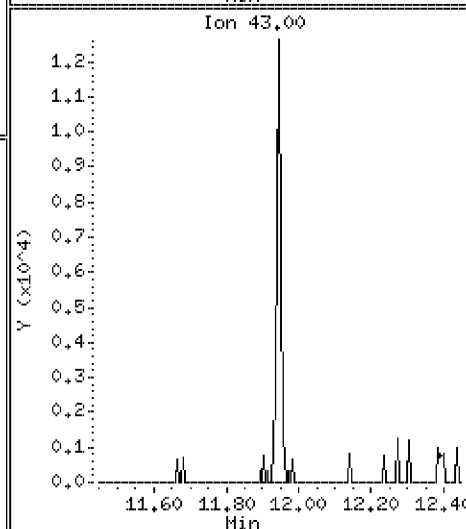
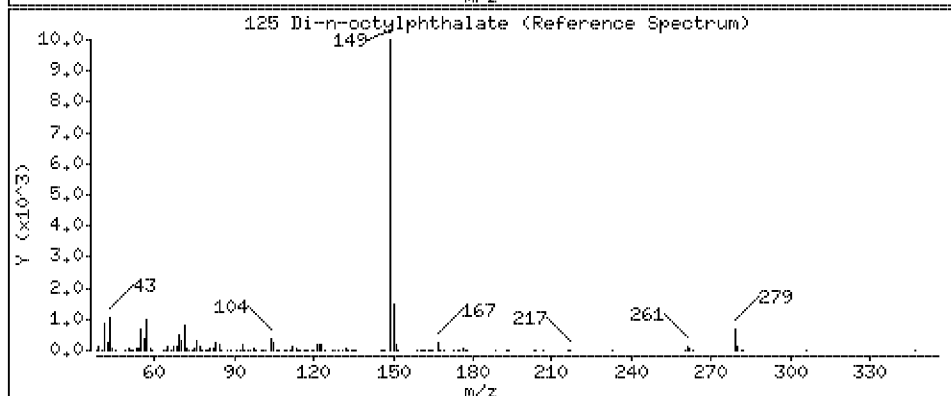
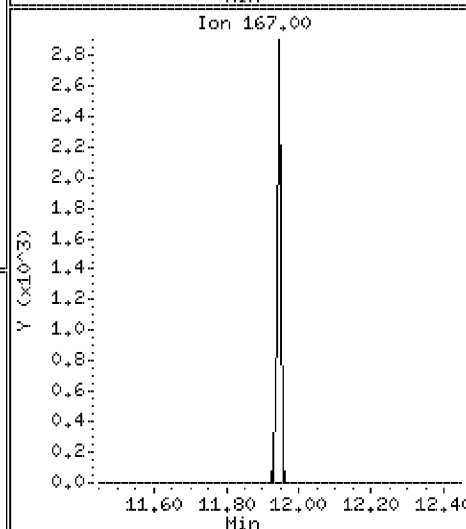
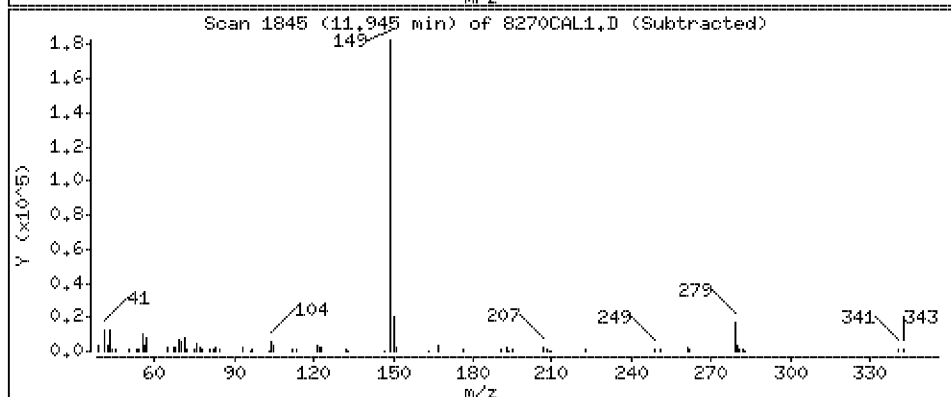
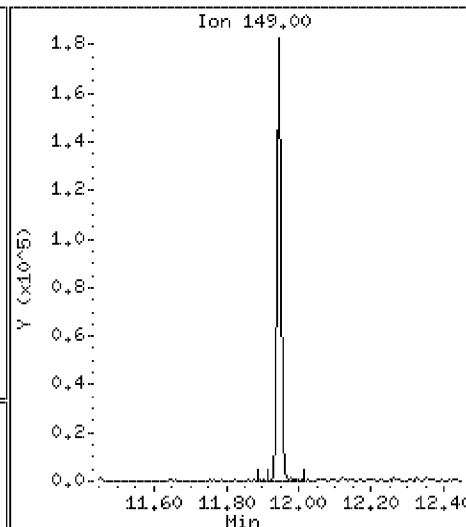
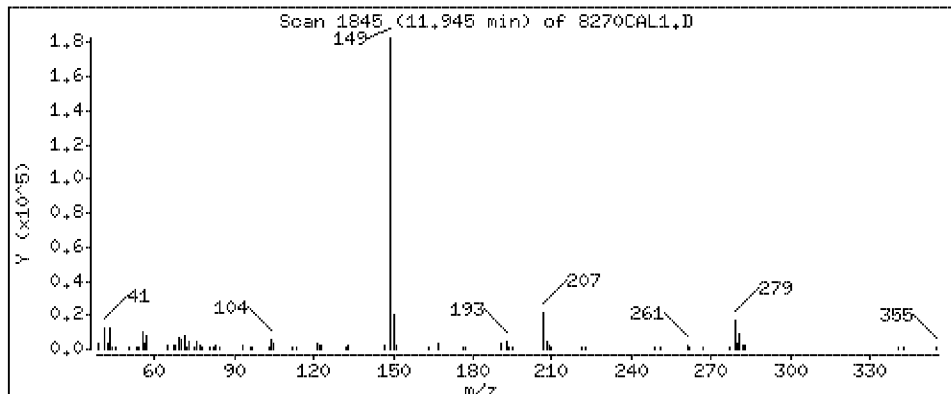
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

125 Di-n-octylphthalate

Concentration: 3.5 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

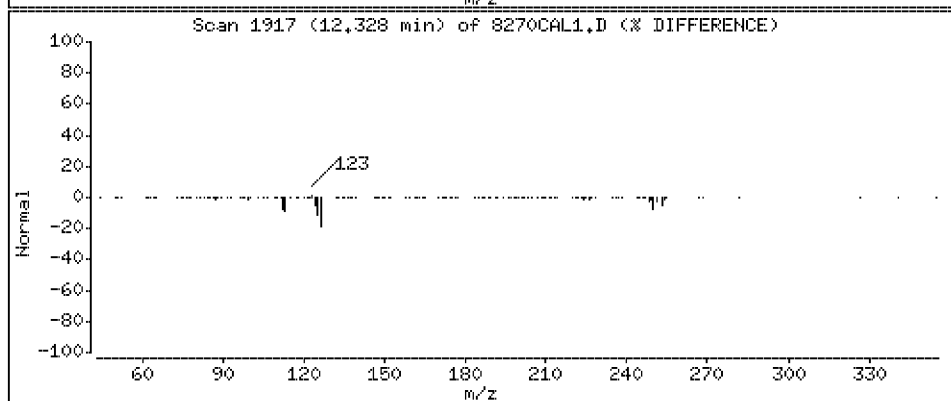
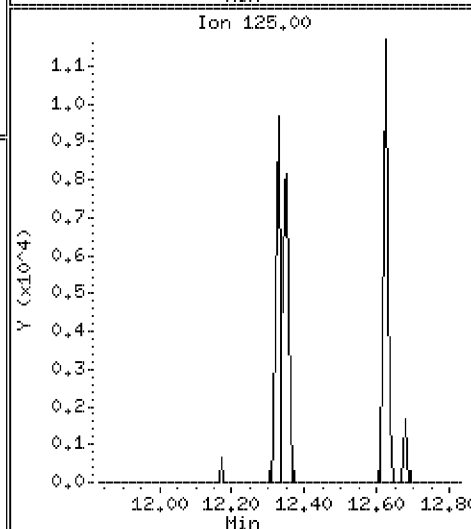
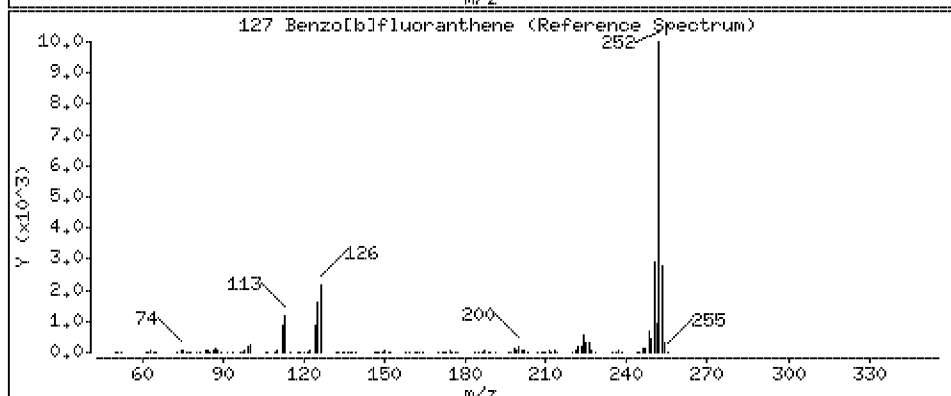
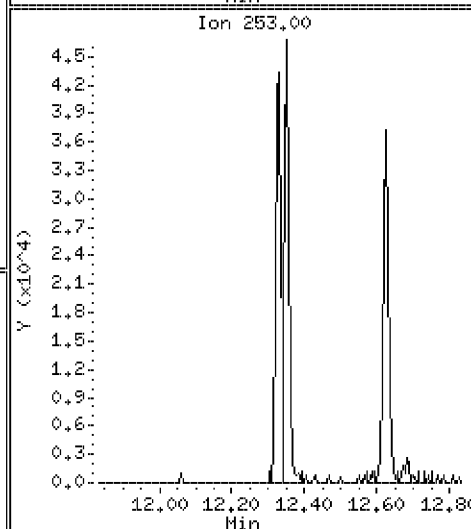
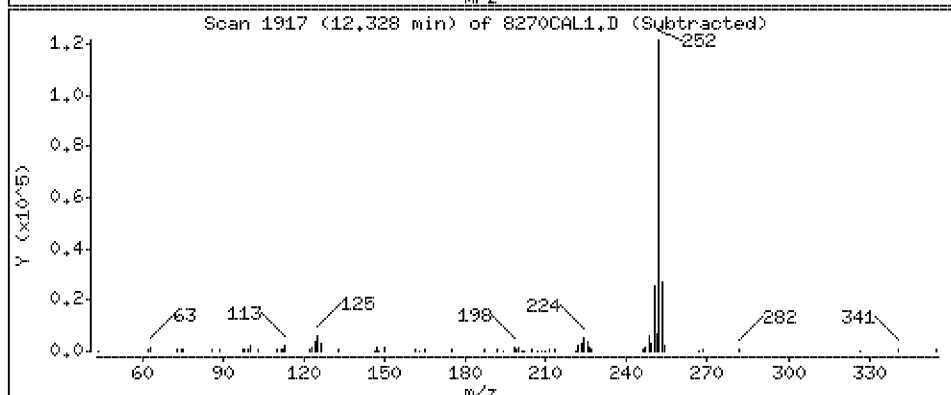
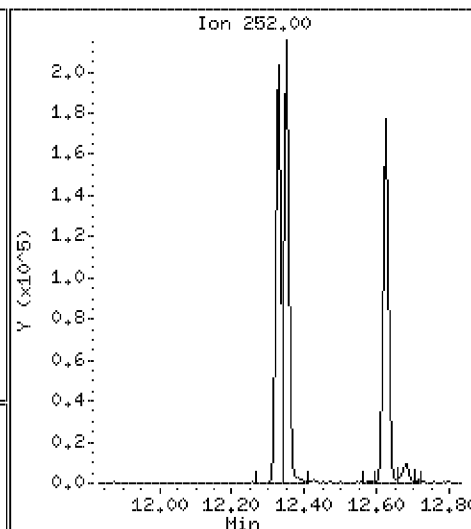
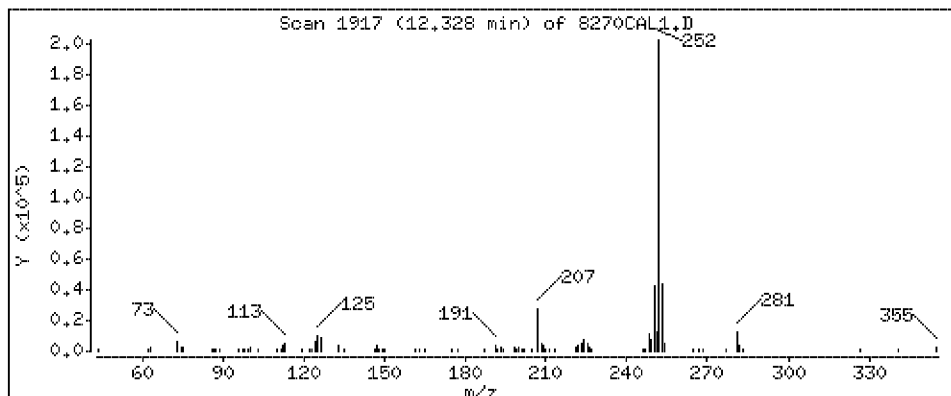
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

127 Benzo[b]fluoranthene

Concentration: 3.8 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

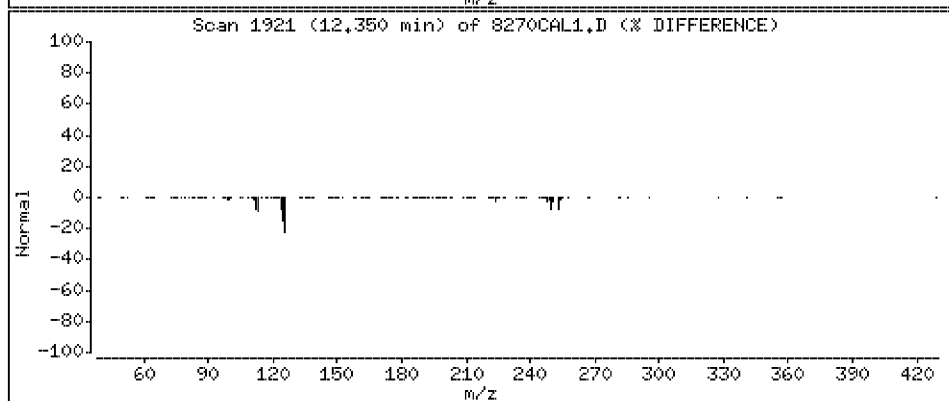
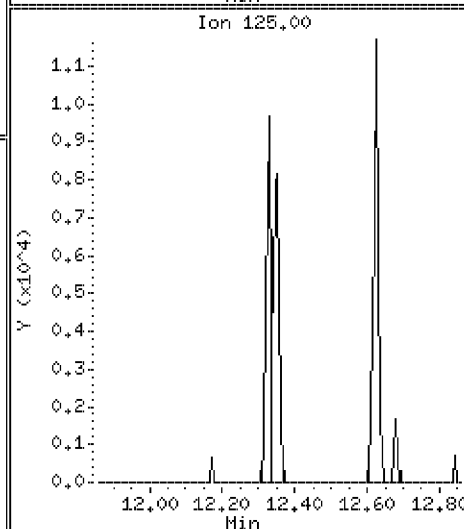
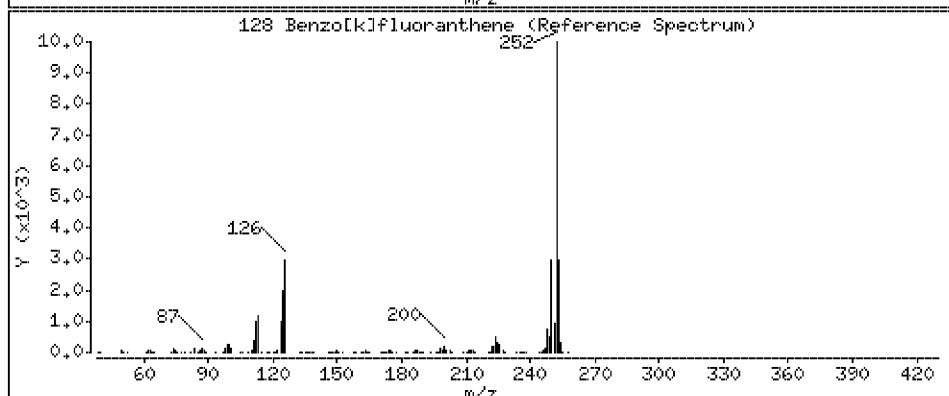
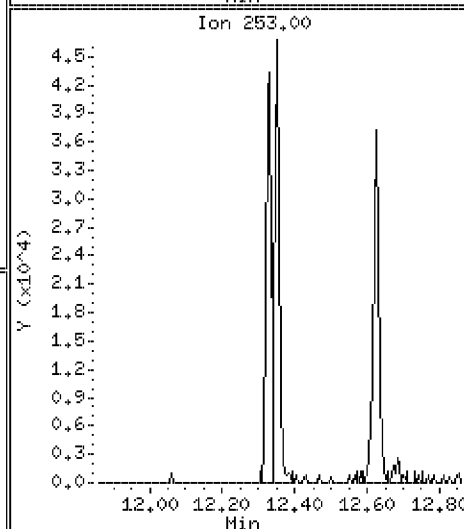
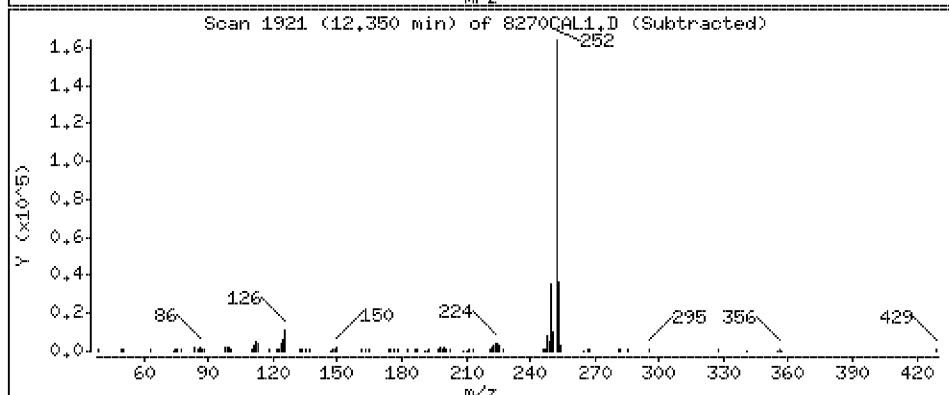
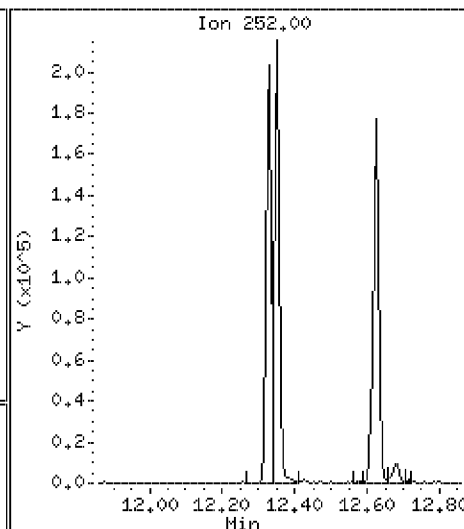
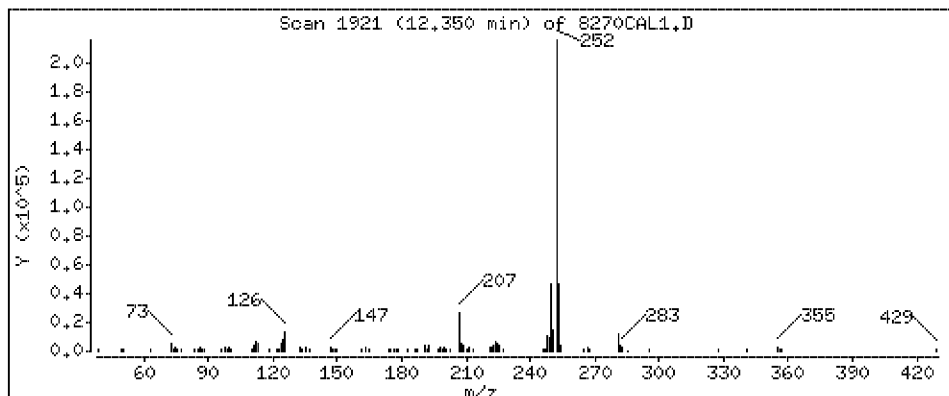
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

128 Benzo[k]fluoranthene

Concentration: 4.2 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

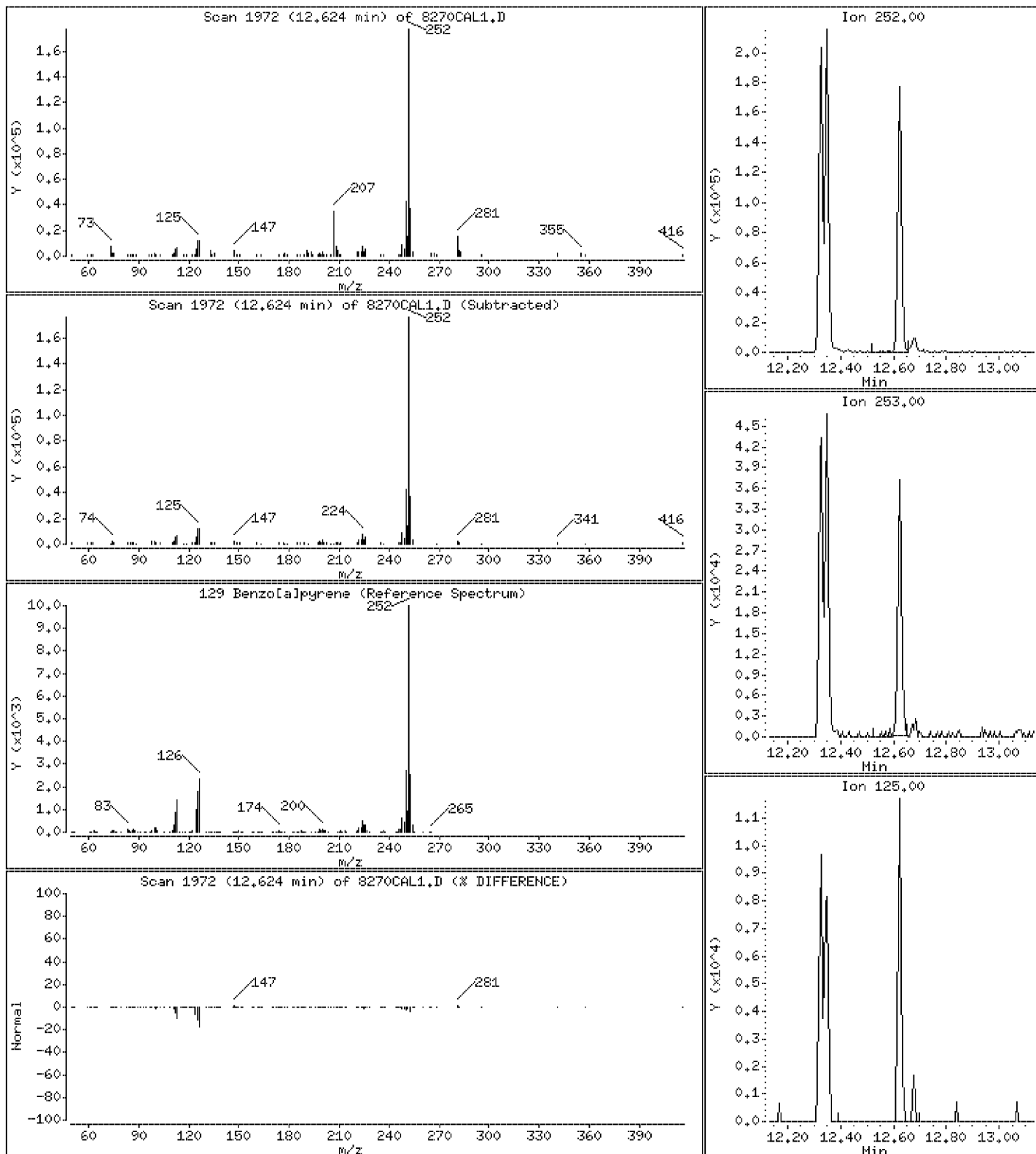
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

129 Benzo[al]pyrene

Concentration: 3.8 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

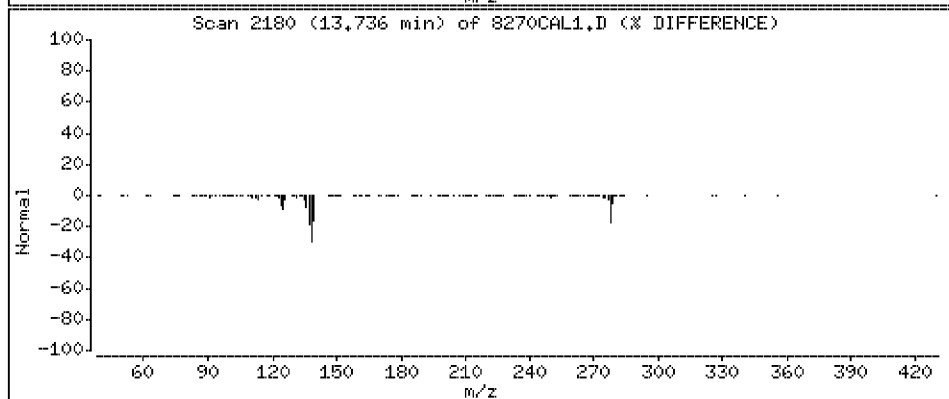
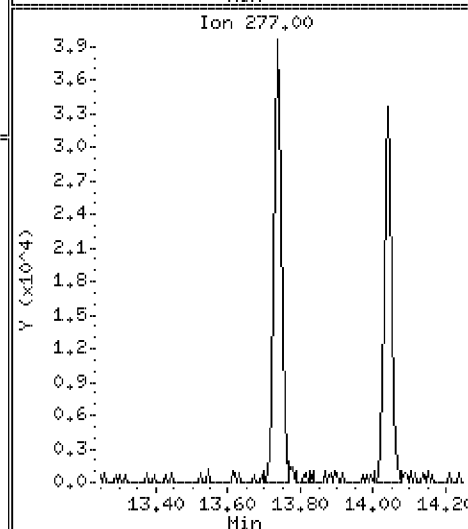
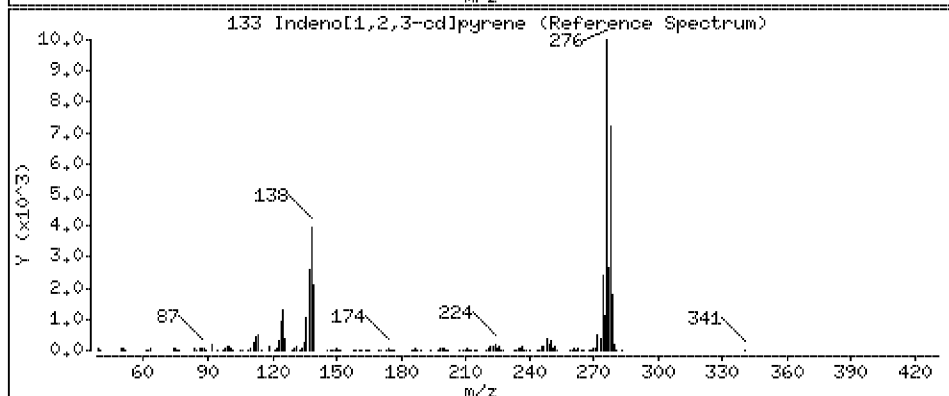
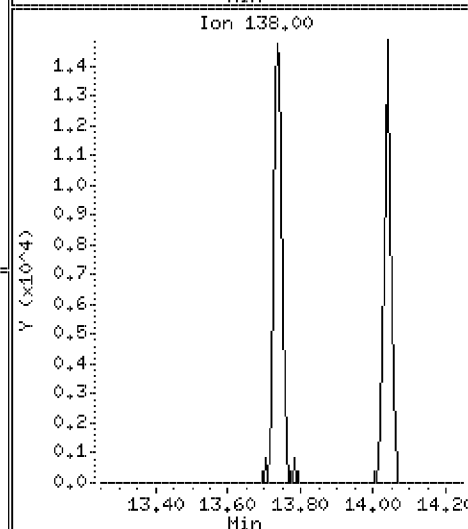
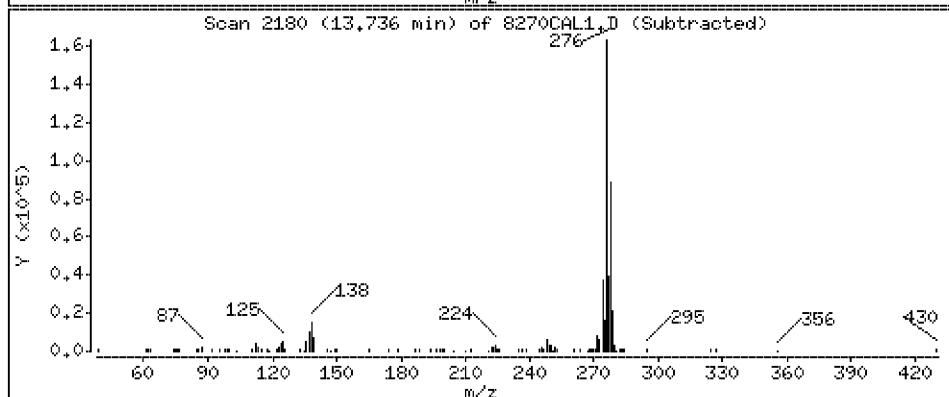
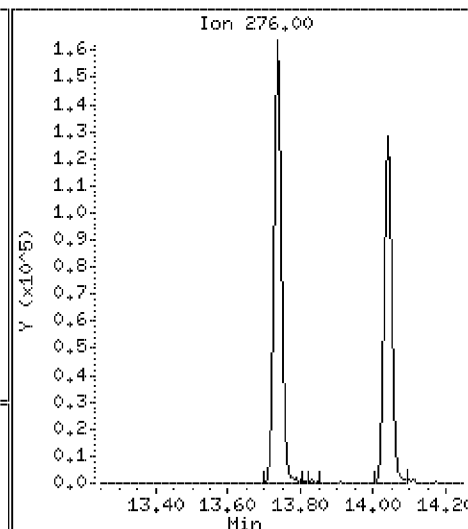
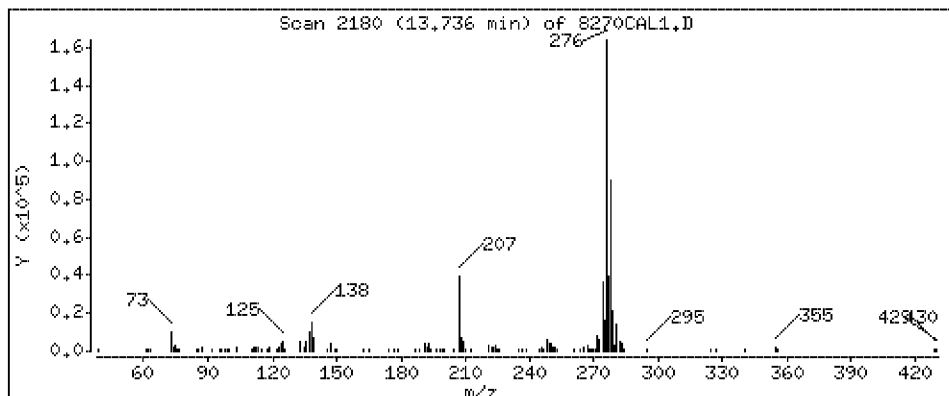
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

133 Indeno[1,2,3-cd]pyrene

Concentration: 3.9 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

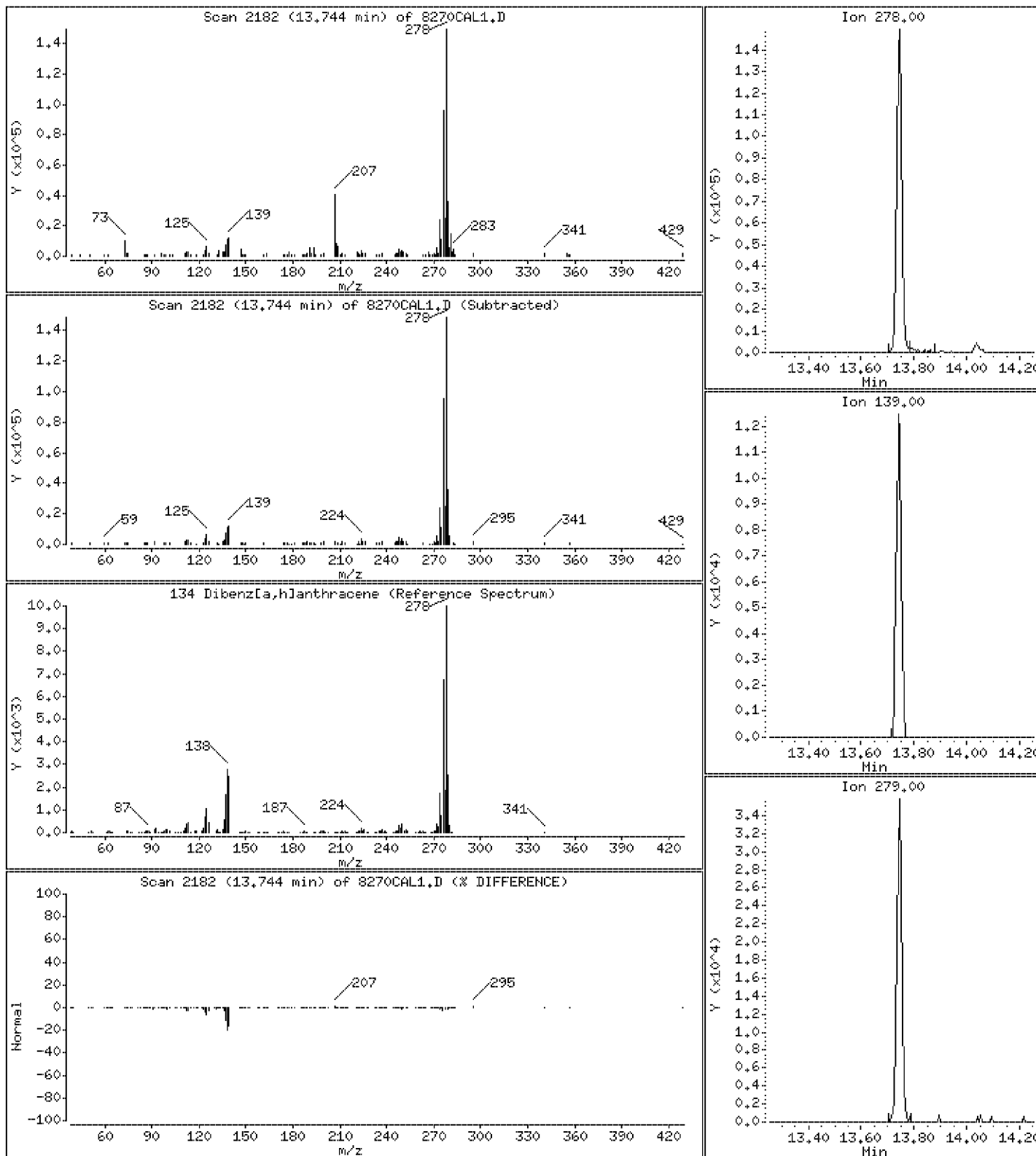
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

134 Dibenz[a,h]anthracene

Concentration: 3.8 ug/l



Date : 23-APR-2012 12:45

Client ID: 8270CAL1

Instrument: smsd03.i

Sample Info: 45927

Purge Volume: 1000.0

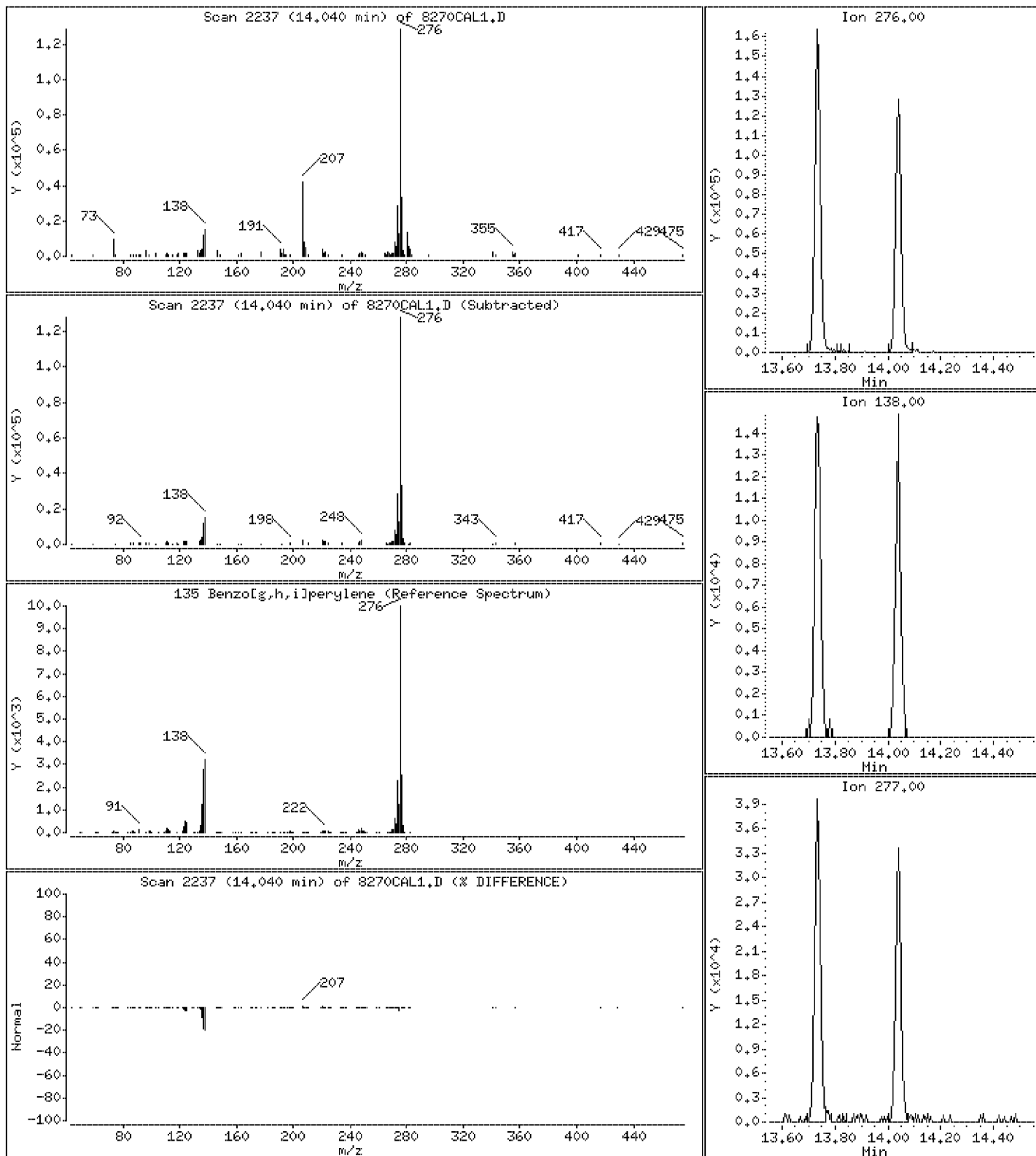
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

135 Benzo[g,h,i]perylene

Concentration: 4.1 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270SEC2.D
 Lab Smp Id: 45872 Client Smp ID: 8270SEC
 Inj Date : 23-APR-2012 13:33 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 45872
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270bcs.m
 Meth Date : 25-Apr-2012 09:57 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 12:21 Cal File: 8270CAL2.D
 Als bottle: 9 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: 8270caln.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
2 Pyridine CAS #: 110-86-1									
2.382	2.381	(0.536)	79	547543	45.0000	43.7	80.00- 120.00	100.00	
2.381	2.381	(0.535)	52	210263			7.01- 67.01	38.40	
M 16 Cresols (Total) CAS #: 1319-77-3									
				971682	90.0000			(a)	
1 N-Nitrosodimethylamine CAS #: 62-75-9									
2.339	2.338	(0.526)	42	260439	45.0000	46.0	80.00- 120.00	100.00	
2.339	2.338	(0.526)	74	365327			112.35- 172.35	140.27	
2.339	2.338	(0.526)	44	11448			0.00- 34.21	4.40	
\$ 6 2-Fluorophenol (SURR) CAS #: 367-12-4									
3.383	3.383	(0.761)	112	904376	90.0000	93.8	80.00- 120.00	100.00	
3.382	3.383	(0.760)	64	562067			33.15- 93.15	62.15	
\$ 11 Phenol-d5 (SURR) CAS #: 4165-62-2									
4.139	4.139	(0.931)	99	1110922	90.0000	86.0	80.00- 120.00	100.00	
4.138	4.139	(0.930)	42	225448			0.00- 48.89	20.29	
4.138	4.139	(0.930)	71	618789			23.76- 83.76	55.70	
13 Phenol CAS #: 108-95-2									
4.150	4.151	(0.933)	94	663294	45.0000	45.2	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
13 Phenol (continued)									
4.151	4.151	(0.933)	65	395243			31.39- 91.39	59.59	
4.150	4.151	(0.933)	66	728418			81.48- 141.48	109.82	

10 Aniline CAS #: 62-53-3									
4.167	4.166	(0.937)	93	672444	45.0000	43.2	80.00- 120.00	100.00	
4.151	4.166	(0.933)	65	395267			26.91- 86.91	58.78	
4.150	4.166	(0.933)	66	728457			73.34- 133.34	108.33	

14 Bis(2-Chloroethyl)ether CAS #: 111-44-4									
4.210	4.210	(0.947)	93	446766	45.0000	48.4	80.00- 120.00	100.00	
4.210	4.210	(0.947)	63	334552			42.30- 102.30	74.88	
4.210	4.210	(0.947)	95	142172			1.53- 61.53	31.82	

15 2-Chlorophenol CAS #: 95-57-8									
4.278	4.278	(0.962)	128	431805	45.0000	44.8	80.00- 120.00	100.00	
4.277	4.278	(0.962)	64	236092			20.72- 80.72	54.68	
4.278	4.278	(0.962)	130	140808			2.39- 62.39	32.61	

17 1,3-Dichlorobenzene CAS #: 541-73-1									
4.401	4.401	(0.989)	146	534511	45.0000	45.2	80.00- 120.00	100.00	
4.401	4.401	(0.989)	148	350958			36.16- 96.16	65.66	
4.400	4.401	(0.989)	111	237697			16.14- 76.14	44.47	

* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.448	4.448	(1.000)	152	333687	40.0000		80.00- 120.00	100.00	
4.448	4.448	(1.000)	115	207784			32.20- 92.20	62.27	
4.448	4.448	(1.000)	150	556392			139.77- 199.77	166.74	

19 1,4-Dichlorobenzene CAS #: 106-46-7									
4.463	4.462	(1.003)	146	566344	45.0000	45.4	80.00- 120.00	100.00	
4.463	4.462	(1.003)	148	376495			38.09- 98.09	66.48	
4.463	4.462	(1.003)	111	243417			14.50- 74.50	42.98	

21 Benzyl alcohol CAS #: 100-51-6									
4.566	4.567	(1.027)	108	277136	45.0000	41.9	80.00- 120.00	100.00	
4.566	4.567	(1.027)	79	506840			152.29- 212.29	182.88	
4.566	4.567	(1.027)	77	351435			97.26- 157.26	126.81	

20 1,2-Dichlorobenzene CAS #: 95-50-1									
4.599	4.599	(1.034)	146	511358	45.0000	45.0	80.00- 120.00	100.00	
4.599	4.599	(1.034)	148	339086			38.32- 98.32	66.31	
4.599	4.599	(1.034)	111	241040			18.14- 78.14	47.14	

22 2-Methylphenol CAS #: 95-48-7									
4.671	4.671	(1.050)	107	393527	45.0000	45.0	80.00- 120.00	100.00	
4.671	4.671	(1.050)	108	437175			82.43- 142.43	111.09	
4.671	4.671	(1.050)	79	348087			55.43- 115.43	88.45	

23 2,2'-oxybis(1-chloropropane) CAS #: 108-60-1									
4.675	4.675	(1.051)	45	300749	45.0000	46.6	80.00- 120.00	100.00	
4.671	4.675	(1.050)	77	398476			102.98- 162.98	132.49	
4.675	4.675	(1.051)	121	160054			24.22- 84.22	53.22	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
28 4-Methylphenol CAS #: 106-44-5									
4.807	4.808	(1.081)	107	578155	45.0000	45.8	80.00- 120.00	100.00	
4.807	4.808	(1.081)	108	470630			50.54- 110.54	81.40	
4.807	4.808	(1.081)	79	188301			2.76- 62.76	32.57	

26 N-Nitrosodipropylamine CAS #: 621-64-7									
4.799	4.798	(1.079)	70	466824	45.0000	47.5	80.00- 120.00	100.00	
4.798	4.798	(1.079)	42	181335			6.87- 66.87	38.84	
4.799	4.798	(1.079)	130	90083			0.00- 49.23	19.30	

30 Hexachloroethane CAS #: 67-72-1									
4.901	4.902	(1.102)	117	221121	45.0000	44.9	80.00- 120.00	100.00	
4.902	4.902	(1.102)	201	258763			90.07- 150.07	117.02	
4.902	4.902	(1.102)	199	166024			43.69- 103.69	75.08	

\$ 31 Nitrobenzene-d5 (SURR) CAS #: 4165-60-0									
4.944	4.944	(0.881)	82	630108	45.0000	42.6	80.00- 120.00	100.00	
4.944	4.944	(0.881)	128	204159			2.76- 62.76	32.40	
4.943	4.944	(0.881)	54	240293			7.08- 67.08	38.14	

32 Nitrobenzene CAS #: 98-95-3									
4.961	4.962	(0.884)	77	649848	45.0000	44.6	80.00- 120.00	100.00	
4.961	4.962	(0.884)	123	221578			4.18- 64.18	34.10	
4.961	4.962	(0.884)	65	100008			0.00- 45.17	15.39	

34 Isophorone CAS #: 78-59-1									
5.173	5.176	(0.922)	82	1000287	45.0000	56.2	80.00- 120.00	100.00 (M)	
5.176	5.176	(0.923)	138	163687			0.00- 46.29	16.36	
5.176	5.176	(0.923)	95	97727			0.00- 39.21	9.77	

35 2-Nitrophenol CAS #: 88-75-5									
5.253	5.253	(0.936)	139	241700	45.0000	44.8	80.00- 120.00	100.00	
5.253	5.253	(0.936)	65	173409			43.34- 103.34	71.75	
5.253	5.253	(0.936)	109	125447			20.91- 80.91	51.90	

36 2,4-Dimethylphenol CAS #: 105-67-9									
5.293	5.294	(0.944)	122	403103	45.0000	48.5	80.00- 120.00	100.00	
5.293	5.294	(0.944)	107	552742			111.45- 171.45	137.12	
5.294	5.294	(0.944)	121	232642			28.89- 88.89	57.71	

38 Bis(2-Chloroethoxy)methane CAS #: 111-91-1									
5.369	5.369	(0.957)	93	577891	45.0000	48.0	80.00- 120.00	100.00	
5.370	5.369	(0.957)	95	190779			3.06- 63.06	33.01	
5.370	5.369	(0.957)	123	71128			0.00- 44.40	12.31	

40 Benzoic Acid CAS #: 65-85-0									
5.403	5.404	(0.963)	122	237724	45.0000	41.8	80.00- 120.00	100.00	
5.403	5.404	(0.963)	105	312167			107.67- 167.67	131.31	
5.402	5.404	(0.963)	77	320383			104.37- 164.37	134.77	

41 2,4-Dichlorophenol CAS #: 120-83-2									
5.489	5.490	(0.978)	162	433350	45.0000	44.2	80.00- 120.00	100.00	
5.489	5.490	(0.978)	164	286912			36.50- 96.50	66.21	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
41 2,4-Dichlorophenol (continued)									
5.489	5.490	(0.978)	98	151228			5.73- 65.73	34.90	

42 1,2,4-Trichlorobenzene CAS #: 120-82-1									
5.554	5.555	(0.990)	180	544056	45.0000	44.4	80.00- 120.00	100.00	
5.554	5.555	(0.990)	182	543100			67.47- 127.47	99.82	
5.554	5.555	(0.990)	145	151267			0.00- 58.13	27.80	

* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.610	5.610	(1.000)	136	1096003	40.0000		80.00- 120.00	100.00	
5.609	5.610	(1.000)	68	59295			0.00- 35.51	5.41	

44 Naphthalene CAS #: 91-20-3									
5.630	5.630	(1.004)	128	1339801	45.0000	47.6	80.00- 120.00	100.00	
5.630	5.630	(1.004)	129	148430			0.00- 41.28	11.08	
5.630	5.630	(1.004)	127	183011			0.00- 43.27	13.66	

45 4-Chloroaniline CAS #: 106-47-8									
5.681	5.681	(1.013)	127	561891	45.0000	47.5	80.00- 120.00	100.00	
5.681	5.681	(1.013)	129	180928			2.39- 62.39	32.20	
5.680	5.681	(1.013)	65	228808			11.54- 71.54	40.72	

48 Hexachlorobutadiene CAS #: 87-68-3									
5.745	5.746	(1.024)	225	461431	45.0000	49.3	80.00- 120.00	100.00	
5.745	5.746	(1.024)	223	287091			32.02- 92.02	62.22	
5.746	5.746	(1.024)	227	304378			34.54- 94.54	65.96	

51 4-Chloro-3-methylphenol CAS #: 59-50-7									
6.158	6.158	(1.098)	107	423230	45.0000	44.8	80.00- 120.00	100.00	
6.158	6.158	(1.098)	144	108960			0.00- 55.95	25.74	
6.158	6.158	(1.098)	142	325302			44.47- 104.47	76.86	

53 2-Methylnaphthalene CAS #: 91-57-6									
6.289	6.289	(1.121)	142	931339	45.0000	45.5	80.00- 120.00	100.00	
6.289	6.289	(1.121)	141	828208			58.08- 118.08	88.93	

54 1-Methylnaphthalene CAS #: 90-12-0									
6.385	6.385	(1.138)	142	811986	45.0000	43.7	80.00- 120.00	100.00	
6.385	6.385	(1.138)	141	721690			61.72- 121.72	88.88	

55 Hexachlorocyclopentadiene CAS #: 77-47-4									
6.445	6.445	(0.882)	237	543741	45.0000	47.4	80.00- 120.00	100.00	
6.444	6.445	(0.882)	235	337423			33.37- 93.37	62.06	
6.445	6.445	(0.882)	272	77041			0.00- 43.74	14.17	

57 2,4,6-Trichlorophenol CAS #: 88-06-2									
6.619	6.620	(0.906)	196	420152	45.0000	46.5	80.00- 120.00	100.00	
6.619	6.620	(0.906)	198	407924			67.07- 127.07	97.09	
6.619	6.620	(0.906)	200	129511			1.30- 61.30	30.82	

58 2,4,5-Trichlorophenol CAS #: 95-95-4									
6.569	6.570	(0.899)	196	391717	45.0000	46.9	80.00- 120.00	100.00	
6.569	6.570	(0.899)	198	378222			69.46- 129.46	96.55	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
58 2,4,5-Trichlorophenol (continued)									
6.568	6.570	(0.899)	97	251369			34.72- 94.72	64.17	

\$ 59 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.643	6.644	(0.909)	172	1243495	45.0000	44.2	80.00- 120.00	100.00	
6.643	6.644	(0.909)	171	451095			5.03- 65.03	36.28	

62 2-Chloronaphthalene CAS #: 91-58-7									
6.762	6.763	(0.926)	162	988608	45.0000	46.4	80.00- 120.00	100.00	
6.762	6.763	(0.926)	164	335943			4.20- 64.20	33.98	
6.762	6.763	(0.926)	127	373061			7.85- 67.85	37.74	

63 2-Nitroaniline CAS #: 88-74-4									
6.868	6.869	(0.940)	65	357040	45.0000	48.7	80.00- 120.00	100.00	
6.868	6.869	(0.940)	92	221316			30.25- 90.25	61.99	
6.869	6.869	(0.940)	138	301334			52.43- 112.43	84.40	

65 Dimethylphthalate CAS #: 131-11-3									
7.039	7.040	(0.964)	163	1174594	45.0000	48.0	80.00- 120.00	100.00	
7.039	7.040	(0.964)	194	68492			0.00- 35.55	5.83	
7.039	7.040	(0.964)	164	126027			0.00- 40.55	10.73	

68 Acenaphthylene CAS #: 208-96-8									
7.167	7.167	(0.981)	152	1515719	45.0000	48.1	80.00- 120.00	100.00	
7.167	7.167	(0.981)	151	311178			0.00- 50.50	20.53	
7.167	7.167	(0.981)	153	211288			0.00- 43.76	13.94	

67 2,6-Dinitrotoluene CAS #: 606-20-2									
7.100	7.100	(0.972)	165	260195	45.0000	47.0	80.00- 120.00	100.00	
7.100	7.100	(0.972)	89	201555			49.02- 109.02	77.46	
7.099	7.100	(0.972)	63	194940			44.86- 104.86	74.92	

69 3-Nitroaniline CAS #: 99-09-2									
7.272	7.271	(0.995)	138	242797	45.0000	49.4	80.00- 120.00	100.00	
7.271	7.271	(0.995)	108	26931			0.00- 41.32	11.09	
7.271	7.271	(0.995)	92	326863			100.05- 160.05	134.62	

* 70 Acenaphthene-d10 CAS #: 15067-26-2									
7.305	7.305	(1.000)	164	726518	40.0000		80.00- 120.00	100.00	
7.305	7.305	(1.000)	162	698556			64.73- 124.73	96.15	
7.305	7.305	(1.000)	160	321070			12.46- 72.46	44.19	

71 Acenaphthene CAS #: 83-32-9									
7.337	7.338	(1.004)	154	887424	45.0000	46.4	80.00- 120.00	100.00	
7.337	7.338	(1.004)	153	977052			78.46- 138.46	110.10	
7.337	7.338	(1.004)	152	481146			23.44- 83.44	54.22	

72 2,4-Dinitrophenol CAS #: 51-28-5									
7.369	7.369	(1.009)	184	182402	45.0000	49.6	80.00- 120.00	100.00	
7.368	7.369	(1.009)	63	143471			48.07- 108.07	78.66	
7.369	7.369	(1.009)	154	125352			39.61- 99.61	68.72	

74 4-Nitrophenol CAS #: 100-02-7									
7.474	7.476	(1.023)	109	255513	45.0000	47.8	80.00- 120.00	100.00(Q)	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	====	=====	=====	=====	=====	=====	
74 4-Nitrophenol (continued)									
7.475	7.476	(1.023)	139	154082			26.63-	86.63	60.30
7.474	7.476	(1.023)	65	280115			81.59-	141.59	109.63

75 Dibenzofuran CAS #: 132-64-9									
7.505	7.506	(1.027)	168	1466724	45.0000	47.2	80.00-	120.00	100.00
7.505	7.506	(1.027)	139	623595			12.75-	72.75	42.52

76 2,4-Dinitrotoluene CAS #: 121-14-2									
7.494	7.494	(1.026)	165	361660	45.0000	46.6	80.00-	120.00	100.00
7.495	7.494	(1.026)	63	411554			82.10-	142.10	113.80
7.494	7.494	(1.026)	89	370783			72.08-	132.08	102.52

80 Diethylphthalate CAS #: 84-66-2									
7.729	7.729	(1.058)	149	1064815	45.0000	47.1	80.00-	120.00	100.00
7.729	7.729	(1.058)	177	248633			0.00-	53.36	23.35
7.728	7.729	(1.058)	150	136976			0.00-	42.43	12.86

81 Fluorene CAS #: 86-73-7									
7.840	7.841	(1.073)	166	1303274	45.0000	48.4	80.00-	120.00	100.00
7.840	7.841	(1.073)	165	1242867			65.55-	125.55	95.36
7.840	7.841	(1.073)	167	192064			0.00-	44.15	14.74

82 4-Chlorophenyl-phenylether CAS #: 7005-72-3									
7.838	7.838	(1.073)	204	766618	45.0000	47.5	80.00-	120.00	100.00
7.838	7.838	(1.073)	206	259726			4.27-	64.27	33.88
7.837	7.838	(1.073)	141	409057			24.97-	84.97	53.36

84 4-Nitroaniline CAS #: 100-01-6									
7.875	7.874	(1.078)	138	210285	45.0000	49.4	80.00-	120.00	100.00
7.874	7.874	(1.078)	92	138118			38.02-	98.02	65.68
7.874	7.874	(1.078)	108	331694			124.92-	184.92	157.74

85 4,6-Dinitro-2-methylphenol CAS #: 534-52-1									
7.896	7.896	(0.901)	198	245251	45.0000	43.7	80.00-	120.00	100.00
7.894	7.896	(0.901)	51	92435			6.77-	66.77	37.69
7.895	7.896	(0.901)	105	89227			8.50-	68.50	36.38

86 N-Nitrosodiphenylamine CAS #: 86-30-6									
7.957	7.956	(0.908)	169	813988	45.0000	50.0	80.00-	120.00	100.00
7.957	7.956	(0.908)	168	548760			36.61-	96.61	67.42
7.957	7.956	(0.908)	167	298013			4.62-	64.62	36.61

87 1,2-Diphenylhydrazine CAS #: 122-66-7									
7.993	7.992	(1.094)	77	1360824	45.0000	52.4	80.00-	120.00	100.00
7.994	7.992	(1.094)	105	173848			0.00-	43.34	12.78
7.994	7.992	(1.094)	182	353102			0.00-	56.11	25.95

88 2,4,6-Tribromophenol (SURR) CAS #: 118-79-6									
8.082	8.083	(1.106)	330	471237	90.0000	92.8	80.00-	120.00	100.00
8.082	8.083	(1.106)	332	458831			66.43-	126.43	97.37
8.080	8.083	(1.106)	141	189414			9.24-	69.24	40.20

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
====	=====	=====	=====	=====	=====	=====	=====	=====
93 4-Bromophenylphenylether					CAS #: 101-55-3			
8.316	8.318	(0.949)	248	450859	45.0000	47.8	80.00- 120.00	100.00
8.316	8.318	(0.949)	250	441941			67.36- 127.36	98.02
8.315	8.318	(0.949)	141	300339			35.77- 95.77	66.61

94 Hexachlorobenzene					CAS #: 118-74-1			
8.385	8.387	(0.957)	284	504954	45.0000	46.5	80.00- 120.00	100.00
8.383	8.387	(0.957)	142	163337			2.39- 62.39	32.35
8.385	8.387	(0.957)	249	157698			0.06- 60.06	31.23

96 Pentachlorophenol					CAS #: 87-86-5			
8.583	8.585	(0.980)	266	292620	45.0000	45.9	80.00- 120.00	100.00
8.583	8.585	(0.980)	264	184484			33.70- 93.70	63.05
8.583	8.585	(0.980)	268	185403			35.26- 95.26	63.36

* 100 Phenanthrene-d10					CAS #: 1517-22-2			
8.760	8.761	(1.000)	188	1292183	40.0000		80.00- 120.00	100.00
8.759	8.761	(1.000)	94	83492			0.00- 36.35	6.46
8.759	8.761	(1.000)	80	101530			0.00- 37.82	7.86

101 Phenanthrene					CAS #: 85-01-8			
8.784	8.785	(1.003)	178	1599873	45.0000	48.1	80.00- 120.00	100.00
8.784	8.785	(1.003)	179	262472			0.00- 46.33	16.41
8.784	8.785	(1.003)	176	320139			0.00- 50.11	20.01

103 Anthracene					CAS #: 120-12-7			
8.833	8.835	(1.008)	178	1605293	45.0000	48.4	80.00- 120.00	100.00
8.834	8.835	(1.008)	179	261073			0.00- 45.97	16.26
8.833	8.835	(1.008)	176	321839			0.00- 49.80	20.05

104 Carbazole					CAS #: 86-74-8			
8.996	8.996	(1.027)	167	1414521	45.0000	51.2	80.00- 120.00	100.00
8.995	8.996	(1.027)	139	195313			0.00- 43.89	13.81
8.995	8.996	(1.027)	83	89947			0.00- 36.17	6.36

105 Di-n-butylphthalate					CAS #: 84-74-2			
9.326	9.327	(1.065)	149	1696980	45.0000	48.6	80.00- 120.00	100.00
9.325	9.327	(1.065)	150	165194			0.00- 40.04	9.73
9.325	9.327	(1.065)	104	129553			0.00- 37.79	7.63

109 Fluoranthene					CAS #: 206-44-0			
9.952	9.953	(1.136)	202	1878216	45.0000	49.2	80.00- 120.00	100.00
9.951	9.953	(1.136)	101	124357			0.00- 36.69	6.62
9.951	9.953	(1.136)	203	346578			0.00- 48.82	18.45

111 Pyrene					CAS #: 129-00-0			
10.176	10.176	(0.896)	202	1966656	45.0000	47.9	80.00- 120.00	100.00
10.176	10.176	(0.896)	200	438361			0.00- 51.88	22.29
10.175	10.176	(0.896)	203	382640			0.00- 49.33	19.46

\$ 112 Terphenyl-d14 (SURR)					CAS #: 1718-51-0			
10.321	10.322	(0.909)	244	1690215	45.0000	43.3	80.00- 120.00	100.00
10.320	10.322	(0.909)	122	115182			0.00- 36.72	6.81

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 112 Terphenyl-d14 (SURR) (continued)									
10.321	10.322	(0.909)	212	140487			0.00- 38.06	8.31	

118 Butylbenzylphthalate						CAS #: 85-68-7			
10.798	10.798	(0.951)	149	902547	45.0000	50.7	80.00- 120.00	100.00	
10.797	10.798	(0.951)	91	733744			51.57- 111.57	81.30	
10.798	10.798	(0.951)	206	234812			0.00- 55.14	26.02	

120 Benzo[a]anthracene						CAS #: 56-55-3			
11.348	11.348	(0.999)	228	2585604	45.0000	49.8	80.00- 120.00	100.00	
11.348	11.348	(0.999)	229	561068			0.00- 51.57	21.70	
11.348	11.348	(0.999)	226	758719			0.00- 58.54	29.34	

* 121 Chrysene-d12						CAS #: 1719-03-5			
11.358	11.359	(1.000)	240	2067093	40.0000		80.00- 120.00	100.00	
11.356	11.359	(1.000)	120	127060			0.00- 36.38	6.15	
11.358	11.359	(1.000)	236	558917			0.00- 57.06	27.04	

123 Chrysene						CAS #: 218-01-9			
11.385	11.384	(1.002)	228	2147464	45.0000	47.2	80.00- 120.00	100.00	
11.384	11.384	(1.002)	226	686549			1.12- 61.12	31.97	
11.384	11.384	(1.002)	229	468742			0.00- 51.74	21.83	

124 Bis-2-Ethylhexylphthalate						CAS #: 117-81-7			
11.350	11.350	(0.999)	149	1608677	45.0000	52.3	80.00- 120.00	100.00	
11.350	11.350	(0.999)	167	512491			2.07- 62.07	31.86	
11.351	11.350	(0.999)	279	150666			0.00- 39.24	9.37	

125 Di-n-octylphthalate						CAS #: 117-84-0			
11.948	11.948	(0.942)	149	2023966	45.0000	51.6	80.00- 120.00	100.00	
11.948	11.948	(0.942)	167	36292			0.00- 31.74	1.79	
11.947	11.948	(0.942)	43	168476			0.00- 38.21	8.32	

127 Benzo[b]fluoranthene						CAS #: 205-99-2			
12.336	12.333	(0.973)	252	2371959	45.0000	49.1	80.00- 120.00	100.00	
12.336	12.333	(0.973)	253	565734			0.00- 54.02	23.85	
12.335	12.333	(0.972)	125	115907			0.00- 34.93	4.89	

128 Benzo[k]fluoranthene						CAS #: 207-08-9			
12.360	12.359	(0.974)	252	2370163	45.0000	48.8	80.00- 120.00	100.00	
12.360	12.359	(0.974)	253	561867			0.00- 53.57	23.71	
12.359	12.359	(0.974)	125	123832			0.00- 35.26	5.22	

129 Benzo[a]pyrene						CAS #: 50-32-8			
12.632	12.630	(0.996)	252	2285218	45.0000	48.4	80.00- 120.00	100.00	
12.632	12.630	(0.996)	253	537136			0.00- 54.04	23.50	
12.631	12.630	(0.996)	125	120054			0.00- 35.52	5.25	

* 130 Perylene-d12						CAS #: 1520-96-3			
12.685	12.682	(1.000)	264	1819121	40.0000		80.00- 120.00	100.00	
12.684	12.682	(1.000)	260	438337			0.00- 54.80	24.10	
12.684	12.682	(1.000)	265	413334			0.00- 53.39	22.72	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	=====	=====	=====	=====	=====	=====	=====
133 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5				
13.752	13.749	(1.084)	276	2854501	45.0000	48.5	80.00- 120.00	100.00	
13.752	13.749	(1.084)	138	355211			0.00- 42.48	12.44	
13.753	13.749	(1.084)	277	773427			0.00- 56.82	27.09	

134 Dibenz[a,h]anthracene					CAS #: 53-70-3				
13.757	13.755	(1.085)	278	2540999	45.0000	49.4	80.00- 120.00	100.00	
13.756	13.755	(1.084)	139	198078			0.00- 37.70	7.80	
13.757	13.755	(1.085)	279	634419			0.00- 54.57	24.97	

135 Benzo[g,h,i]perylene					CAS #: 191-24-2				
14.057	14.053	(1.108)	276	2163622	45.0000	48.1	80.00- 120.00	100.00	
14.056	14.053	(1.108)	138	211735			0.00- 40.01	9.79	
14.057	14.053	(1.108)	277	542290			0.00- 54.80	25.06	

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

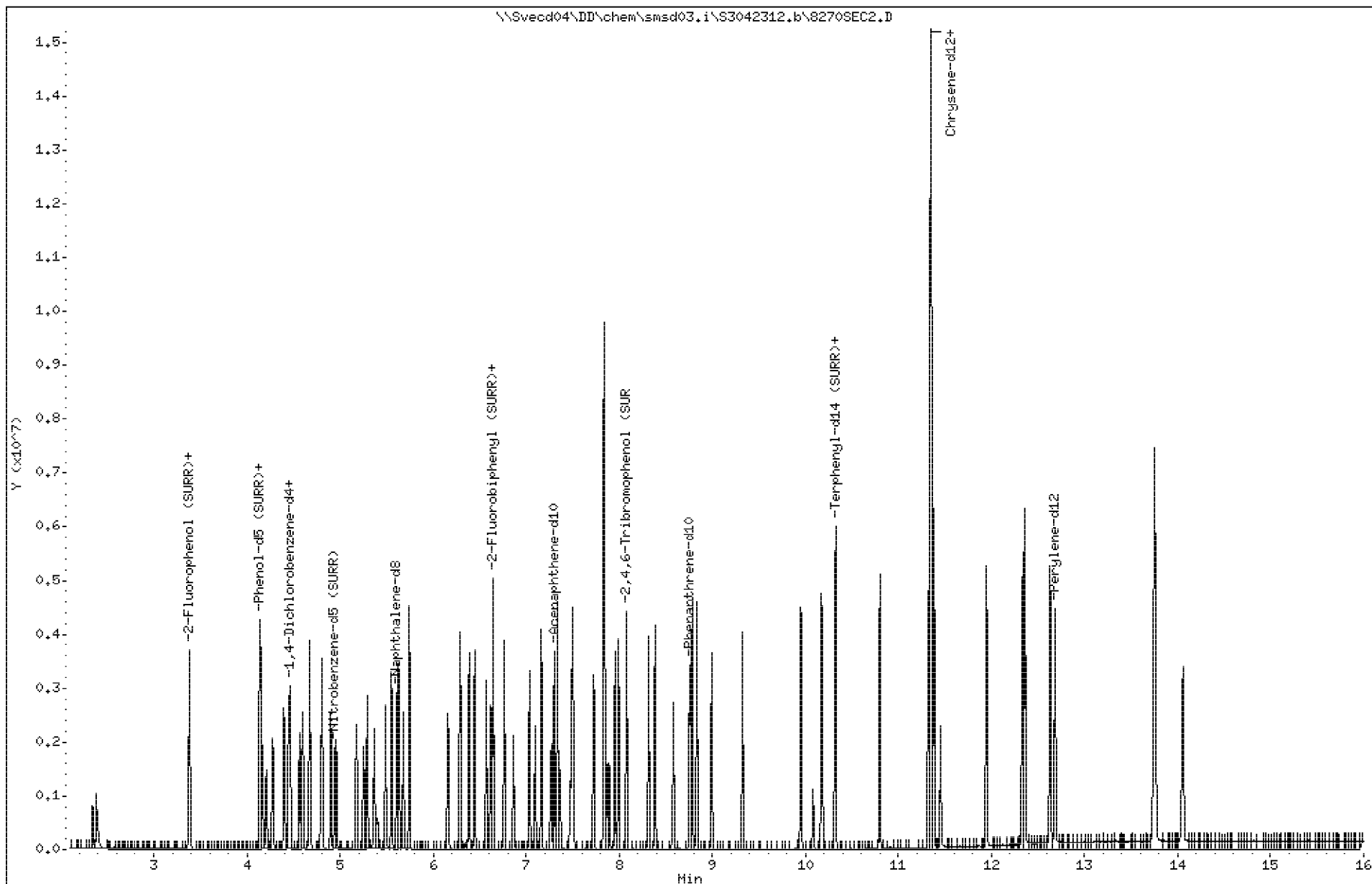
Sample Info: 45872

Operator: PEL

Purge Volume: 1000.0

Column diameter: 0.25

Column phase: HPMS-5



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

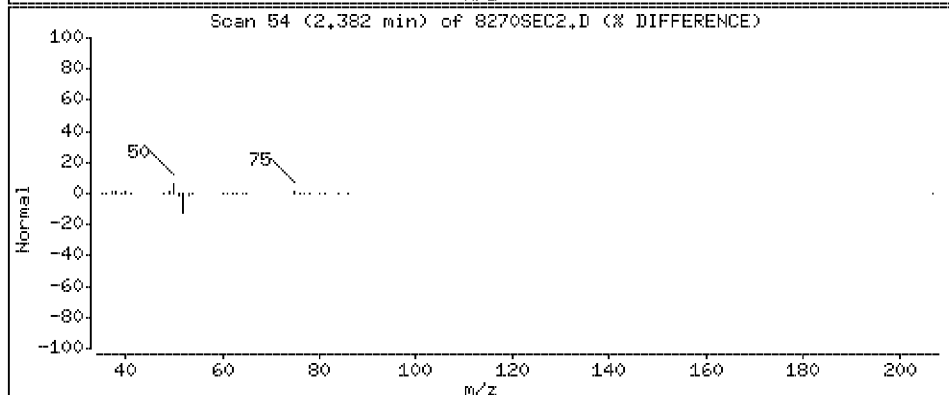
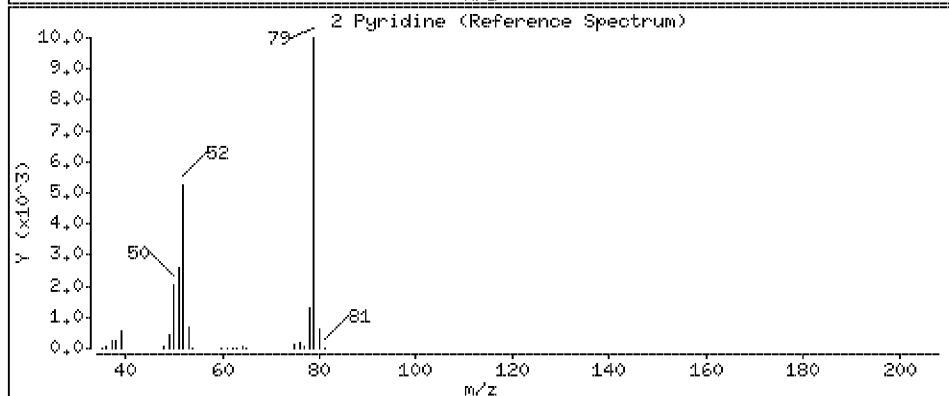
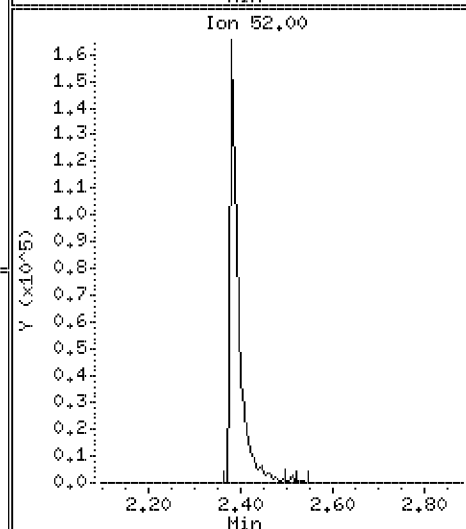
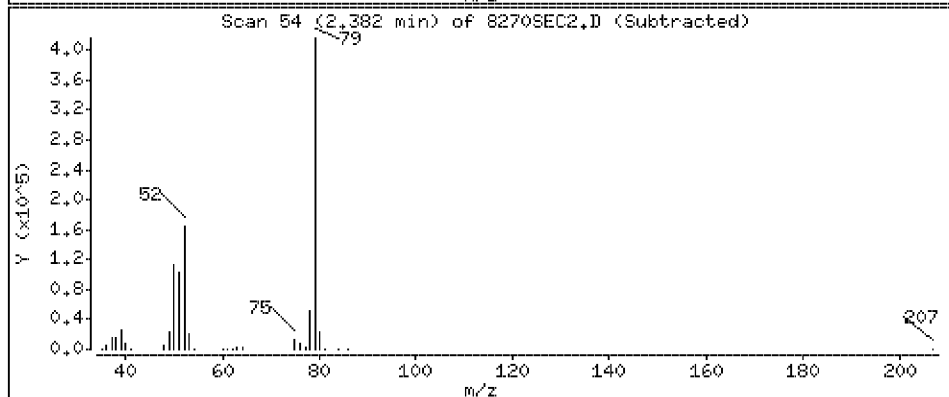
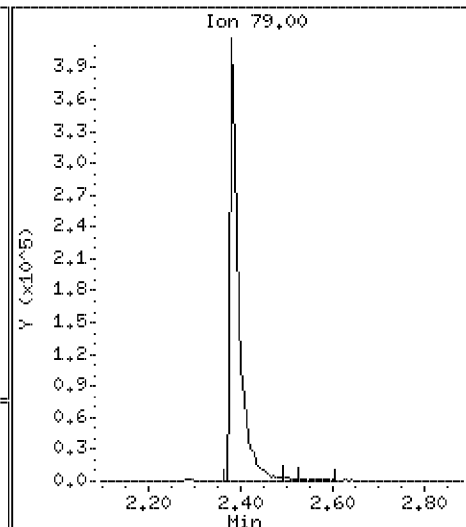
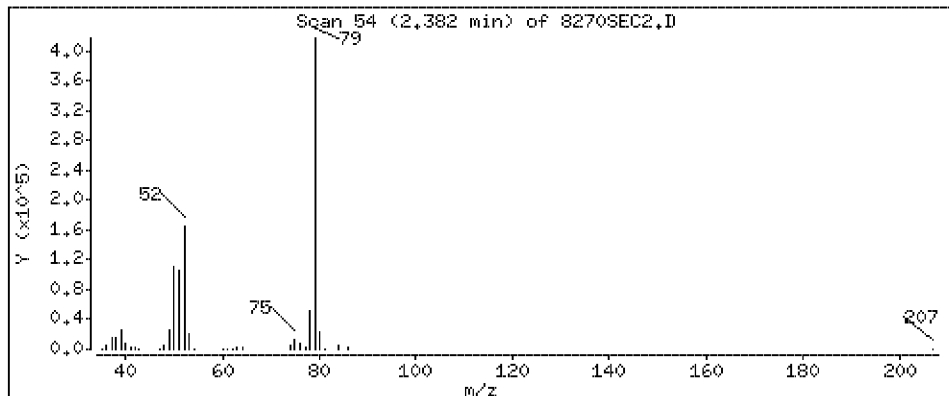
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

2 Pyridine

Concentration: 43.7 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

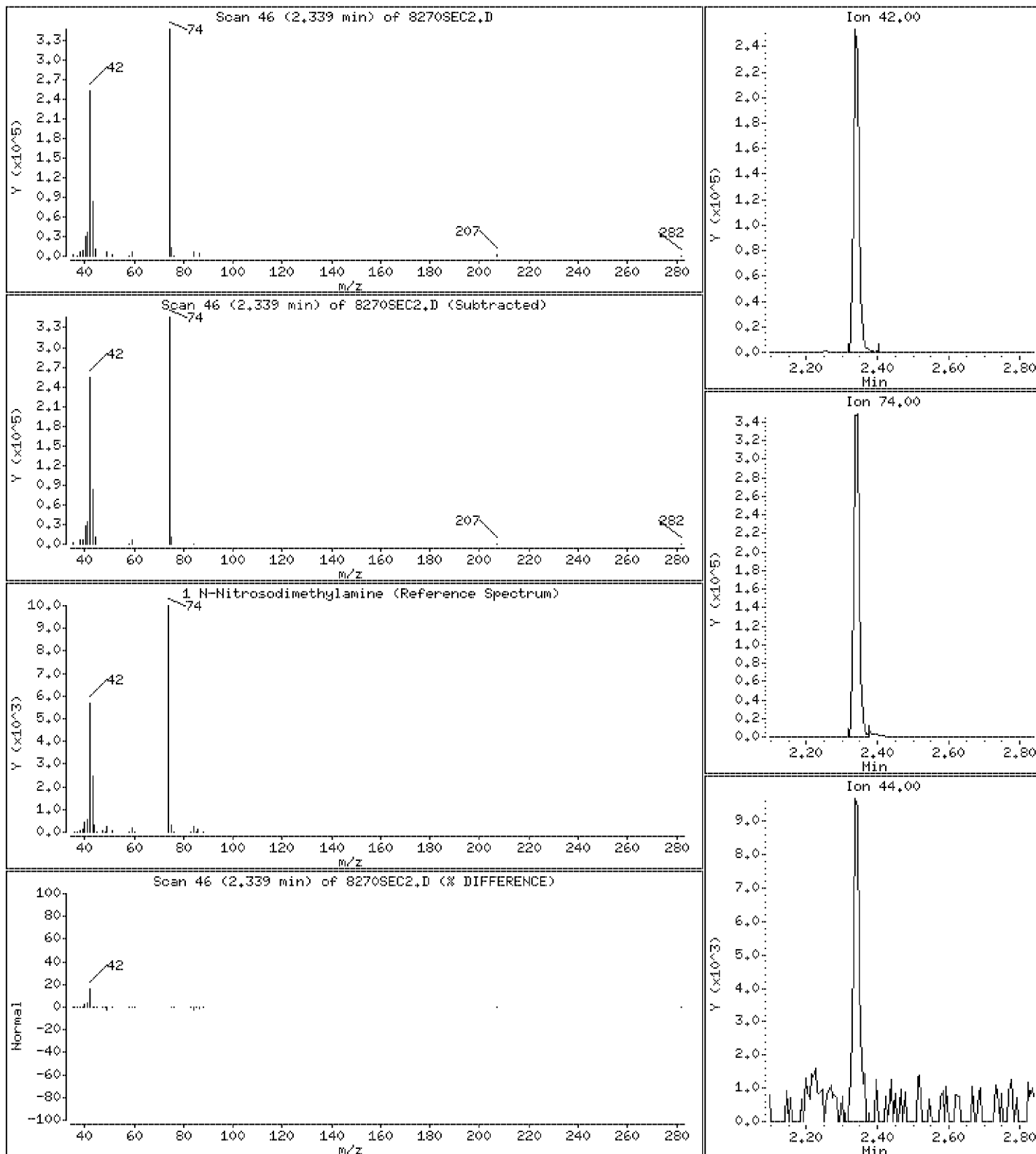
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

1 N-Nitrosodimethylamine

Concentration: 46.0 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

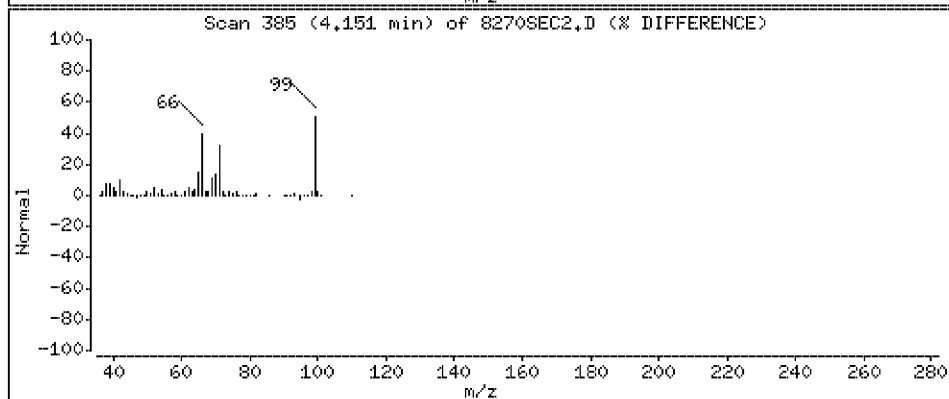
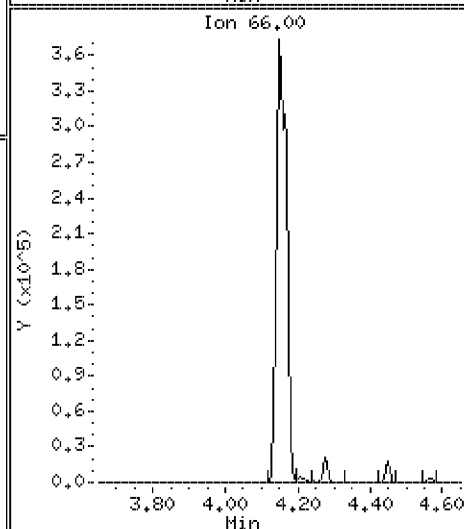
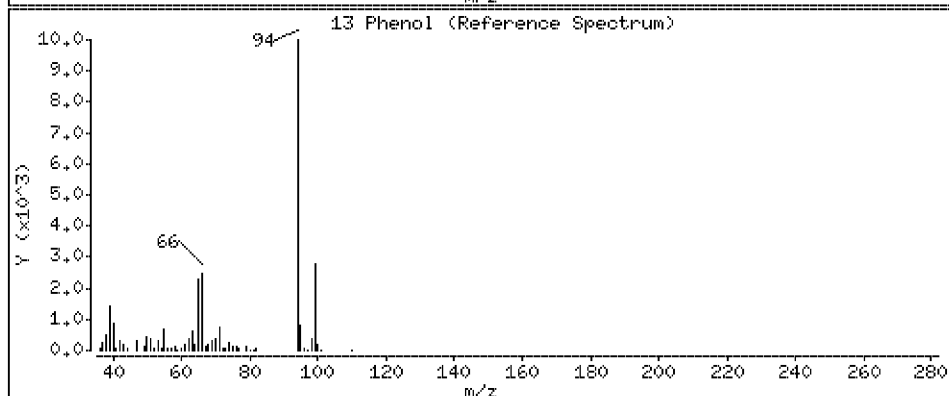
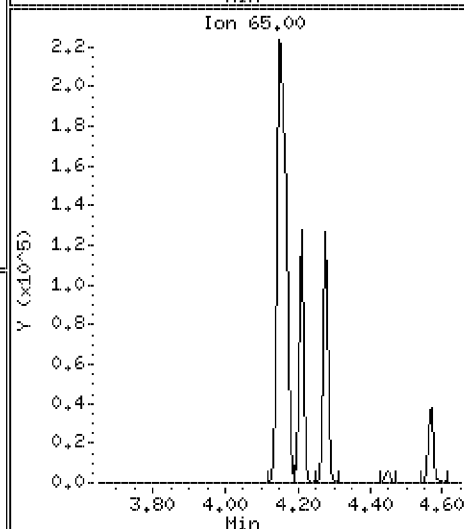
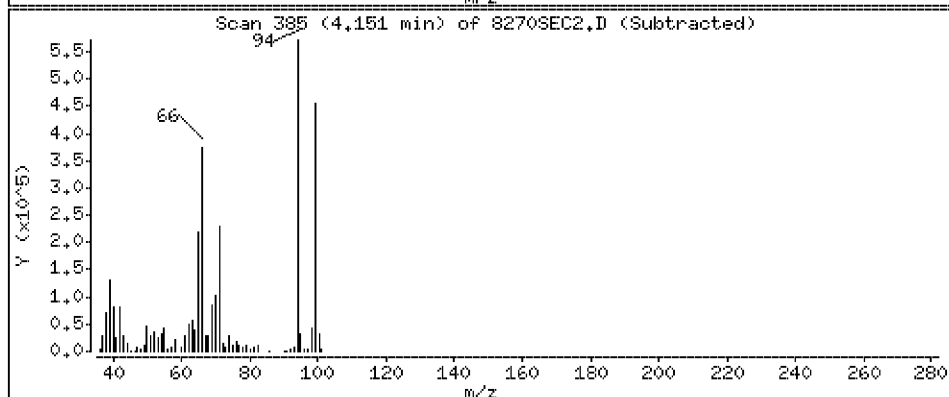
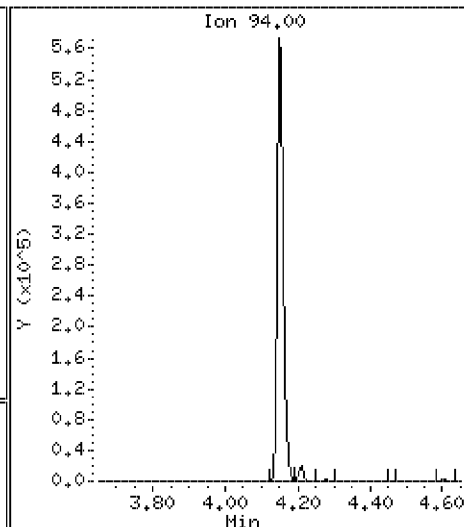
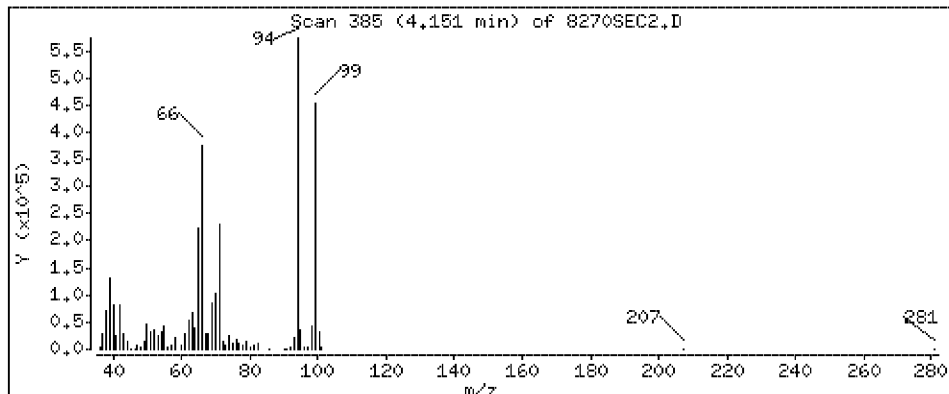
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

13 Phenol

Concentration: 45.2 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

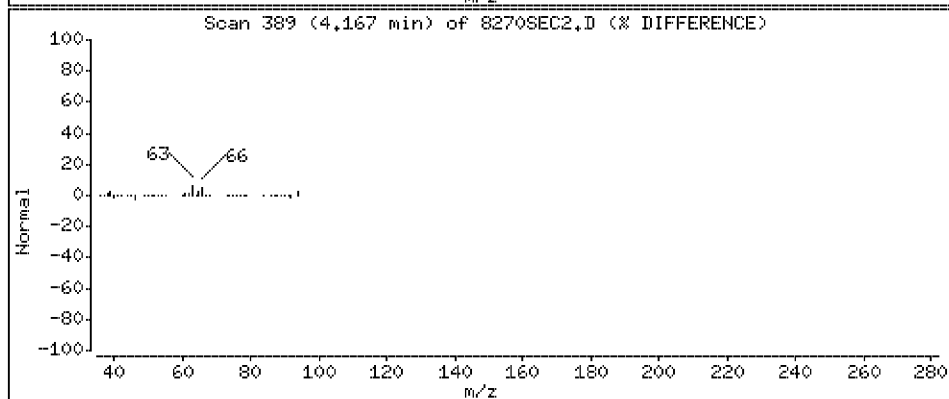
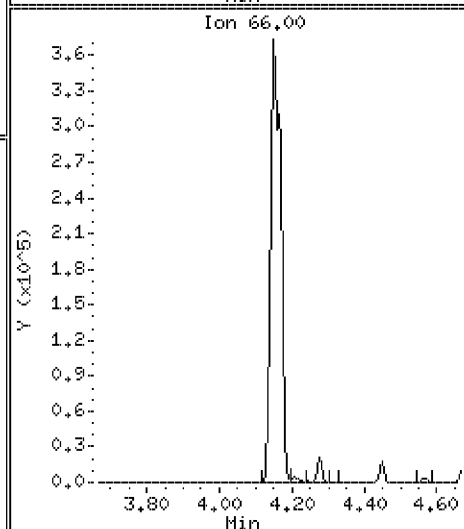
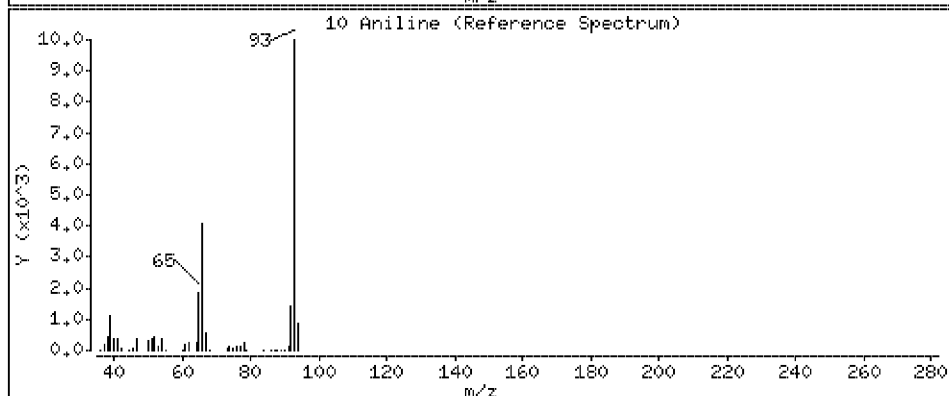
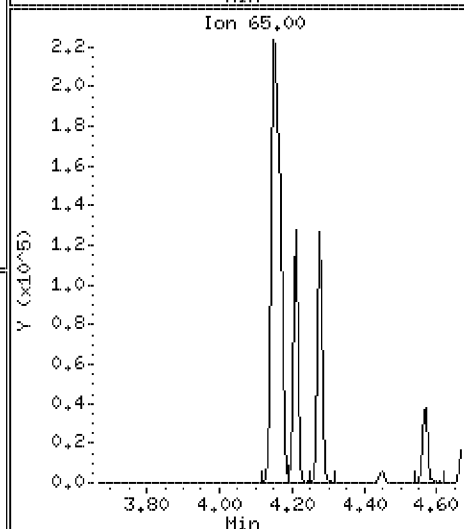
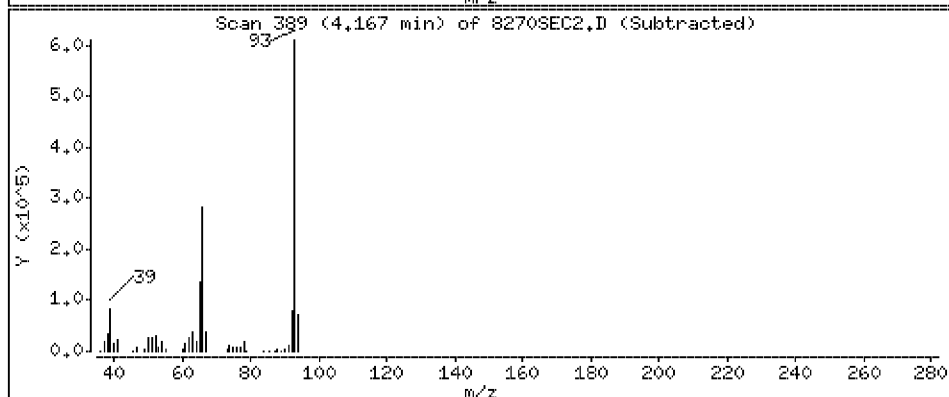
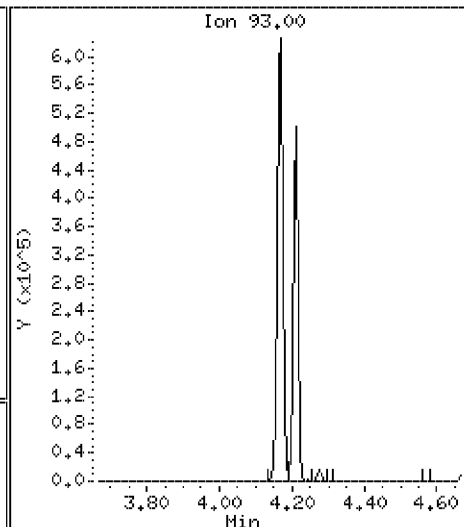
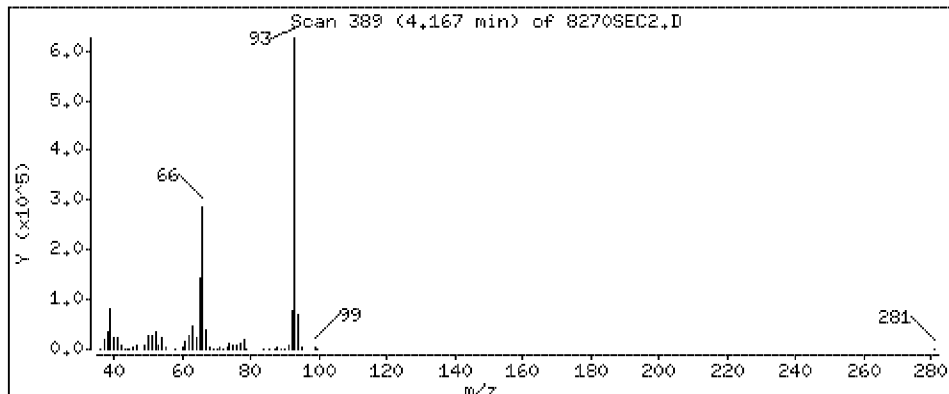
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

10 Aniline

Concentration: 43.2 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

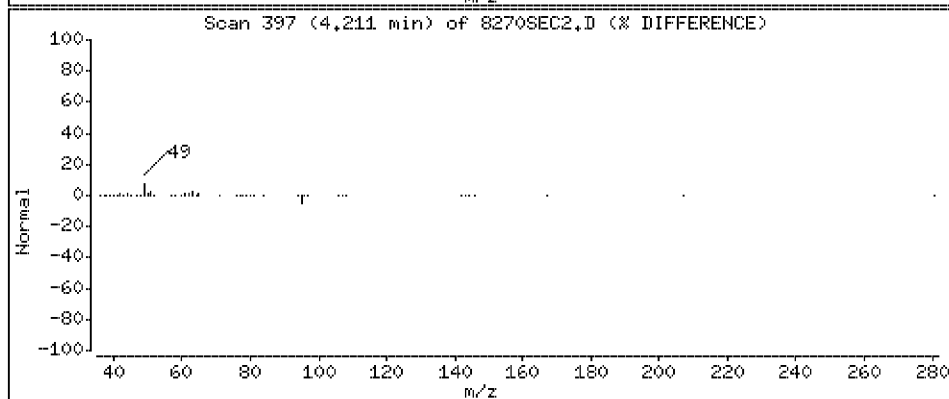
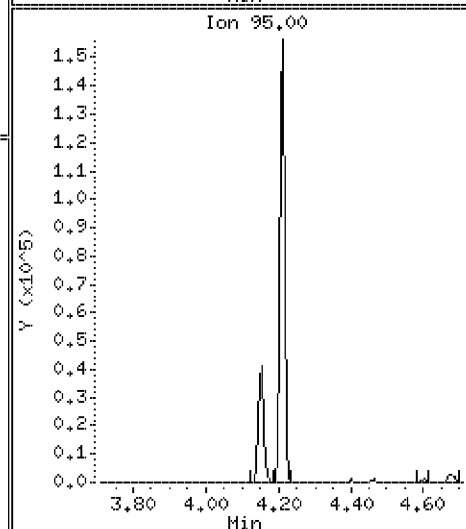
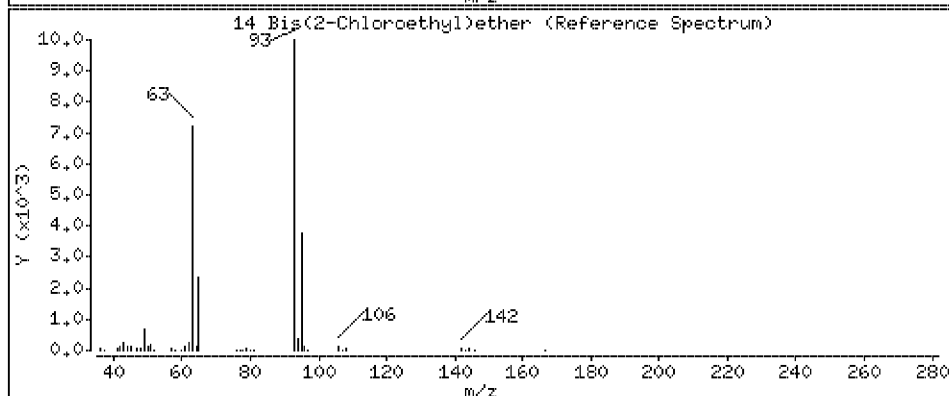
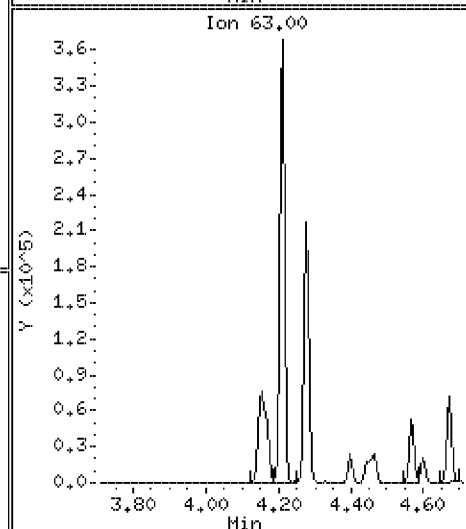
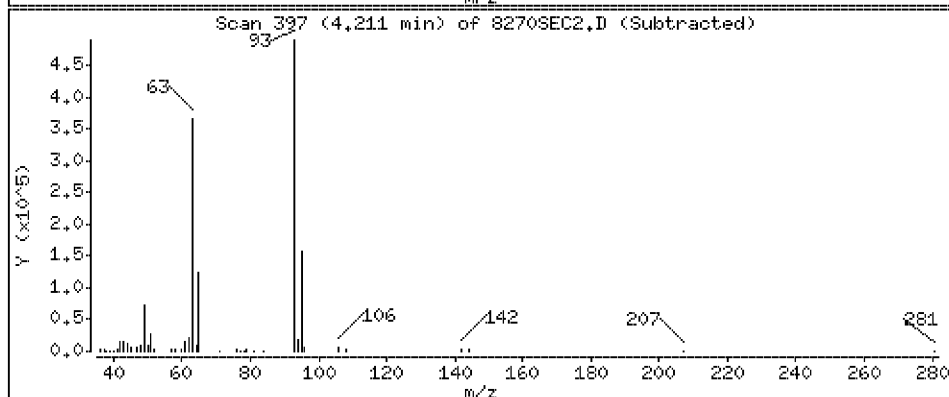
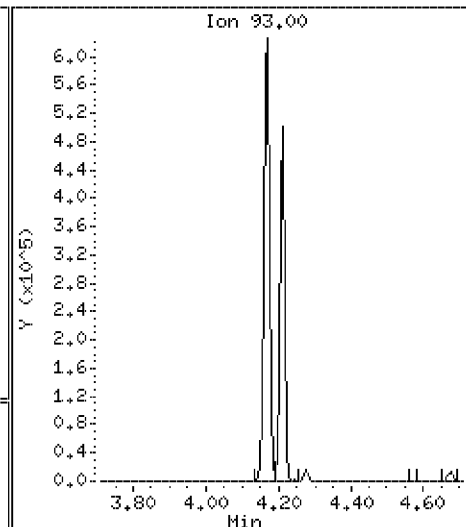
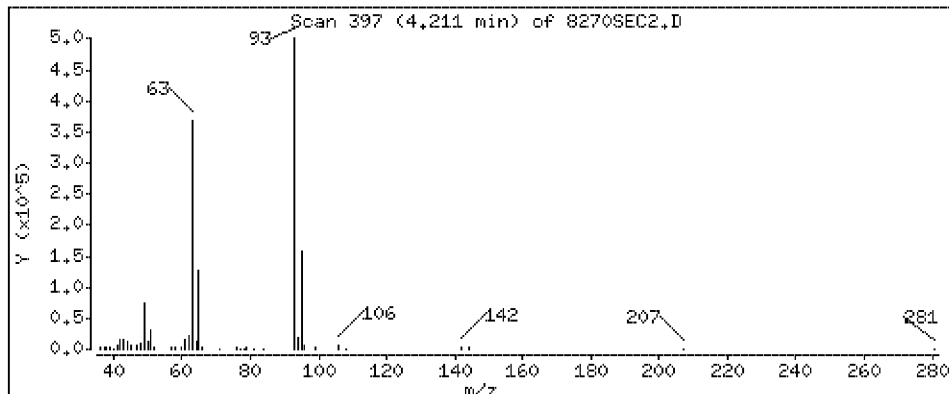
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

14 Bis(2-Chloroethyl)ether

Concentration: 48.4 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

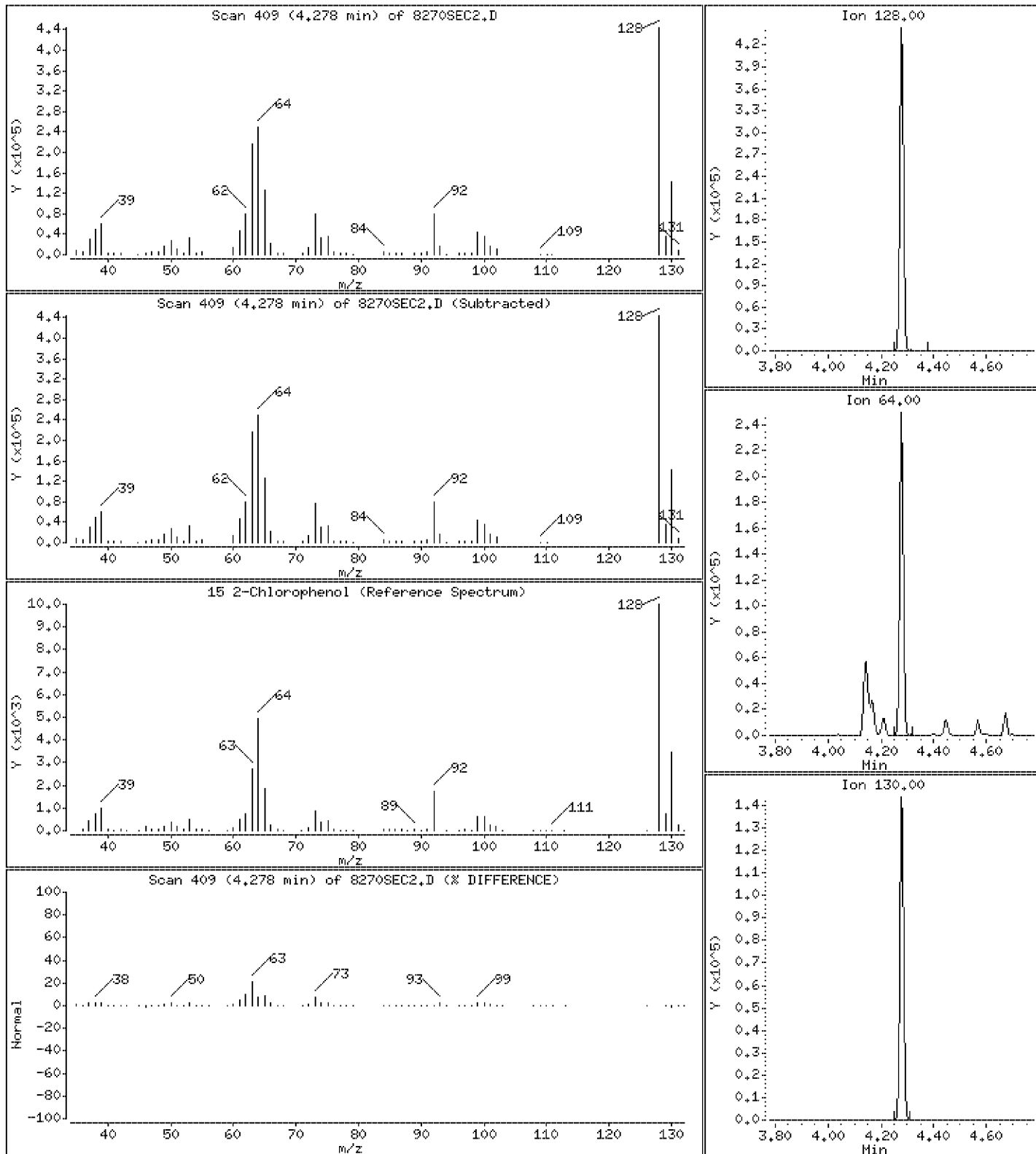
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

15 2-Chlorophenol

Concentration: 44.8 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

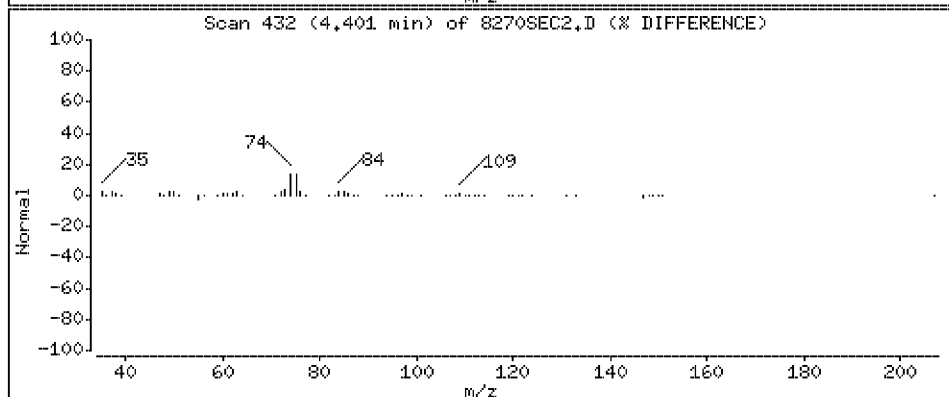
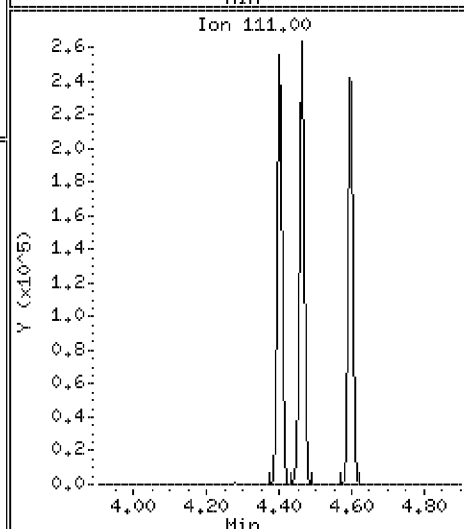
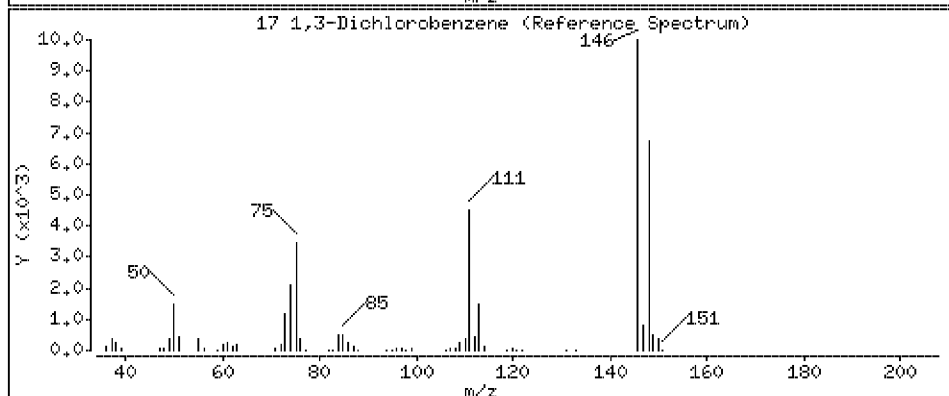
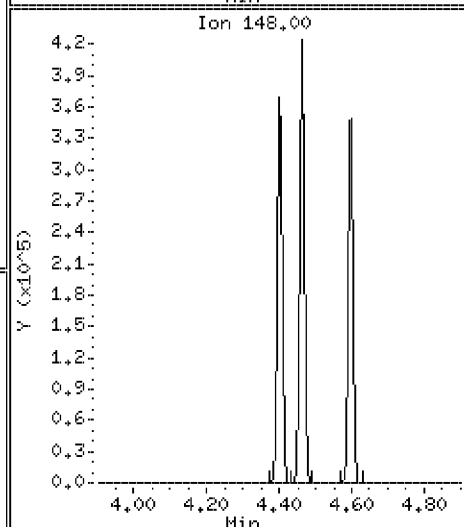
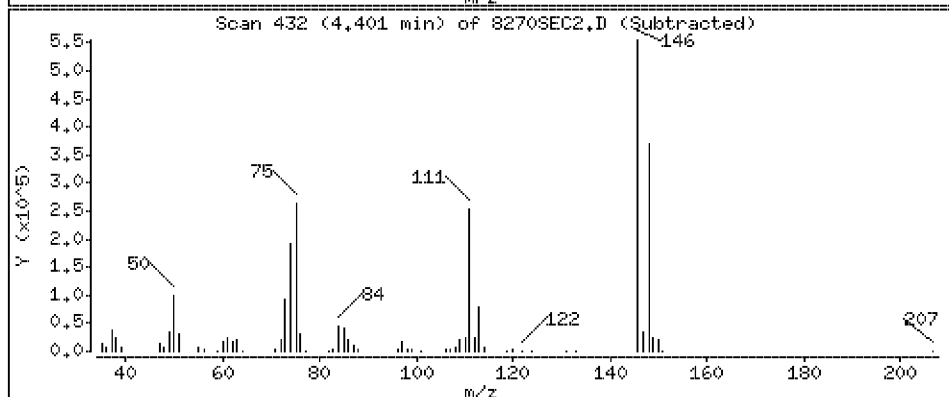
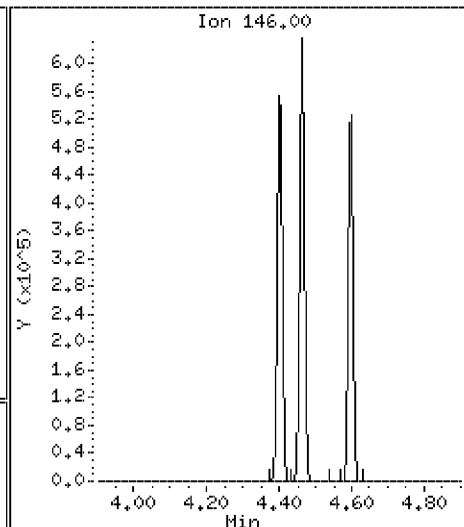
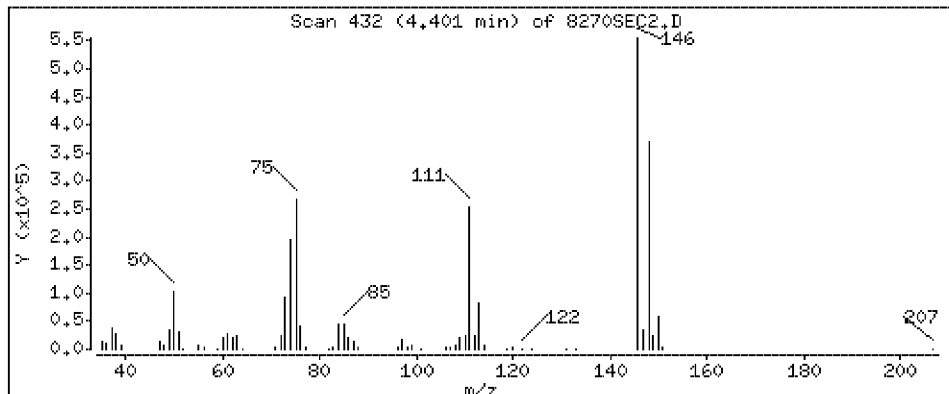
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

17 1,3-Dichlorobenzene

Concentration: 45.2 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

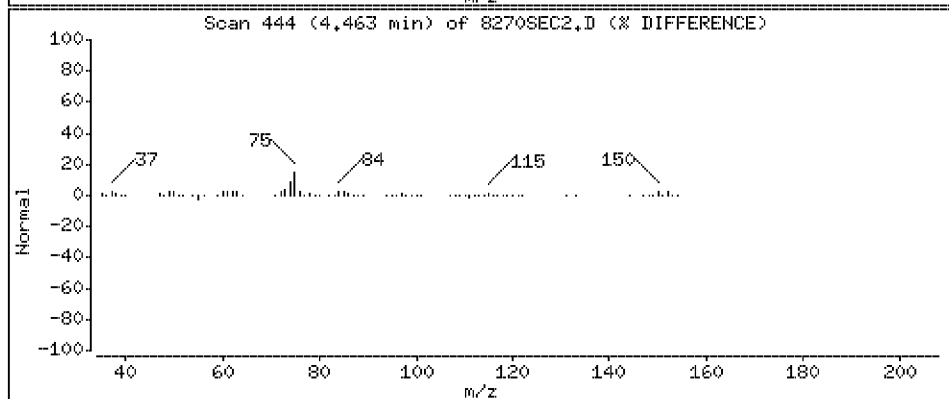
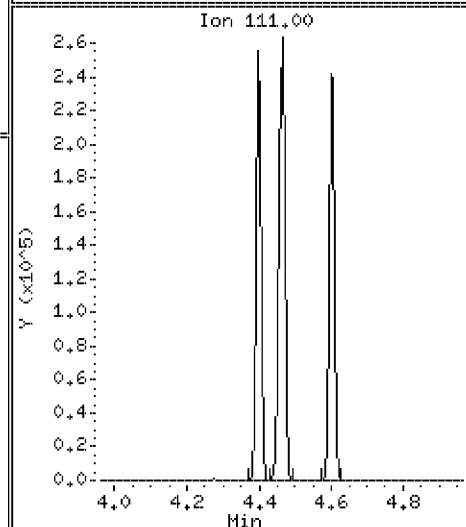
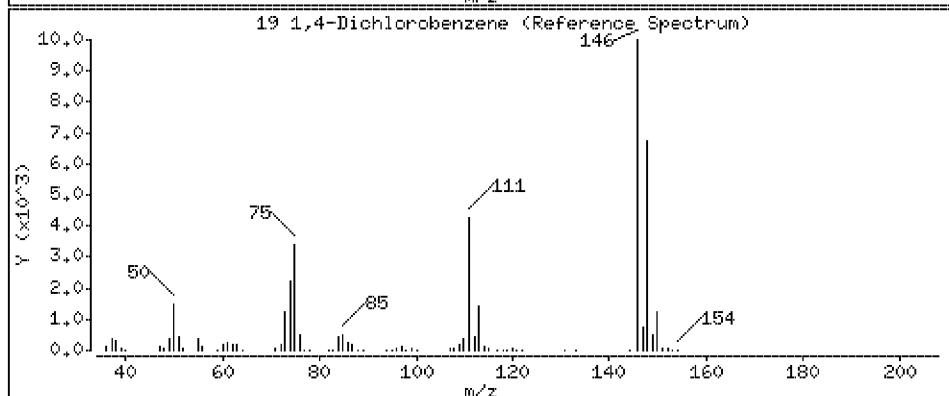
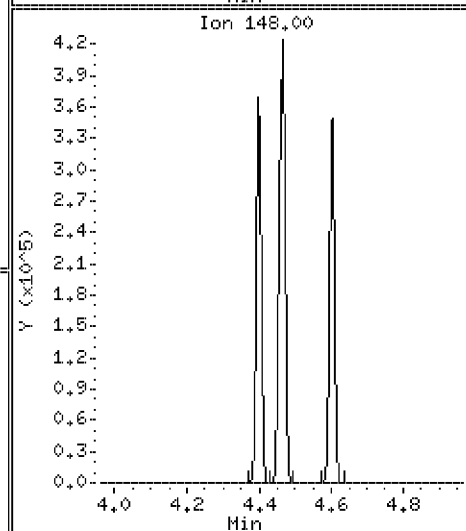
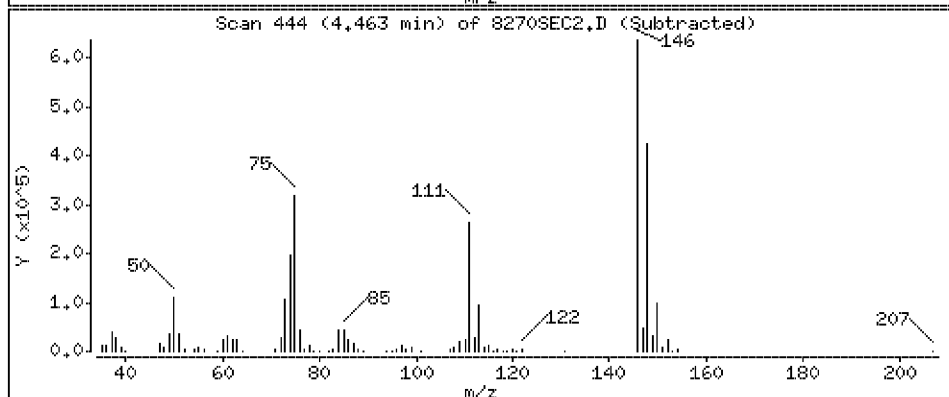
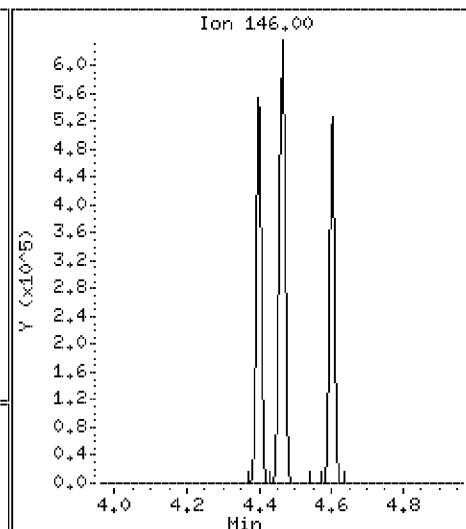
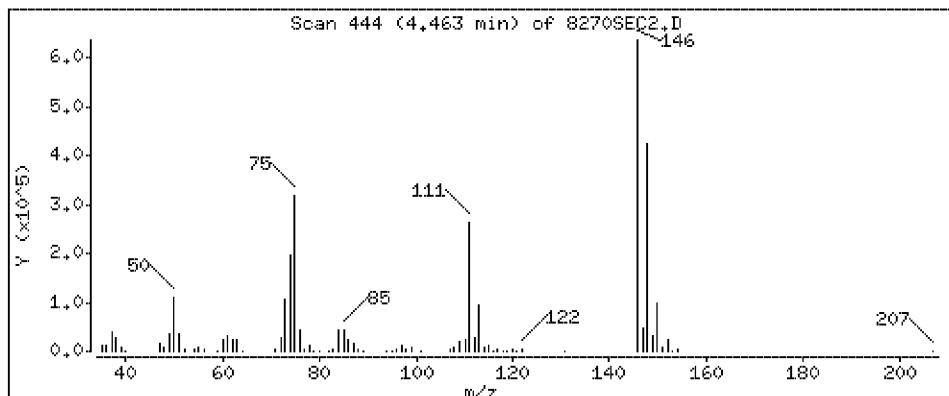
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

19 1,4-Dichlorobenzene

Concentration: 45.4 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

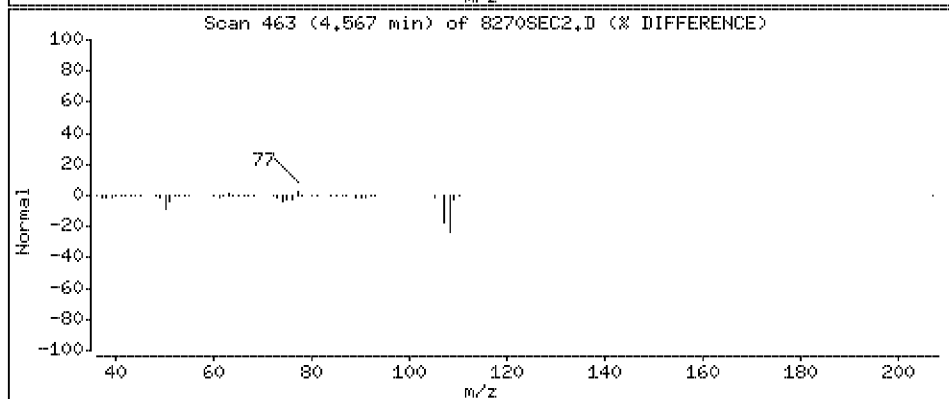
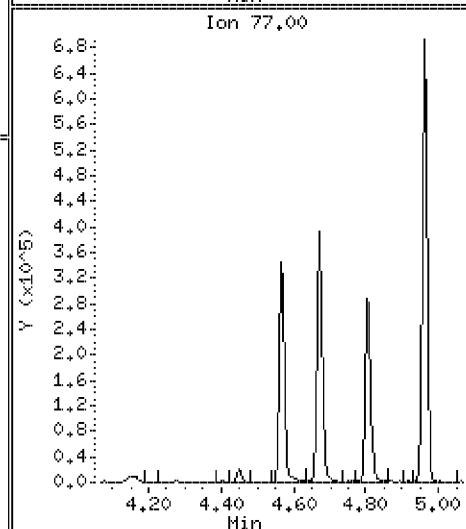
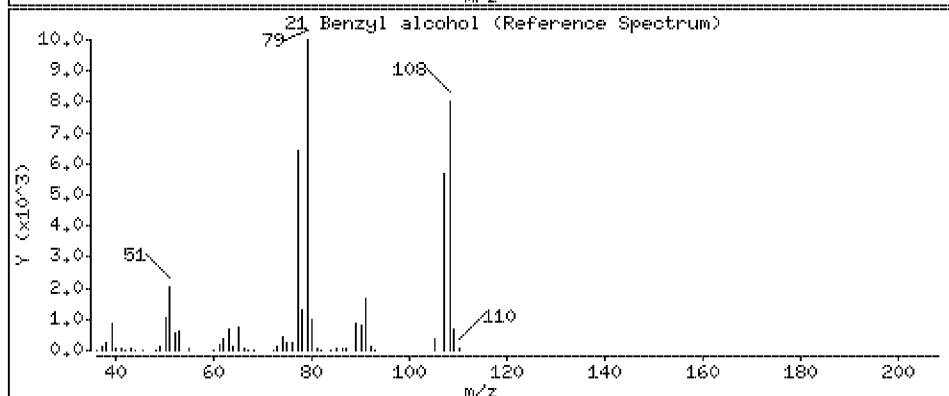
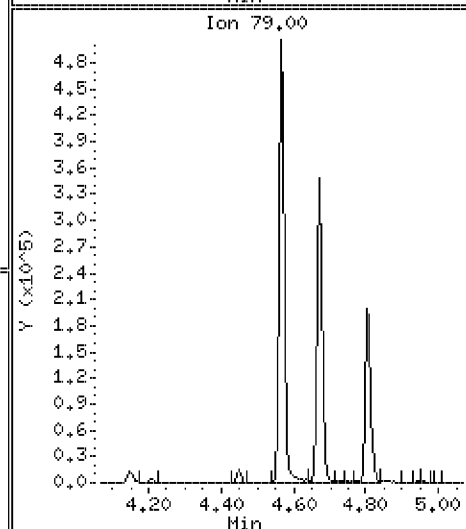
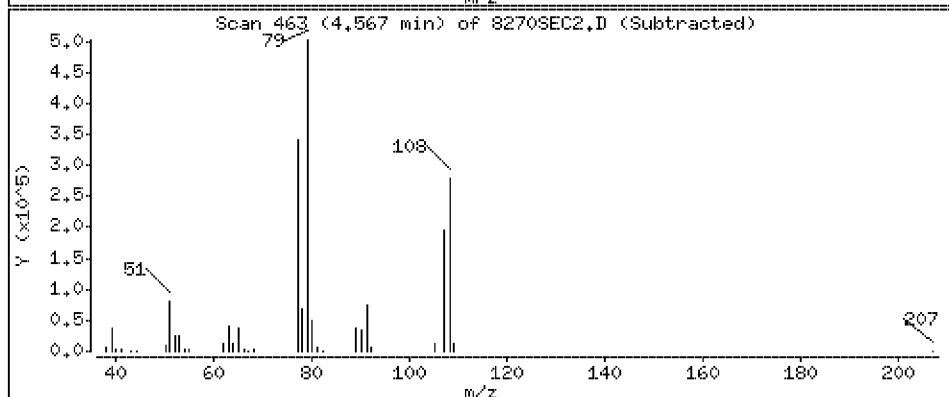
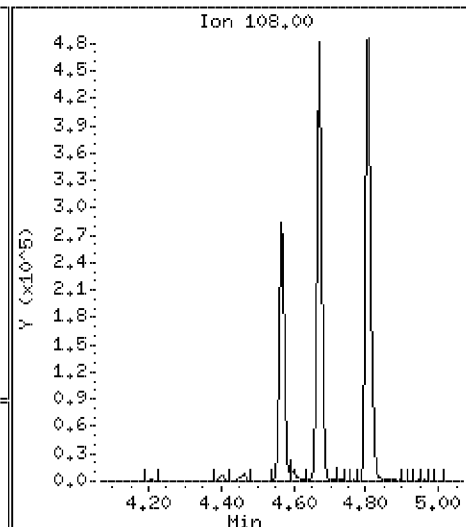
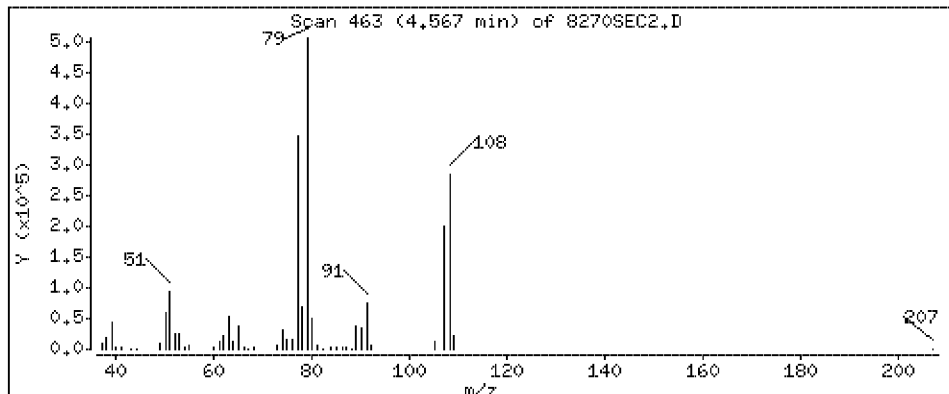
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

21 Benzyl alcohol

Concentration: 41.9 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

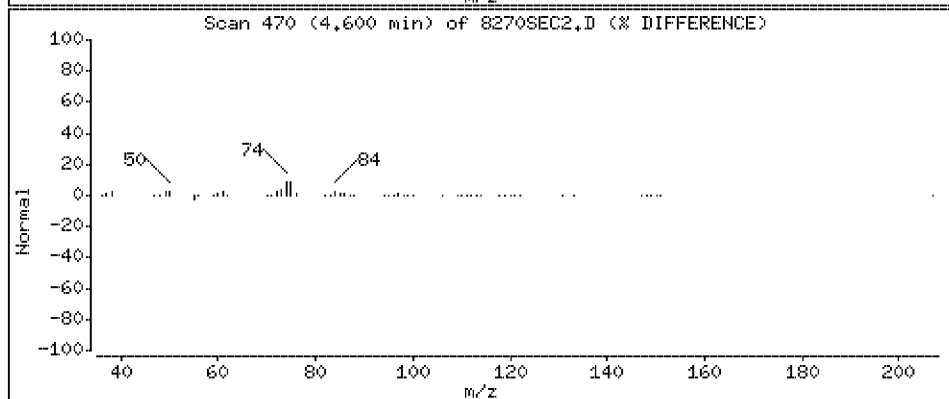
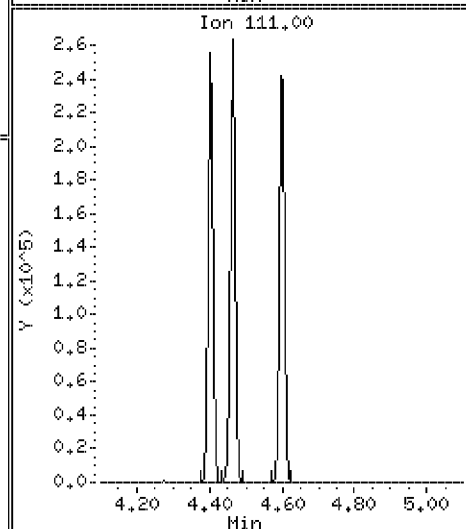
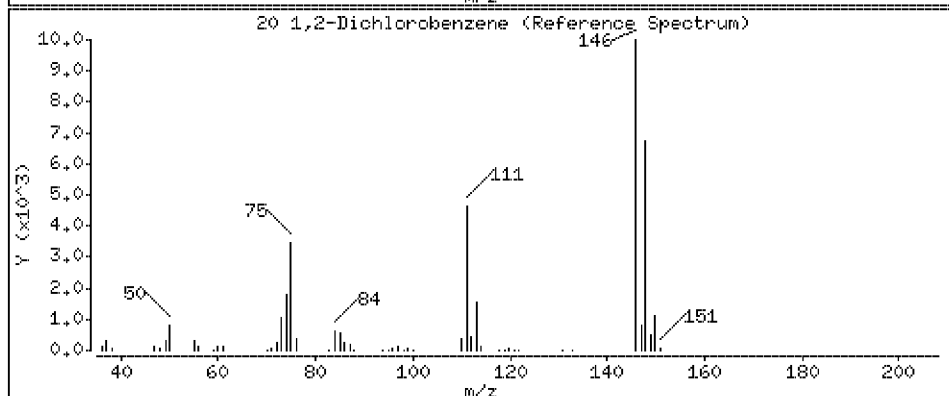
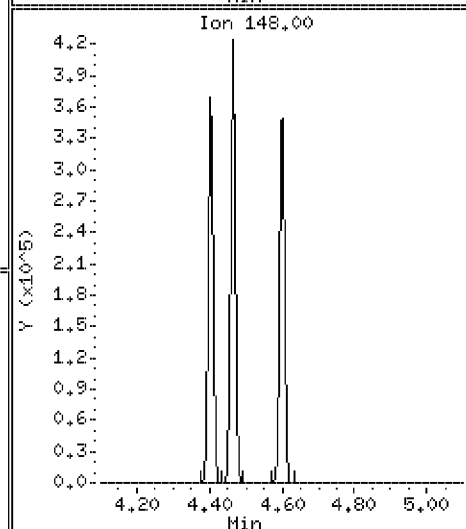
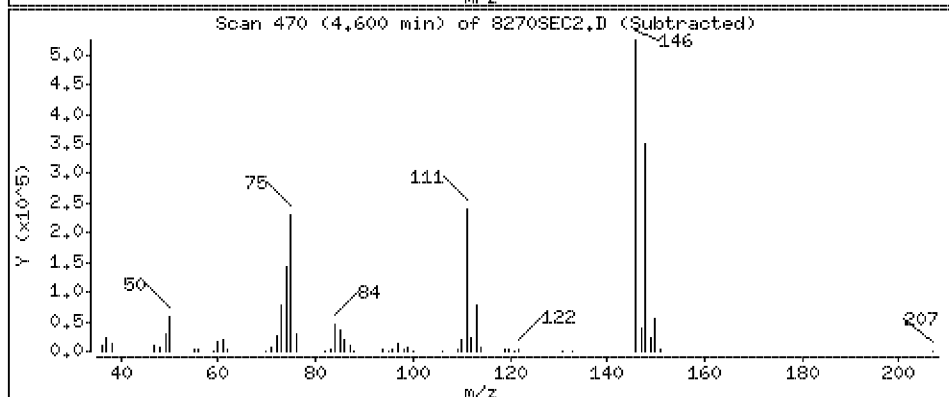
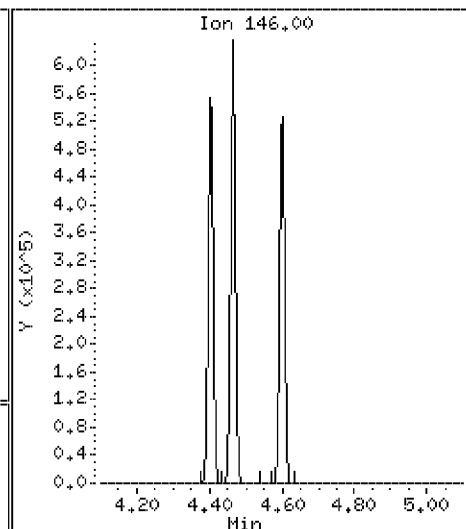
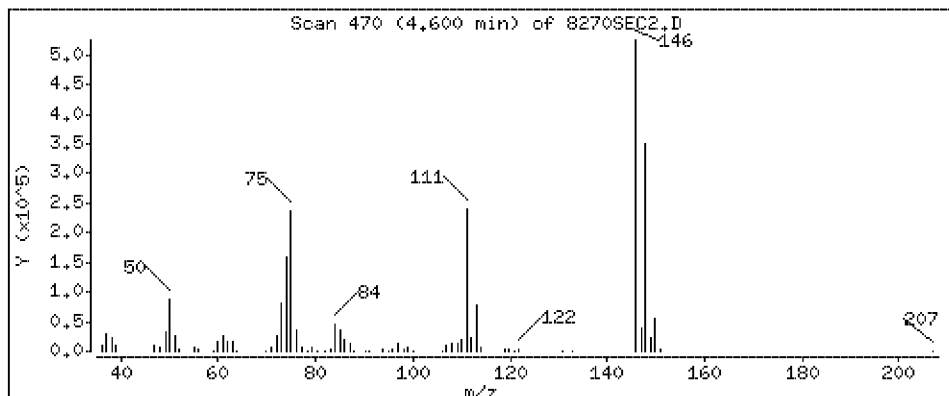
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

20 1,2-Dichlorobenzene

Concentration: 45.0 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

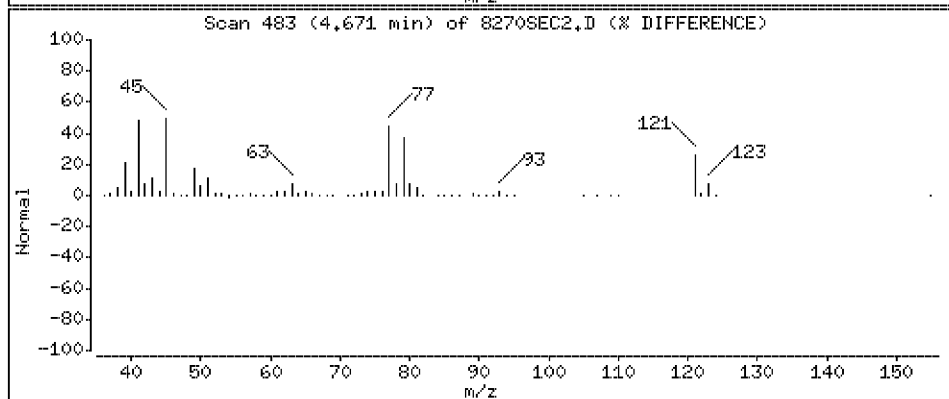
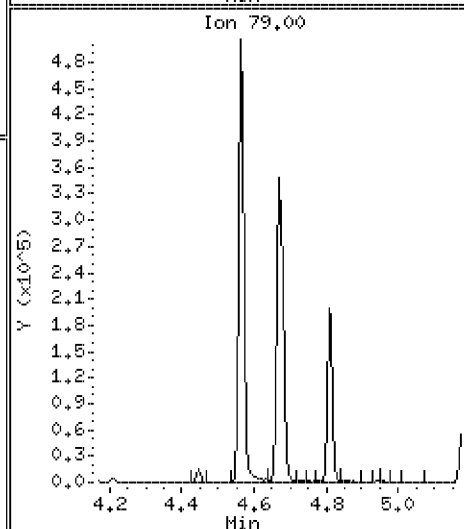
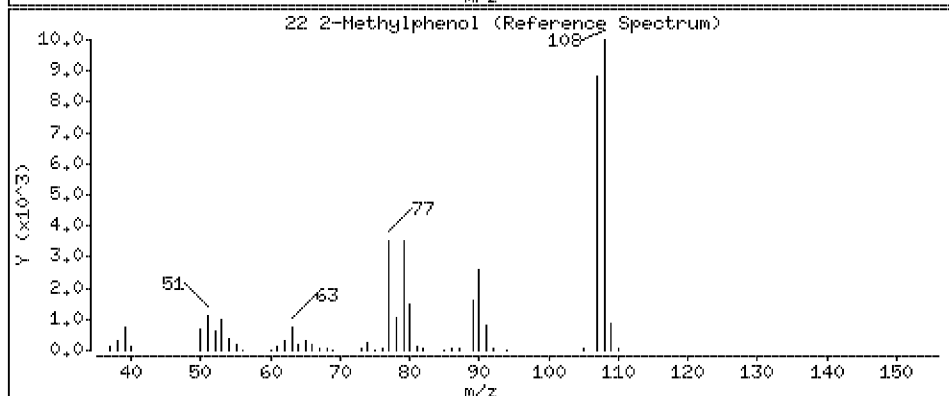
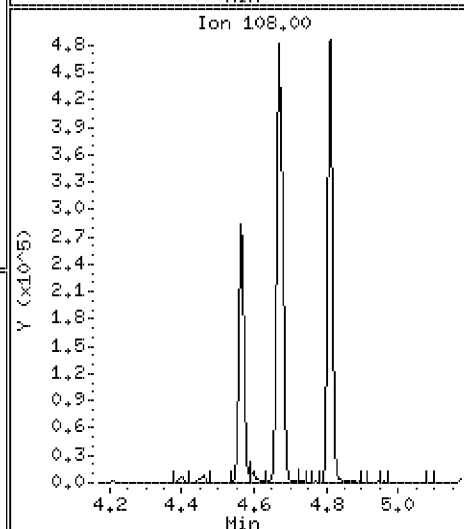
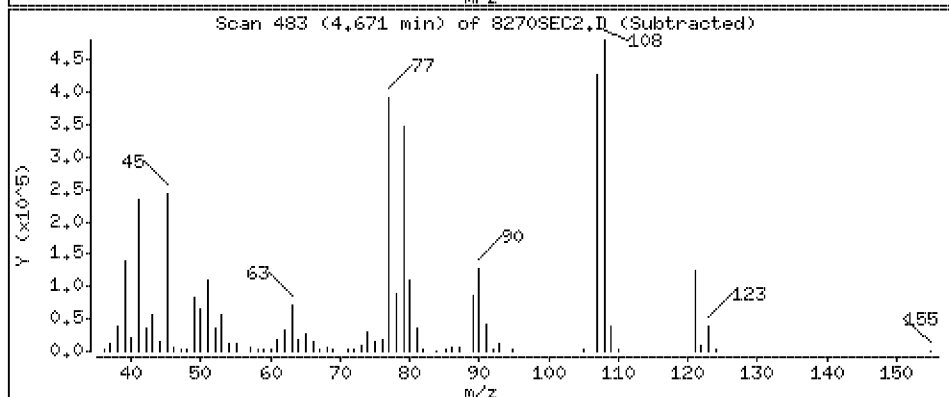
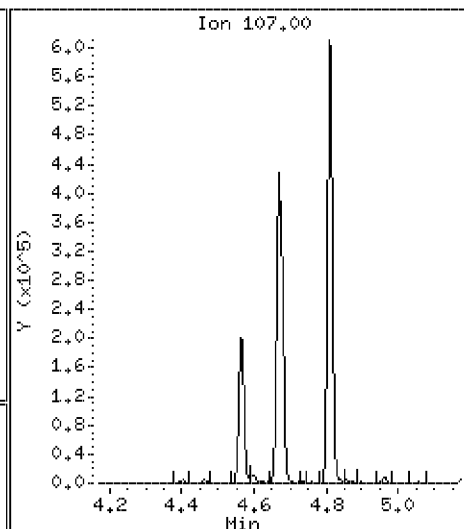
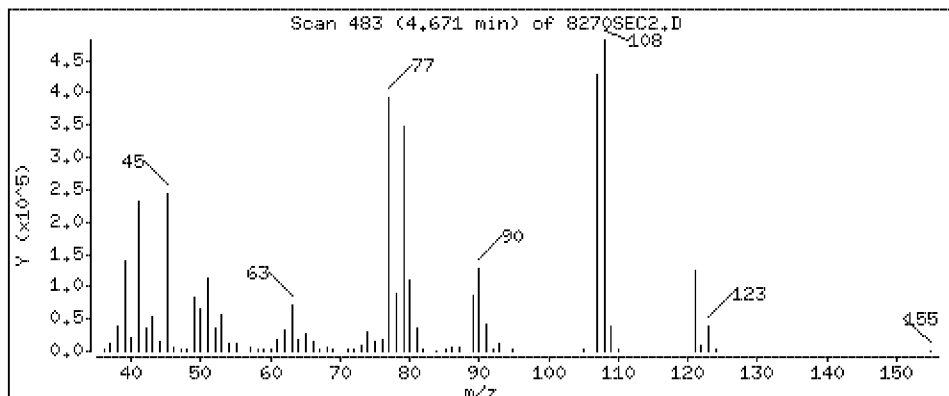
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

22 2-Methylphenol

Concentration: 45.0 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

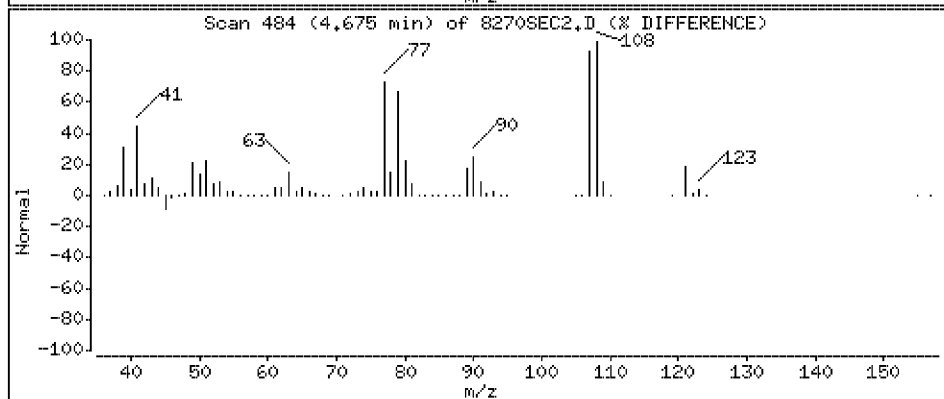
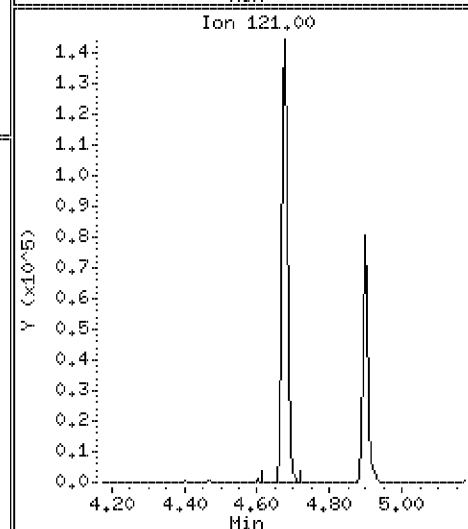
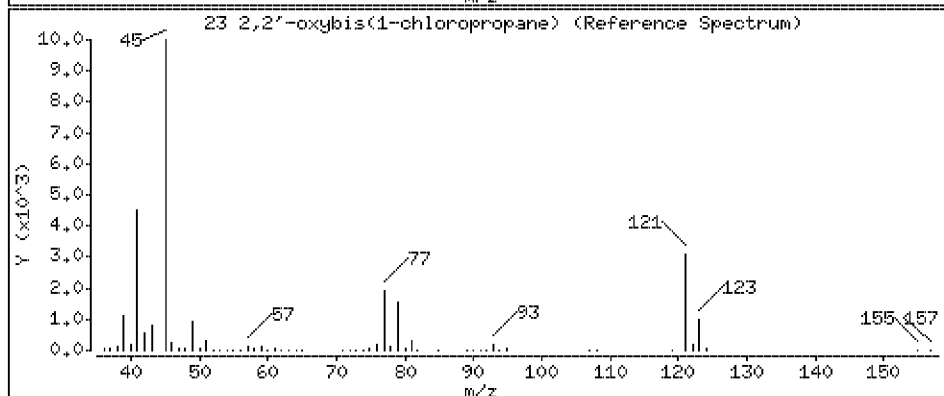
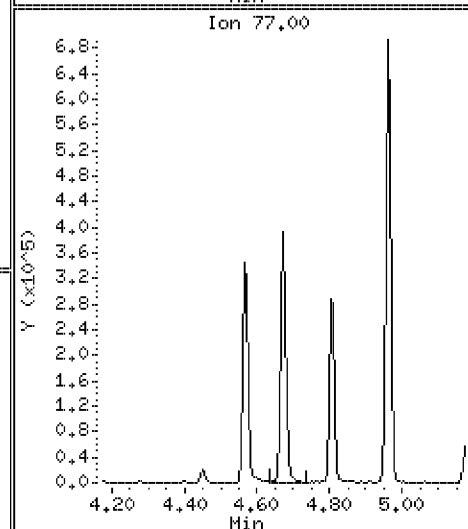
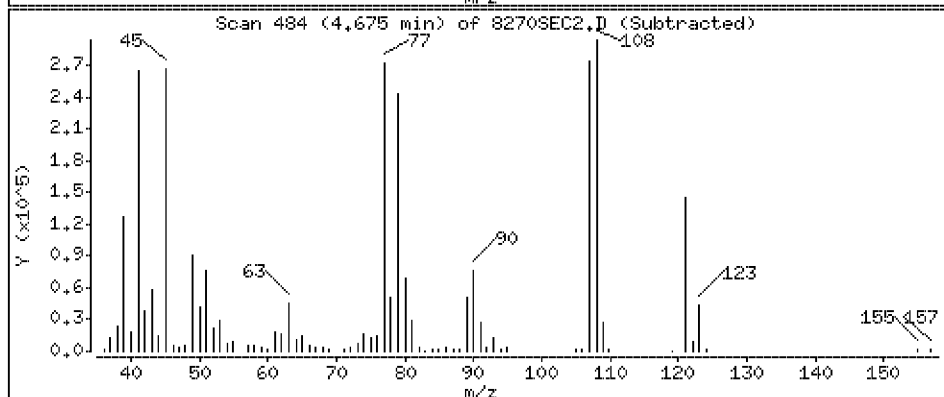
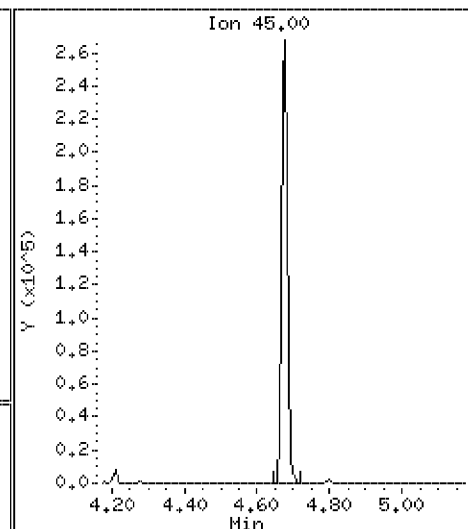
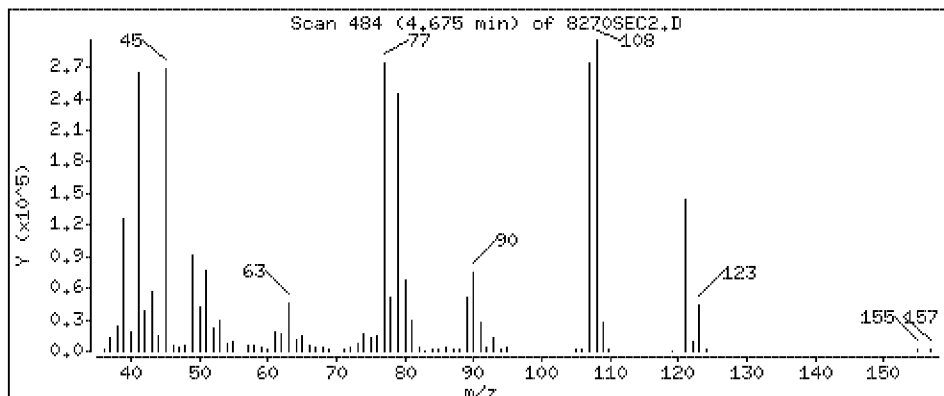
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

23 2,2'-oxybis(1-chloropropane)

Concentration: 46.6 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

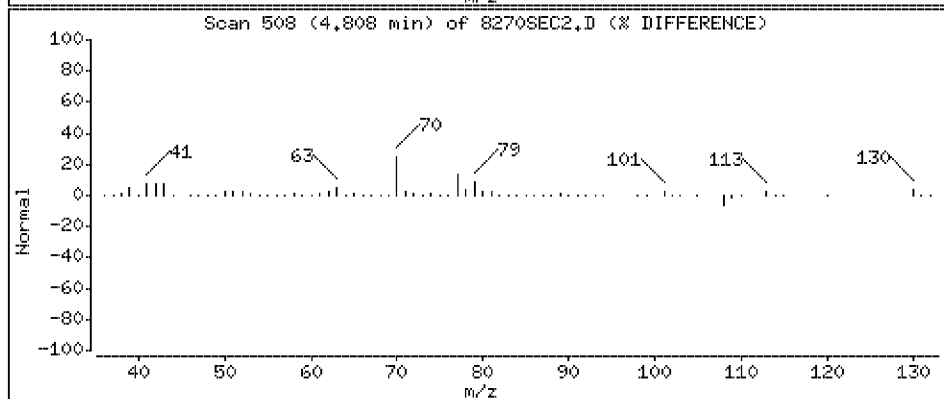
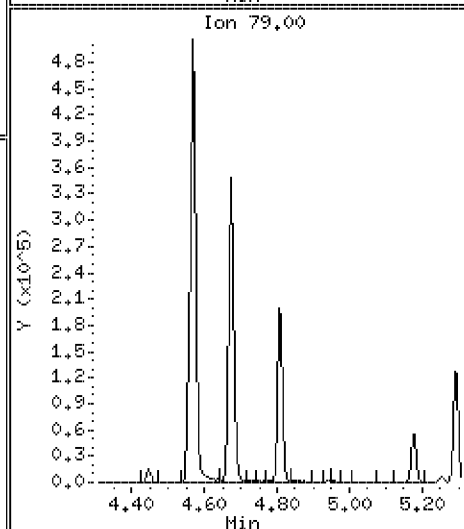
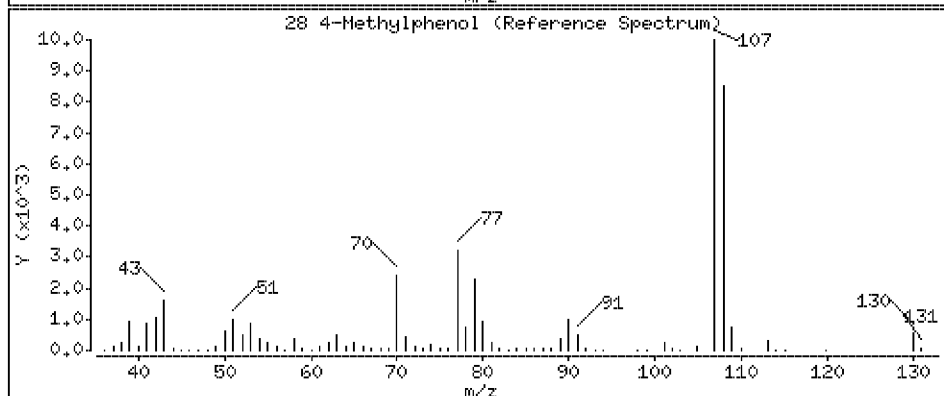
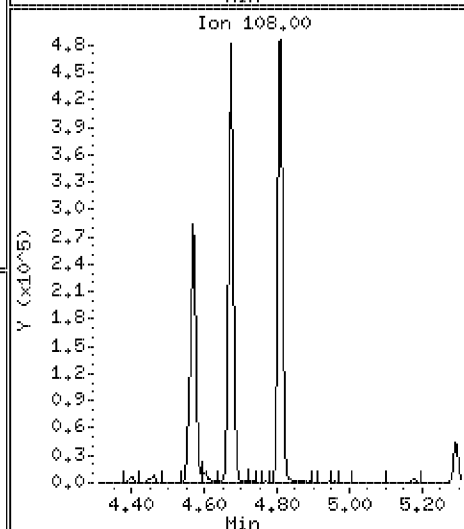
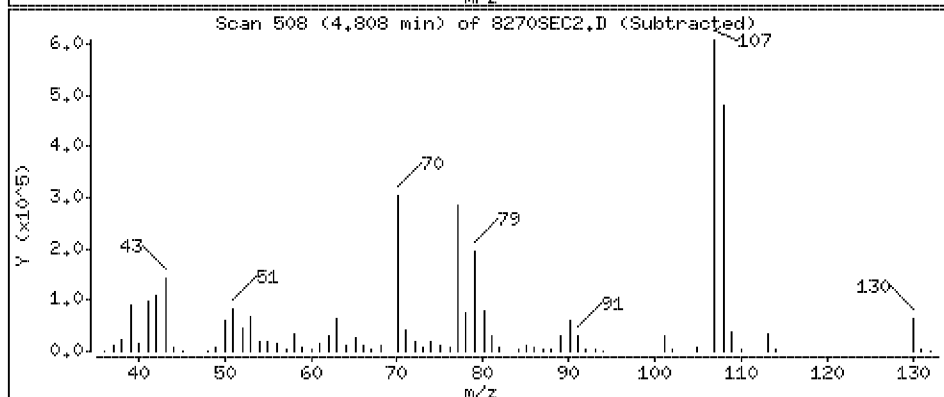
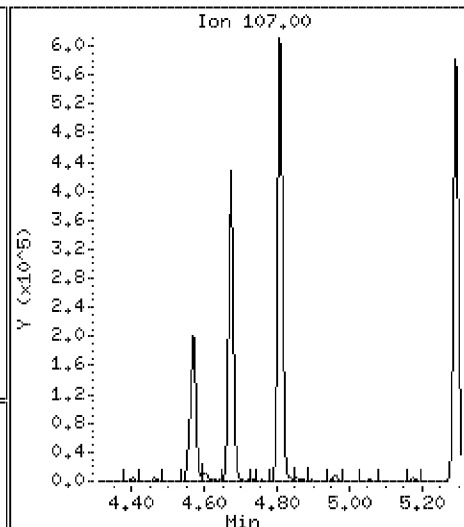
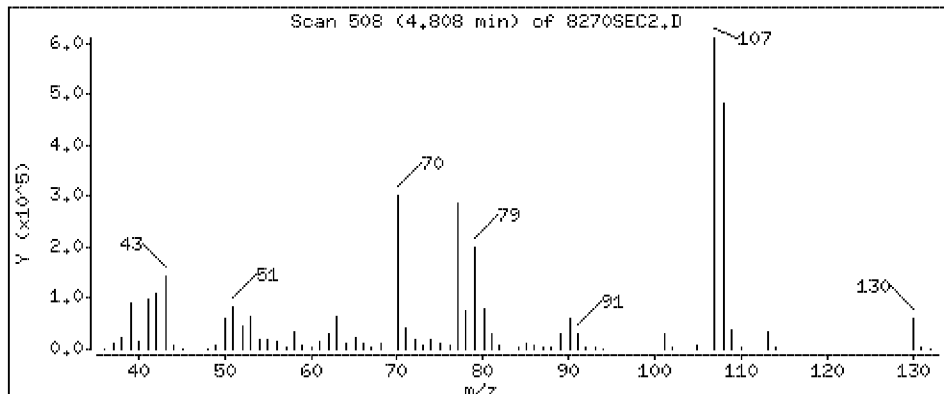
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

28 4-Methylphenol

Concentration: 45.8 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

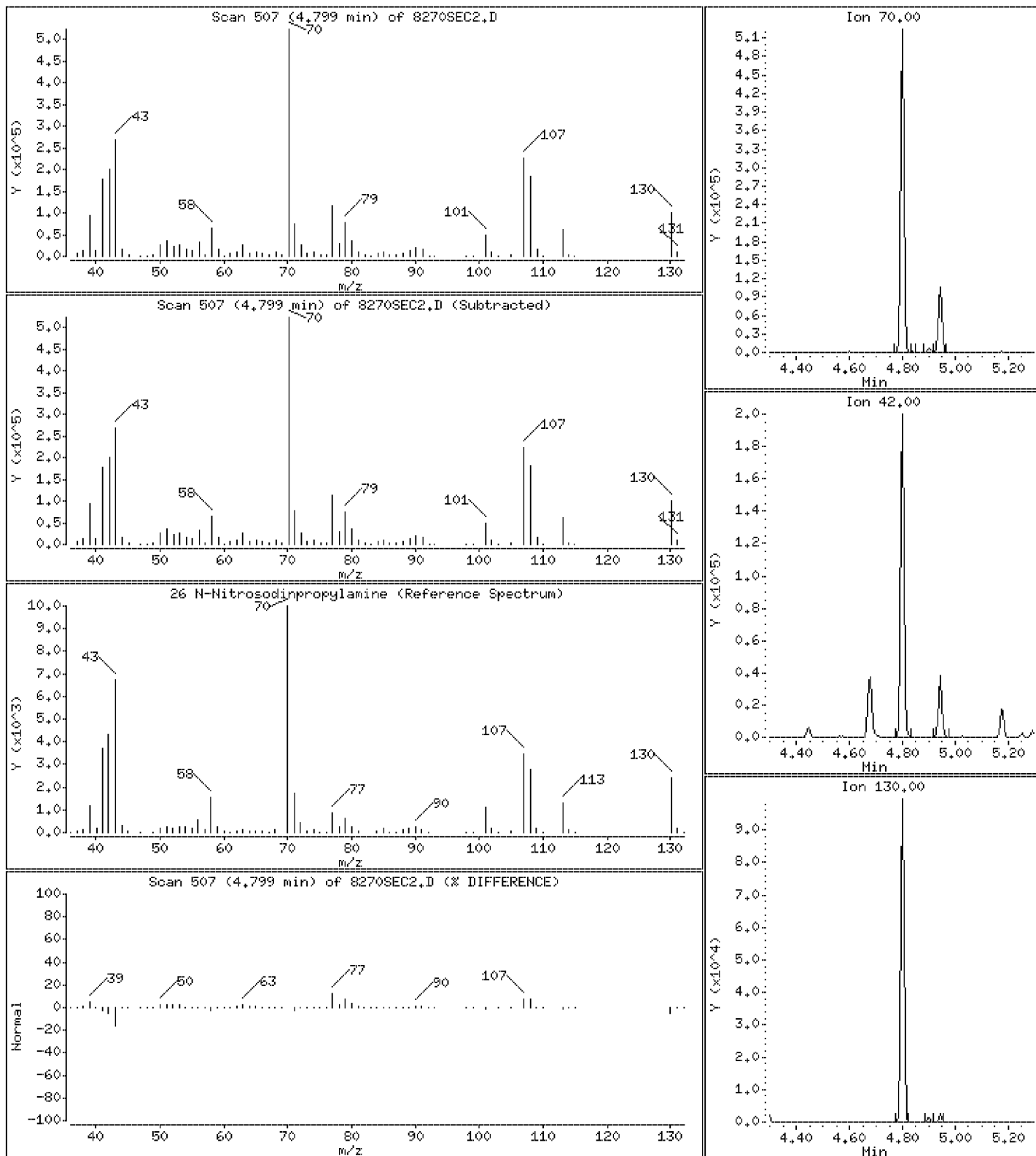
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

26 N-Nitrosodipropylamine

Concentration: 47.5 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

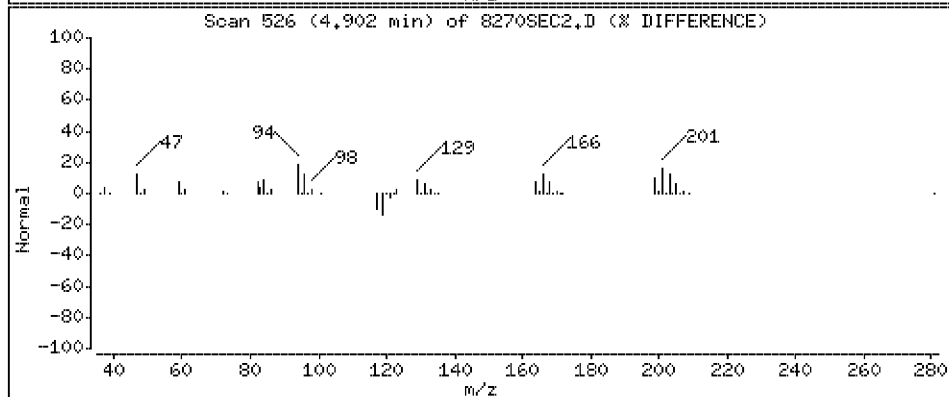
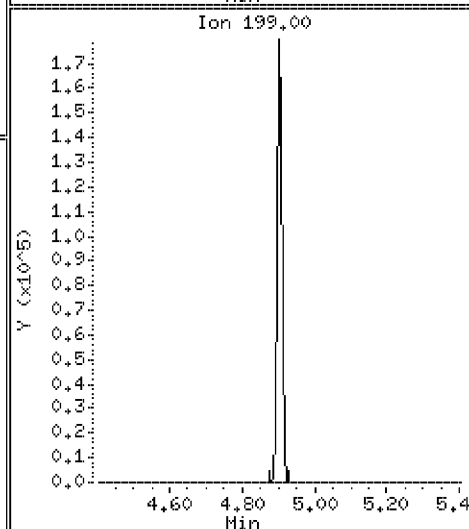
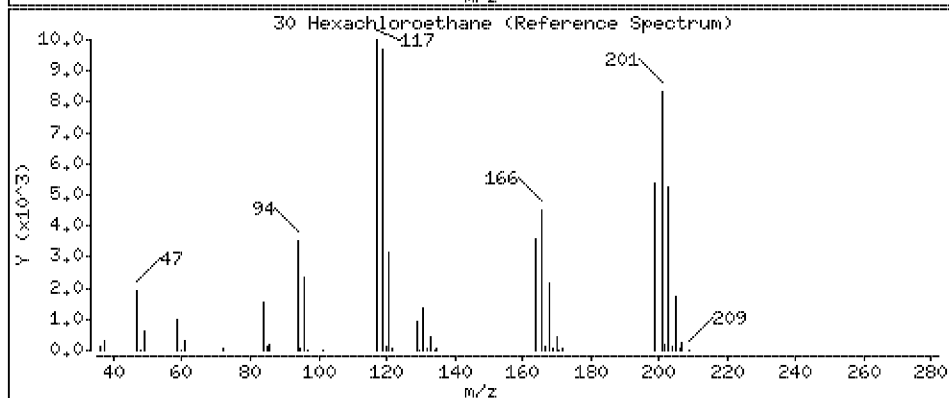
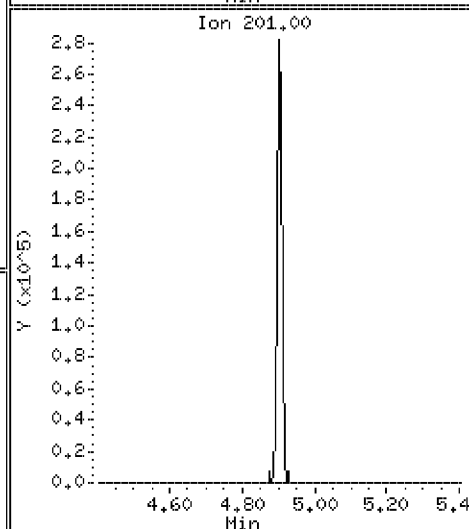
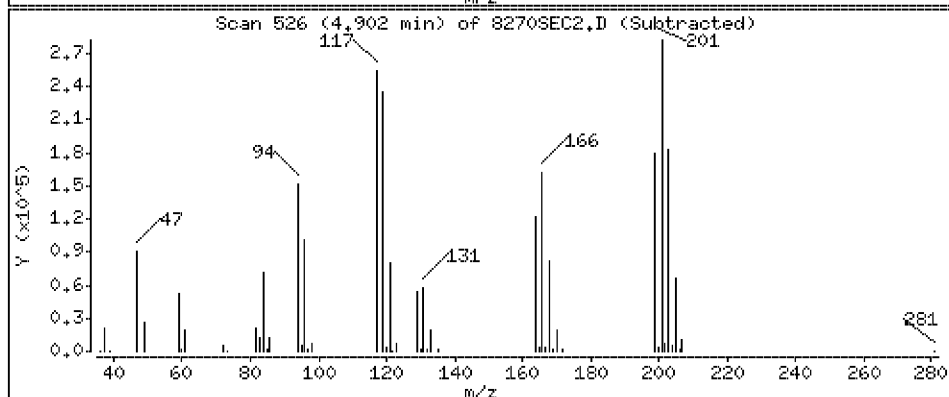
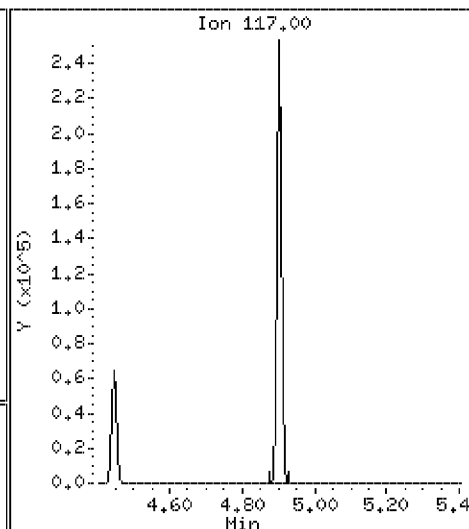
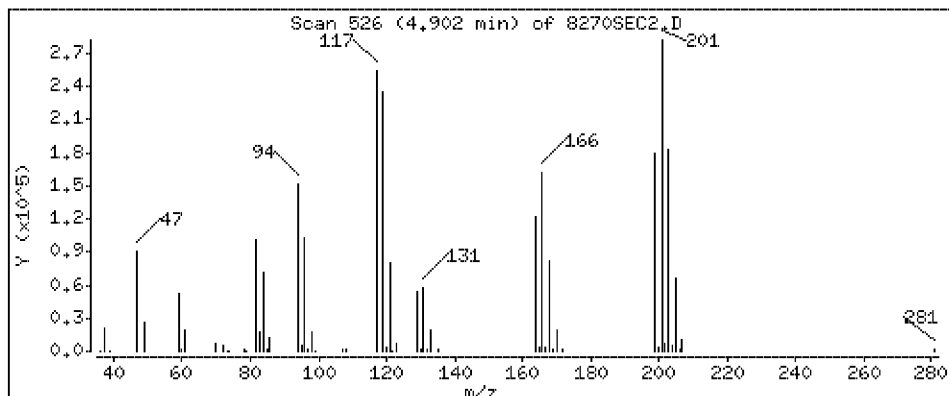
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

30 Hexachloroethane

Concentration: 44.9 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

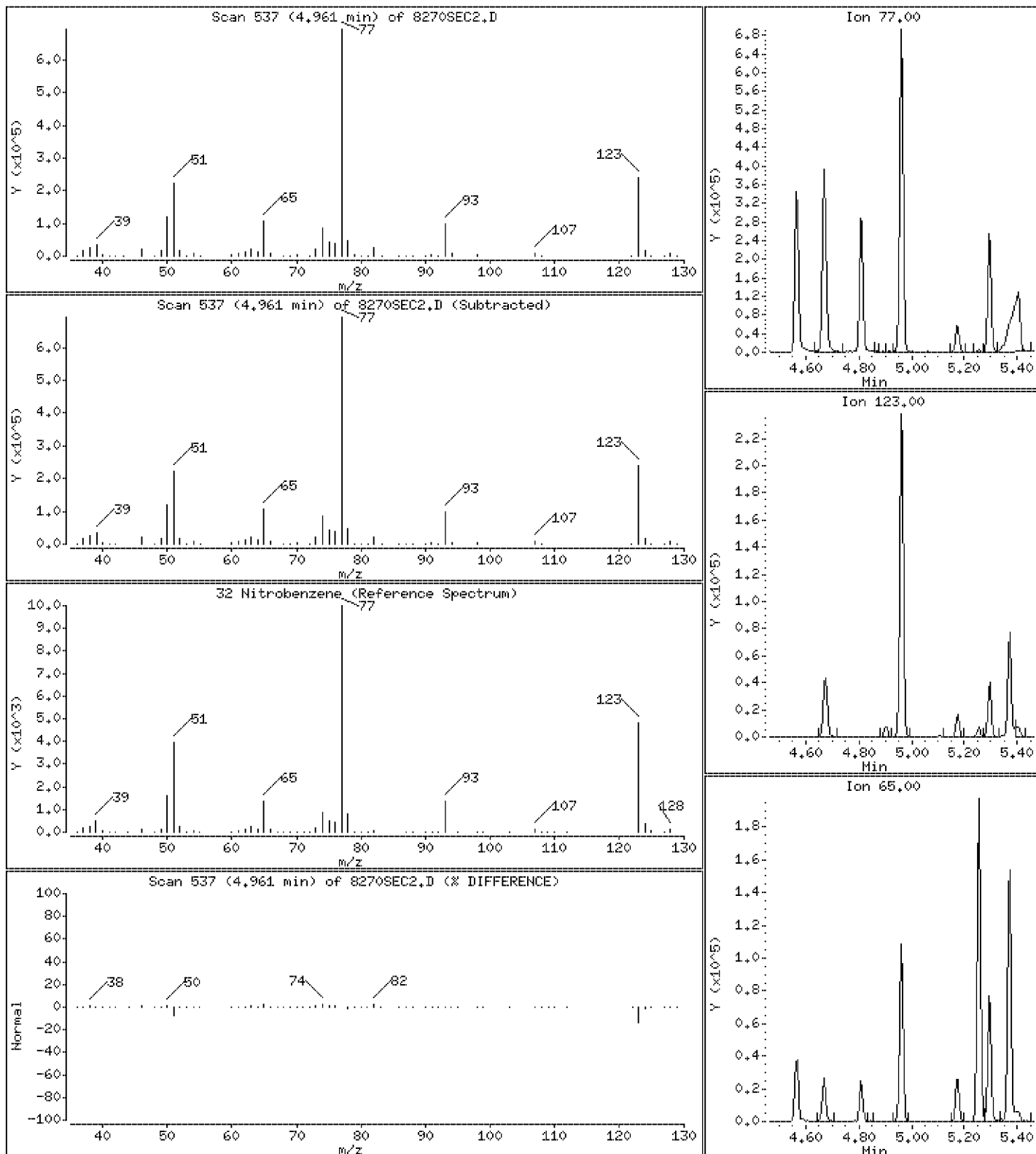
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

32 Nitrobenzene

Concentration: 44.6 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

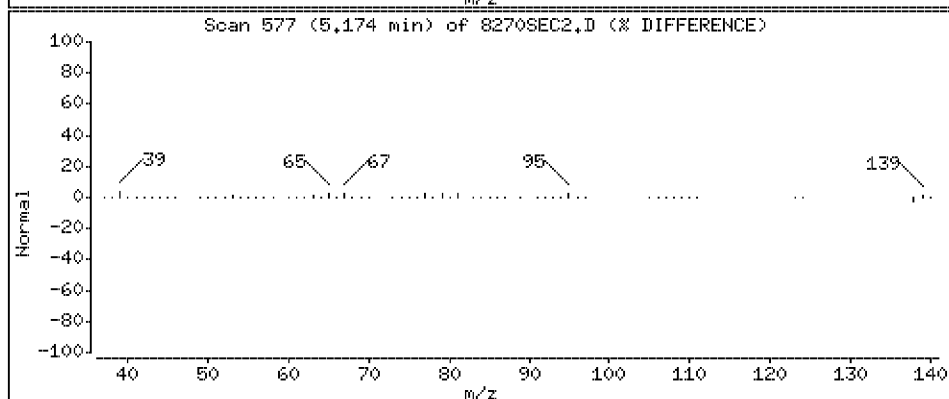
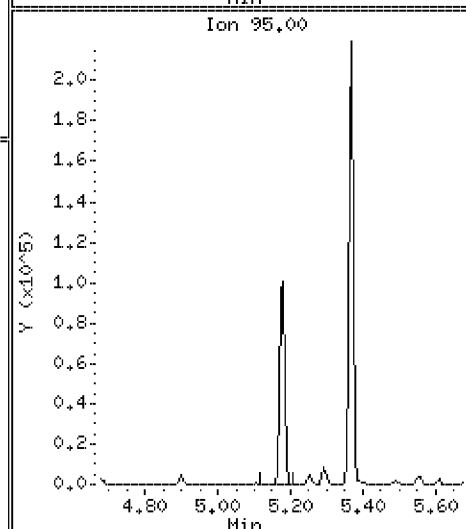
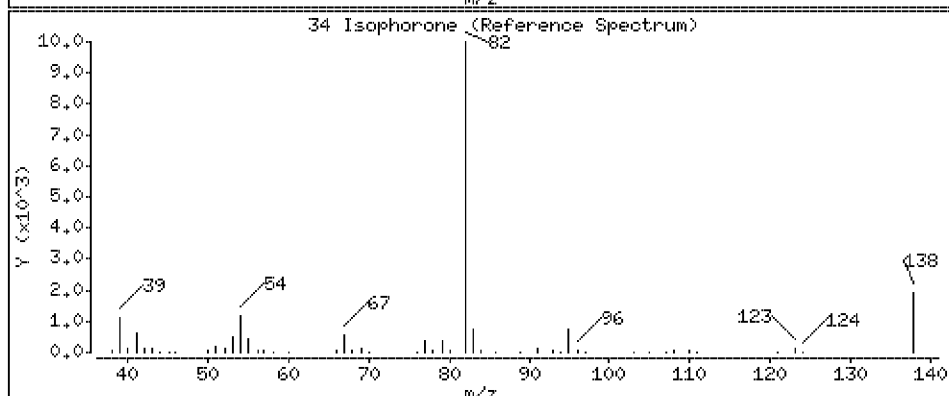
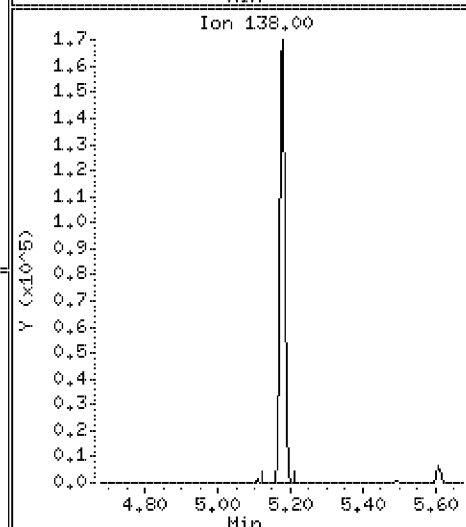
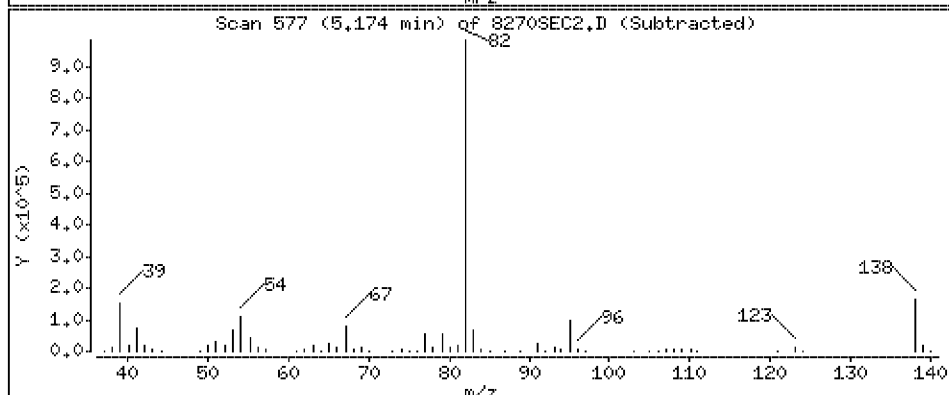
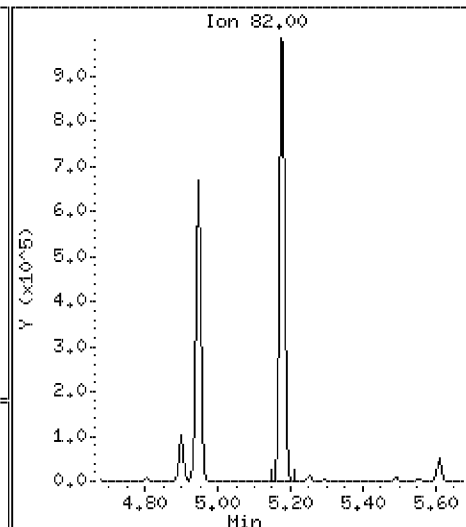
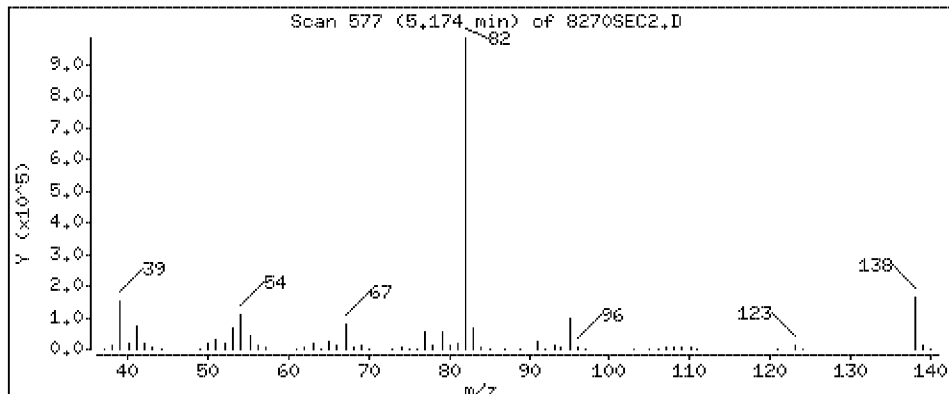
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

34 Isophorone

Concentration: 56.2 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

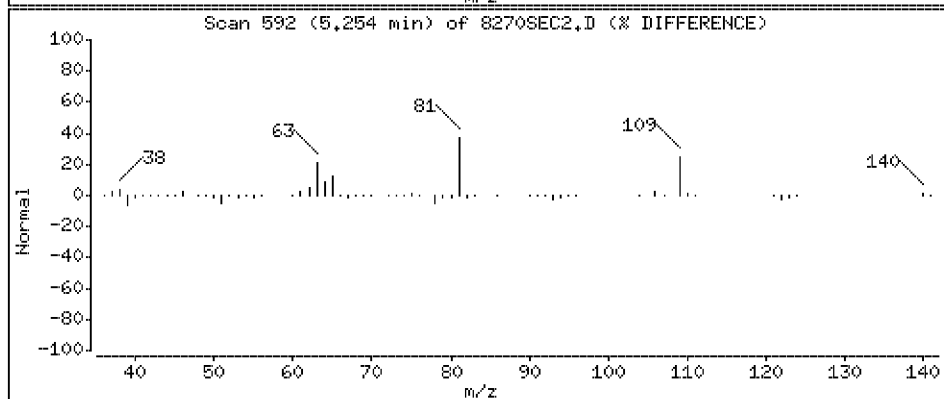
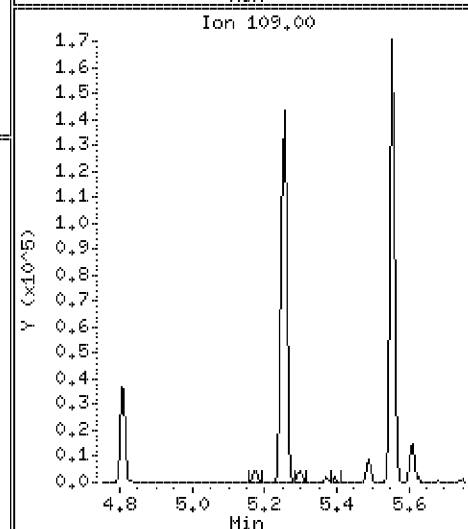
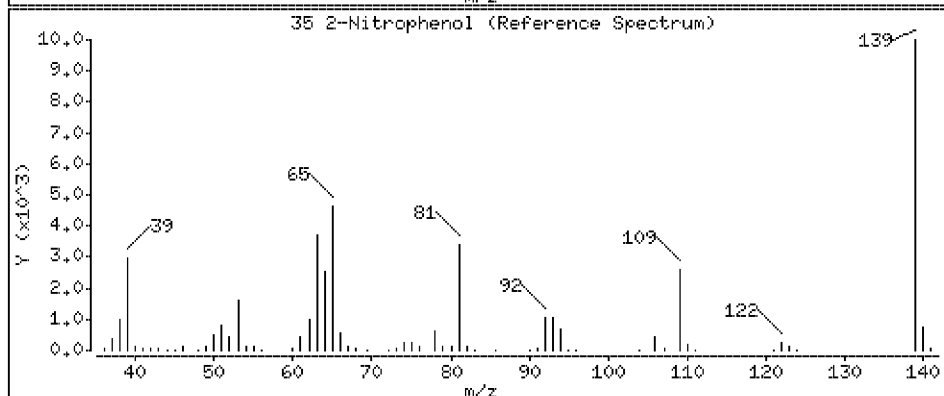
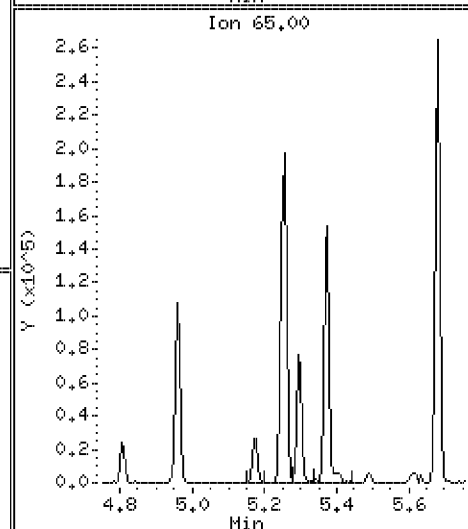
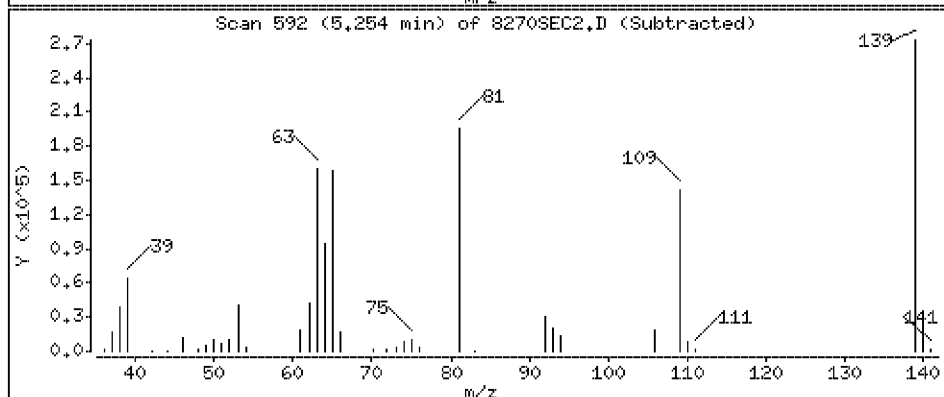
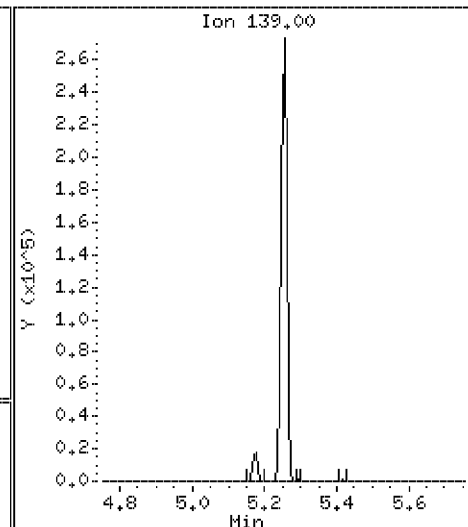
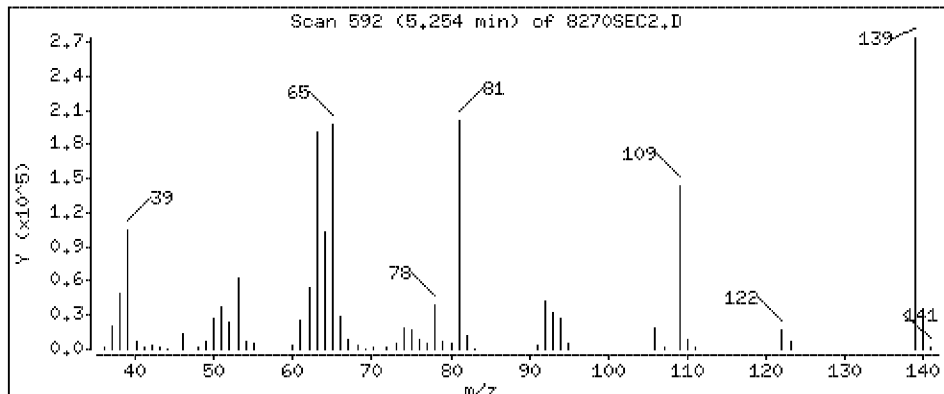
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

35 2-Nitrophenol

Concentration: 44.8 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

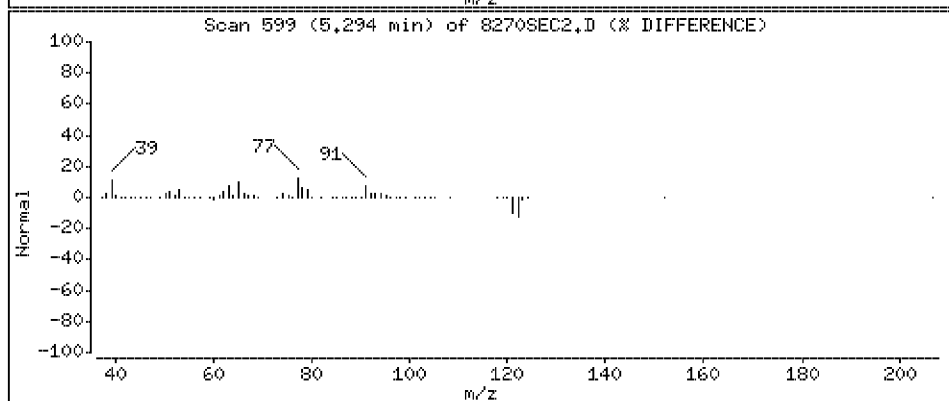
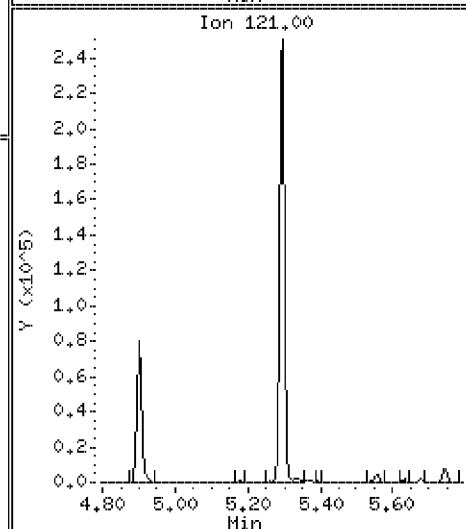
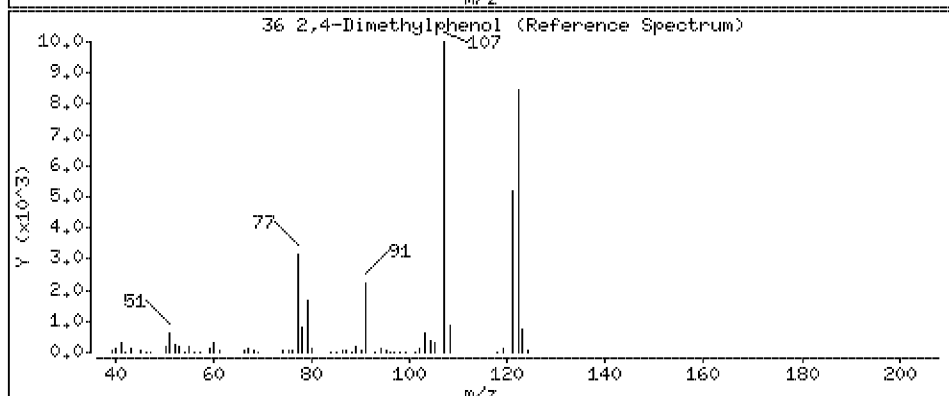
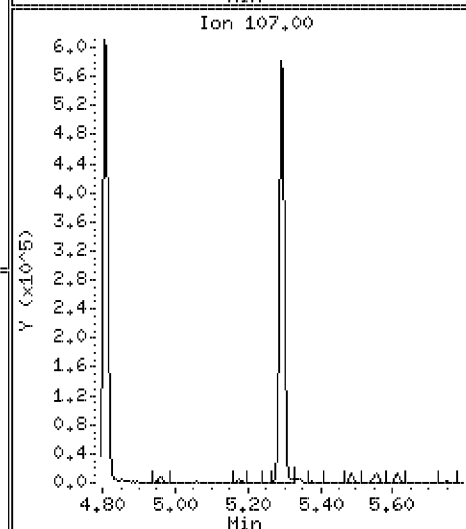
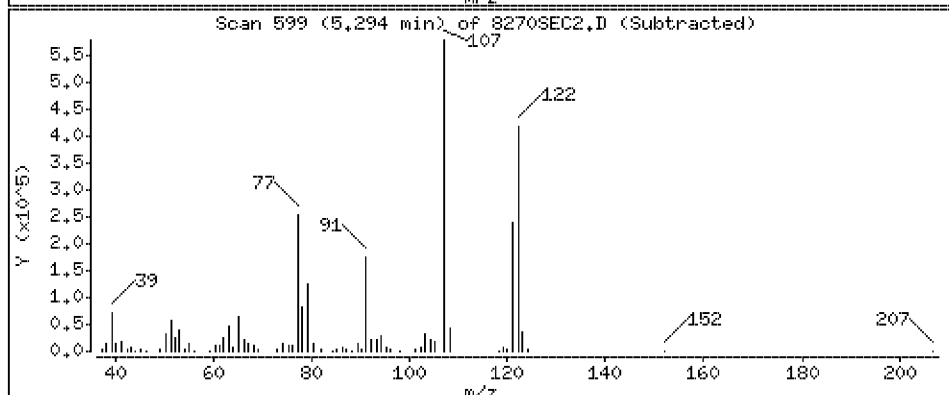
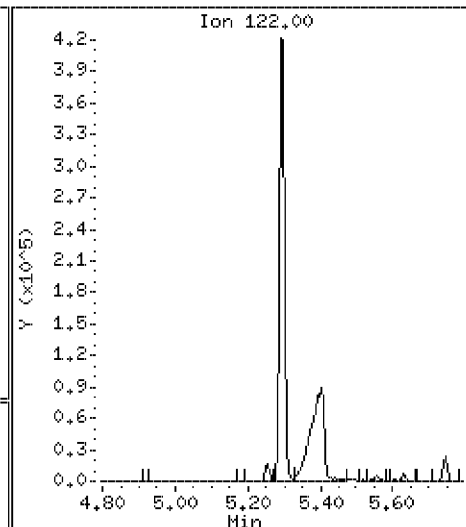
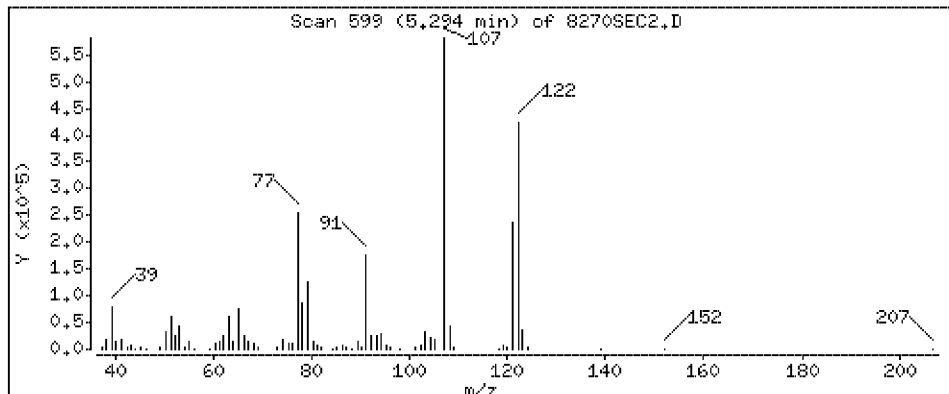
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

36 2,4-Dimethylphenol

Concentration: 48.5 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

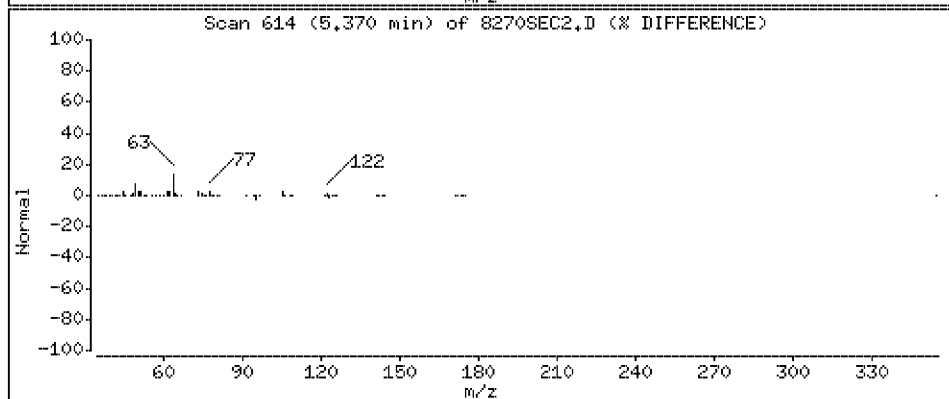
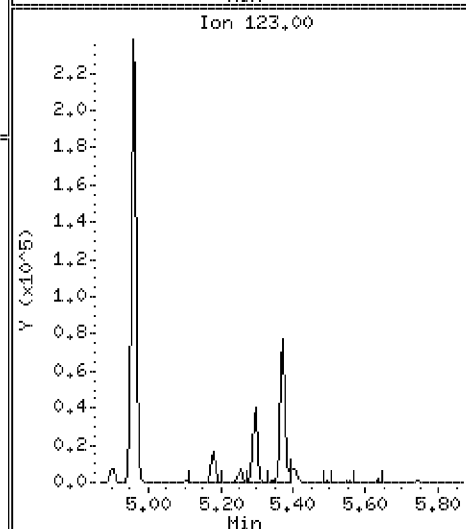
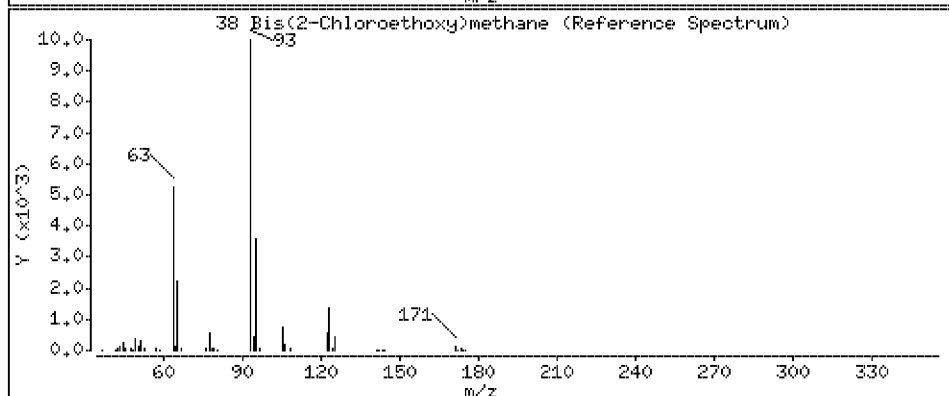
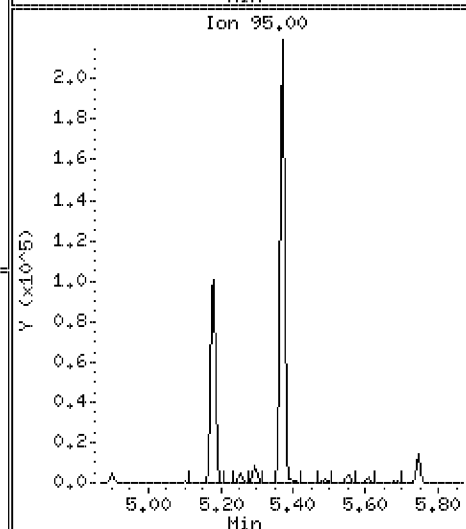
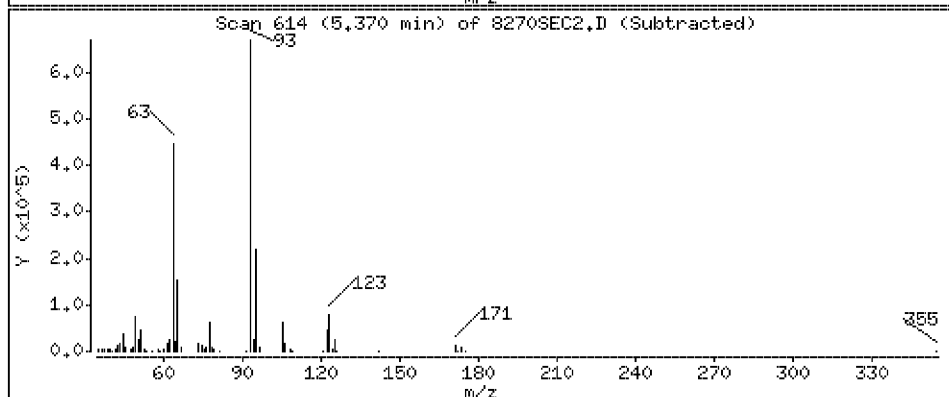
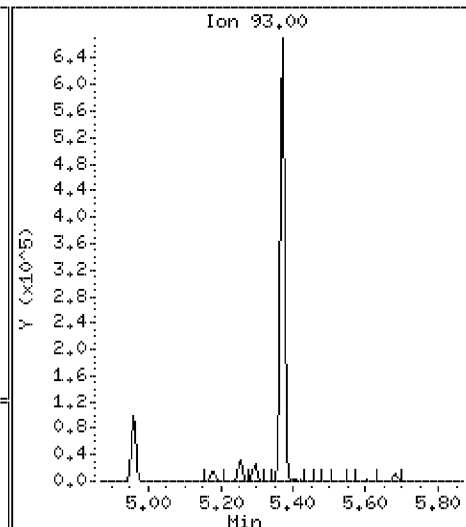
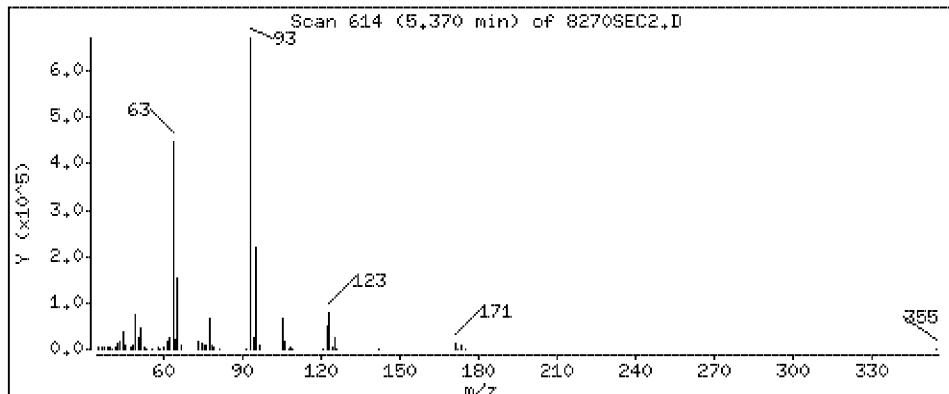
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

38 Bis(2-Chloroethoxy)methane

Concentration: 48.0 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

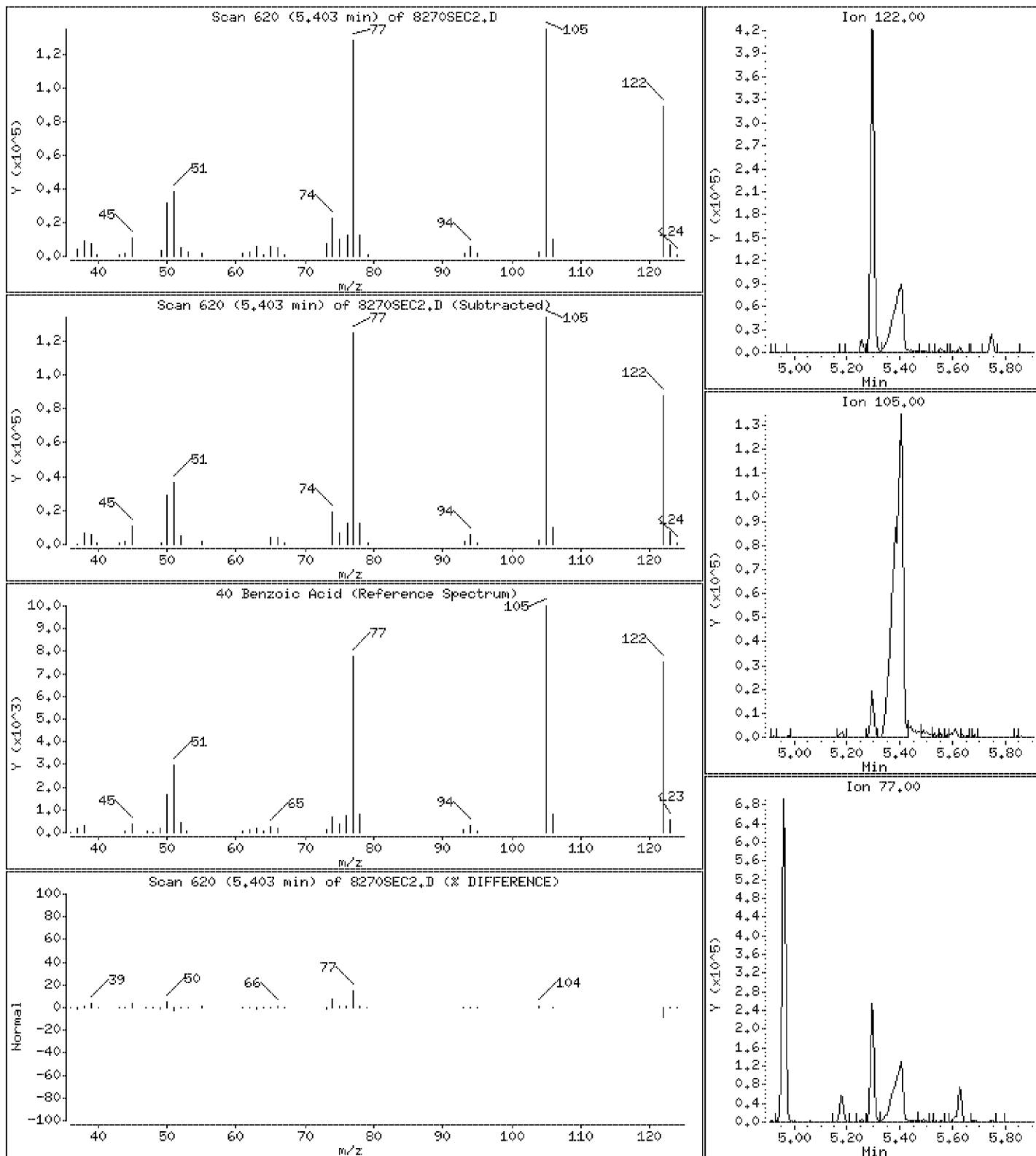
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

40 Benzoic Acid

Concentration: 41.8 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

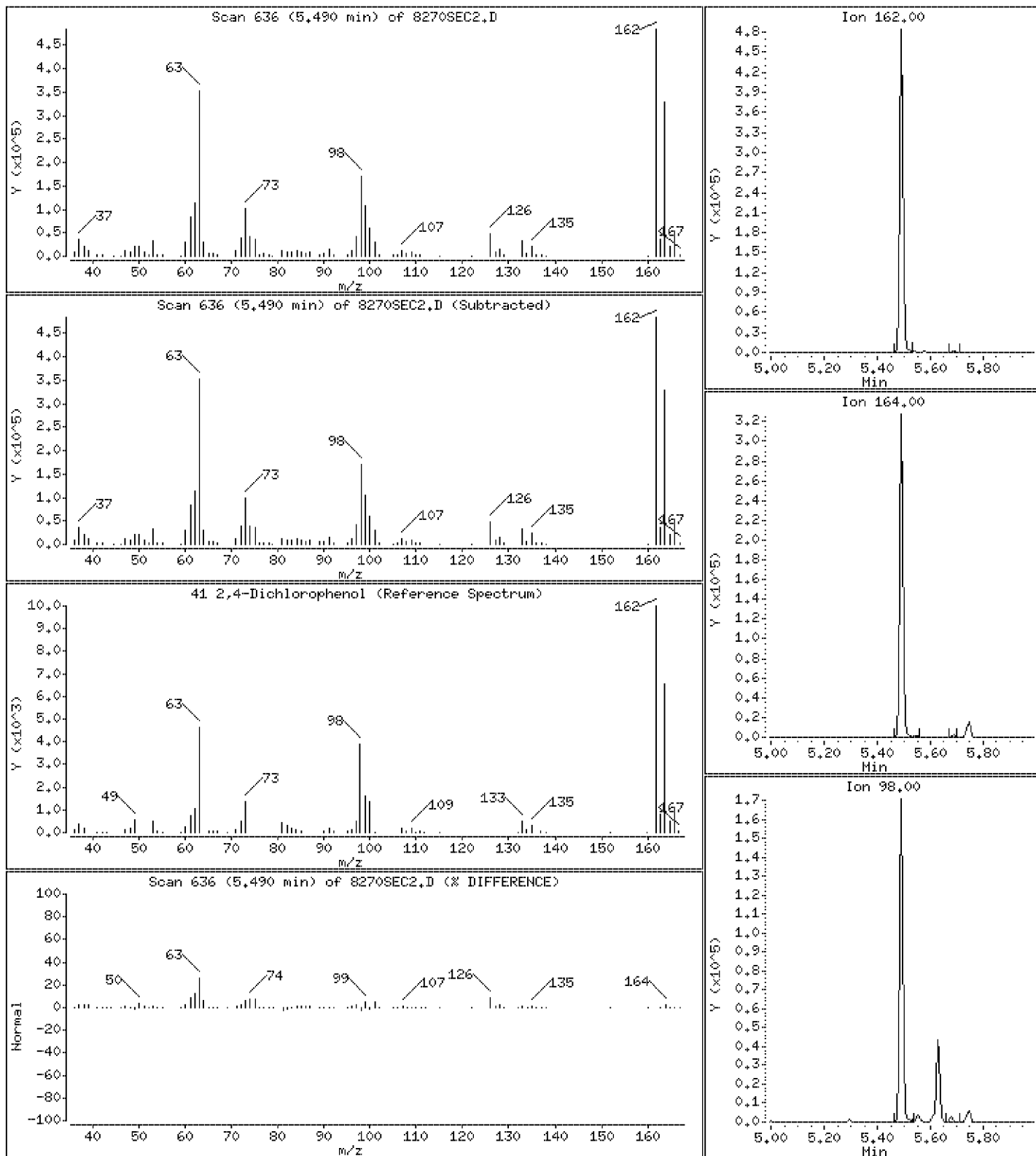
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

41 2,4-Dichlorophenol

Concentration: 44.2 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

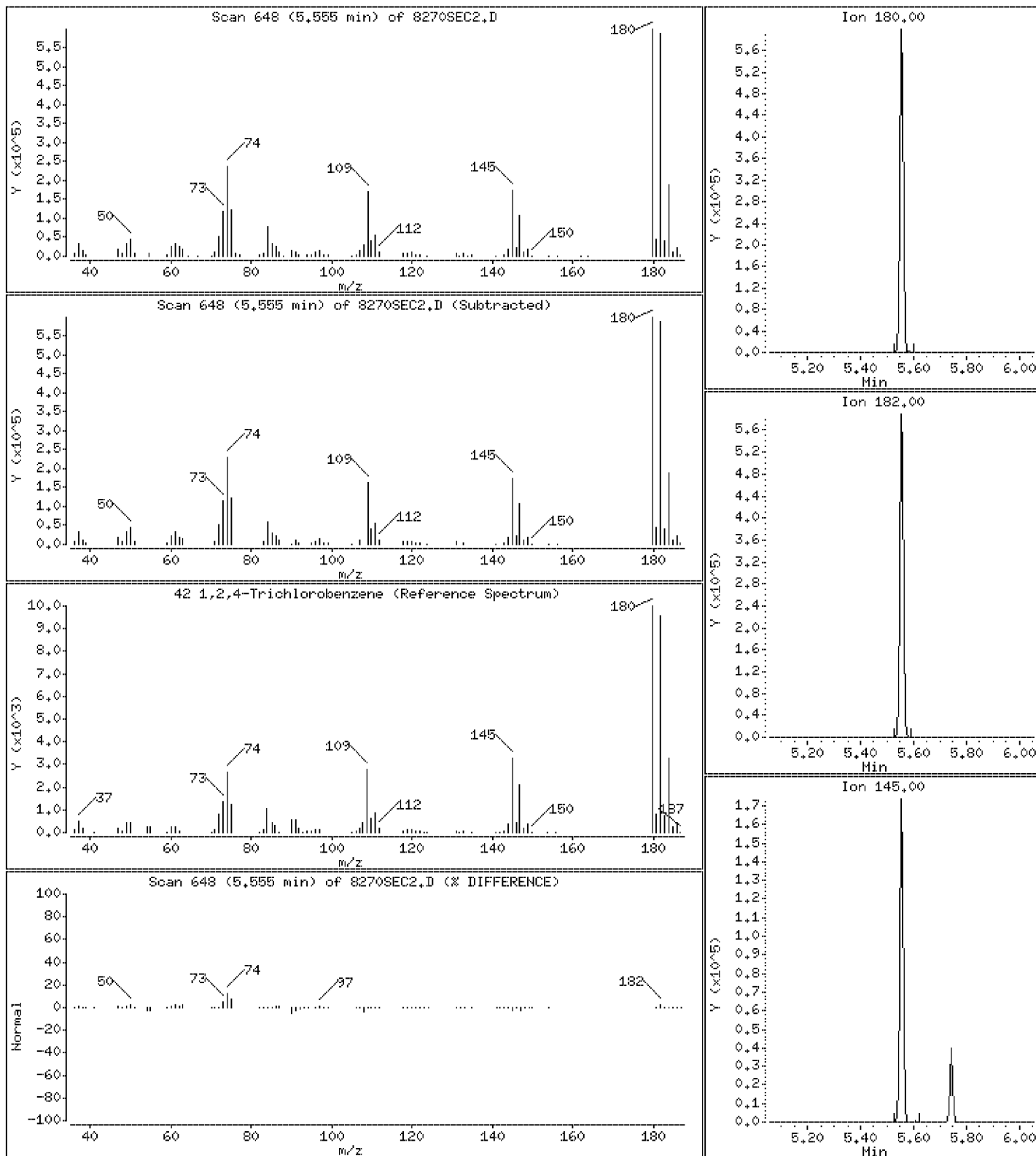
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

42 1,2,4-Trichlorobenzene

Concentration: 44.4 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

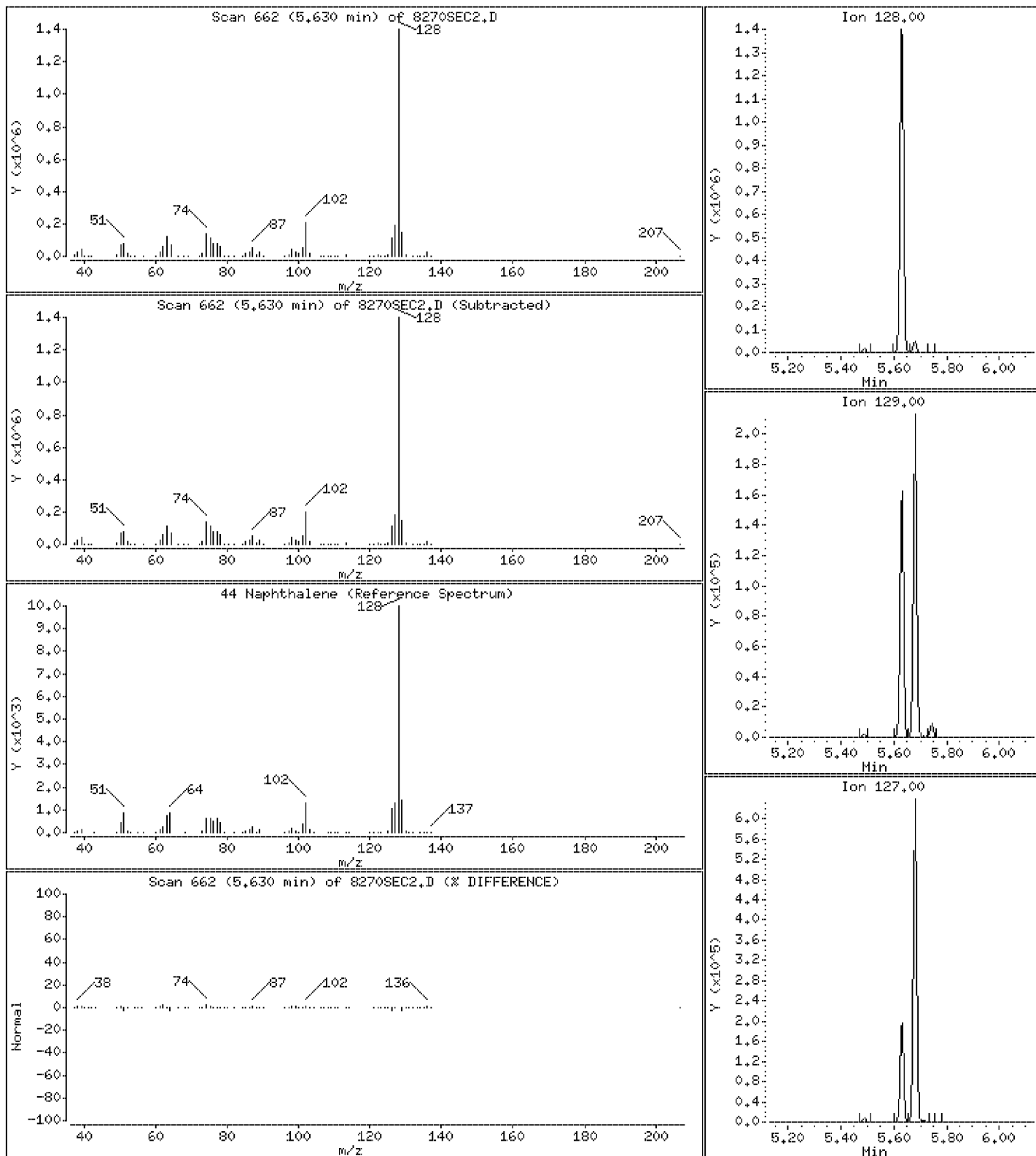
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

44 Naphthalene

Concentration: 47.6 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

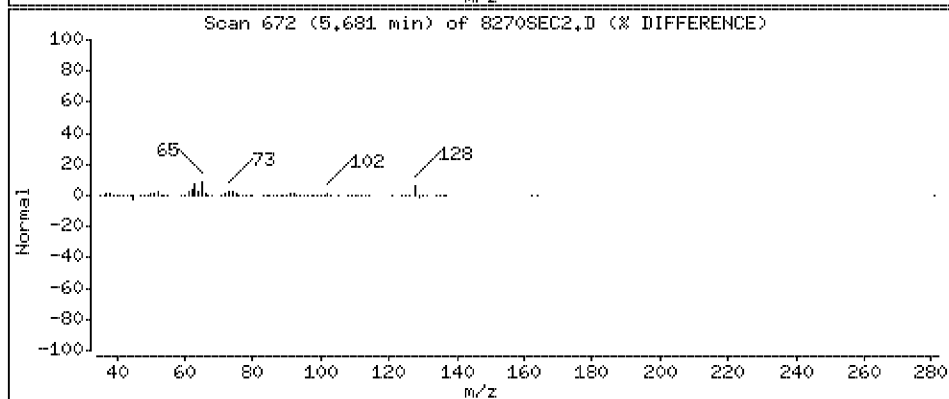
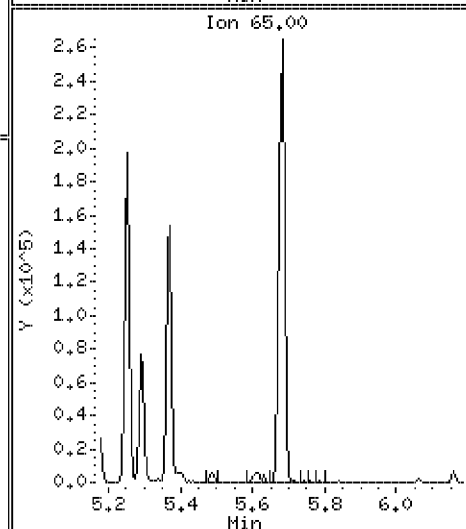
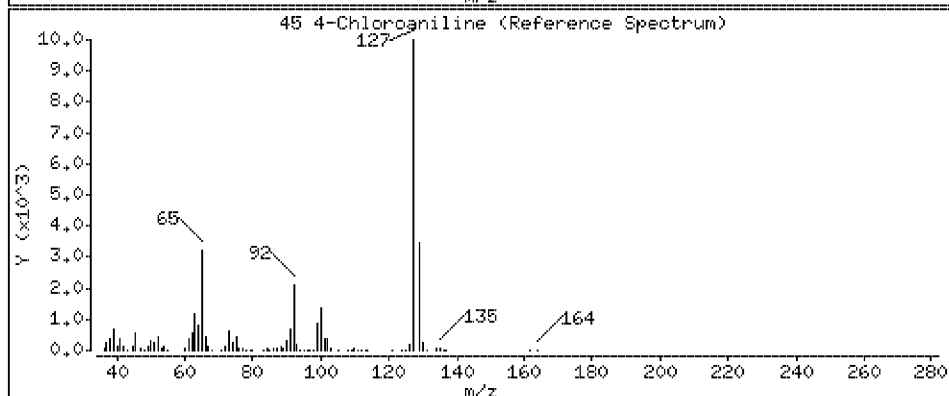
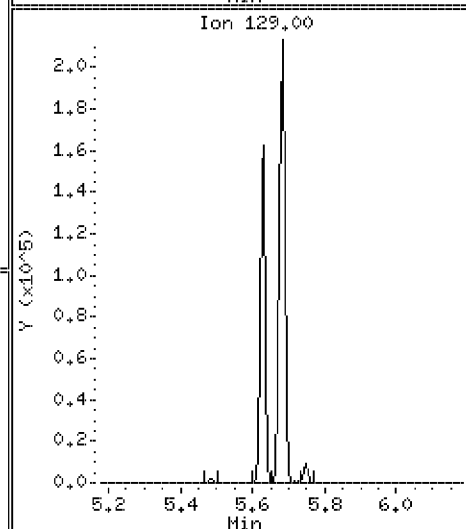
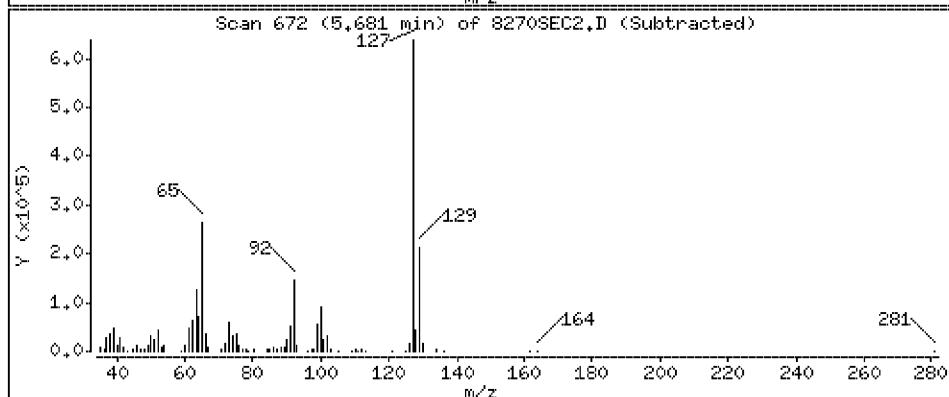
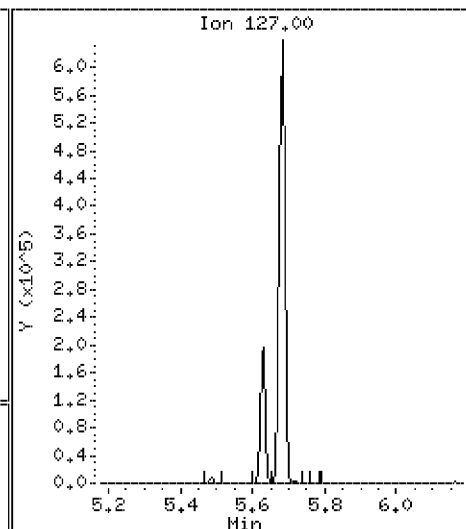
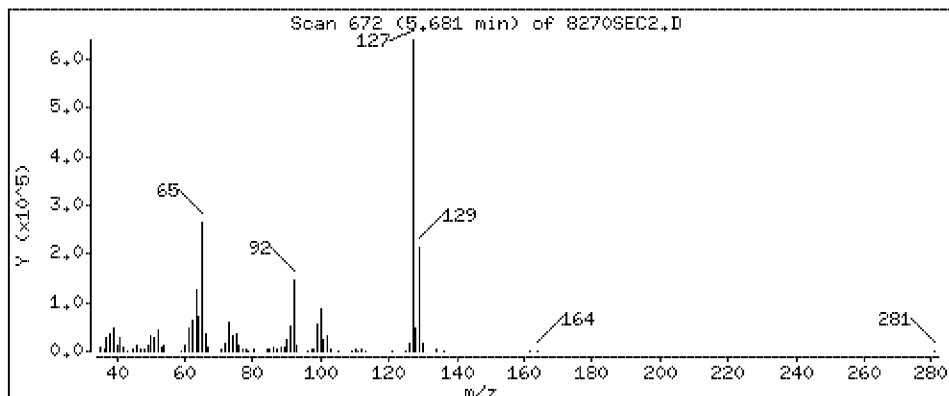
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

45 4-Chloroaniline

Concentration: 47.5 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

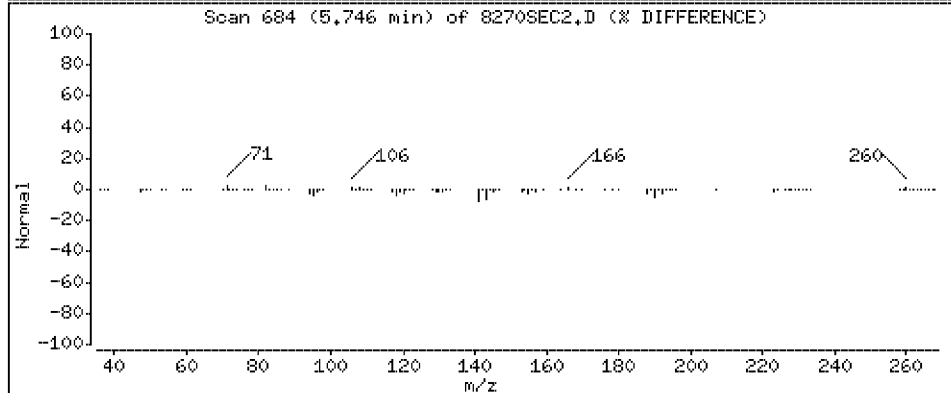
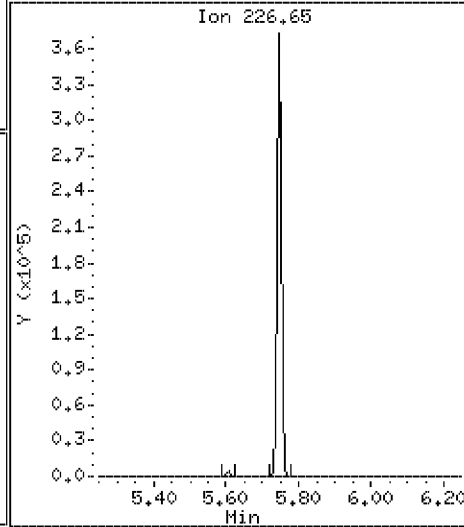
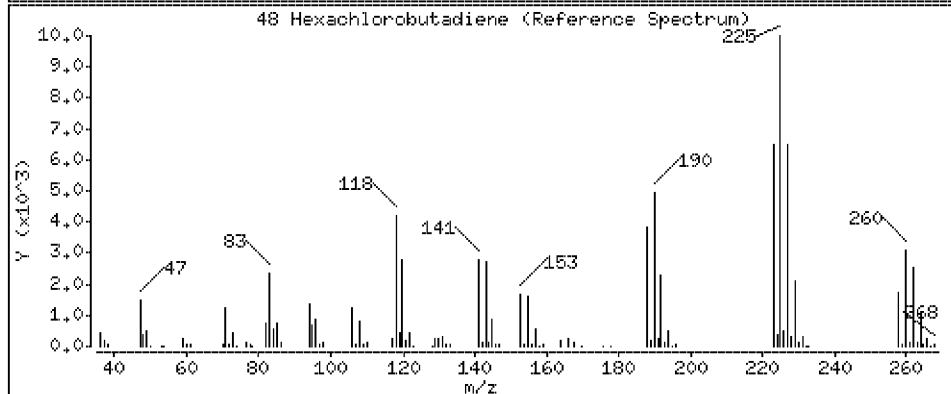
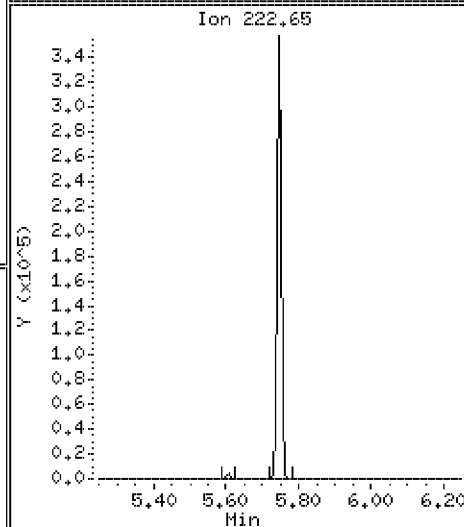
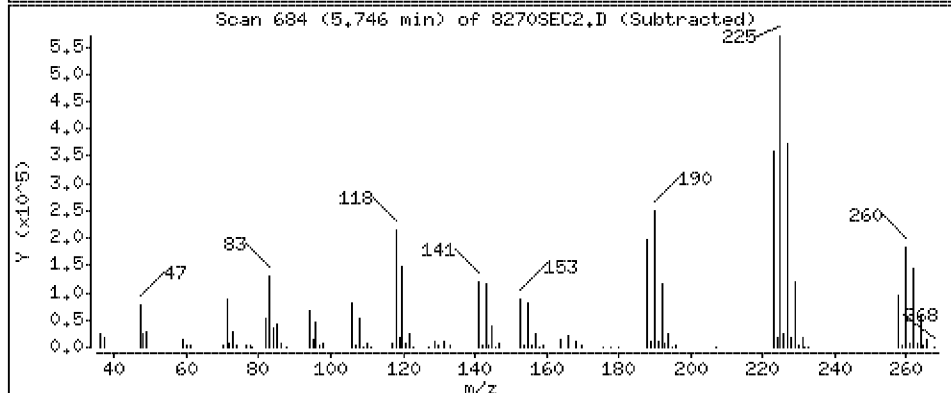
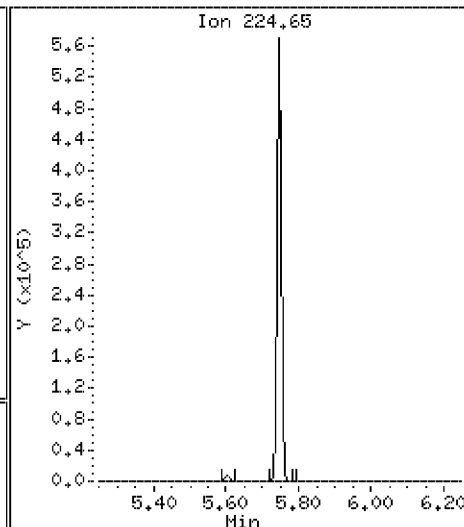
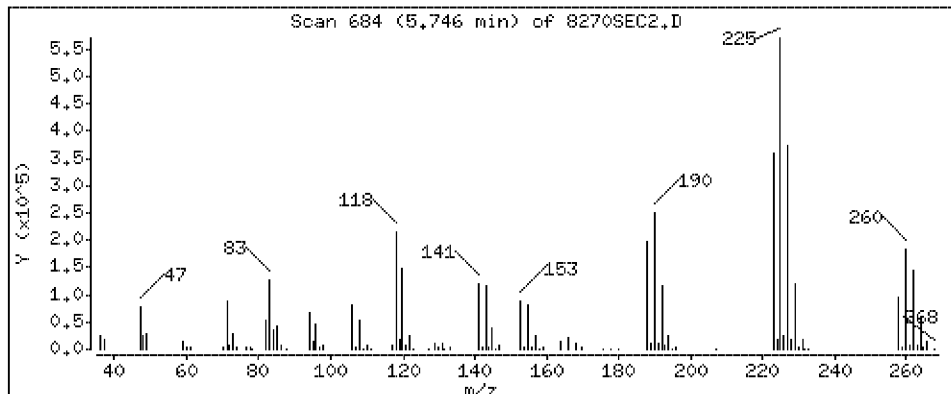
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

48 Hexachlorobutadiene

Concentration: 49.3 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

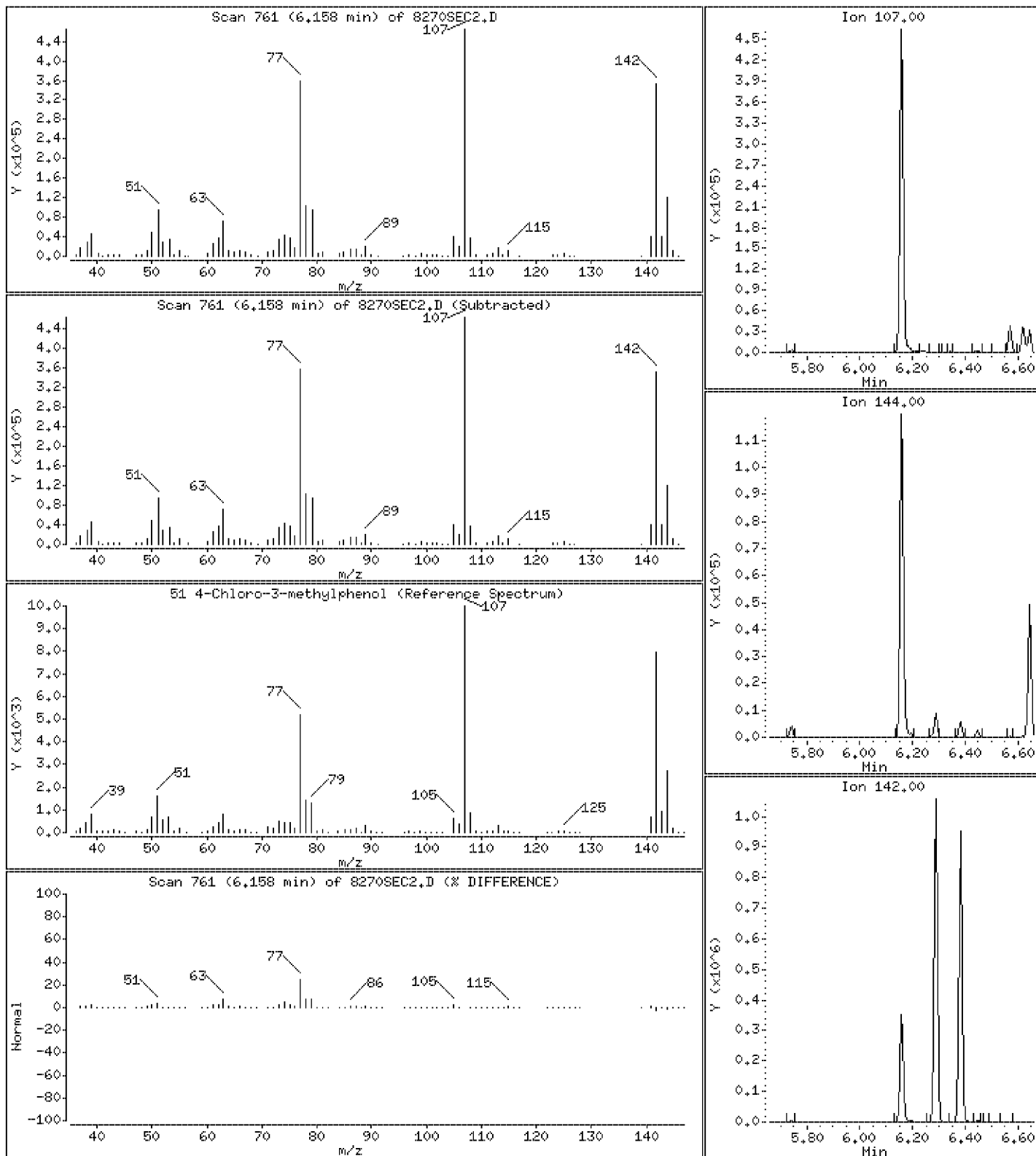
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

51 4-Chloro-3-methylphenol

Concentration: 44.8 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

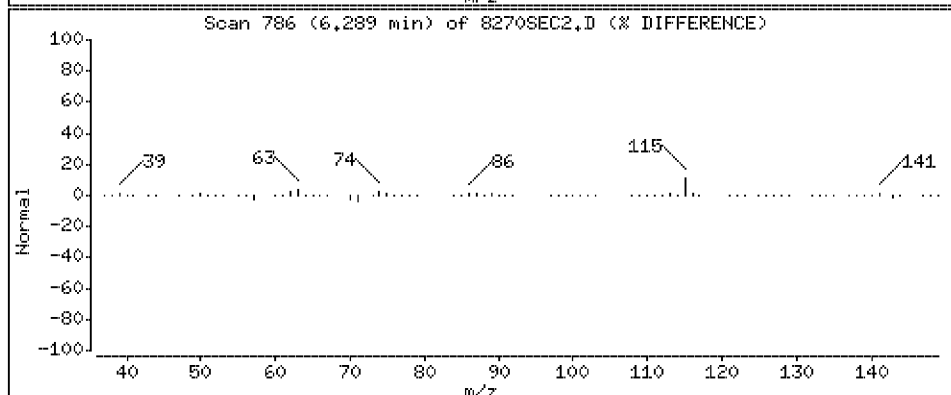
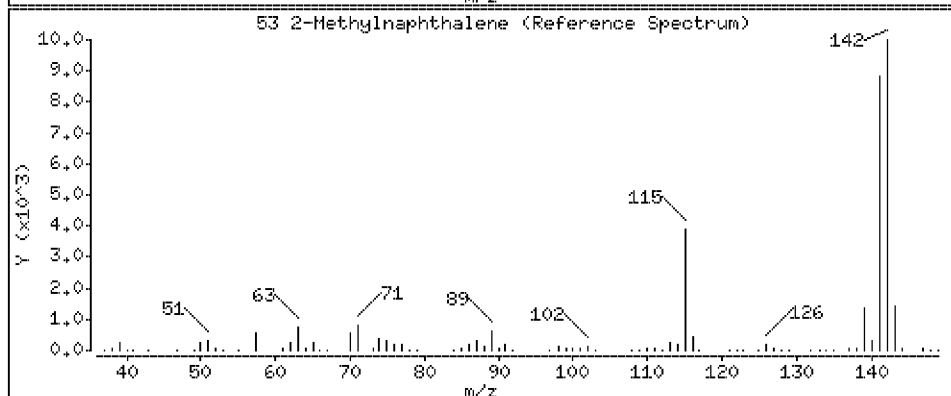
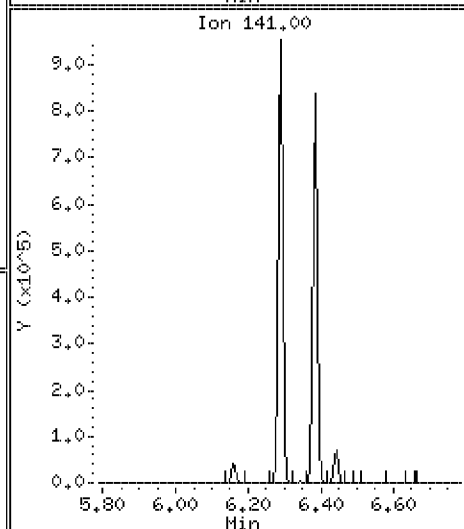
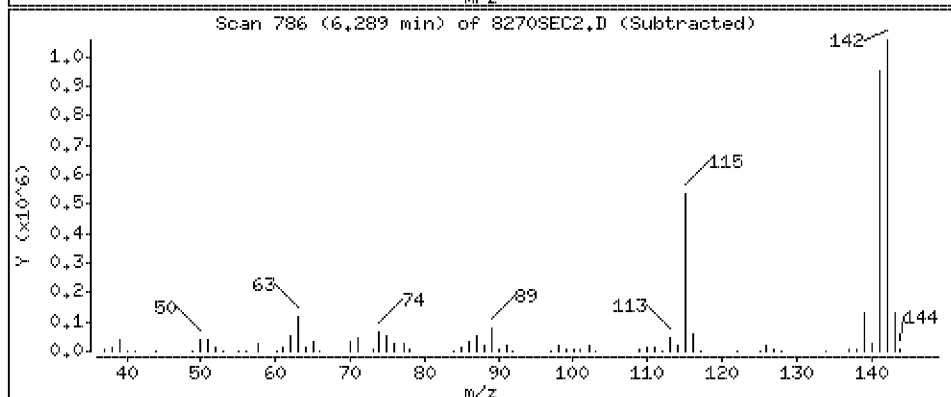
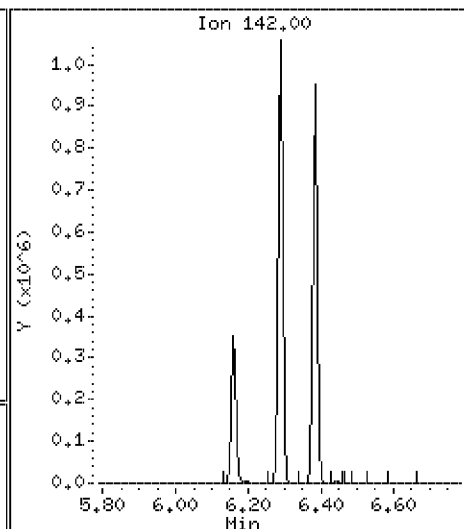
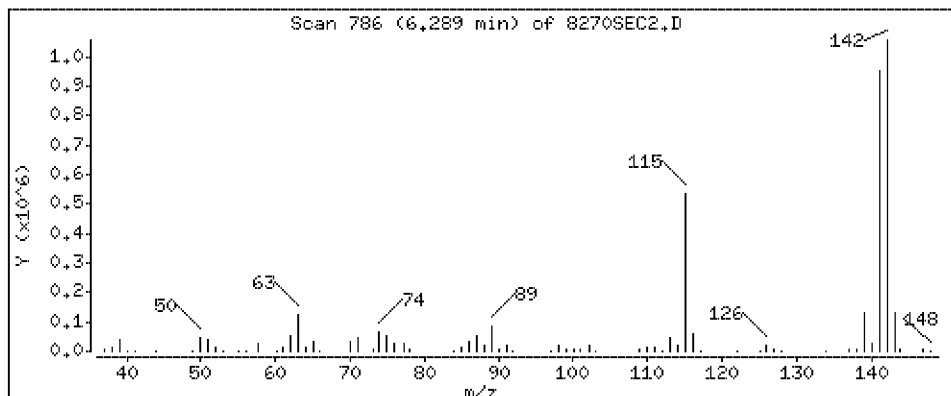
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

53 2-Methylnaphthalene

Concentration: 45.5 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

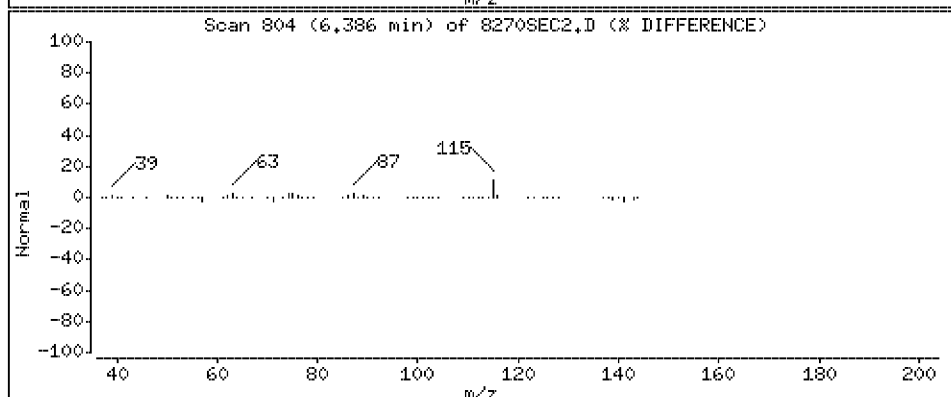
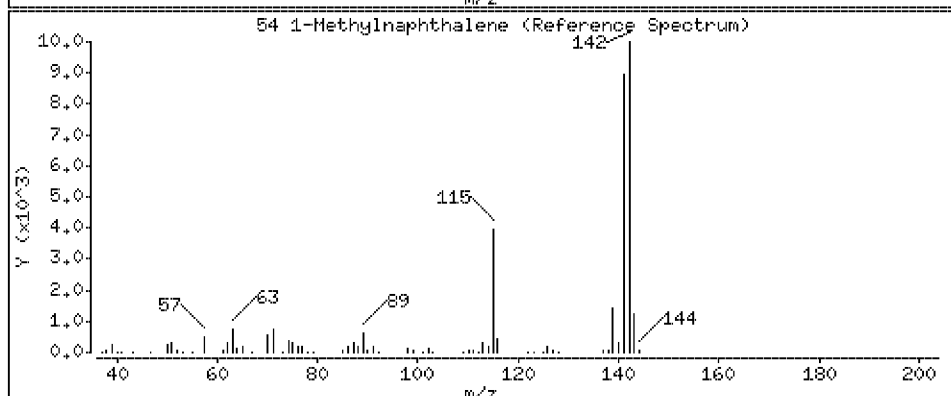
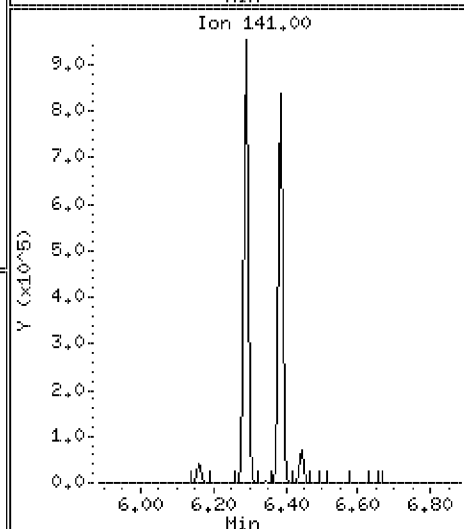
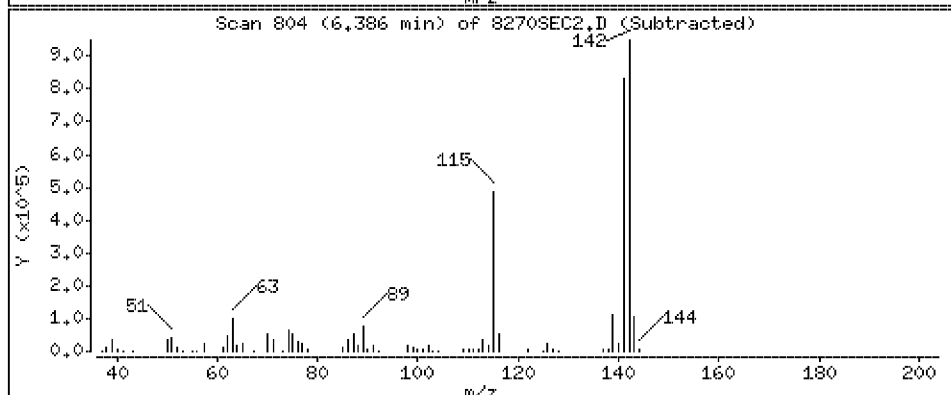
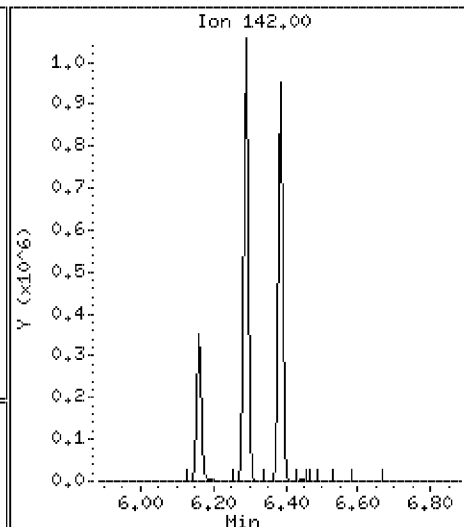
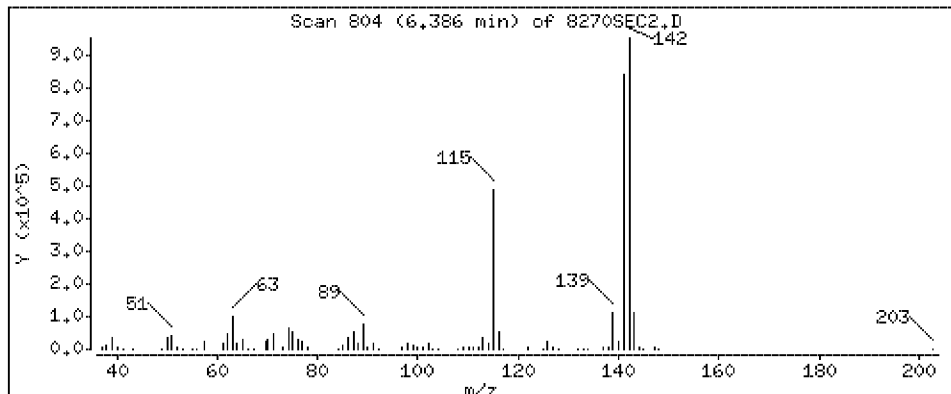
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

54 1-Methylnaphthalene

Concentration: 43.7 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

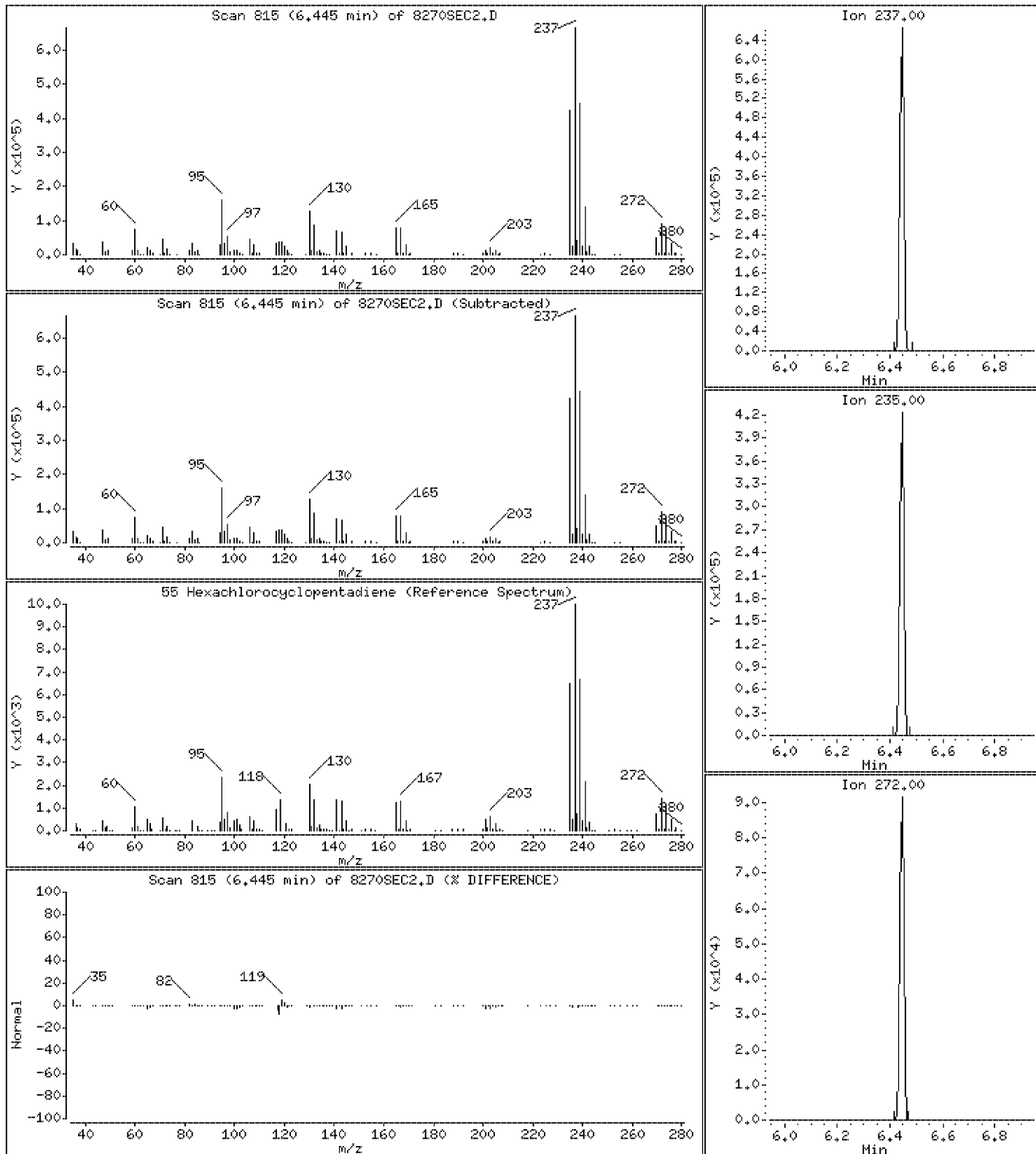
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

55 Hexachlorocyclopentadiene

Concentration: 47.4 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

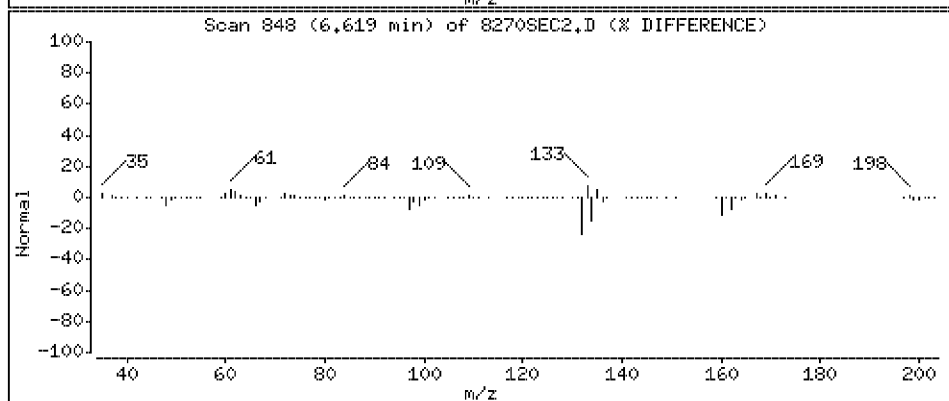
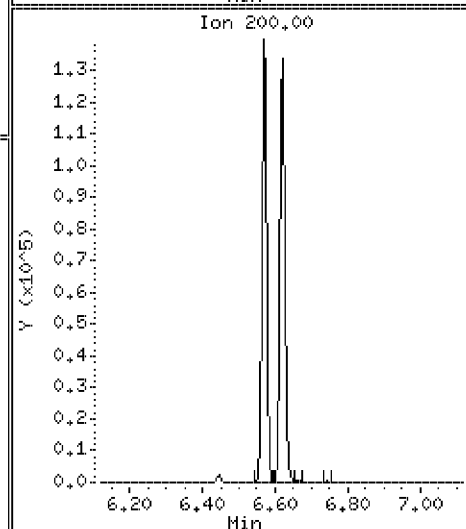
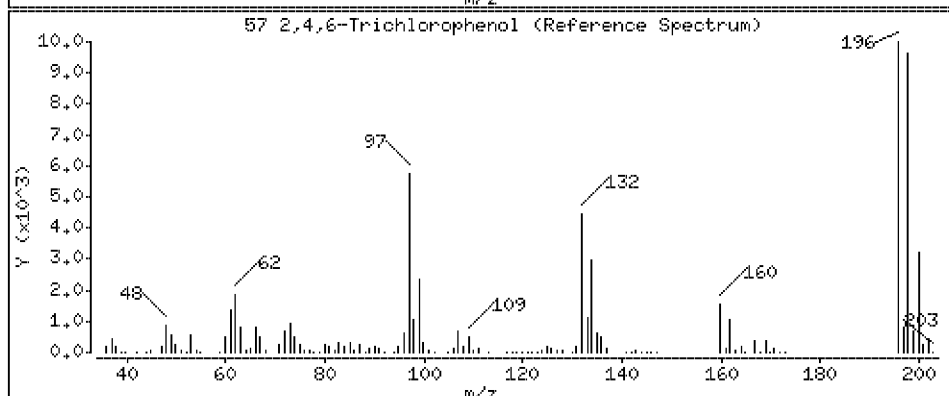
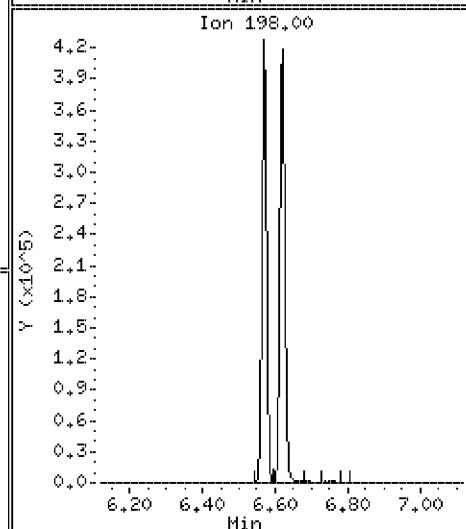
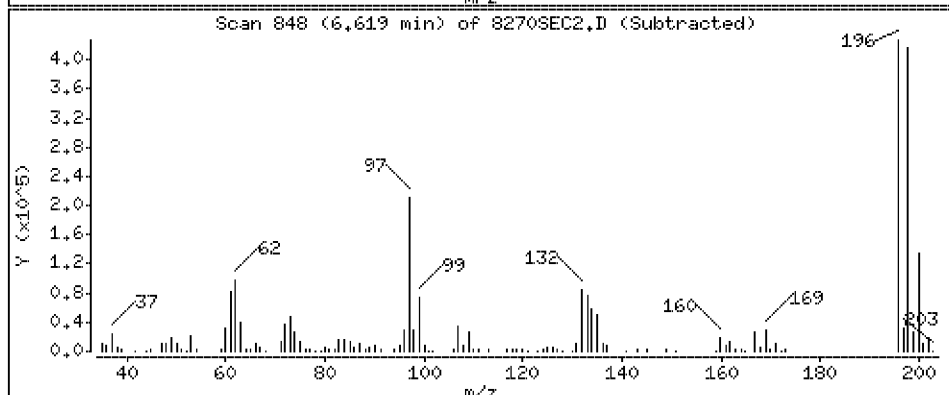
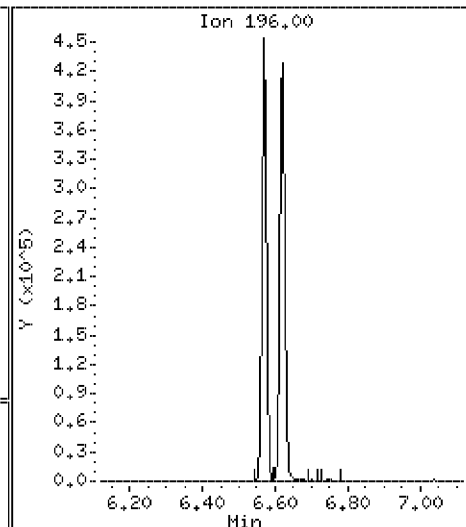
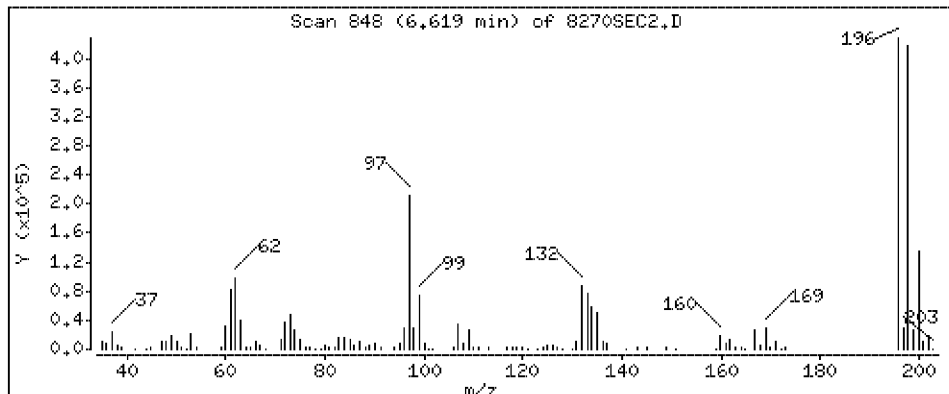
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

57 2,4,6-Trichlorophenol

Concentration: 46.5 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

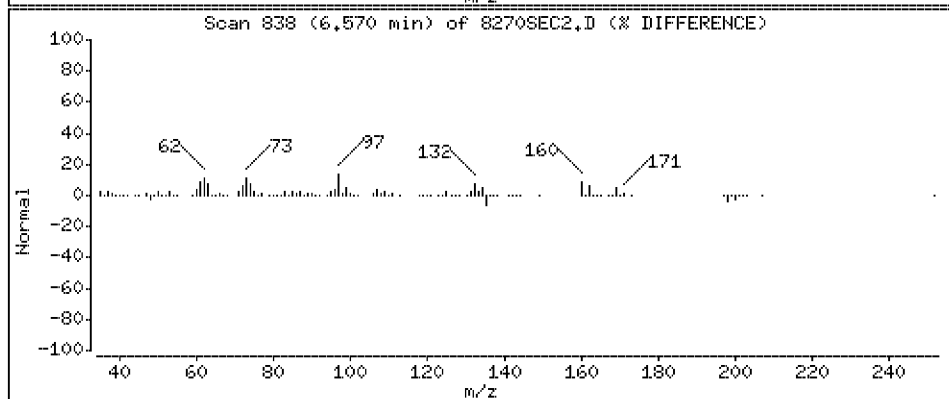
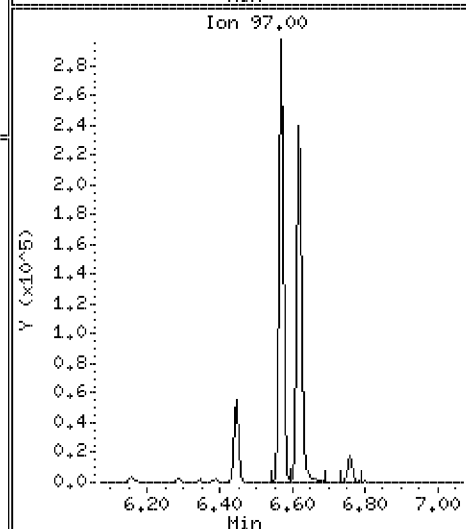
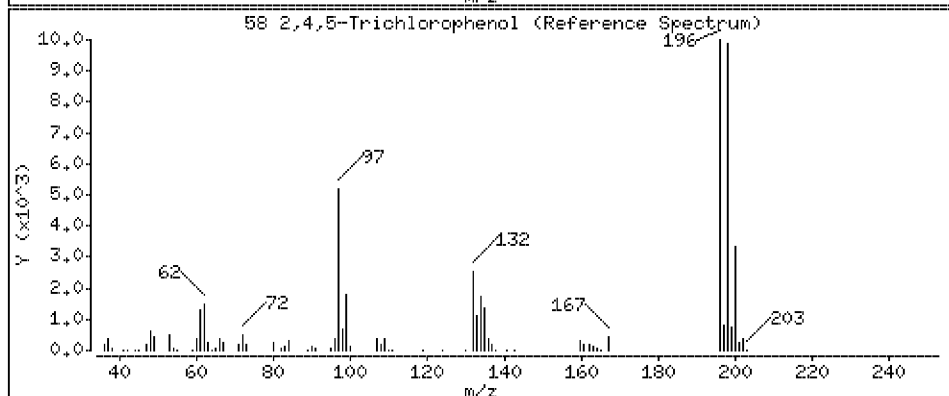
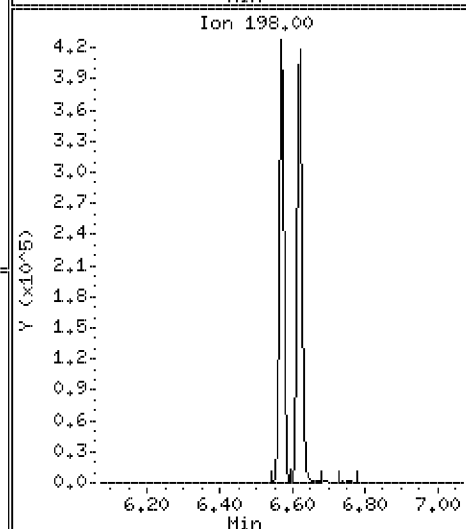
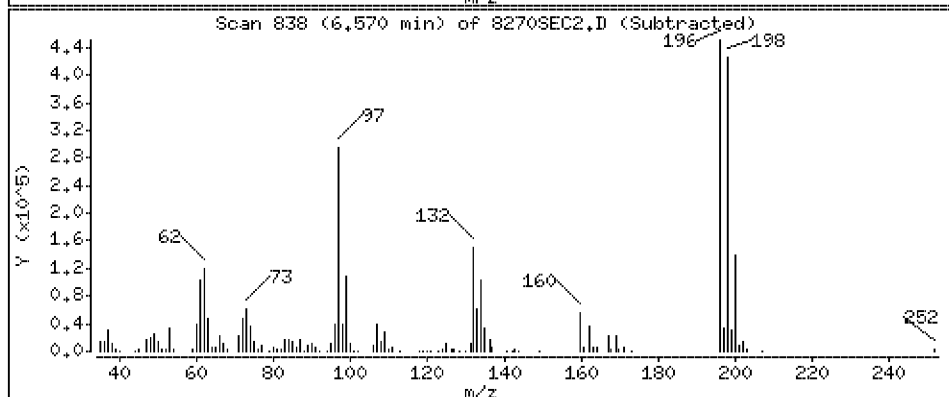
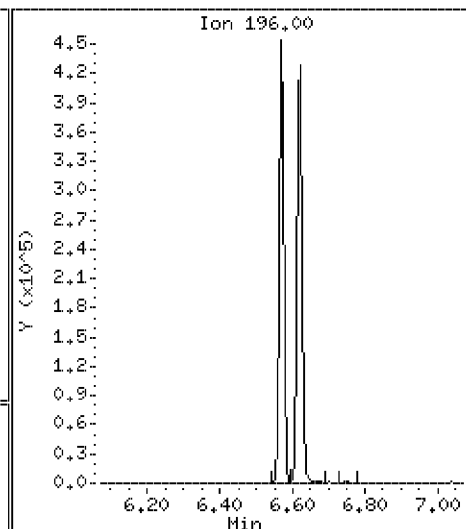
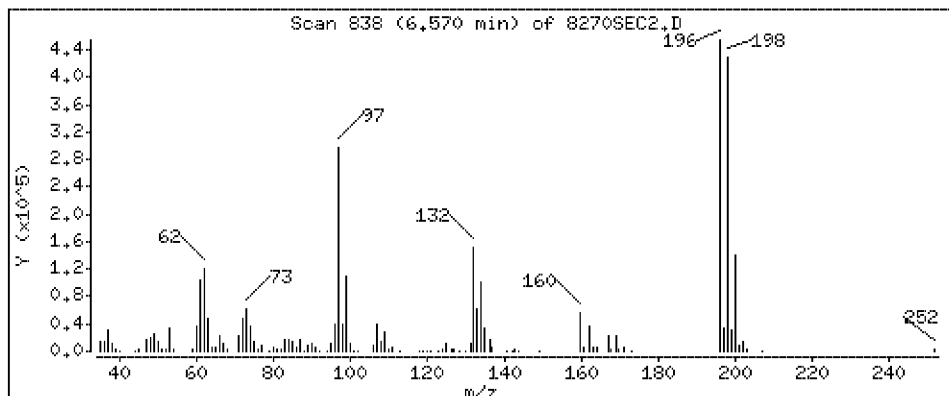
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

58 2,4,5-Trichlorophenol

Concentration: 46.9 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

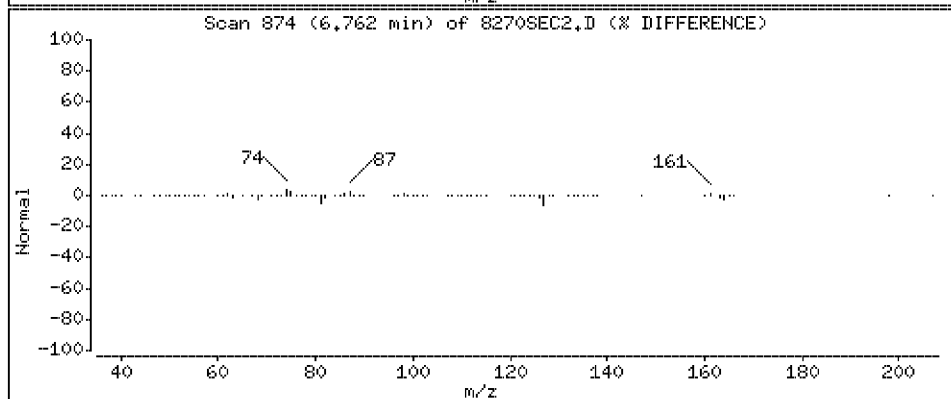
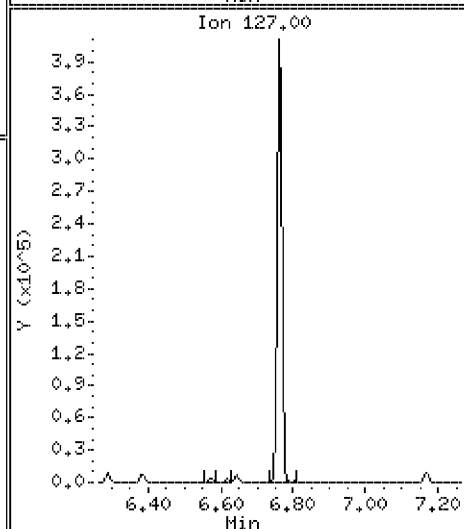
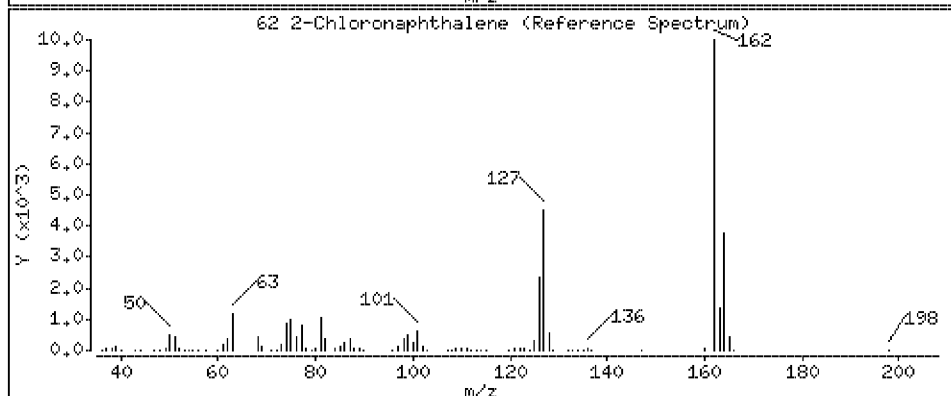
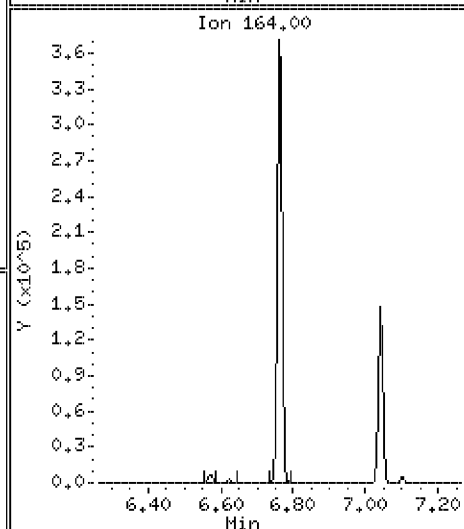
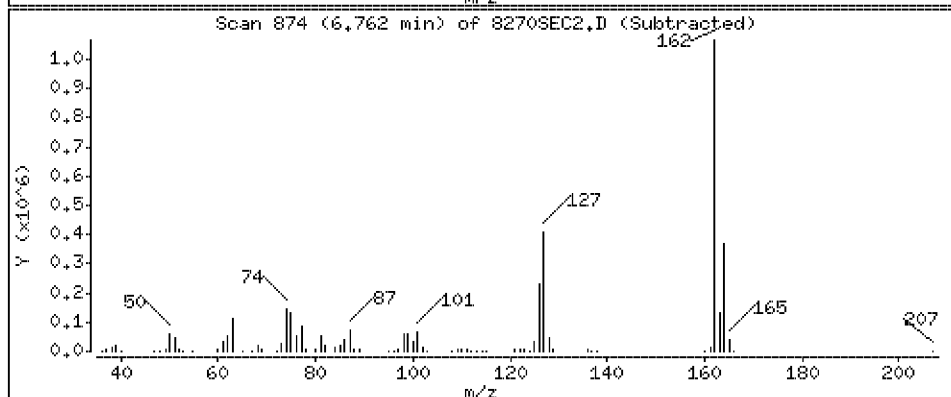
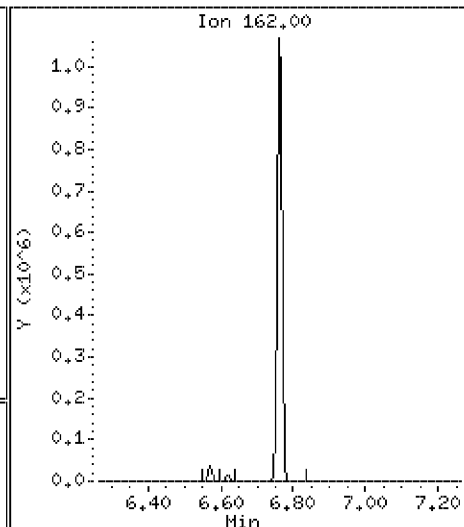
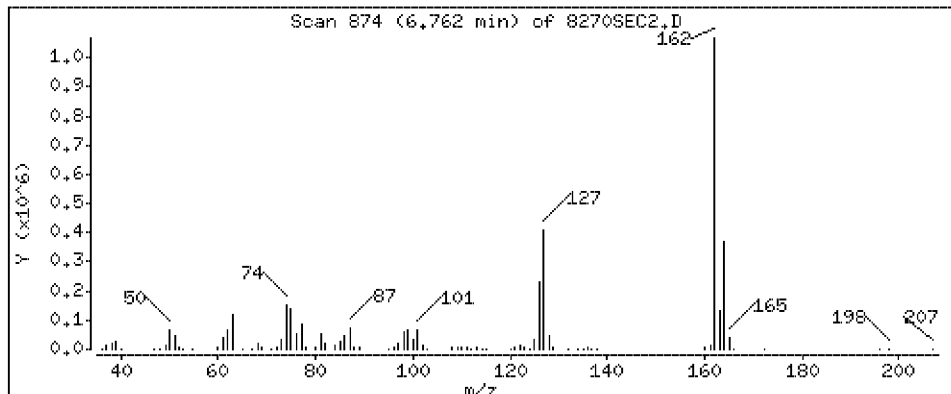
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

62 2-Chloronaphthalene

Concentration: 46.4 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

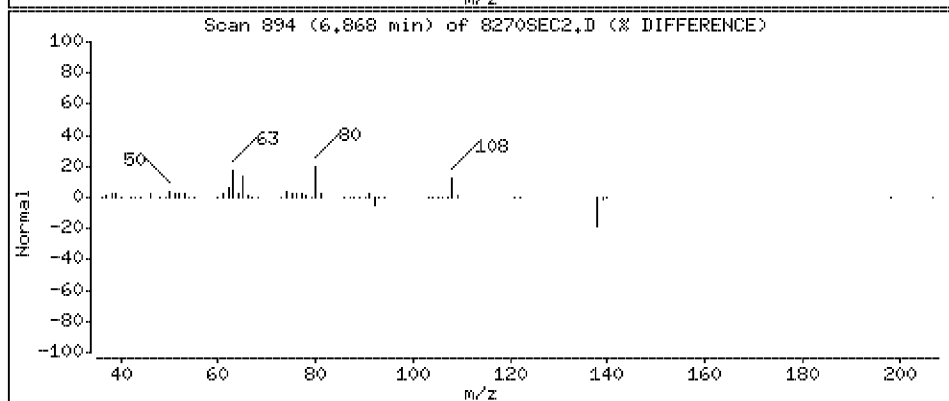
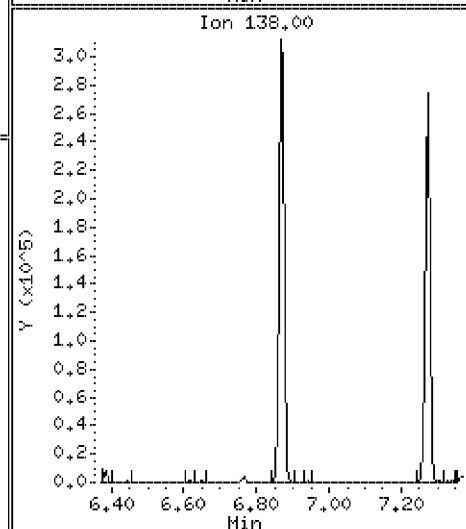
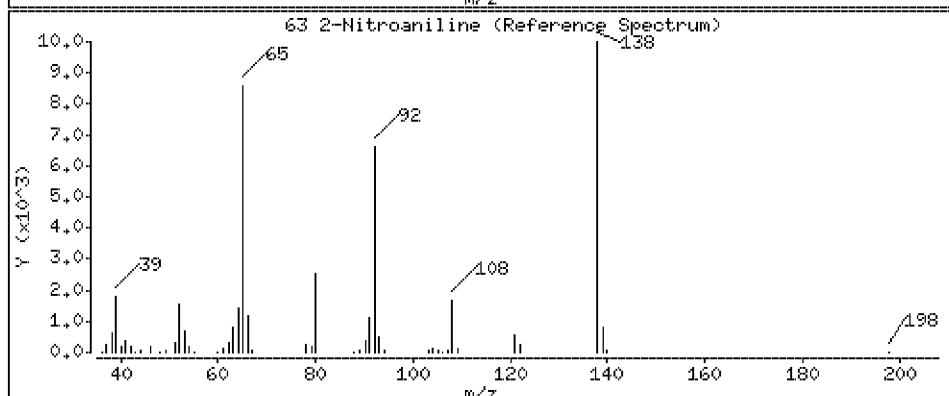
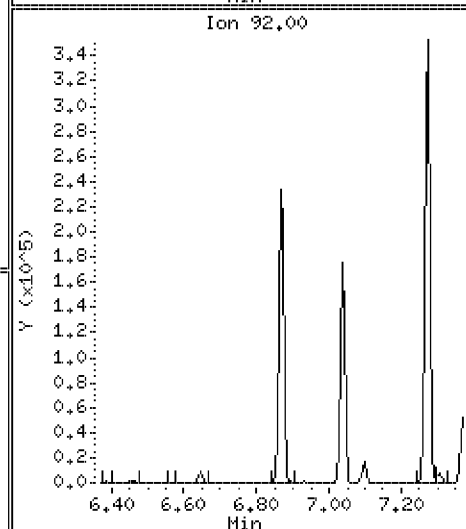
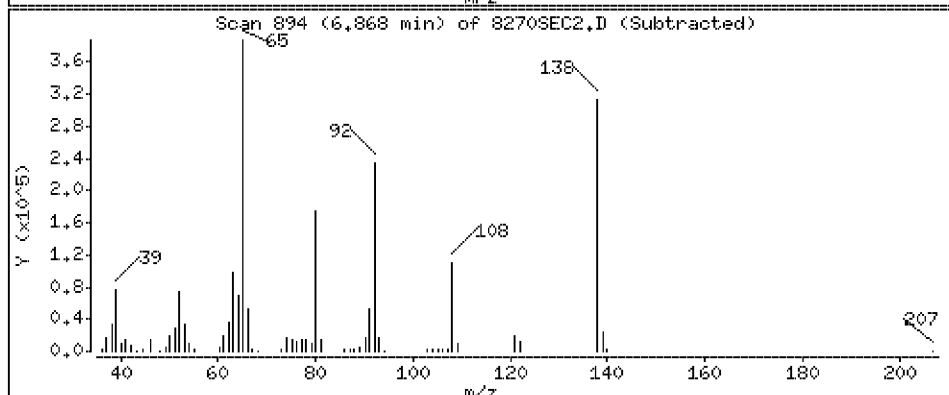
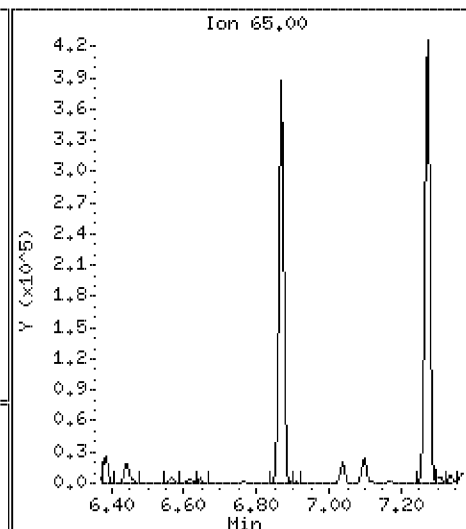
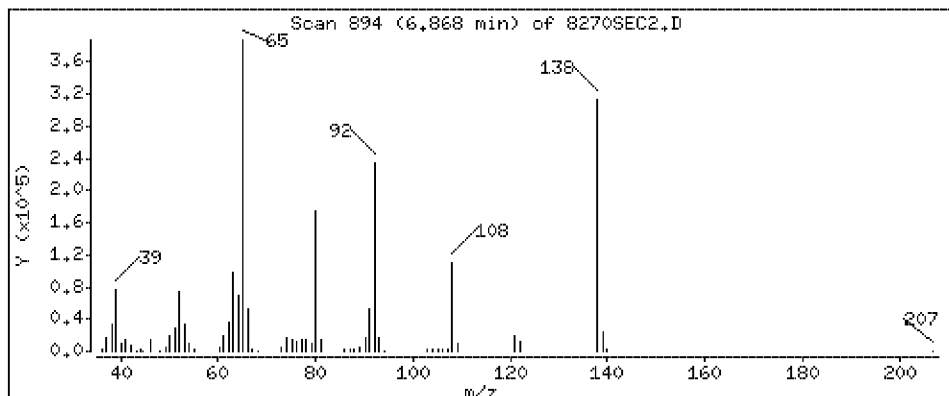
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

63 2-Nitroaniline

Concentration: 48.7 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

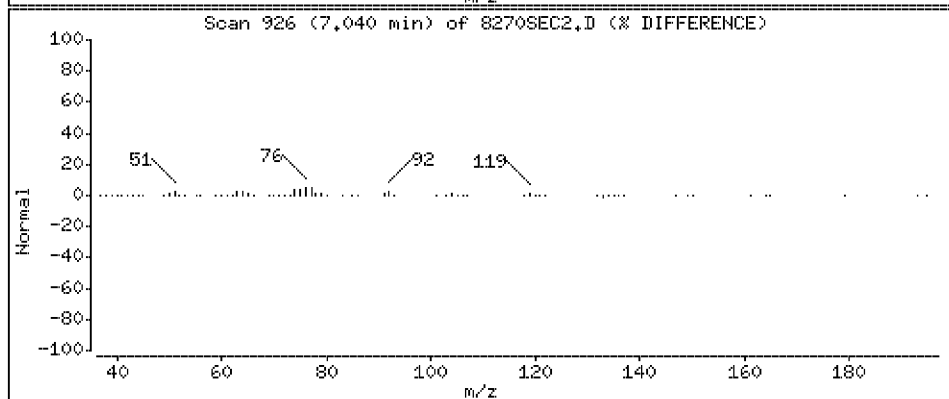
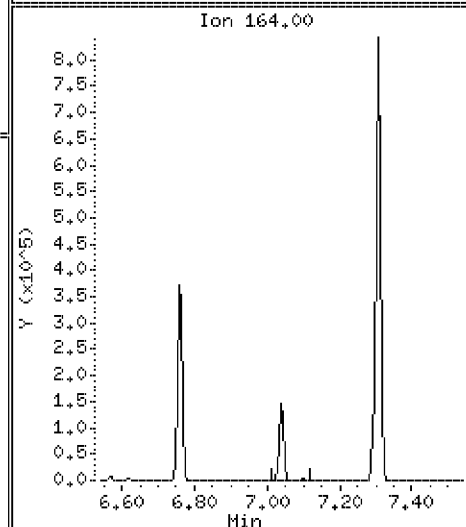
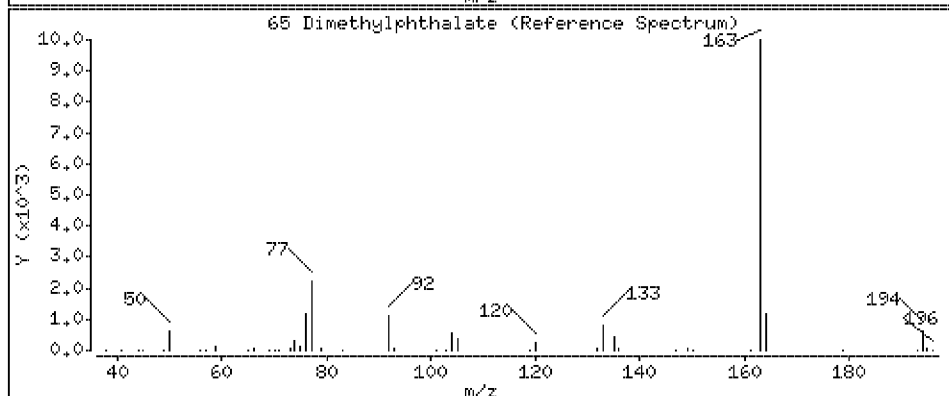
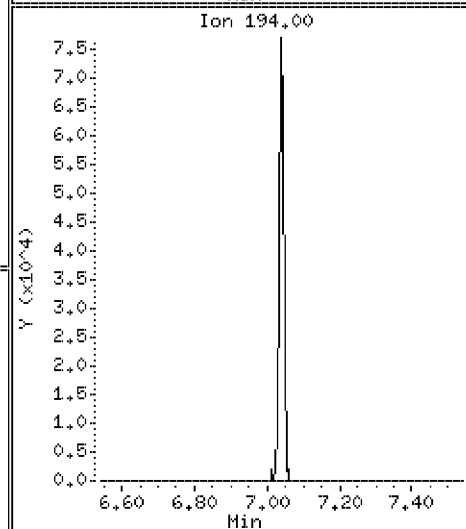
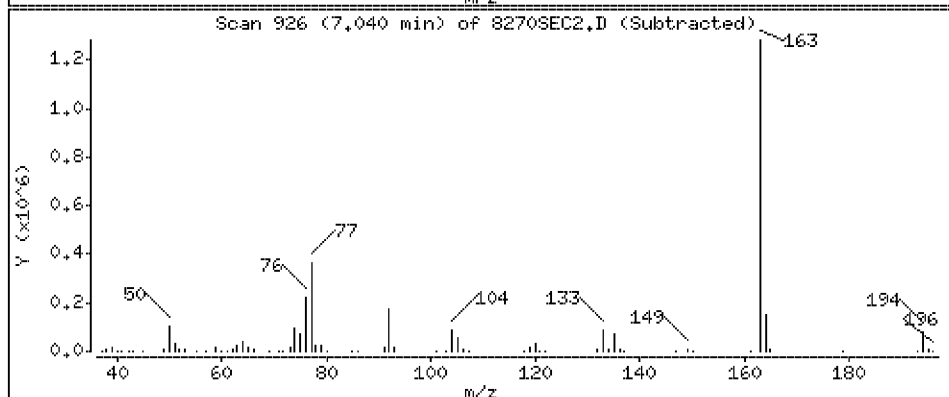
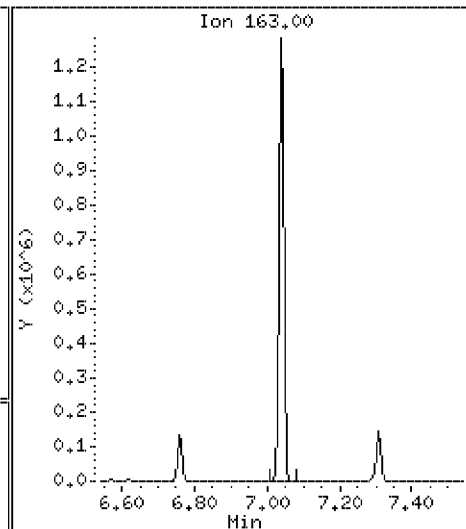
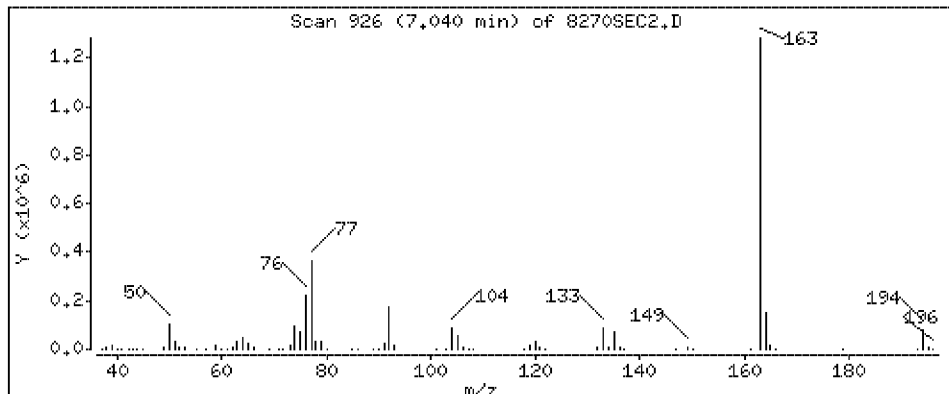
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

65 Dimethylphthalate

Concentration: 48.0 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

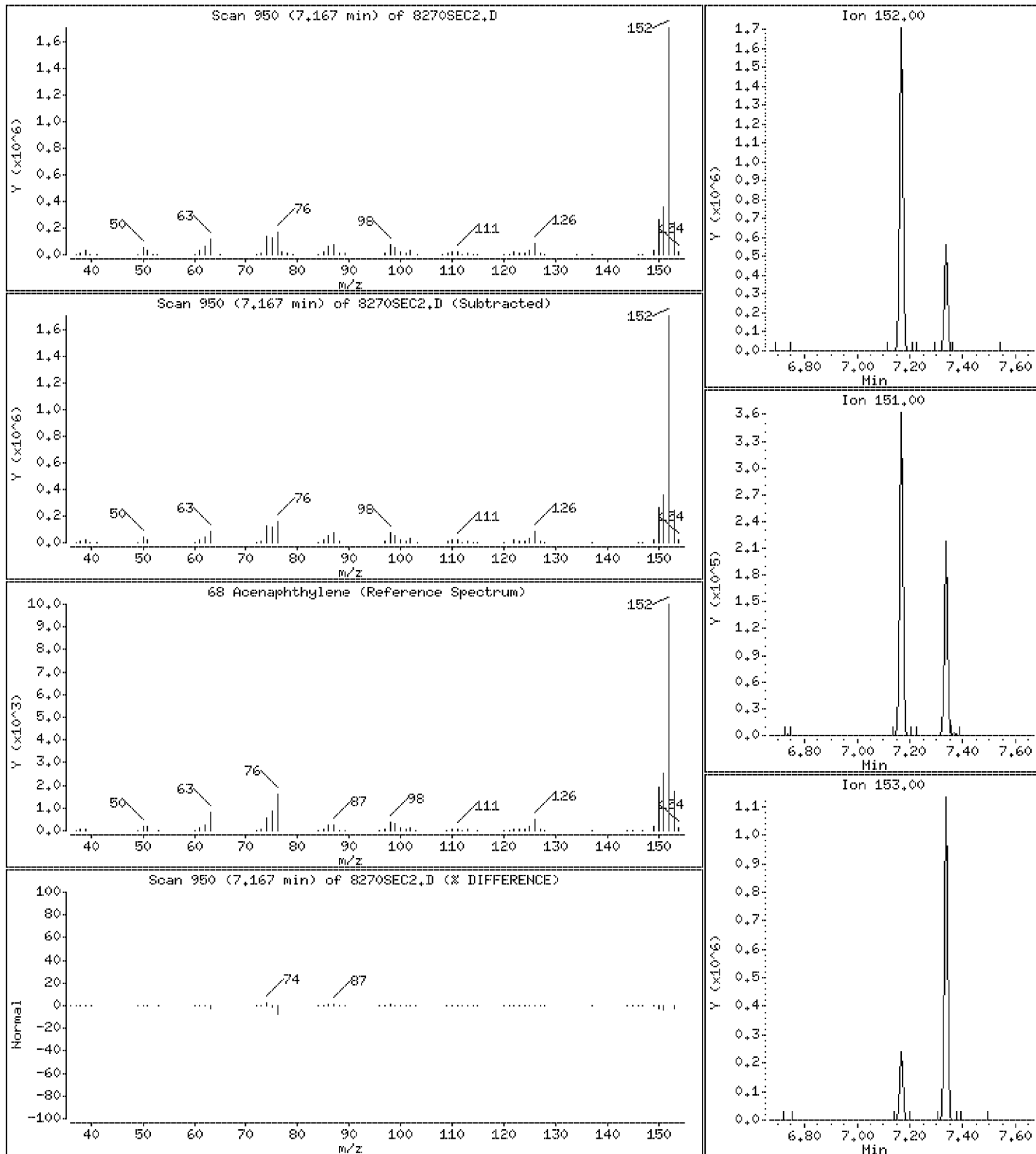
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

68 Acenaphthylene

Concentration: 48.1 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

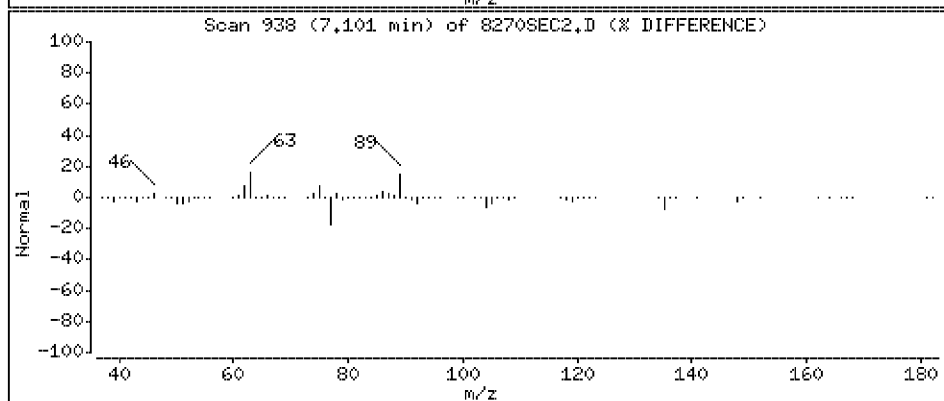
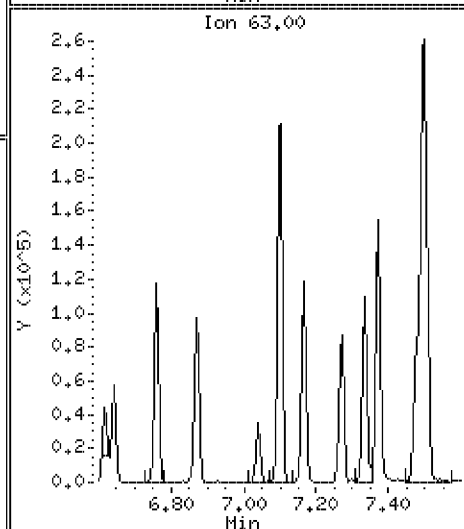
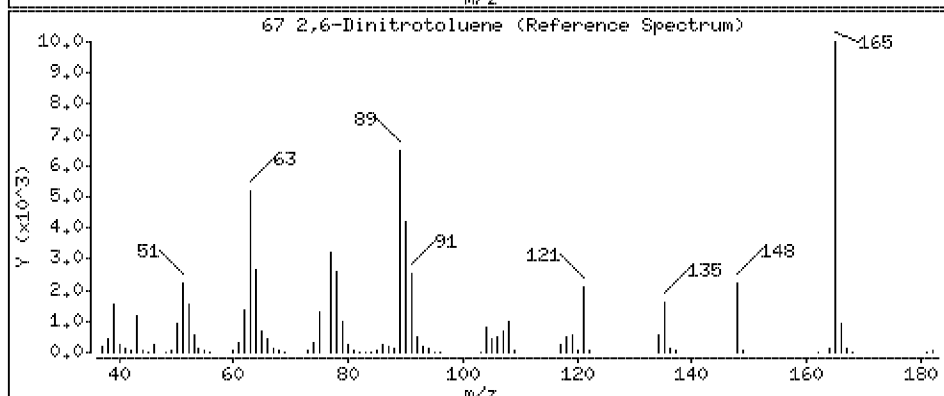
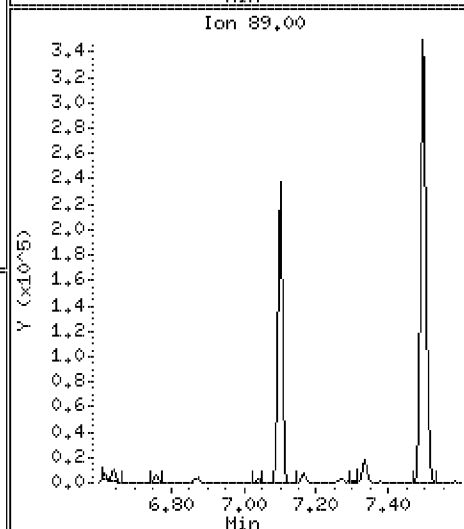
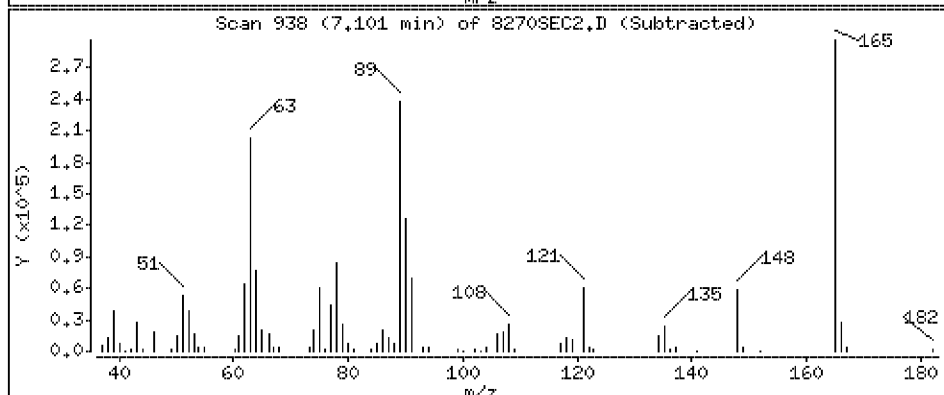
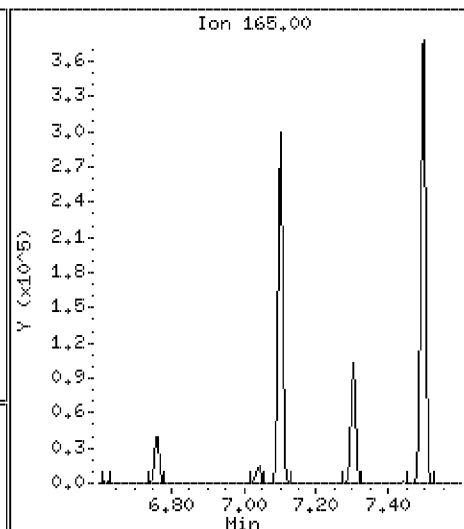
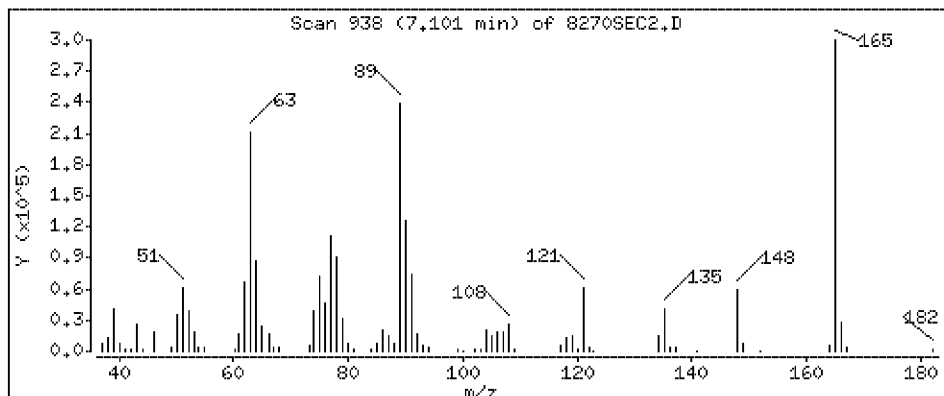
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

67 2,6-Dinitrotoluene

Concentration: 47.0 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

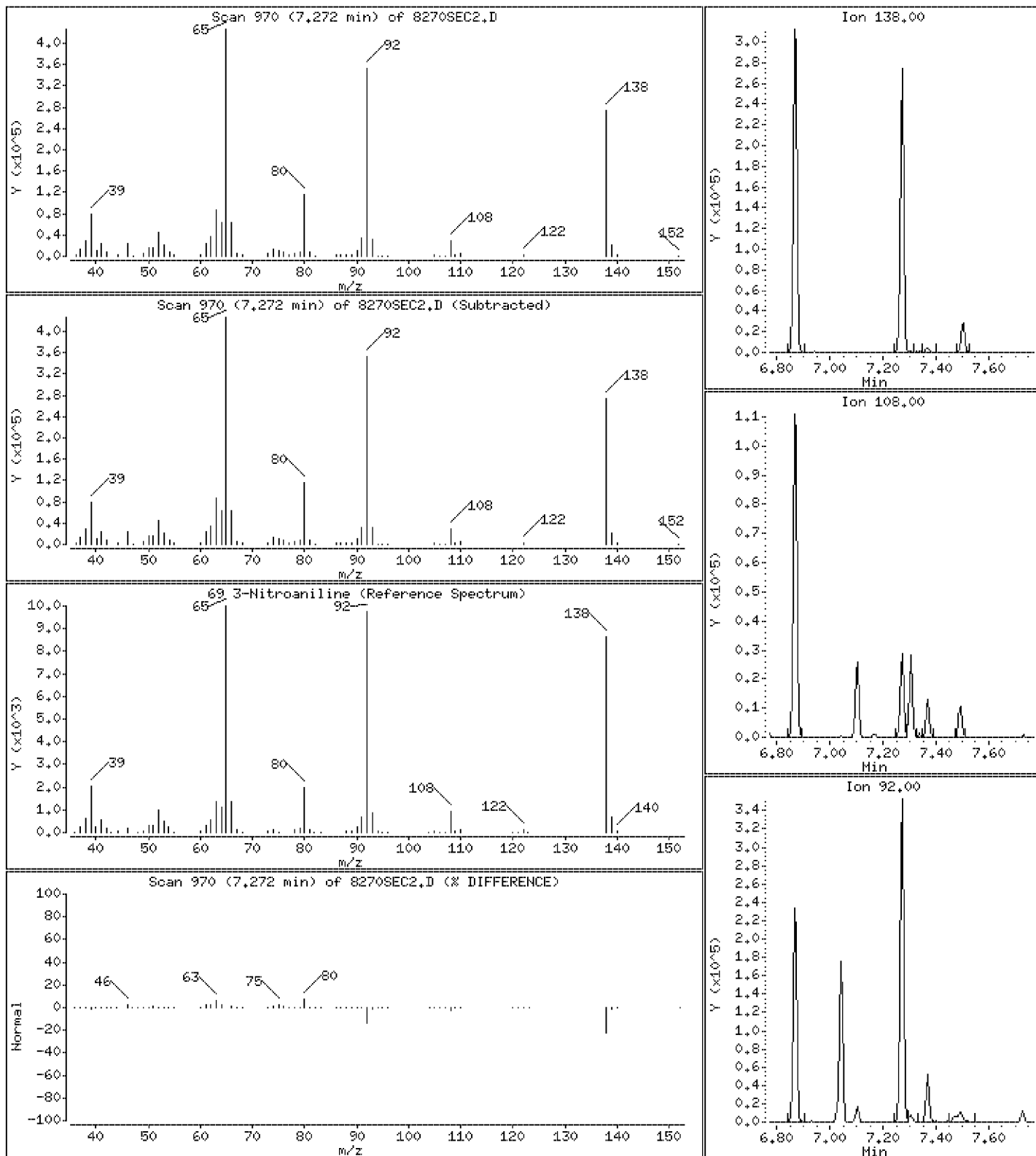
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

69 3-Nitroaniline

Concentration: 49.4 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

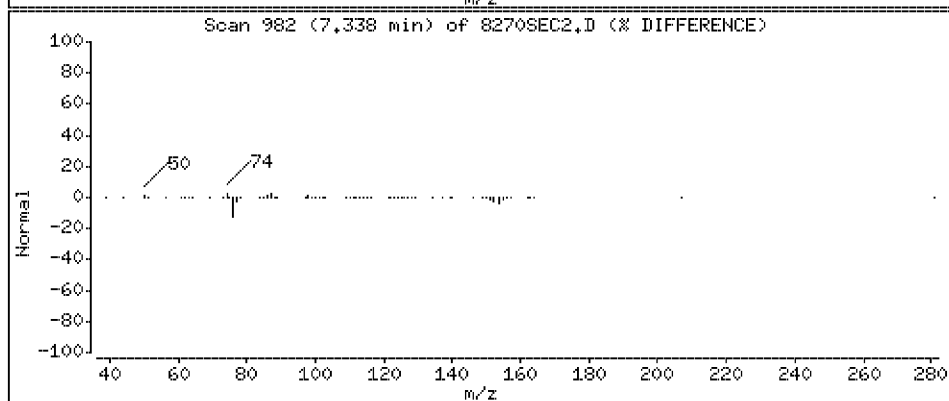
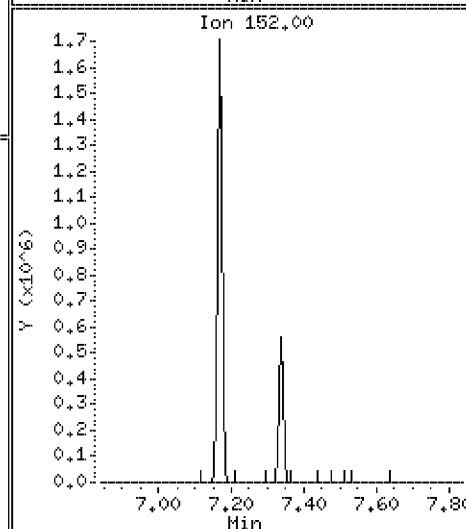
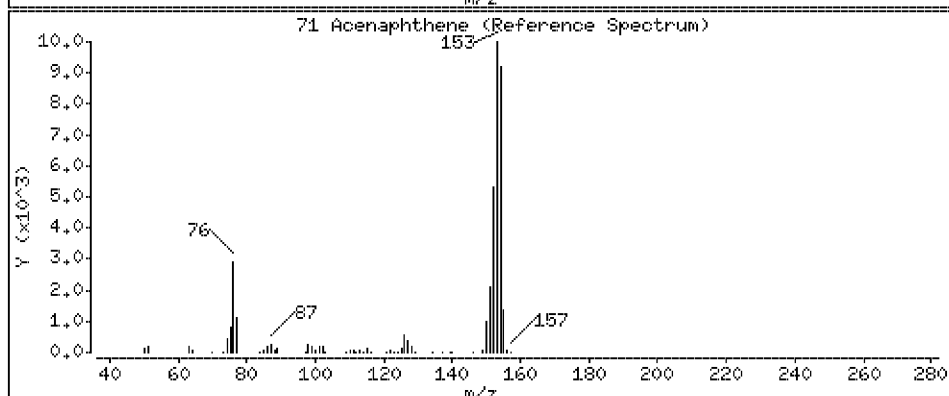
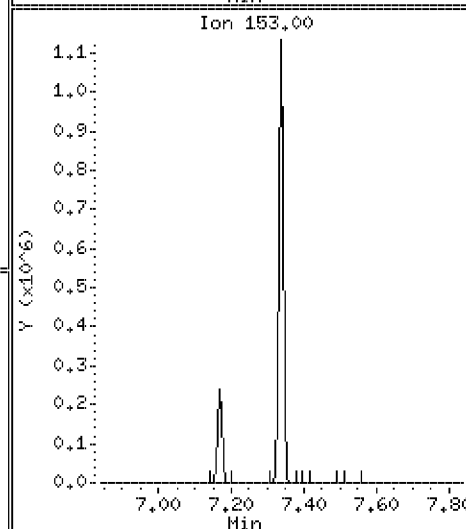
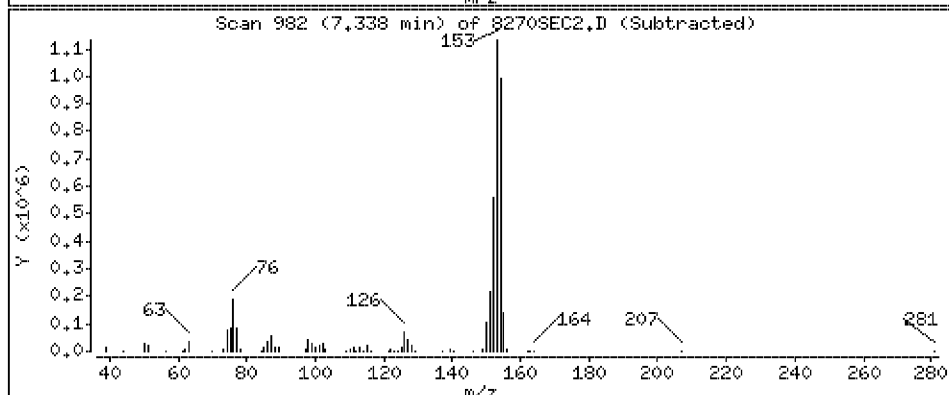
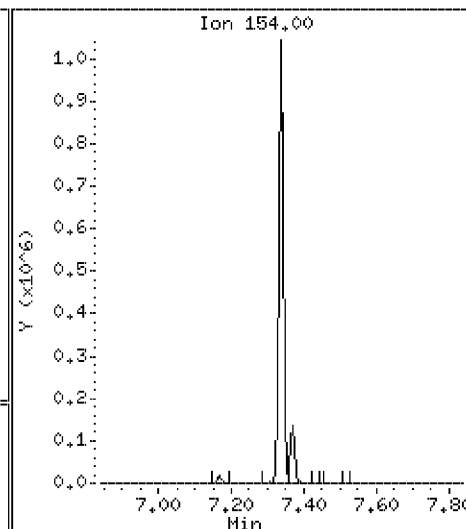
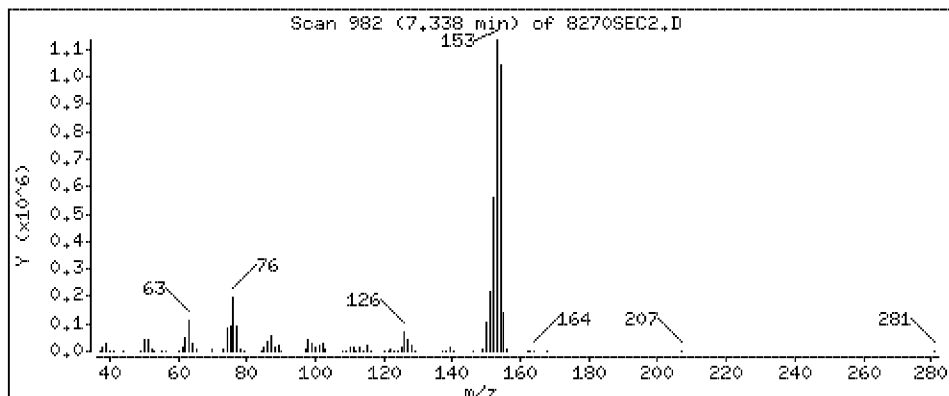
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

71 Acenaphthene

Concentration: 46.4 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

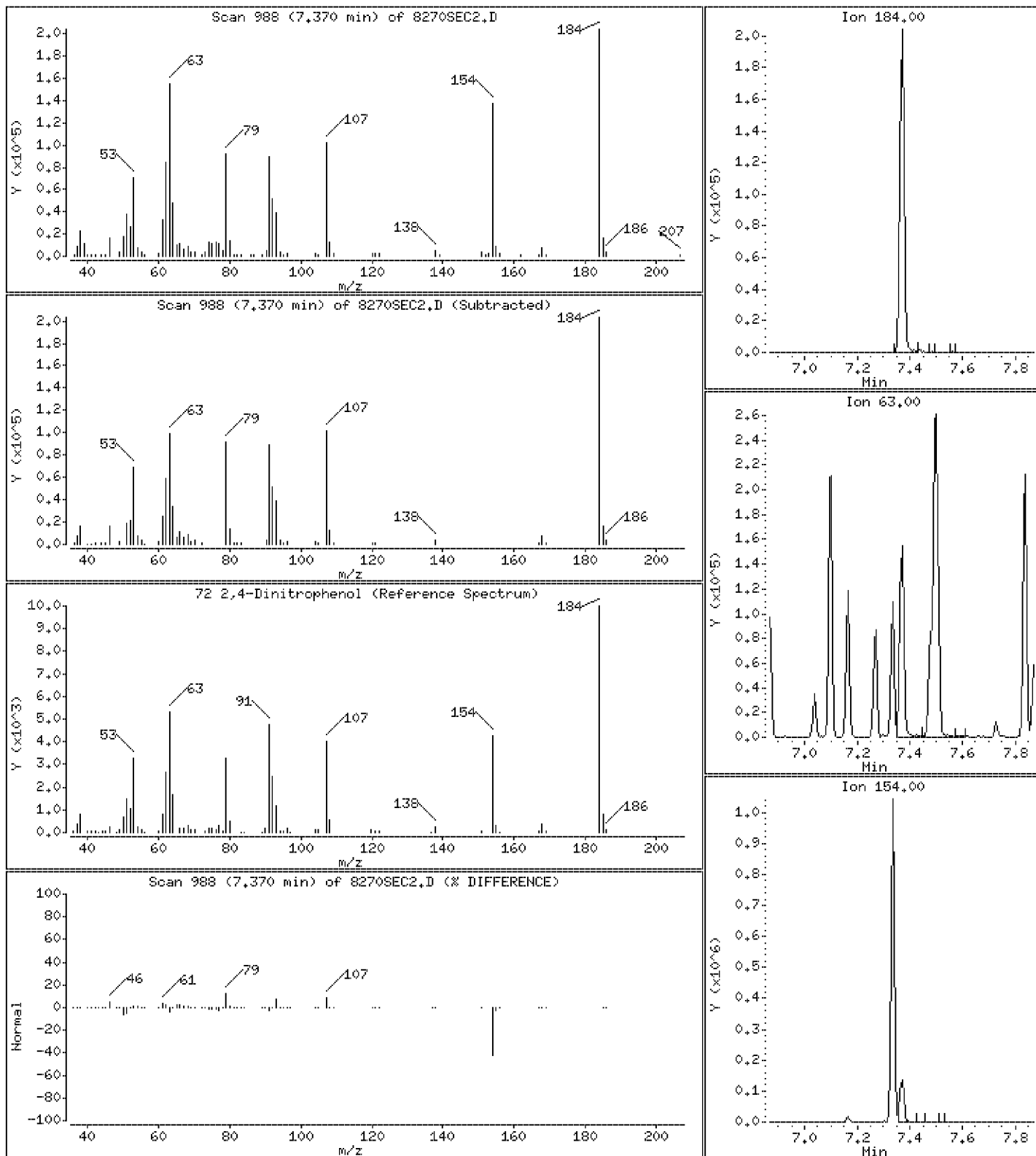
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

72 2,4-Dinitrophenol

Concentration: 49.6 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

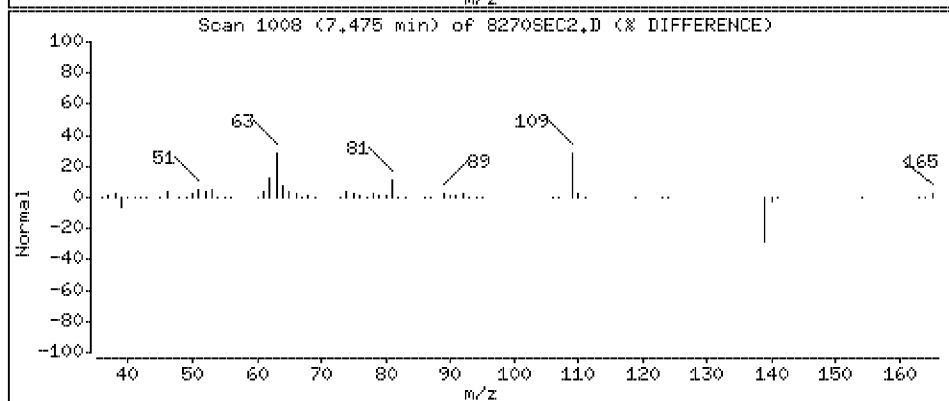
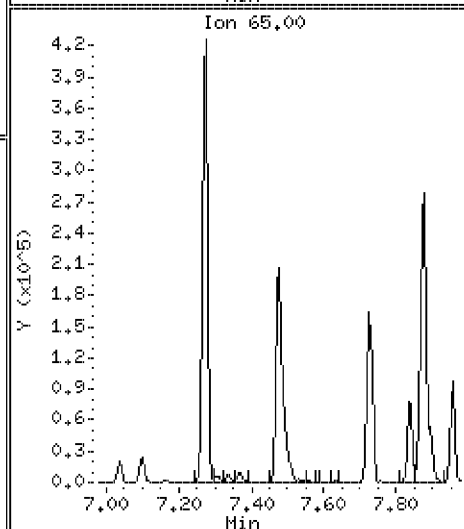
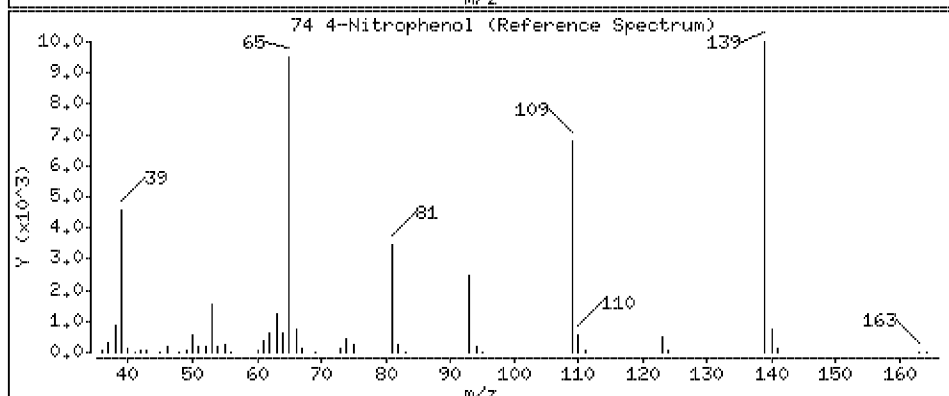
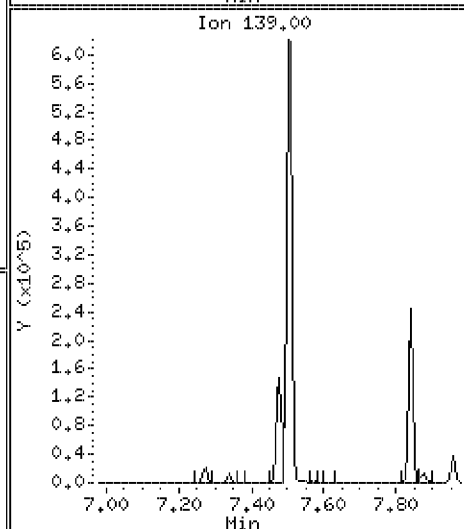
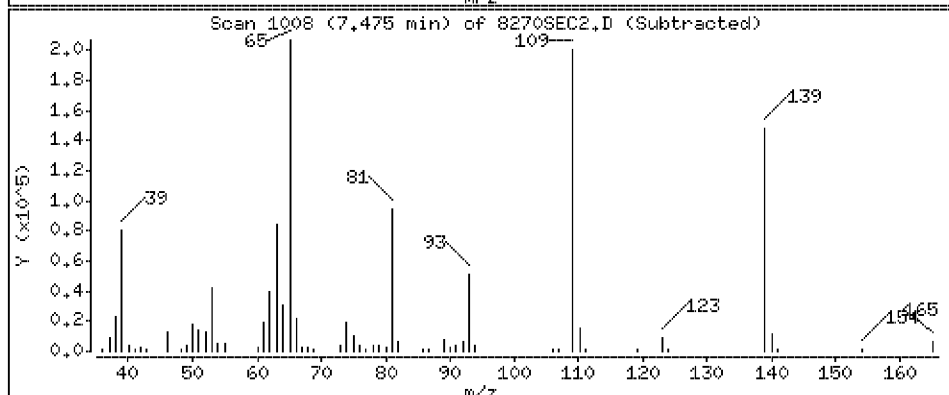
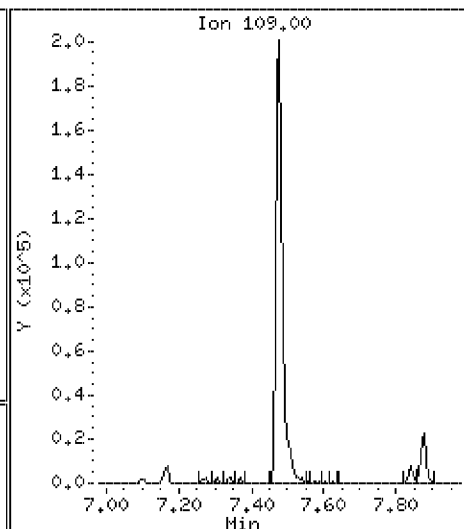
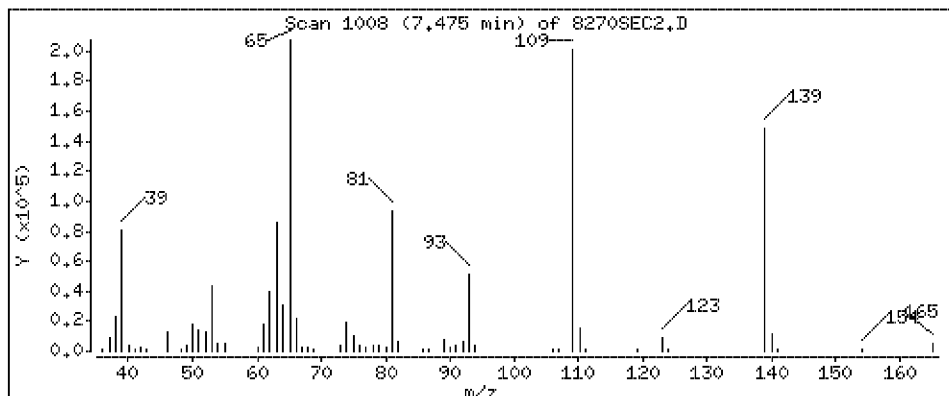
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

74 4-Nitrophenol

Concentration: 47.8 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

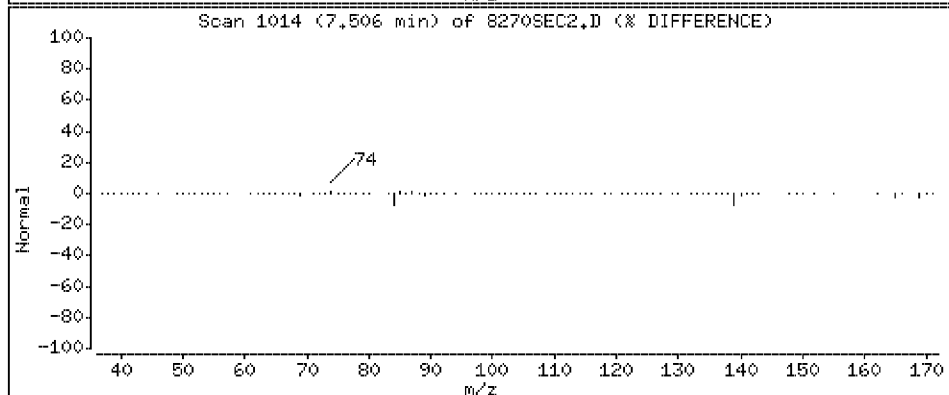
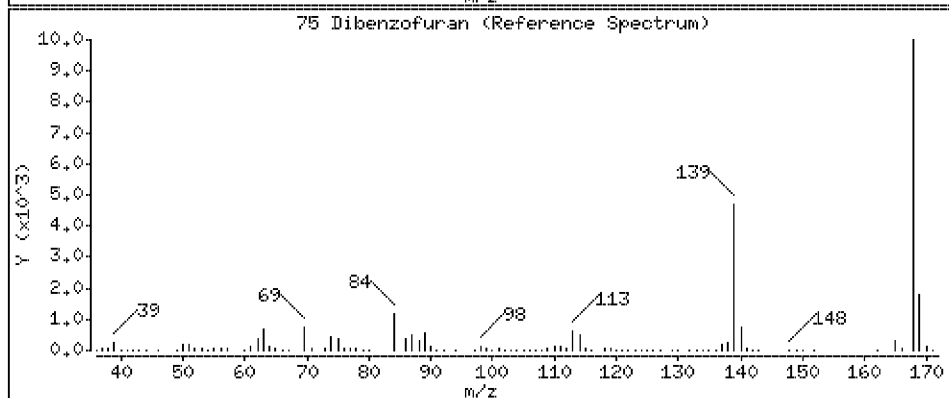
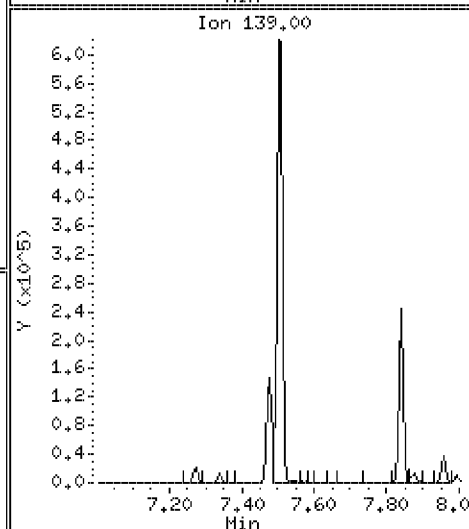
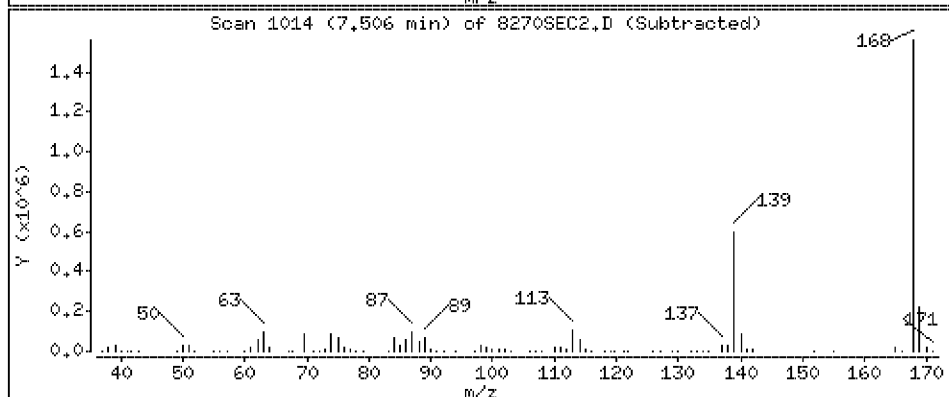
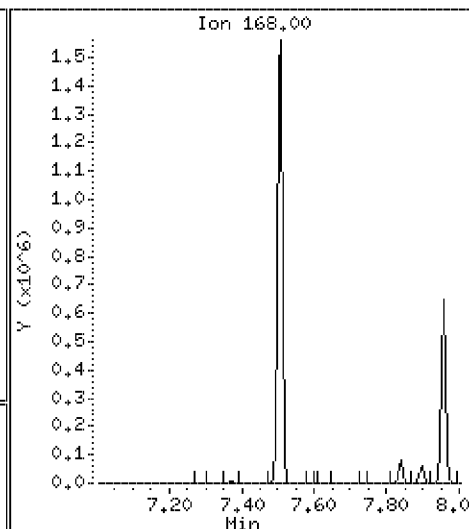
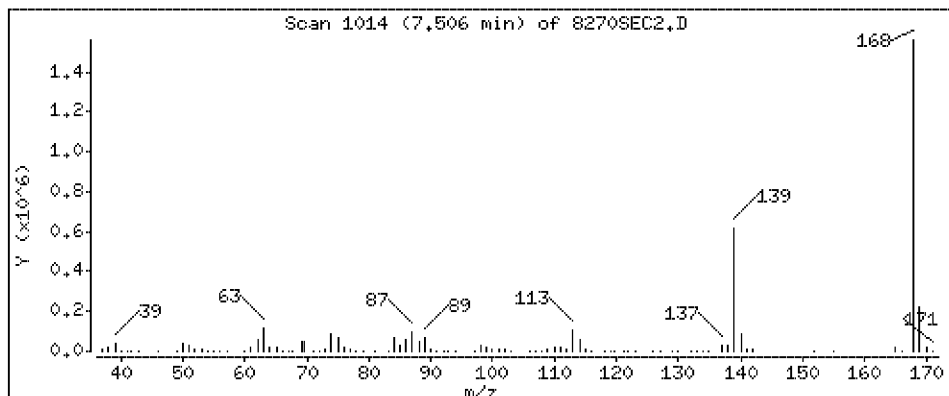
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

75 Dibenzofuran

Concentration: 47.2 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

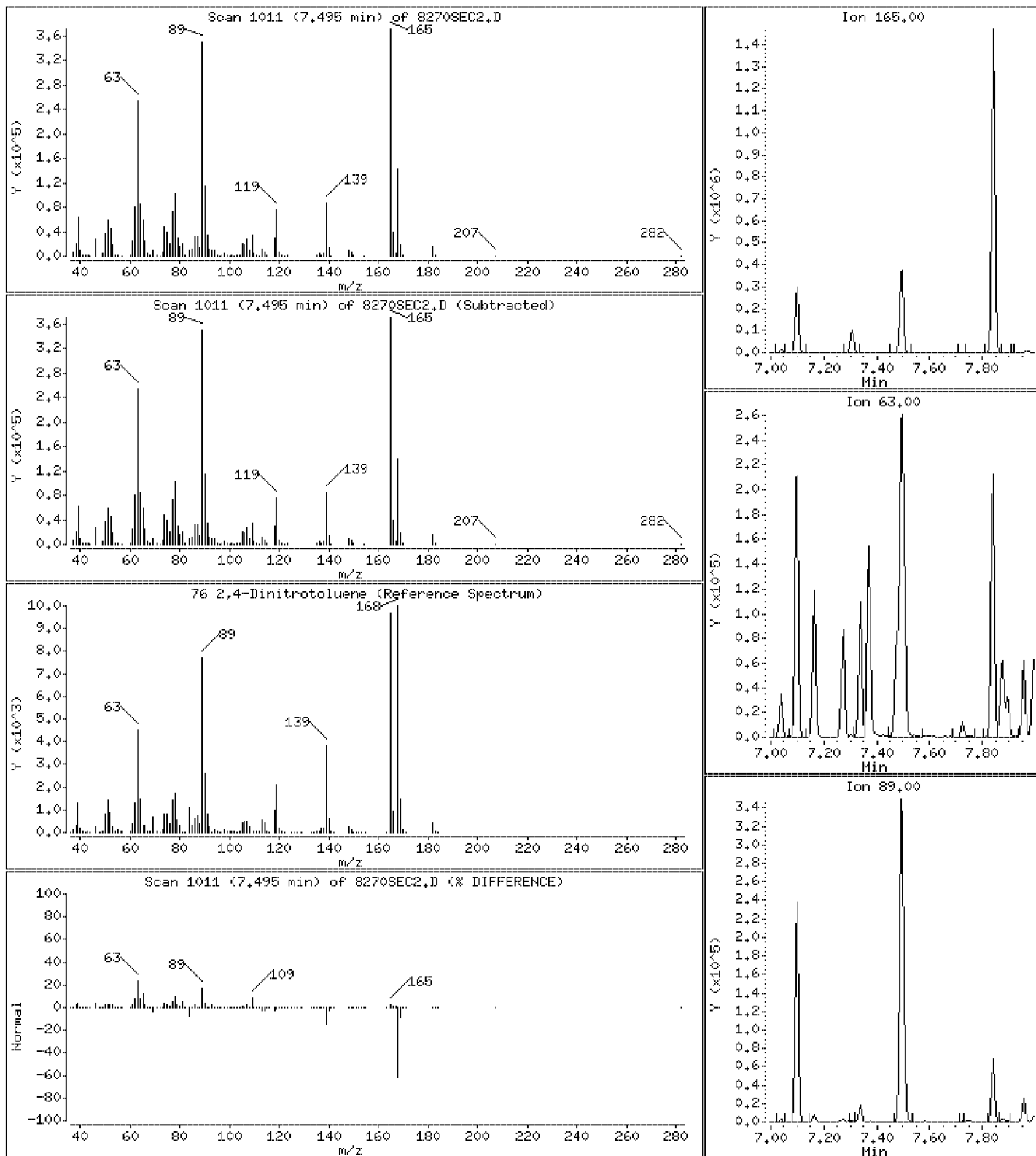
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

76 2,4-Dinitrotoluene

Concentration: 46.6 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

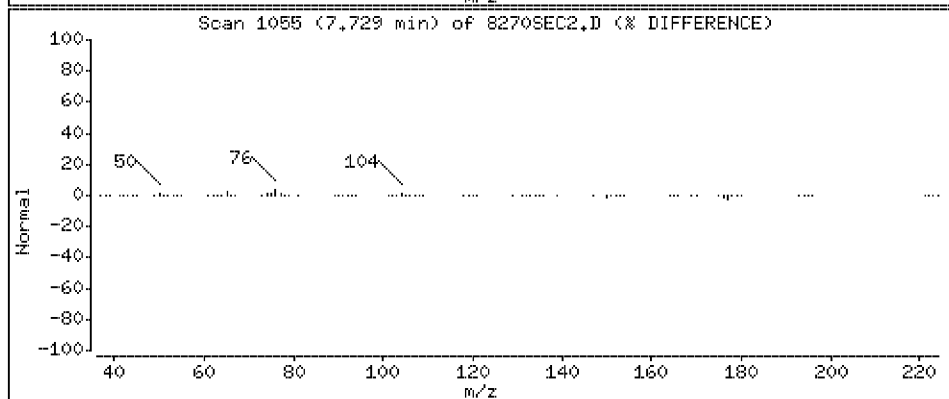
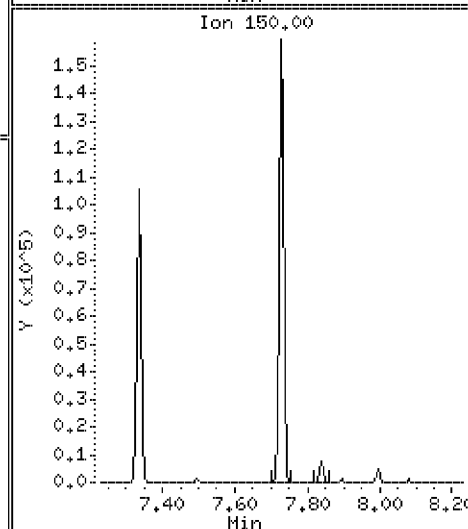
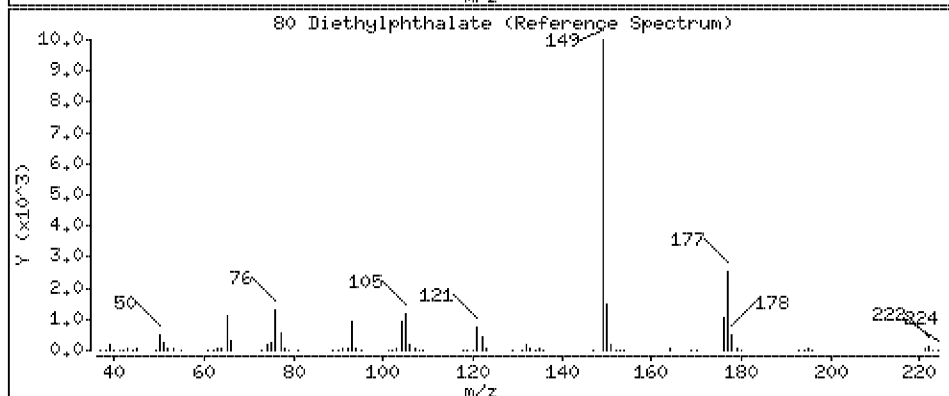
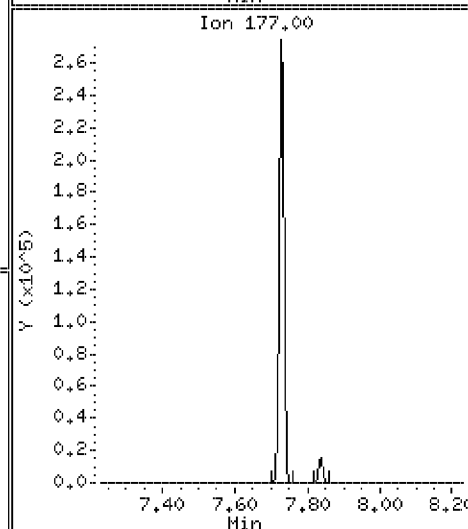
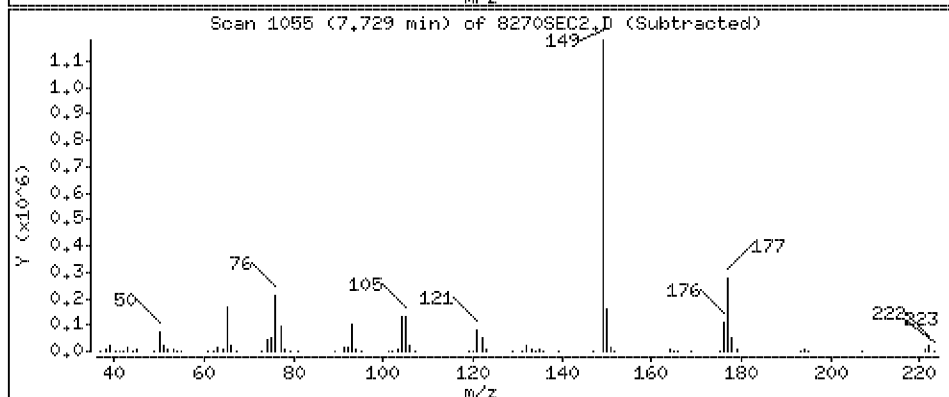
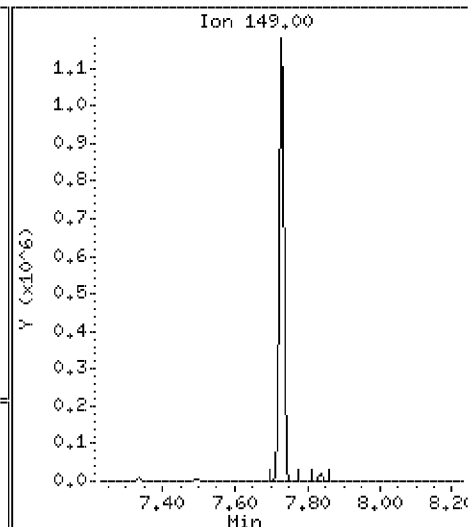
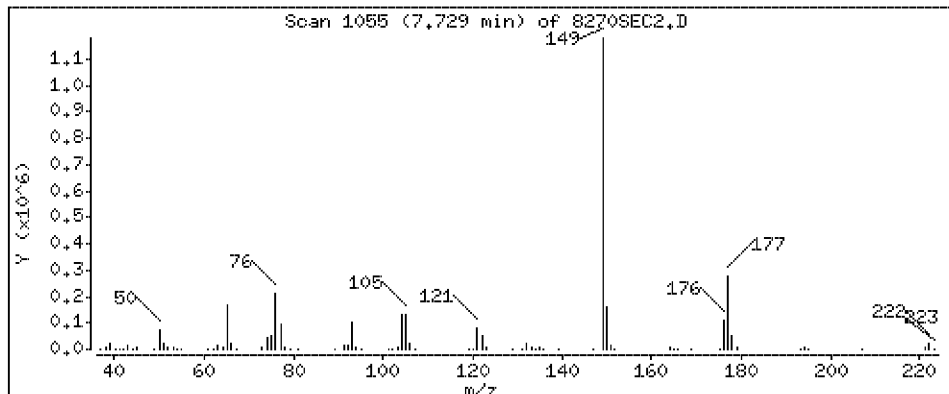
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

80 Diethylphthalate

Concentration: 47.1 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

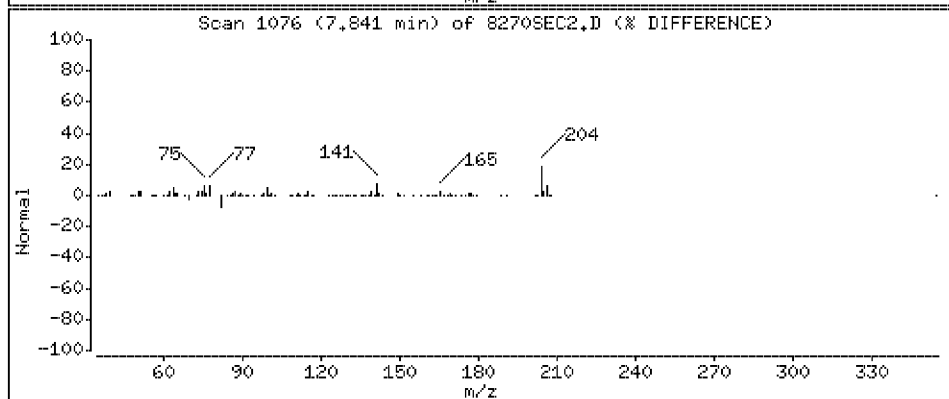
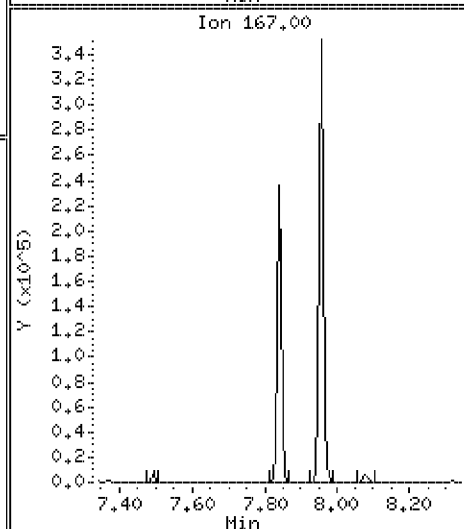
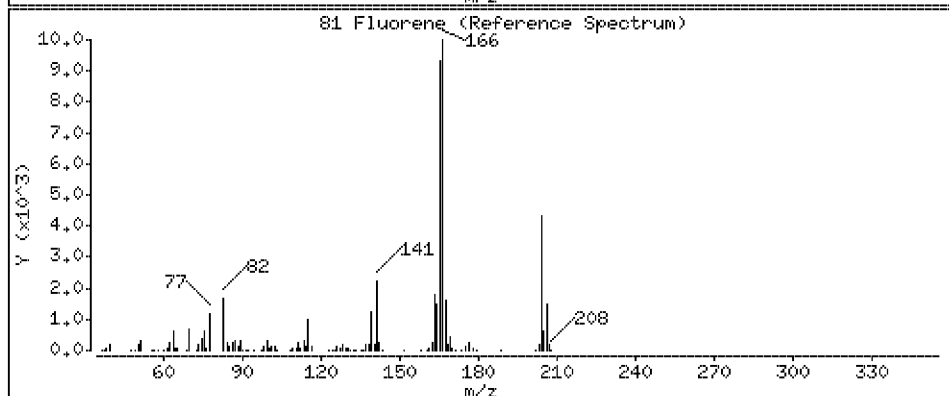
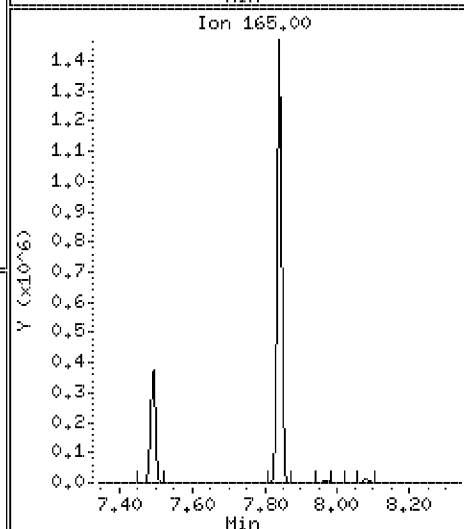
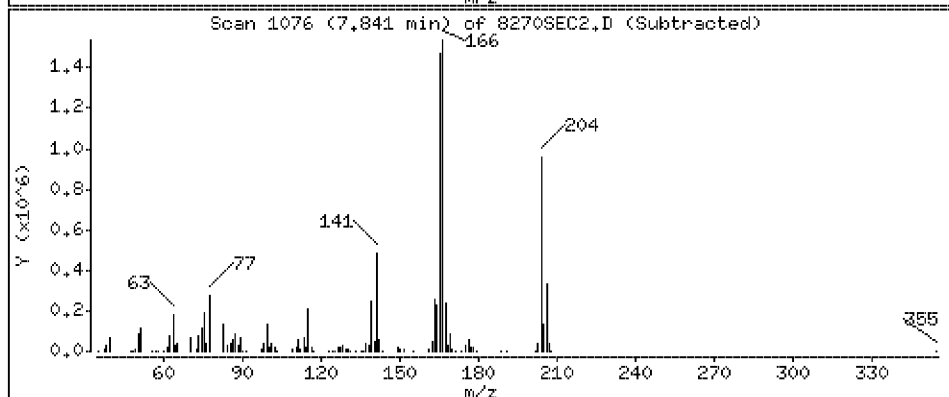
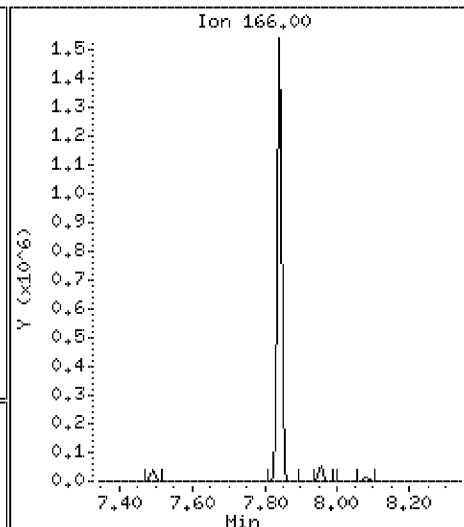
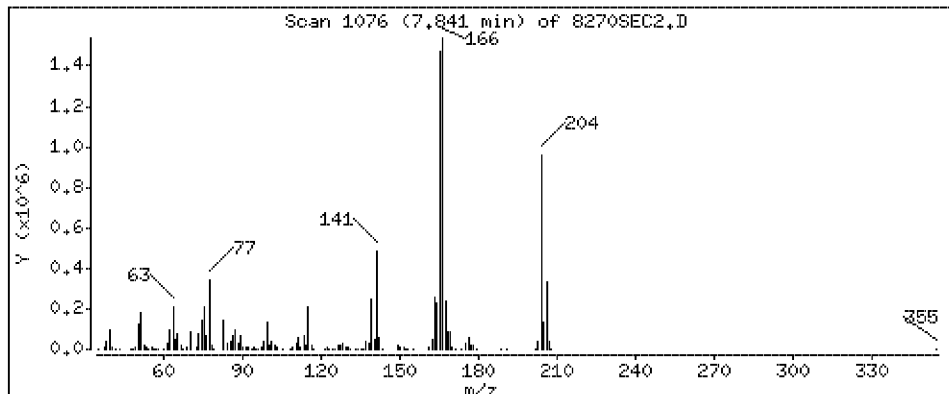
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

81 Fluorene

Concentration: 48.4 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

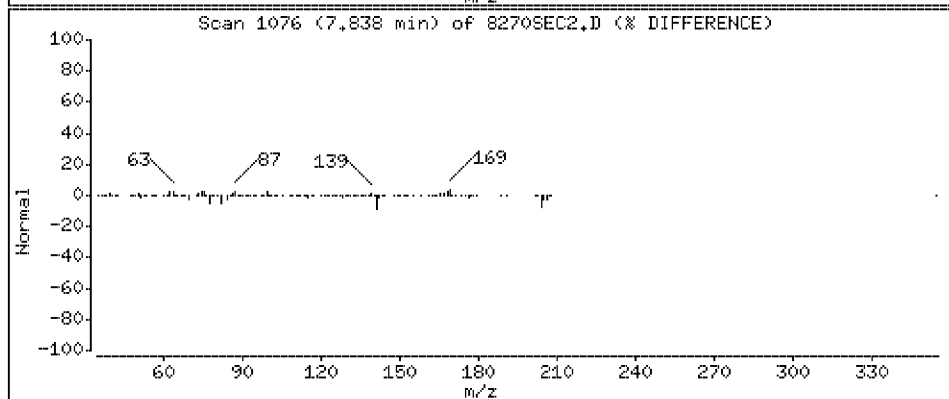
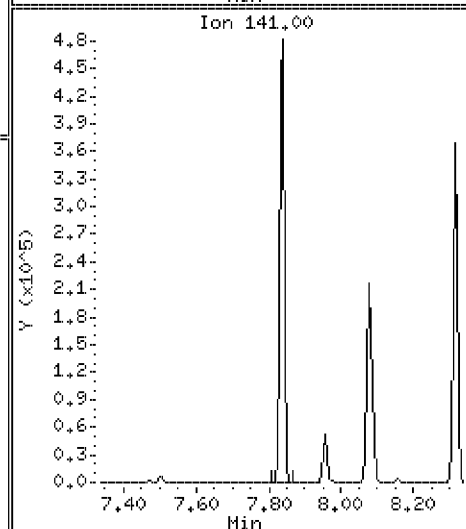
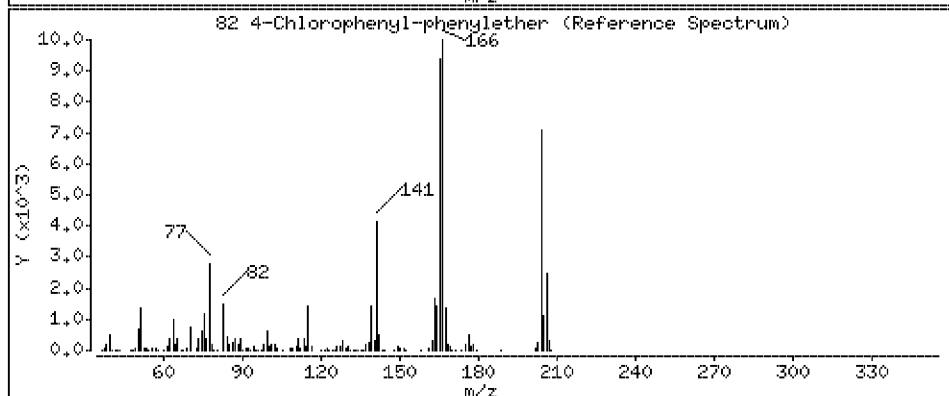
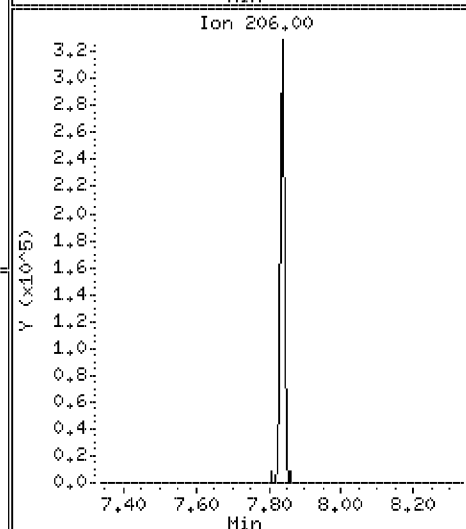
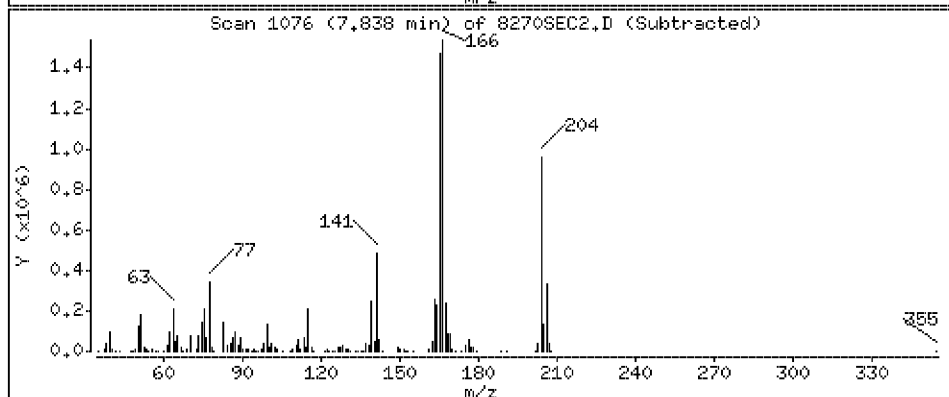
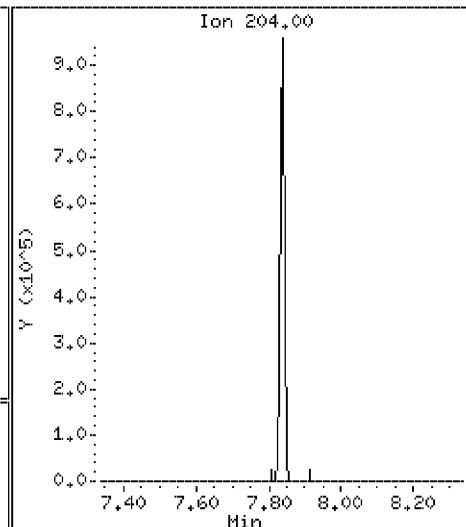
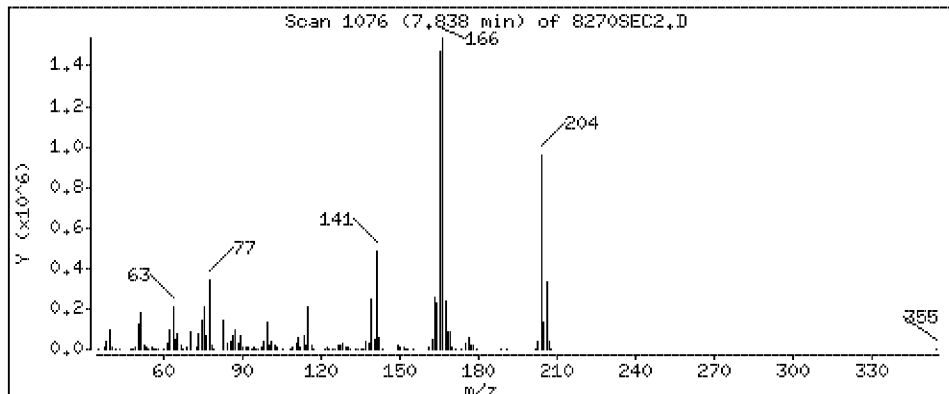
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

82 4-Chlorophenyl-phenylether

Concentration: 47.5 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

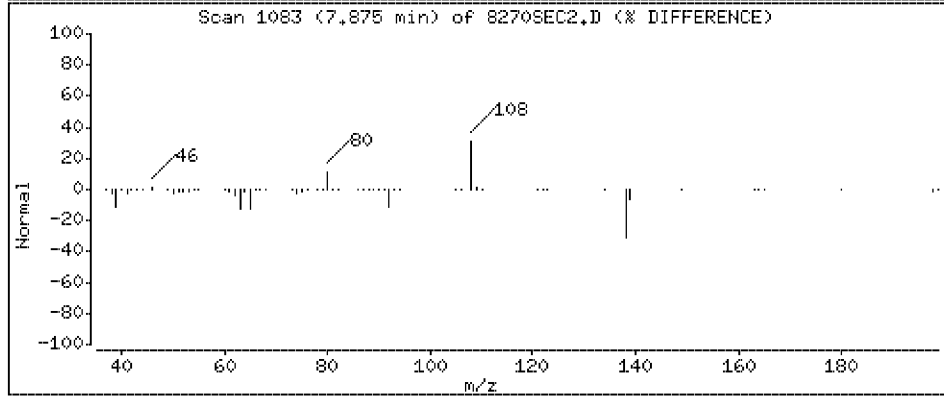
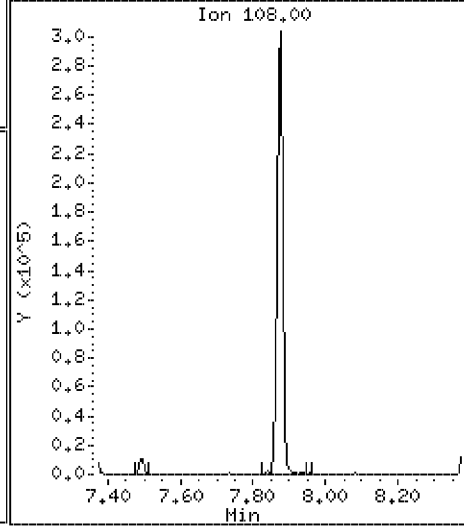
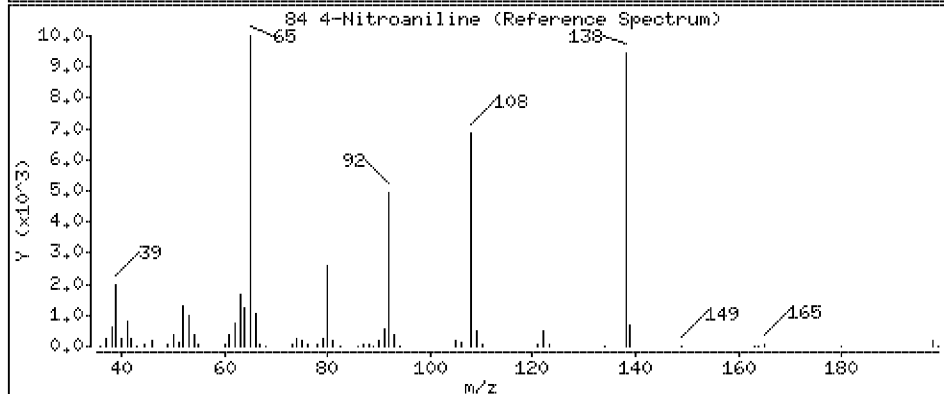
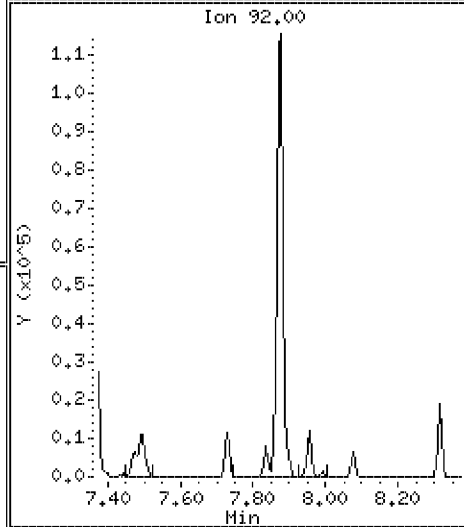
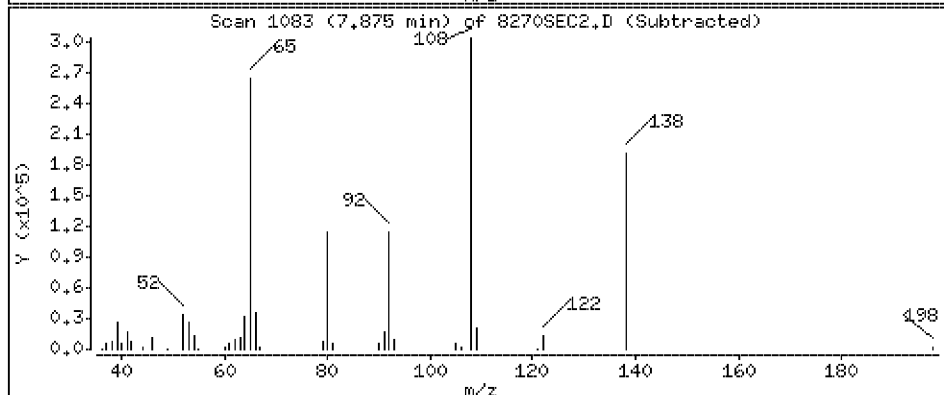
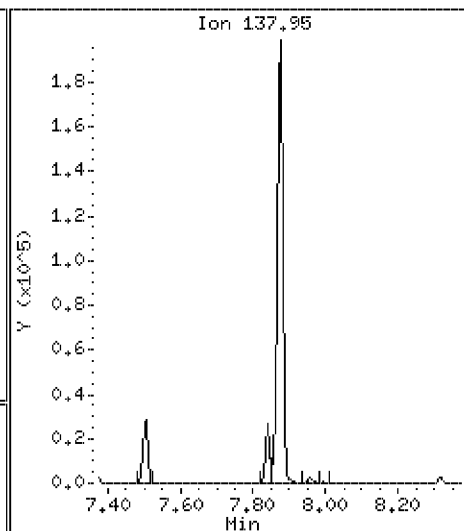
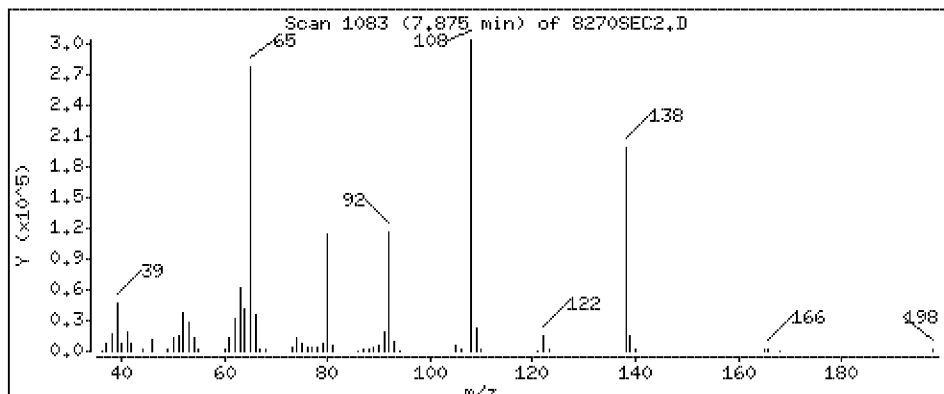
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

84 4-Nitroaniline

Concentration: 49.4 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

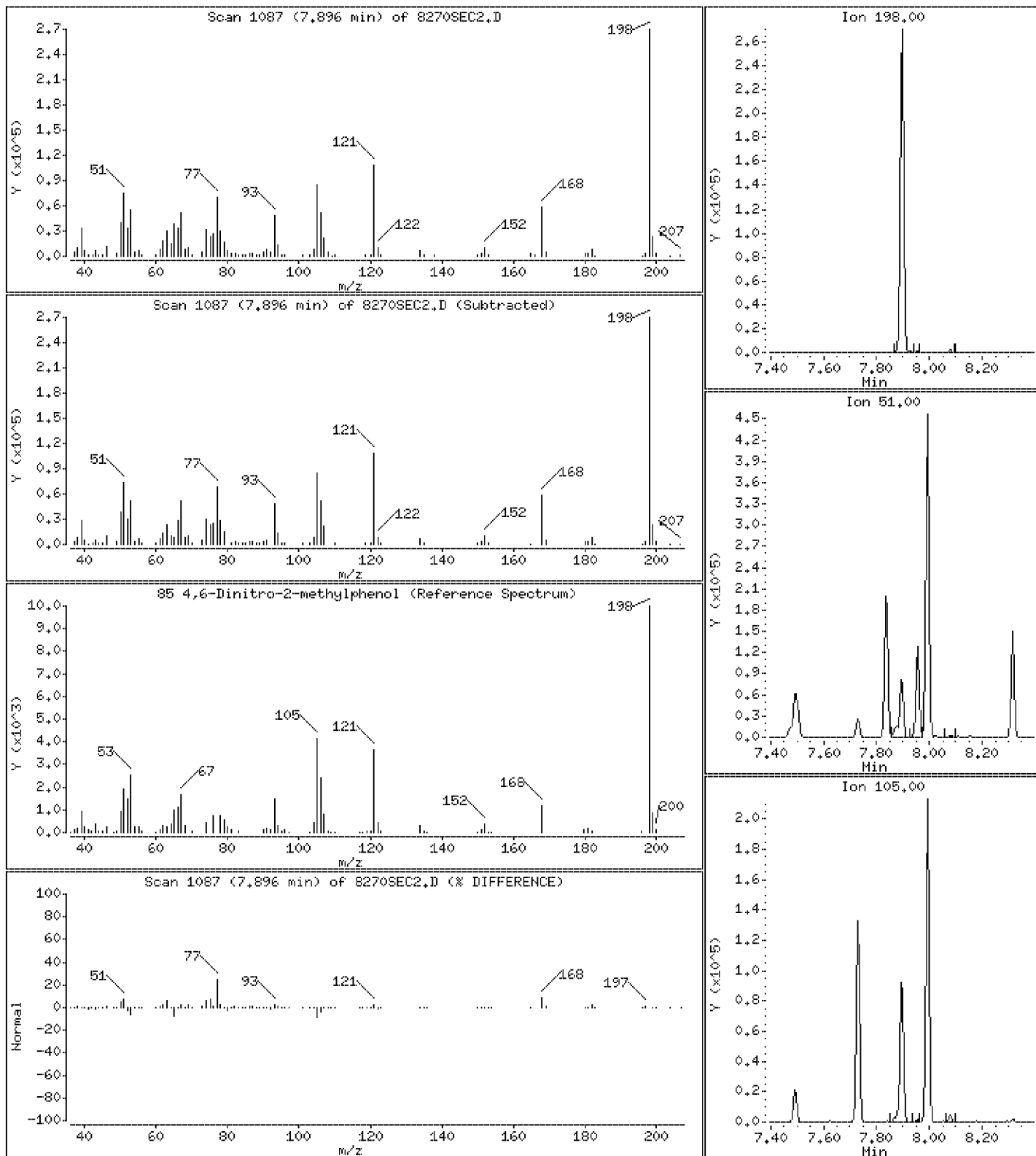
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

85 4,6-Dinitro-2-methylphenol

Concentration: 43.7 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

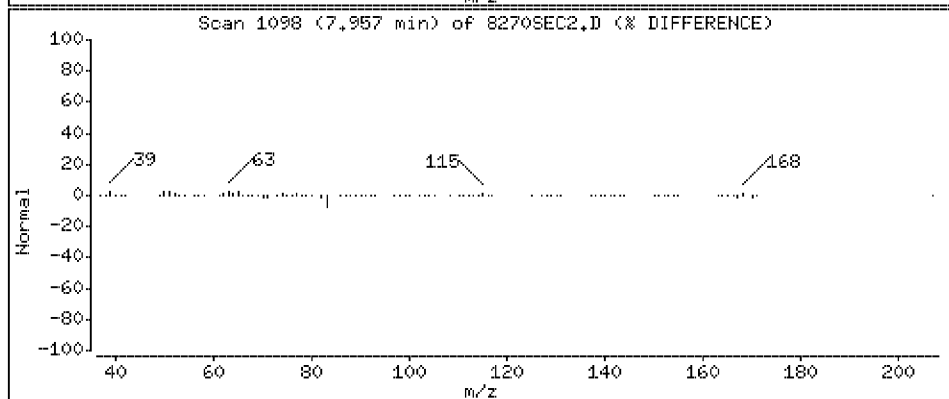
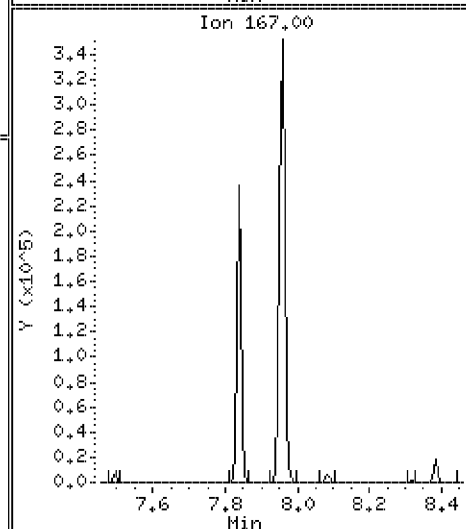
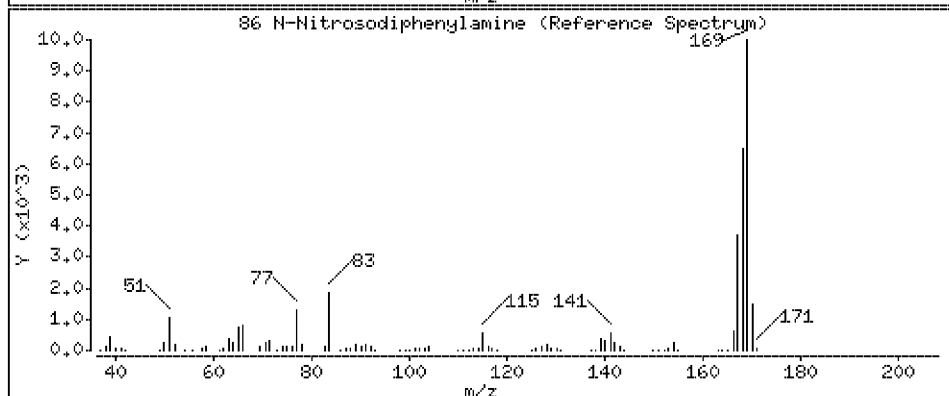
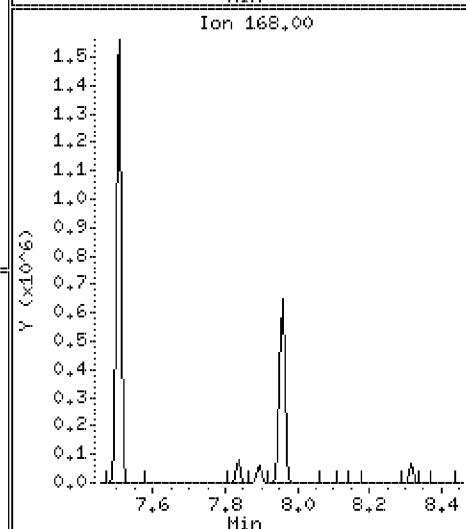
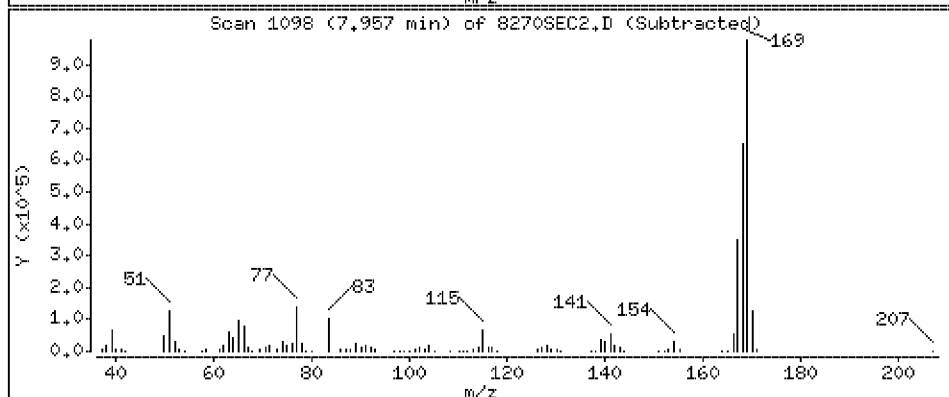
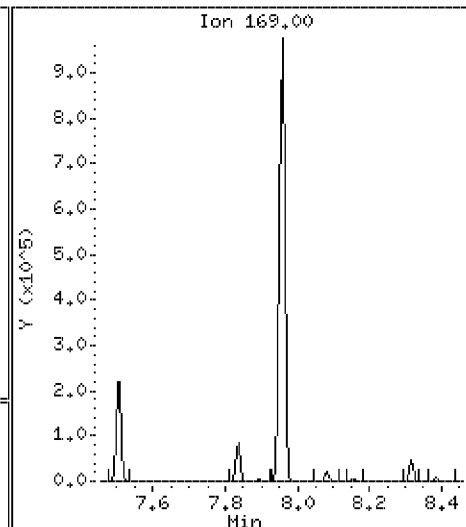
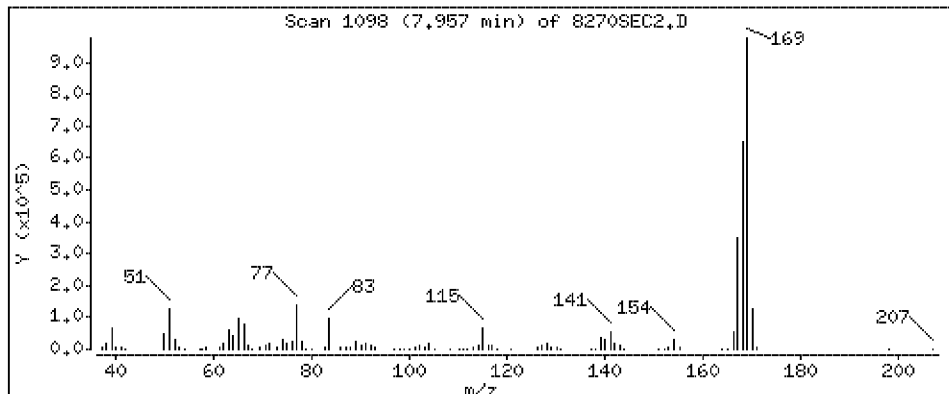
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

86 N-Nitrosodiphenylamine

Concentration: 50.0 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

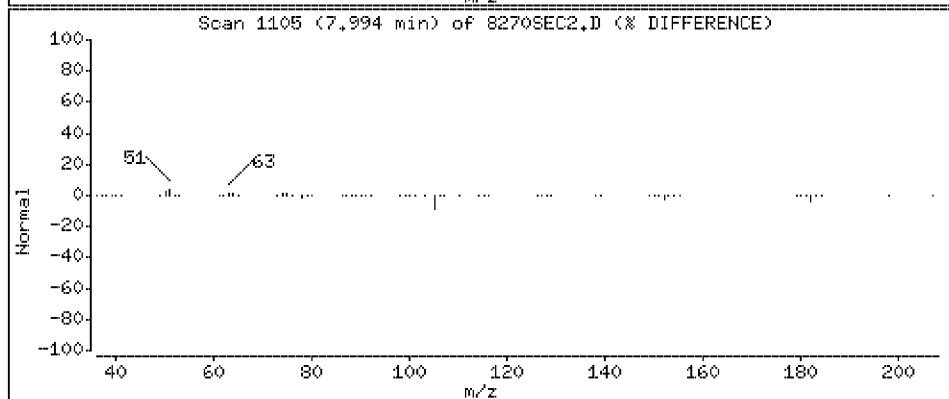
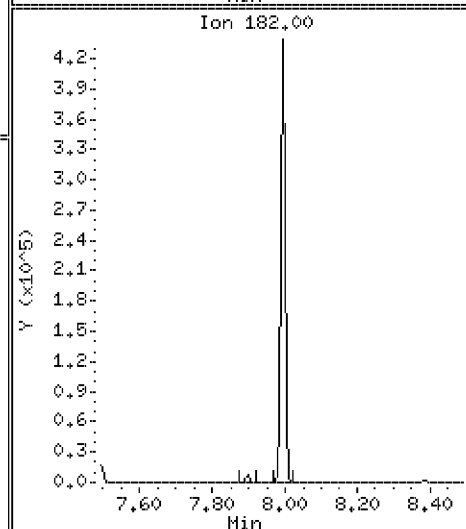
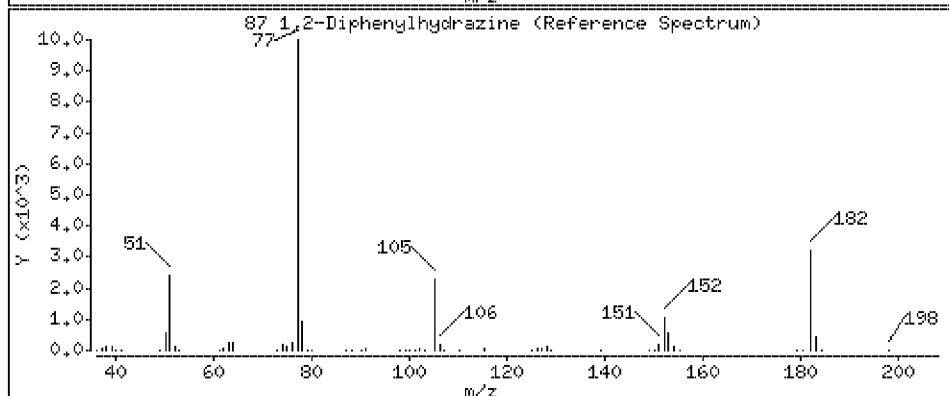
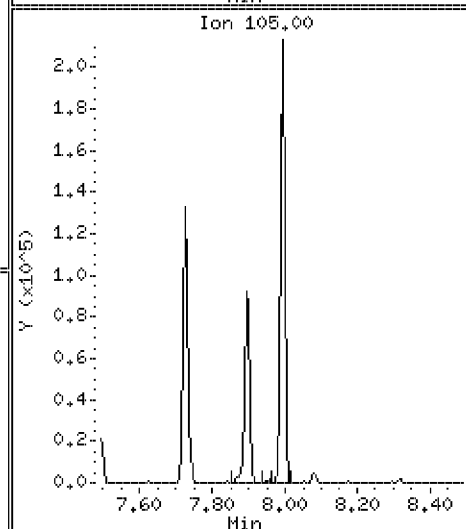
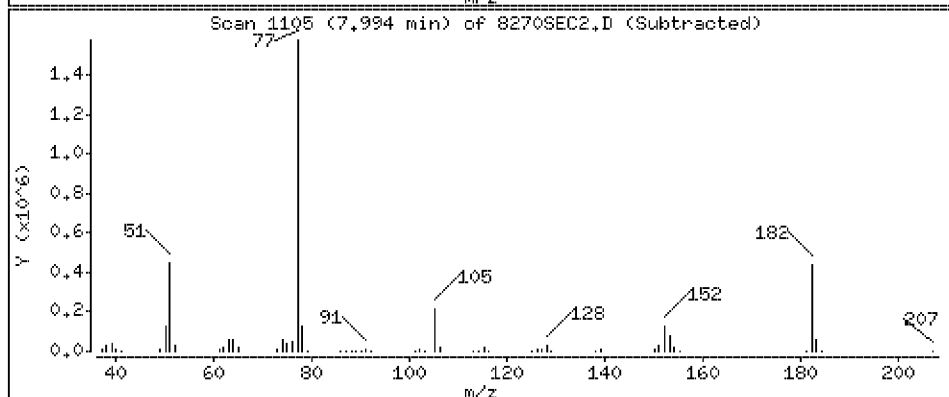
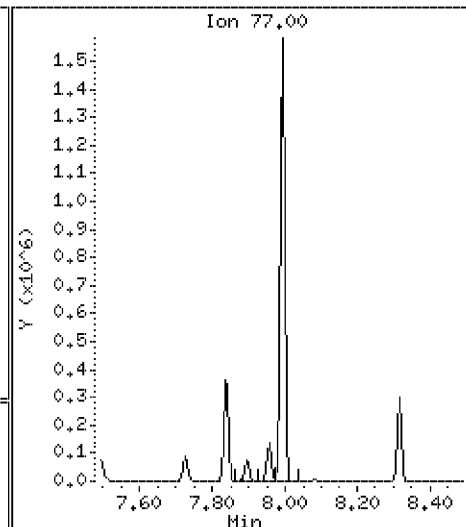
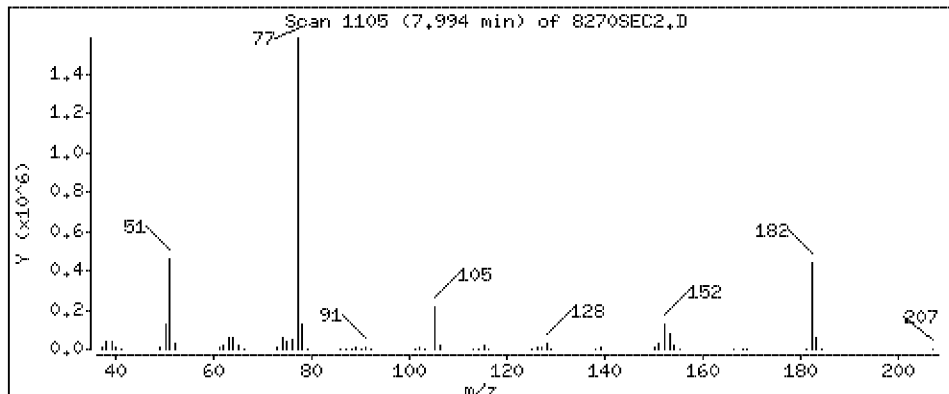
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

87 1,2-Diphenylhydrazine

Concentration: 52.4 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

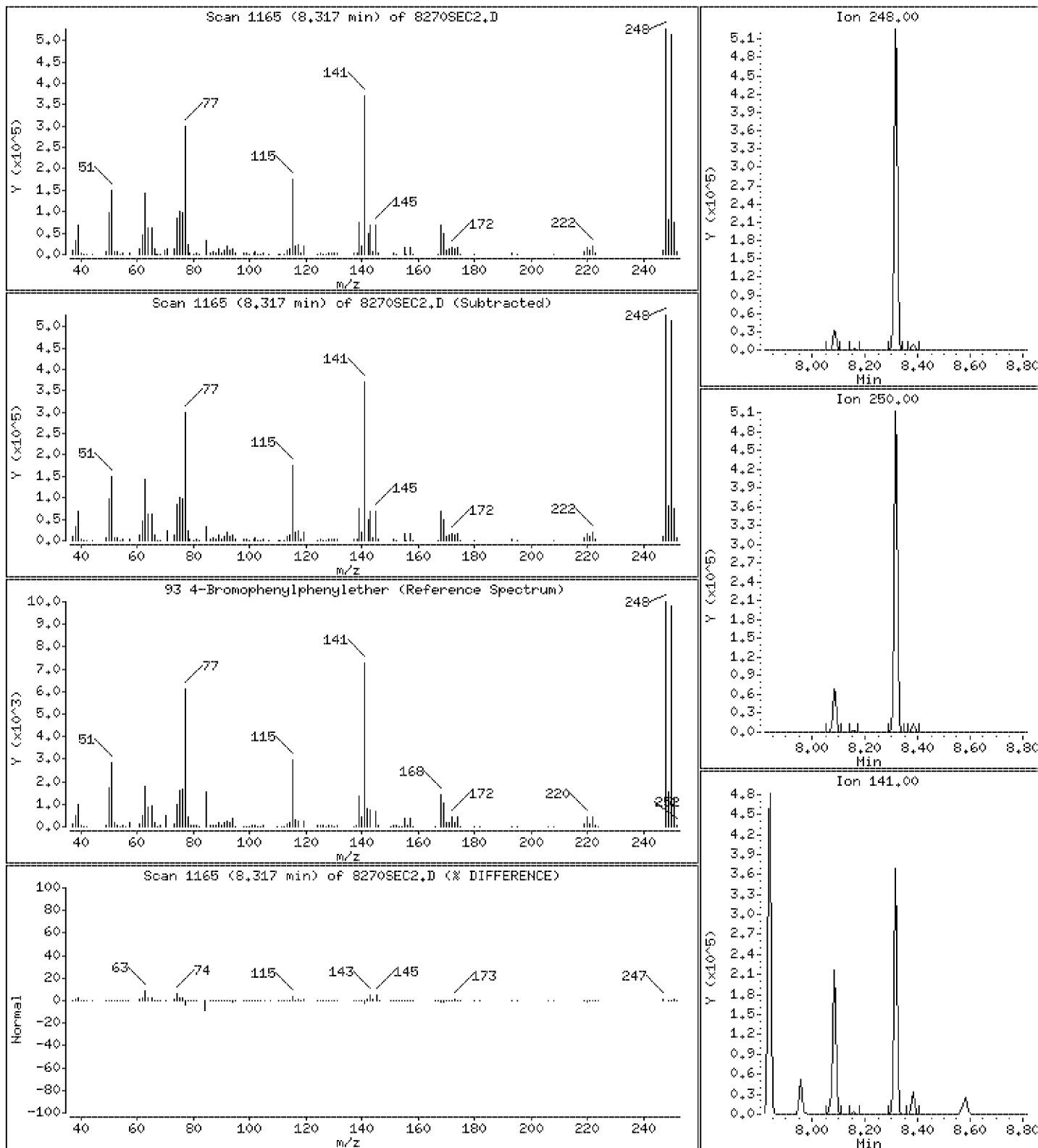
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

93 4-Bromophenylphenylether

Concentration: 47.8 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

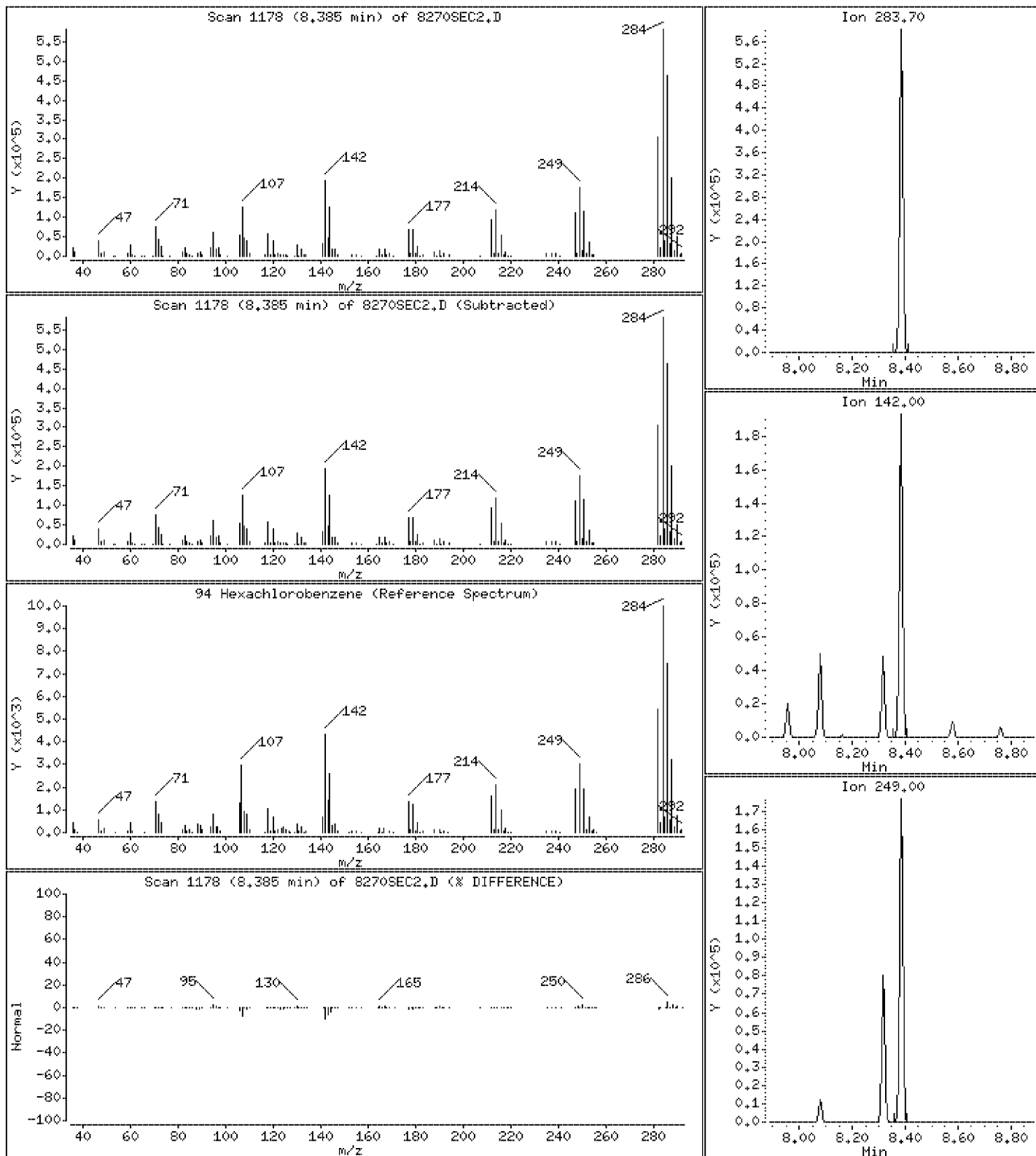
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

94 Hexachlorobenzene

Concentration: 46.5 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

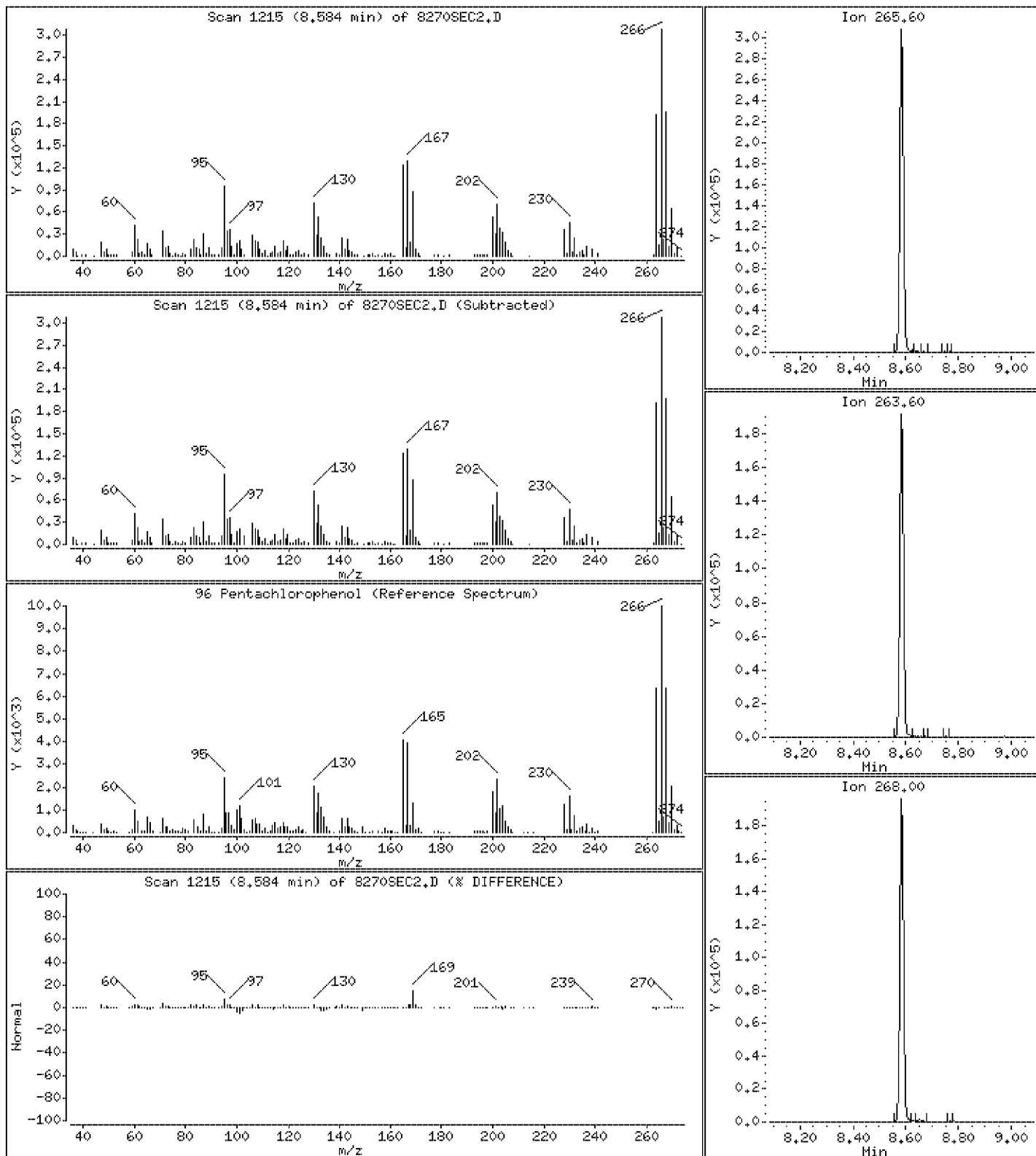
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

96 Pentachlorophenol

Concentration: 45.9 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

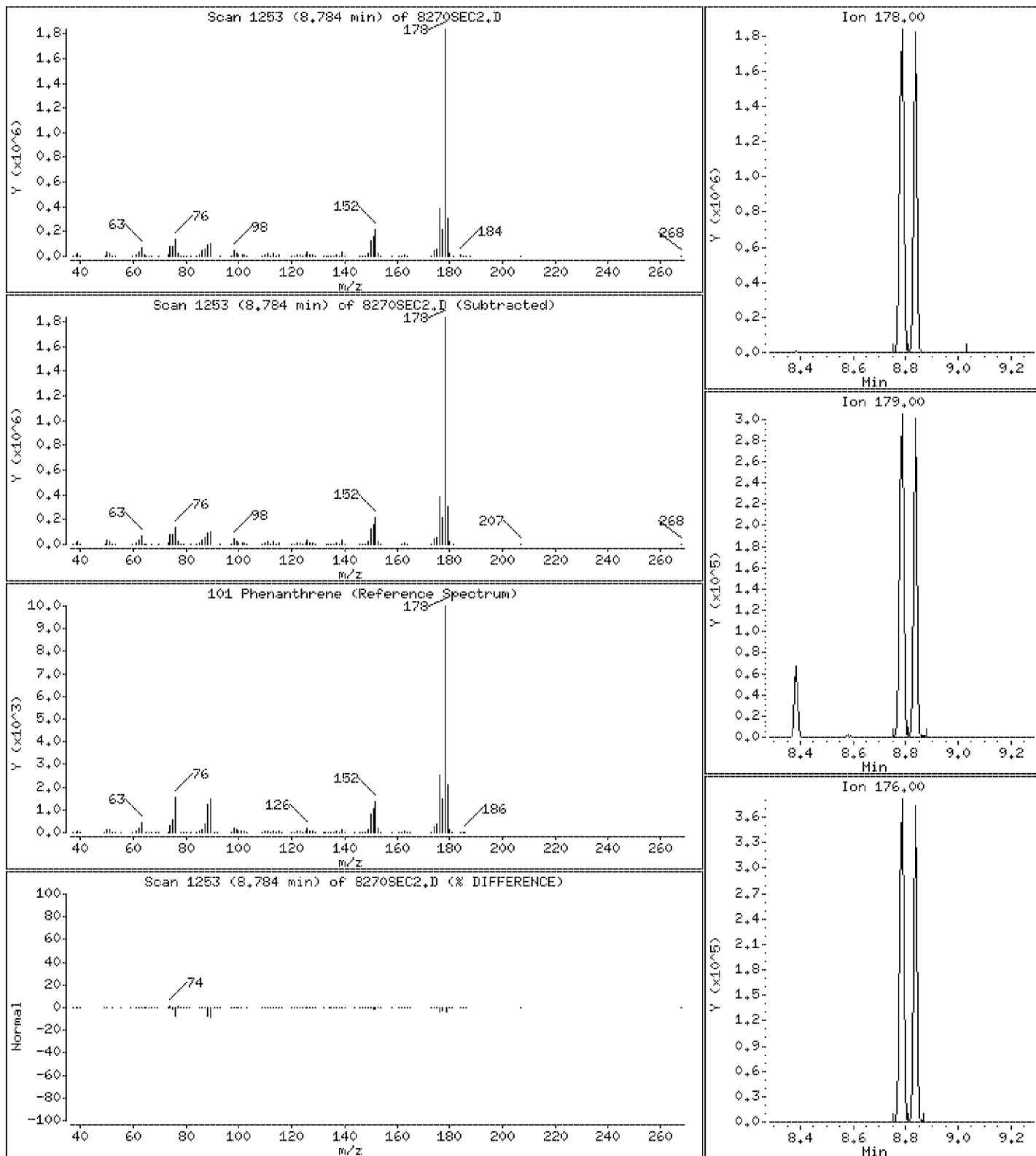
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

101 Phenanthrene

Concentration: 48.1 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

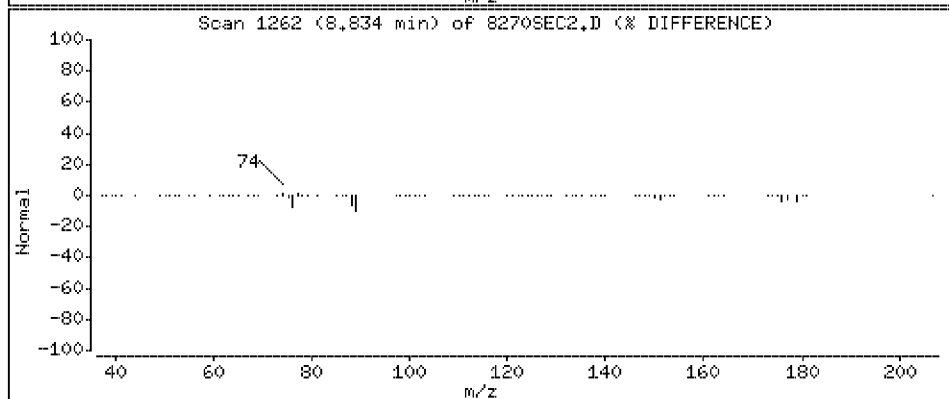
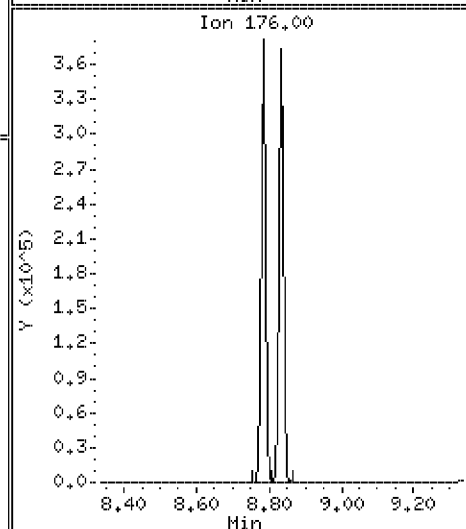
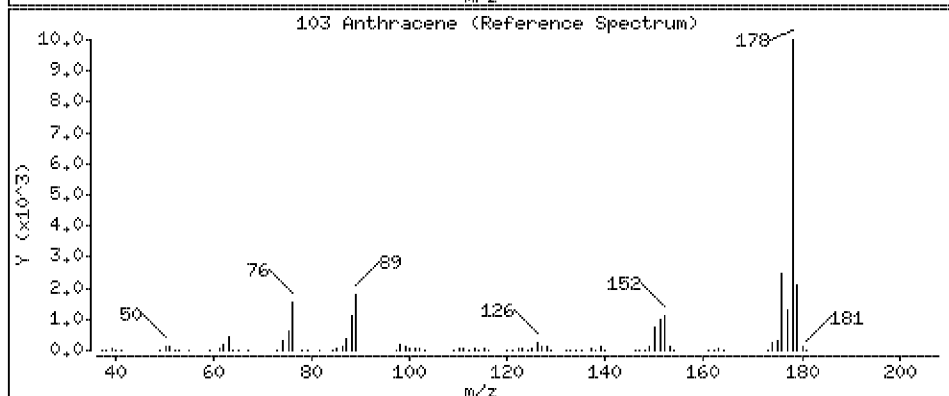
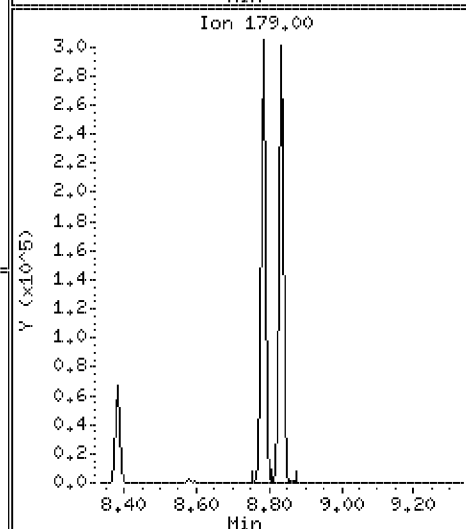
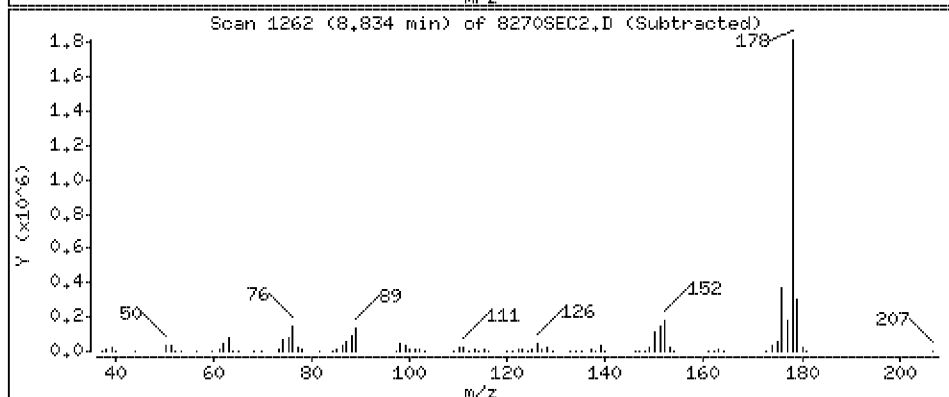
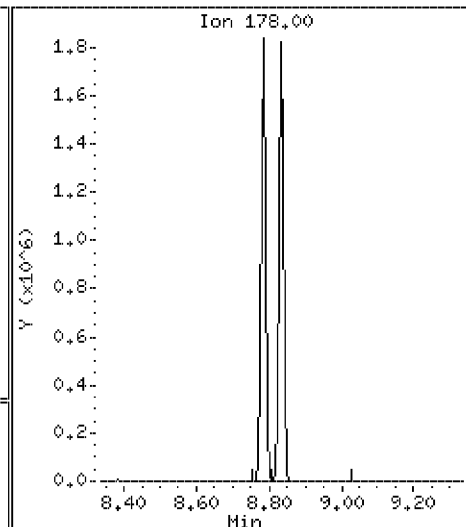
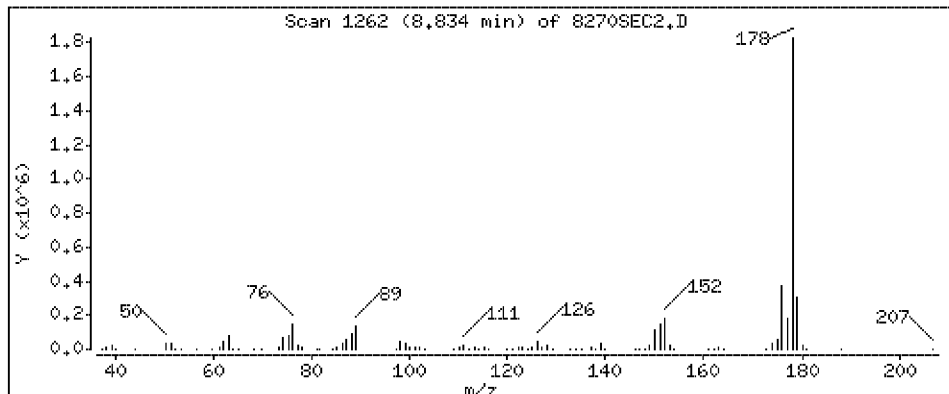
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

103 Anthracene

Concentration: 48.4 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

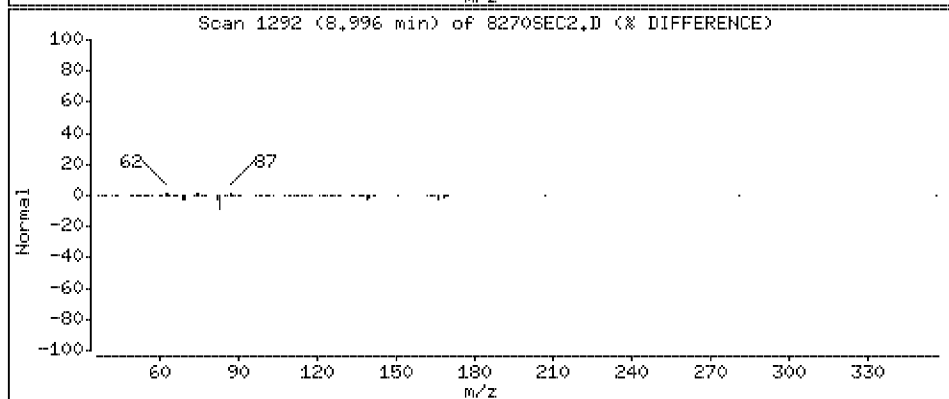
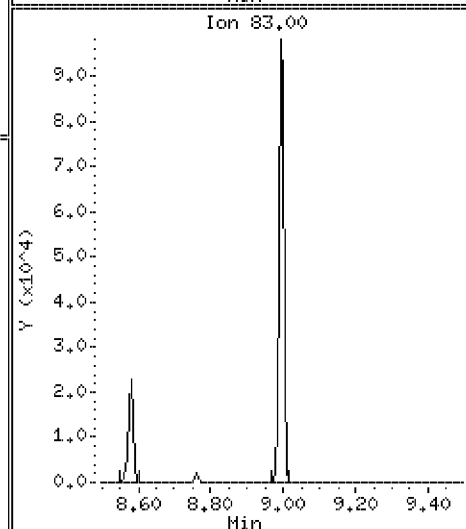
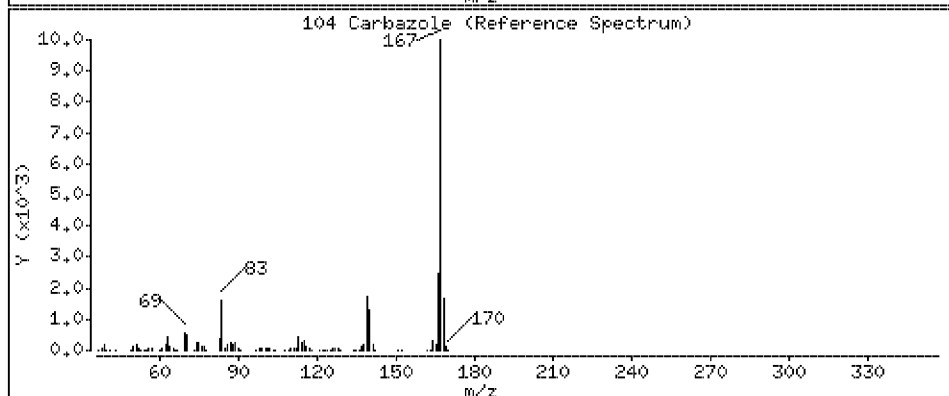
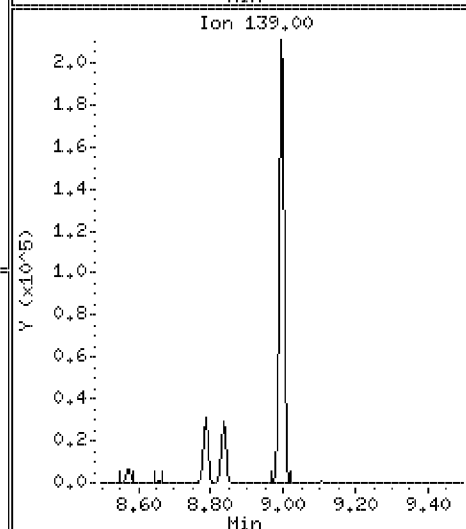
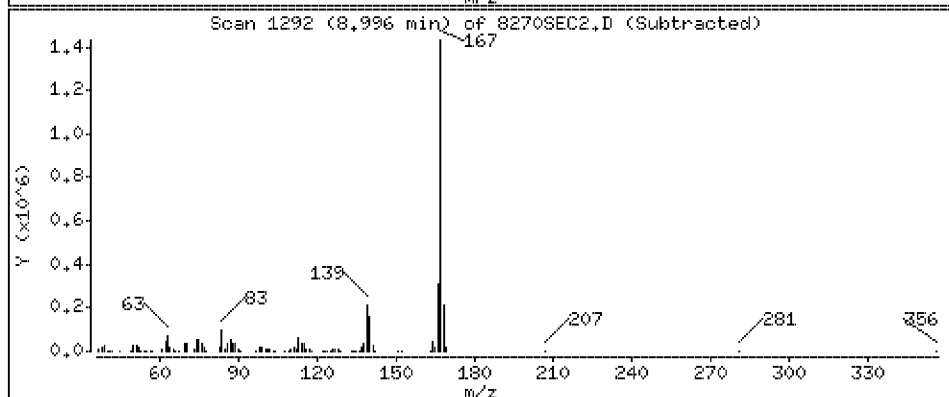
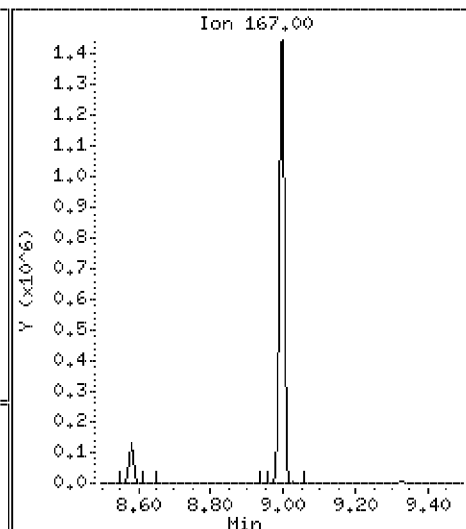
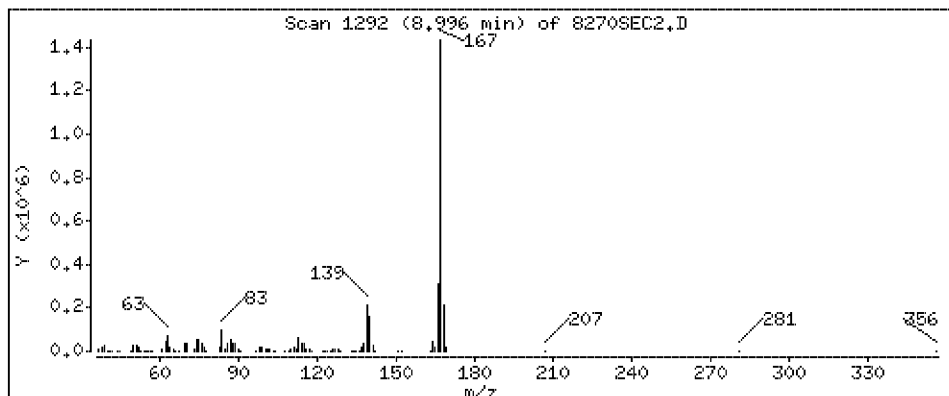
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

104 Carbazole

Concentration: 51.2 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

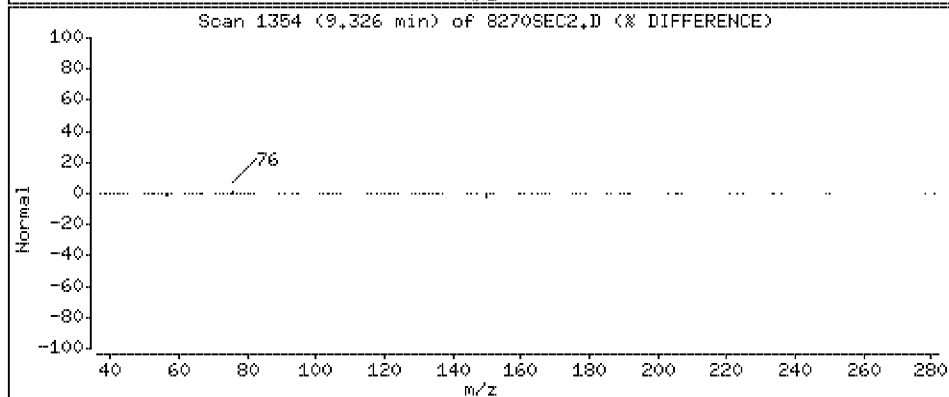
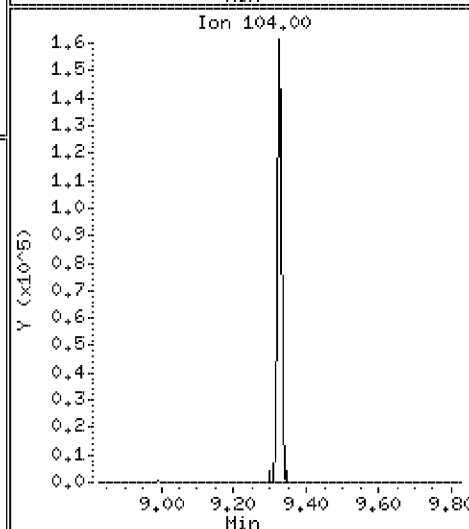
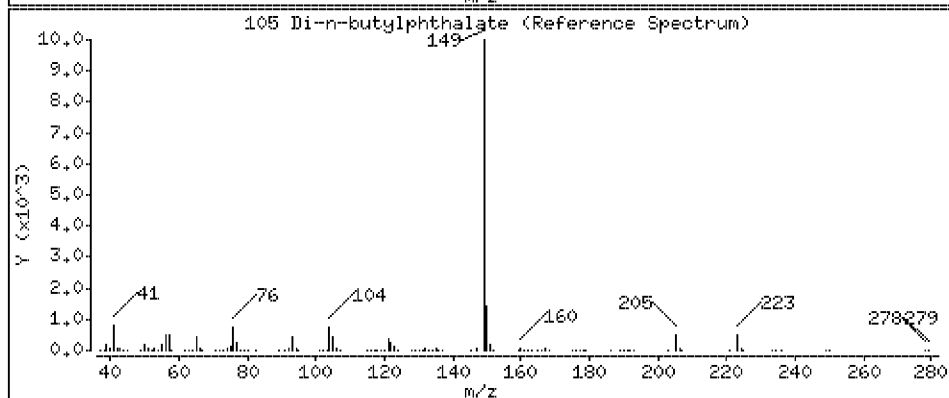
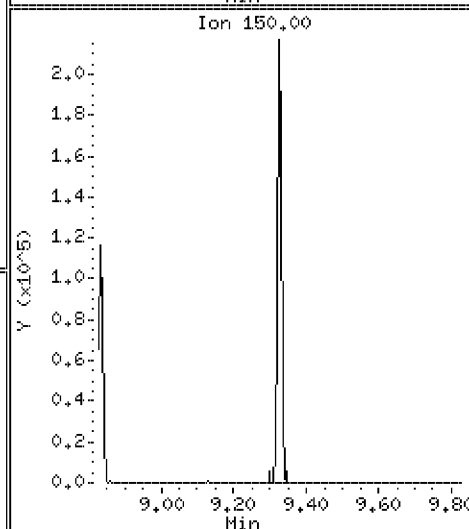
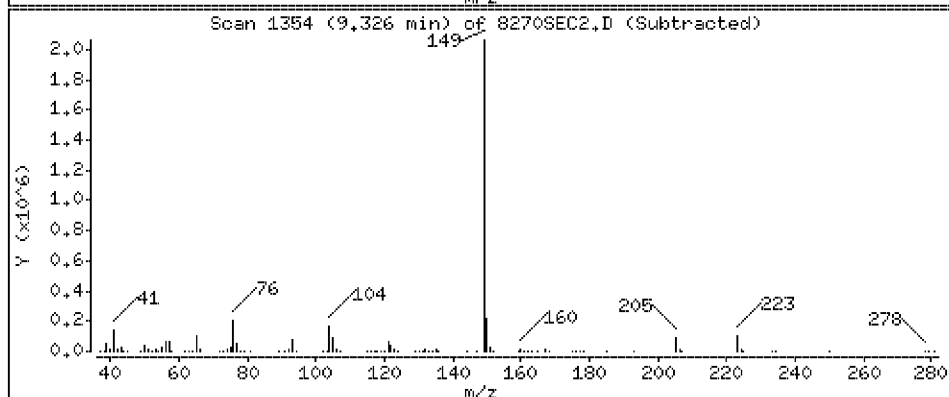
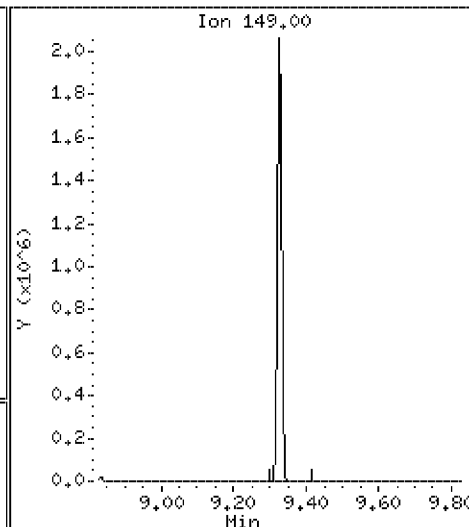
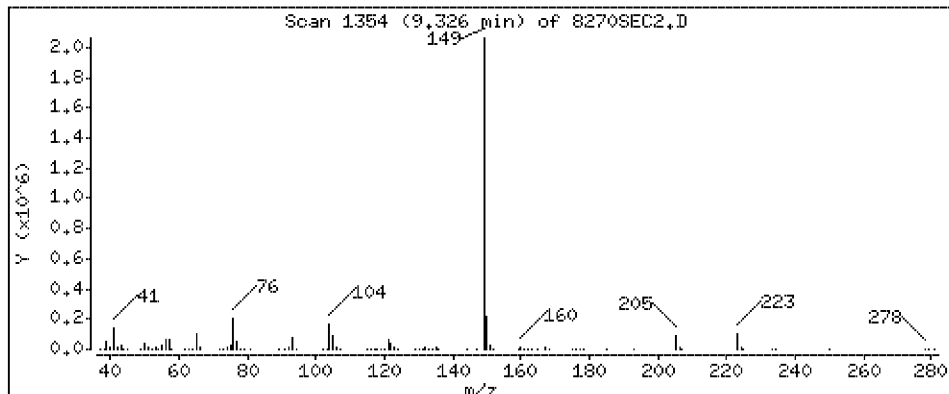
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

105 Di-n-butylphthalate

Concentration: 48.6 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

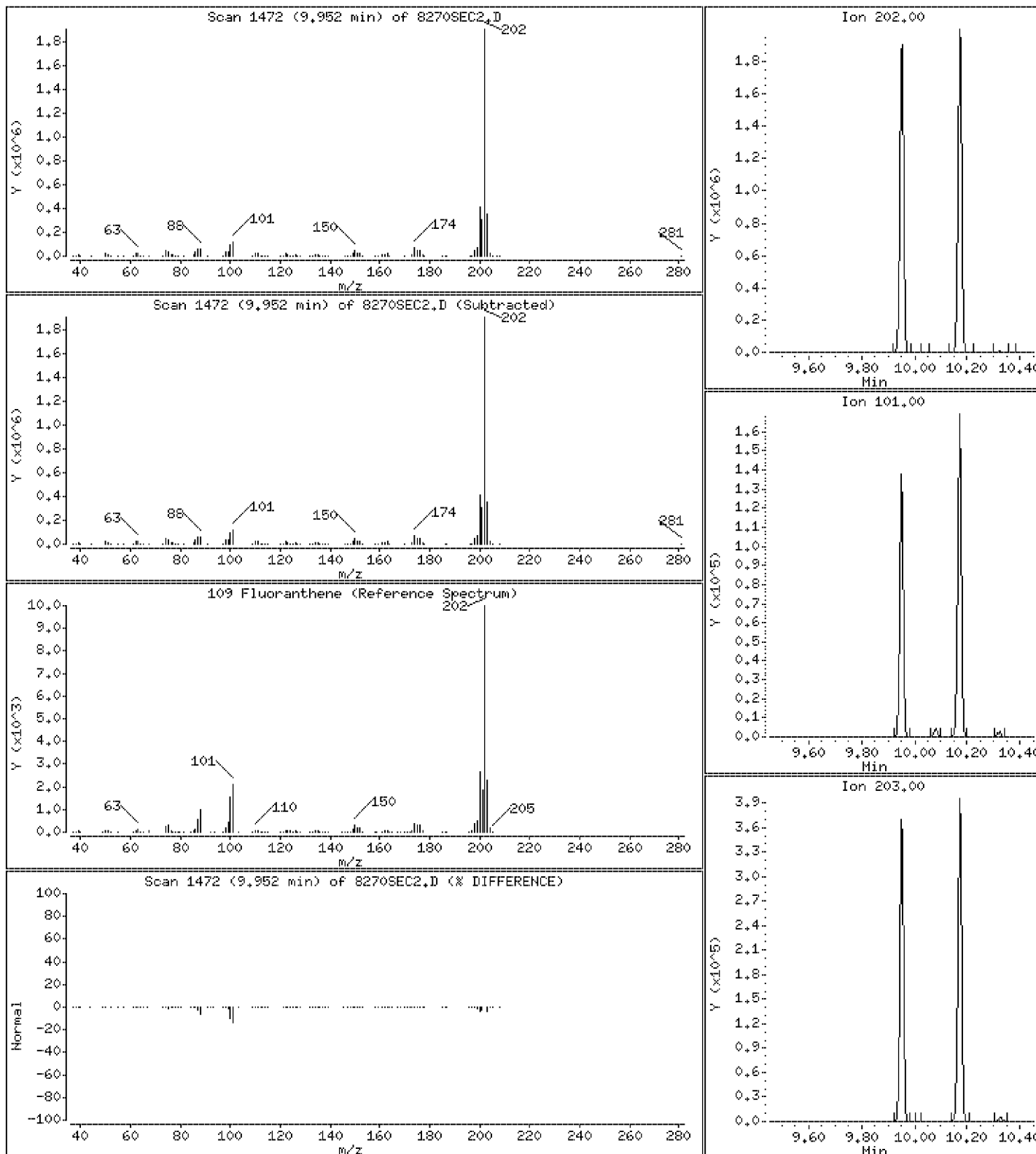
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

109 Fluoranthene

Concentration: 49.2 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

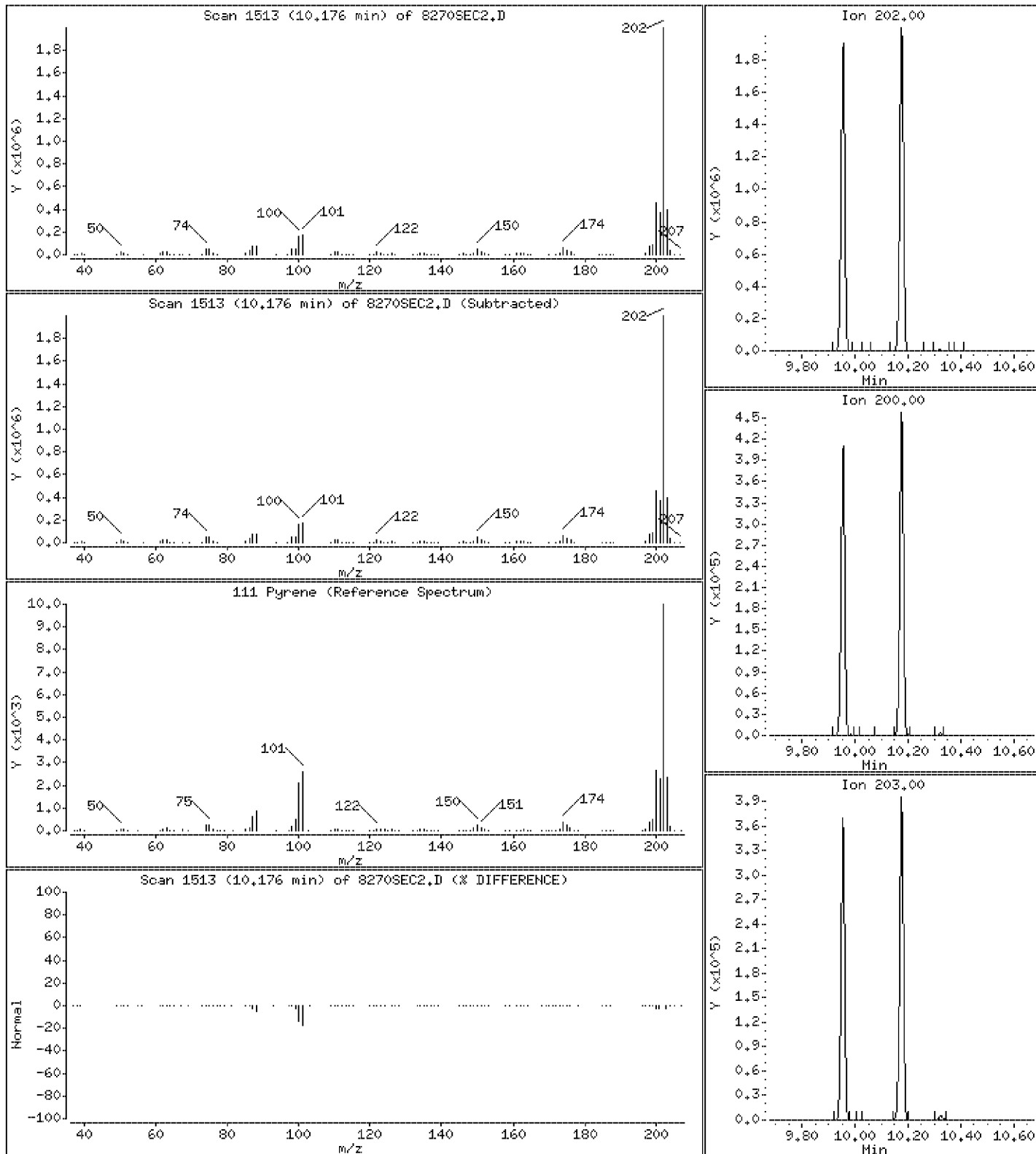
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

111 Pyrene

Concentration: 47.9 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

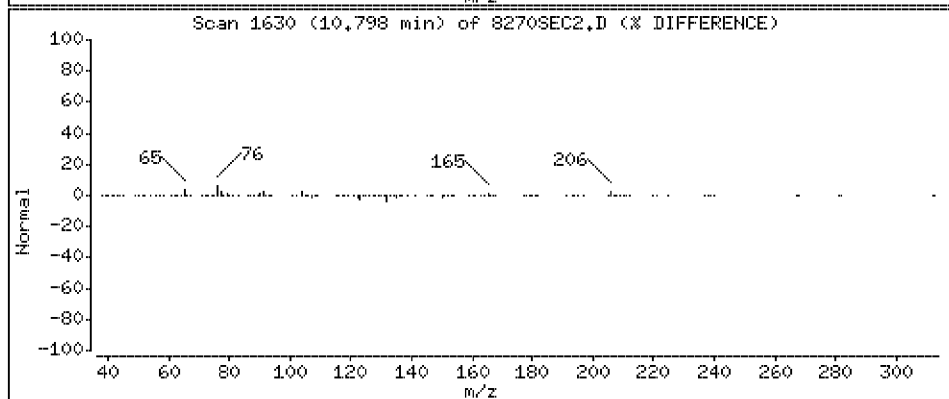
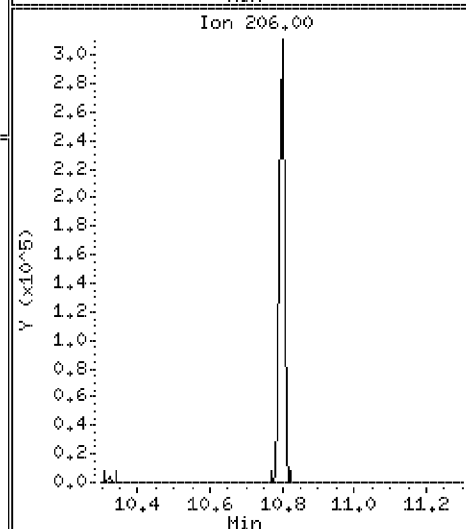
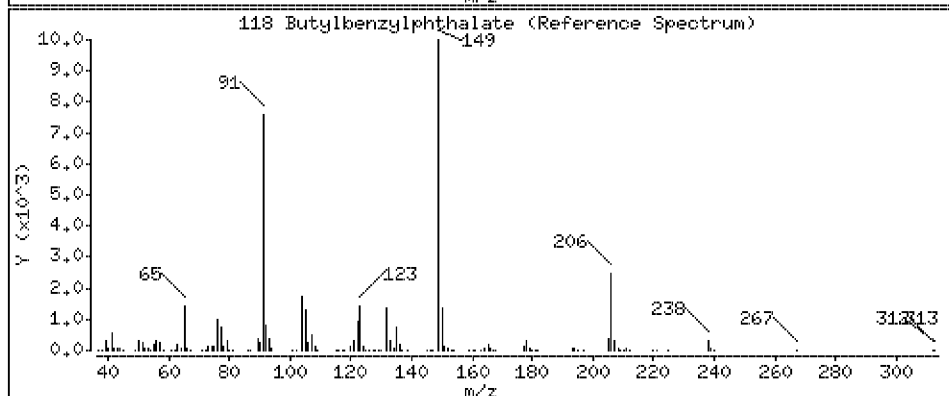
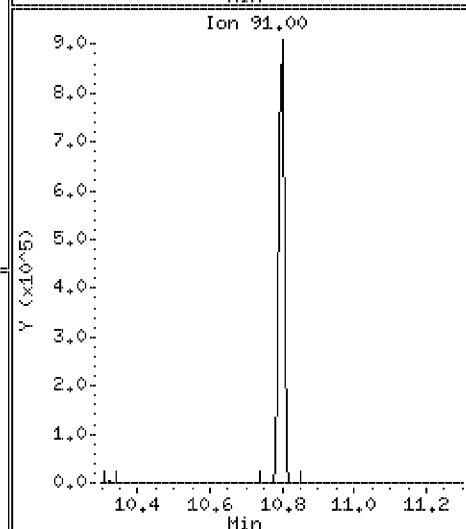
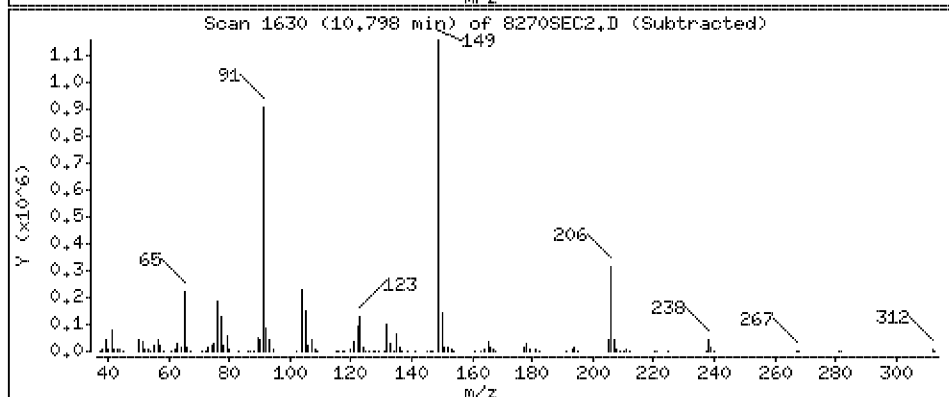
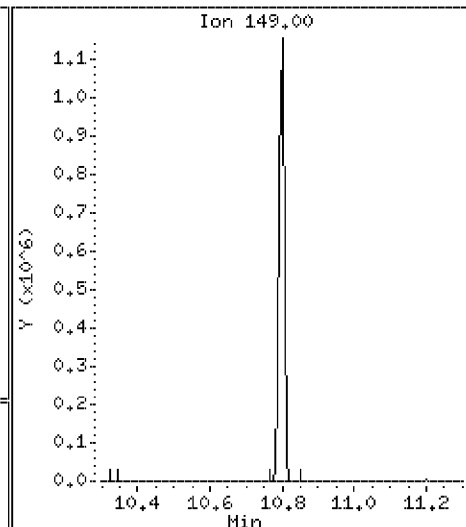
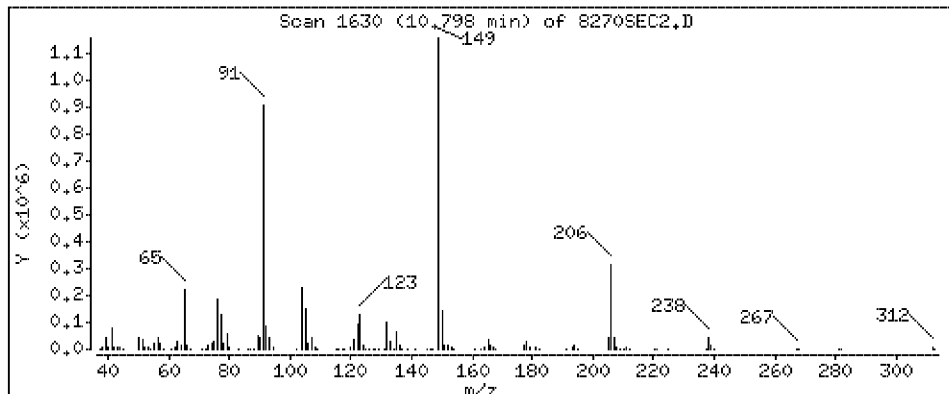
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

118 Butylbenzylphthalate

Concentration: 50.7 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

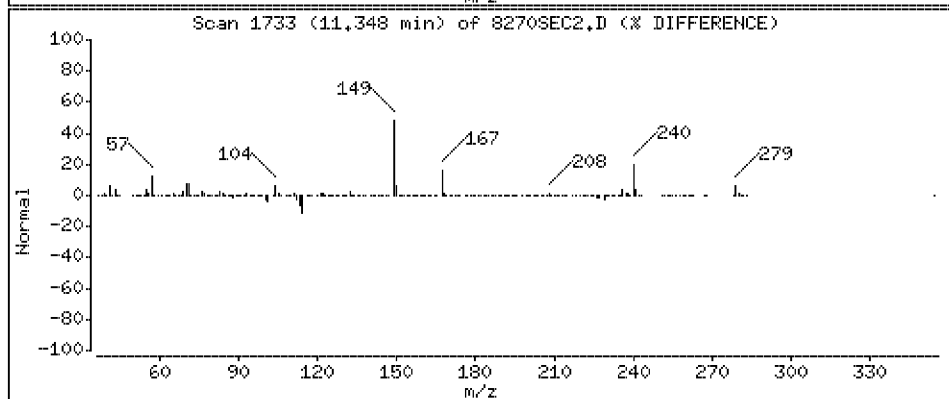
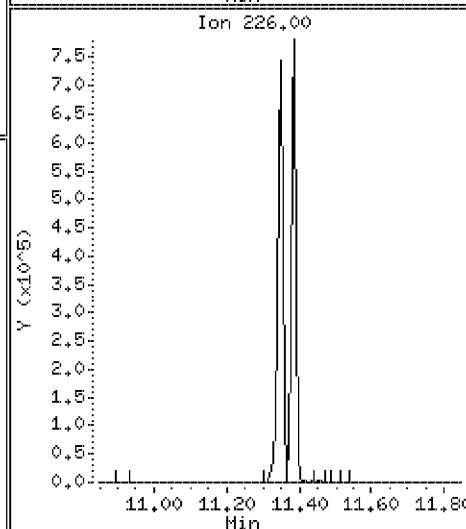
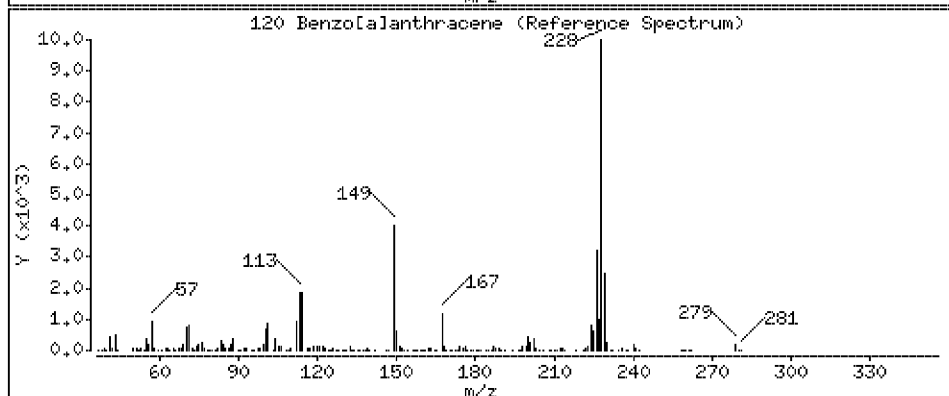
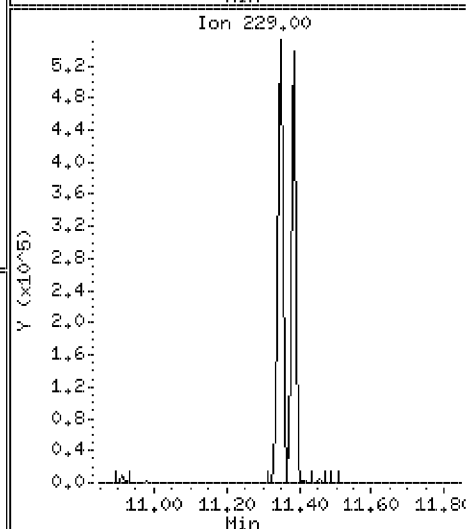
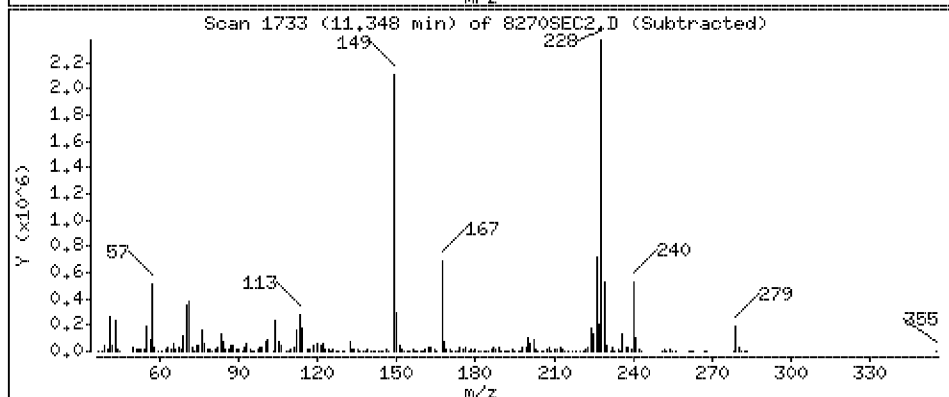
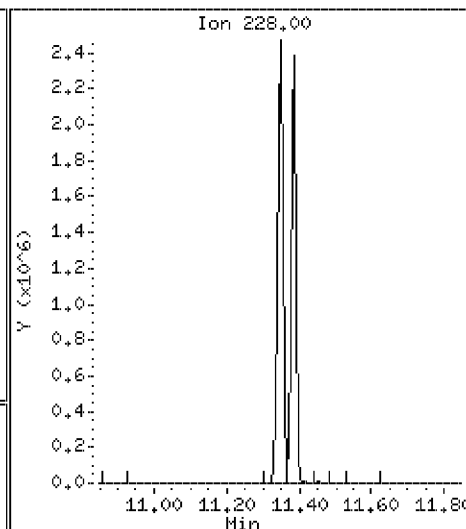
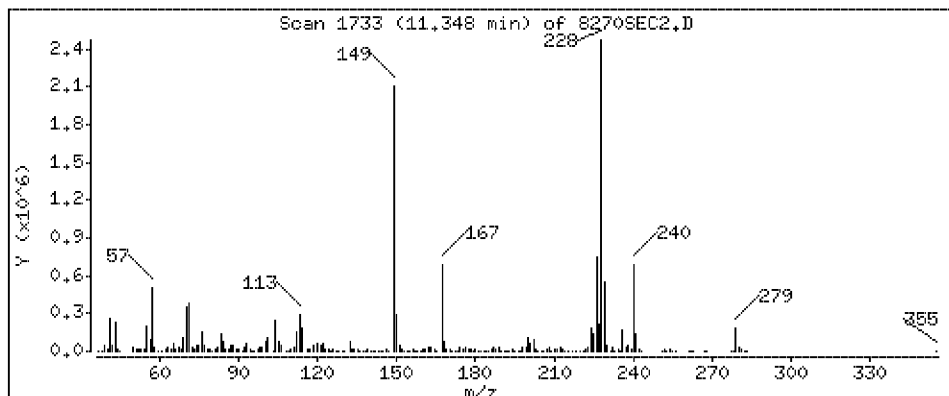
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

120 Benzo[*a*]anthracene

Concentration: 49.8 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

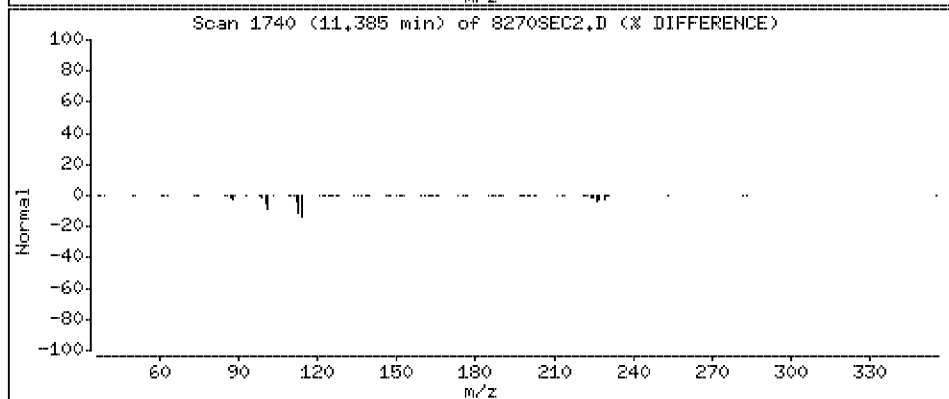
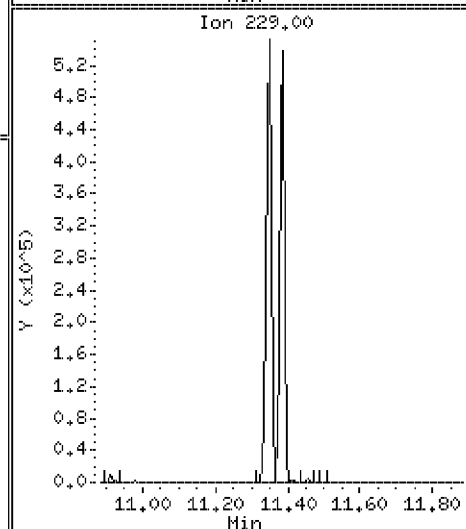
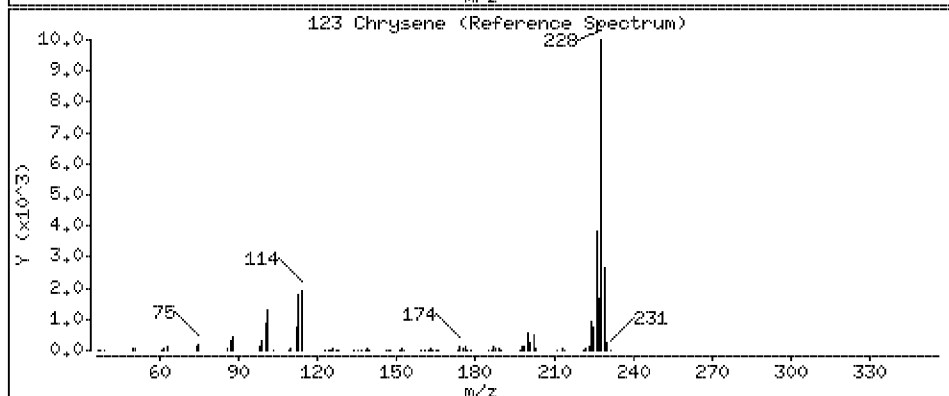
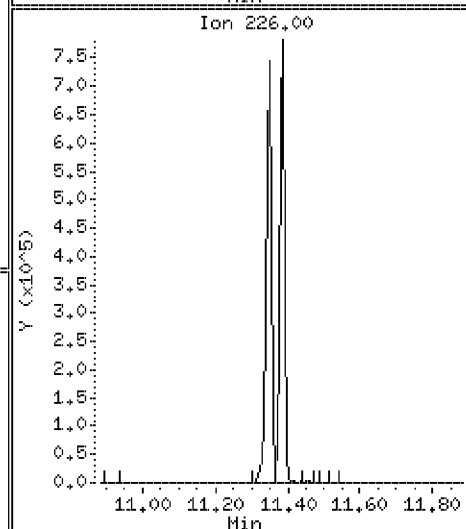
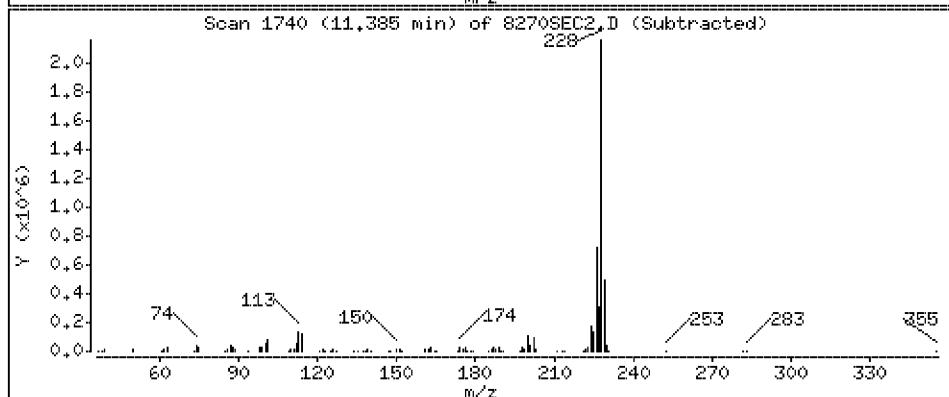
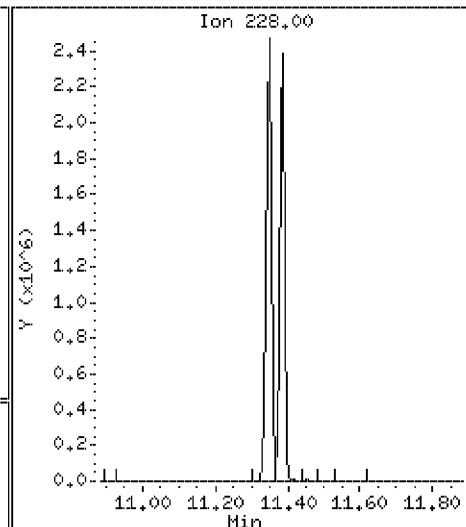
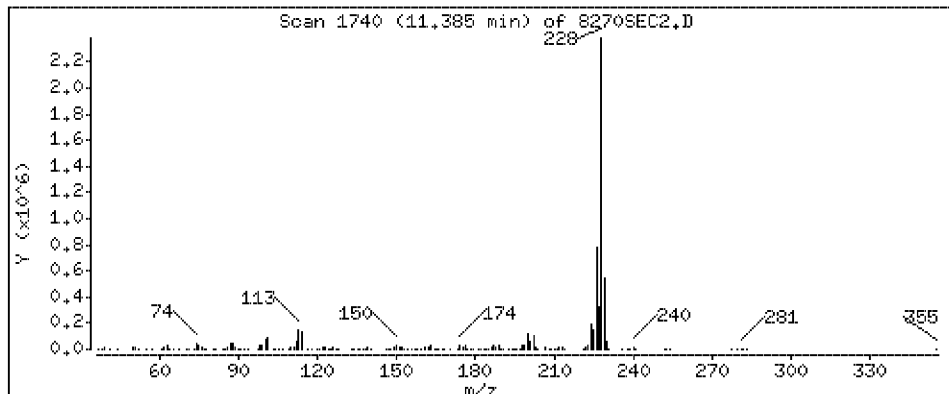
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

123 Chrysene

Concentration: 47.2 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

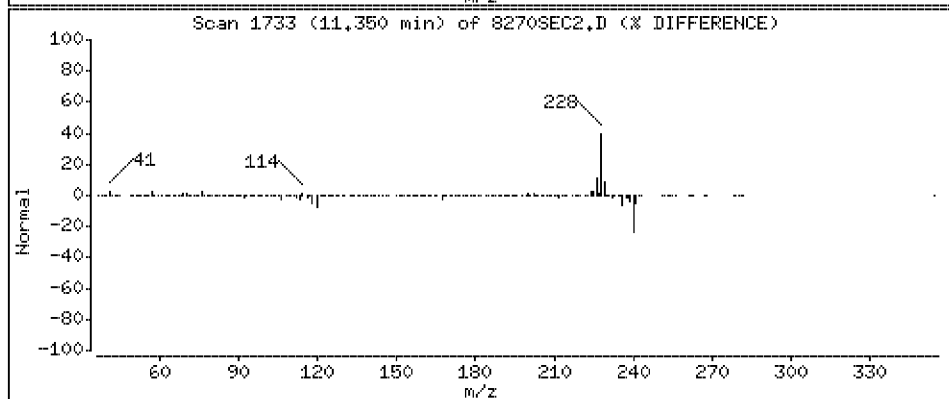
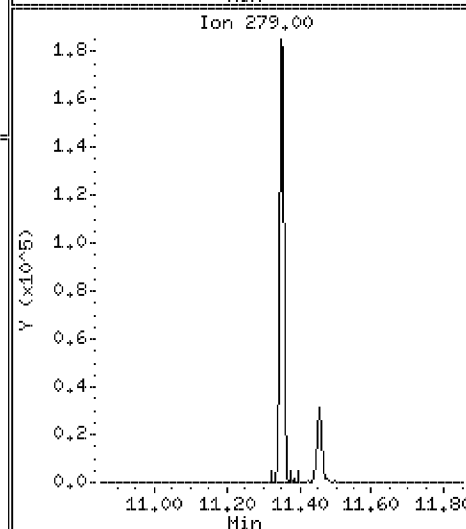
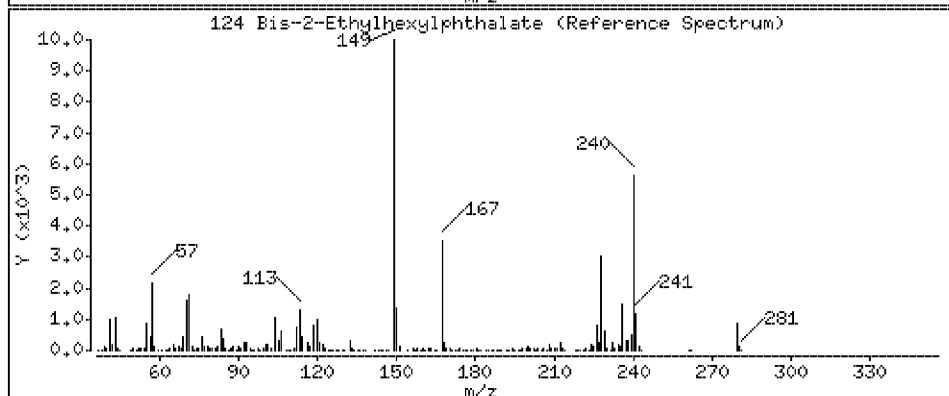
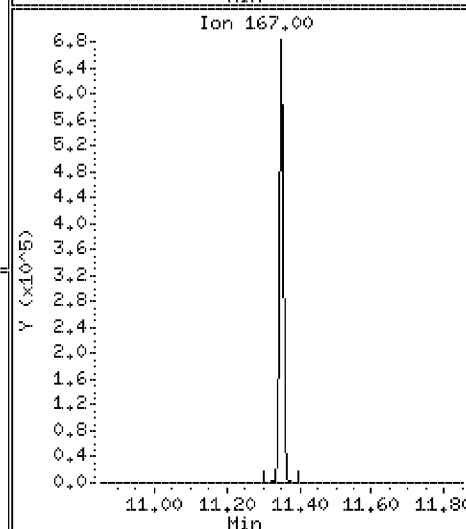
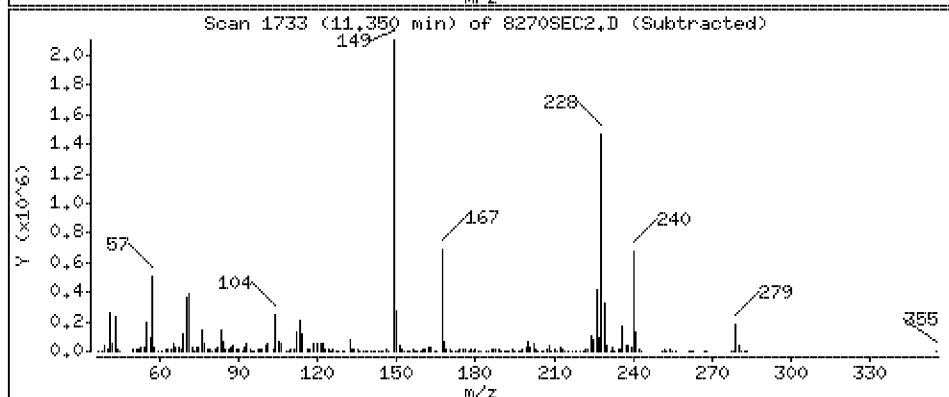
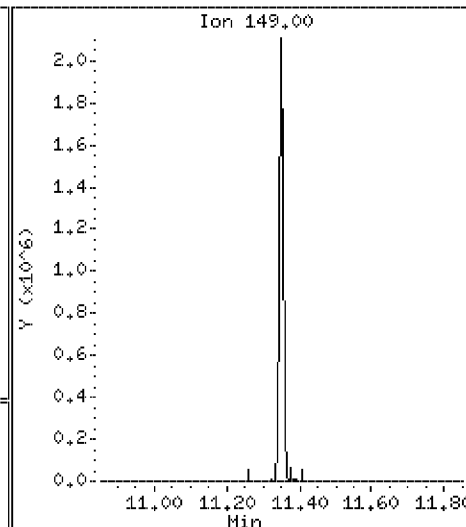
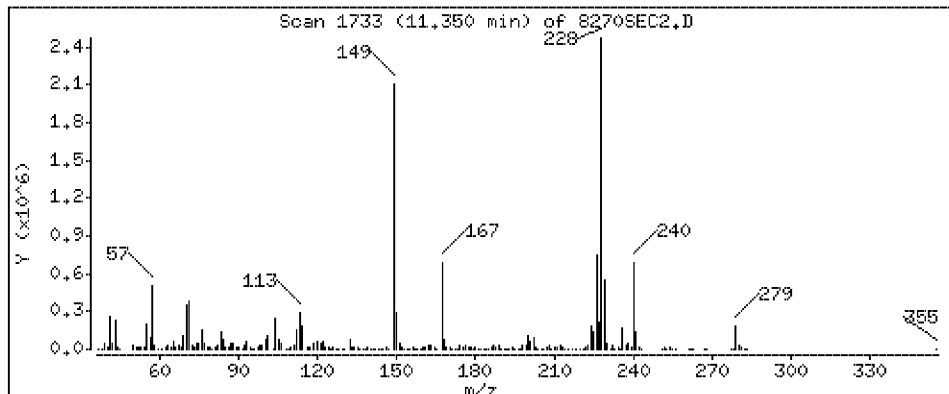
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

124 Bis-2-Ethylhexylphthalate

Concentration: 52.3 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

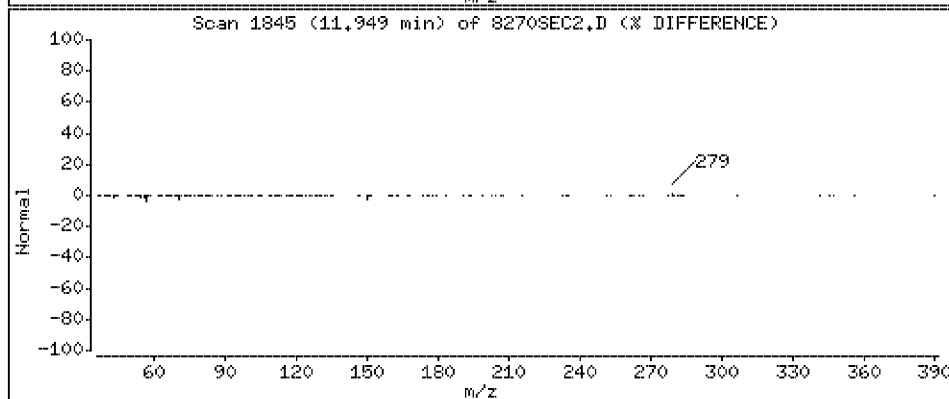
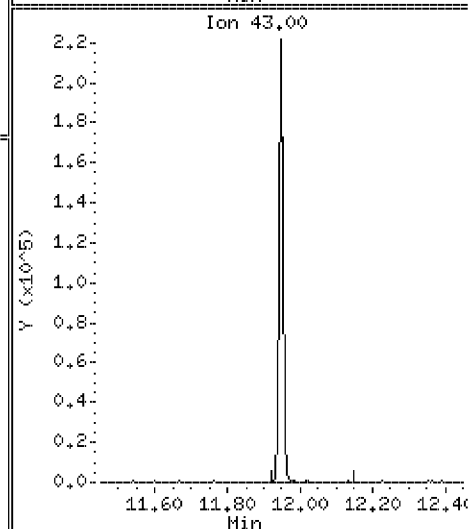
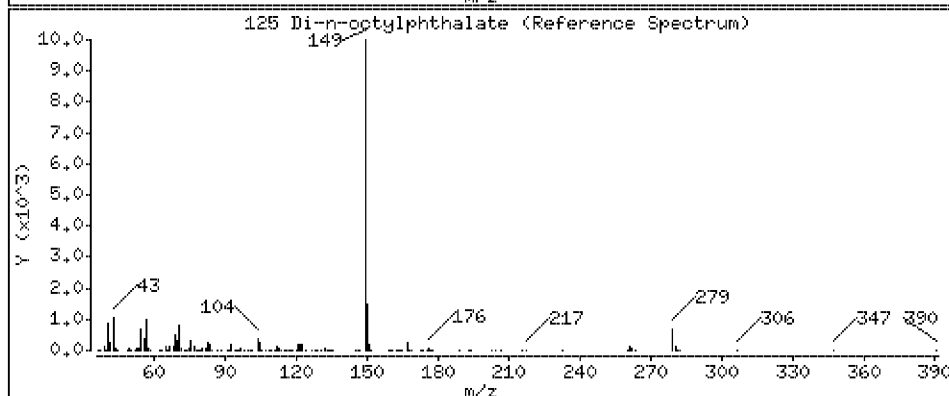
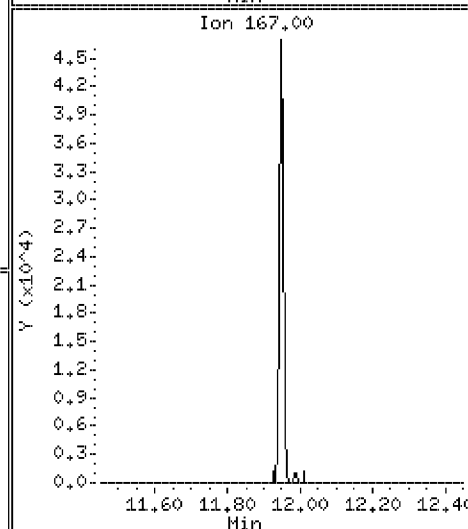
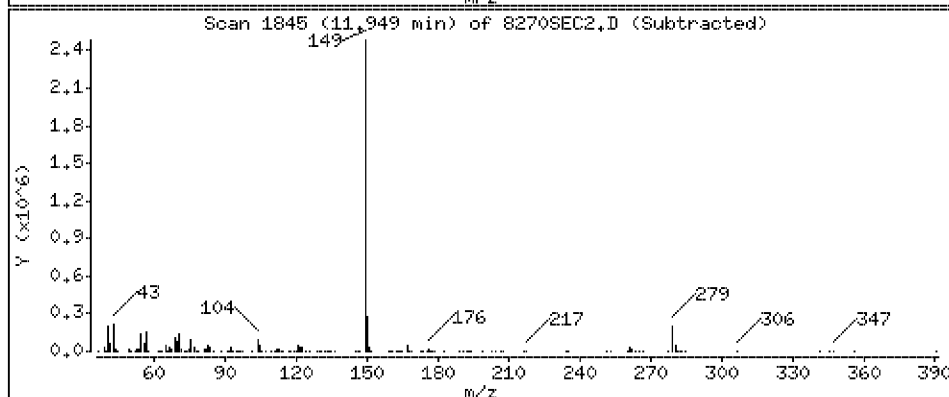
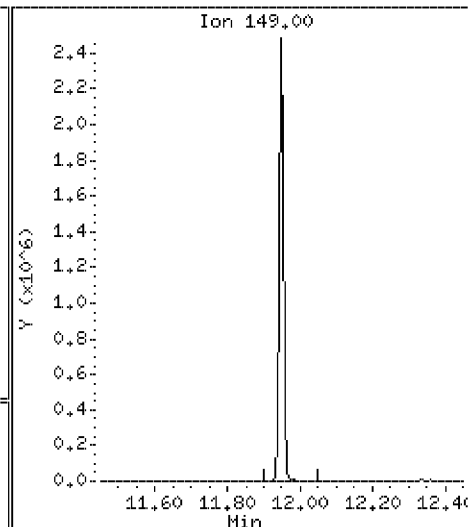
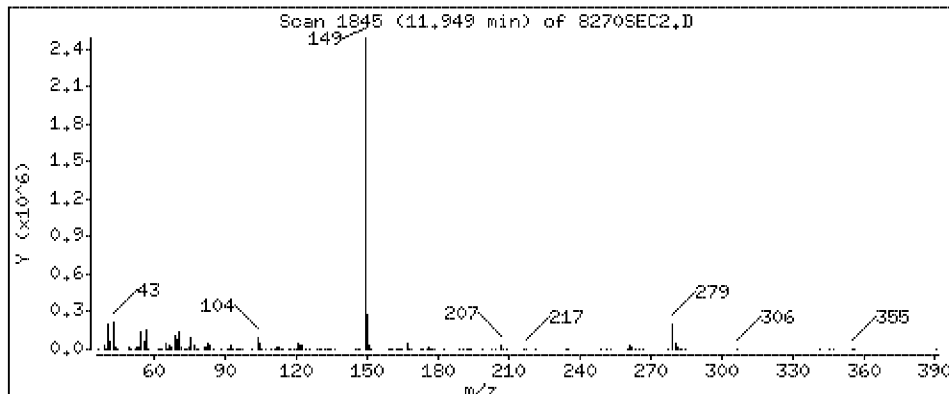
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

125 Di-n-octylphthalate

Concentration: 51.6 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

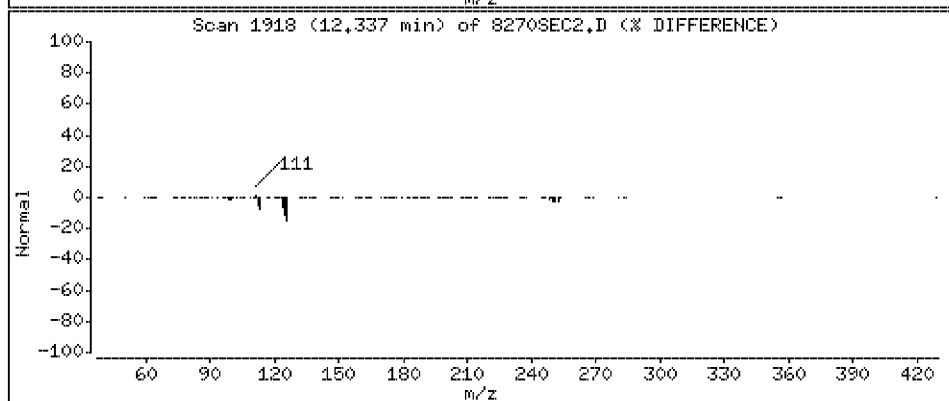
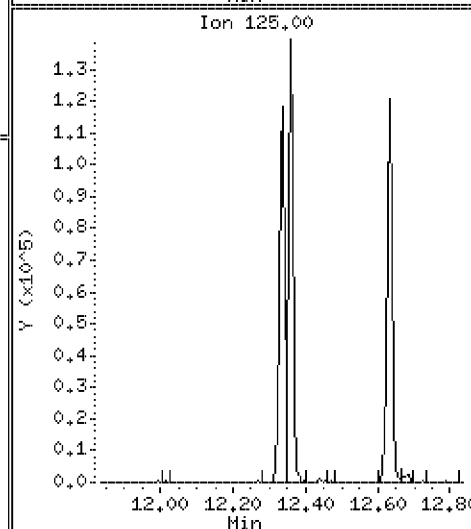
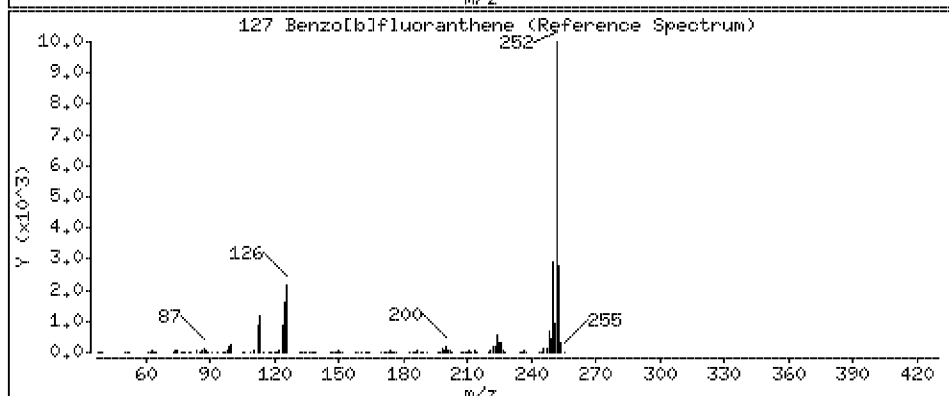
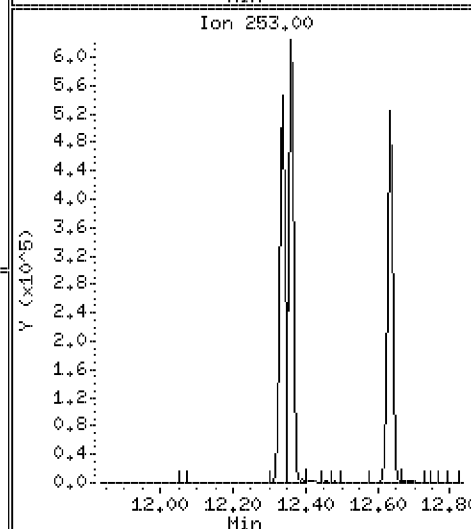
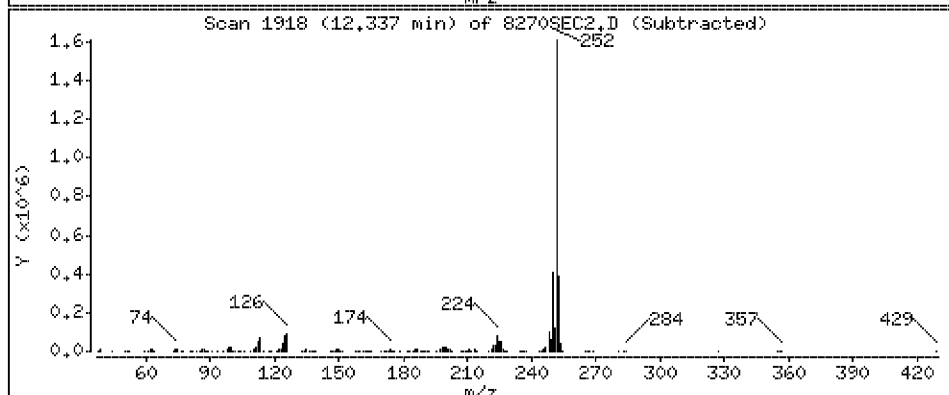
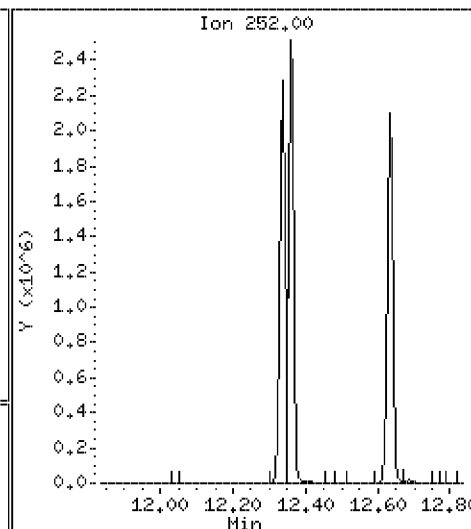
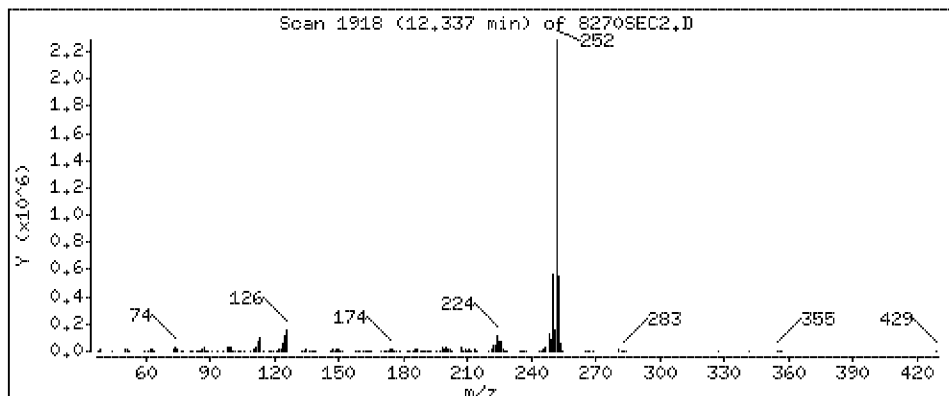
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

127 Benzo[b]fluoranthene

Concentration: 49.1 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

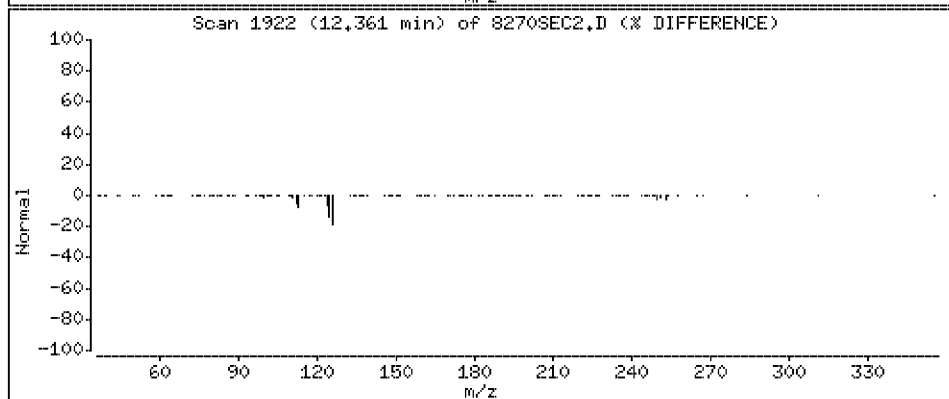
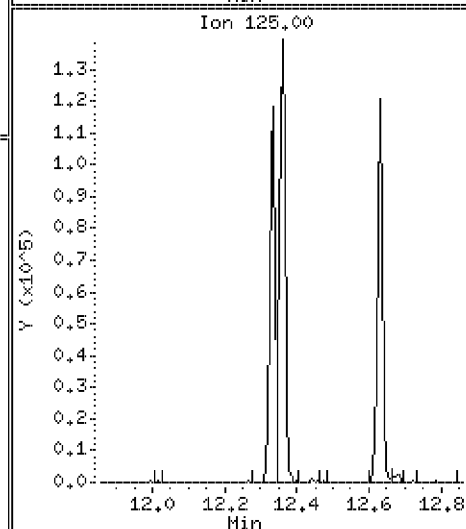
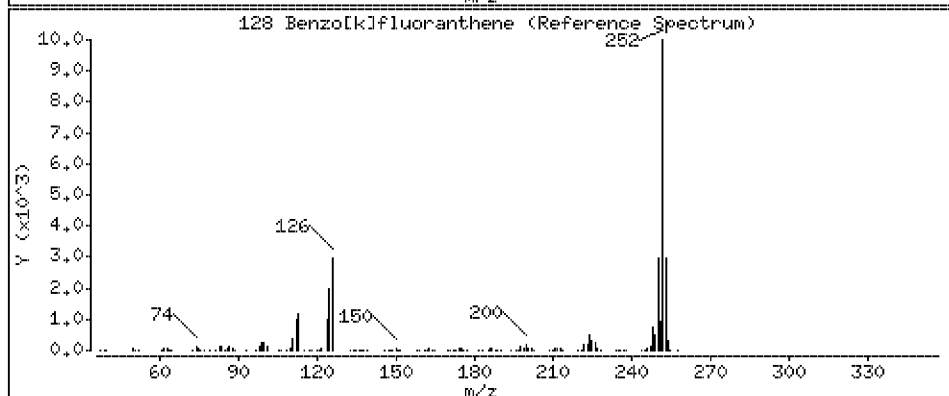
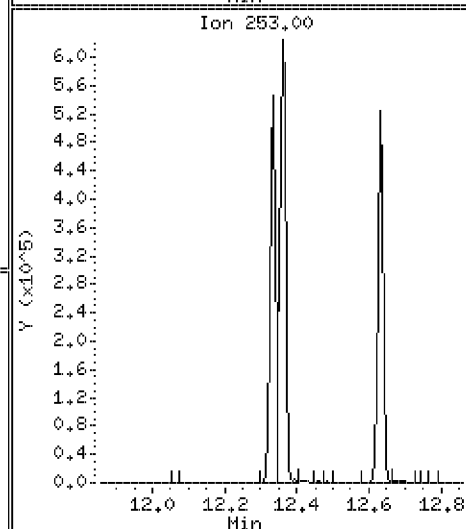
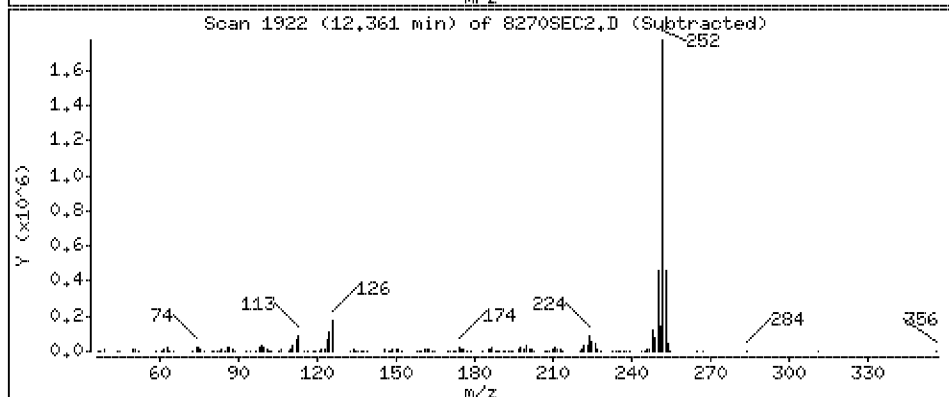
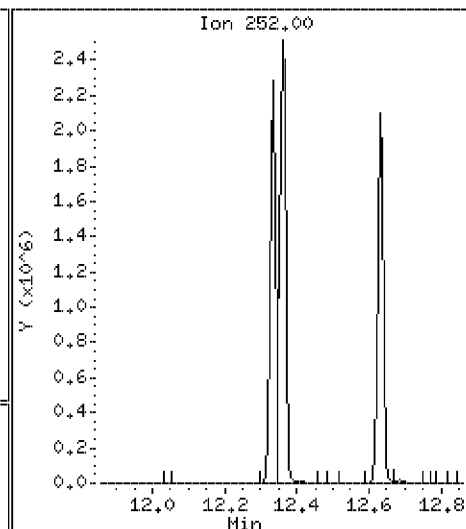
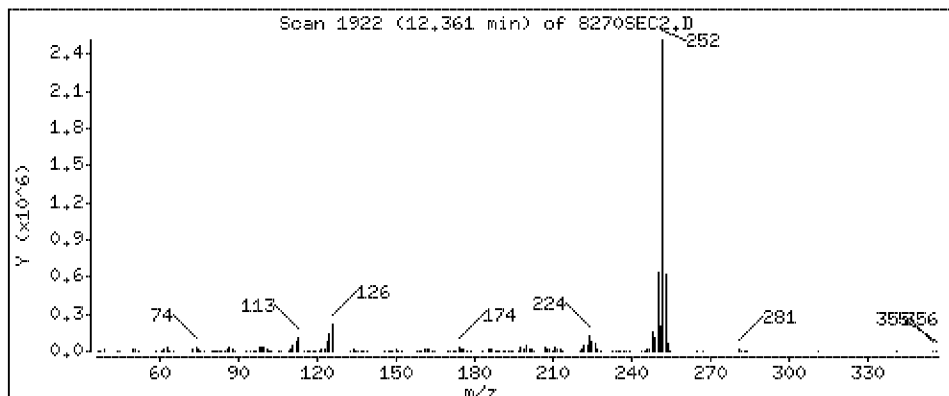
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

128 Benzo[k]fluoranthene

Concentration: 48.8 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

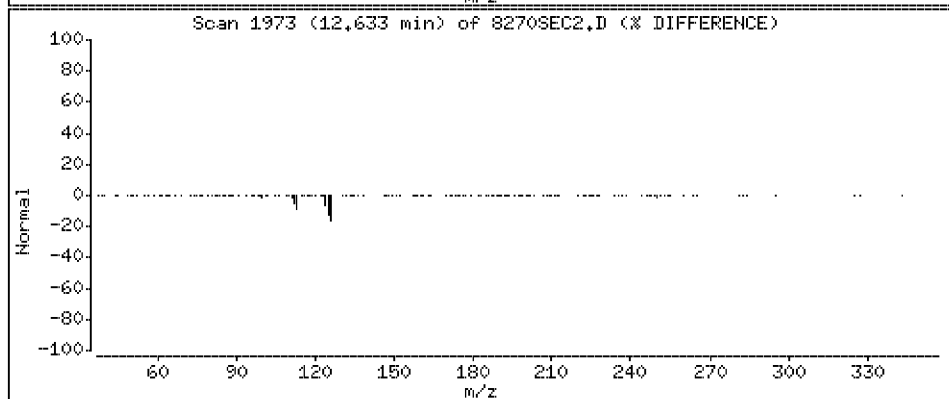
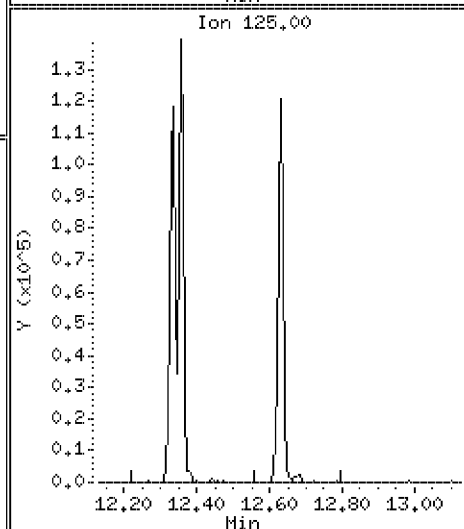
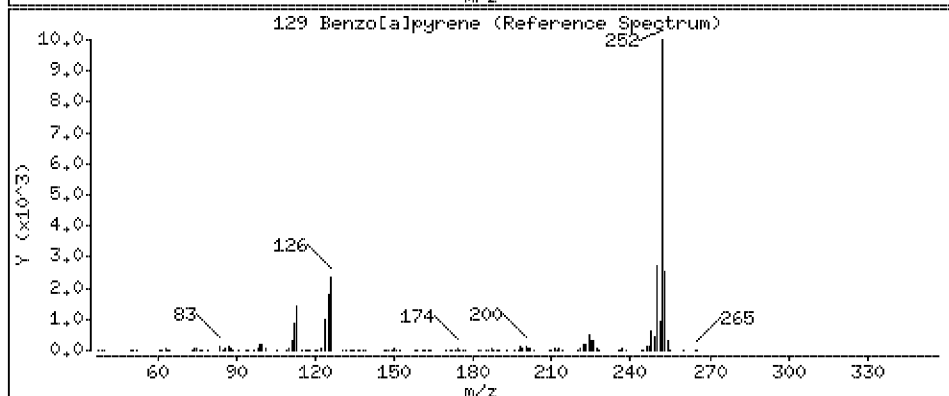
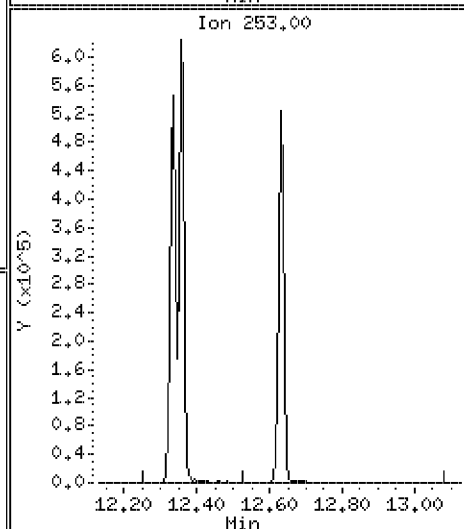
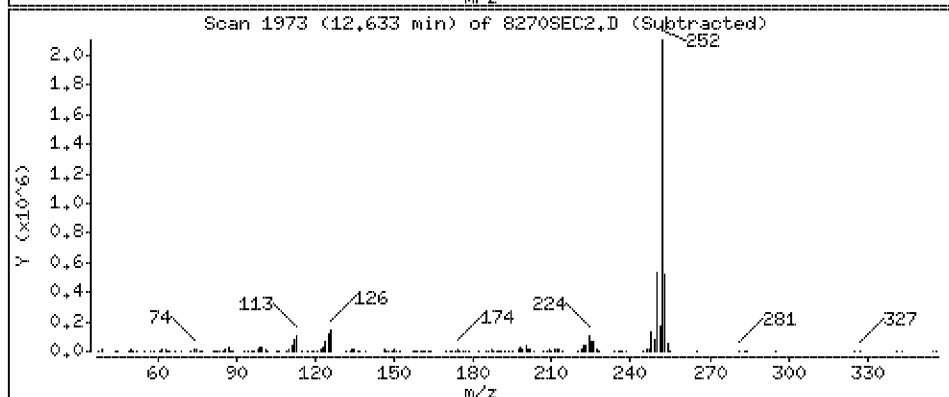
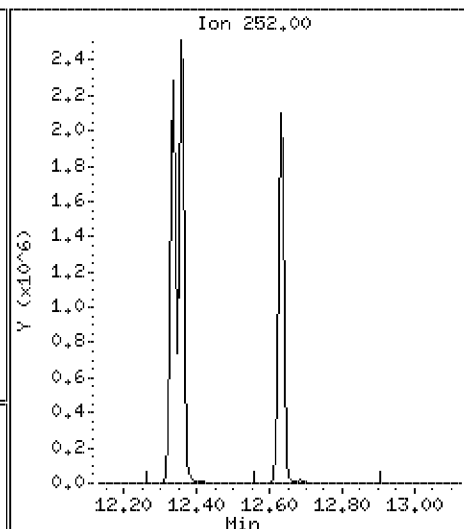
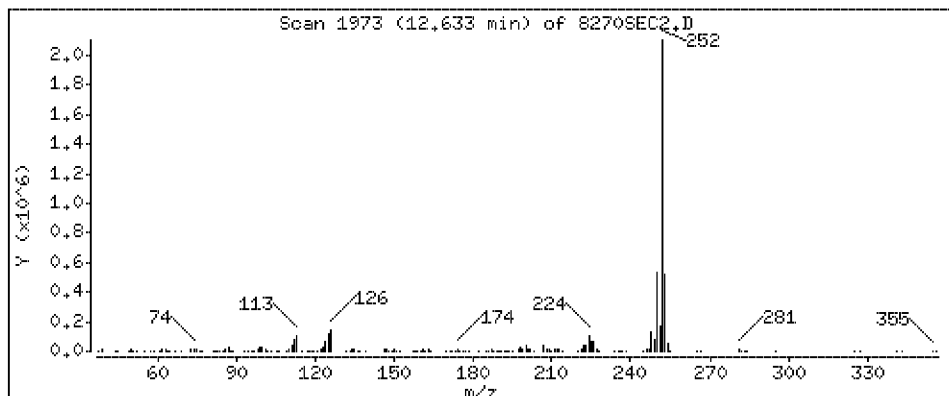
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

129 Benzo[*a*]pyrene

Concentration: 48.4 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

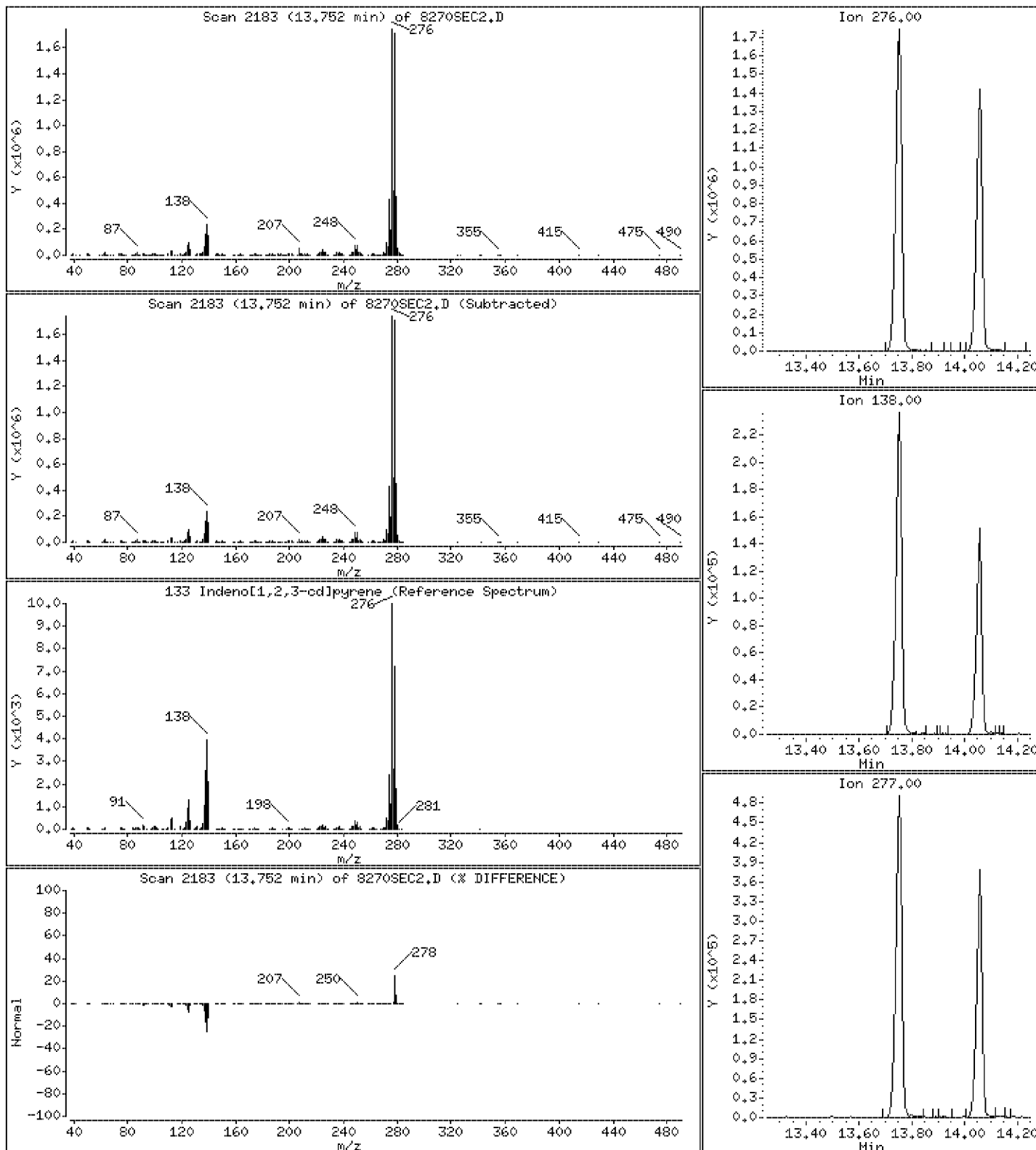
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

133 Indeno[1,2,3-cd]pyrene

Concentration: 48.5 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

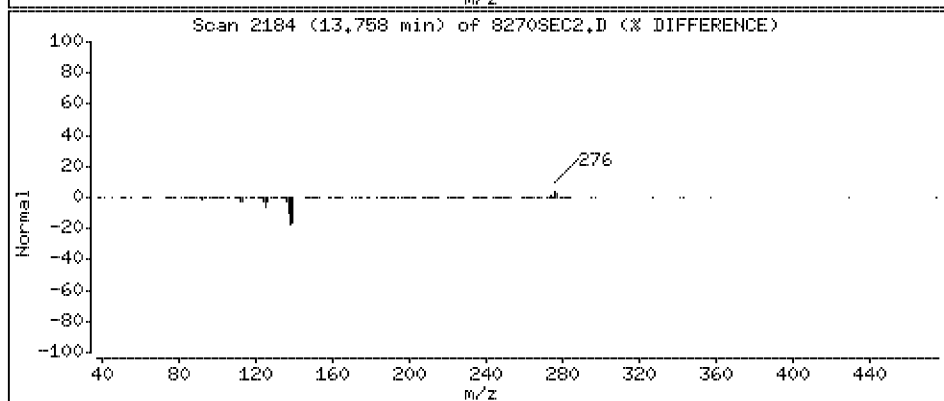
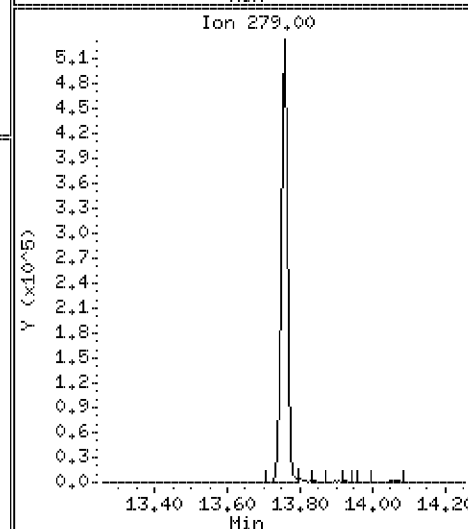
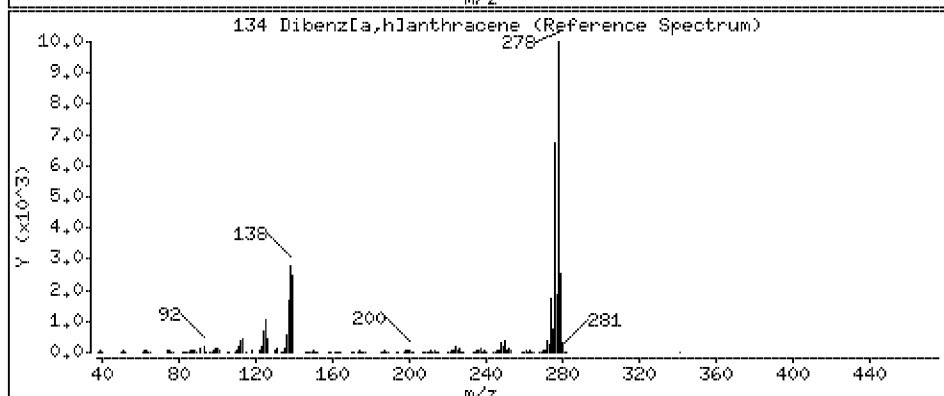
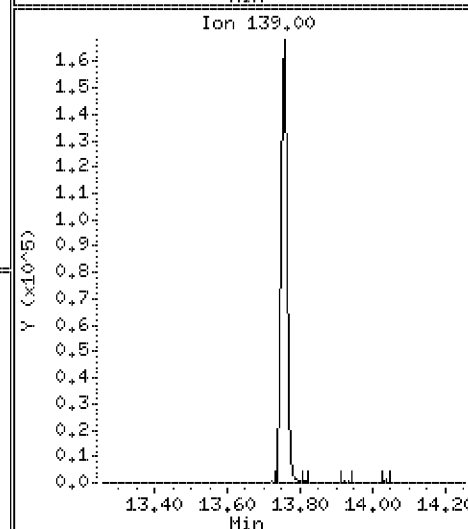
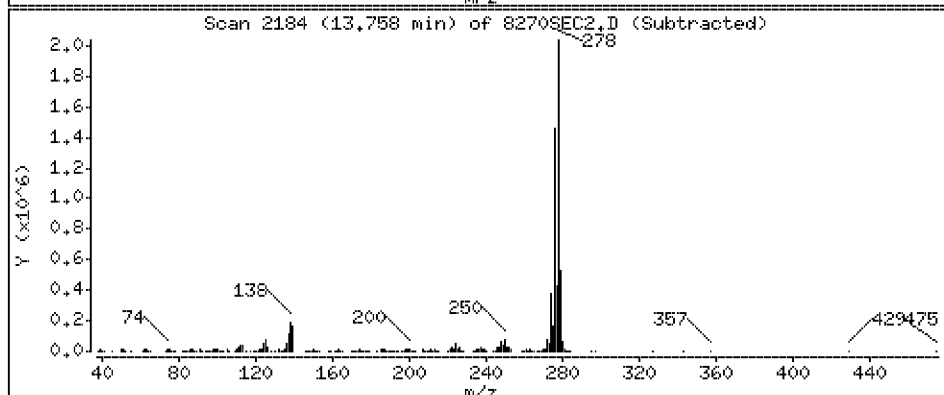
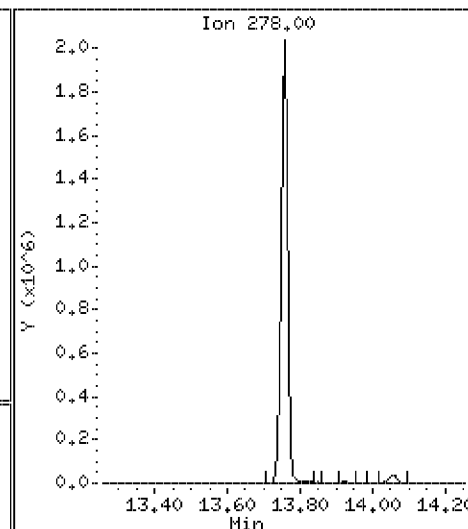
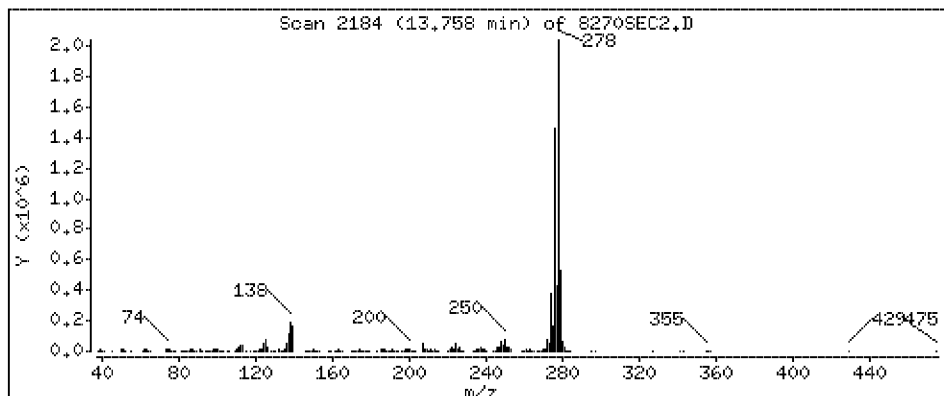
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

134 Dibenz[a,h]anthracene

Concentration: 49.4 ug/l



Date : 23-APR-2012 13:33

Client ID: 8270SEC

Instrument: smsd03.i

Sample Info: 45872

Purge Volume: 1000.0

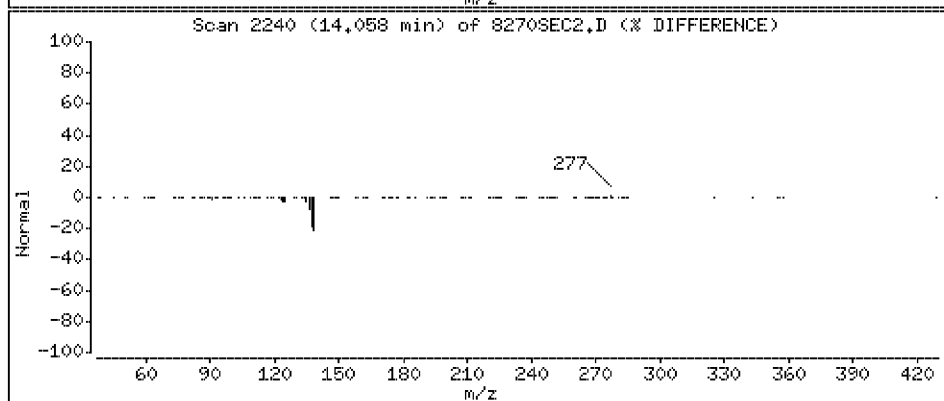
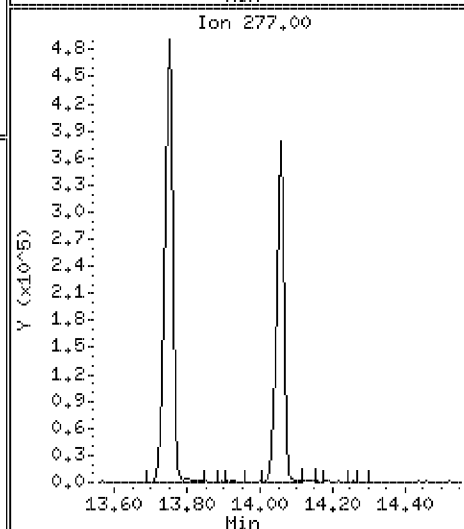
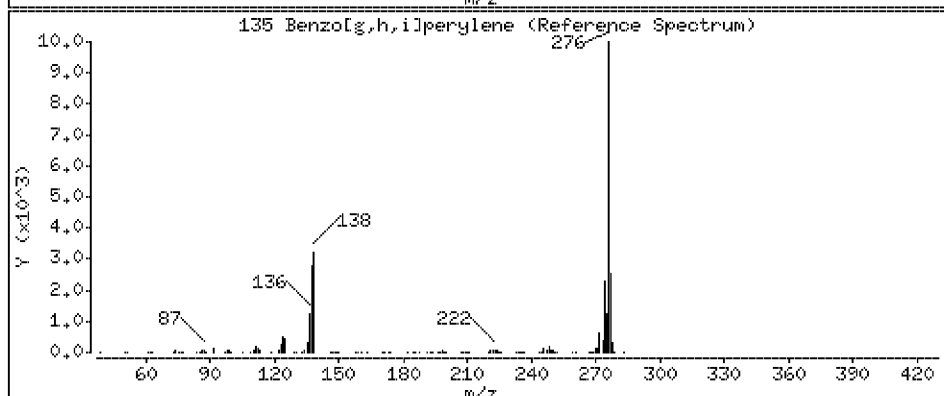
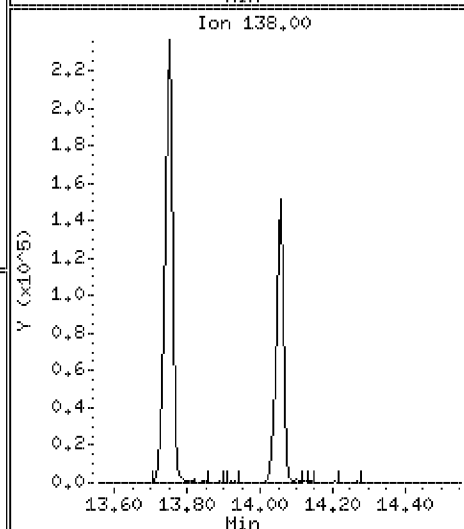
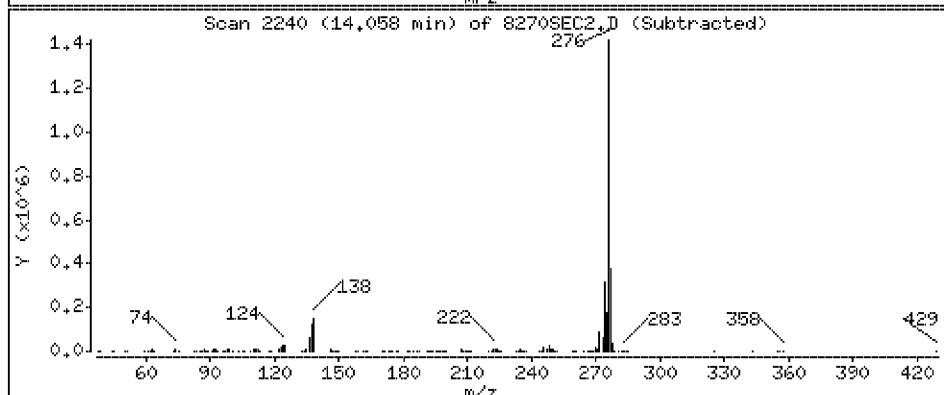
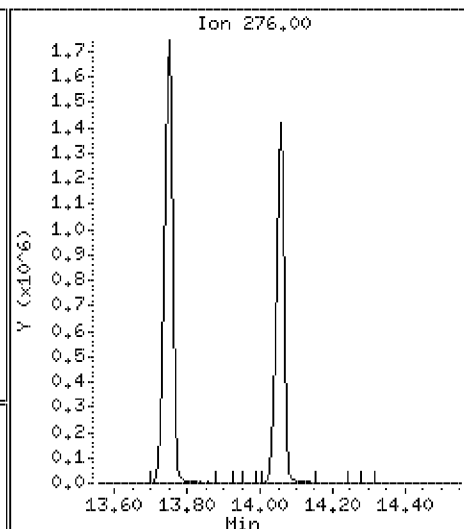
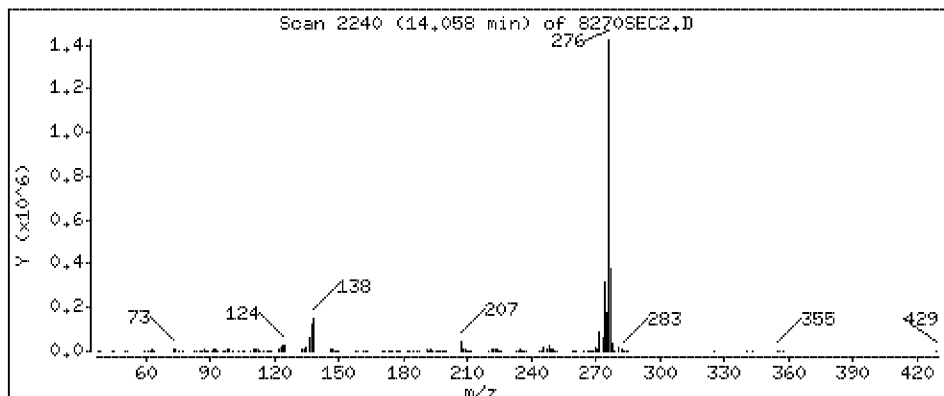
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

135 Benzo[g,h,i]perylene

Concentration: 48.1 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3042312.b\BSCAL7.D
 Lab Smp Id: 45933 Client Smp ID: BSCAL7
 Inj Date : 23-APR-2012 13:56 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 45933
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270bcs.m
 Meth Date : 25-Apr-2012 09:57 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 13:56 Cal File: BSCAL7.D
 Als bottle: 10 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: BZSOWcal.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
9 Benzaldehyde CAS #: 100-52-7									
4.077	4.161	(0.917)	77	915284	100.000	108	70.00- 130.00	100.00(AQ)	
4.077	4.161	(0.917)	106	729400			0.00- 30.92	79.69	
4.076	4.161	(0.917)	51	321699			231.65- 291.65	35.15	
* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.447	4.448	(1.000)	152	278178	40.0000		80.00- 120.00	100.00	
4.446	4.448	(1.000)	115	176607			32.20- 92.20	63.49	
4.447	4.448	(1.000)	150	423466			139.77- 199.77	152.23	
25 Acetophenone CAS #: 98-86-2									
4.801	4.807	(0.856)	105	1522162	100.000	114	70.00- 130.00	100.00(A)	
4.800	4.807	(0.856)	77	1455957			4410.01-4470.01	95.65	
4.800	4.807	(0.856)	51	376287			1262.06-1322.06	24.72	
* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.607	5.610	(1.000)	136	931008	40.0000		80.00- 120.00	100.00	
5.607	5.610	(1.000)	68	52964			0.00- 35.51	5.69	
50 Caprolactam CAS #: 105-60-2									
6.016	6.158	(1.073)	55	288615	100.000	103	70.00- 130.00	100.00(AQ)	
6.018	6.158	(1.073)	113	295383			106.52- 166.52	102.34	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
50 Caprolactam (continued)								
6.017	6.158	(1.073)	85	224140			55.05- 115.05	77.66

61 1,1-Biphenyl								
						CAS #: 92-52-4		
6.742	6.642	(0.923)	154	2811365	100.000	106	70.00- 130.00	100.00(AQ)
6.741	6.642	(0.923)	76	392940			1762.39-1822.39	13.98
6.740	6.642	(0.923)	51	184172			1618.22-1678.22	6.55

* 70 Acenaphthene-d10								
						CAS #: 15067-26-2		
7.303	7.305	(1.000)	164	665347	40.0000		80.00- 120.00	100.00
7.303	7.305	(1.000)	162	629917			64.73- 124.73	94.67
7.303	7.305	(1.000)	160	289274			12.46- 72.46	43.48

95 Atrazine								
						CAS #: 1912-24-9		
8.485	8.479	(0.969)	200	961090	100.000	112	80.00- 120.00	100.00(AQ)
8.483	8.479	(0.969)	58	233725			0.00- 52.18	24.32
8.485	8.479	(0.969)	215	517385			22.24- 82.24	53.83

* 100 Phenanthrene-d10								
						CAS #: 1517-22-2		
8.758	8.761	(1.000)	188	1280870	40.0000		80.00- 120.00	100.00
8.757	8.761	(1.000)	94	81807			0.00- 36.35	6.39
8.757	8.761	(1.000)	80	94249			0.00- 37.82	7.36

110 Benzidine								
						CAS #: 92-87-5		
10.089	10.322	(0.889)	184	3004438	100.000	126	70.00- 130.00	100.00(AQ)
10.088	10.322	(0.888)	92	175562			36.43- 96.43	5.84
10.089	10.322	(0.889)	185	482981			0.00- 47.46	16.08

122 3,3'-Dichlorobenzidine								
						CAS #: 91-94-1		
11.325	11.321	(0.997)	252	2242145	100.000	108	80.00- 120.00	100.00(AQ)
11.325	11.321	(0.997)	254	1527384			34.83- 94.83	68.12
11.324	11.321	(0.997)	126	179413			0.00- 37.08	8.00

* 121 Chrysene-d12								
						CAS #: 1719-03-5		
11.354	11.359	(1.000)	240	1769136	40.0000		80.00- 120.00	100.00
11.353	11.359	(1.000)	120	95719			0.00- 36.38	5.41
11.354	11.359	(1.000)	236	458976			0.00- 57.06	25.94

* 130 Perylene-d12								
						CAS #: 1520-96-3		
12.682	12.682	(1.000)	264	1762574	40.0000		80.00- 120.00	100.00
12.682	12.682	(1.000)	260	439862			0.00- 54.80	24.96
12.682	12.682	(1.000)	265	415014			0.00- 53.39	23.55

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.

Date : 23-APR-2012 13:56

Client ID: BSCAL7

Instrument: smsd03.i

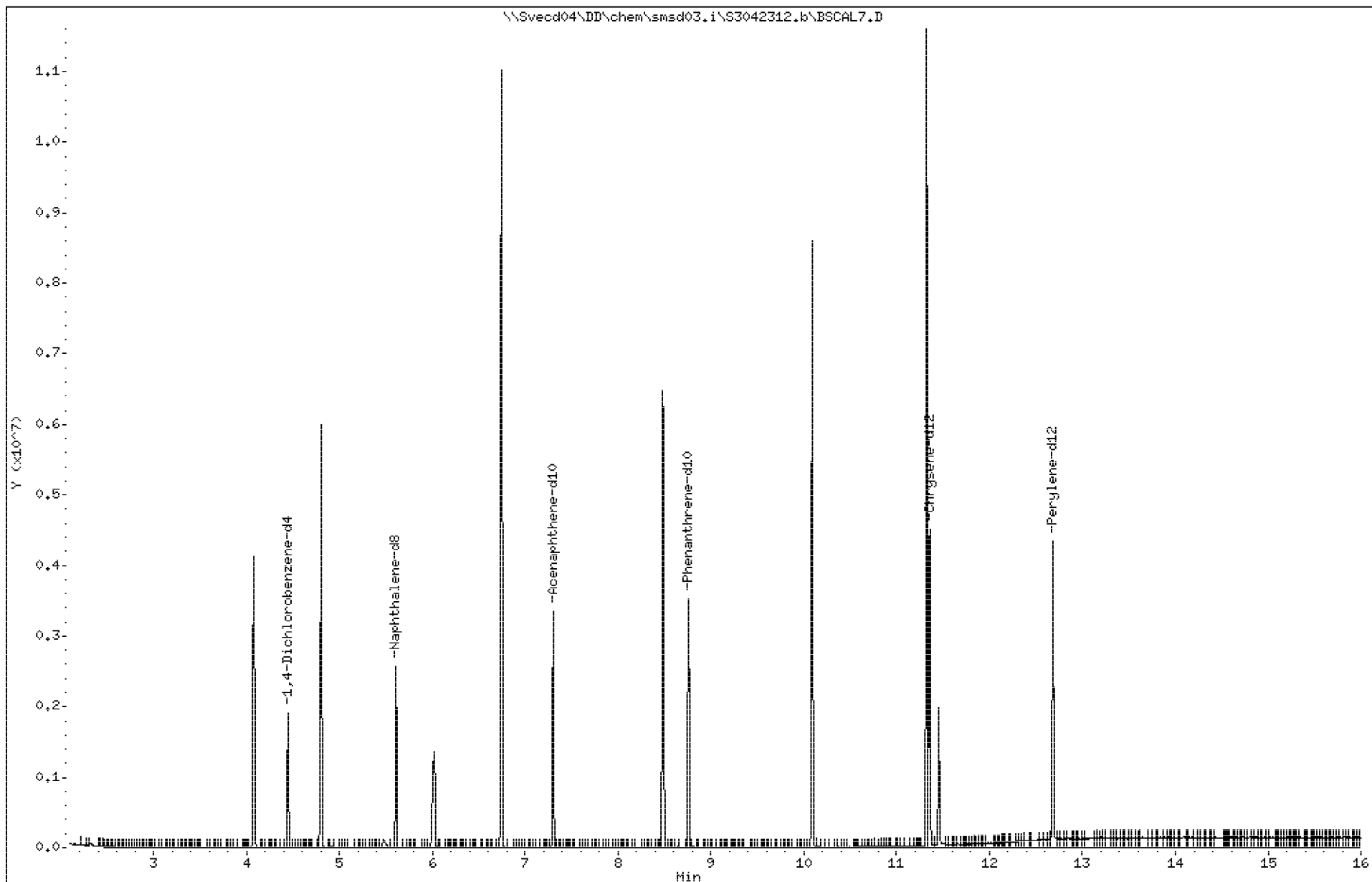
Sample Info: 45933

Operator: PEL

Purge Volume: 1000.0

Column diameter: 0.25

Column phase: HPMS-5



Date : 23-APR-2012 13:56

Client ID: BSCAL7

Instrument: smsd03.i

Sample Info: 45933

Purge Volume: 1000.0

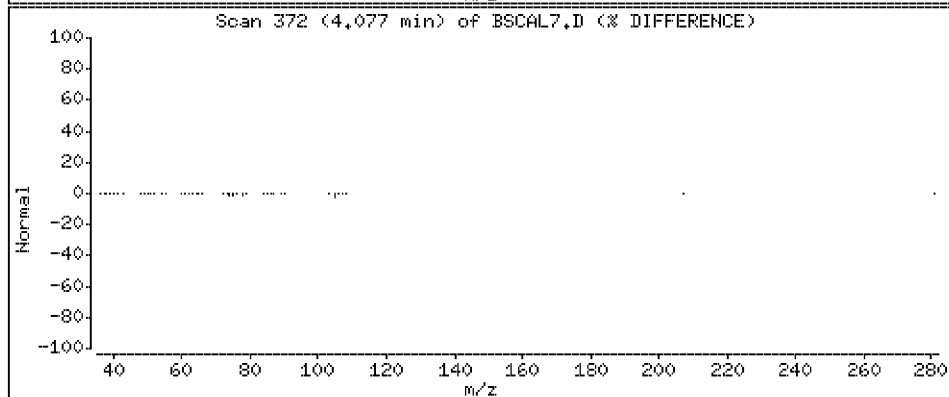
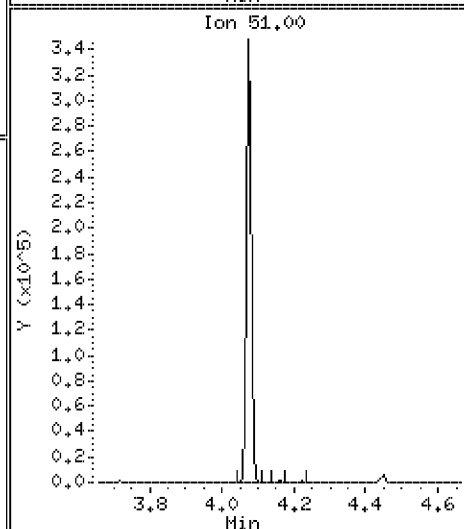
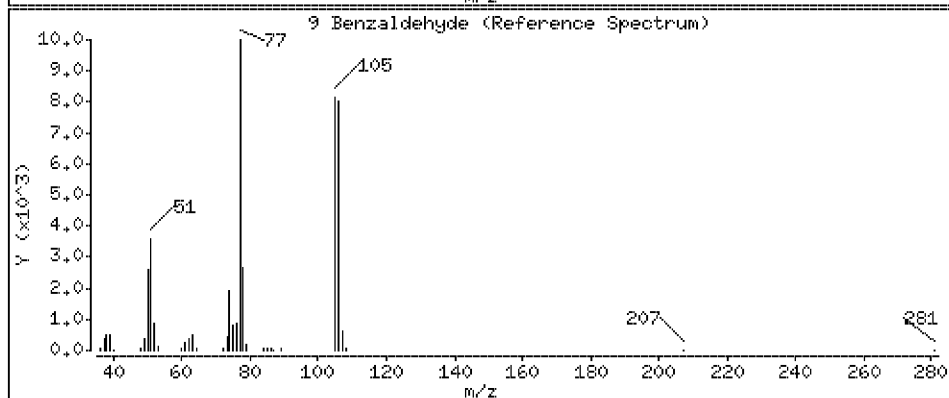
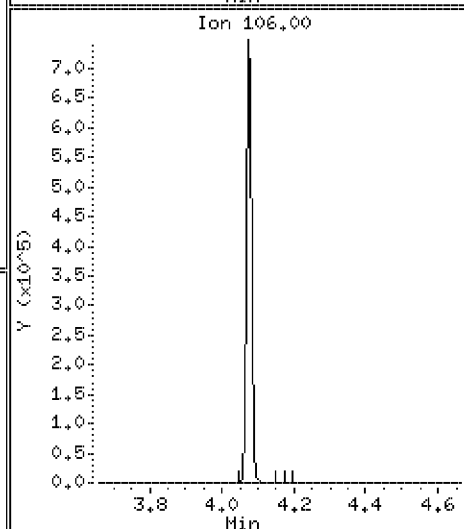
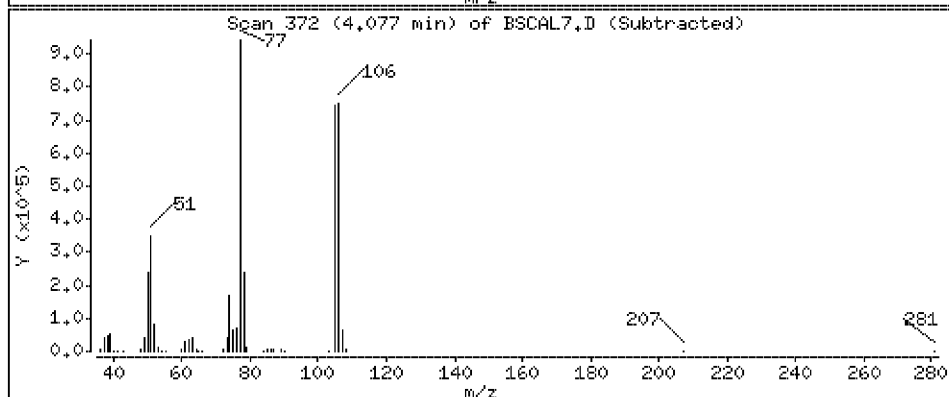
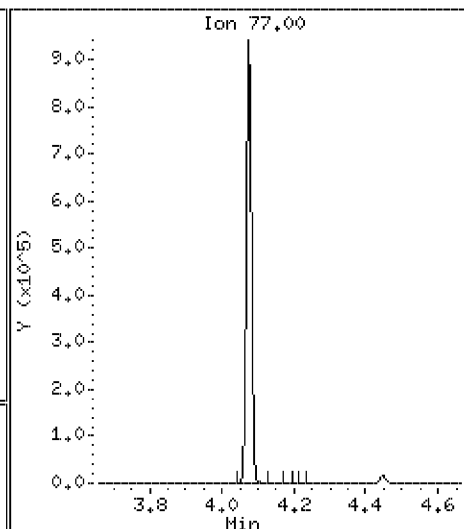
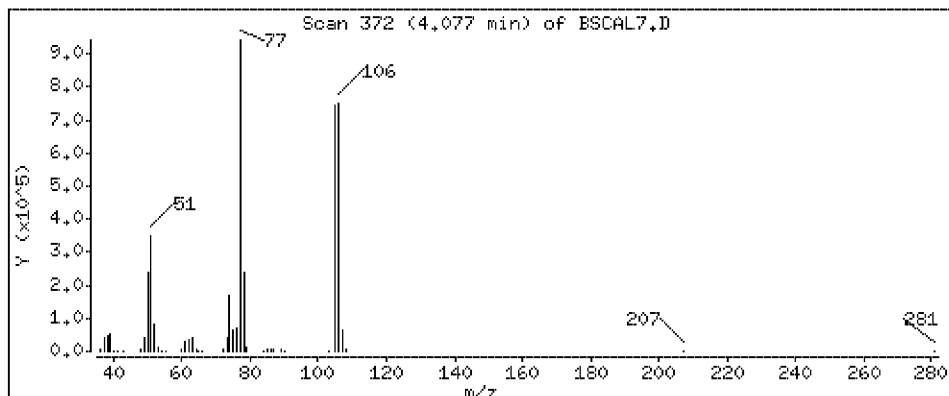
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

9 Benzaldehyde

Concentration: 108 ug/l



Date : 23-APR-2012 13:56

Client ID: BSCAL7

Instrument: smsd03.i

Sample Info: 45933

Purge Volume: 1000.0

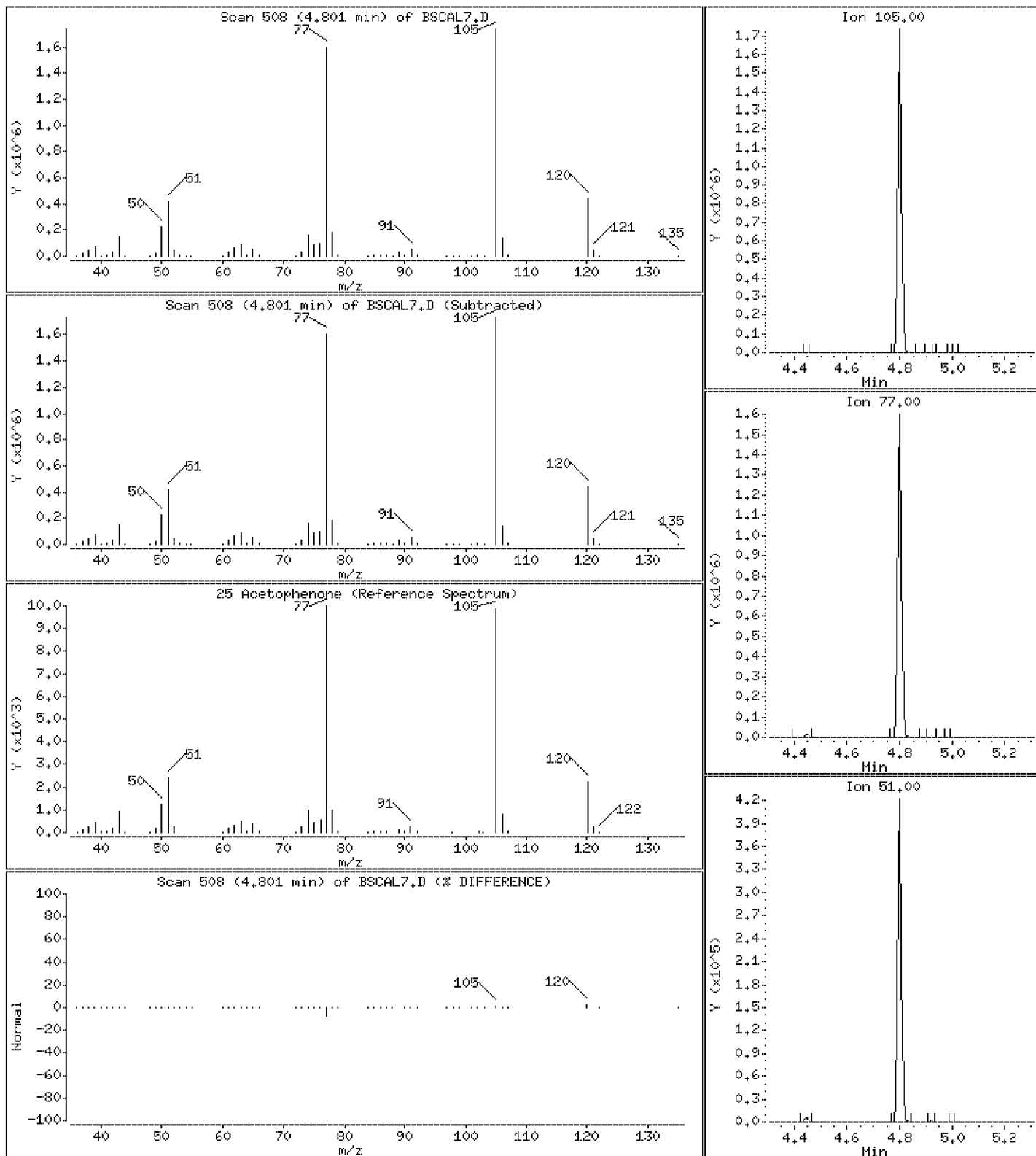
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

25 Acetophenone

Concentration: 114 ug/l



Date : 23-APR-2012 13:56

Client ID: BSCAL7

Instrument: smsd03.i

Sample Info: 45933

Purge Volume: 1000.0

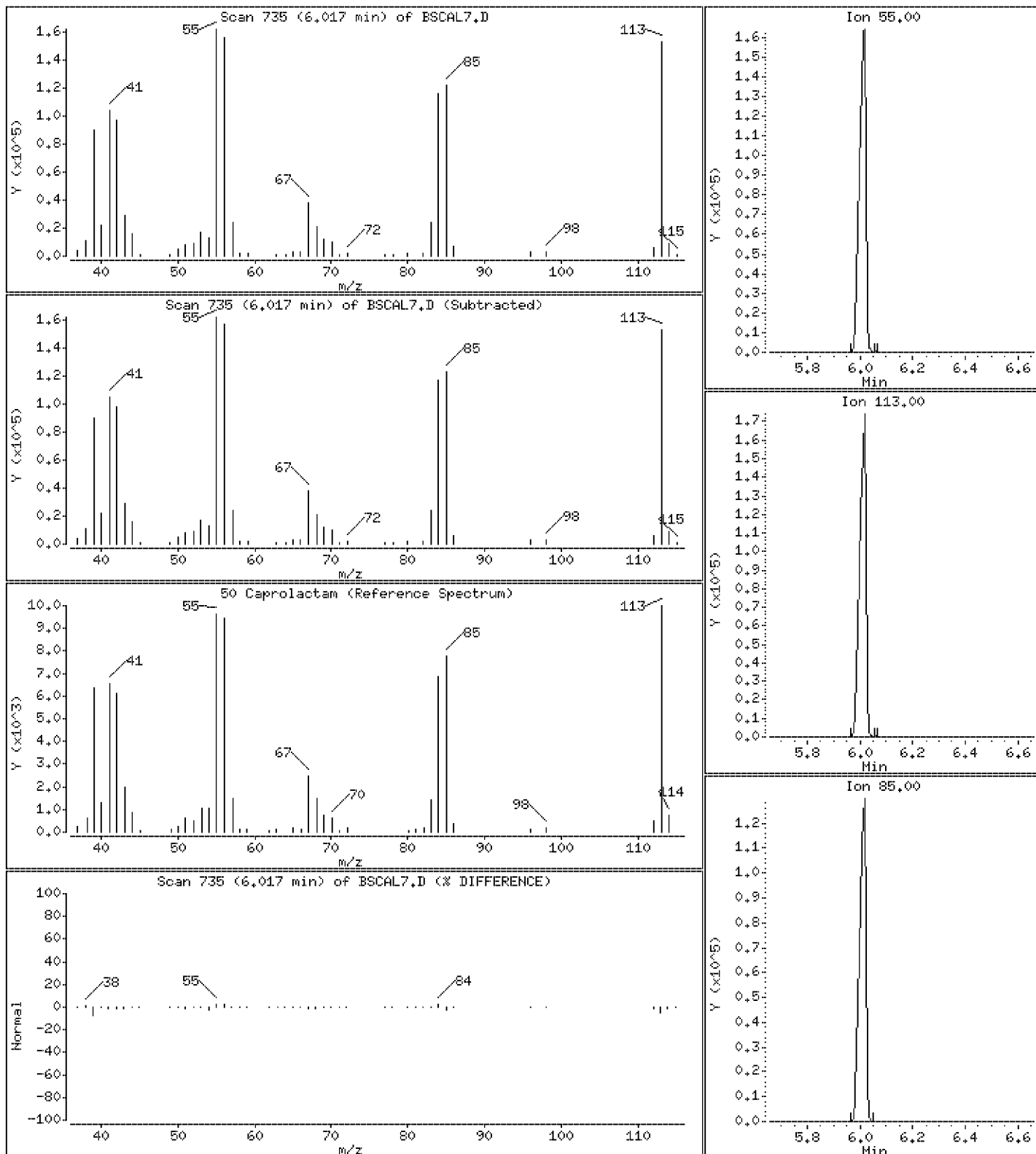
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

50 Caprolactam

Concentration: 103 ug/l



Date : 23-APR-2012 13:56

Client ID: BSCAL7

Instrument: smsd03.i

Sample Info: 45933

Purge Volume: 1000.0

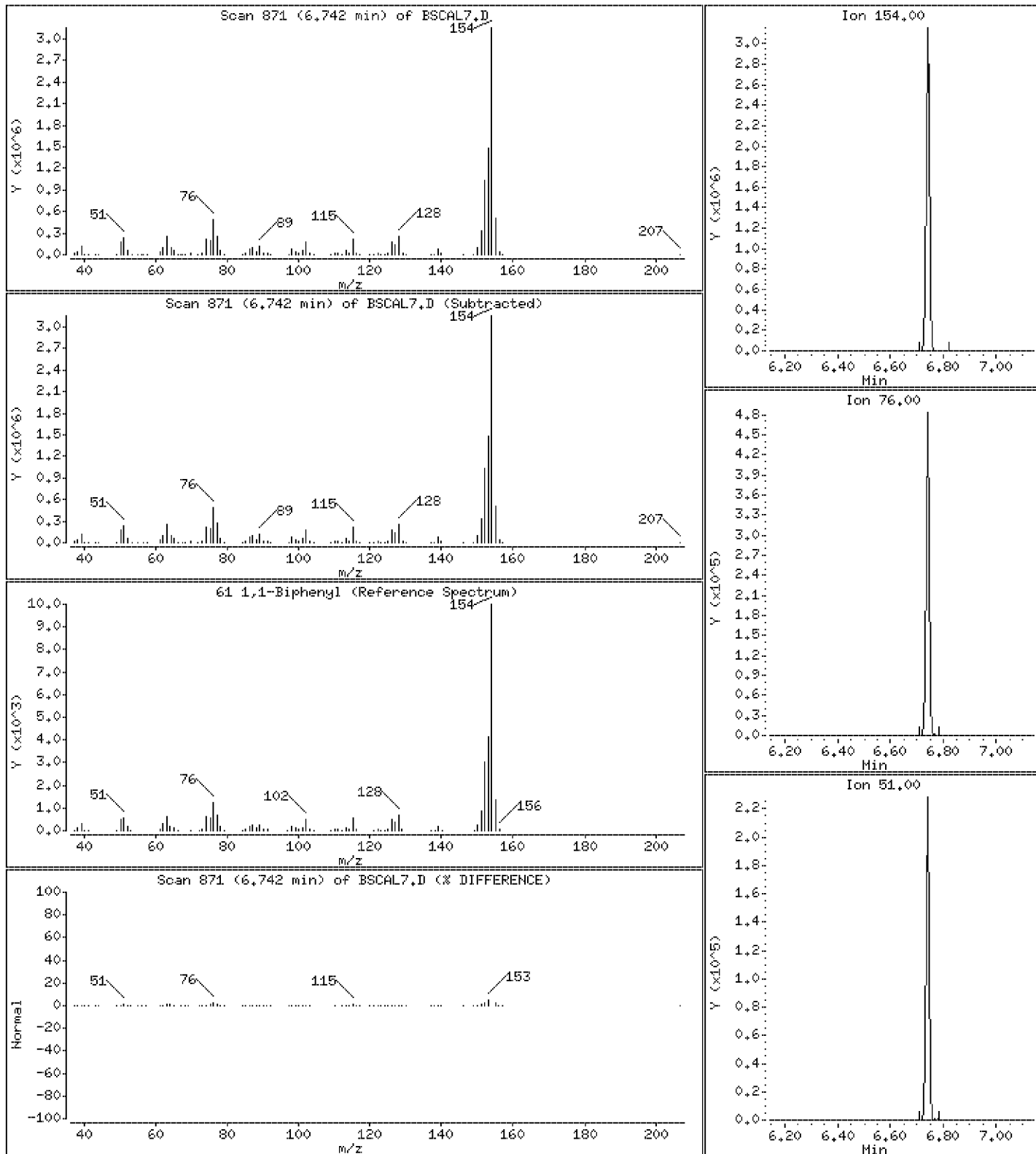
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

61 1,1-Biphenyl

Concentration: 106 ug/l



Date : 23-APR-2012 13:56

Client ID: BSCAL7

Instrument: smsd03.i

Sample Info: 45933

Purge Volume: 1000.0

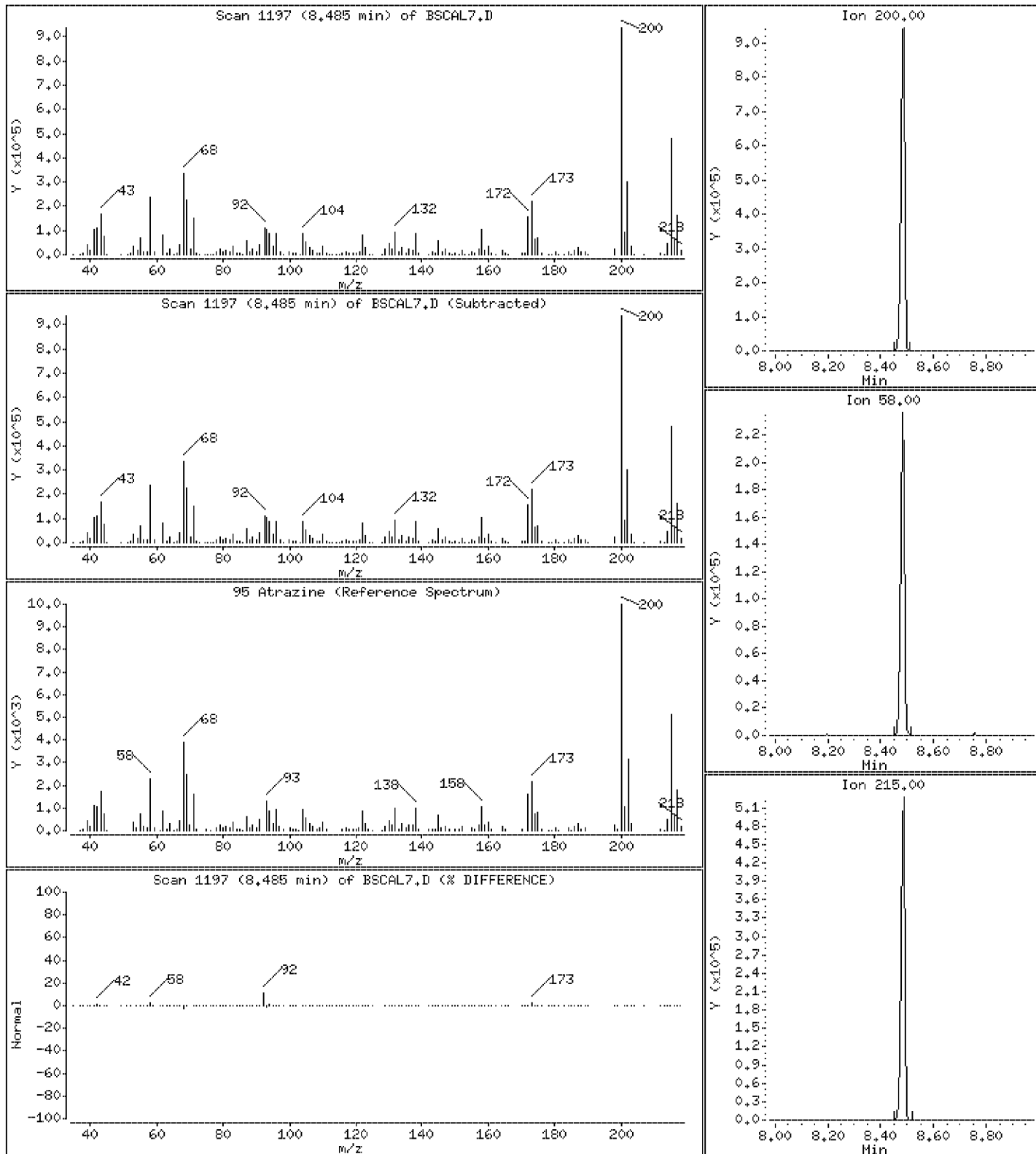
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

95 Atrazine

Concentration: 112 ug/l



Date : 23-APR-2012 13:56

Client ID: BSCAL7

Instrument: smsd03.i

Sample Info: 45933

Purge Volume: 1000.0

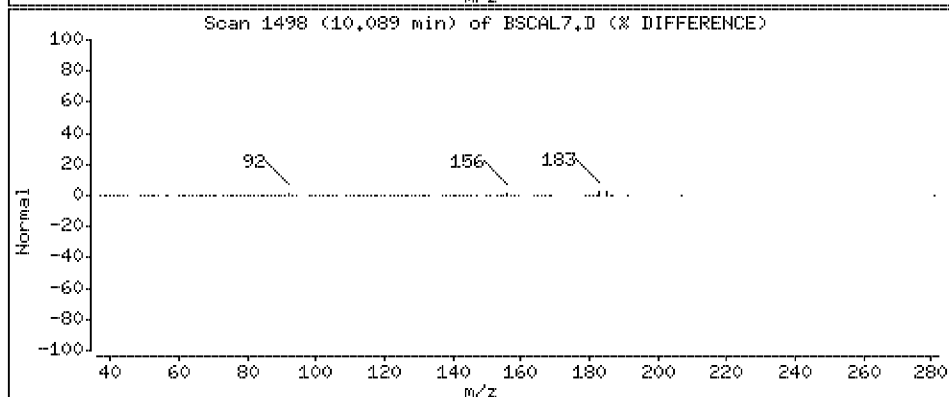
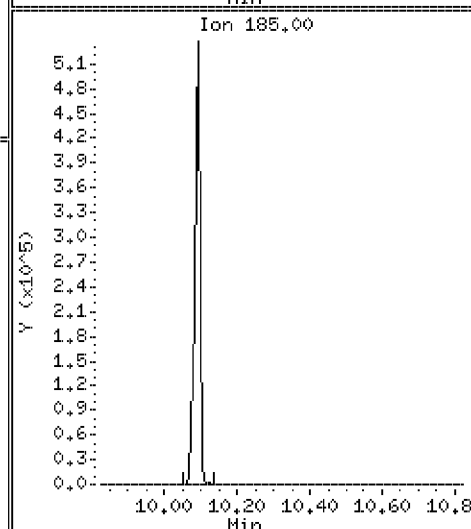
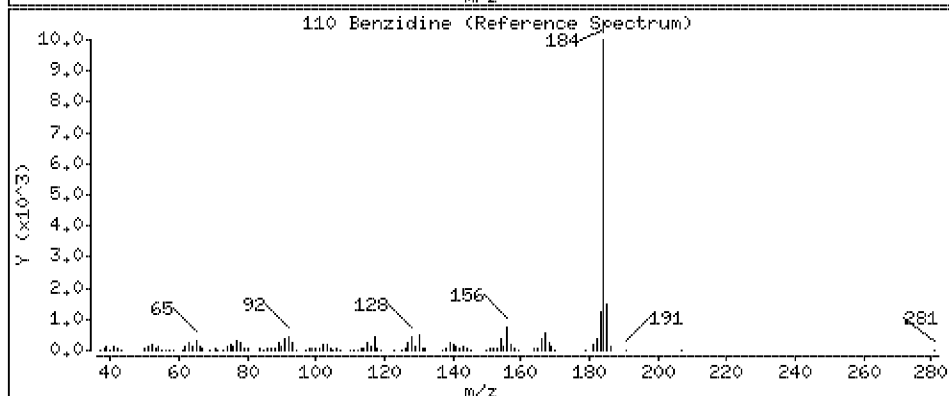
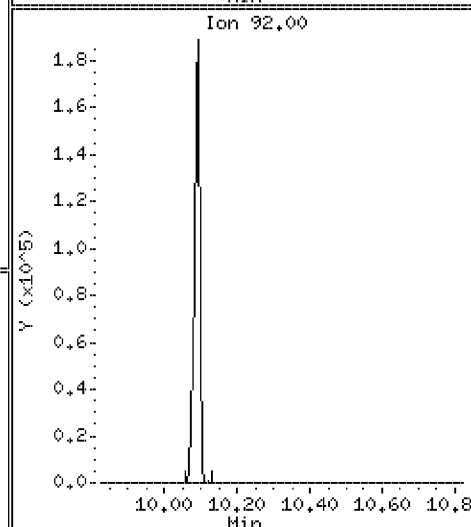
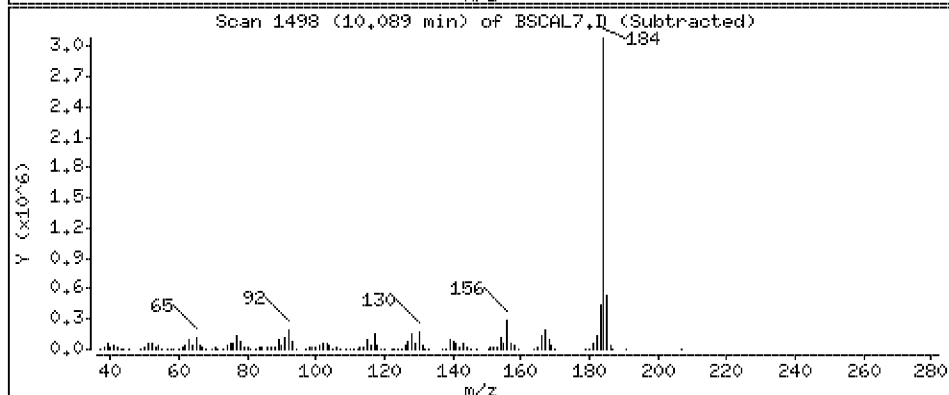
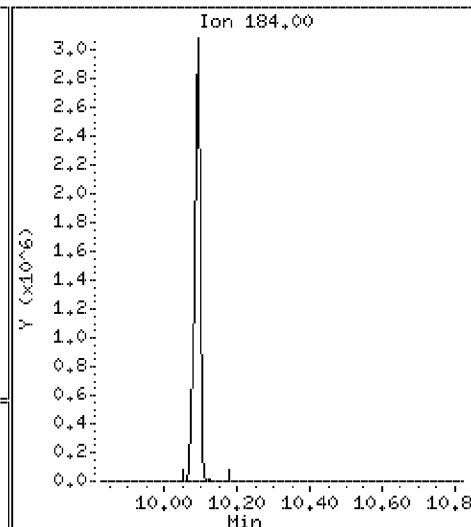
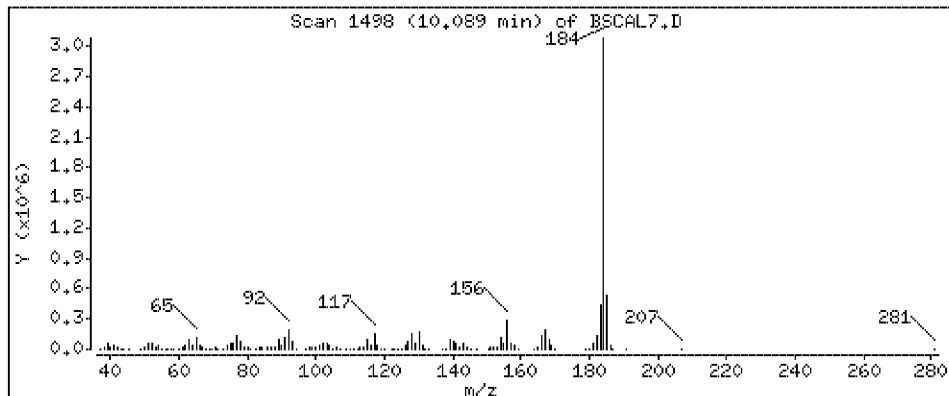
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

110 Benzidine

Concentration: 126 ug/l



Date : 23-APR-2012 13:56

Client ID: BSCAL7

Instrument: smsd03.i

Sample Info: 45933

Purge Volume: 1000.0

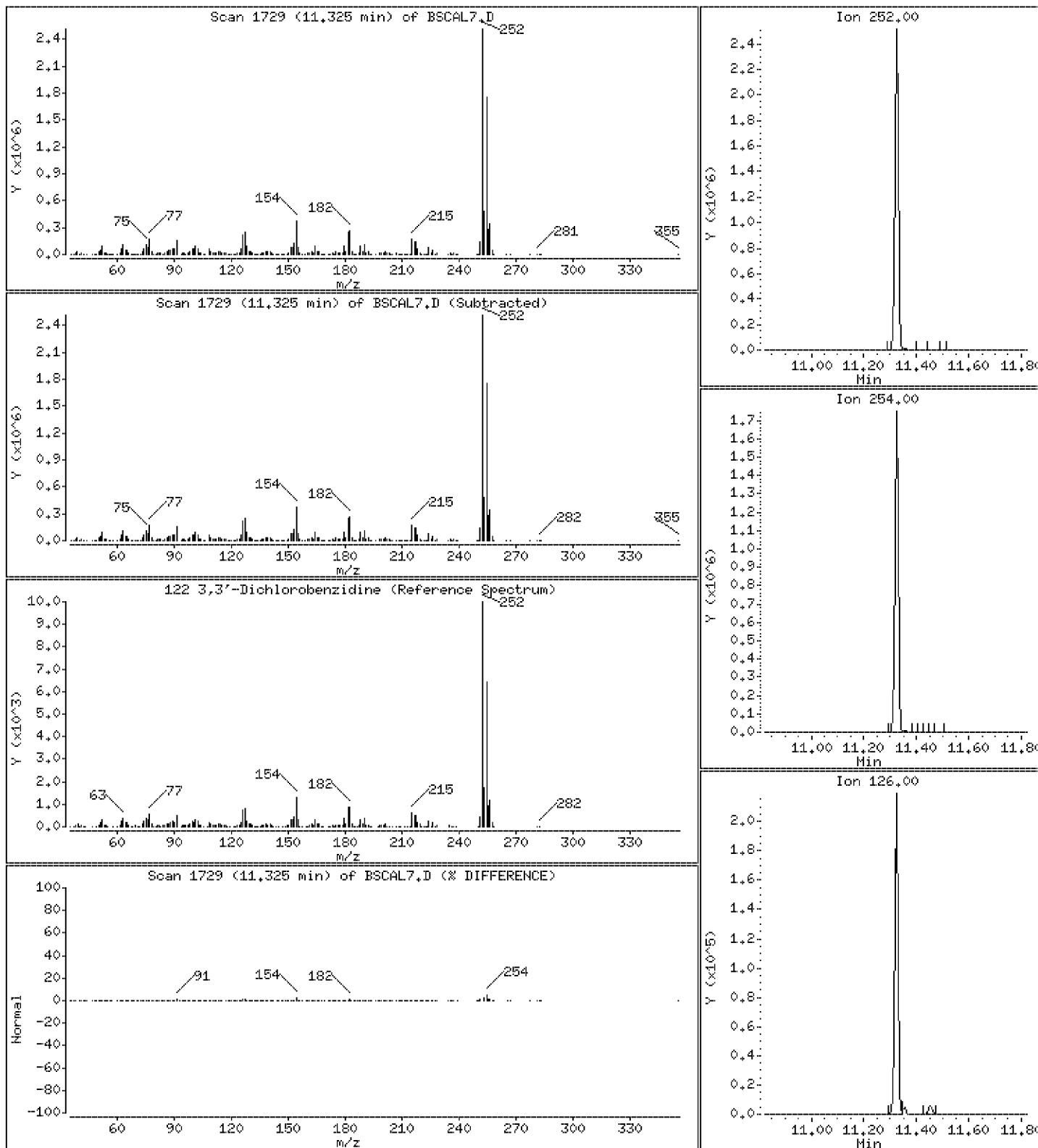
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

122 3,3'-Dichlorobenzidine

Concentration: 108 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3042312.b\BSCAL6.D
 Lab Smp Id: 45934 Client Smp ID: BSCAL6
 Inj Date : 23-APR-2012 14:20 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 45934
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270bcs.m
 Meth Date : 25-Apr-2012 09:57 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 13:56 Cal File: BSCAL7.D
 Als bottle: 11 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: BZSOWcal.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
9 Benzaldehyde CAS #: 100-52-7									
4.076	4.161	(0.917)	77	686377	75.0000	76.0	70.00- 130.00	100.00	
4.076	4.161	(0.917)	106	549400			0.00- 30.92	80.04	
4.075	4.161	(0.917)	51	236214			231.65- 291.65	34.41	
* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.446	4.448	(1.000)	152	296321	40.0000		80.00- 120.00	100.00	
4.445	4.448	(1.000)	115	180596			32.20- 92.20	60.95	
4.446	4.448	(1.000)	150	441548			139.77- 199.77	149.01	
25 Acetophenone CAS #: 98-86-2									
4.799	4.807	(0.856)	105	1131952	75.0000	81.5	70.00- 130.00	100.00	
4.799	4.807	(0.856)	77	1115276			4410.01-4470.01	98.53	
4.798	4.807	(0.856)	51	284192			1262.06-1322.06	25.11	
* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.607	5.610	(1.000)	136	961929	40.0000		80.00- 120.00	100.00	
5.606	5.610	(1.000)	68	53988			0.00- 35.51	5.61	
50 Caprolactam CAS #: 105-60-2									
6.011	6.158	(1.072)	55	205390	75.0000	72.1	70.00- 130.00	100.00	
6.011	6.158	(1.072)	113	221584			106.52- 166.52	107.88	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
50 Caprolactam (continued)								
6.012	6.158	(1.072)	85	166923			55.05- 115.05	81.27

61 1,1-Biphenyl								
						CAS #: 92-52-4		
6.740	6.642	(0.923)	154	2116657	75.0000	78.6	70.00- 130.00	100.00
6.740	6.642	(0.923)	76	286082			1762.39-1822.39	13.52
6.740	6.642	(0.923)	51	135384			1618.22-1678.22	6.40

* 70 Acenaphthene-d10								
						CAS #: 15067-26-2		
7.302	7.305	(1.000)	164	676083	40.0000		80.00- 120.00	100.00
7.303	7.305	(1.000)	162	647222			64.73- 124.73	95.73
7.303	7.305	(1.000)	160	288843			12.46- 72.46	42.72

95 Atrazine								
						CAS #: 1912-24-9		
8.483	8.479	(0.969)	200	693319	75.0000	79.3	80.00- 120.00	100.00
8.481	8.479	(0.968)	58	166227			0.00- 52.18	23.98
8.483	8.479	(0.969)	215	373374			22.24- 82.24	53.85

* 100 Phenanthrene-d10								
						CAS #: 1517-22-2		
8.758	8.761	(1.000)	188	1305271	40.0000		80.00- 120.00	100.00
8.757	8.761	(1.000)	94	83038			0.00- 36.35	6.36
8.757	8.761	(1.000)	80	97171			0.00- 37.82	7.44

110 Benzidine								
						CAS #: 92-87-5		
10.086	10.322	(0.888)	184	2204311	75.0000	94.7	70.00- 130.00	100.00
10.085	10.322	(0.888)	92	116508			36.43- 96.43	5.29
10.086	10.322	(0.888)	185	334052			0.00- 47.46	15.15

122 3,3'-Dichlorobenzidine								
						CAS #: 91-94-1		
11.323	11.321	(0.997)	252	1631709	75.0000	80.0	80.00- 120.00	100.00
11.323	11.321	(0.997)	254	1078938			34.83- 94.83	66.12
11.322	11.321	(0.997)	126	126673			0.00- 37.08	7.76

* 121 Chrysene-d12								
						CAS #: 1719-03-5		
11.354	11.359	(1.000)	240	1732114	40.0000		80.00- 120.00	100.00
11.353	11.359	(1.000)	120	96102			0.00- 36.38	5.55
11.354	11.359	(1.000)	236	449946			0.00- 57.06	25.98

* 130 Perylene-d12								
						CAS #: 1520-96-3		
12.681	12.682	(1.000)	264	1732418	40.0000		80.00- 120.00	100.00
12.681	12.682	(1.000)	260	426247			0.00- 54.80	24.60
12.681	12.682	(1.000)	265	395634			0.00- 53.39	22.84

Date : 23-APR-2012 14:20

Client ID: BSCAL6

Instrument: smsd03.i

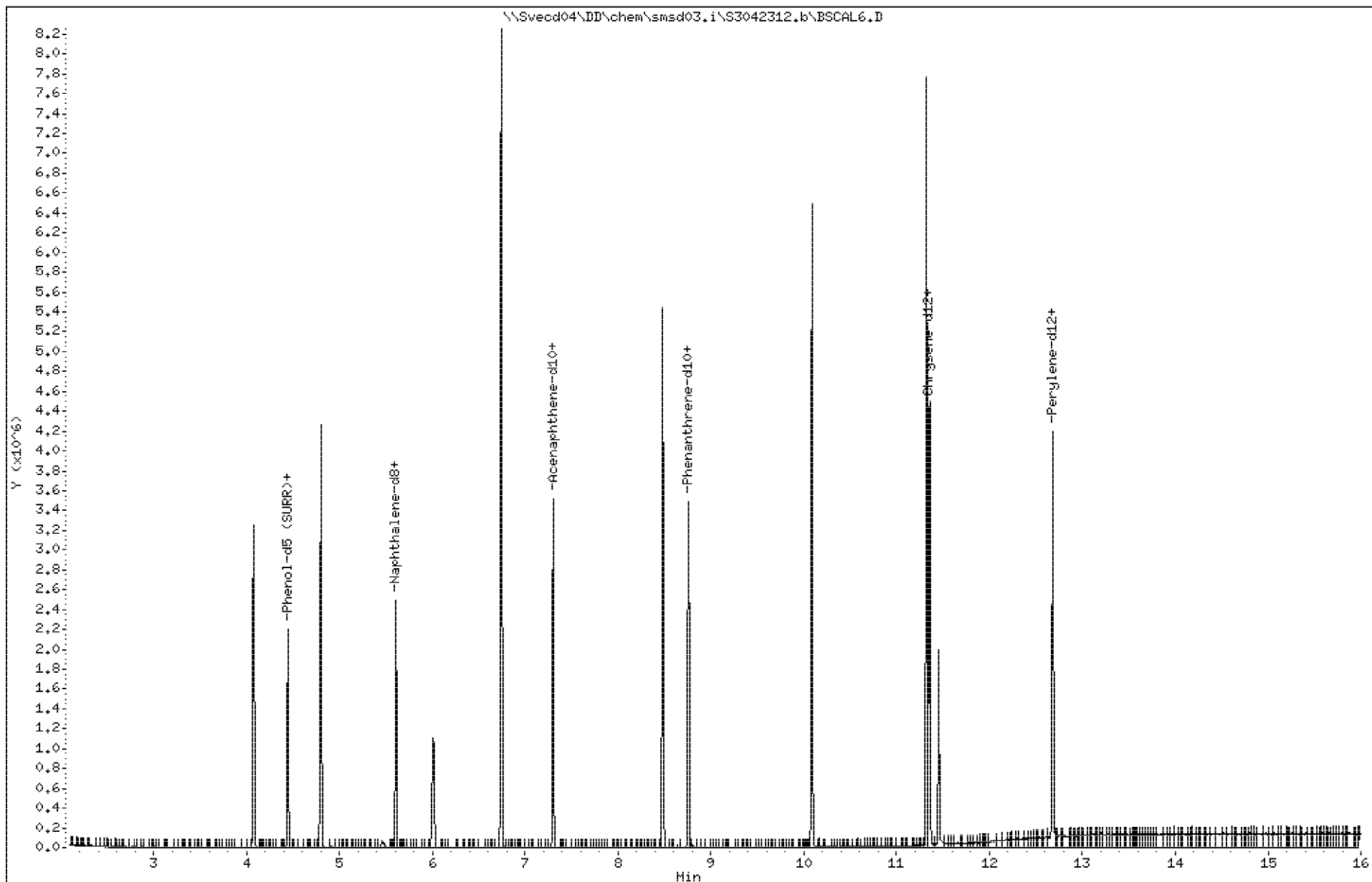
Sample Info: 45934

Operator: PEL

Purge Volume: 1000.0

Column diameter: 0.25

Column phase: HPMS-5



Date : 23-APR-2012 14:20

Client ID: BSCAL6

Instrument: smsd03.i

Sample Info: 45934

Purge Volume: 1000.0

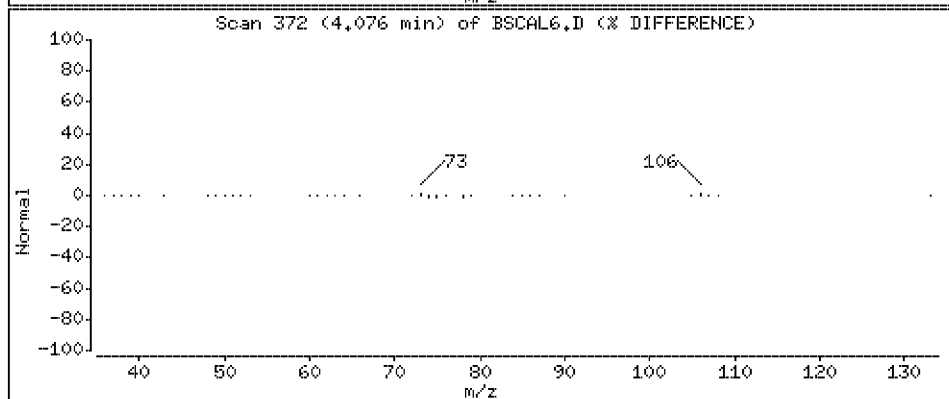
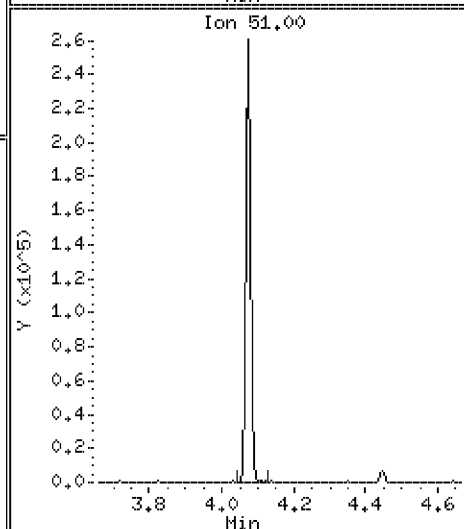
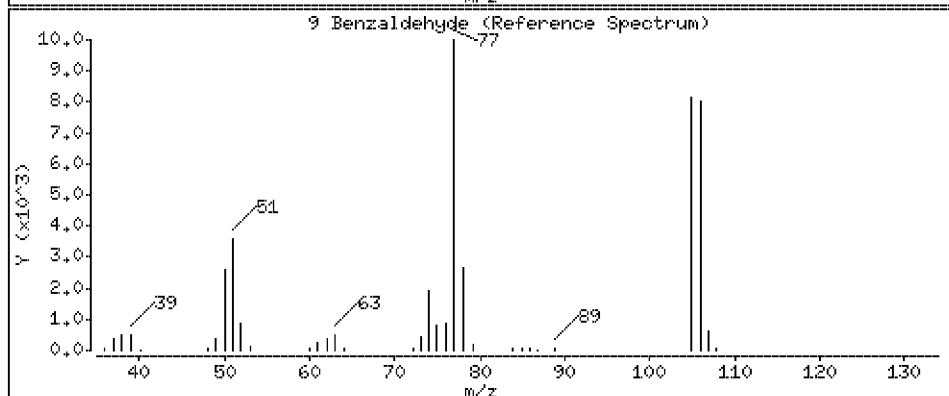
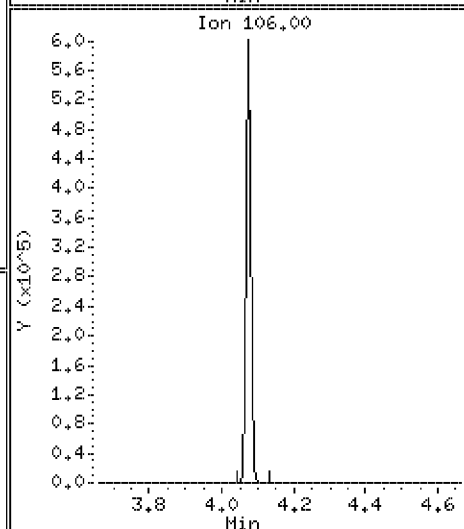
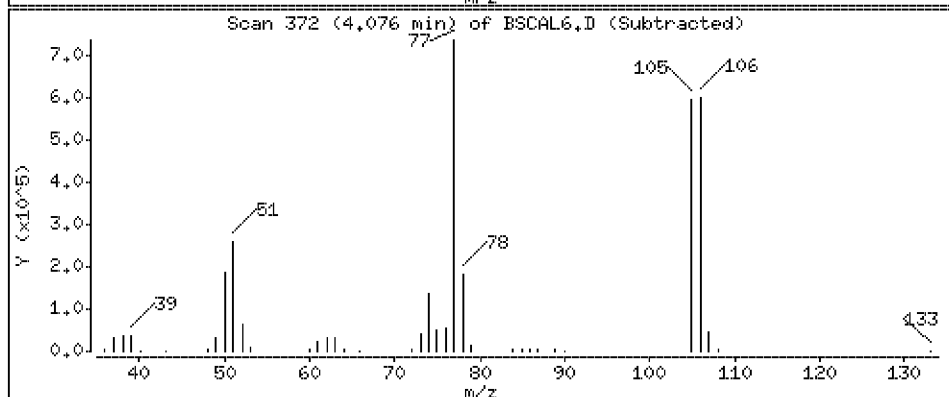
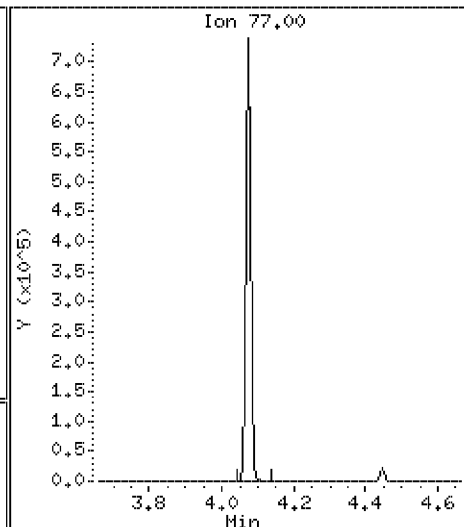
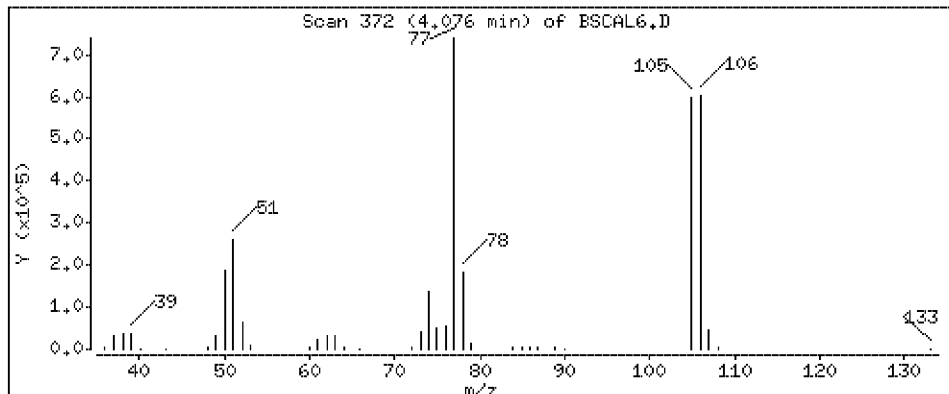
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

9 Benzaldehyde

Concentration: 76.0 ug/l



Date : 23-APR-2012 14:20

Client ID: BSCAL6

Instrument: smsd03.i

Sample Info: 45934

Purge Volume: 1000.0

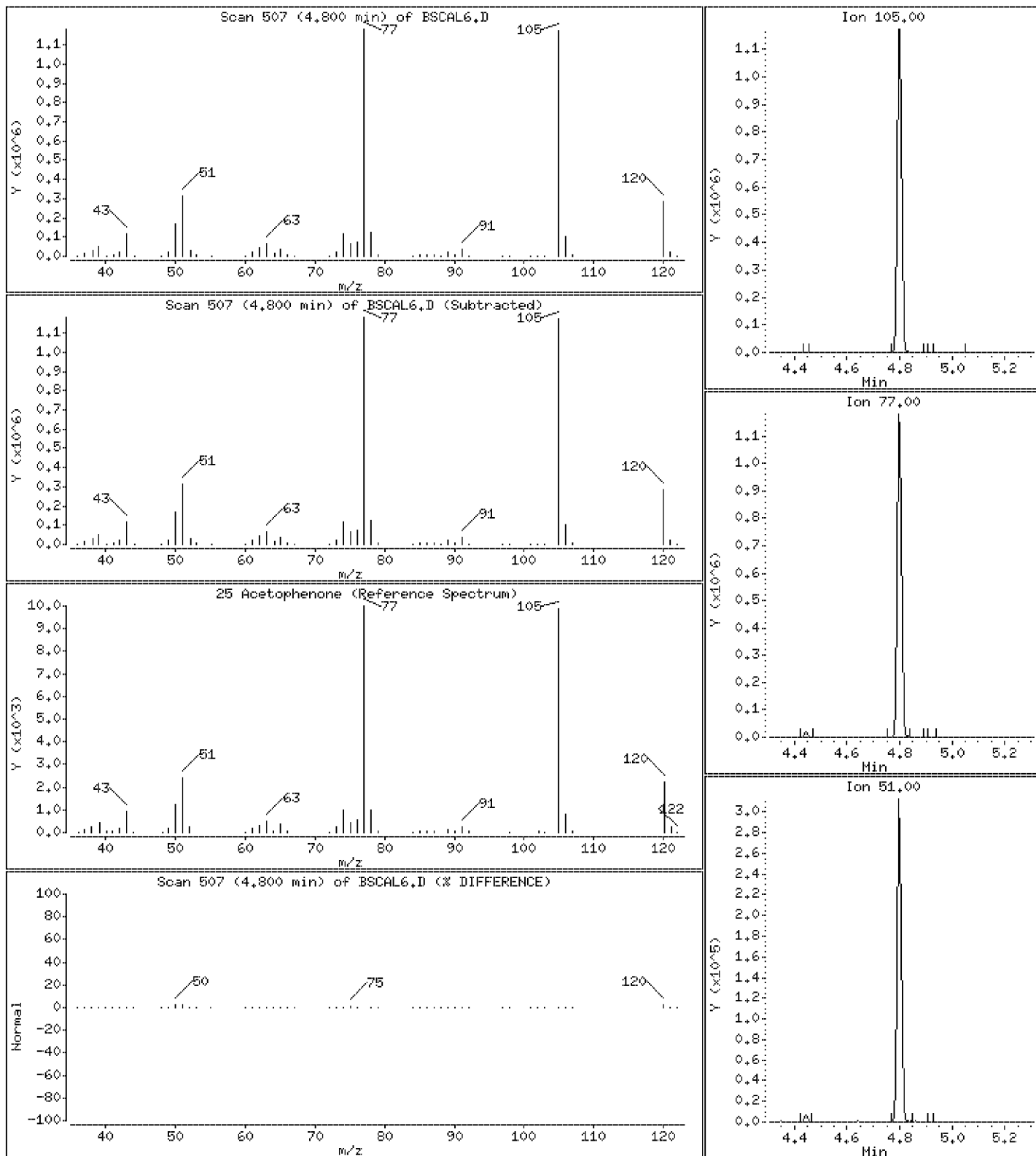
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

25 Acetophenone

Concentration: 81.5 ug/l



Date : 23-APR-2012 14:20

Client ID: BSCAL6

Instrument: smsd03.i

Sample Info: 45934

Purge Volume: 1000.0

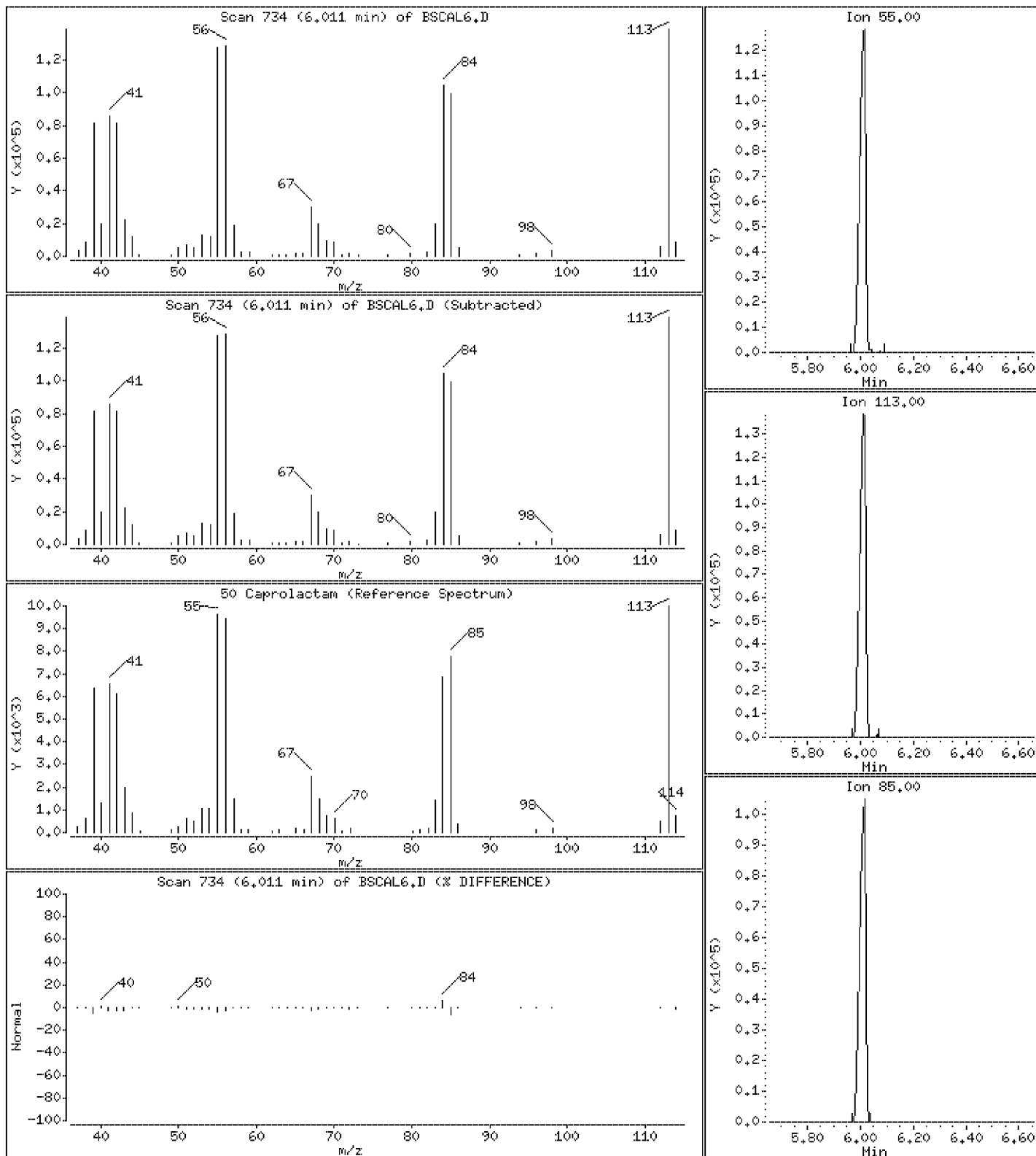
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

50 Caprolactam

Concentration: 72.1 ug/l



Date : 23-APR-2012 14:20

Client ID: BSCAL6

Instrument: smsd03.i

Sample Info: 45934

Purge Volume: 1000.0

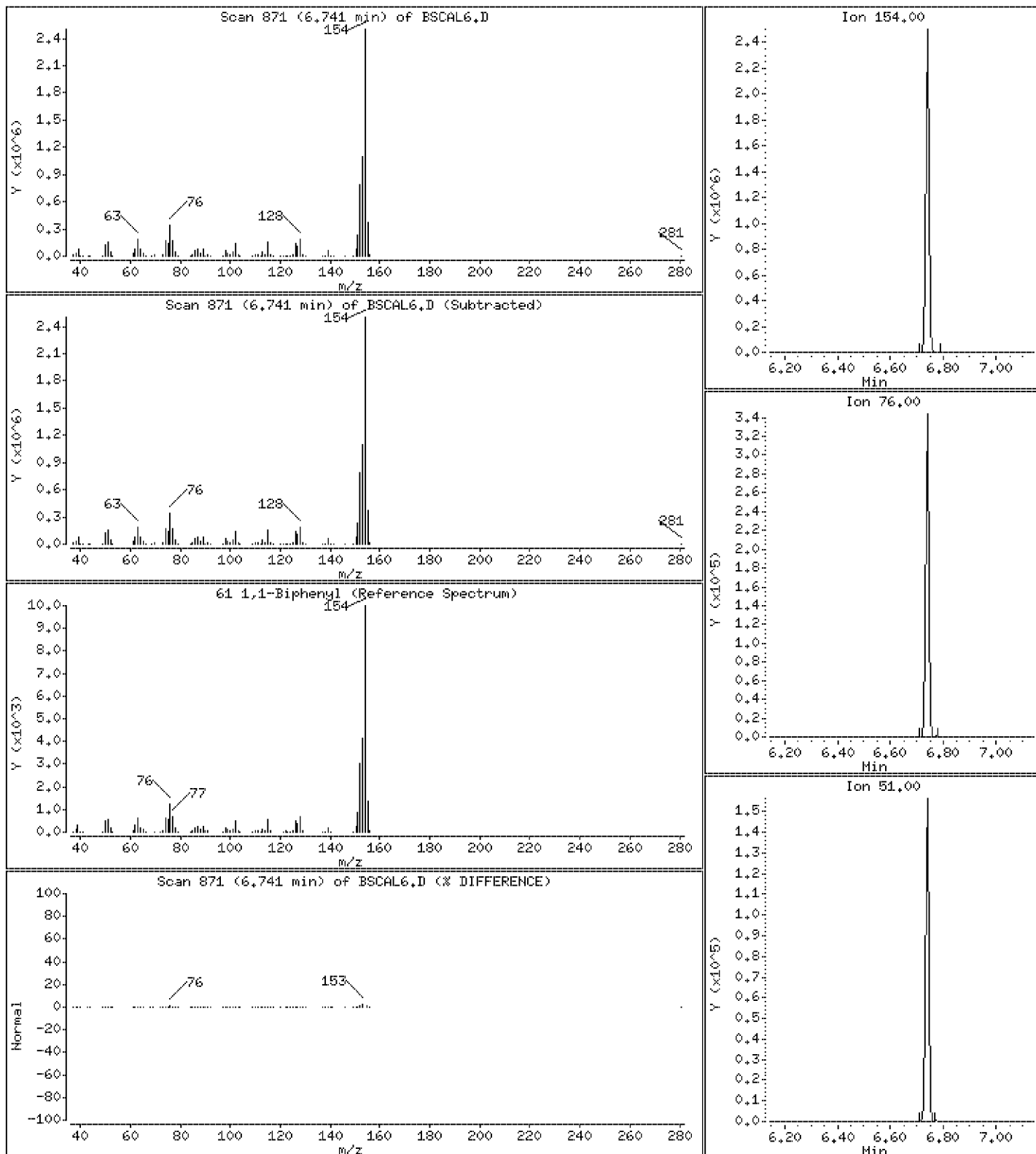
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

61 1,1-Biphenyl

Concentration: 78.6 ug/l



Date : 23-APR-2012 14:20

Client ID: BSCAL6

Instrument: smsd03.i

Sample Info: 45934

Purge Volume: 1000.0

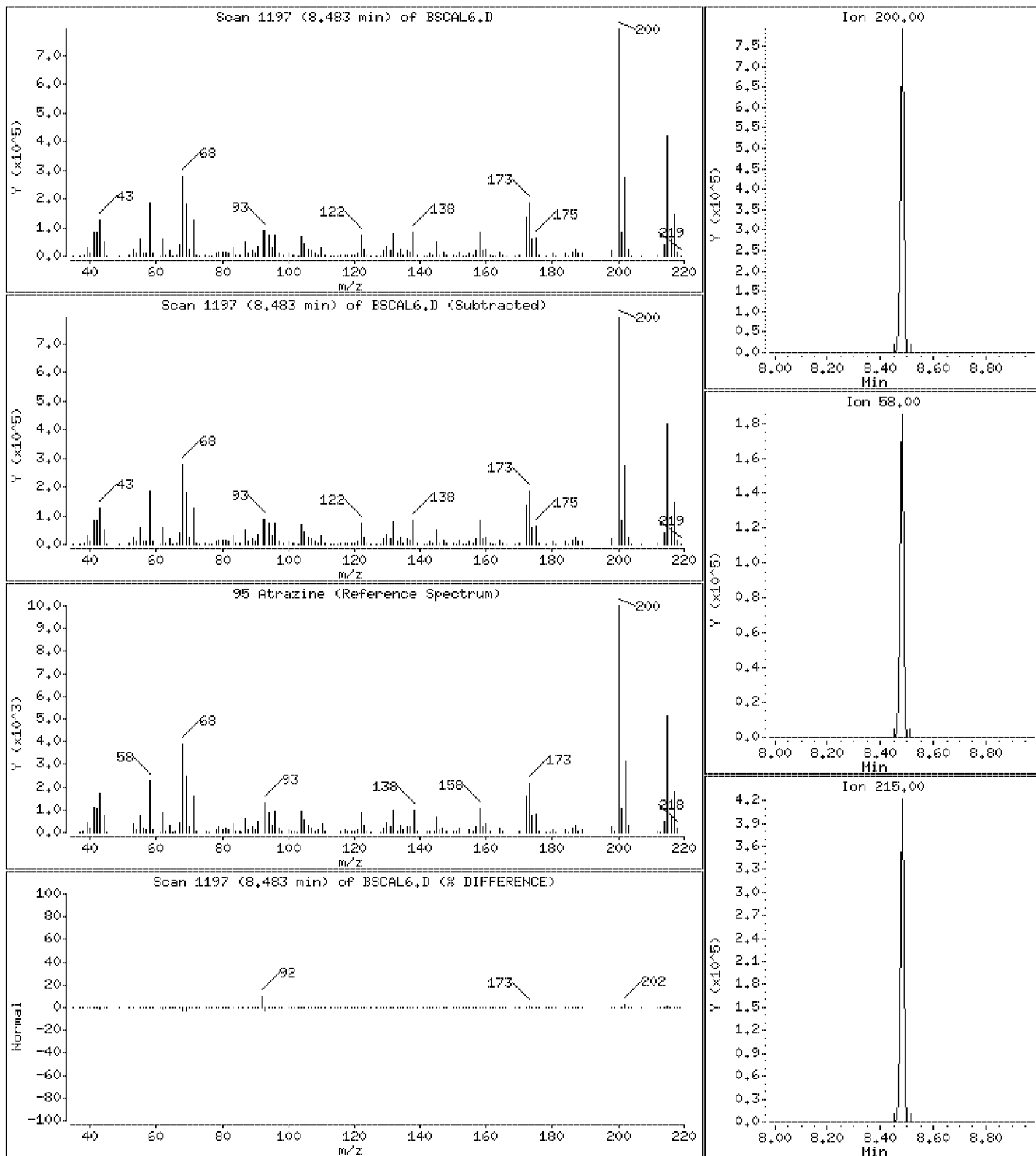
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

95 Atrazine

Concentration: 79.3 ug/l



Date : 23-APR-2012 14:20

Client ID: BSCAL6

Instrument: smsd03.i

Sample Info: 45934

Purge Volume: 1000.0

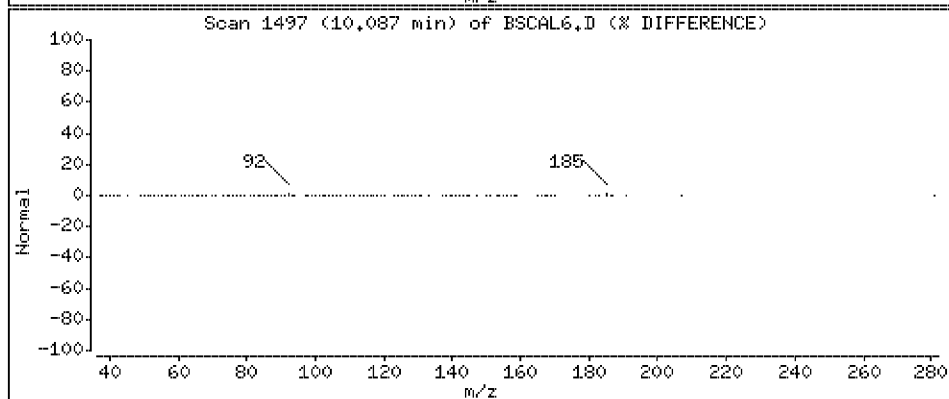
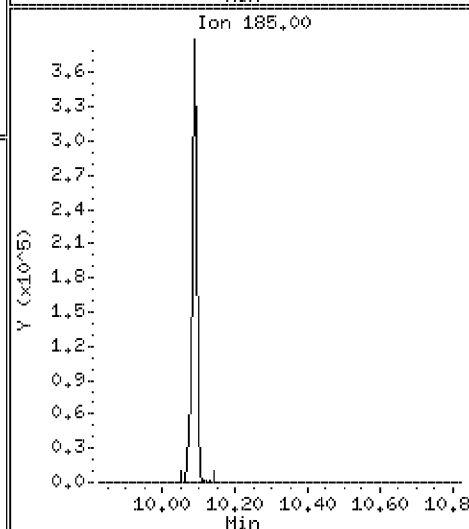
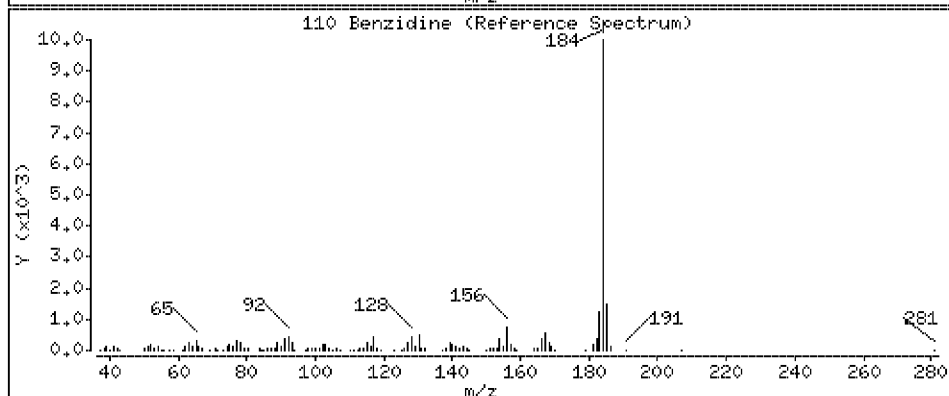
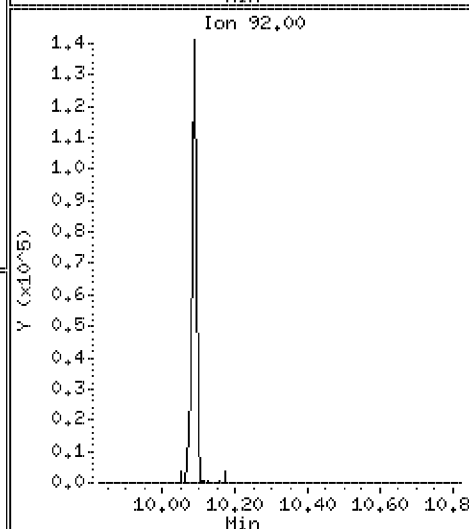
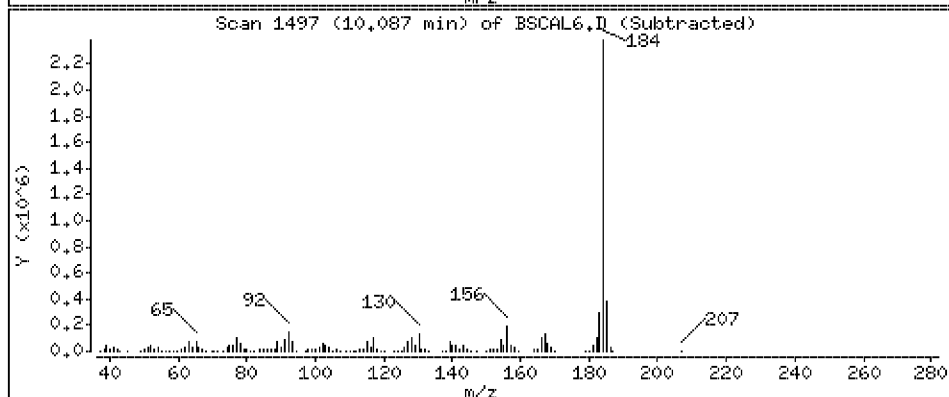
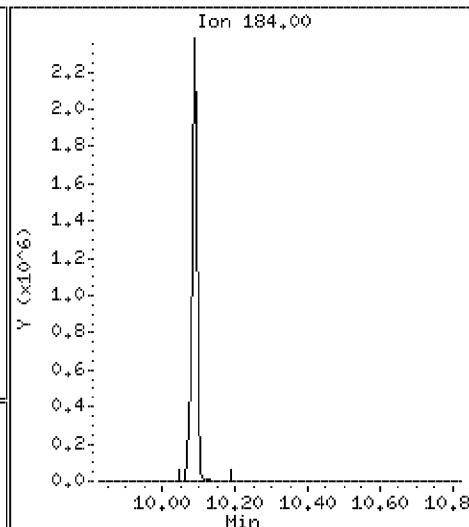
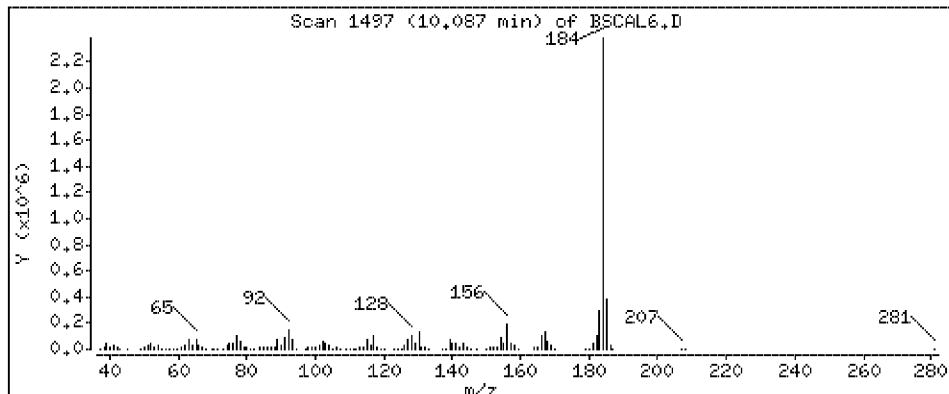
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

110 Benzidine

Concentration: 94.7 ug/l



Date : 23-APR-2012 14:20

Client ID: BSCAL6

Instrument: smsd03.i

Sample Info: 45934

Purge Volume: 1000.0

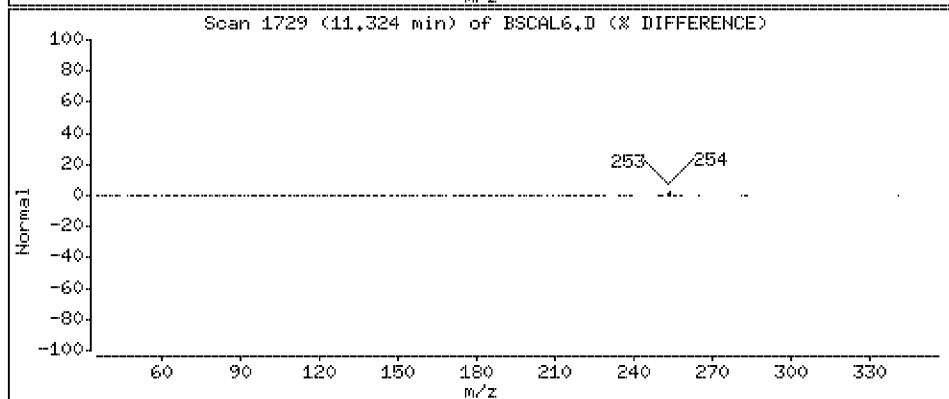
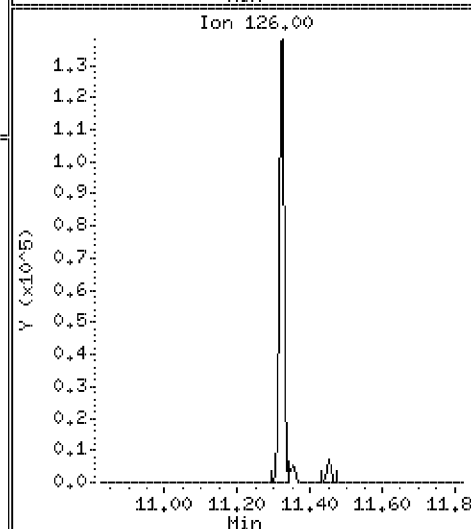
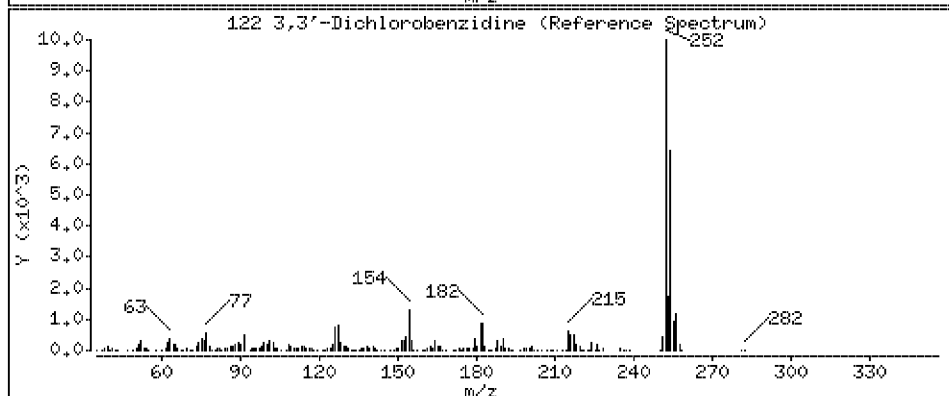
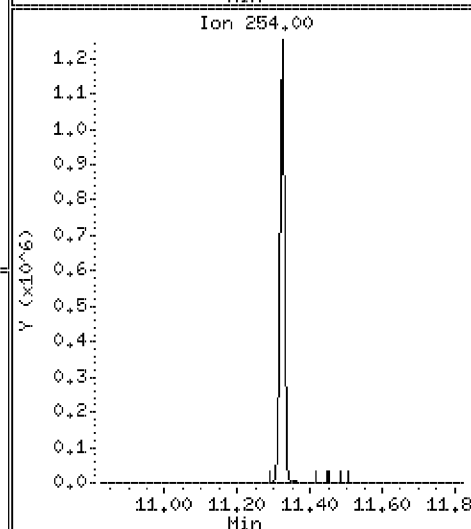
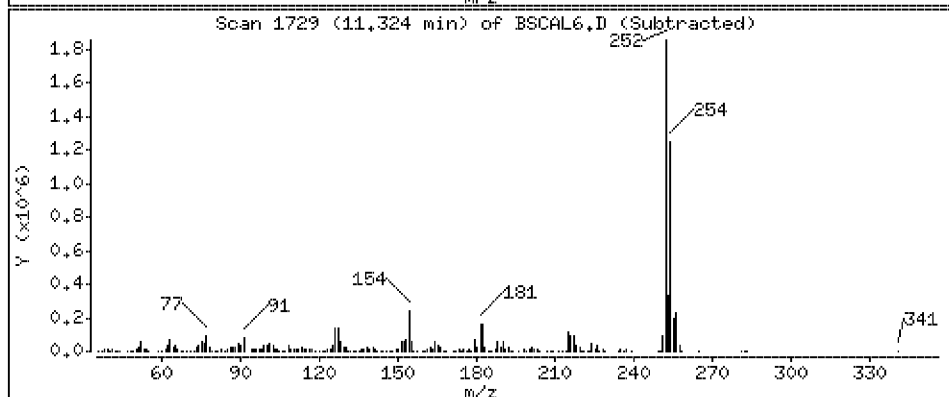
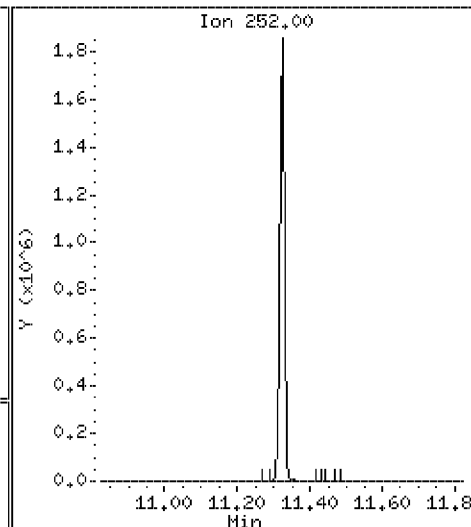
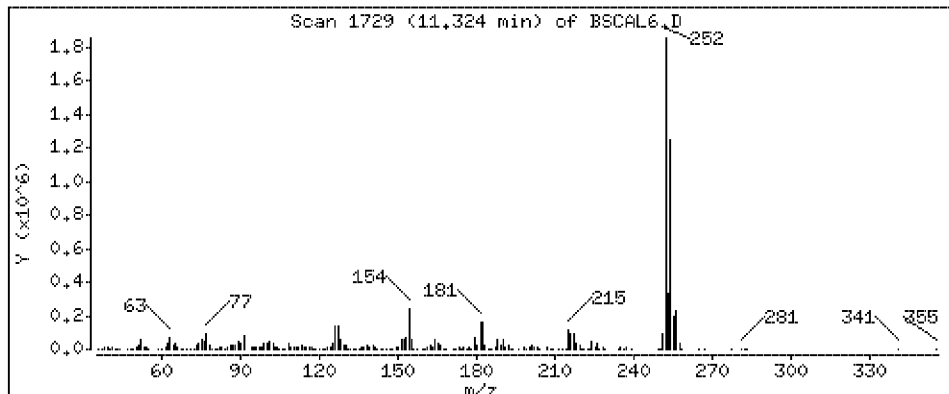
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

122 3,3'-Dichlorobenzidine

Concentration: 80.0 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3042312.b\BSCAL5.D
 Lab Smp Id: 45935 Client Smp ID: BSCAL5
 Inj Date : 23-APR-2012 14:44 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 45935
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270bcs.m
 Meth Date : 25-Apr-2012 09:57 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 13:56 Cal File: BSCAL7.D
 Als bottle: 12 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: BZSOWcal.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
9 Benzaldehyde CAS #: 100-52-7									
4.076	4.161	(0.917)	77	536833	60.0000	60.0	70.00- 130.00	100.00	
4.076	4.161	(0.917)	106	416084			0.00- 30.92	77.51	
4.076	4.161	(0.917)	51	186847			231.65- 291.65	34.81	
* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.446	4.448	(1.000)	152	293414	40.0000		80.00- 120.00	100.00	
4.446	4.448	(1.000)	115	175841			32.20- 92.20	59.93	
4.447	4.448	(1.000)	150	435128			139.77- 199.77	148.30	
25 Acetophenone CAS #: 98-86-2									
4.799	4.807	(0.856)	105	895061	60.0000	64.5	70.00- 130.00	100.00	
4.799	4.807	(0.856)	77	873187			4410.01-4470.01	97.56	
4.799	4.807	(0.856)	51	220563			1262.06-1322.06	24.64	
* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.608	5.610	(1.000)	136	957373	40.0000		80.00- 120.00	100.00	
5.608	5.610	(1.000)	68	49573			0.00- 35.51	5.18	
50 Caprolactam CAS #: 105-60-2									
6.005	6.158	(1.071)	55	161786	60.0000	57.7	70.00- 130.00	100.00	
6.006	6.158	(1.071)	113	169557			106.52- 166.52	104.80	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
50 Caprolactam (continued)								
6.006	6.158	(1.071)	85	128354			55.05- 115.05	79.34

61 1,1-Biphenyl								
						CAS #: 92-52-4		
6.741	6.642	(0.923)	154	1655652	60.0000	63.2	70.00- 130.00	100.00
6.740	6.642	(0.923)	76	214421			1762.39-1822.39	12.95
6.739	6.642	(0.923)	51	108988			1618.22-1678.22	6.58

* 70 Acenaphthene-d10								
						CAS #: 15067-26-2		
7.303	7.305	(1.000)	164	658040	40.0000		80.00- 120.00	100.00
7.303	7.305	(1.000)	162	643936			64.73- 124.73	97.86
7.303	7.305	(1.000)	160	299384			12.46- 72.46	45.50

95 Atrazine								
						CAS #: 1912-24-9		
8.481	8.479	(0.968)	200	536039	60.0000	61.9	80.00- 120.00	100.00
8.480	8.479	(0.968)	58	125671			0.00- 52.18	23.44
8.481	8.479	(0.968)	215	286247			22.24- 82.24	53.40

* 100 Phenanthrene-d10								
						CAS #: 1517-22-2		
8.758	8.761	(1.000)	188	1293819	40.0000		80.00- 120.00	100.00
8.757	8.761	(1.000)	94	79101			0.00- 36.35	6.11
8.757	8.761	(1.000)	80	96446			0.00- 37.82	7.45

110 Benzidine								
						CAS #: 92-87-5		
10.085	10.322	(0.888)	184	1664627	60.0000	72.5	70.00- 130.00	100.00
10.084	10.322	(0.888)	92	87758			36.43- 96.43	5.27
10.085	10.322	(0.888)	185	249300			0.00- 47.46	14.98

122 3,3'-Dichlorobenzidine								
						CAS #: 91-94-1		
11.322	11.321	(0.997)	252	1250449	60.0000	62.1	80.00- 120.00	100.00
11.322	11.321	(0.997)	254	819183			34.83- 94.83	65.51
11.320	11.321	(0.997)	126	90719			0.00- 37.08	7.25

* 121 Chrysene-d12								
						CAS #: 1719-03-5		
11.354	11.359	(1.000)	240	1709070	40.0000		80.00- 120.00	100.00
11.353	11.359	(1.000)	120	93709			0.00- 36.38	5.48
11.354	11.359	(1.000)	236	446632			0.00- 57.06	26.13

* 130 Perylene-d12								
						CAS #: 1520-96-3		
12.682	12.682	(1.000)	264	1715314	40.0000		80.00- 120.00	100.00
12.682	12.682	(1.000)	260	414289			0.00- 54.80	24.15
12.682	12.682	(1.000)	265	395751			0.00- 53.39	23.07

Date : 23-APR-2012 14:44

Client ID: BSCAL5

Instrument: smsd03.i

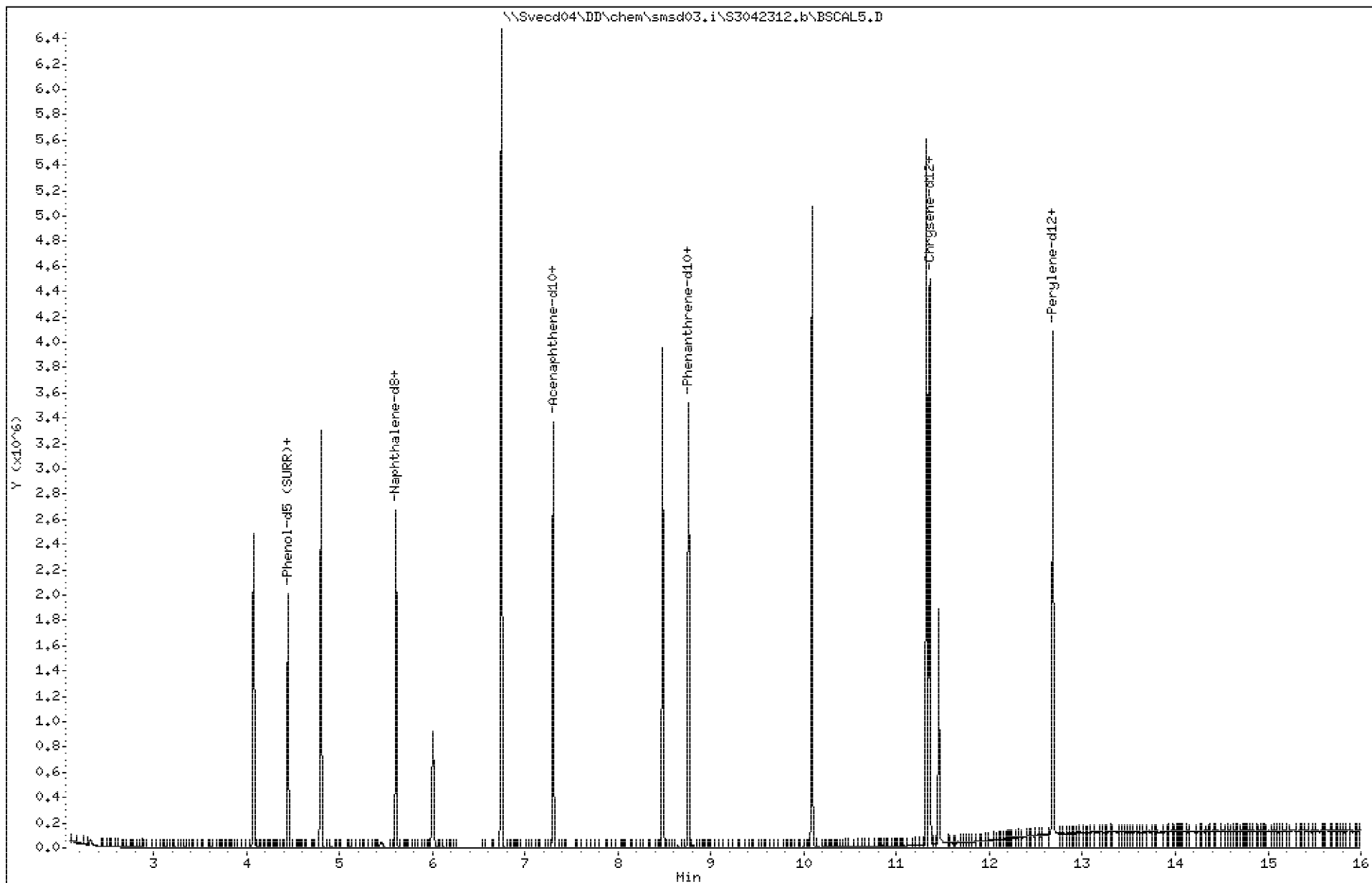
Sample Info: 45935

Operator: PEL

Purge Volume: 1000.0

Column diameter: 0.25

Column phase: HPMS-5



Date : 23-APR-2012 14:44

Client ID: BSCAL5

Instrument: smsd03.i

Sample Info: 45935

Purge Volume: 1000.0

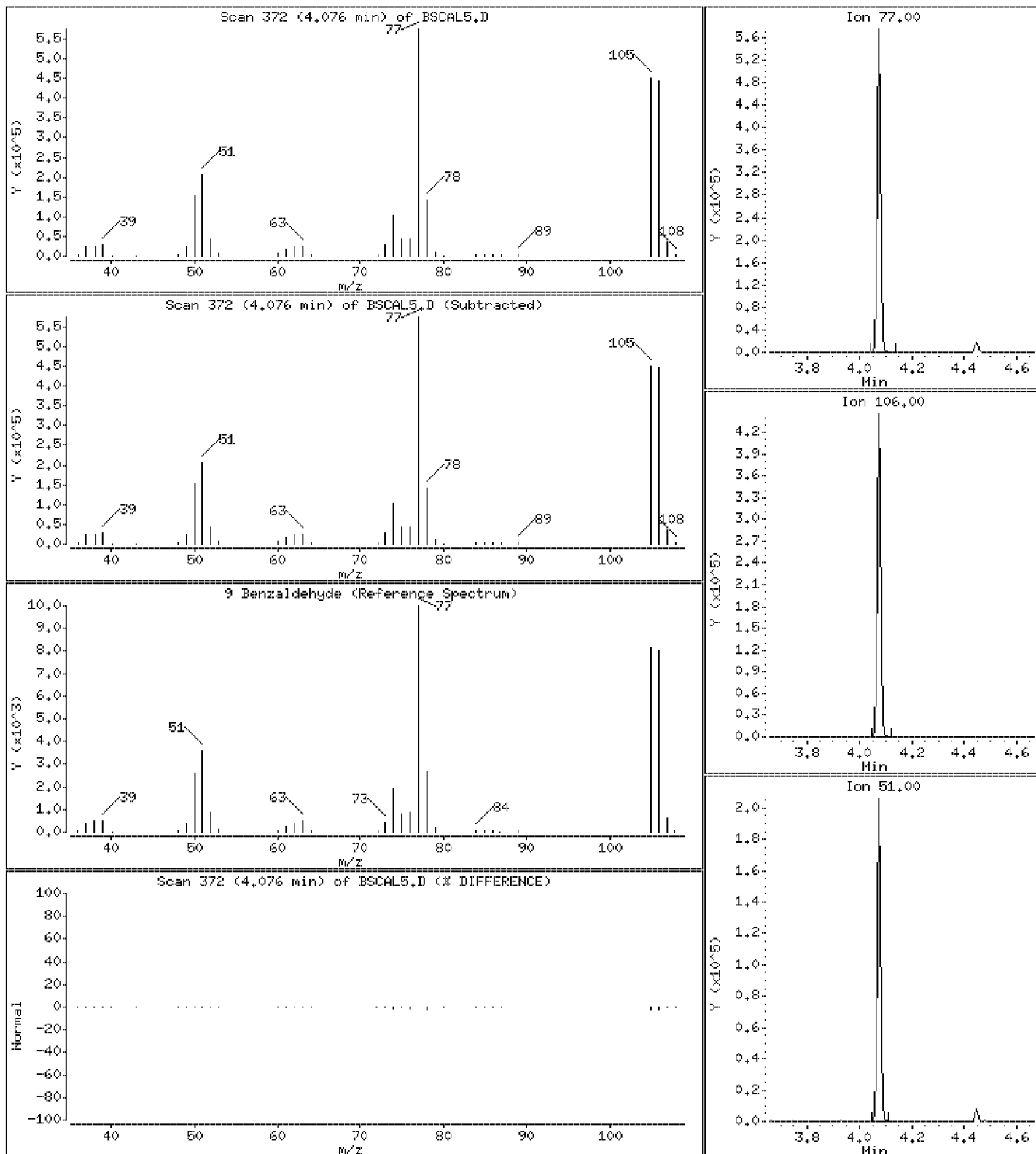
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

9 Benzaldehyde

Concentration: 60.0 ug/l



Date : 23-APR-2012 14:44

Client ID: BSCAL5

Instrument: smsd03.i

Sample Info: 45935

Purge Volume: 1000.0

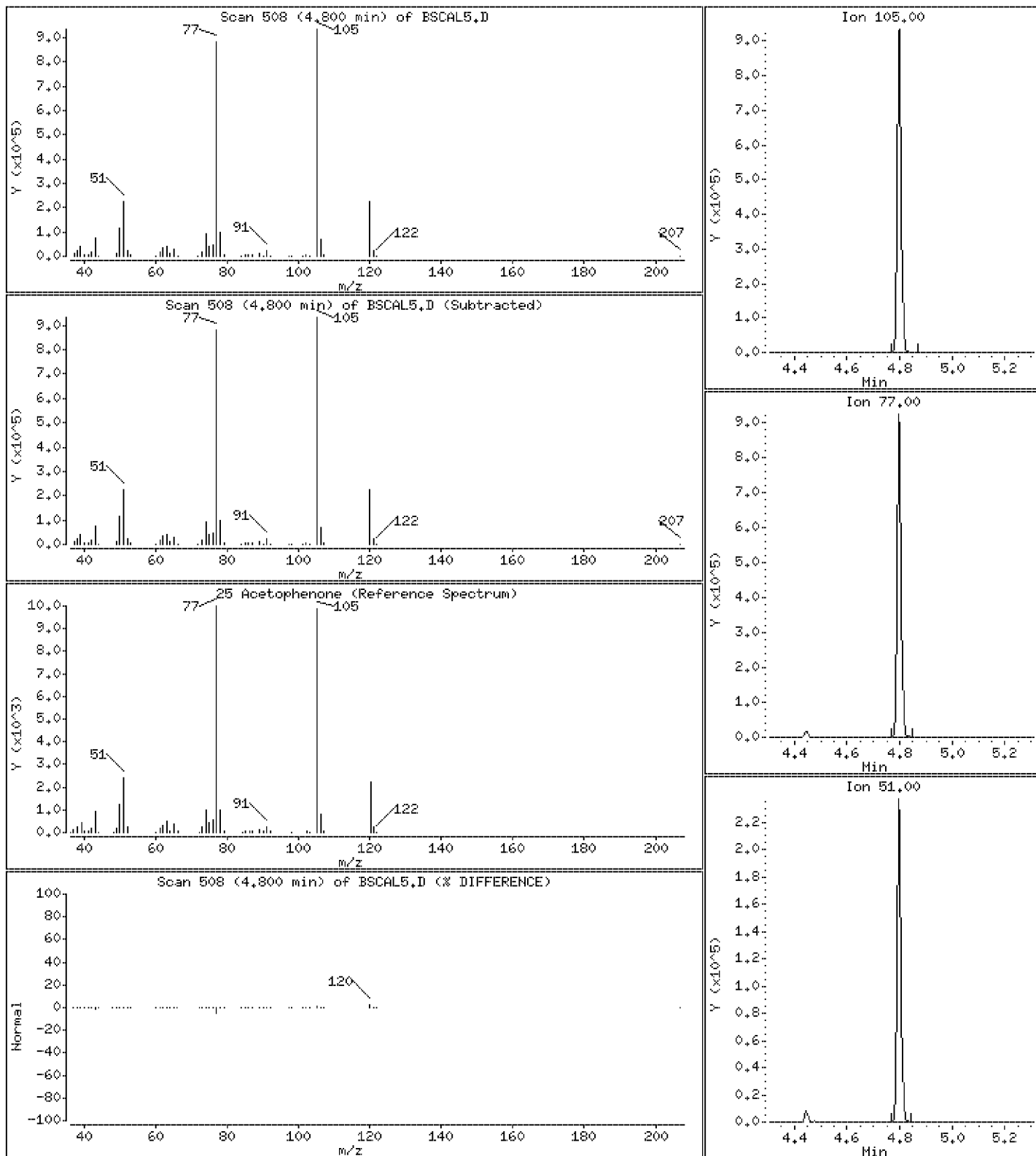
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

25 Acetophenone

Concentration: 64.5 ug/l



Date : 23-APR-2012 14:44

Client ID: BSCAL5

Instrument: smsd03.i

Sample Info: 45935

Purge Volume: 1000.0

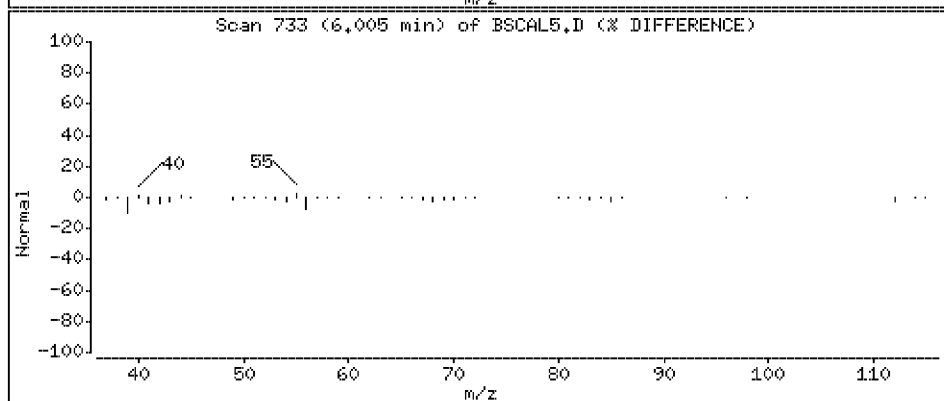
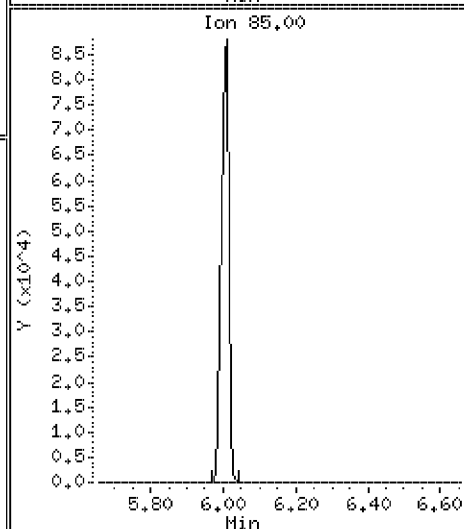
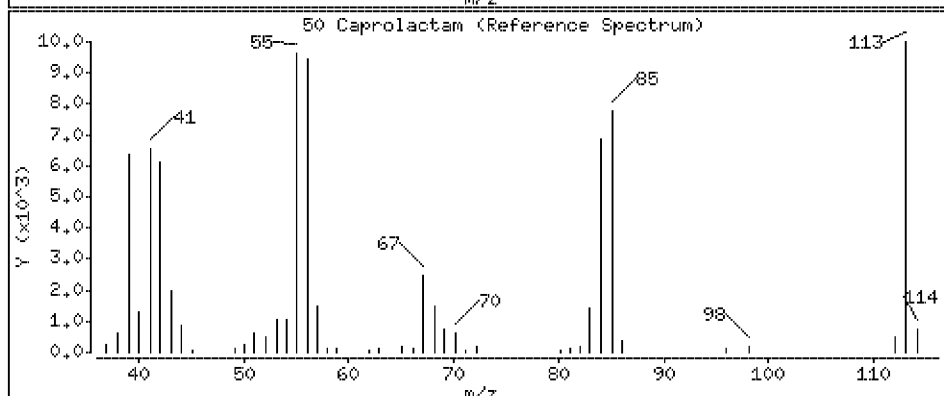
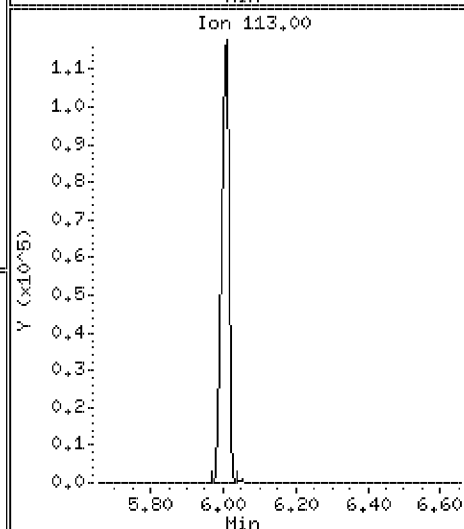
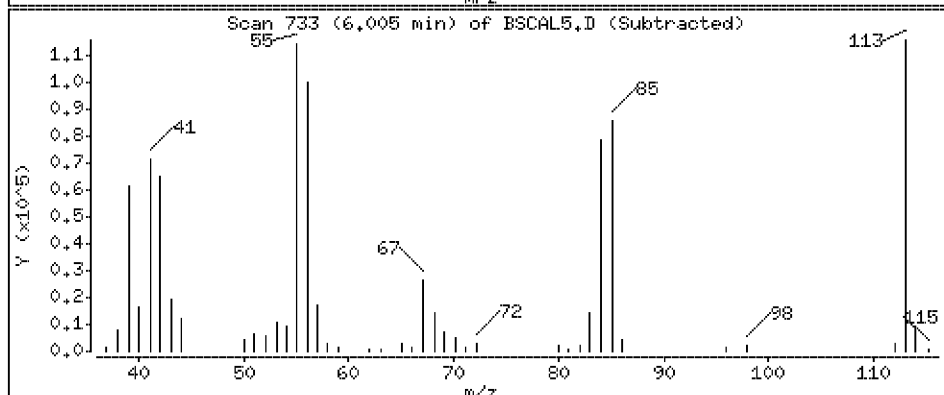
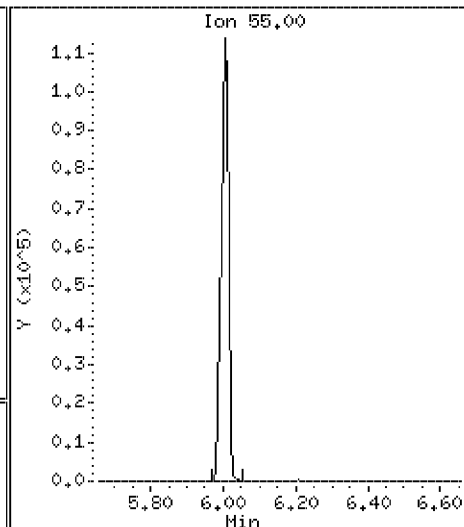
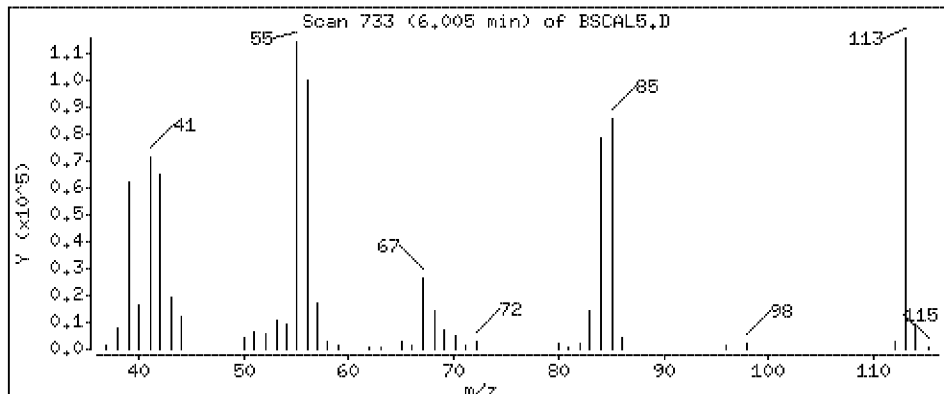
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

50 Caprolactam

Concentration: 57.7 ug/l



Date : 23-APR-2012 14:44

Client ID: BSCAL5

Instrument: smsd03.i

Sample Info: 45935

Purge Volume: 1000.0

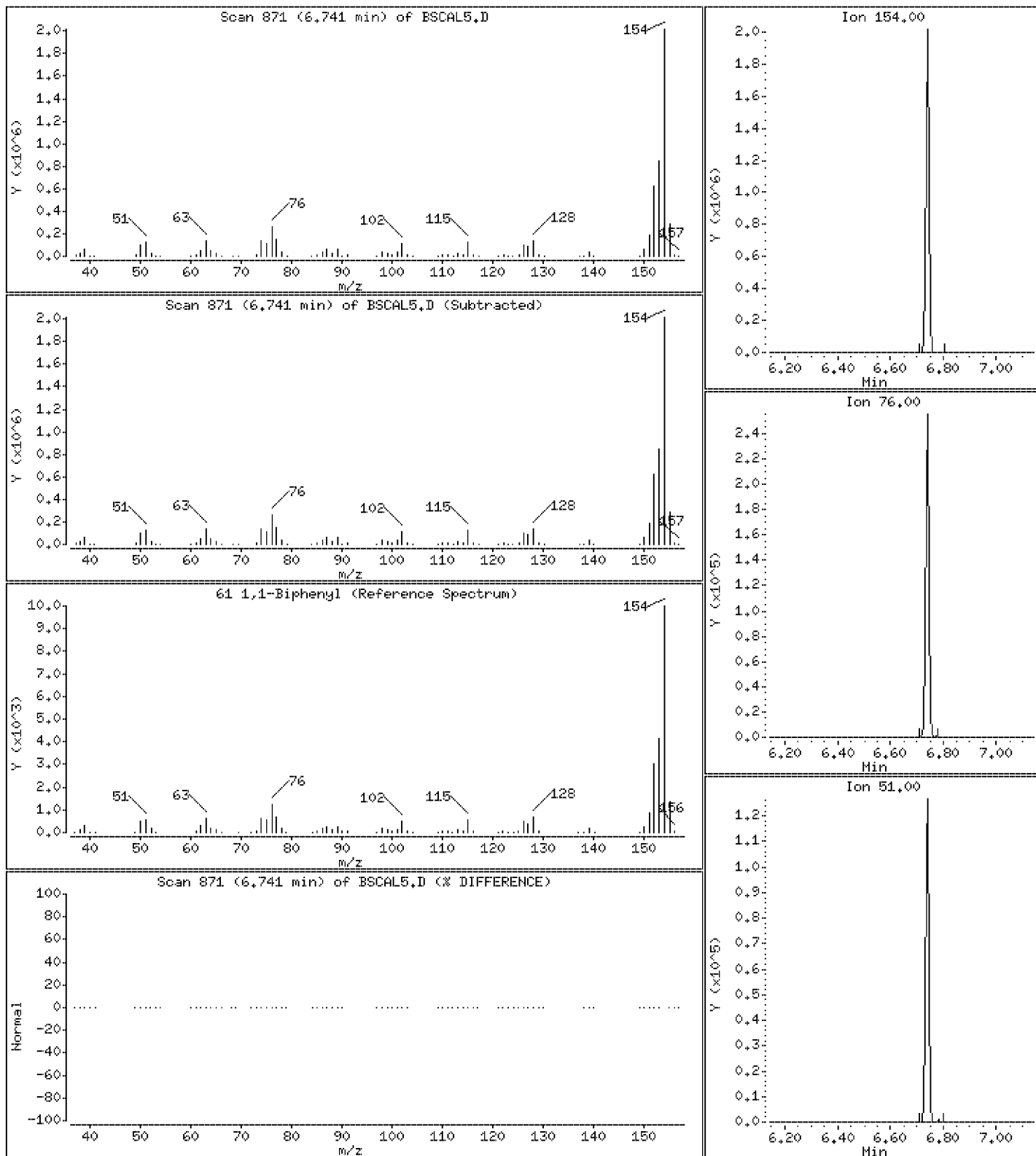
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

61 1,1-Biphenyl

Concentration: 63.2 ug/l



Date : 23-APR-2012 14:44

Client ID: BSCAL5

Instrument: smsd03.i

Sample Info: 45935

Purge Volume: 1000.0

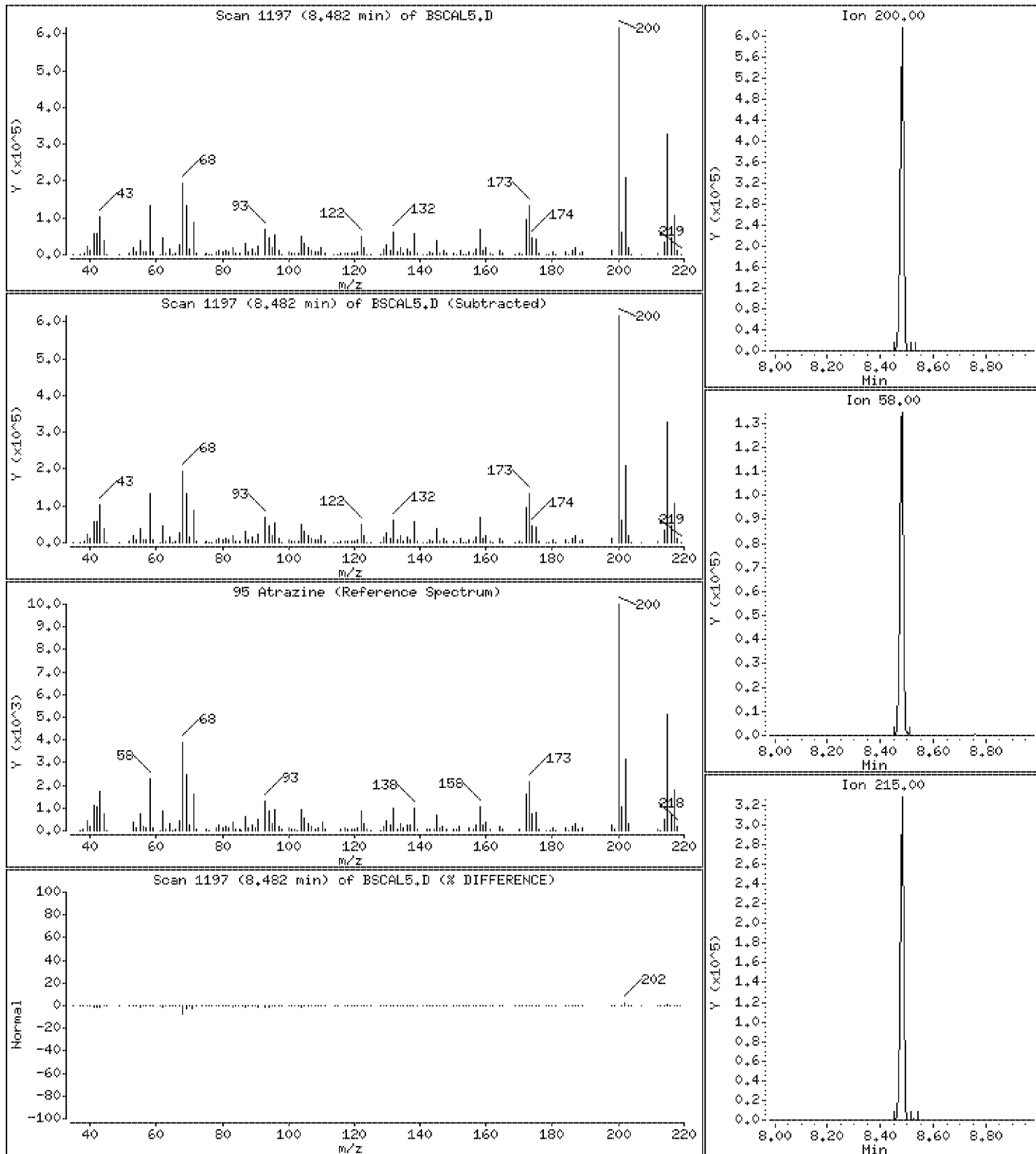
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

95 Atrazine

Concentration: 61.9 ug/l



Date : 23-APR-2012 14:44

Client ID: BSCAL5

Instrument: smsd03.i

Sample Info: 45935

Purge Volume: 1000.0

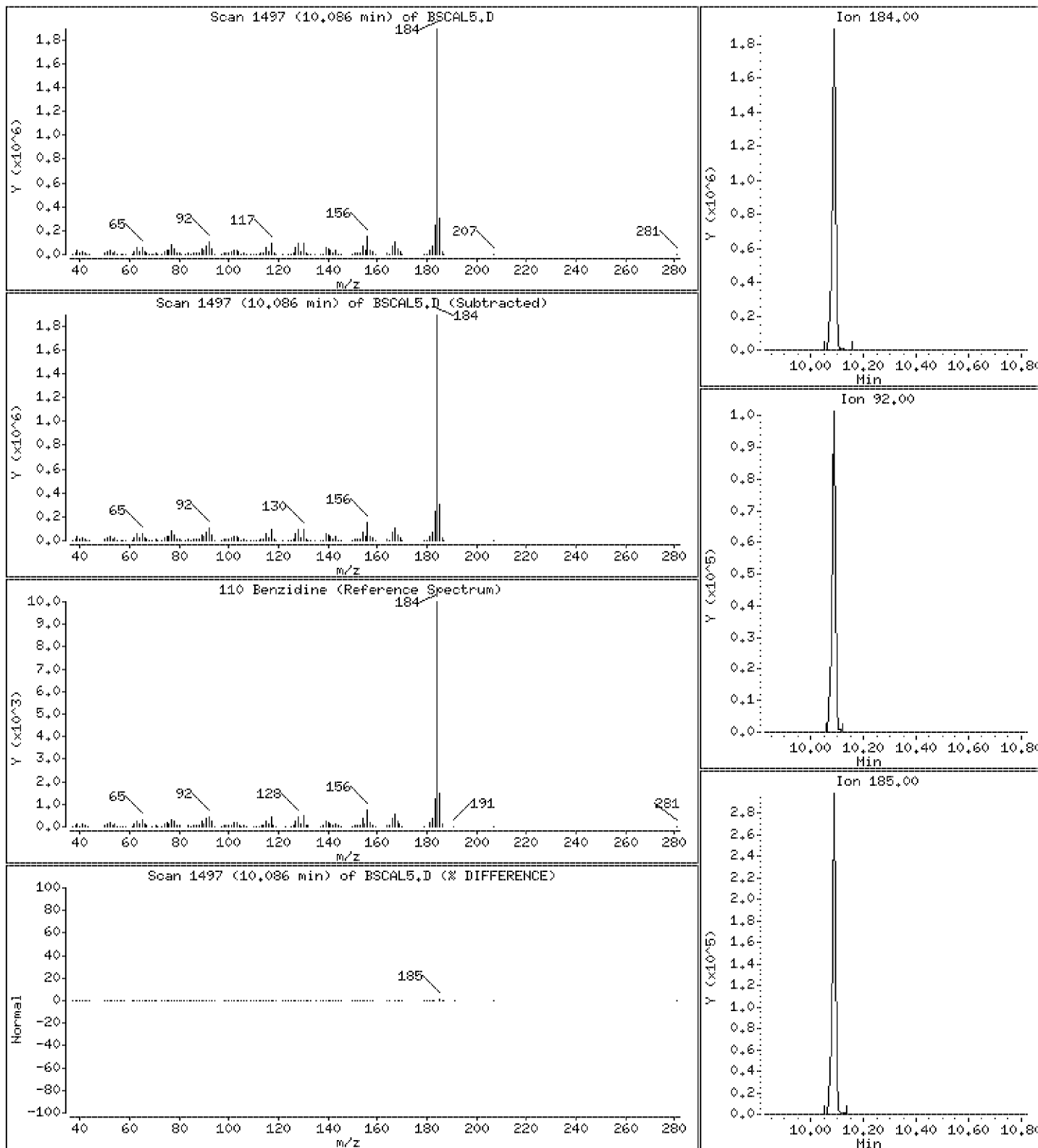
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

110 Benzidine

Concentration: 72,5 ug/l



Date : 23-APR-2012 14:44

Client ID: BSCAL5

Instrument: smsd03.i

Sample Info: 45935

Purge Volume: 1000.0

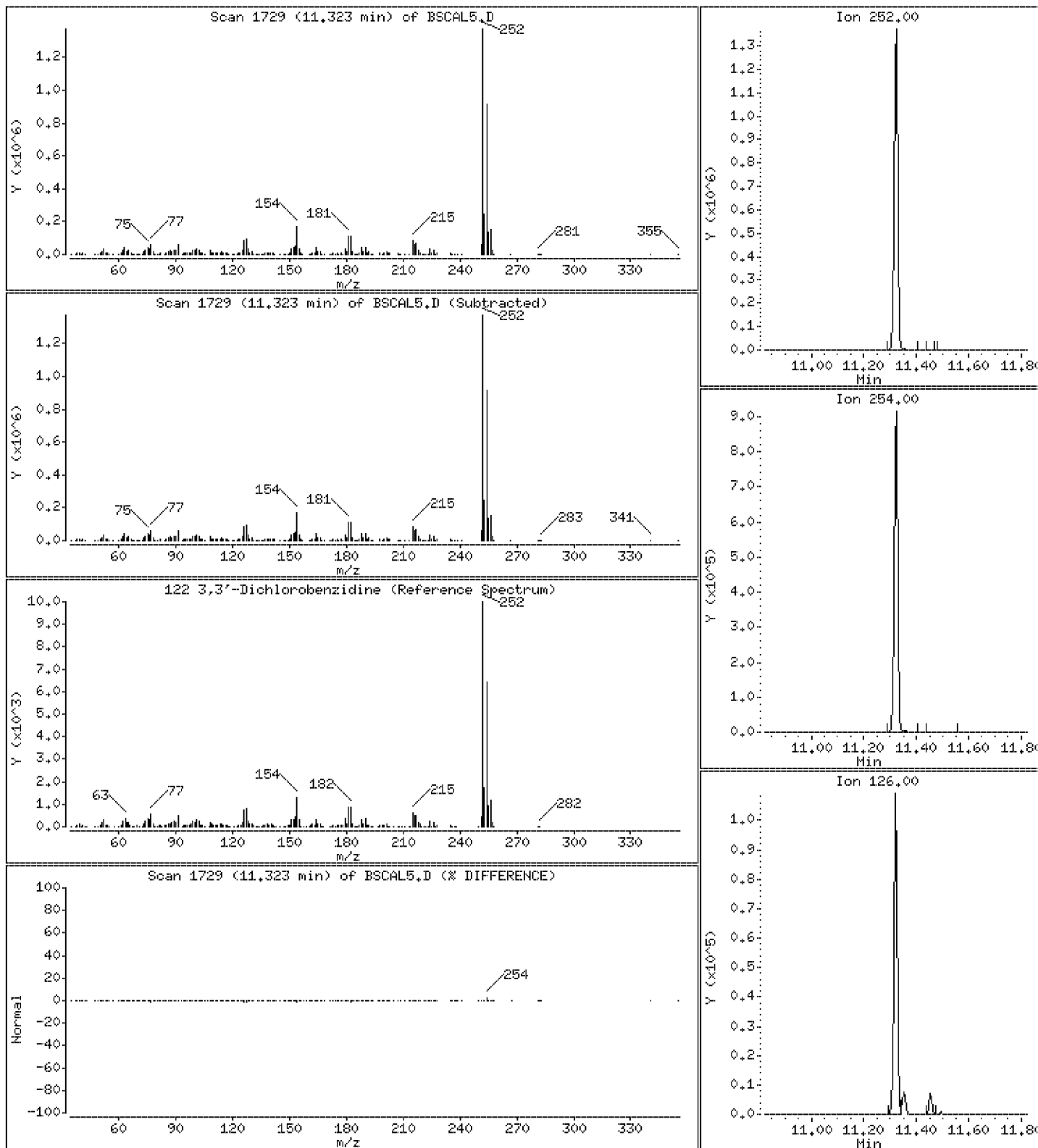
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

122 3,3'-Dichlorobenzidine

Concentration: 62.1 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3042312.b\BSCAL4.D
 Lab Smp Id: 45936 Client Smp ID: BSCAL4
 Inj Date : 23-APR-2012 15:07 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 45936
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270bcs.m
 Meth Date : 25-Apr-2012 09:57 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 13:56 Cal File: BSCAL7.D
 Als bottle: 13 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: BZSOWcal.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
9 Benzaldehyde CAS #: 100-52-7									
4.075	4.161	(0.917)	77	387136	45.0000	47.1	70.00- 130.00	100.00	
4.075	4.161	(0.917)	106	301000			0.00- 30.92	77.75	
4.075	4.161	(0.917)	51	133228			231.65- 291.65	34.41	
* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.446	4.448	(1.000)	152	269674	40.0000		80.00- 120.00	100.00	
4.446	4.448	(1.000)	115	170268			32.20- 92.20	63.14	
4.446	4.448	(1.000)	150	415518			139.77- 199.77	154.08	
25 Acetophenone CAS #: 98-86-2									
4.798	4.807	(0.856)	105	628941	45.0000	45.8	70.00- 130.00	100.00	
4.798	4.807	(0.856)	77	626825			4410.01-4470.01	99.66	
4.798	4.807	(0.856)	51	157790			1262.06-1322.06	25.09	
* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.607	5.610	(1.000)	136	911843	40.0000		80.00- 120.00	100.00	
5.607	5.610	(1.000)	68	49152			0.00- 35.51	5.39	
50 Caprolactam CAS #: 105-60-2									
6.001	6.158	(1.070)	55	118320	45.0000	45.1	70.00- 130.00	100.00	
6.002	6.158	(1.070)	113	124865			106.52- 166.52	105.53	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
50 Caprolactam (continued)								
6.001	6.158	(1.070)	85	92187			55.05- 115.05	77.91

61 1,1-Biphenyl								
						CAS #: 92-52-4		
6.740	6.642	(0.923)	154	1183096	45.0000	45.6	70.00- 130.00	100.00
6.739	6.642	(0.923)	76	152783			1762.39-1822.39	12.91
6.738	6.642	(0.923)	51	73980			1618.22-1678.22	6.25

* 70 Acenaphthene-d10								
						CAS #: 15067-26-2		
7.303	7.305	(1.000)	164	651751	40.0000		80.00- 120.00	100.00
7.303	7.305	(1.000)	162	611060			64.73- 124.73	93.76
7.303	7.305	(1.000)	160	277144			12.46- 72.46	42.52

95 Atrazine								
						CAS #: 1912-24-9		
8.479	8.479	(0.968)	200	386956	45.0000	46.7	80.00- 120.00	100.00
8.478	8.479	(0.968)	58	85828			0.00- 52.18	22.18
8.479	8.479	(0.968)	215	202157			22.24- 82.24	52.24

* 100 Phenanthrene-d10								
						CAS #: 1517-22-2		
8.758	8.761	(1.000)	188	1236842	40.0000		80.00- 120.00	100.00
8.757	8.761	(1.000)	94	78189			0.00- 36.35	6.32
8.757	8.761	(1.000)	80	95674			0.00- 37.82	7.74

110 Benzidine								
						CAS #: 92-87-5		
10.084	10.322	(0.888)	184	1206252	45.0000	48.3	70.00- 130.00	100.00
10.082	10.322	(0.888)	92	60029			36.43- 96.43	4.98
10.084	10.322	(0.888)	185	176858			0.00- 47.46	14.66

122 3,3'-Dichlorobenzidine								
						CAS #: 91-94-1		
11.321	11.321	(0.997)	252	902575	45.0000	47.9	80.00- 120.00	100.00
11.321	11.321	(0.997)	254	585096			34.83- 94.83	64.83
11.320	11.321	(0.997)	126	63893			0.00- 37.08	7.08

* 121 Chrysene-d12								
						CAS #: 1719-03-5		
11.354	11.359	(1.000)	240	1626692	40.0000		80.00- 120.00	100.00
11.353	11.359	(1.000)	120	87654			0.00- 36.38	5.39
11.354	11.359	(1.000)	236	429700			0.00- 57.06	26.42

* 130 Perylene-d12								
						CAS #: 1520-96-3		
12.682	12.682	(1.000)	264	1675798	40.0000		80.00- 120.00	100.00
12.682	12.682	(1.000)	260	405527			0.00- 54.80	24.20
12.681	12.682	(1.000)	265	375564			0.00- 53.39	22.41

Date : 23-APR-2012 15:07

Client ID: BSCAL4

Instrument: smsd03.i

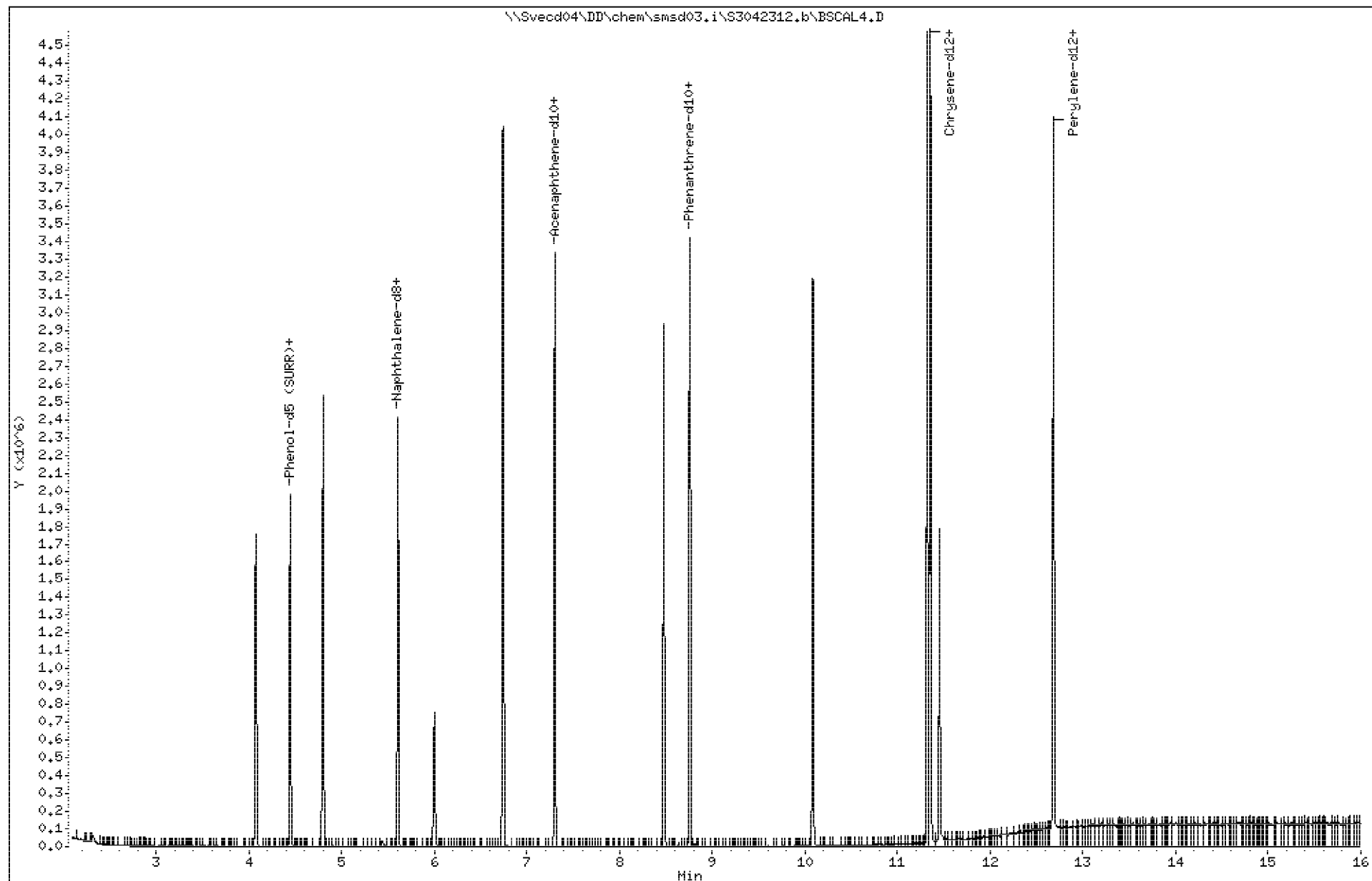
Sample Info: 45936

Operator: PEL

Purge Volume: 1000.0

Column diameter: 0.25

Column phase: HPMS-5



Date : 23-APR-2012 15:07

Client ID: BSCAL4

Instrument: smsd03.i

Sample Info: 45936

Purge Volume: 1000.0

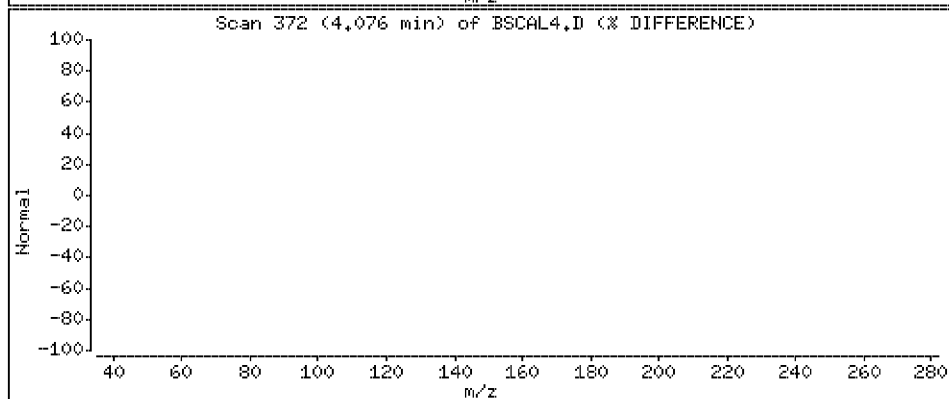
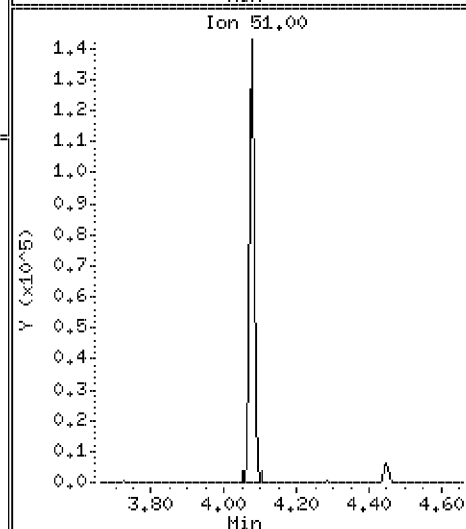
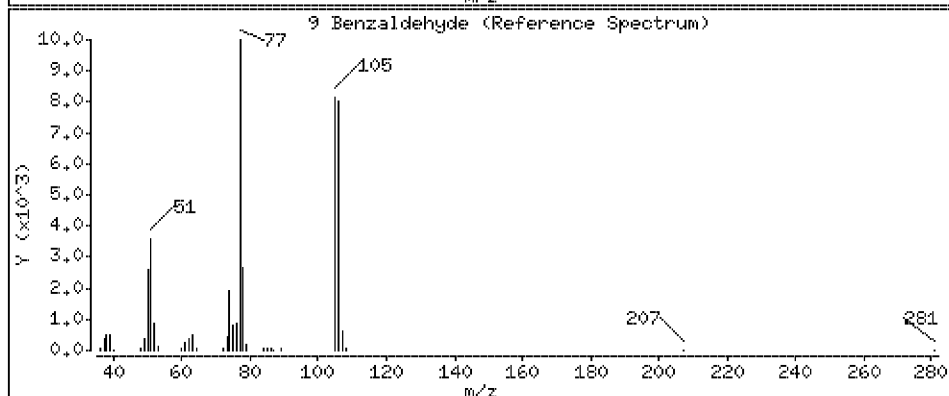
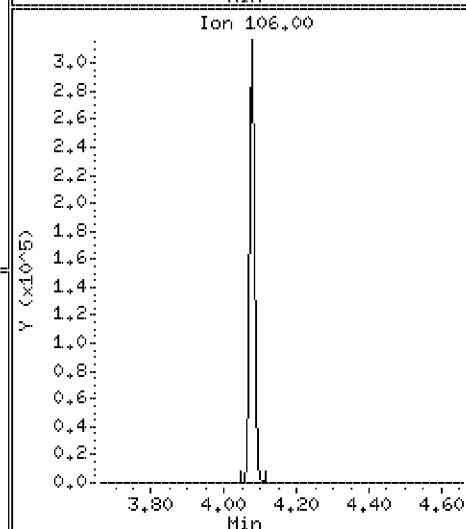
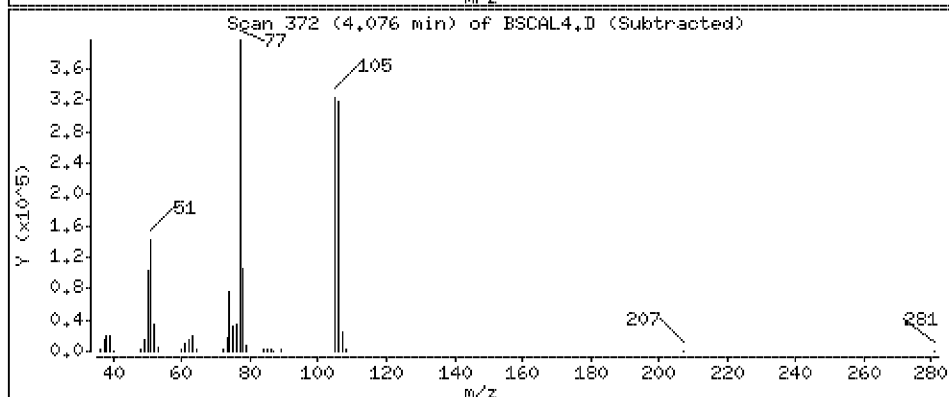
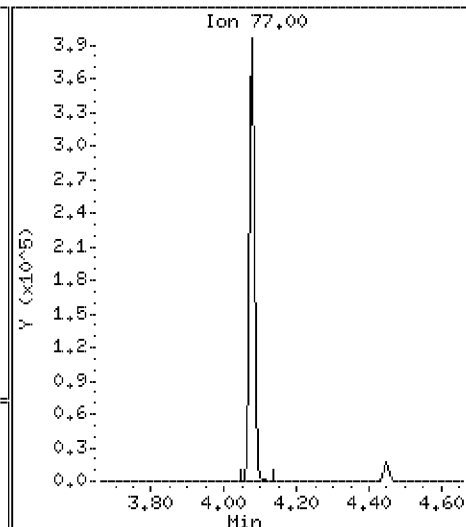
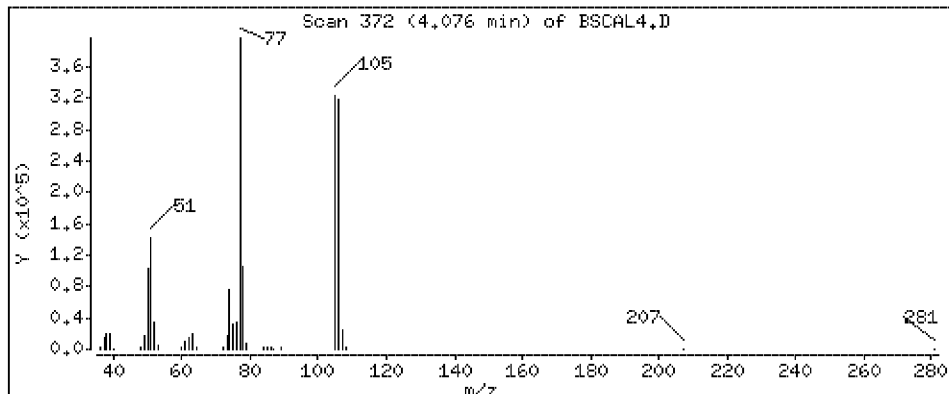
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

9 Benzaldehyde

Concentration: 47.1 ug/l



Date : 23-APR-2012 15:07

Client ID: BSCAL4

Instrument: smsd03.i

Sample Info: 45936

Purge Volume: 1000.0

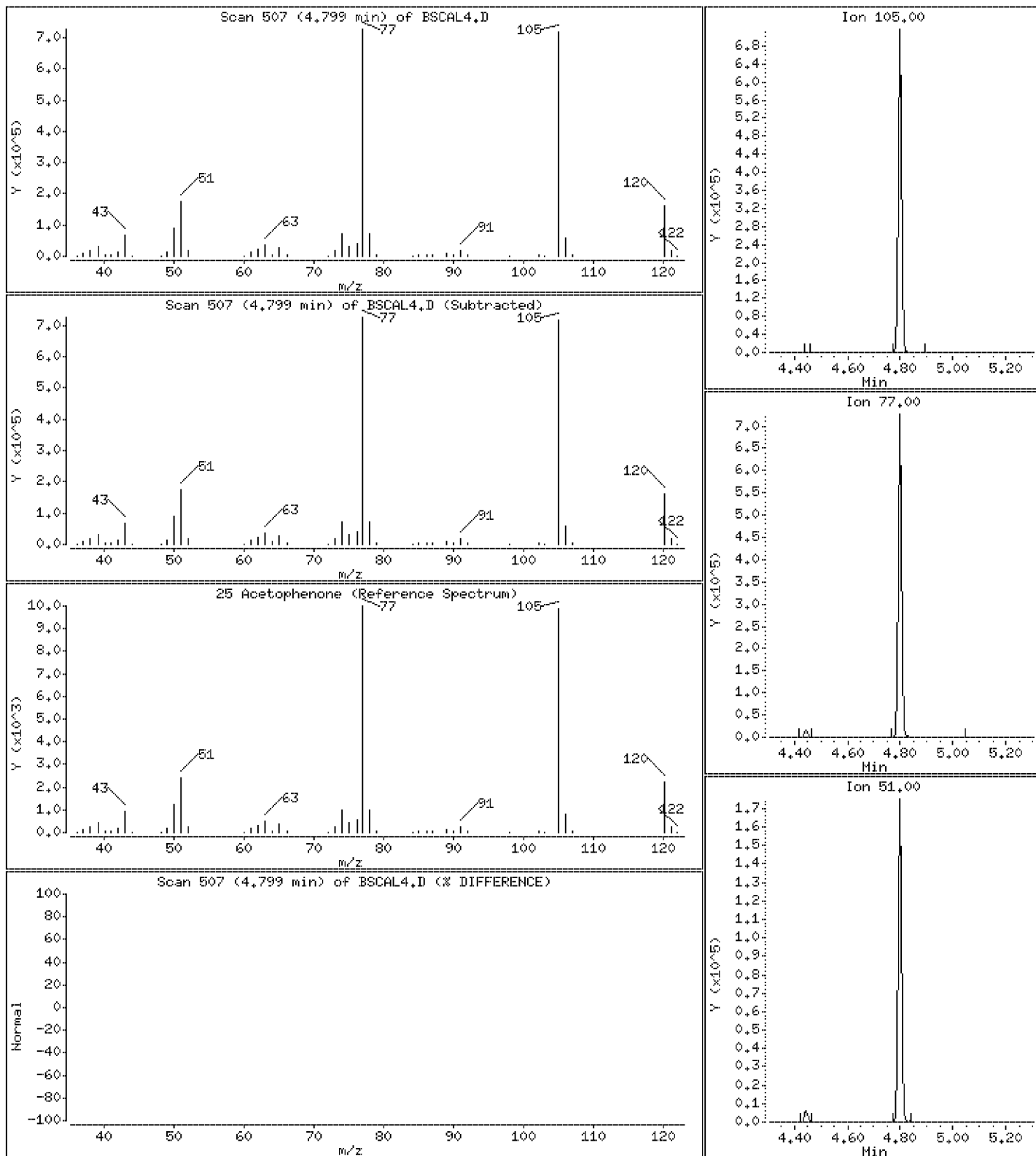
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

25 Acetophenone

Concentration: 45.8 ug/l



Date : 23-APR-2012 15:07

Client ID: BSCAL4

Instrument: smsd03.i

Sample Info: 45936

Purge Volume: 1000.0

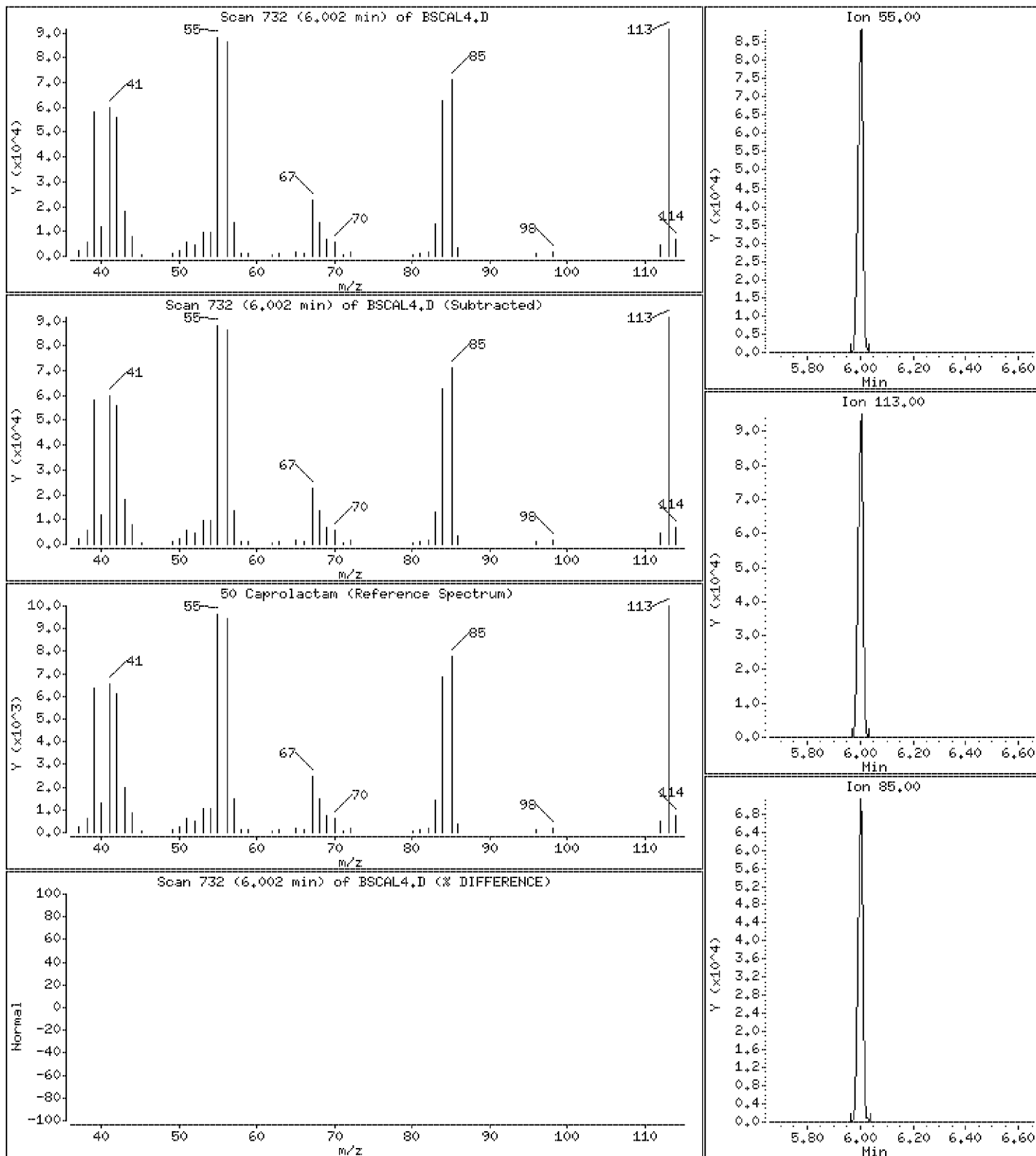
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

50 Caprolactam

Concentration: 45.1 ug/l



Date : 23-APR-2012 15:07

Client ID: BSCAL4

Instrument: smsd03.i

Sample Info: 45936

Purge Volume: 1000.0

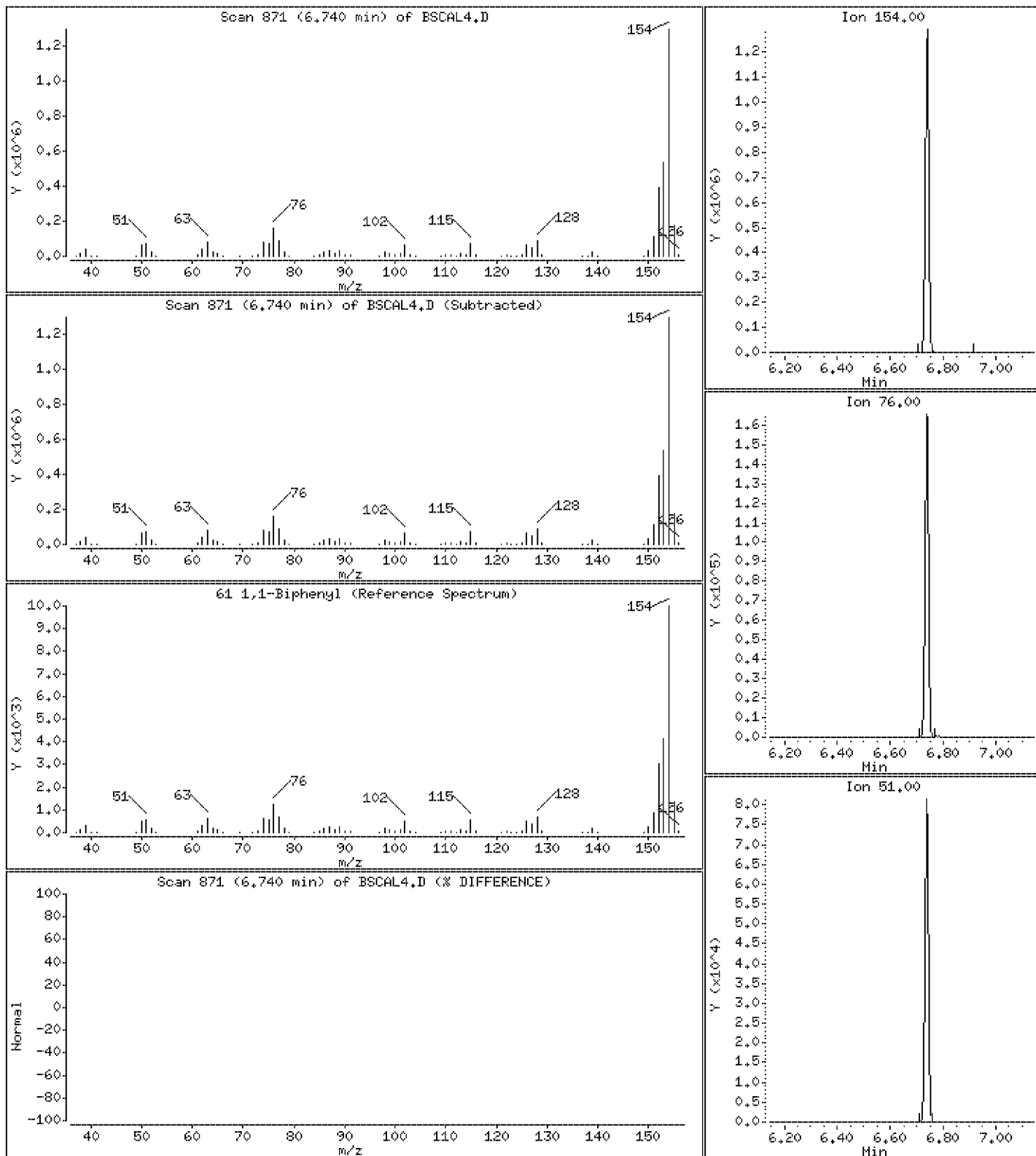
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

61 1,1-Biphenyl

Concentration: 45.6 ug/l



Date : 23-APR-2012 15:07

Client ID: BSCAL4

Instrument: smsd03.i

Sample Info: 45936

Purge Volume: 1000.0

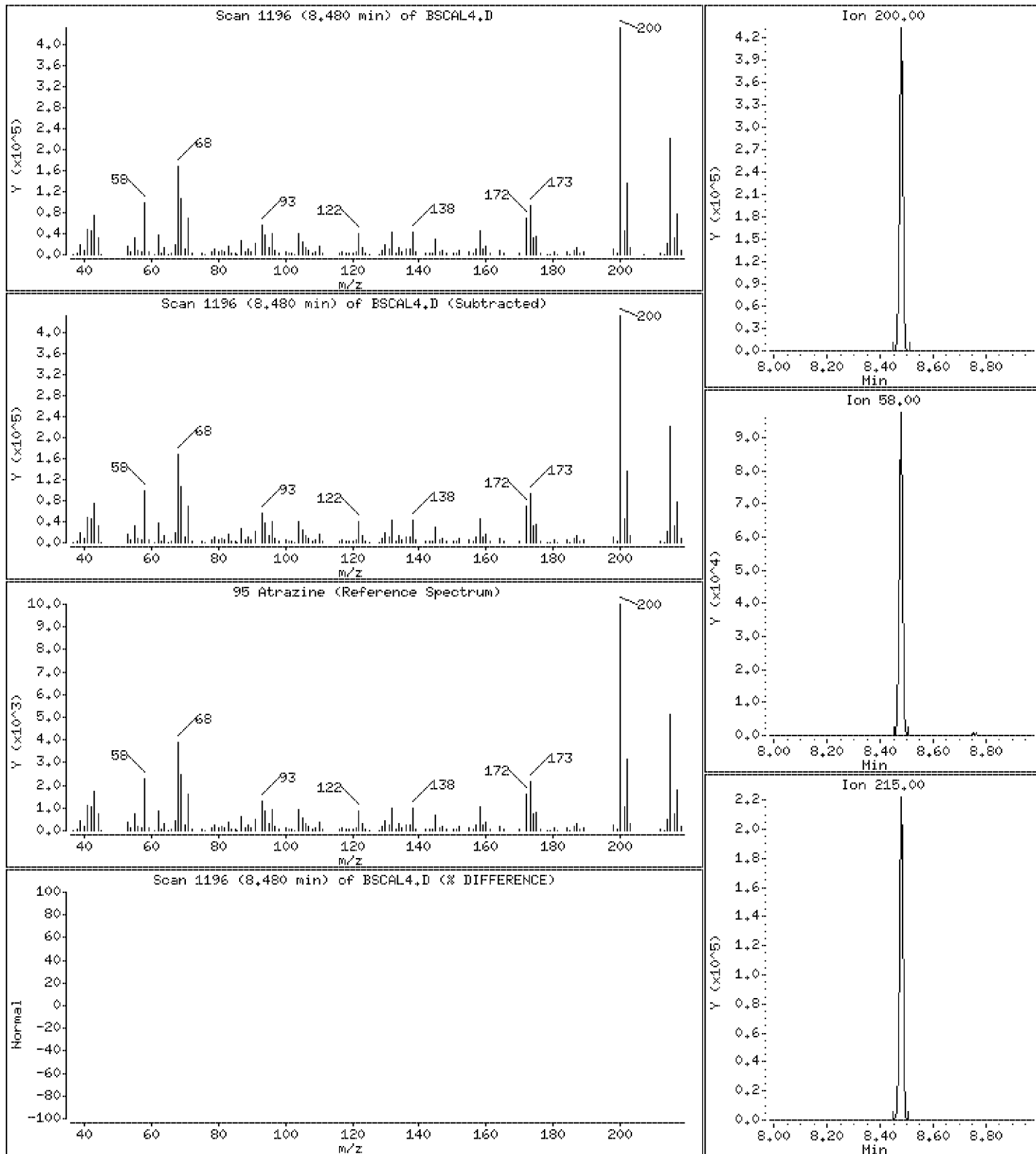
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

95 Atrazine

Concentration: 46.7 ug/l



Date : 23-APR-2012 15:07

Client ID: BSCAL4

Instrument: smsd03.i

Sample Info: 45936

Purge Volume: 1000.0

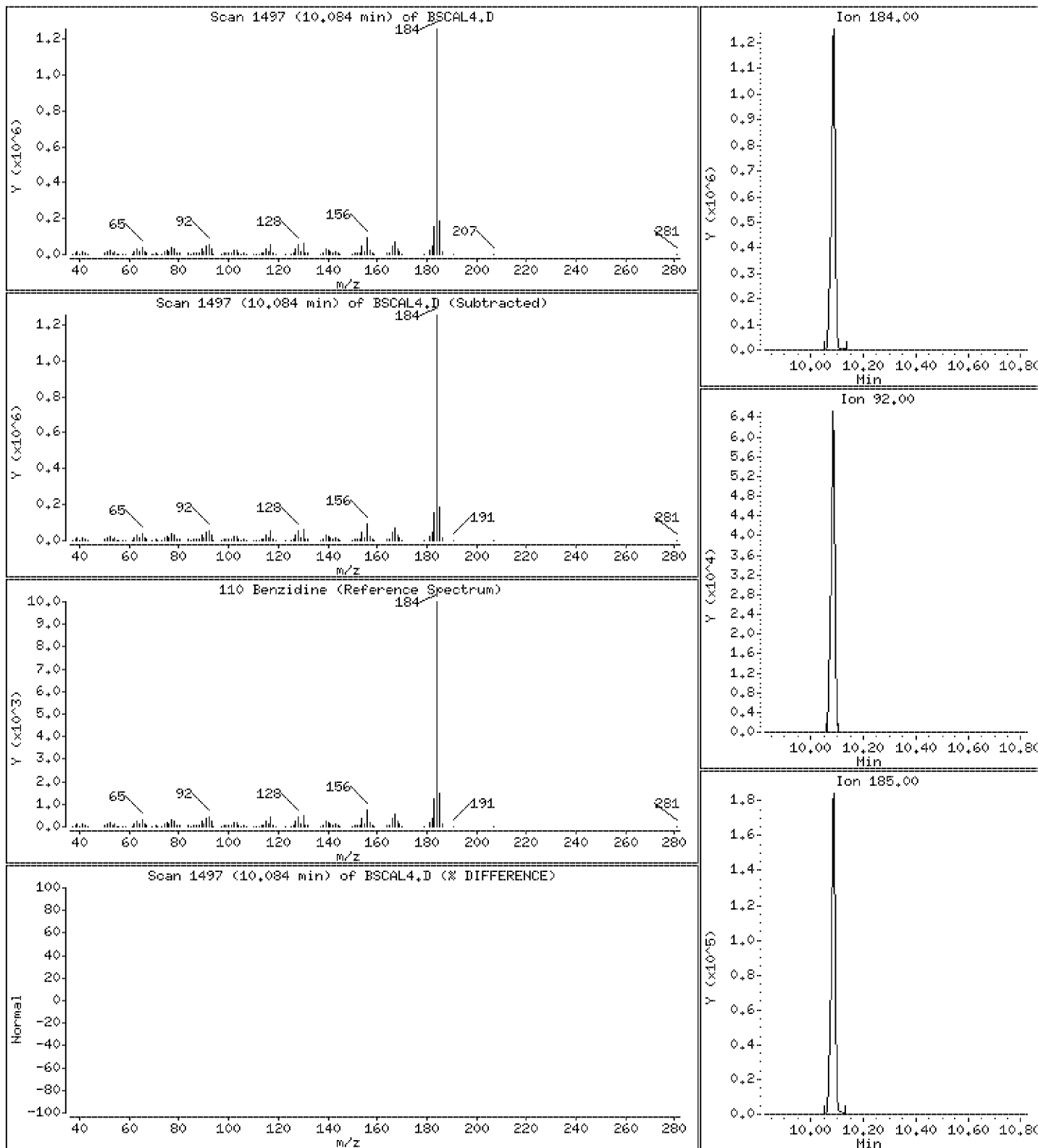
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

110 Benzidine

Concentration: 48.3 ug/l



Date : 23-APR-2012 15:07

Client ID: BSCAL4

Instrument: smsd03.i

Sample Info: 45936

Purge Volume: 1000.0

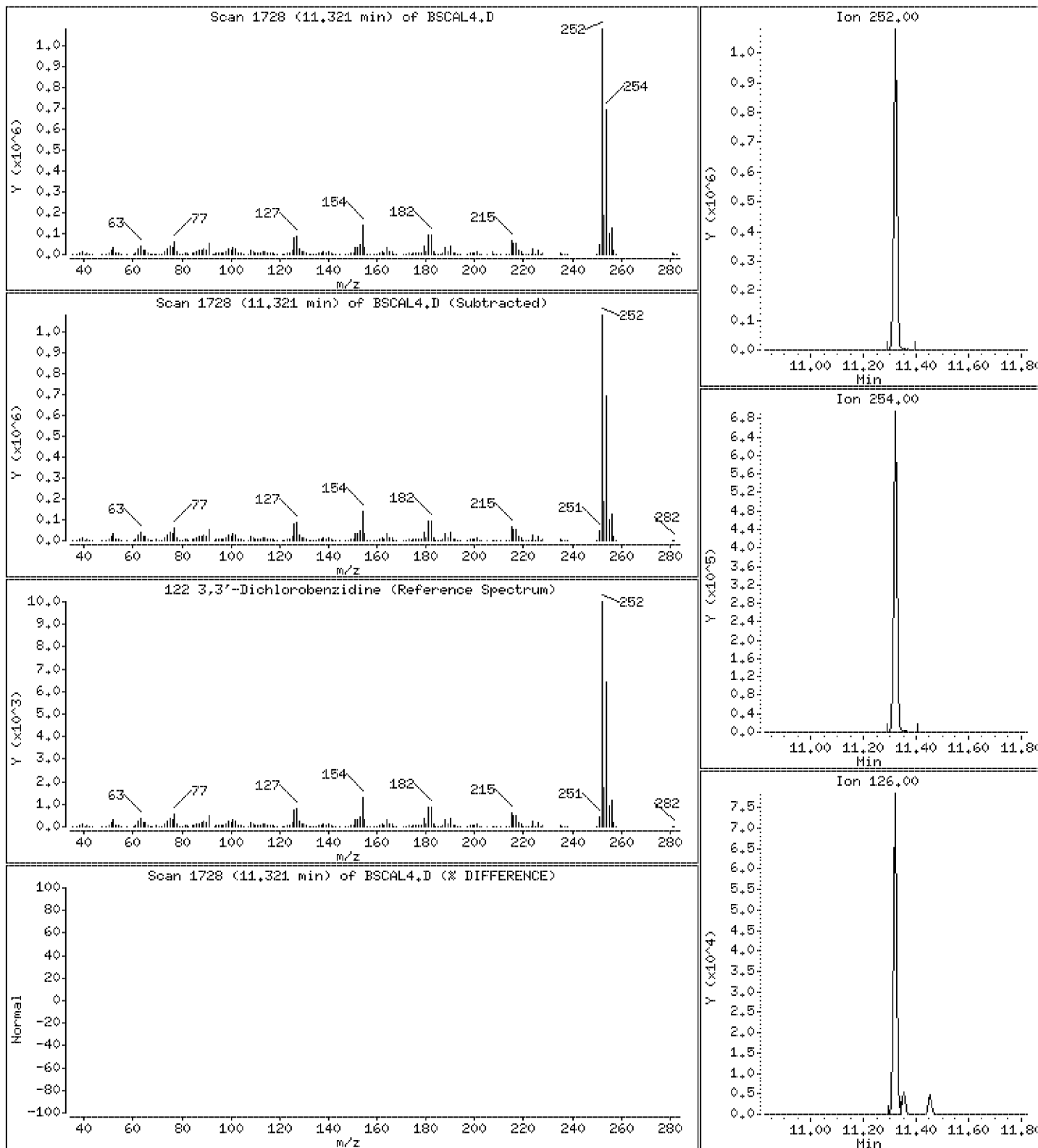
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

122 3,3'-Dichlorobenzidine

Concentration: 47.9 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3042312.b\BSCAL3.D
 Lab Smp Id: 45937 Client Smp ID: BSCAL3
 Inj Date : 23-APR-2012 15:31 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 45937
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270bcs.m
 Meth Date : 25-Apr-2012 09:57 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 15:07 Cal File: BSCAL4.D
 Als bottle: 14 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: BZSOWcal.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
9 Benzaldehyde CAS #: 100-52-7									
4.076	4.161	(0.917)	77	180533	20.0000	19.5	70.00- 130.00	100.00	
4.076	4.161	(0.917)	106	135477			0.00- 30.92	75.04	
4.075	4.161	(0.916)	51	63408			231.65- 291.65	35.12	
* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.447	4.448	(1.000)	152	303951	40.0000		80.00- 120.00	100.00	
4.446	4.448	(1.000)	115	185770			32.20- 92.20	61.12	
4.447	4.448	(1.000)	150	446834			139.77- 199.77	147.01	
25 Acetophenone CAS #: 98-86-2									
4.798	4.807	(0.856)	105	285261	20.0000	19.5	70.00- 130.00	100.00	
4.798	4.807	(0.856)	77	284319			4410.01-4470.01	99.67	
4.798	4.807	(0.856)	51	70612			1262.06-1322.06	24.75	
* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.607	5.610	(1.000)	136	986683	40.0000		80.00- 120.00	100.00	
5.606	5.610	(1.000)	68	53451			0.00- 35.51	5.42	
50 Caprolactam CAS #: 105-60-2									
5.992	6.158	(1.069)	55	49950	20.0000	19.6	70.00- 130.00	100.00	
5.992	6.158	(1.069)	113	51961			106.52- 166.52	104.03	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
50 Caprolactam (continued)								
5.993	6.158	(1.069)	85	39145			55.05- 115.05	78.37

61 1,1-Biphenyl								
						CAS #: 92-52-4		
6.738	6.642	(0.923)	154	523240	20.0000	19.3	70.00- 130.00	100.00
6.737	6.642	(0.923)	76	63487			1762.39-1822.39	12.13
6.736	6.642	(0.922)	51	32299			1618.22-1678.22	6.17

* 70 Acenaphthene-d10								
						CAS #: 15067-26-2		
7.303	7.305	(1.000)	164	680459	40.0000		80.00- 120.00	100.00
7.303	7.305	(1.000)	162	665448			64.73- 124.73	97.79
7.303	7.305	(1.000)	160	304312			12.46- 72.46	44.72

95 Atrazine								
						CAS #: 1912-24-9		
8.476	8.479	(0.968)	200	170987	20.0000	19.1	80.00- 120.00	100.00
8.475	8.479	(0.968)	58	36850			0.00- 52.18	21.55
8.476	8.479	(0.968)	215	89387			22.24- 82.24	52.28

* 100 Phenanthrene-d10								
						CAS #: 1517-22-2		
8.758	8.761	(1.000)	188	1333253	40.0000		80.00- 120.00	100.00
8.758	8.761	(1.000)	94	83805			0.00- 36.35	6.29
8.758	8.761	(1.000)	80	101996			0.00- 37.82	7.65

110 Benzidine								
						CAS #: 92-87-5		
10.082	10.322	(0.888)	184	495866	20.0000	21.4	70.00- 130.00	100.00
10.081	10.322	(0.888)	92	22734			36.43- 96.43	4.58
10.082	10.322	(0.888)	185	73868			0.00- 47.46	14.90

122 3,3'-Dichlorobenzidine								
						CAS #: 91-94-1		
11.319	11.321	(0.997)	252	383072	20.0000	18.9	80.00- 120.00	100.00
11.319	11.321	(0.997)	254	236654			34.83- 94.83	61.78
11.318	11.321	(0.997)	126	26827			0.00- 37.08	7.00

* 121 Chrysene-d12								
						CAS #: 1719-03-5		
11.355	11.359	(1.000)	240	1724941	40.0000		80.00- 120.00	100.00
11.354	11.359	(1.000)	120	90604			0.00- 36.38	5.25
11.355	11.359	(1.000)	236	461313			0.00- 57.06	26.74

* 130 Perylene-d12								
						CAS #: 1520-96-3		
12.681	12.682	(1.000)	264	1731071	40.0000		80.00- 120.00	100.00
12.681	12.682	(1.000)	260	440060			0.00- 54.80	25.42
12.681	12.682	(1.000)	265	409387			0.00- 53.39	23.65

Date : 23-APR-2012 15:31

Client ID: BSCAL3

Instrument: smsd03.i

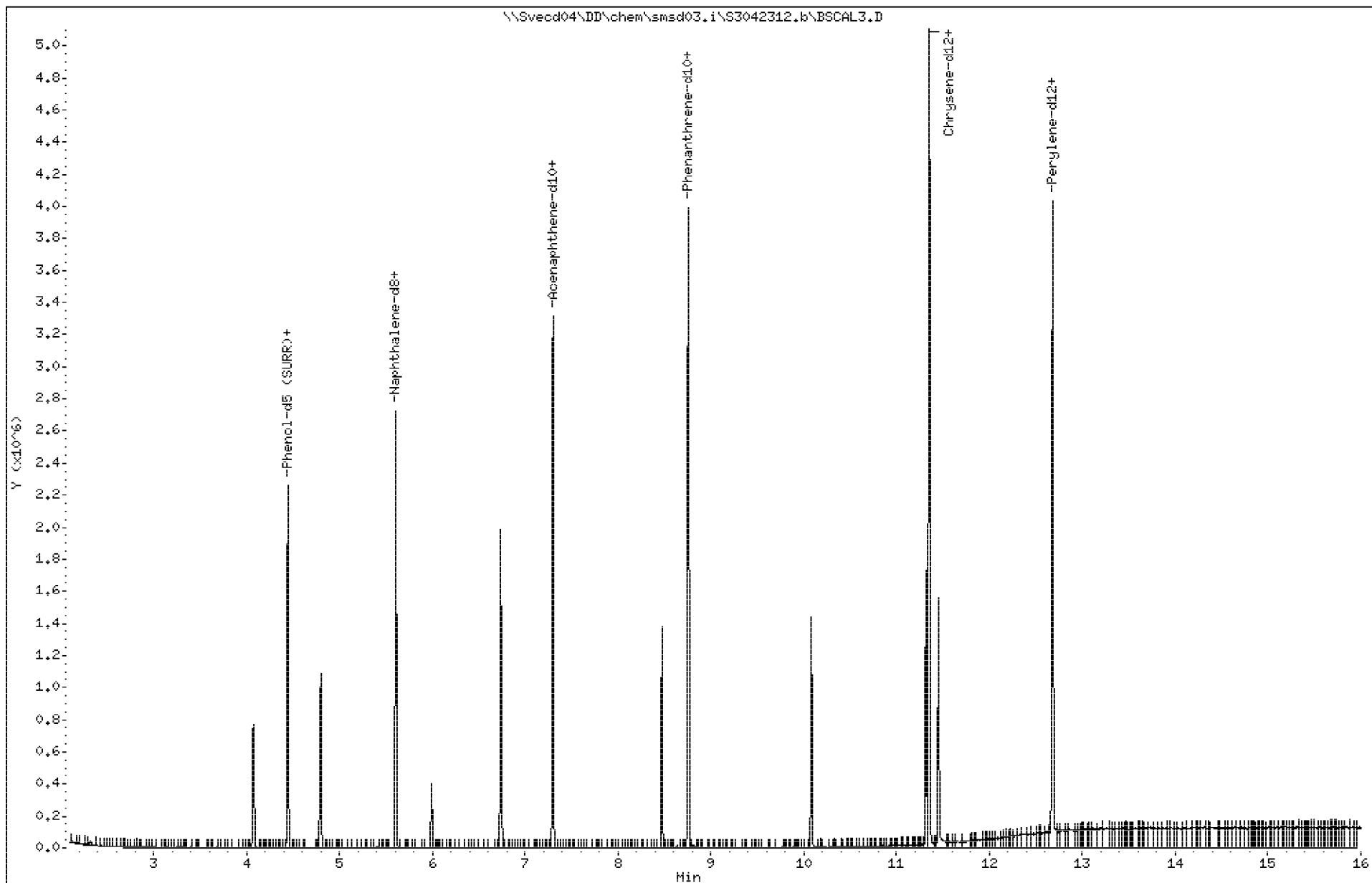
Sample Info: 45937

Operator: PEL

Purge Volume: 1000.0

Column diameter: 0.25

Column phase: HPMS-5



Date : 23-APR-2012 15:31

Client ID: BSCAL3

Instrument: smsd03.i

Sample Info: 45937

Purge Volume: 1000.0

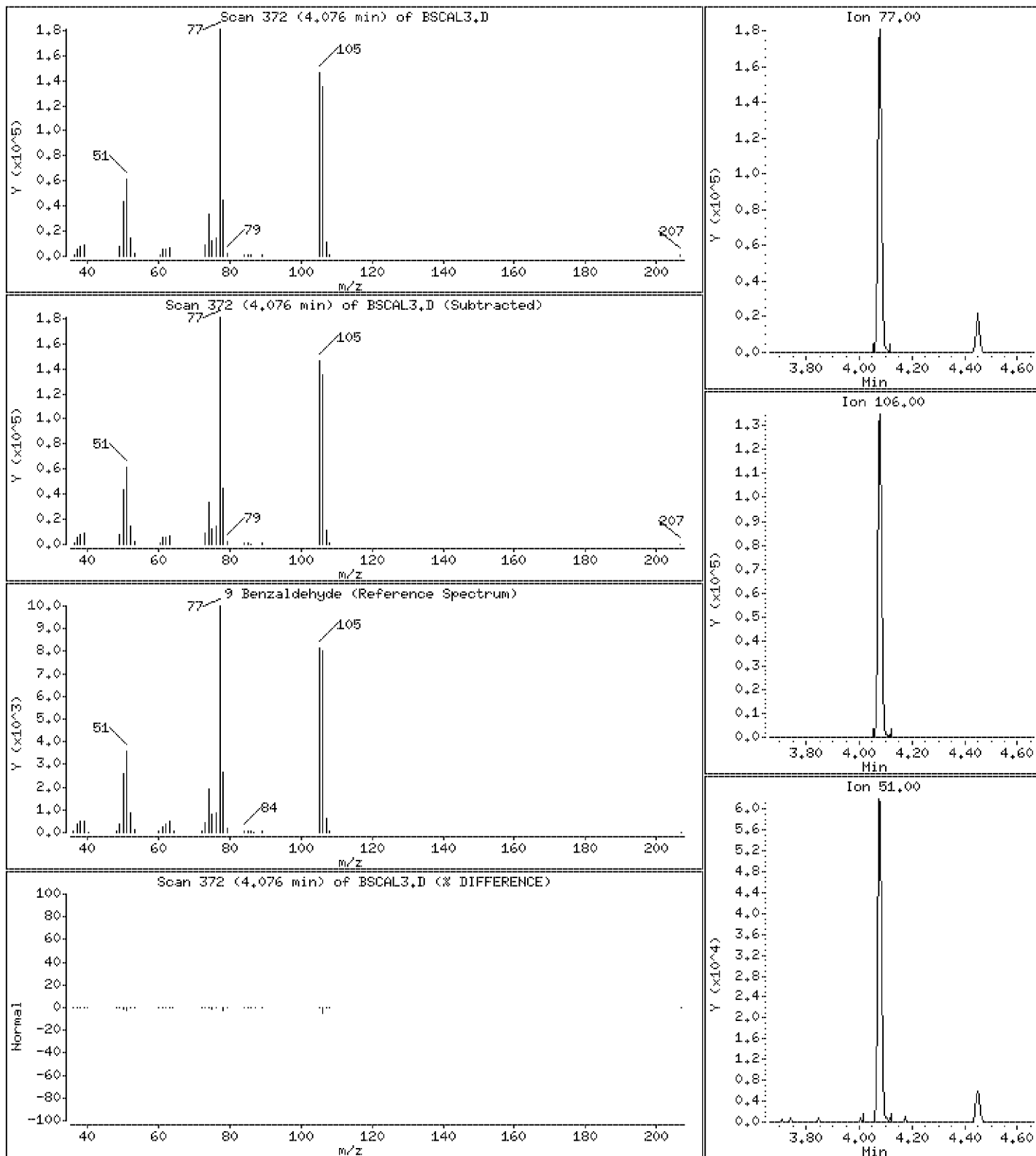
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

9 Benzaldehyde

Concentration: 19.5 ug/l



Date : 23-APR-2012 15:31

Client ID: BSCAL3

Instrument: smsd03.i

Sample Info: 45937

Purge Volume: 1000.0

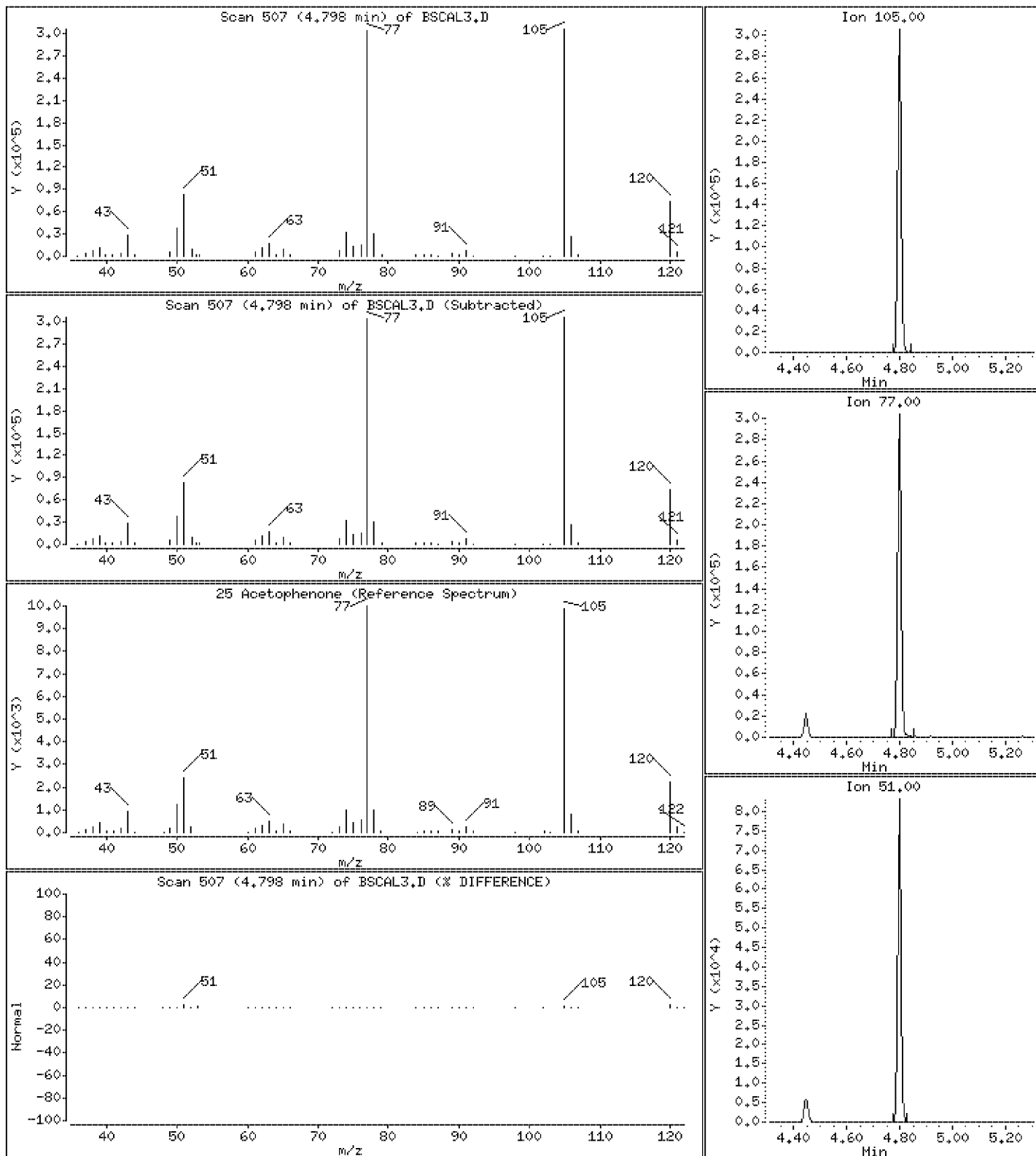
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

25 Acetophenone

Concentration: 19.5 ug/l



Date : 23-APR-2012 15:31

Client ID: BSCAL3

Instrument: smsd03.i

Sample Info: 45937

Purge Volume: 1000.0

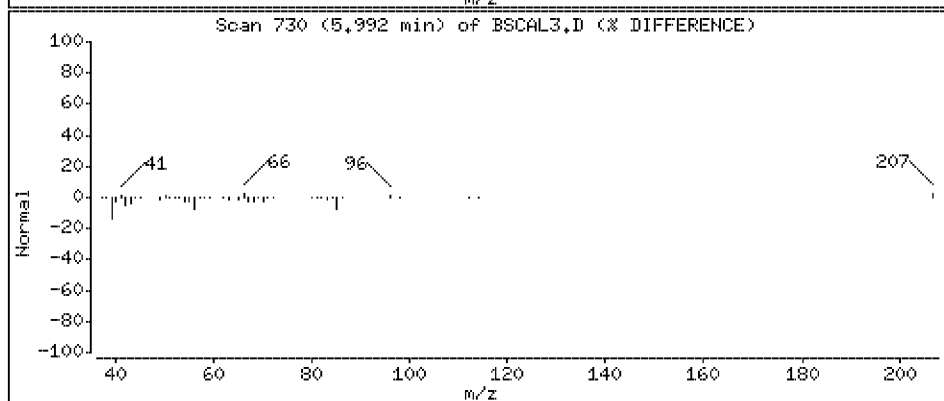
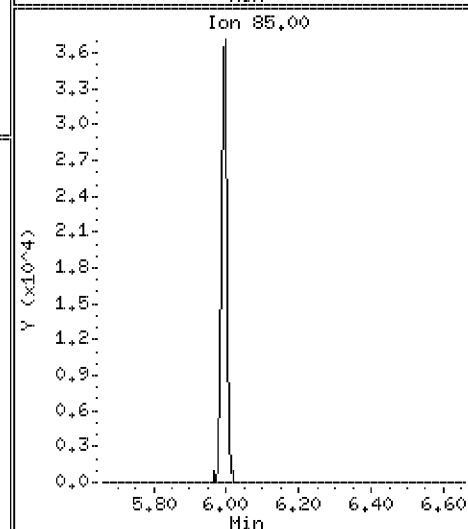
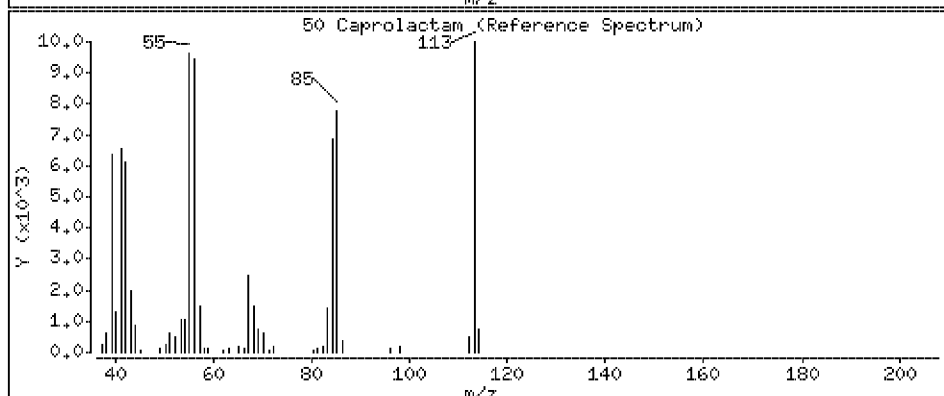
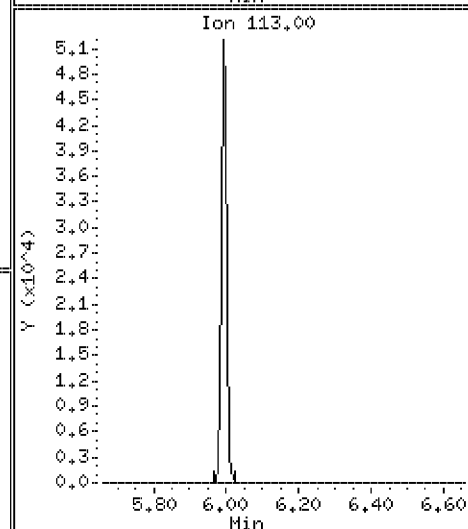
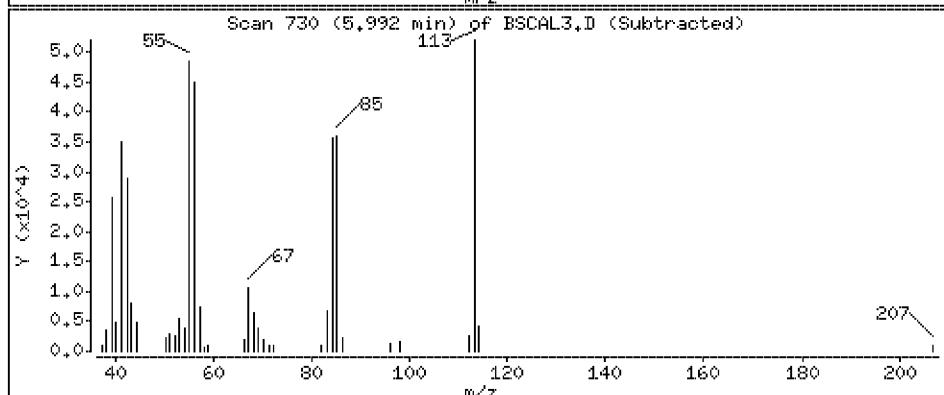
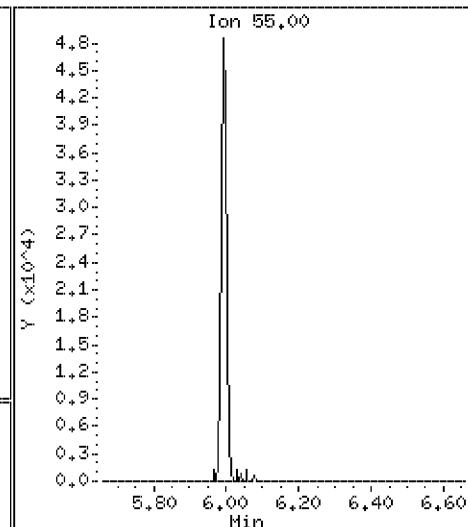
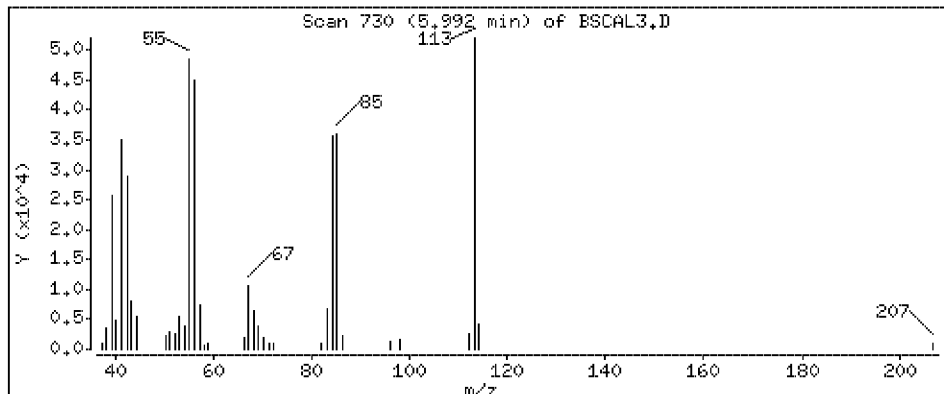
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

50 Caprolactam

Concentration: 19.6 ug/l



Date : 23-APR-2012 15:31

Client ID: BSCAL3

Instrument: smsd03.i

Sample Info: 45937

Purge Volume: 1000.0

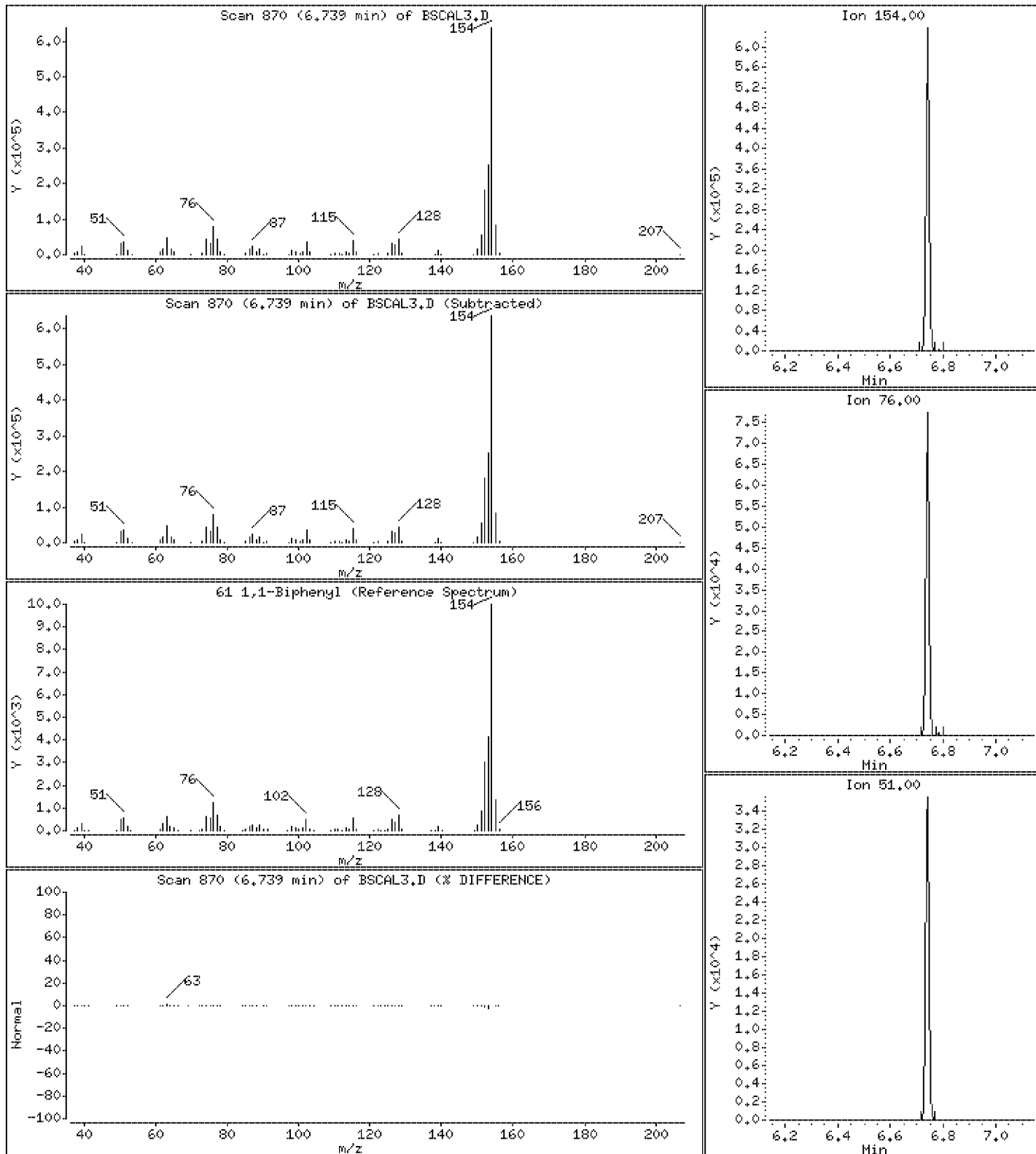
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

61 1,1-Biphenyl

Concentration: 19.3 ug/l



Date : 23-APR-2012 15:31

Client ID: BSCAL3

Instrument: smsd03.i

Sample Info: 45937

Purge Volume: 1000.0

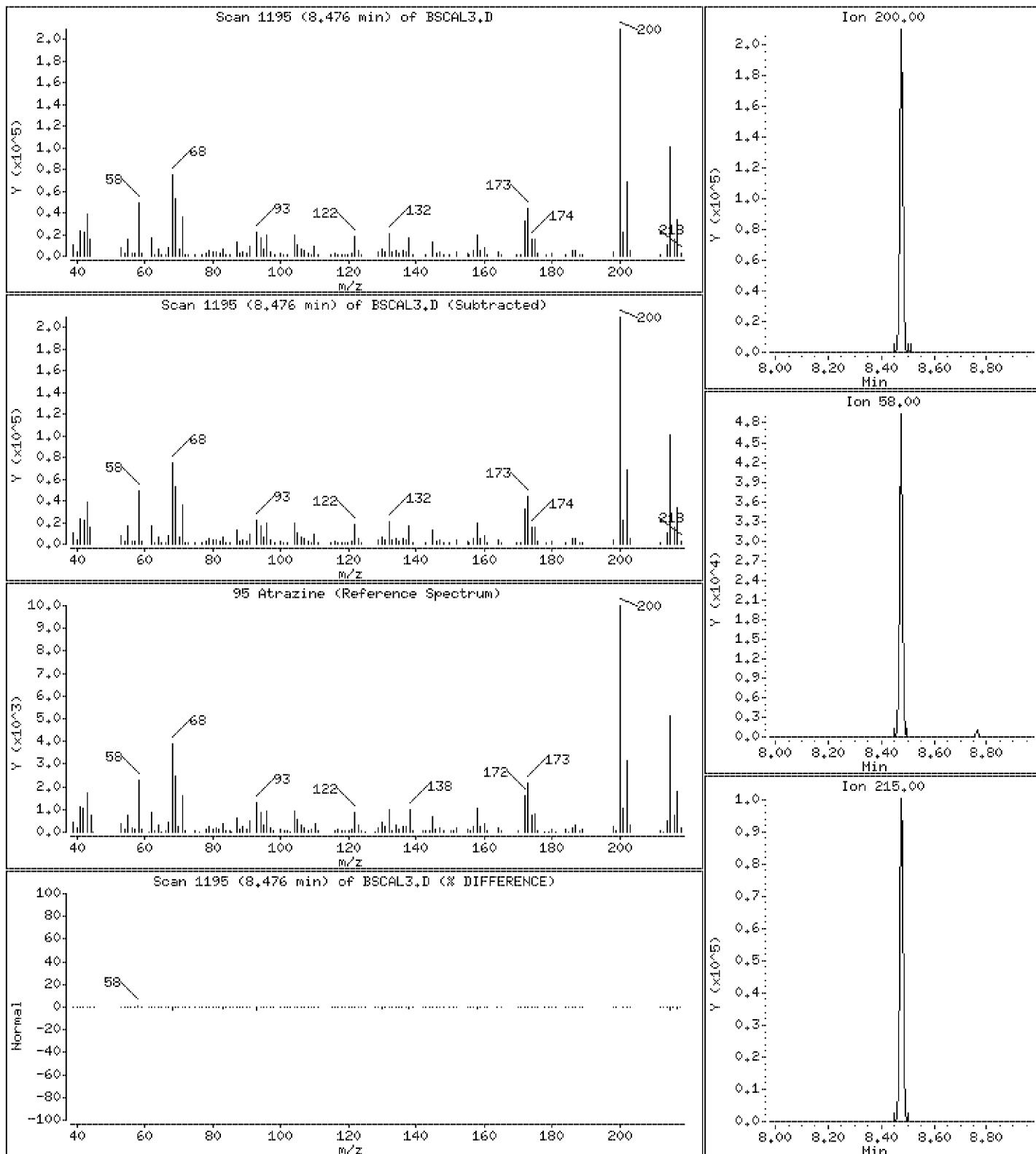
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

95 Atrazine

Concentration: 19.1 ug/l



Date : 23-APR-2012 15:31

Client ID: BSCAL3

Instrument: smsd03.i

Sample Info: 45937

Purge Volume: 1000.0

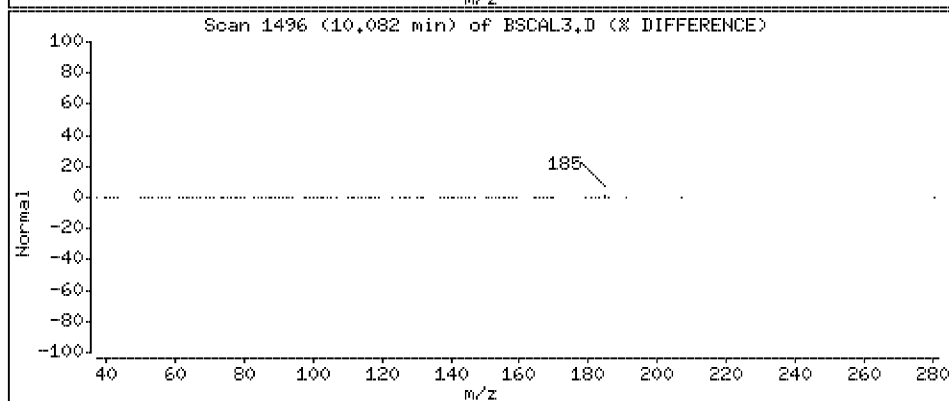
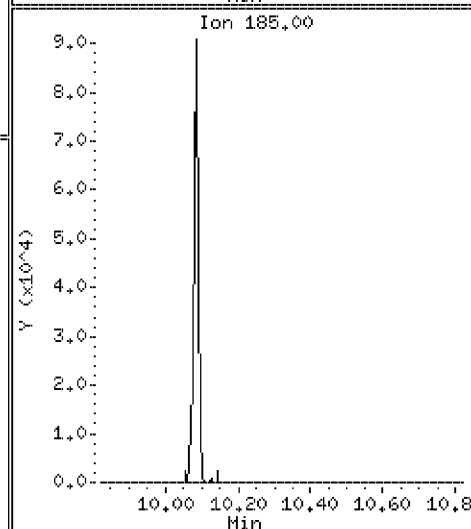
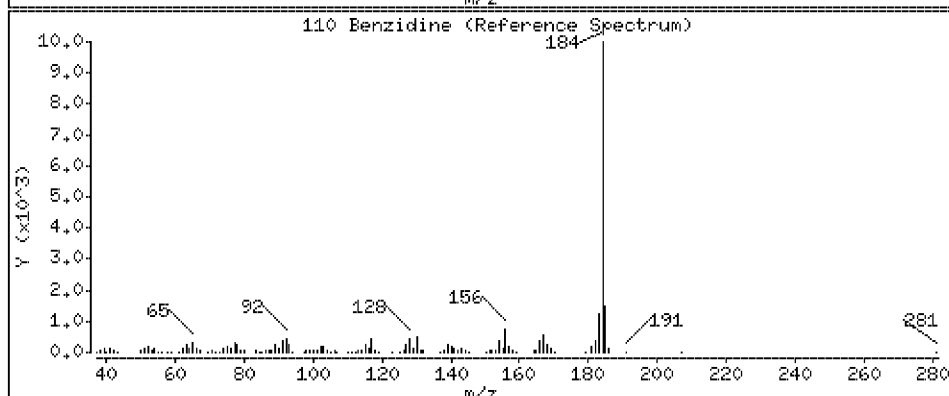
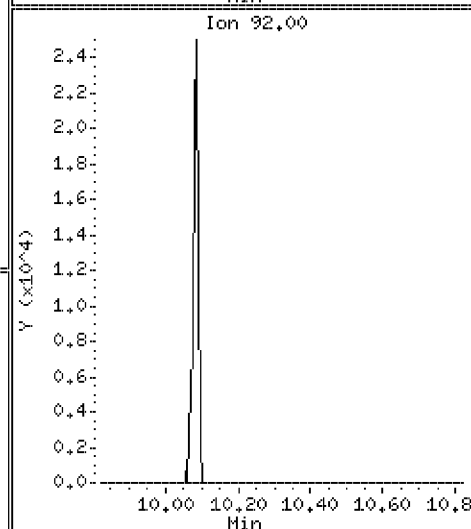
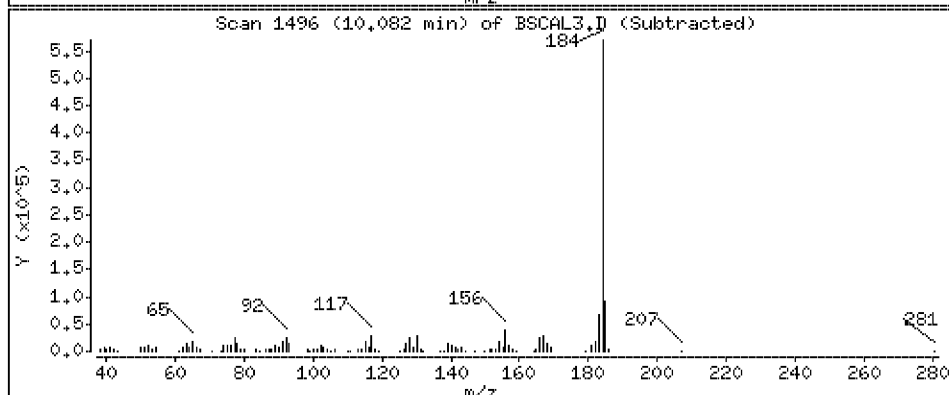
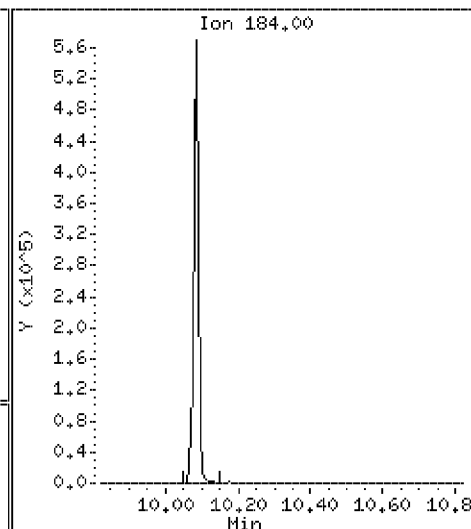
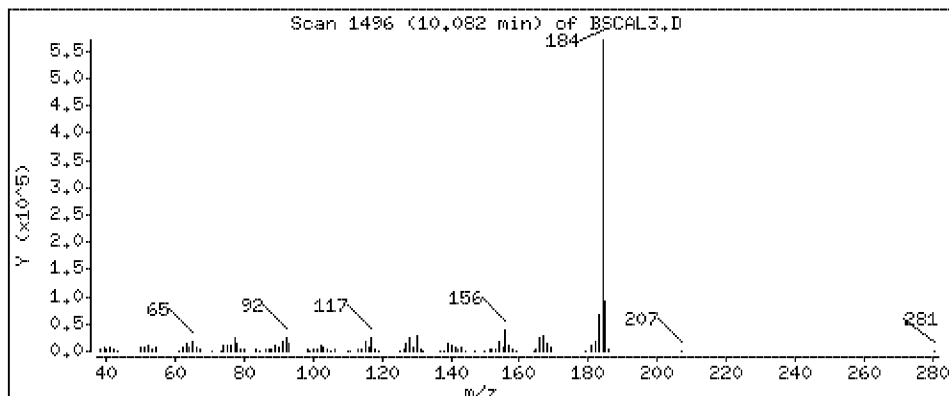
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

110 Benzidine

Concentration: 21.4 ug/l



Date : 23-APR-2012 15:31

Client ID: BSCAL3

Instrument: smsd03.i

Sample Info: 45937

Purge Volume: 1000.0

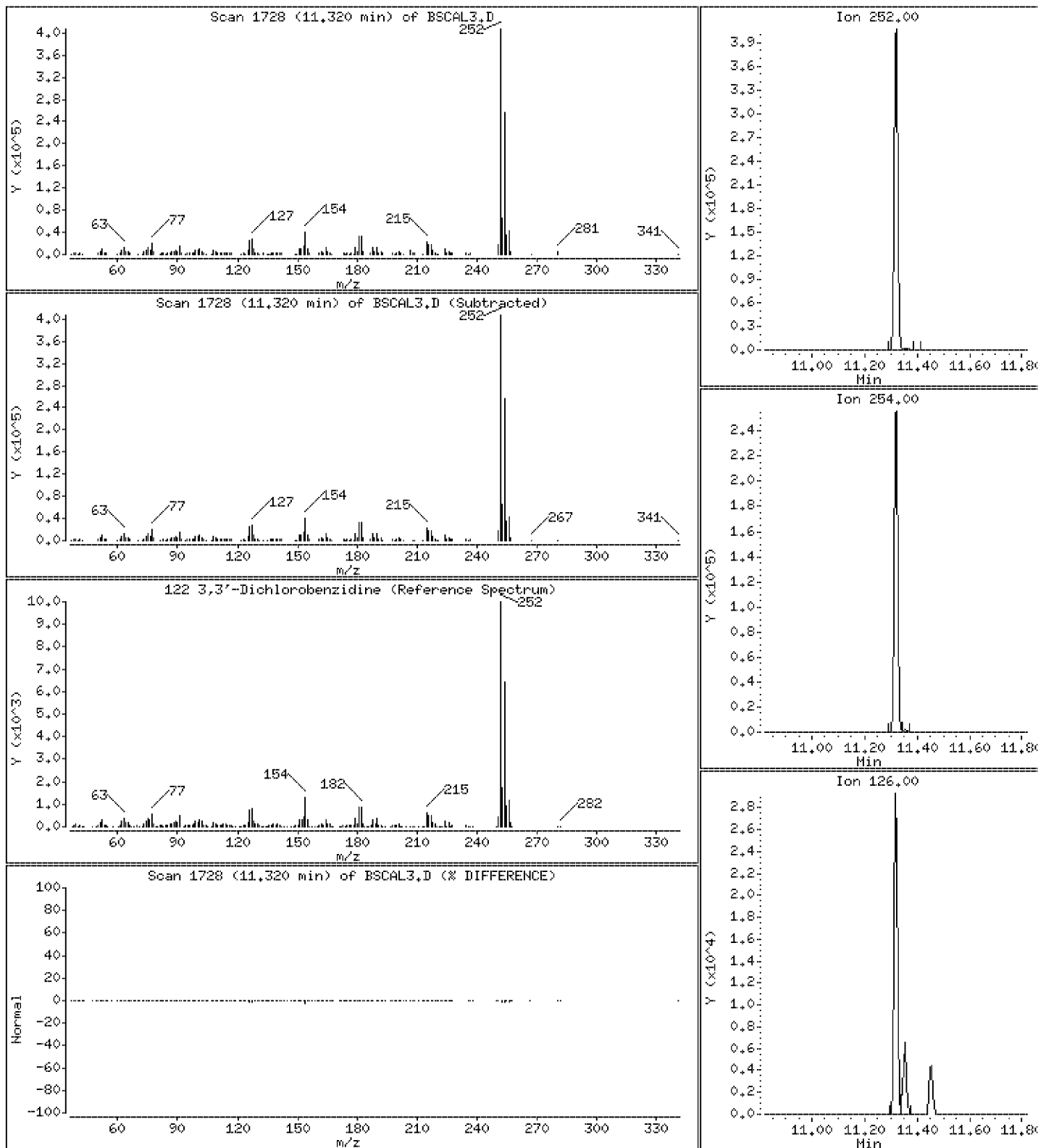
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

122 3,3'-Dichlorobenzidine

Concentration: 18.9 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3042312.b\BSCAL2.D
 Lab Smp Id: 45938 Client Smp ID: BSCAL2
 Inj Date : 23-APR-2012 15:55 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 45938
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270bcs.m
 Meth Date : 25-Apr-2012 09:57 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 15:07 Cal File: BSCAL4.D
 Als bottle: 15 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: BZSOWcal.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
9 Benzaldehyde CAS #: 100-52-7									
4.076	4.161	(0.917)	77	88839	10.0000	9.5	70.00- 130.00	100.00	
4.076	4.161	(0.917)	106	66196			0.00- 30.92	74.51	
4.074	4.161	(0.916)	51	30042			231.65- 291.65	33.82	
* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.446	4.448	(1.000)	152	306788	40.0000		80.00- 120.00	100.00	
4.446	4.448	(1.000)	115	190407			32.20- 92.20	62.06	
4.446	4.448	(1.000)	150	454499			139.77- 199.77	148.15	
25 Acetophenone CAS #: 98-86-2									
4.798	4.807	(0.856)	105	138907	10.0000	9.2	70.00- 130.00	100.00	
4.798	4.807	(0.856)	77	140197			4410.01-4470.01	100.93	
4.797	4.807	(0.856)	51	33548			1262.06-1322.06	24.15	
* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.608	5.610	(1.000)	136	1003006	40.0000		80.00- 120.00	100.00	
5.607	5.610	(1.000)	68	50646			0.00- 35.51	5.05	
50 Caprolactam CAS #: 105-60-2									
5.988	6.158	(1.068)	55	22721	10.0000	10.6	70.00- 130.00	100.00	
5.988	6.158	(1.068)	113	23042			106.52- 166.52	101.41	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
50 Caprolactam (continued)									
5.989	6.158	(1.068)	85	18143			55.05- 115.05	79.85	

61 1,1-Biphenyl									
6.738	6.642	(0.923)	154	256423	10.0000	9.3	70.00- 130.00	100.00	
6.737	6.642	(0.922)	76	32697			1762.39-1822.39	12.75	
6.737	6.642	(0.923)	51	18223			1618.22-1678.22	7.11	

* 70 Acenaphthene-d10									
7.303	7.305	(1.000)	164	692842	40.0000		80.00- 120.00	100.00	
7.303	7.305	(1.000)	162	663748			64.73- 124.73	95.80	
7.303	7.305	(1.000)	160	312559			12.46- 72.46	45.11	

95 Atrazine									
8.474	8.479	(0.968)	200	80722	10.0000	9.1	80.00- 120.00	100.00	
8.473	8.479	(0.967)	58	17251			0.00- 52.18	21.37	
8.475	8.479	(0.968)	215	40145			22.24- 82.24	49.73	

* 100 Phenanthrene-d10									
8.758	8.761	(1.000)	188	1327096	40.0000		80.00- 120.00	100.00	
8.757	8.761	(1.000)	94	82797			0.00- 36.35	6.24	
8.757	8.761	(1.000)	80	98736			0.00- 37.82	7.44	

110 Benzidine									
10.080	10.322	(0.888)	184	226789	10.0000	10.1	70.00- 130.00	100.00	
10.080	10.322	(0.888)	92	9745			36.43- 96.43	4.30	
10.080	10.322	(0.888)	185	31473			0.00- 47.46	13.88	

122 3,3'-Dichlorobenzidine									
11.318	11.321	(0.997)	252	173061	10.0000	8.8	80.00- 120.00	100.00	
11.318	11.321	(0.997)	254	105354			34.83- 94.83	60.88	
11.317	11.321	(0.997)	126	11212			0.00- 37.08	6.48	

* 121 Chrysene-d12									
11.354	11.359	(1.000)	240	1665408	40.0000		80.00- 120.00	100.00	
11.353	11.359	(1.000)	120	88394			0.00- 36.38	5.31	
11.354	11.359	(1.000)	236	436897			0.00- 57.06	26.23	

* 130 Perylene-d12									
12.681	12.682	(1.000)	264	1674981	40.0000		80.00- 120.00	100.00	
12.681	12.682	(1.000)	260	411216			0.00- 54.80	24.55	
12.681	12.682	(1.000)	265	382038			0.00- 53.39	22.81	

Date : 23-APR-2012 15:55

Client ID: BSCAL2

Instrument: smsd03.i

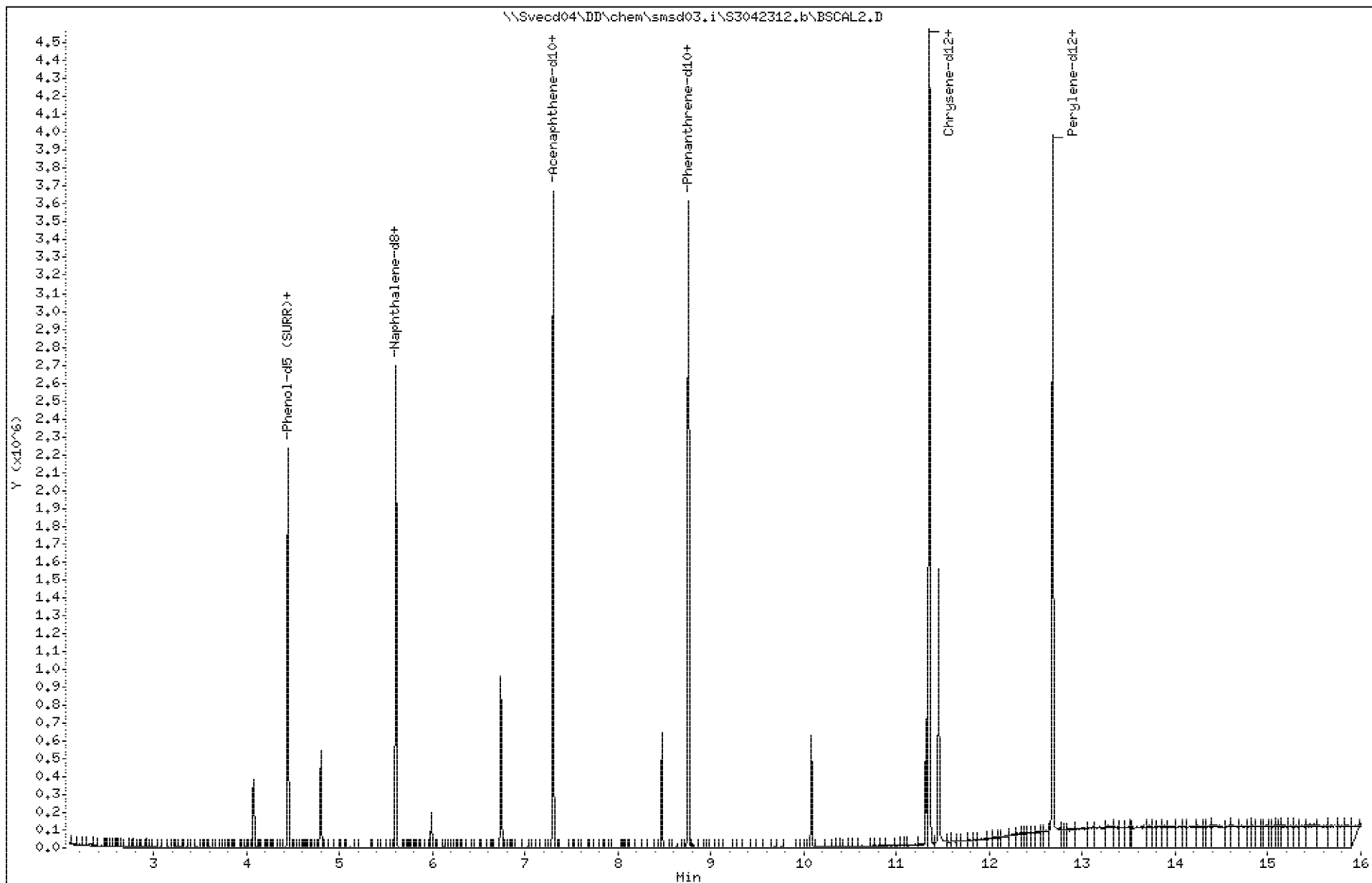
Sample Info: 45938

Operator: PEL

Purge Volume: 1000.0

Column diameter: 0.25

Column phase: HPMS-5



Date : 23-APR-2012 15:55

Client ID: BSCAL2

Instrument: smsd03.i

Sample Info: 45938

Purge Volume: 1000.0

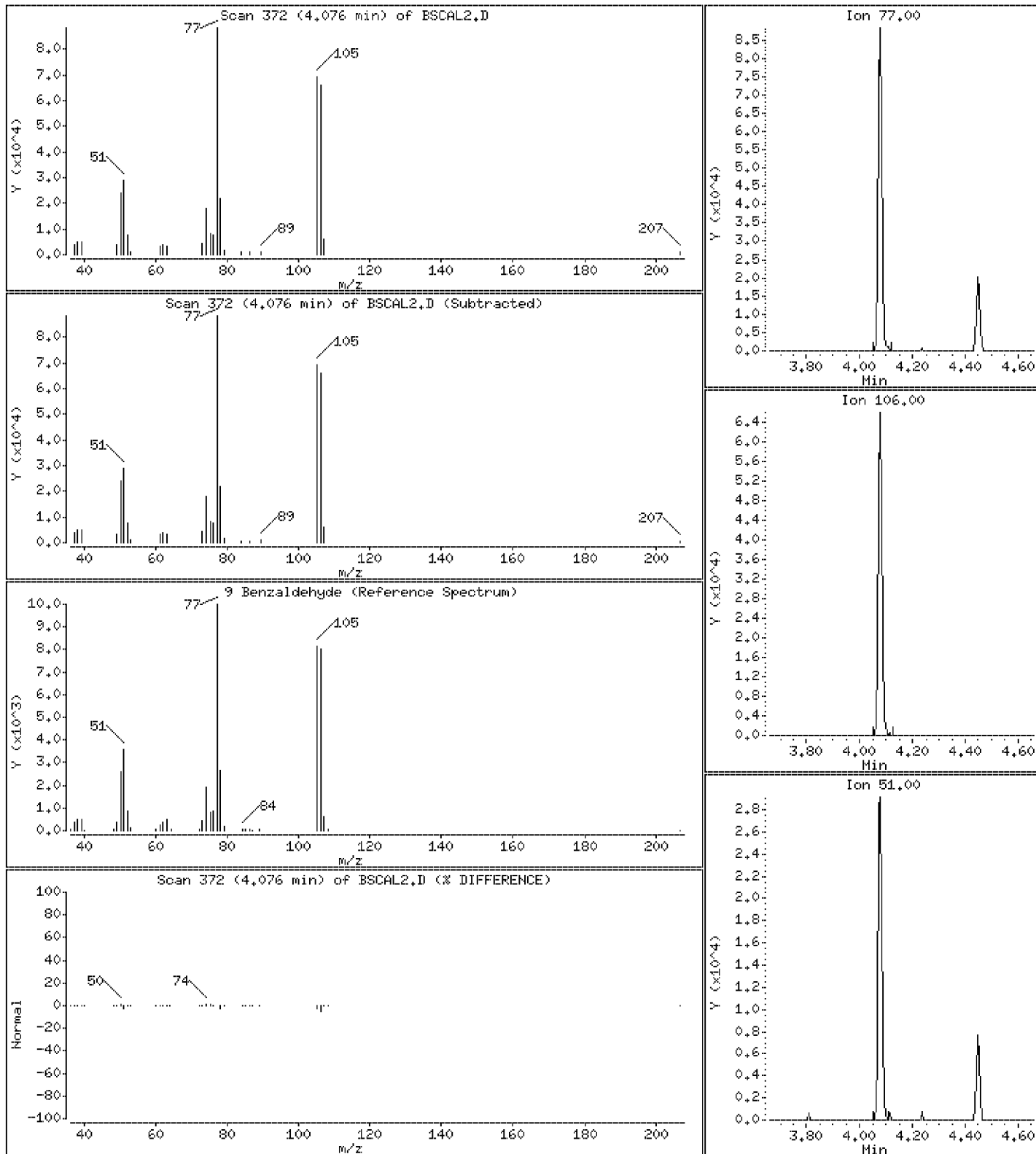
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

9 Benzaldehyde

Concentration: 9.5 ug/l



Date : 23-APR-2012 15:55

Client ID: BSCAL2

Instrument: smsd03.i

Sample Info: 45938

Purge Volume: 1000.0

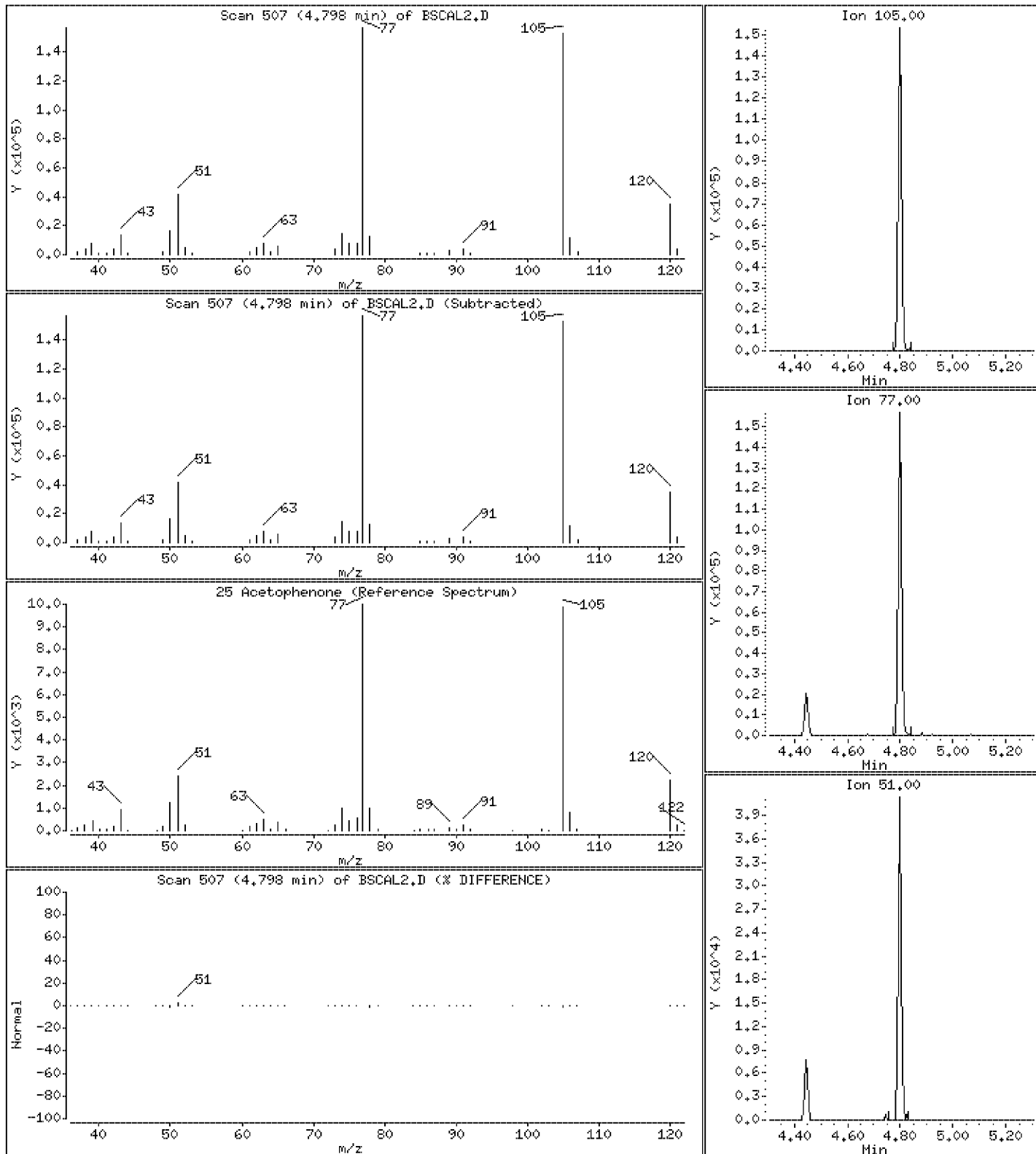
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

25 Acetophenone

Concentration: 9.2 ug/l



Date : 23-APR-2012 15:55

Client ID: BSCAL2

Instrument: smsd03.i

Sample Info: 45938

Purge Volume: 1000.0

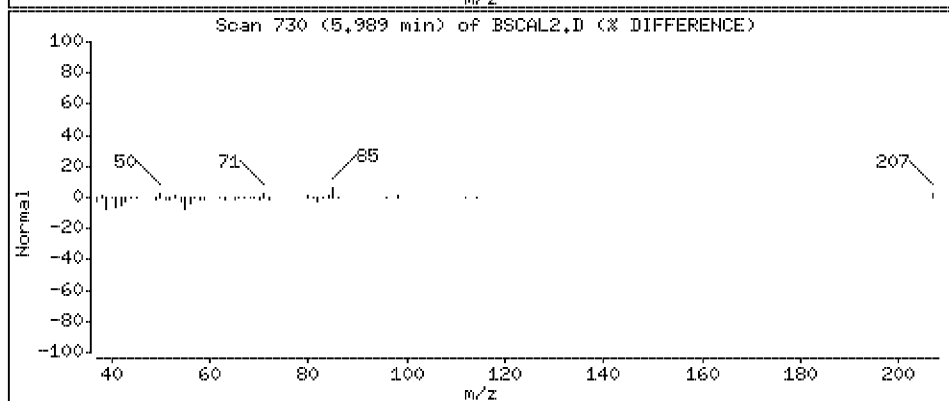
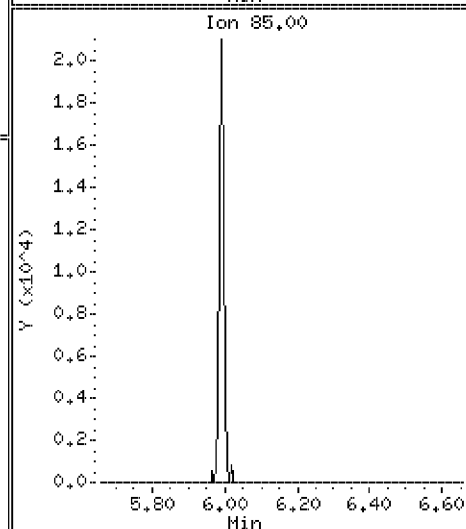
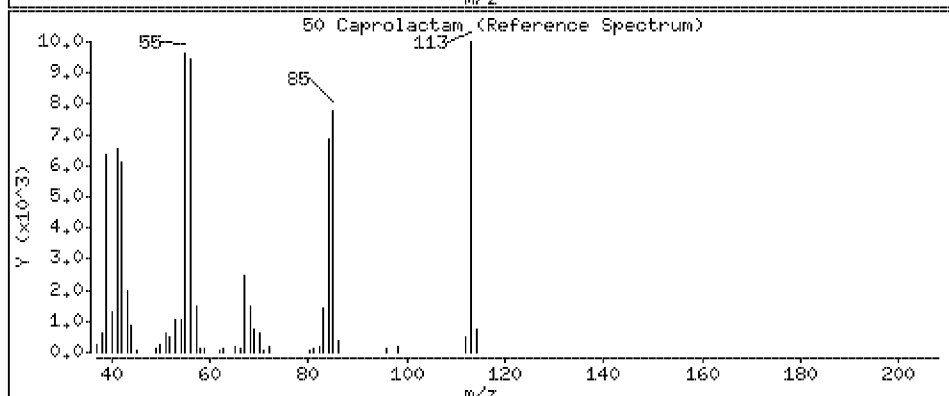
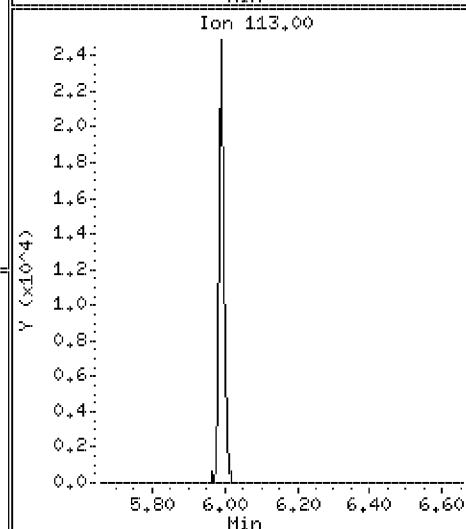
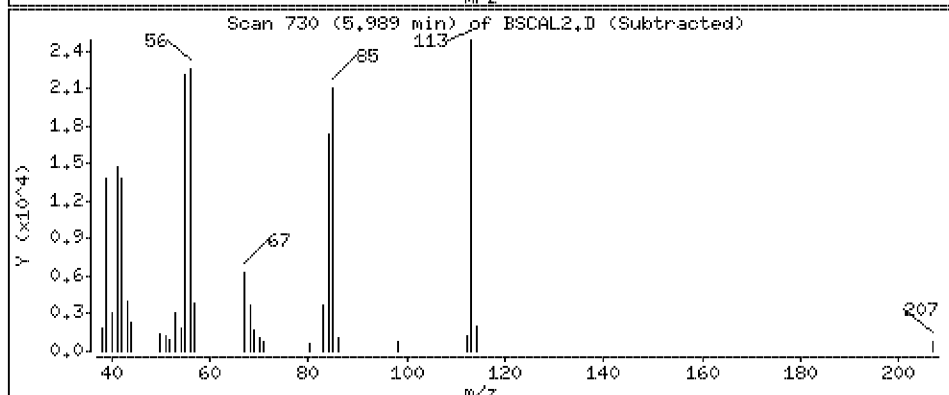
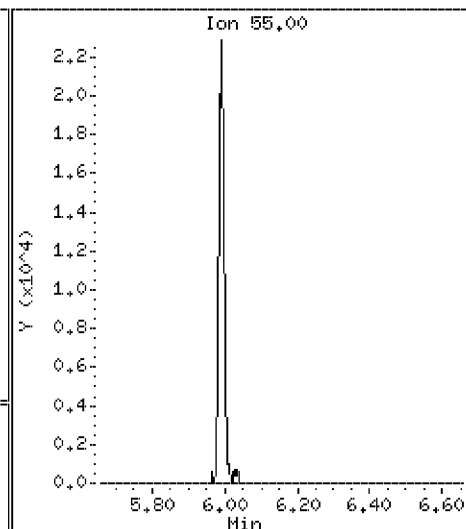
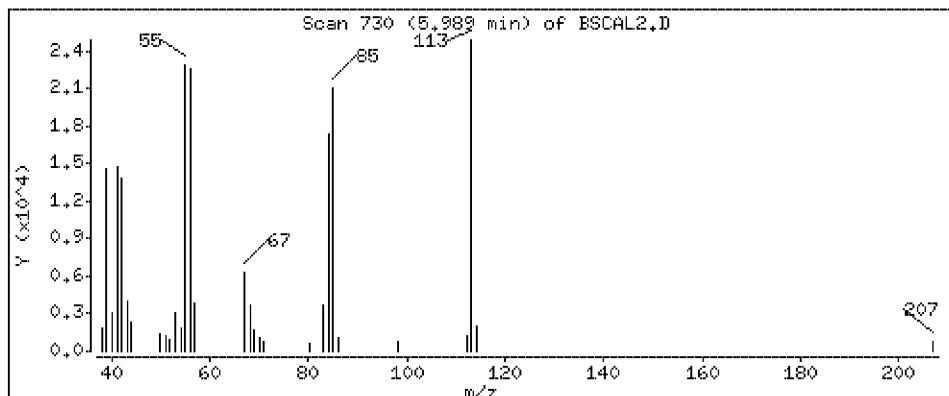
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

50 Caprolactam

Concentration: 10.6 ug/l



Date : 23-APR-2012 15:55

Client ID: BSCAL2

Instrument: smsd03.i

Sample Info: 45938

Purge Volume: 1000.0

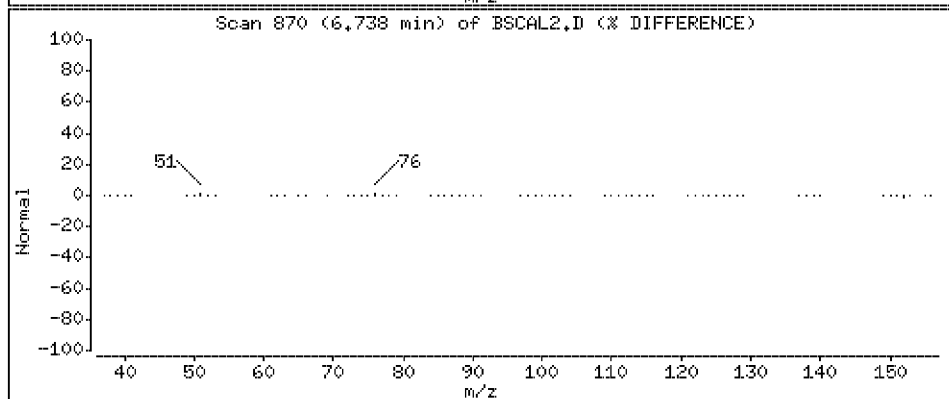
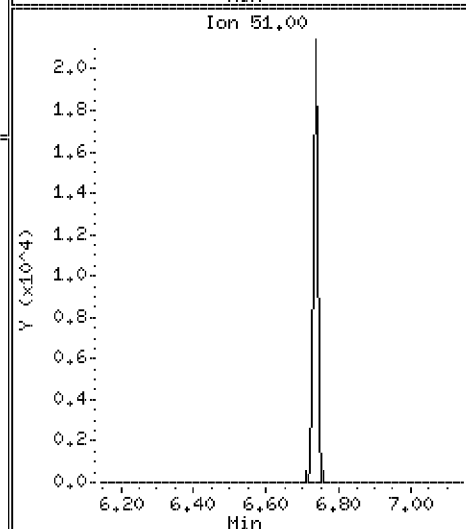
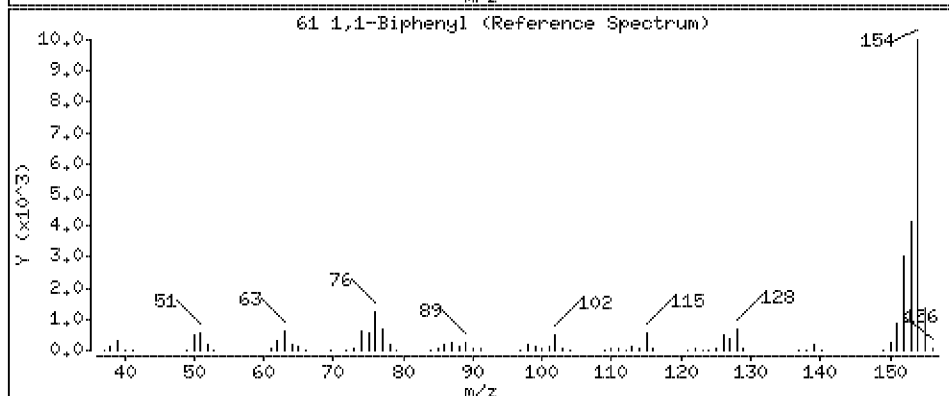
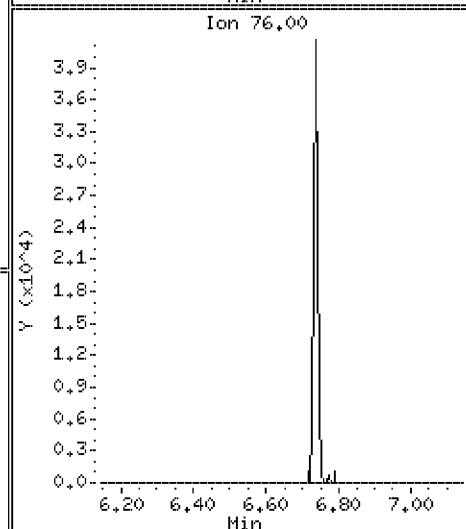
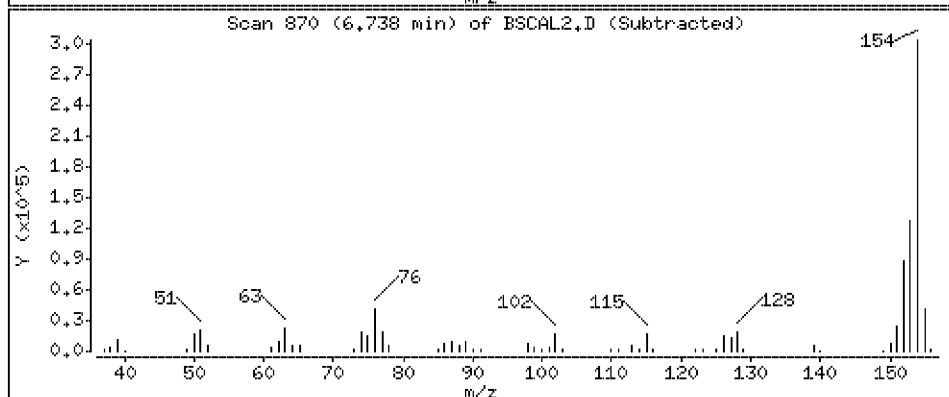
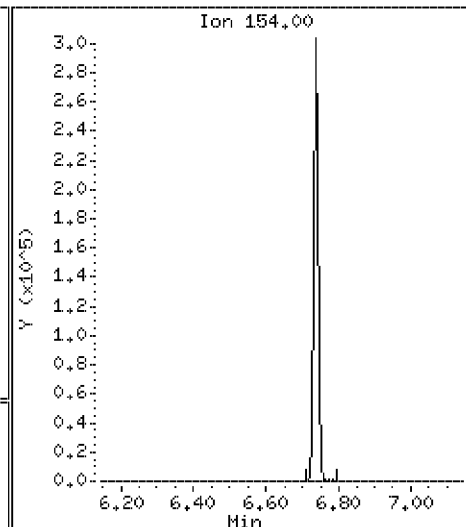
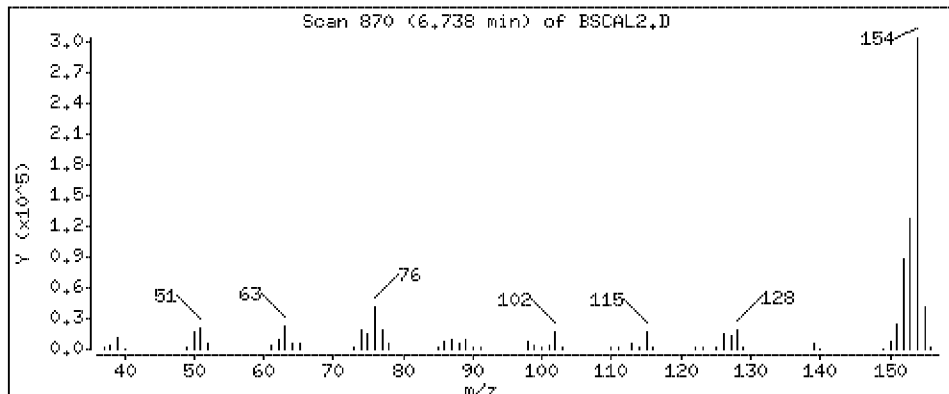
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

61 1,1-Biphenyl

Concentration: 9.3 ug/l



Date : 23-APR-2012 15:55

Client ID: BSCAL2

Instrument: smsd03.i

Sample Info: 45938

Purge Volume: 1000.0

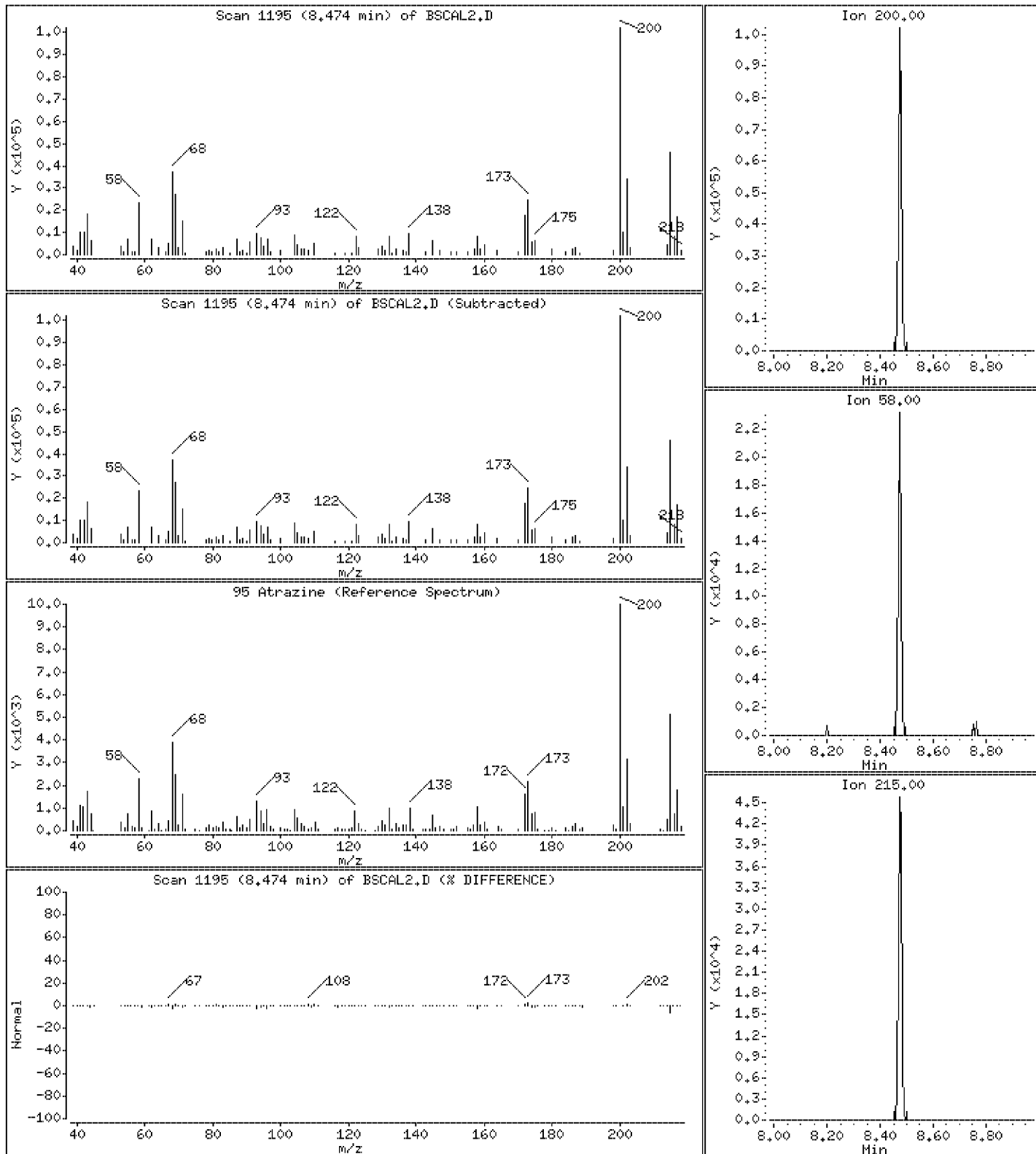
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

95 Atrazine

Concentration: 9.1 ug/l



Date : 23-APR-2012 15:55

Client ID: BSCAL2

Instrument: smsd03.i

Sample Info: 45938

Purge Volume: 1000.0

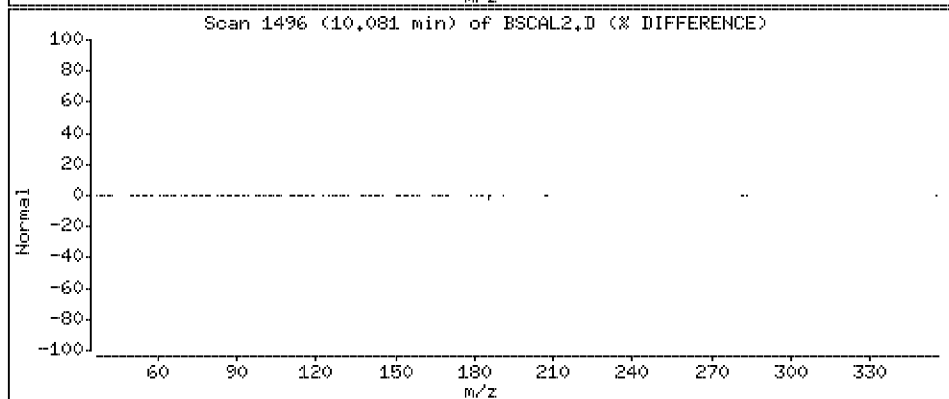
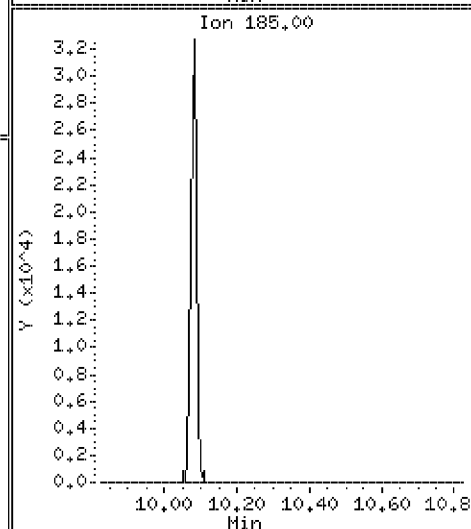
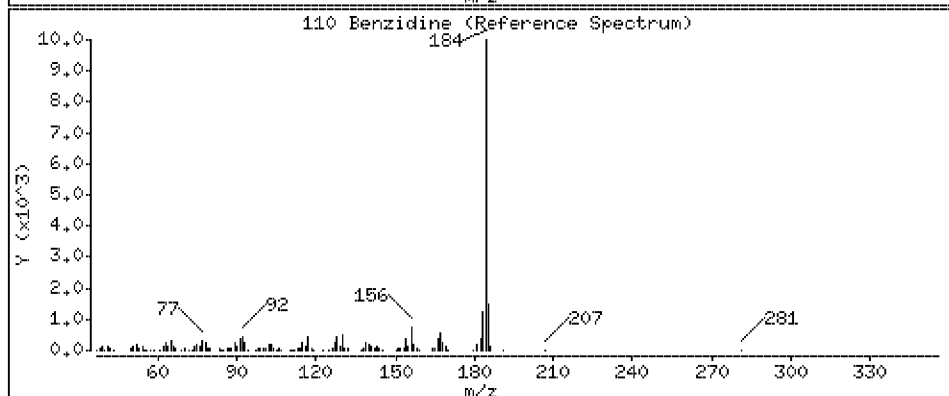
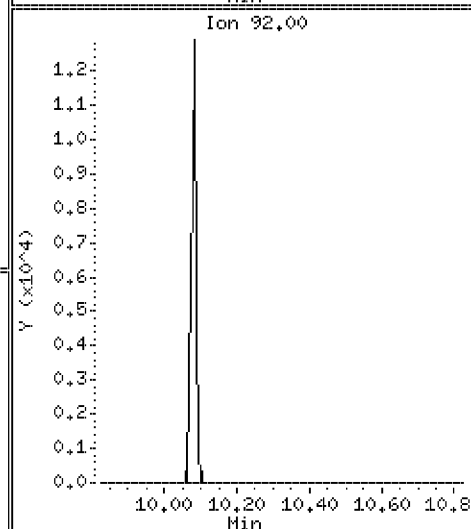
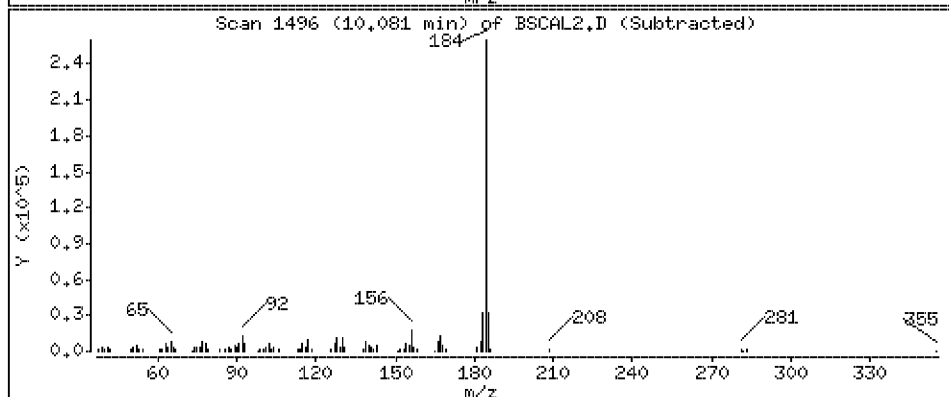
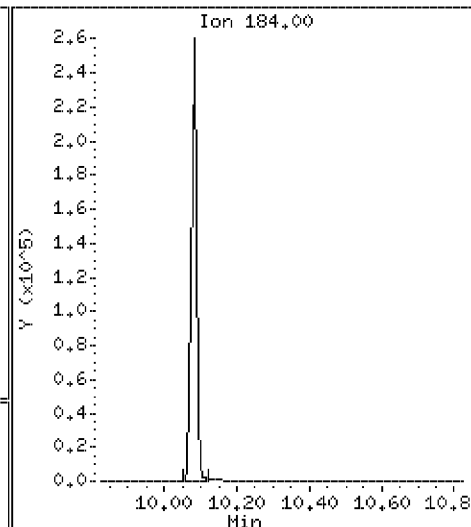
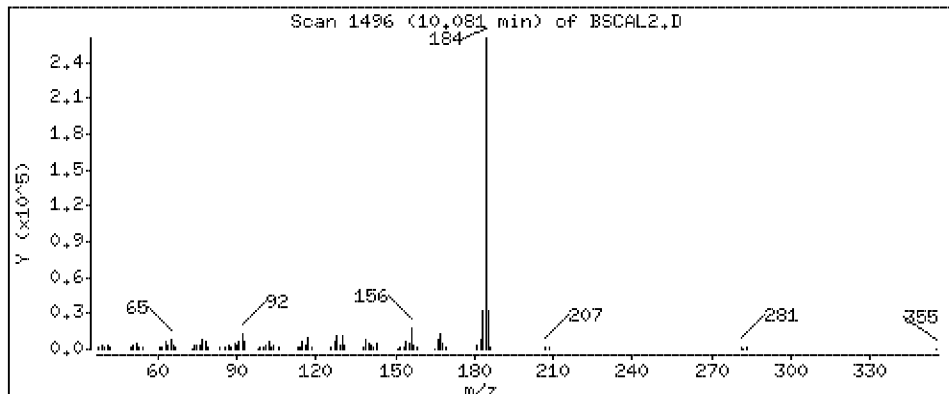
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

110 Benzidine

Concentration: 10.1 ug/l



Date : 23-APR-2012 15:55

Client ID: BSCAL2

Instrument: smsd03.i

Sample Info: 45938

Purge Volume: 1000.0

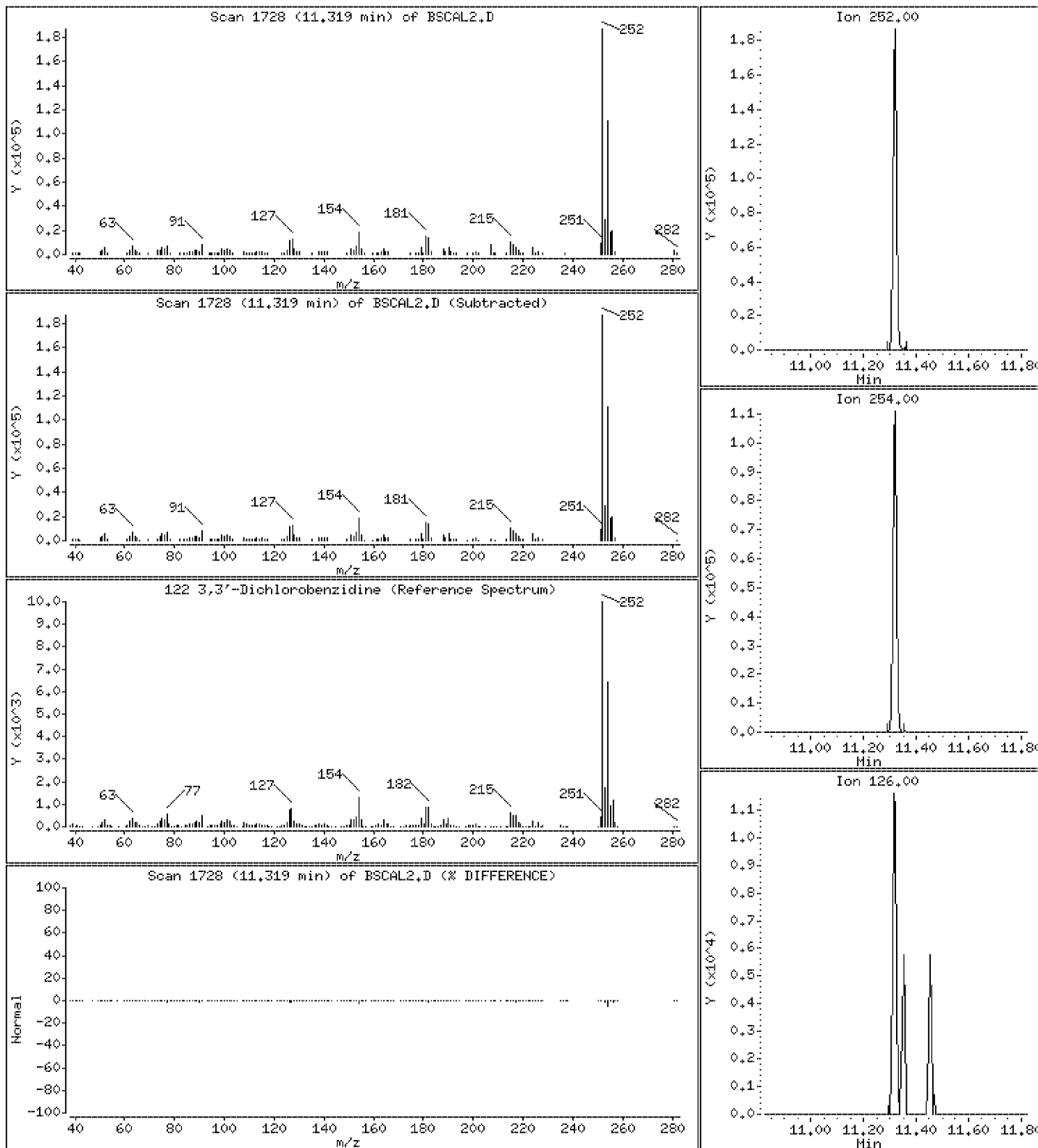
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

122 3,3'-Dichlorobenzidine

Concentration: 8.8 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3042312.b\BSCAL1.D
 Lab Smp Id: 45939 Client Smp ID: BSCAL1
 Inj Date : 23-APR-2012 16:19 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 45939
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270bcs.m
 Meth Date : 25-Apr-2012 09:57 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 16:19 Cal File: BSCAL1.D
 Als bottle: 16 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: BZSOWcal.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
9 Benzaldehyde CAS #: 100-52-7									
4.077	4.161	(0.917)	77	33098	4.00000	3.7	70.00- 130.00	100.00	
4.077	4.161	(0.917)	106	24888			0.00- 30.92	75.19	
4.077	4.161	(0.917)	51	13174			231.65- 291.65	39.80	
* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.446	4.448	(1.000)	152	290319	40.0000		80.00- 120.00	100.00	
4.446	4.448	(1.000)	115	183612			32.20- 92.20	63.24	
4.446	4.448	(1.000)	150	444678			139.77- 199.77	153.17	
25 Acetophenone CAS #: 98-86-2									
4.799	4.807	(0.856)	105	53869	4.00000	3.7	70.00- 130.00	100.00	
4.798	4.807	(0.856)	77	52483			4410.01-4470.01	97.43	
4.798	4.807	(0.856)	51	12247			1262.06-1322.06	22.73	
* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.607	5.610	(1.000)	136	958135	40.0000		80.00- 120.00	100.00	
5.606	5.610	(1.000)	68	51642			0.00- 35.51	5.39	
50 Caprolactam CAS #: 105-60-2									
5.986	6.158	(1.068)	55	7159	4.00000	5.7	70.00- 130.00	100.00	
5.985	6.158	(1.067)	113	8136			106.52- 166.52	113.65	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
50 Caprolactam (continued)									
5.985	6.158	(1.067)	85	5804			55.05- 115.05	81.07	

61 1,1-Biphenyl									
						CAS #: 92-52-4			
6.738	6.642	(0.923)	154	97571	4.00000	3.7	70.00- 130.00	100.00(a)	
6.738	6.642	(0.923)	76	10414			1762.39-1822.39	10.67	
6.738	6.642	(0.923)	51	5747			1618.22-1678.22	5.89	

* 70 Acenaphthene-d10									
						CAS #: 15067-26-2			
7.303	7.305	(1.000)	164	656639	40.0000		80.00- 120.00	100.00	
7.303	7.305	(1.000)	162	628301			64.73- 124.73	95.68	
7.303	7.305	(1.000)	160	285124			12.46- 72.46	43.42	

95 Atrazine									
						CAS #: 1912-24-9			
8.474	8.479	(0.968)	200	30056	4.00000	3.5	80.00- 120.00	100.00(a)	
8.472	8.479	(0.967)	58	6113			0.00- 52.18	20.34	
8.472	8.479	(0.967)	215	14500			22.24- 82.24	48.24	

* 100 Phenanthrene-d10									
						CAS #: 1517-22-2			
8.758	8.761	(1.000)	188	1264260	40.0000		80.00- 120.00	100.00	
8.757	8.761	(1.000)	94	73165			0.00- 36.35	5.79	
8.757	8.761	(1.000)	80	94952			0.00- 37.82	7.51	

110 Benzidine									
						CAS #: 92-87-5			
10.079	10.322	(0.888)	184	81460	4.00000	3.4	70.00- 130.00	100.00(a)	
10.077	10.322	(0.888)	92	3660			36.43- 96.43	4.49	
10.078	10.322	(0.888)	185	11322			0.00- 47.46	13.90	

122 3,3'-Dichlorobenzidine									
						CAS #: 91-94-1			
11.317	11.321	(0.997)	252	61832	4.00000	3.4	80.00- 120.00	100.00(a)	
11.317	11.321	(0.997)	254	39120			34.83- 94.83	63.27	
11.316	11.321	(0.997)	126	3322			0.00- 37.08	5.37	

* 121 Chrysene-d12									
						CAS #: 1719-03-5			
11.354	11.359	(1.000)	240	1581839	40.0000		80.00- 120.00	100.00	
11.352	11.359	(1.000)	120	84949			0.00- 36.38	5.37	
11.354	11.359	(1.000)	236	419010			0.00- 57.06	26.49	

* 130 Perylene-d12									
						CAS #: 1520-96-3			
12.682	12.682	(1.000)	264	1603770	40.0000		80.00- 120.00	100.00	
12.682	12.682	(1.000)	260	393778			0.00- 54.80	24.55	
12.681	12.682	(1.000)	265	367098			0.00- 53.39	22.89	

QC Flag Legend

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

Date : 23-APR-2012 16:19

Client ID: BSCAL1

Instrument: smsd03.i

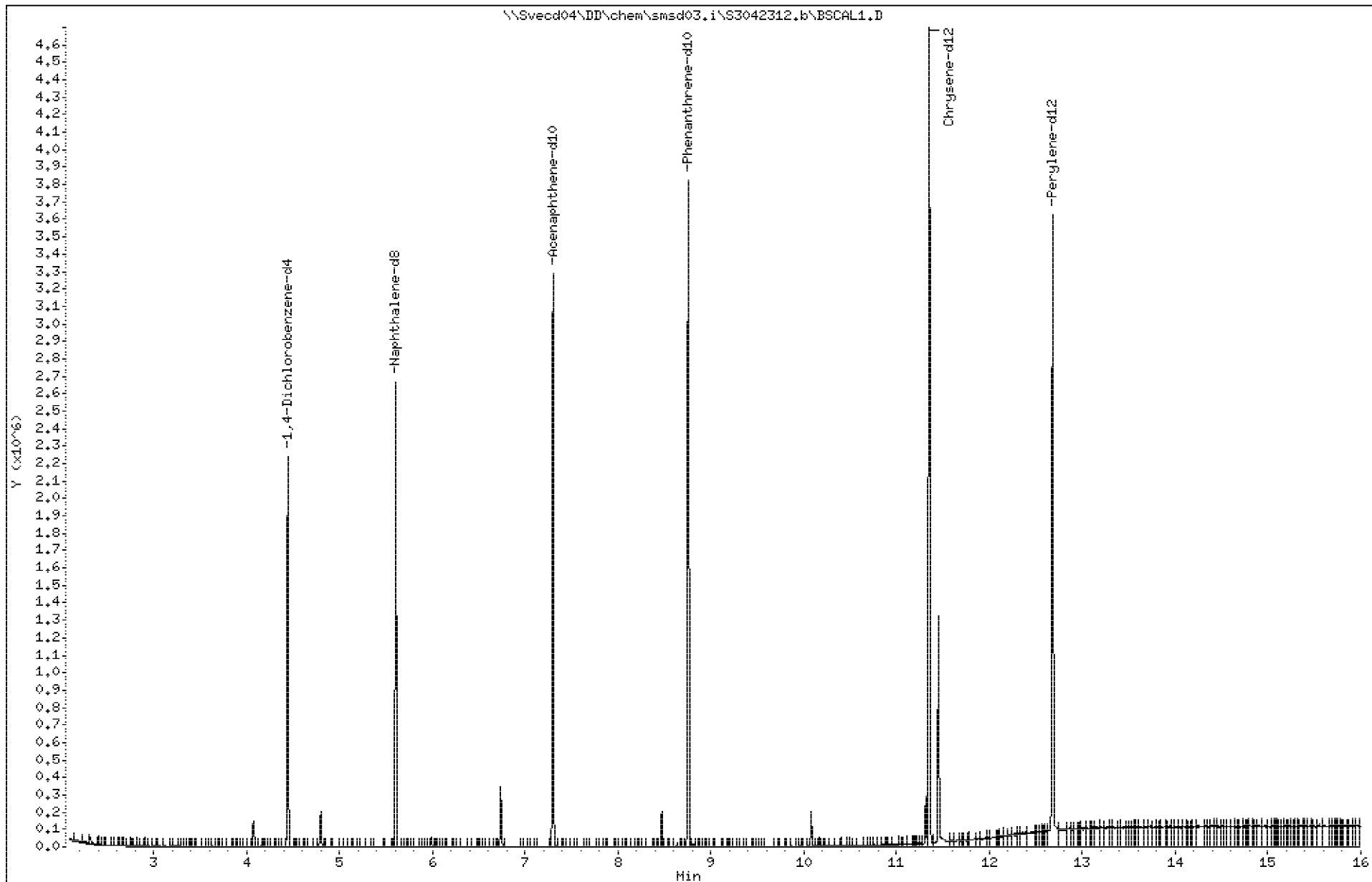
Sample Info: 45939

Operator: PEL

Purge Volume: 1000.0

Column diameter: 0.25

Column phase: HPMS-5



Date : 23-APR-2012 16:19

Client ID: BSCAL1

Instrument: smsd03.i

Sample Info: 45939

Purge Volume: 1000.0

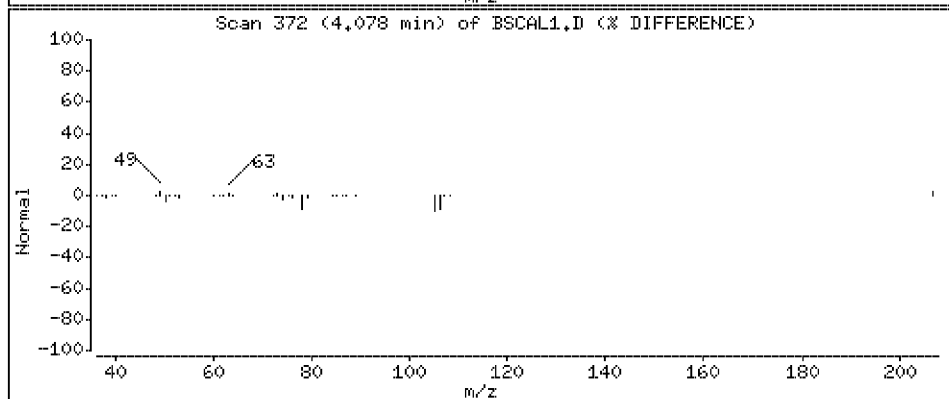
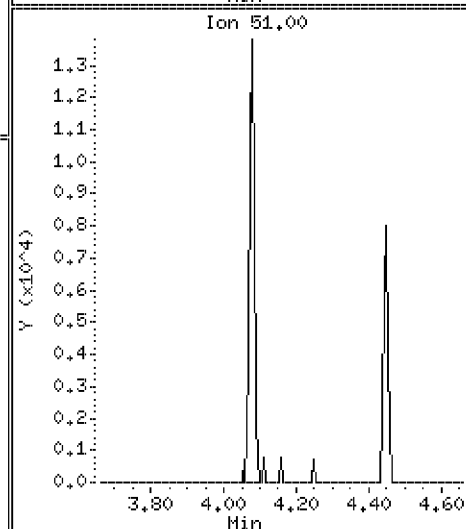
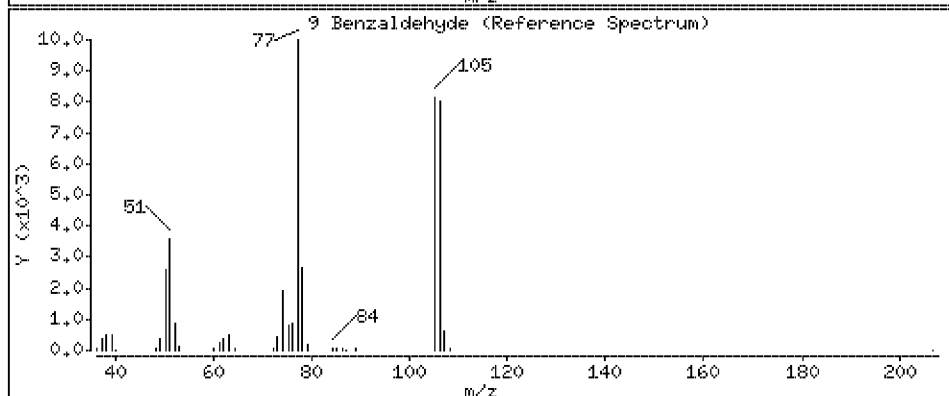
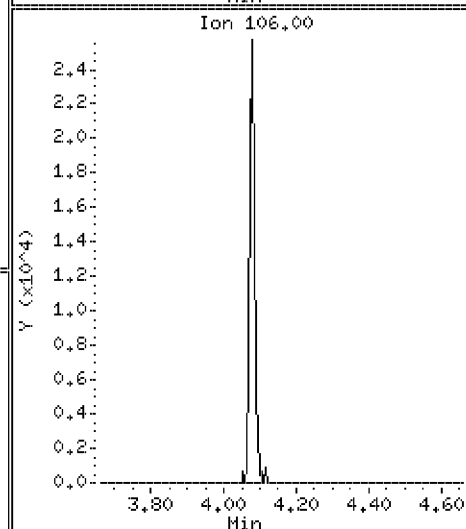
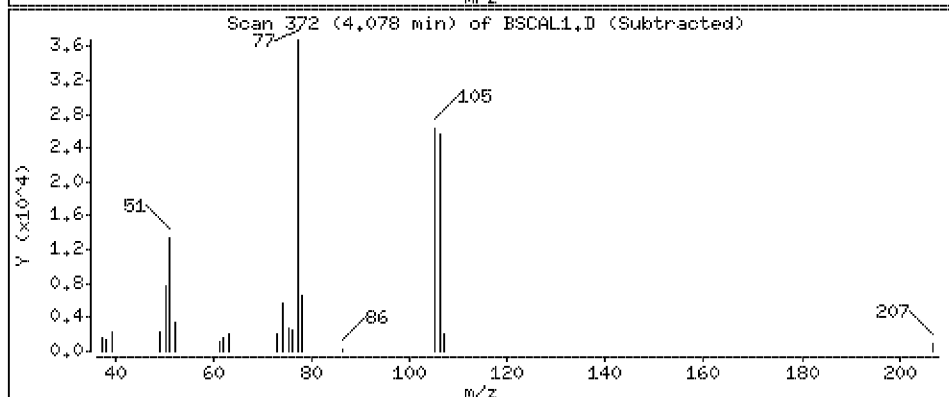
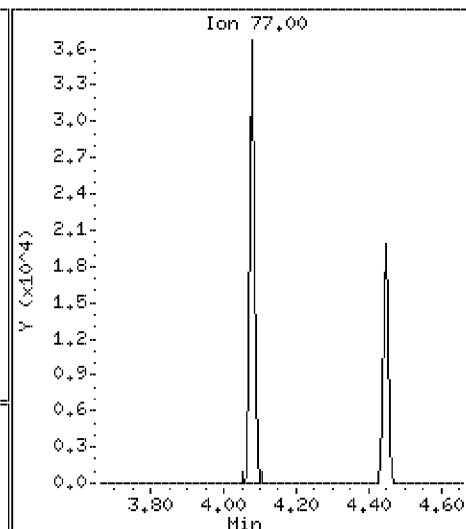
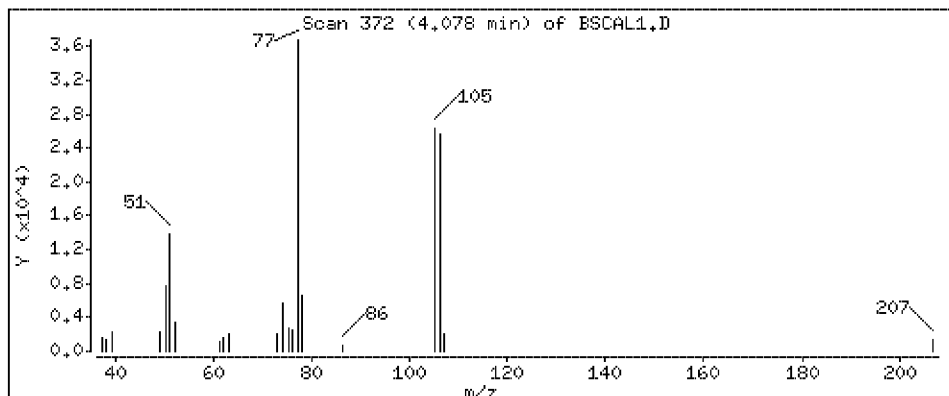
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

9 Benzaldehyde

Concentration: 3.7 ug/l



Date : 23-APR-2012 16:19

Client ID: BSCAL1

Instrument: smsd03.i

Sample Info: 45939

Purge Volume: 1000.0

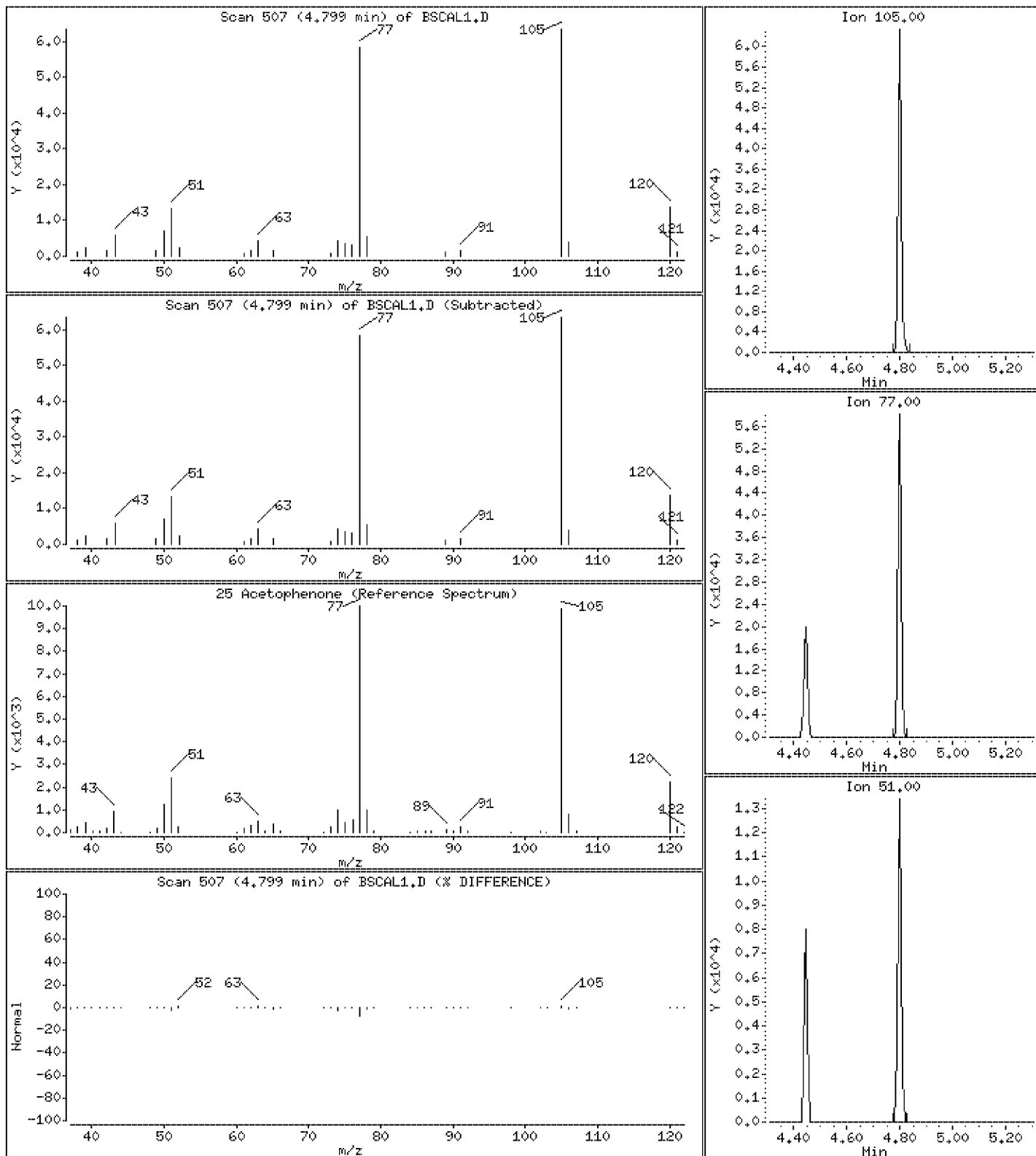
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

25 Acetophenone

Concentration: 3.7 ug/l



Date : 23-APR-2012 16:19

Client ID: BSCAL1

Instrument: smsd03.i

Sample Info: 45939

Purge Volume: 1000.0

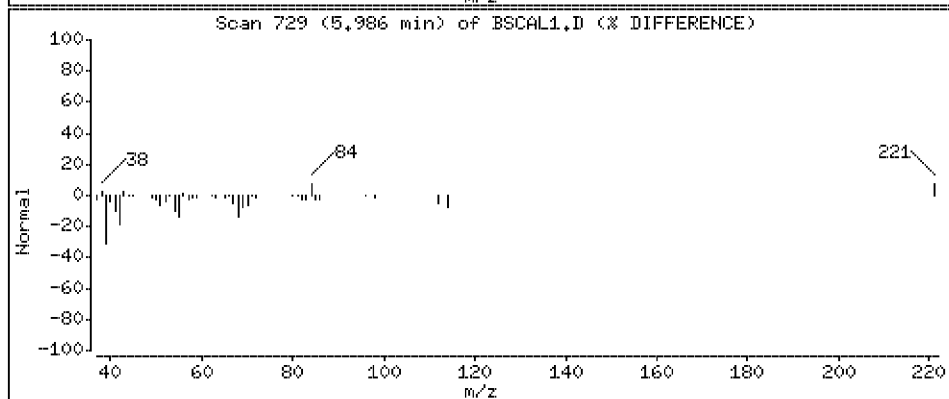
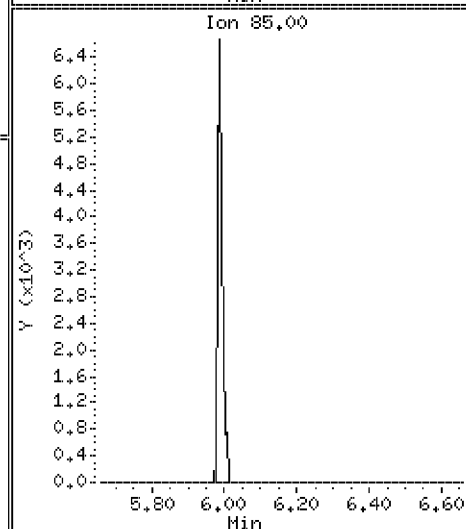
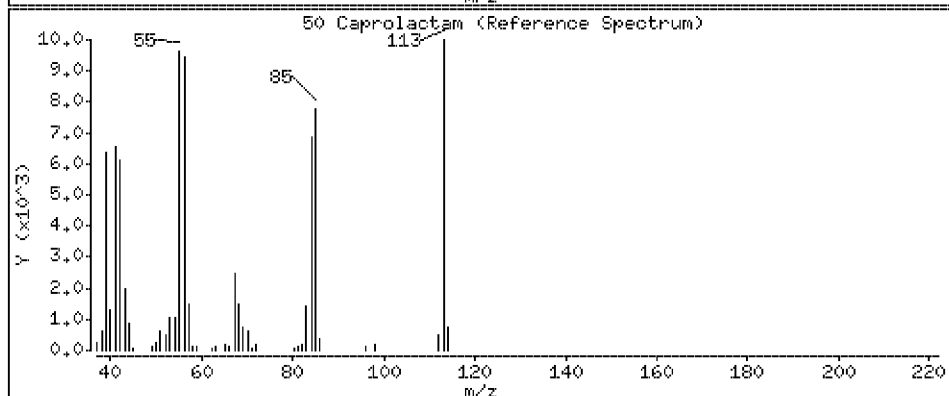
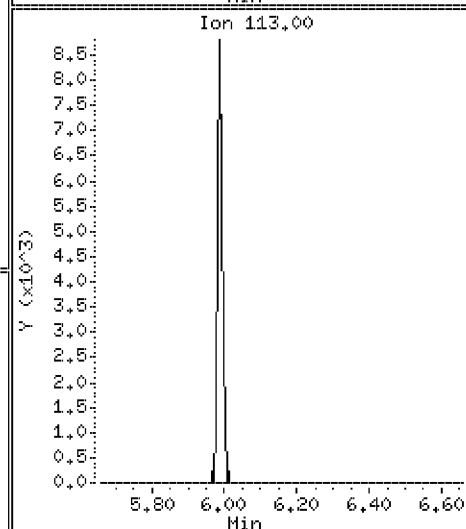
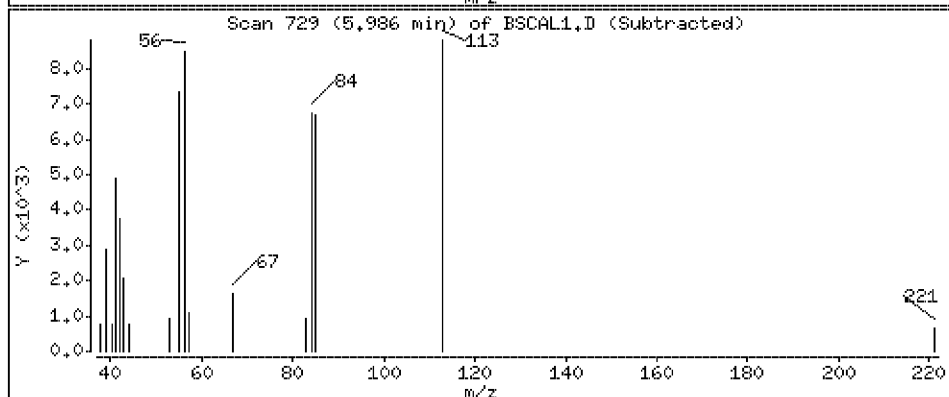
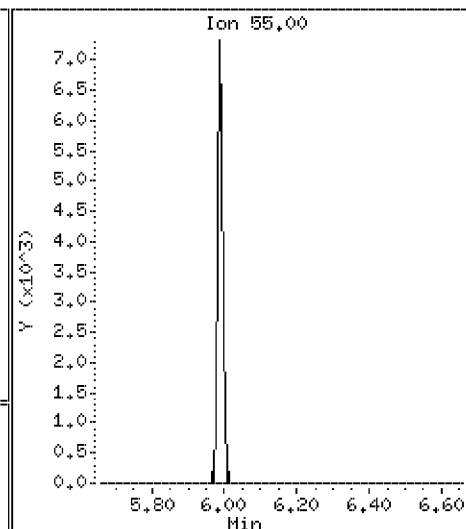
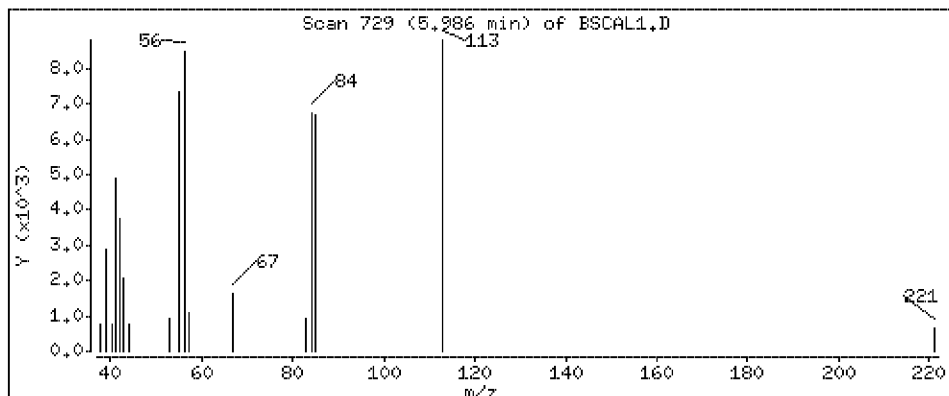
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

50 Caprolactam

Concentration: 5.7 ug/l



Date : 23-APR-2012 16:19

Client ID: BSCAL1

Instrument: smsd03.i

Sample Info: 45939

Purge Volume: 1000.0

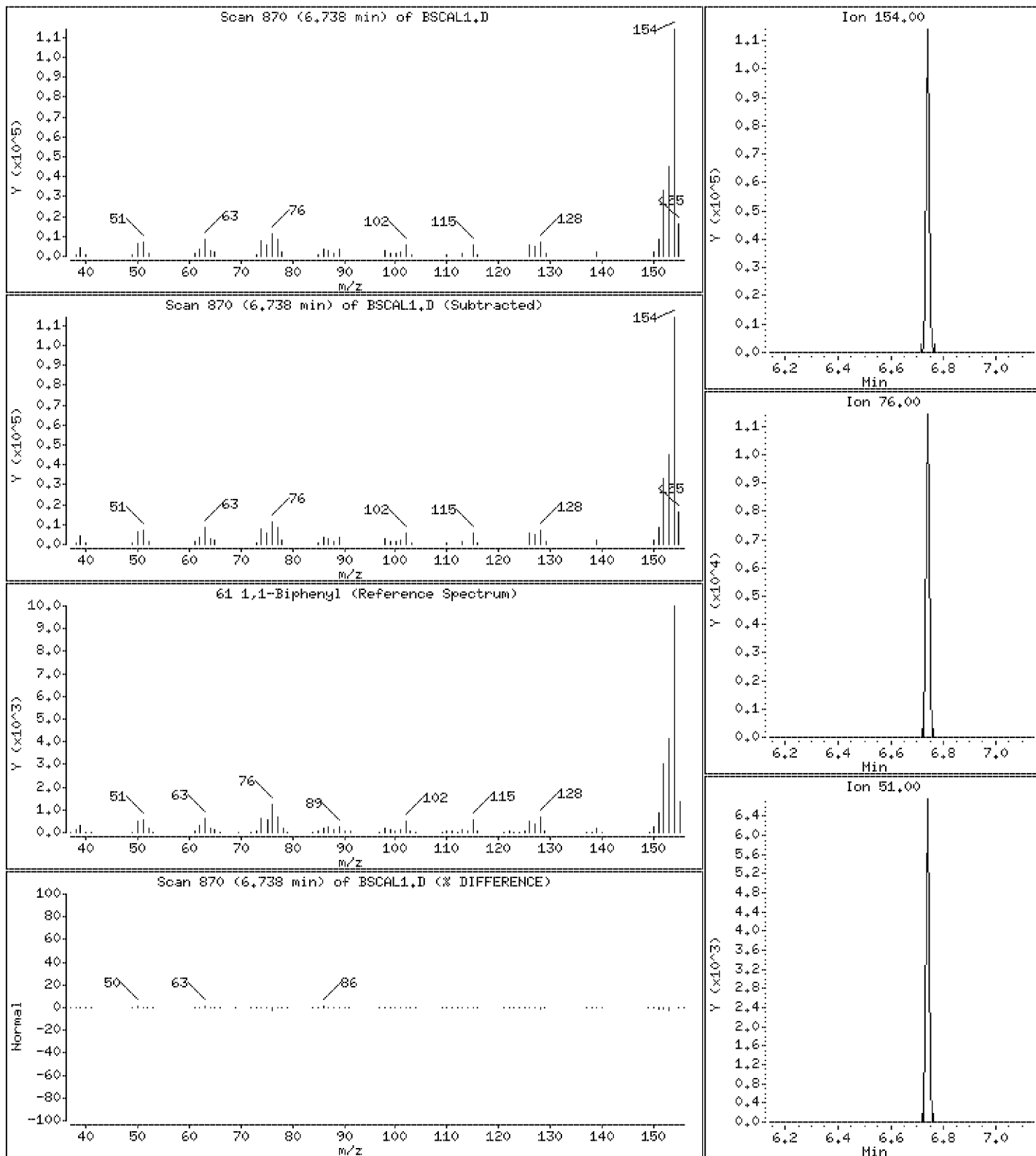
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

61 1,1-Biphenyl

Concentration: 3.7 ug/l



Date : 23-APR-2012 16:19

Client ID: BSCAL1

Instrument: smsd03.i

Sample Info: 45939

Purge Volume: 1000.0

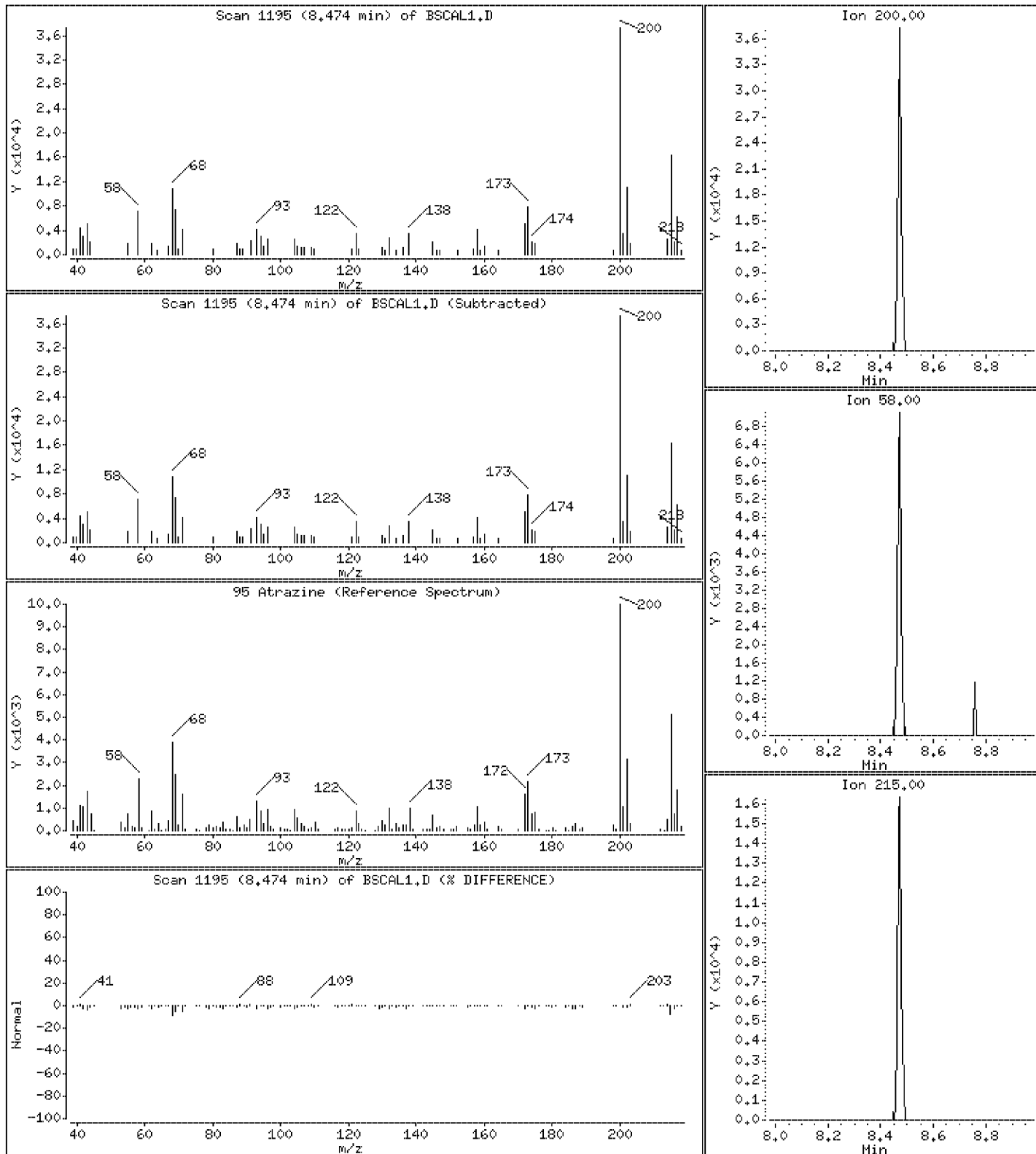
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

95 Atrazine

Concentration: 3.5 ug/l



Date : 23-APR-2012 16:19

Client ID: BSCAL1

Instrument: smsd03.i

Sample Info: 45939

Purge Volume: 1000.0

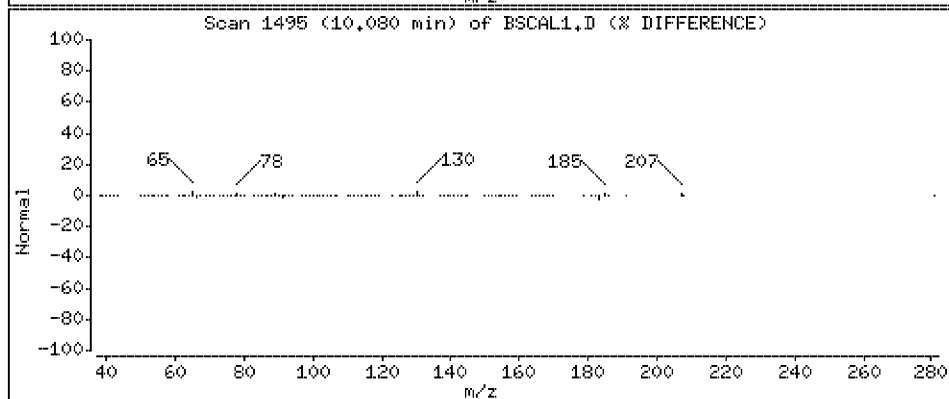
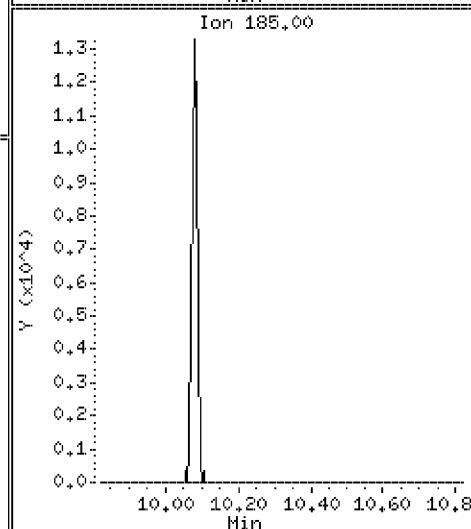
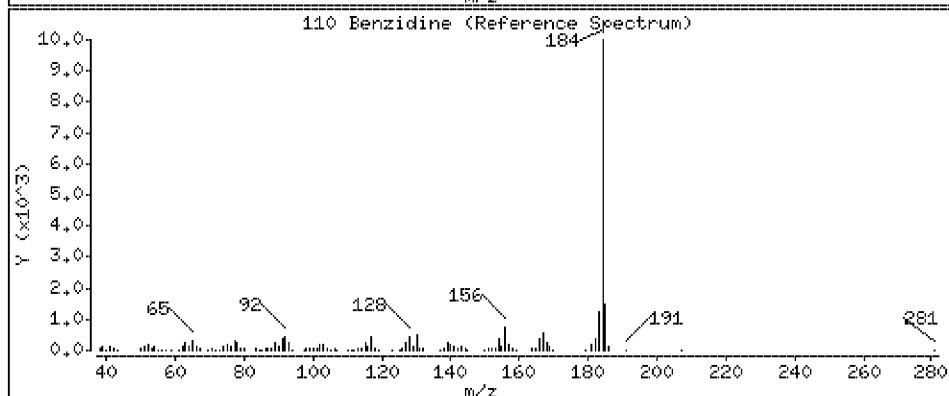
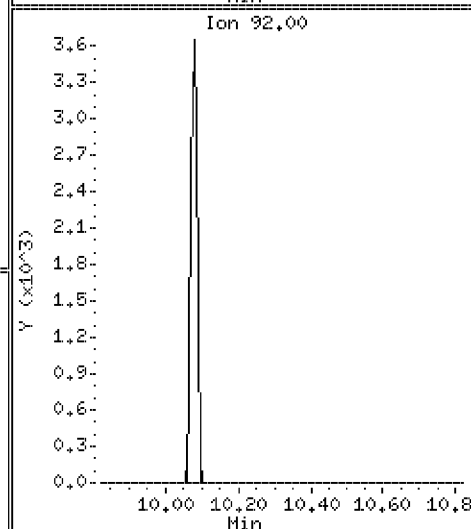
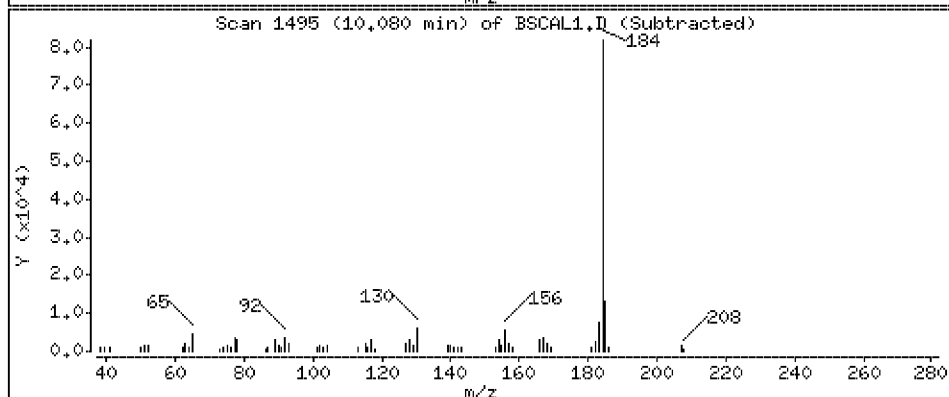
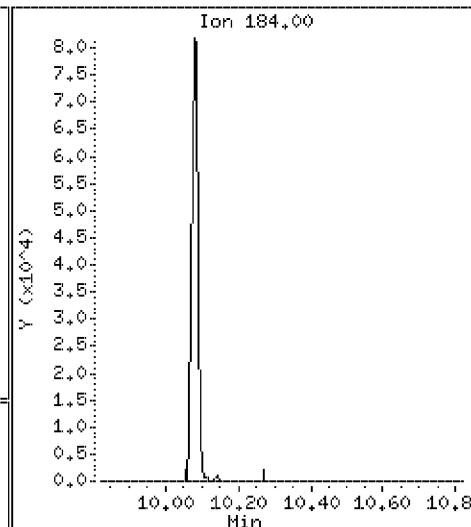
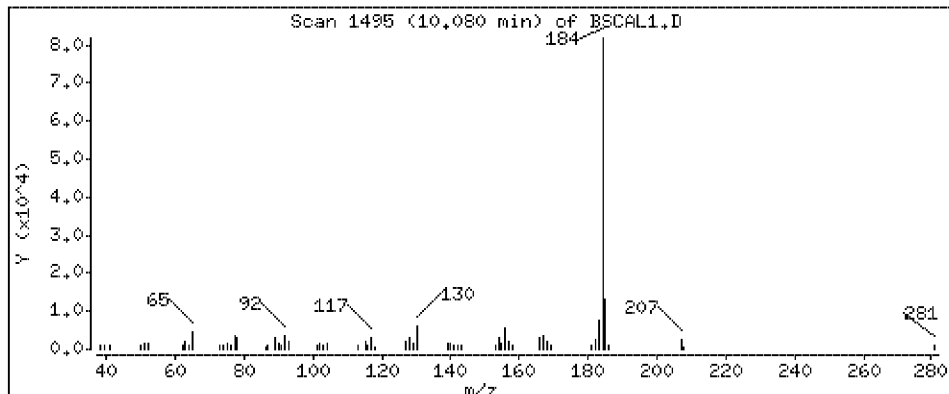
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

110 Benzidine

Concentration: 3.4 ug/l



Date : 23-APR-2012 16:19

Client ID: BSCAL1

Instrument: smsd03.i

Sample Info: 45939

Purge Volume: 1000.0

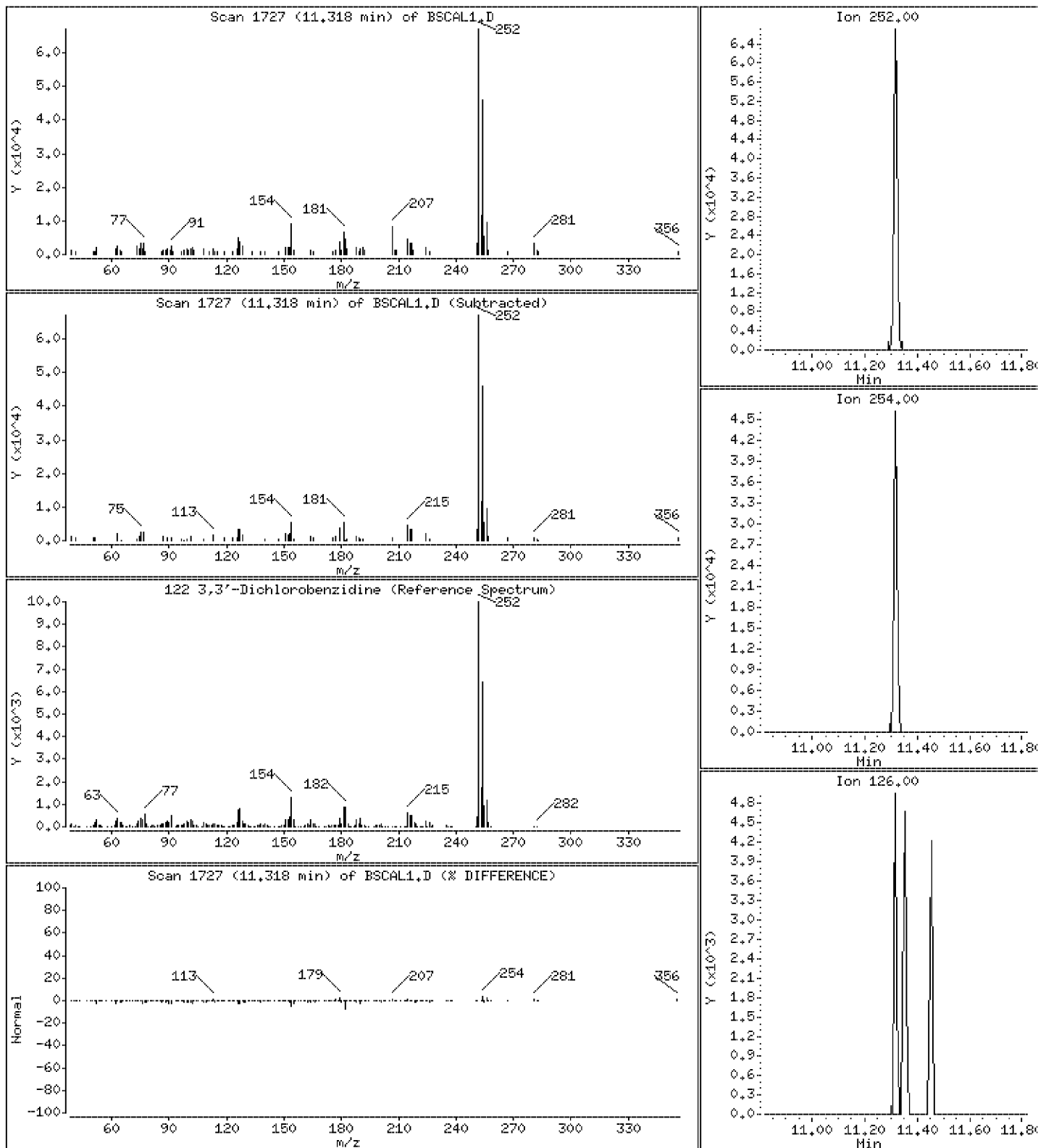
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

122 3,3'-Dichlorobenzidine

Concentration: 3.4 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3042312.b\BSSEC.D
 Lab Smp Id: 44859 Client Smp ID: BSSEC
 Inj Date : 23-APR-2012 16:42 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 44859
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270bcs.m
 Meth Date : 25-Apr-2012 09:57 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 16:19 Cal File: BSCAL1.D
 Als bottle: 17 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: BZSOWcal.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
9 Benzaldehyde CAS #: 100-52-7									
4.075	4.161	(0.917)	77	469328	45.0000	42.5	70.00- 130.00	100.00	
4.075	4.161	(0.917)	106	359360			0.00- 30.92	76.57	
4.075	4.161	(0.917)	51	166631			231.65- 291.65	35.50	
* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.446	4.448	(1.000)	152	361974	40.0000		80.00- 120.00	100.00	
4.446	4.448	(1.000)	115	230050			32.20- 92.20	63.55	
4.446	4.448	(1.000)	150	546666			139.77- 199.77	151.02	
25 Acetophenone CAS #: 98-86-2									
4.798	4.807	(0.856)	105	745792	45.0000	41.4	70.00- 130.00	100.00	
4.797	4.807	(0.856)	77	747634			4410.01-4470.01	100.25	
4.797	4.807	(0.856)	51	183996			1262.06-1322.06	24.67	
* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.607	5.610	(1.000)	136	1195811	40.0000		80.00- 120.00	100.00	
5.607	5.610	(1.000)	68	63913			0.00- 35.51	5.34	
50 Caprolactam CAS #: 105-60-2									
6.002	6.158	(1.070)	55	130177	45.0000	38.4	70.00- 130.00	100.00	
6.002	6.158	(1.070)	113	140736			106.52- 166.52	108.11	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
50 Caprolactam (continued)								
6.002	6.158	(1.070)	85	103392			55.05- 115.05	79.42

61 1,1-Biphenyl								
						CAS #: 92-52-4		
6.739	6.642	(0.923)	154	1361594	45.0000	39.7	70.00- 130.00	100.00
6.738	6.642	(0.923)	76	172809			1762.39-1822.39	12.69
6.738	6.642	(0.923)	51	85245			1618.22-1678.22	6.26

* 70 Acenaphthene-d10								
						CAS #: 15067-26-2		
7.303	7.305	(1.000)	164	861746	40.0000		80.00- 120.00	100.00
7.303	7.305	(1.000)	162	819720			64.73- 124.73	95.12
7.303	7.305	(1.000)	160	376632			12.46- 72.46	43.71

95 Atrazine								
						CAS #: 1912-24-9		
8.479	8.479	(0.968)	200	439119	45.0000	39.6	80.00- 120.00	100.00
8.478	8.479	(0.968)	58	98989			0.00- 52.18	22.54
8.479	8.479	(0.968)	215	232360			22.24- 82.24	52.92

* 100 Phenanthrene-d10								
						CAS #: 1517-22-2		
8.758	8.761	(1.000)	188	1655060	40.0000		80.00- 120.00	100.00
8.758	8.761	(1.000)	94	103644			0.00- 36.35	6.26
8.757	8.761	(1.000)	80	126560			0.00- 37.82	7.65

110 Benzidine								
						CAS #: 92-87-5		
10.085	10.322	(0.888)	184	1456068	45.0000	44.8	70.00- 130.00	100.00
10.084	10.322	(0.888)	92	68188			36.43- 96.43	4.68
10.084	10.322	(0.888)	185	214827			0.00- 47.46	14.75

122 3,3'-Dichlorobenzidine								
						CAS #: 91-94-1		
11.321	11.321	(0.997)	252	1128784	45.0000	46.1	80.00- 120.00	100.00
11.321	11.321	(0.997)	254	727842			34.83- 94.83	64.48
11.320	11.321	(0.997)	126	79428			0.00- 37.08	7.04

* 121 Chrysene-d12								
						CAS #: 1719-03-5		
11.355	11.359	(1.000)	240	2116274	40.0000		80.00- 120.00	100.00
11.353	11.359	(1.000)	120	116603			0.00- 36.38	5.51
11.355	11.359	(1.000)	236	568538			0.00- 57.06	26.87

* 130 Perylene-d12								
						CAS #: 1520-96-3		
12.682	12.682	(1.000)	264	2121570	40.0000		80.00- 120.00	100.00
12.682	12.682	(1.000)	260	527245			0.00- 54.80	24.85
12.682	12.682	(1.000)	265	499671			0.00- 53.39	23.55

Date : 23-APR-2012 16:42

Client ID: BSSEC

Instrument: smsd03.i

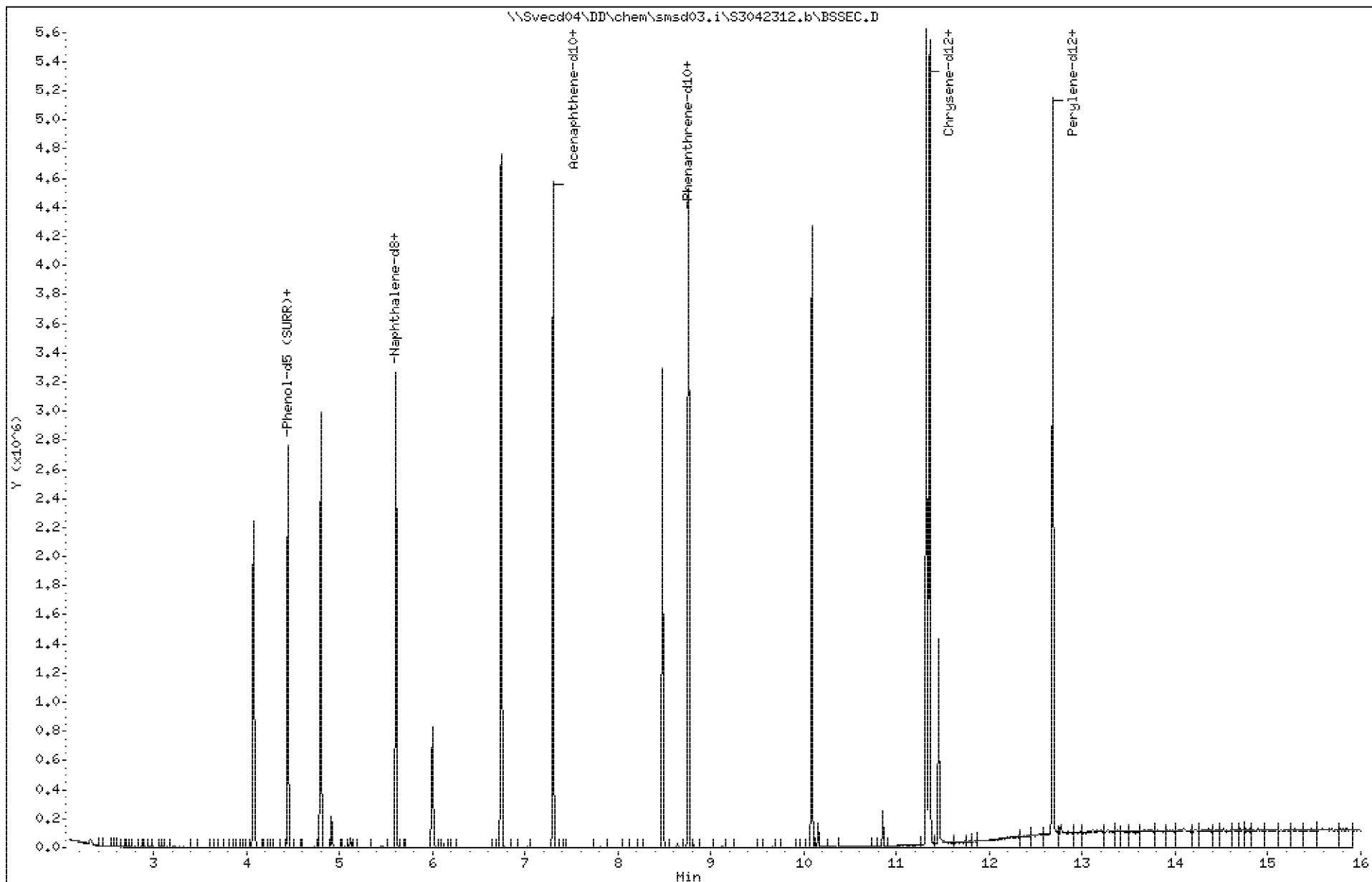
Sample Info: 44859

Operator: PEL

Purge Volume: 1000.0

Column diameter: 0.25

Column phase: HPMS-5



Date : 23-APR-2012 16:42

Client ID: BSSEC

Instrument: smsd03.i

Sample Info: 44859

Purge Volume: 1000.0

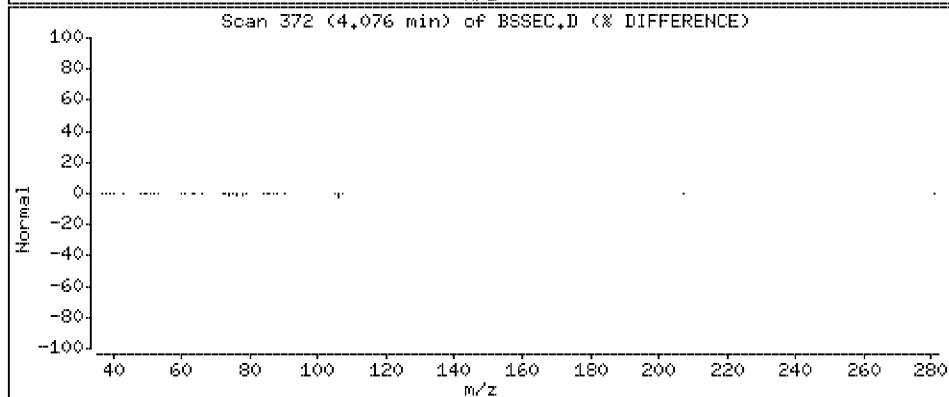
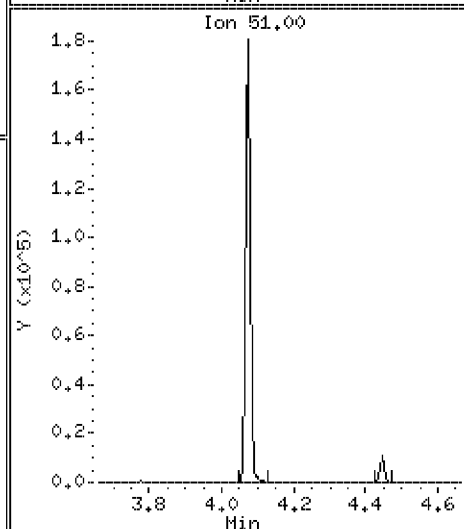
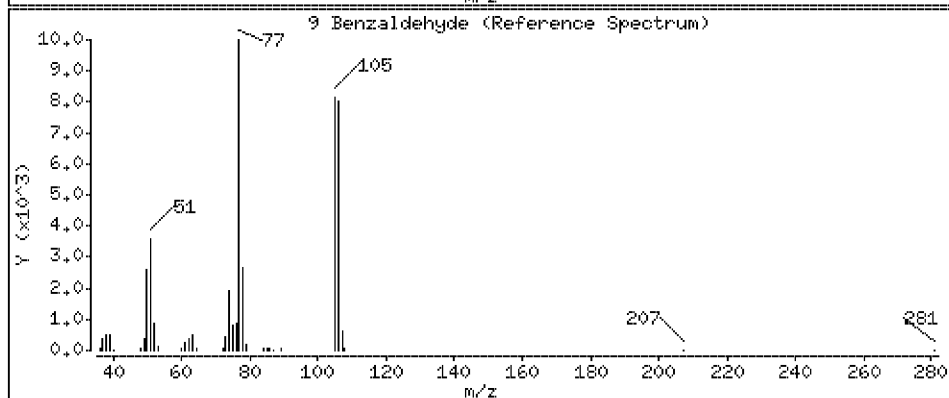
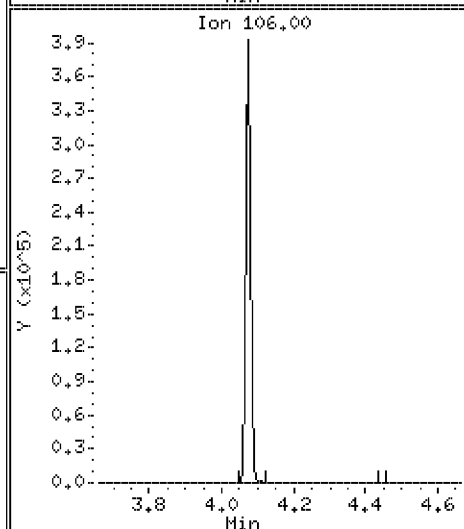
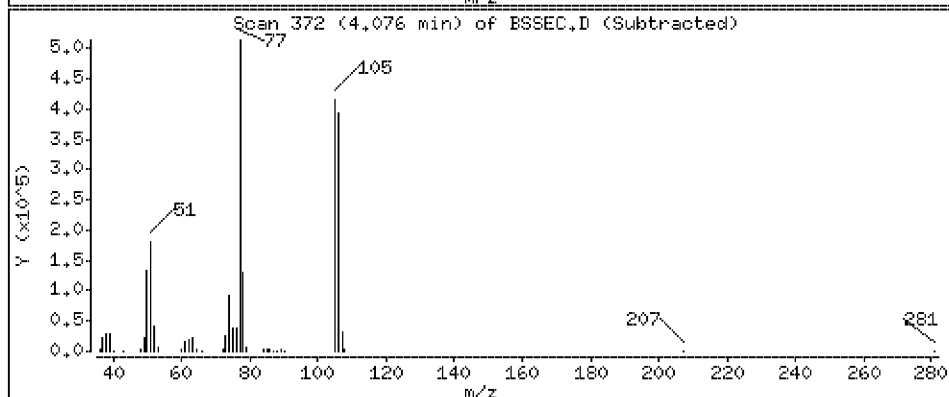
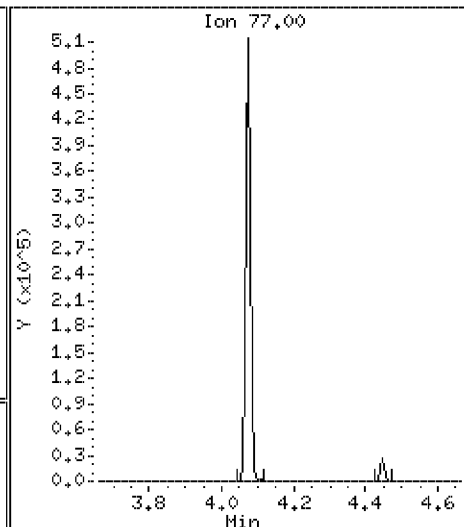
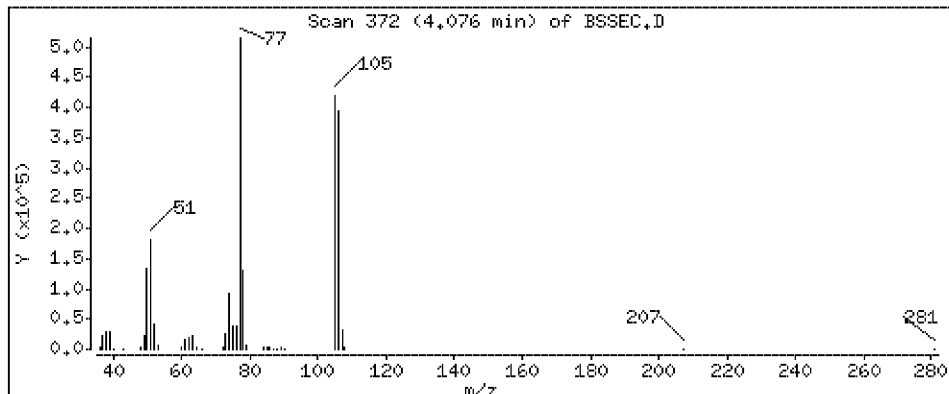
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

9 Benzaldehyde

Concentration: 42.5 ug/l



Date : 23-APR-2012 16:42

Client ID: BSSEC

Instrument: smsd03.i

Sample Info: 44859

Purge Volume: 1000.0

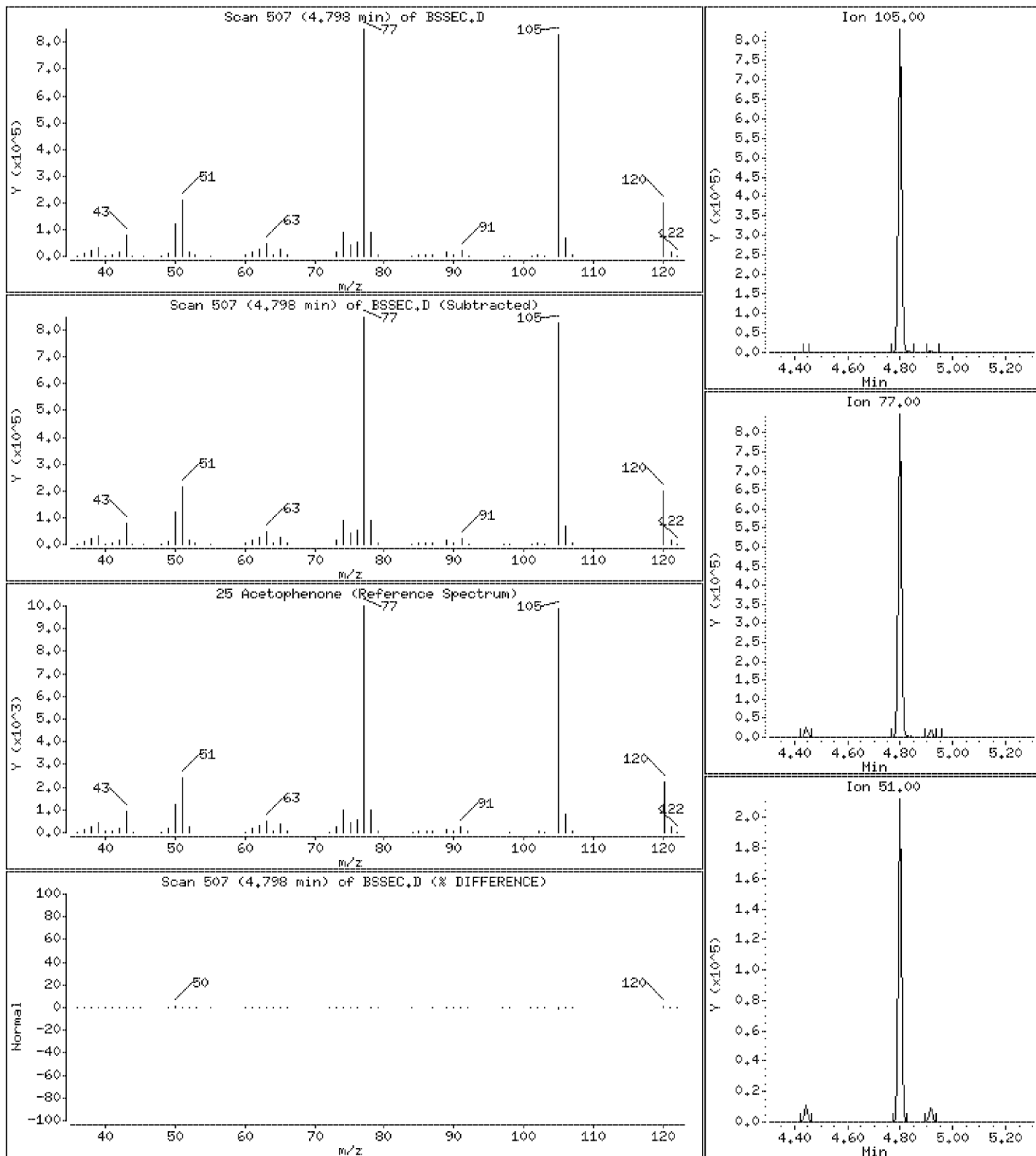
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

25 Acetophenone

Concentration: 41.4 ug/l



Date : 23-APR-2012 16:42

Client ID: BSSEC

Instrument: smsd03.i

Sample Info: 44859

Purge Volume: 1000.0

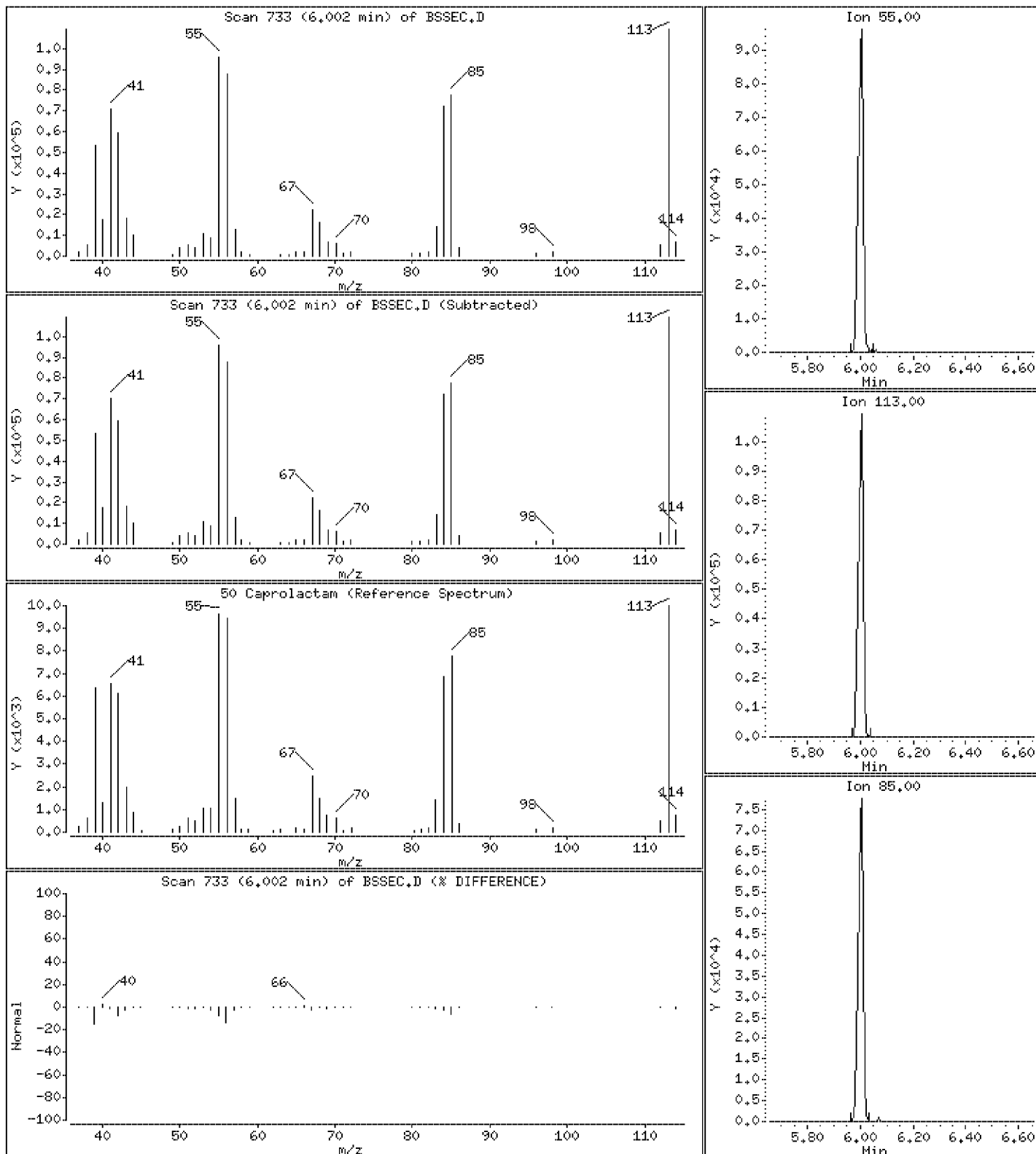
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

50 Caprolactam

Concentration: 38.4 ug/l



Date : 23-APR-2012 16:42

Client ID: BSSEC

Instrument: smsd03.i

Sample Info: 44859

Purge Volume: 1000.0

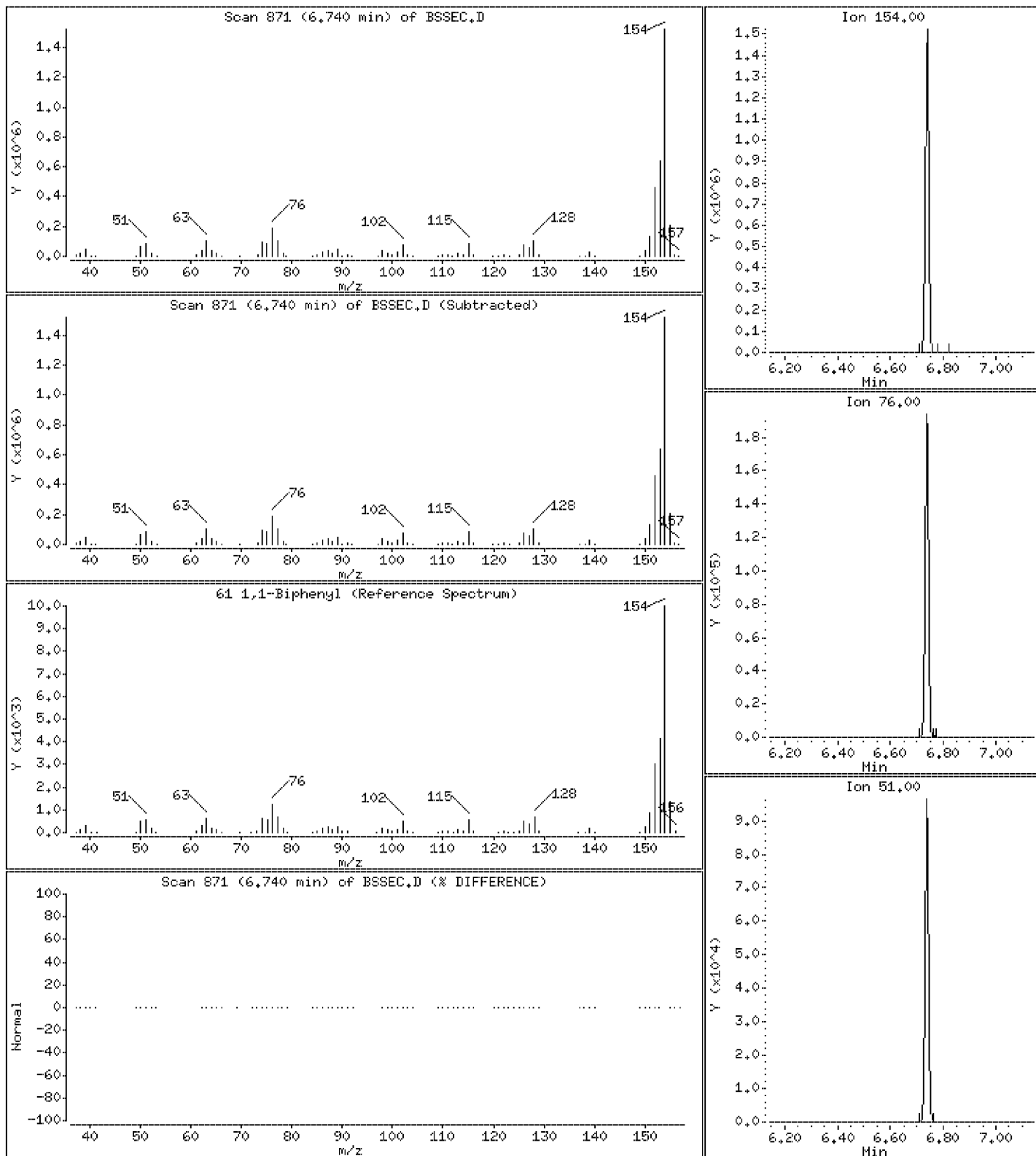
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

61 1,1-Biphenyl

Concentration: 39.7 ug/l



Date : 23-APR-2012 16:42

Client ID: BSSEC

Instrument: smsd03.i

Sample Info: 44859

Purge Volume: 1000.0

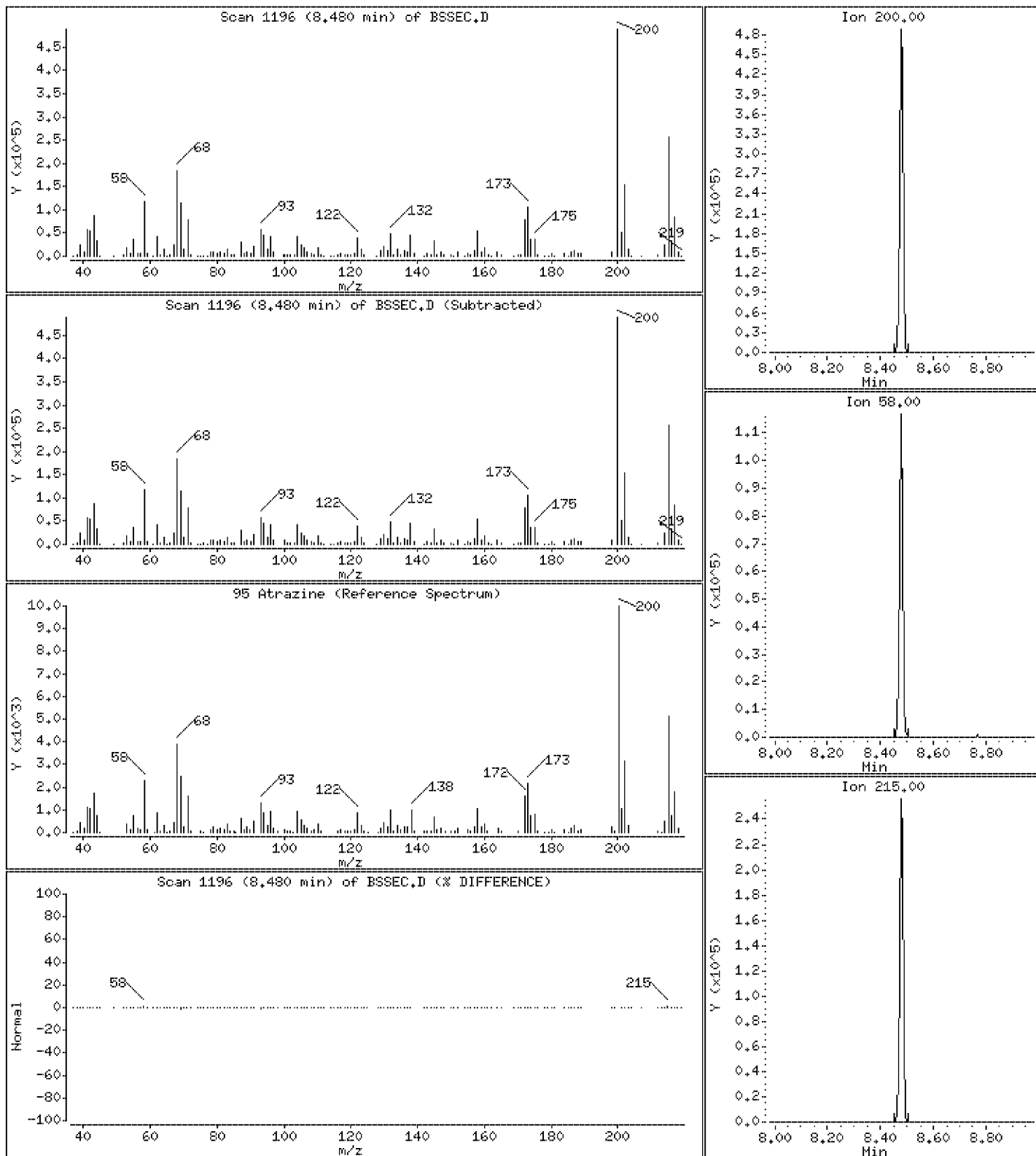
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

95 Atrazine

Concentration: 39.6 ug/l



Date : 23-APR-2012 16:42

Client ID: BSSEC

Instrument: smsd03.i

Sample Info: 44859

Purge Volume: 1000.0

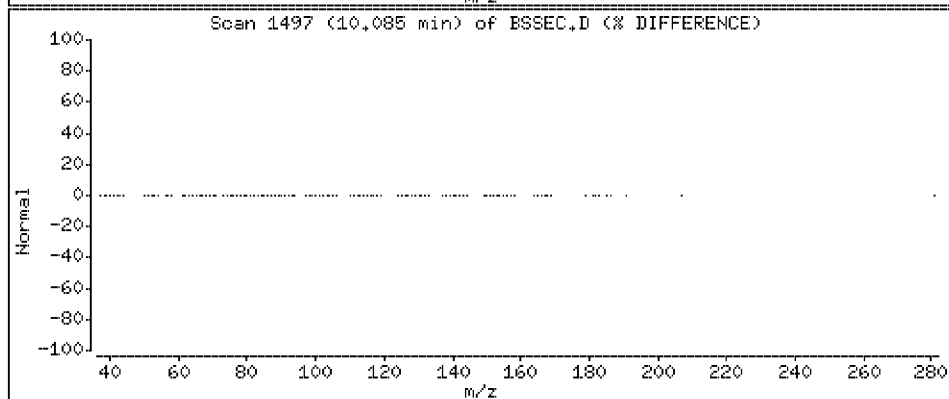
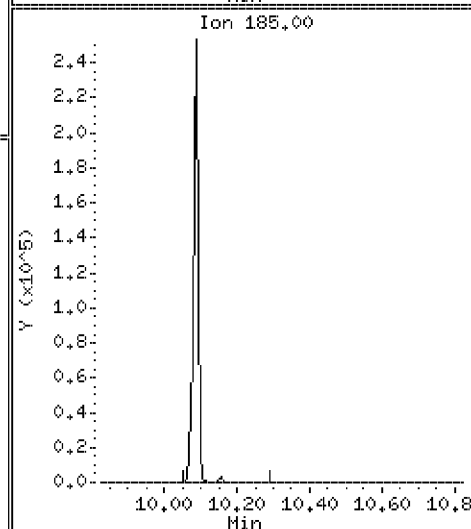
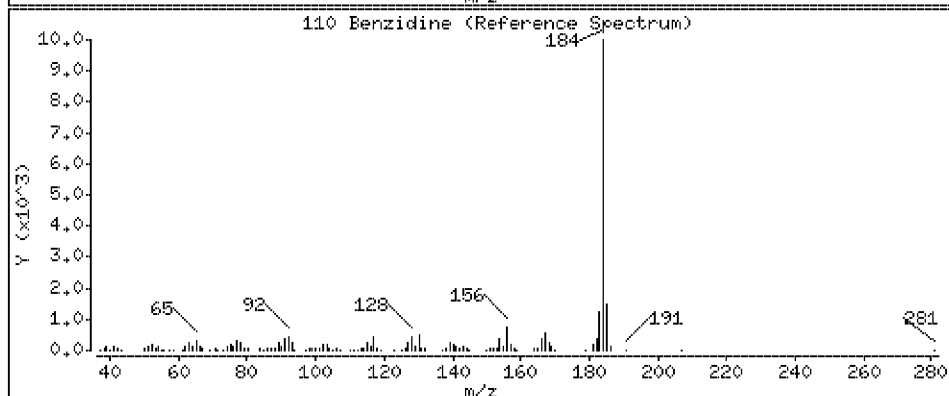
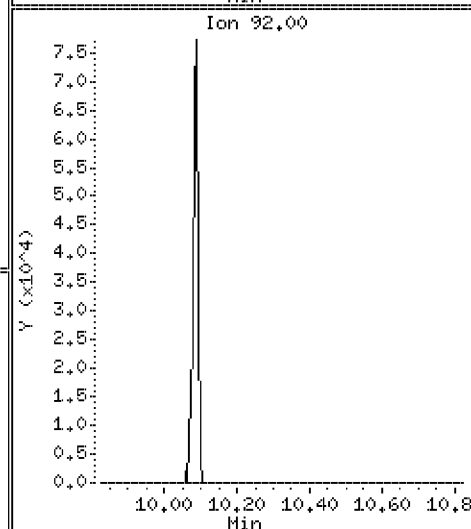
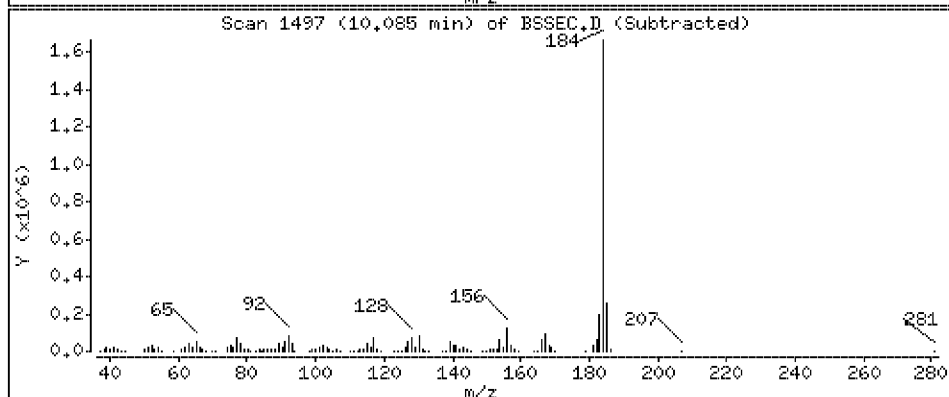
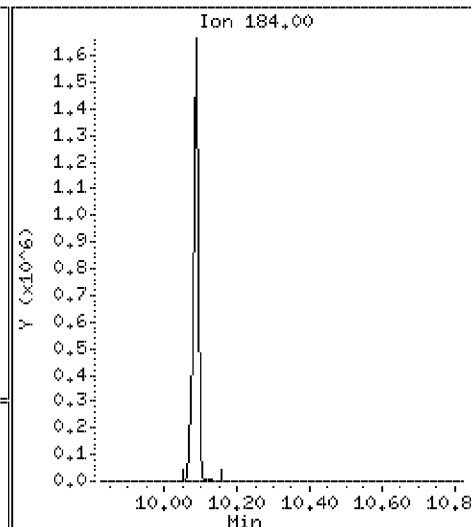
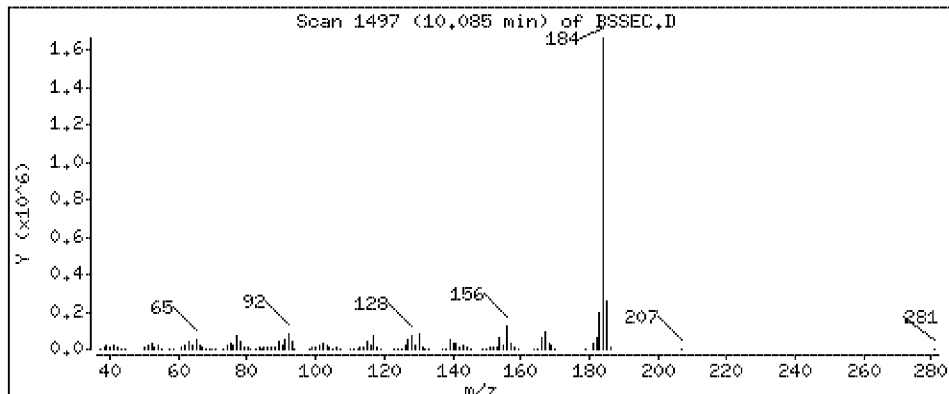
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

110 Benzidine

Concentration: 44.8 ug/l



Date : 23-APR-2012 16:42

Client ID: BSSEC

Instrument: smsd03.i

Sample Info: 44859

Purge Volume: 1000.0

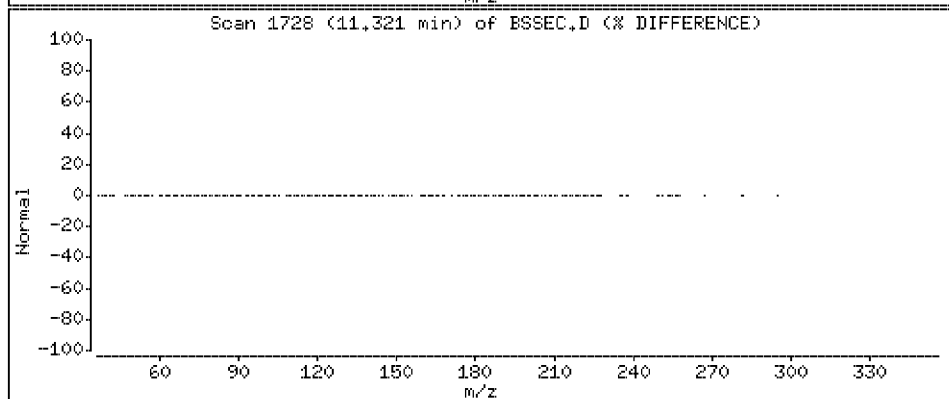
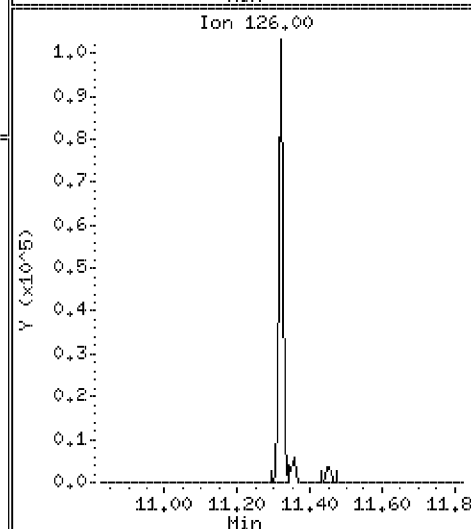
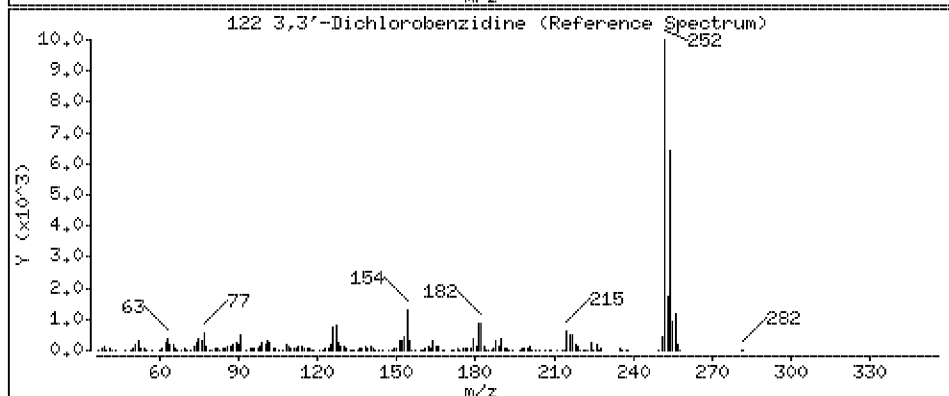
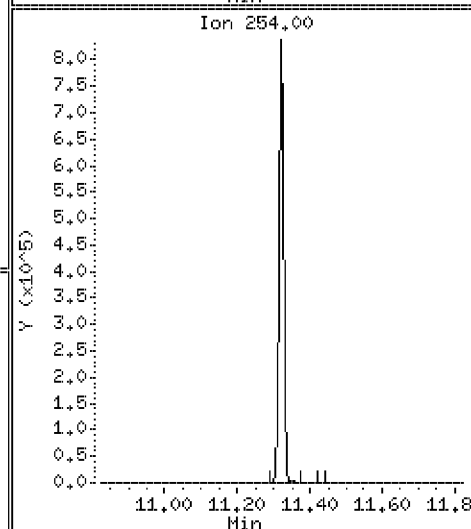
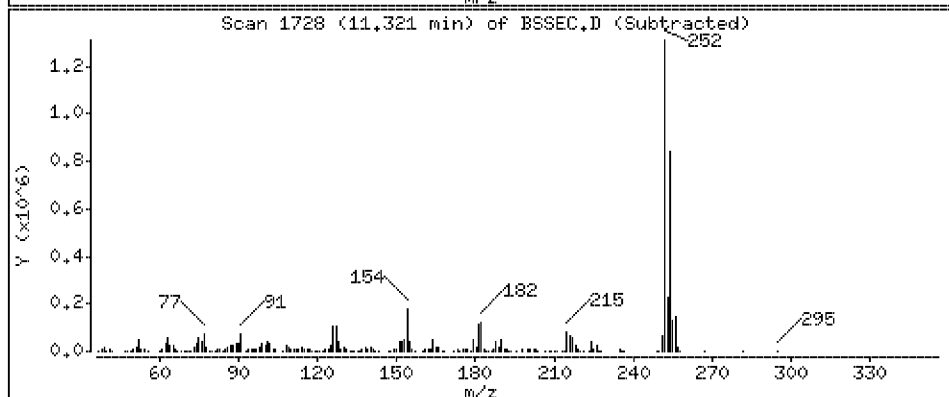
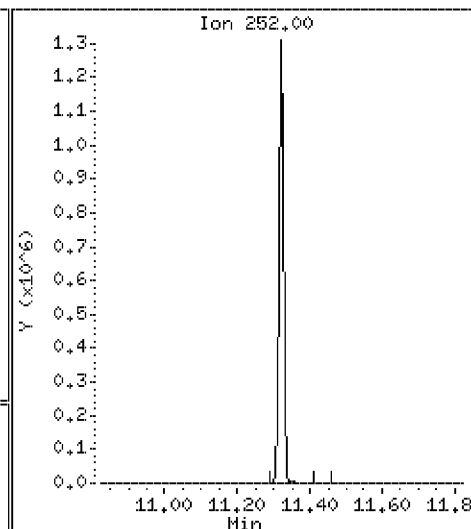
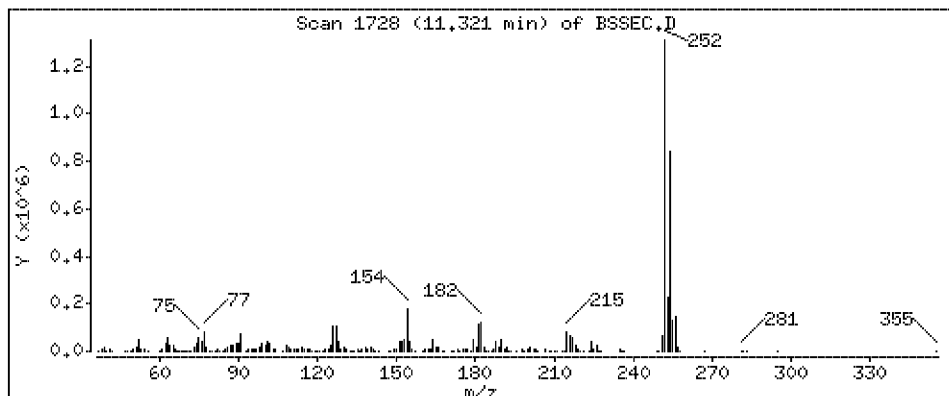
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

122 3,3'-Dichlorobenzidine

Concentration: 46.1 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3042312.b\AP9CAL7.D
 Lab Smp Id: 45955 Client Smp ID: AP9CAL7
 Inj Date : 23-APR-2012 17:06 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 45955
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270bcs.m
 Meth Date : 25-Apr-2012 09:57 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 17:06 Cal File: AP9CAL7.D
 Als bottle: 18 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ap9cal.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
3 2- Picoline CAS #: 109-06-8									
2.927	3.382	(0.658)	93	1063275	100.000	106	70.00- 130.00	100.00(TAQ)	
2.926	3.382	(0.658)	66	538575			46.98- 106.98	50.65	
2.927	3.382	(0.658)	92	283488			941.44-1001.44	26.66	
4 N-Nitrosomethylethylamine CAS #: 10595-95-6									
3.007	3.005	(0.676)	88	450421	100.000	105	80.00- 120.00	100.00(A)	
3.007	3.005	(0.676)	43	204803			16.66- 76.66	45.47	
3.007	3.005	(0.676)	42	432211			75.28- 135.28	95.96	
5 Methyl Methanesulfonate CAS #: 66-27-3									
3.243	3.383	(0.729)	80	722934	100.000	102	70.00- 130.00	100.00(AQ)	
3.243	3.383	(0.729)	79	430164			41.30- 101.30	59.50	
3.243	3.383	(0.729)	65	194397			390.98- 450.98	26.89	
7 N-Nitrosodiethylamine CAS #: 55-18-5									
3.554	3.383	(0.799)	102	467106	100.000	110	70.00- 130.00	100.00(AQ)	
3.554	3.383	(0.799)	42	308525			4947.35-5007.35	66.05	
3.554	3.383	(0.799)	57	197552			172953.97-173013.97	42.29	
8 Ethyl Methanesulfonate CAS #: 62-50-0									
3.793	4.446	(0.853)	79	764256	100.000	104	70.00- 130.00	100.00(TA)	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
8 Ethyl Methanesulfonate (continued)								
3.793	4.446	(0.853)	109	409536			103.08- 163.08	53.59
3.793	4.446	(0.853)	97	147229			71.09- 131.09	19.26

12 Pentachloroethane CAS #: 76-01-7								
4.208	4.207	(0.946)	167	458302	100.000	109	80.00- 120.00	100.00(A)
4.207	4.207	(0.946)	117	332036			42.54- 102.54	72.45
4.207	4.207	(0.946)	130	191818			11.81- 71.81	41.85

* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1								
4.447	4.448	(1.000)	152	274645	40.0000		80.00- 120.00	100.00
4.446	4.448	(1.000)	115	175115			32.20- 92.20	63.76
4.447	4.448	(1.000)	150	406605			139.77- 199.77	148.05

24 N-Nitrosopyrrolidine CAS #: 930-55-2								
4.797	4.944	(1.079)	100	514011	100.000	115	70.00- 130.00	100.00(AQ)
4.795	4.944	(1.078)	41	340573			349.38- 409.38	66.26
4.796	4.944	(1.079)	42	319956			7836.39-7896.39	62.25

25 Acetophenone CAS #: 98-86-2								
4.804	4.807	(0.857)	105	1435155	100.000	108	70.00- 130.00	100.00(AQ)
4.804	4.807	(0.856)	77	1434285			4410.01-4470.01	99.94
4.803	4.807	(0.856)	51	366172			1262.06-1322.06	25.51

27 N-Nitrosomorpholine CAS #: 59-89-2								
4.826	4.446	(1.085)	56	512079	100.000	112	70.00- 130.00	100.00(TAQ)
4.826	4.446	(1.085)	116	183270			116.25- 176.25	35.79
4.826	4.446	(1.085)	86	355814			171.65- 231.65	69.48

29 o-Toluidine CAS #: 95-53-4								
4.841	4.814	(1.089)	106	1617833	100.000	111	70.00- 130.00	100.00(AQ)
4.841	4.814	(1.089)	77	380737			36058.41-36118.41	23.53
4.841	4.814	(1.089)	107	1195112			76505.71-76565.71	73.87

33 N-Nitrosopiperidine CAS #: 100-75-4								
5.100	4.798	(0.909)	114	442451	100.000	109	70.00- 130.00	100.00(AQ)
5.099	4.798	(0.909)	42	493644			3934.42-3994.42	111.57
5.099	4.798	(0.909)	55	251916			491.51- 551.51	56.94

37 o,o,o-Triethylphosphorothioate CAS #: 126-68-1								
5.340	5.338	(1.201)	198	753869	100.000	114	80.00- 120.00	100.00(A)
5.339	5.338	(1.201)	97	488454			34.93- 94.93	64.79
5.338	5.338	(1.200)	65	393872			24.79- 84.79	52.25

39 a,a-Dimethylphenethylamine CAS #: 122-09-8								
5.443	5.370	(0.971)	58	1534331	100.000	108	70.00- 130.00	100.00(AQM)
5.444	5.370	(0.971)	91	463288			64.34- 124.34	30.19
5.444	5.370	(0.971)	65	259635			12409.05-12469.05	16.92

* 43 Naphthalene-d8 CAS #: 1146-65-2								
5.609	5.610	(1.000)	136	932177	40.0000		80.00- 120.00	100.00
5.607	5.610	(1.000)	68	49200			0.00- 35.51	5.28

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
46 2,6-Dichlorophenol					CAS #: 87-65-0			
5.696	5.691	(1.016)	162	873368	100.000	112	70.00- 130.00	100.00(A)
5.695	5.691	(1.015)	63	622340			8424.37-8484.37	71.26
5.695	5.691	(1.015)	98	240489			164.07- 224.07	27.54

47 Hexachloropropene					CAS #: 1888-71-7			
5.713	5.712	(1.019)	213	1136925	100.000	110	80.00- 120.00	100.00(A)
5.713	5.712	(1.019)	215	737250			34.61- 94.61	64.85
5.713	5.712	(1.019)	117	238389			0.00- 50.39	20.97

49 N-Nitrosodi-n-butylamine					CAS #: 924-16-3			
5.997	6.287	(1.069)	84	847227	100.000	113	70.00- 130.00	100.00(AQ)
5.997	6.287	(1.069)	57	495794			1288.18-1348.18	58.52
5.996	6.287	(1.069)	41	417479			66.46- 126.46	49.28

52 Isosafrole					CAS #: 120-58-1			
6.203	6.619	(1.106)	162	848504	100.000	112	70.00- 130.00	100.00(TAQ)
6.202	6.619	(1.106)	104	619201			0.00- 46.22	72.98
6.202	6.619	(1.106)	131	421879			37.69- 97.69	49.72

56 1,2,4,5-Tetrachlorobenzene					CAS #: 95-94-3			
6.454	6.452	(0.884)	216	1334082	100.000	108	80.00- 120.00	100.00(A)
6.454	6.452	(0.884)	214	1059200			48.19- 108.19	79.40
6.453	6.452	(0.883)	108	242682			0.00- 47.81	18.19

60 Safrole					CAS #: 94-59-7			
6.704	6.619	(1.195)	162	810742	100.000	114	70.00- 130.00	100.00(AQ)
6.704	6.619	(1.195)	104	506846			0.00- 46.22	62.52
6.704	6.619	(1.195)	77	321233			0.00- 57.00	39.62

64 1,4-Naphthoquinone					CAS #: 130-15-4			
6.935	6.642	(0.949)	158	769946	100.000	111	70.00- 130.00	100.00(AQ)
6.934	6.642	(0.949)	102	642799			523.56- 583.56	83.49
6.934	6.642	(0.949)	130	341277			0.00- 46.52	44.32

66 1,3-Dinitrobenzene					CAS #: 99-65-0			
7.072	7.368	(0.968)	168	365922	100.000	111	70.00- 130.00	100.00(AQ)
7.072	7.368	(0.968)	75	459984			98.40- 158.40	125.71
7.071	7.368	(0.968)	50	258424			177.84- 237.84	70.62

* 70 Acenaphthene-d10					CAS #: 15067-26-2			
7.304	7.305	(1.000)	164	648924	40.0000		80.00- 120.00	100.00
7.304	7.305	(1.000)	162	619314			64.73- 124.73	95.44
7.304	7.305	(1.000)	160	281073			12.46- 72.46	43.31

73 Pentachlorobenzene					CAS #: 608-93-5			
7.470	7.467	(1.023)	250	1321477	100.000	110	80.00- 120.00	100.00(A)
7.470	7.467	(1.023)	252	887101			34.92- 94.92	67.13
7.468	7.467	(1.022)	108	361543			0.00- 56.94	27.36

77 1-Naphthylamine					CAS #: 134-32-7			
7.584	7.837	(1.038)	143	1187709	100.000	105	70.00- 130.00	100.00(AQ)
7.584	7.837	(1.038)	115	679901			7143.21-7203.21	57.24

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====
77 1-Naphthylamine (continued)								
7.584	7.837	(1.038)	89	135782			2068.79-2128.79	11.43

78 2,3,4,6-Tetrachlorophenol CAS #: 58-90-2								
7.639	7.634	(1.046)	232	758159	100.000	115	70.00- 130.00	100.00(A)
7.638	7.634	(1.046)	168	205381			42.05- 102.05	27.09
7.638	7.634	(1.046)	131	314637			9.10- 69.10	41.50

79 2-Naphthylamine CAS #: 91-59-8								
7.665	7.837	(1.049)	143	1569844	100.000	106	70.00- 130.00	100.00(AQ)
7.664	7.837	(1.049)	115	902224			7143.21-7203.21	57.47
7.665	7.837	(1.049)	116	355711			667.96- 727.96	22.66

83 5-Nitro-ortho-toluidine CAS #: 99-55-8								
7.862	7.896	(1.076)	152	629387	100.000	109	70.00- 130.00	100.00(AQ)
7.862	7.896	(1.076)	106	464571			505.60- 565.60	73.81
7.861	7.896	(1.076)	77	792000			735.48- 795.48	125.84

90 1,3,5-Trinitrobenzene CAS #: 99-35-4								
8.225	8.152	(1.126)	75	1687776	100.000	102	70.00- 130.00	100.00(AQ)
8.225	8.152	(1.126)	74	1073695			50.14- 110.14	63.62
8.226	8.152	(1.126)	213	664696			40.88- 100.88	39.38

89 Diallate CAS #: 2303-16-4								
8.232	8.081	(1.127)	86	953832	100.000	118	70.00- 130.00	100.00(AQM)
8.232	8.081	(1.127)	43	886763			0.00- 38.70	92.97
8.237	8.081	(1.128)	234	648083			0.00- 39.00	67.95

92 Phenacetin CAS #: 62-44-2								
8.277	8.384	(0.945)	109	1034076	100.000	103	70.00- 130.00	100.00(AQ)
8.277	8.384	(0.945)	108	1168639			77.38- 137.38	113.01
8.277	8.384	(0.945)	179	698071			133.19- 193.19	67.51

91 p-Phenylenediamine CAS #: 106-50-3								
8.277	8.082	(0.945)	108	1168639	100.000	106	70.00- 130.00	100.00(A)
8.276	8.082	(0.945)	80	329795			1858.68-1918.68	28.22
8.276	8.082	(0.944)	53	148213			5306.16-5366.16	12.68

97 Pentachloronitrobenzene CAS #: 82-68-8								
8.592	8.589	(0.981)	237	553543	100.000	107	80.00- 120.00	100.00(A)
8.593	8.589	(0.981)	295	224022			7.36- 67.36	40.47
8.590	8.589	(0.980)	142	397152			42.99- 102.99	71.75

98 4-Aminobiphenyl CAS #: 92-67-1								
8.581	8.584	(0.979)	169	2513792	100.000	101	70.00- 130.00	100.00(AQ)
8.581	8.584	(0.979)	168	600675			0.00- 49.63	23.90
8.580	8.584	(0.979)	115	317101			0.00- 40.98	12.61

99 Pronamide CAS #: 23950-58-5								
8.639	8.781	(0.986)	173	1309518	100.000	105	70.00- 130.00	100.00(AQ)
8.639	8.781	(0.986)	175	863701			2051.90-2111.90	65.96
8.639	8.781	(0.986)	145	511955			63.94- 123.94	39.09

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	====	=====	=====	=====	=====	=====	
* 100 Phenanthrene-d10					CAS #: 1517-22-2				
8.762	8.761	(1.000)	188	1445152	40.0000		80.00- 120.00	100.00	
8.761	8.761	(1.000)	94	95385			0.00- 36.35	6.60	
8.761	8.761	(1.000)	80	133936			0.00- 37.82	9.27	
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102 Dinoseb					CAS #: 88-85-7				
8.758	8.753	(1.000)	211	863563	100.000	100	80.00- 120.00	100.00(A)	
8.758	8.753	(1.000)	163	340033			7.77- 67.77	39.38	
8.757	8.753	(0.999)	117	196302			0.00- 52.05	22.73	
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106 4-Nitroquinoline-1-oxide					CAS #: 56-57-5				
9.551	9.334	(1.090)	174	26907	100.000	99.6	70.00- 130.00	100.00(QM)	
9.549	9.334	(1.090)	128	65857			429.24- 489.24	244.76	
9.549	9.334	(1.090)	101	117428			988.96-1048.96	436.42	
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107 Methapyrilene					CAS #: 91-80-5				
9.612	10.322	(1.097)	97	53312	100.000	110	70.00- 130.00	100.00(TAQ)	
9.611	10.322	(1.097)	58	52845			11.52- 71.52	99.12	
9.612	10.322	(1.097)	191	9333			0.00- 52.18	17.51	
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108 Isodrin					CAS #: 465-73-6				
9.803	10.279	(1.119)	193	459152	100.000	104	70.00- 130.00	100.00(AQ)	
9.802	10.279	(1.119)	66	400121			17952.44-18012.44	87.14	
9.803	10.279	(1.119)	195	394973			1135.23-1195.23	86.02	
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113 Aramite					CAS #: 140-57-8				
10.374	10.370	(0.914)	185	421596	100.000	107	80.00- 120.00	100.00(AM)	
10.374	10.370	(0.914)	191	219555			21.78- 81.78	52.08	
10.299	10.370	(0.907)	319	156882			6.67- 66.67	37.21	
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114 p-Dimethylamino azobenzene					CAS #: 60-11-7				
10.465	10.323	(0.922)	225	1106438	100.000	114	70.00- 130.00	100.00(AQ)	
10.464	10.323	(0.922)	120	1041345			99.50- 159.50	94.12	
10.464	10.323	(0.922)	77	1071168			9.48- 69.48	96.81	
-----					-----				
115 Chlorobenzilate					CAS #: 510-15-6				
10.507	10.503	(0.925)	251	1721851	100.000	114	80.00- 120.00	100.00(A)	
10.508	10.503	(0.925)	253	1163259			35.78- 95.78	67.56	
10.506	10.503	(0.925)	139	1535478			60.72- 120.72	89.18	
-----					-----				
116 Kepone					CAS #: 143-50-0				
10.849	10.840	(0.955)	272	251870	100.000	98.0	80.00- 120.00	100.00(QM)	
10.849	10.840	(0.955)	274	190307			51.74- 111.74	75.56	
11.100	10.840	(0.978)	237	349217			0.00- 59.52	138.65	
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117 3,3-Dimethylbenzidine					CAS #: 119-93-7				
10.796	10.799	(0.951)	212	2806332	100.000	95.0	70.00- 130.00	100.00(Q)	
10.796	10.799	(0.951)	106	211325			2299.94-2359.94	7.53	
10.796	10.799	(0.951)	180	231121			6.44- 66.44	8.24	
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119 2-Acetylaminofluorene					CAS #: 53-96-3				
11.049	10.324	(0.973)	181	2024237	100.000	119	70.00- 130.00	100.00(TAQ)	
11.050	10.324	(0.973)	223	1310915			491.83- 551.83	64.76	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
119 2-Acetylaminofluorene (continued)									
11.049	10.324	(0.973)	180	1704198			639.65- 699.65	84.19	

* 121 Chrysene-d12					CAS #: 1719-03-5				
11.355	11.359	(1.000)	240	1652208	40.0000		80.00- 120.00	100.00	
11.353	11.359	(1.000)	120	88837			0.00- 36.38	5.38	
11.355	11.359	(1.000)	236	440779			0.00- 57.06	26.68	

126 7,12-Dimethylbenz(a)anthracen					CAS #: 57-97-6				
12.326	12.088	(0.972)	256	2694774	100.000	115	70.00- 130.00	100.00(AQ)	
12.326	12.088	(0.972)	241	1601246			77.87- 137.87	59.42	
12.326	12.088	(0.972)	239	1320115			73.24- 133.24	48.99	

* 130 Perylene-d12					CAS #: 1520-96-3				
12.681	12.682	(1.000)	264	1650138	40.0000		80.00- 120.00	100.00	
12.680	12.682	(1.000)	260	408564			0.00- 54.80	24.76	
12.680	12.682	(1.000)	265	375387			0.00- 53.39	22.75	

131 3-Methylcholanthrene					CAS #: 56-49-5				
12.955	12.847	(1.022)	268	2981313	100.000	113	70.00- 130.00	100.00(A)	
12.955	12.847	(1.022)	252	1342270			13.23- 73.23	45.02	
12.955	12.847	(1.022)	253	1134420			6.61- 66.61	38.05	

132 Dibenz(a,j)acridine					CAS #: 224-42-0				
13.548	13.755	(1.068)	279	3937425	100.000	103	70.00- 130.00	100.00(AQ)	
13.548	13.755	(1.068)	280	1018095			0.00- 41.79	25.86	
13.548	13.755	(1.068)	277	652913			93.47- 153.47	16.58	

QC Flag Legend

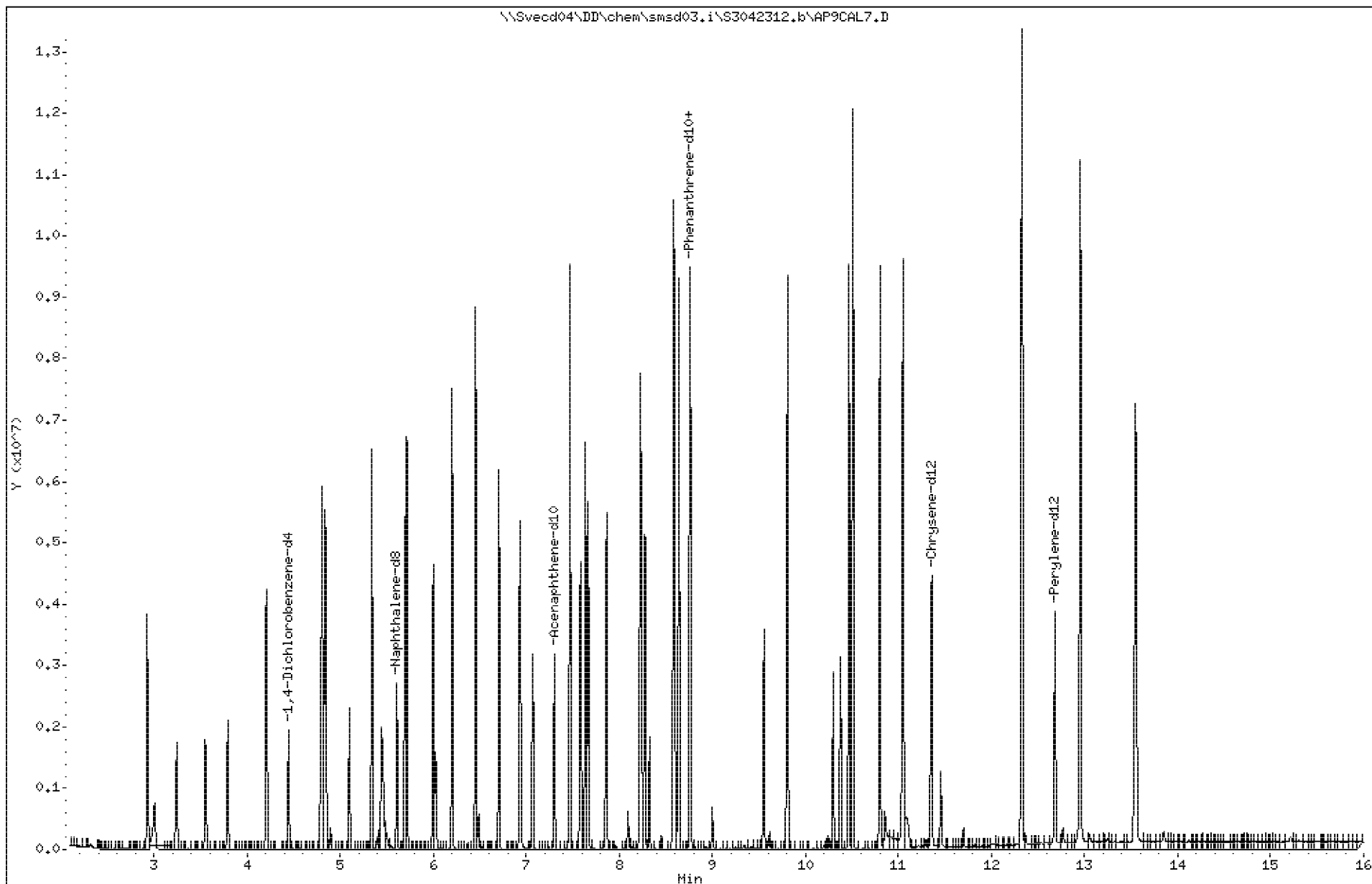
- T - Target compound detected outside RT window.
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd03.i\S3042312.b\AP9CAL7.D
Date : 23-APR-2012 17:06
Client ID: AP9CAL7
Sample Info: 45955
Purge Volume: 1000.0
Column phase: HPMS-5

Instrument: smsd03.i

Operator: PEL

Column diameter: 0.25



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

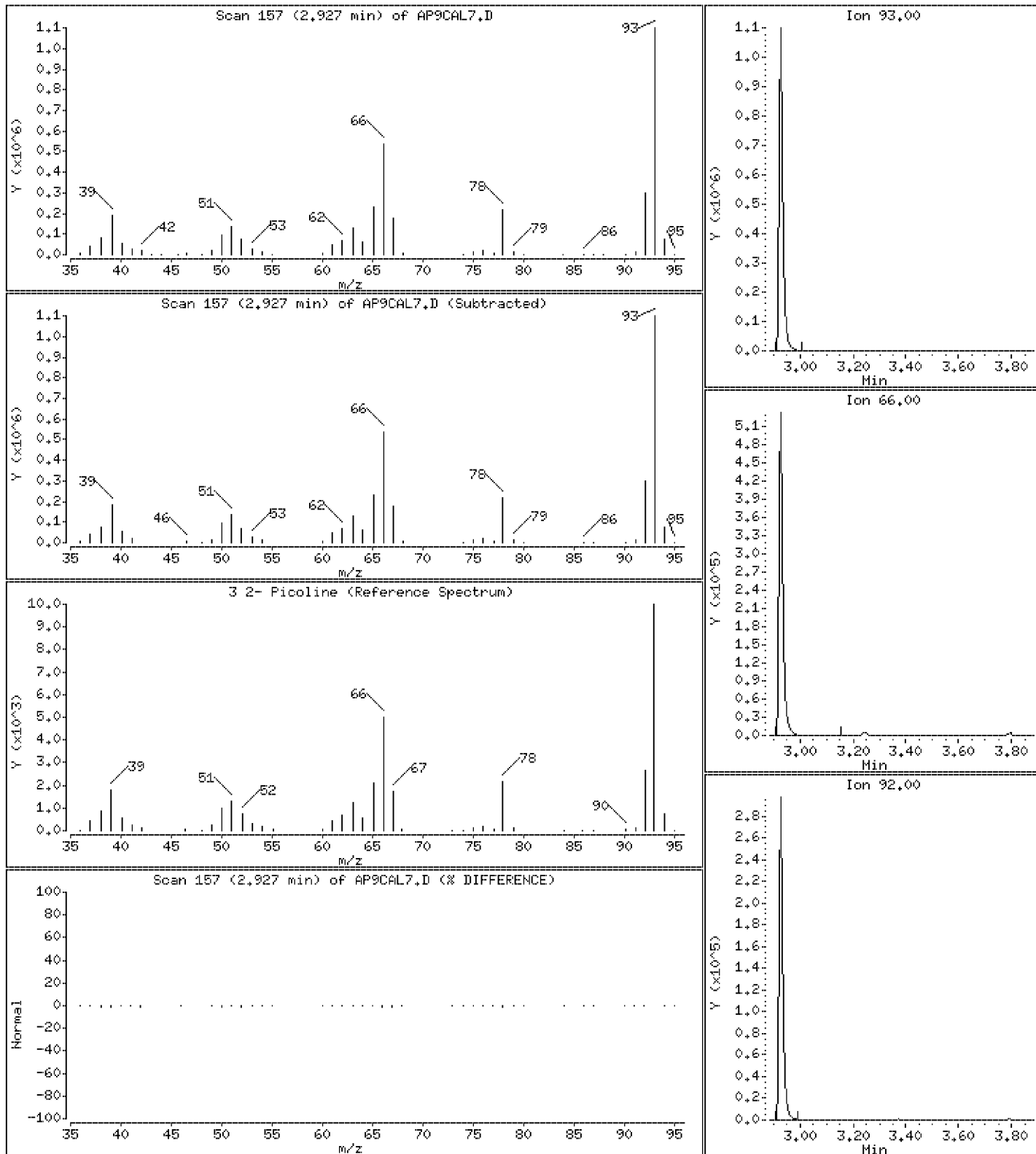
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

3 2- Picoline

Concentration: 106 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

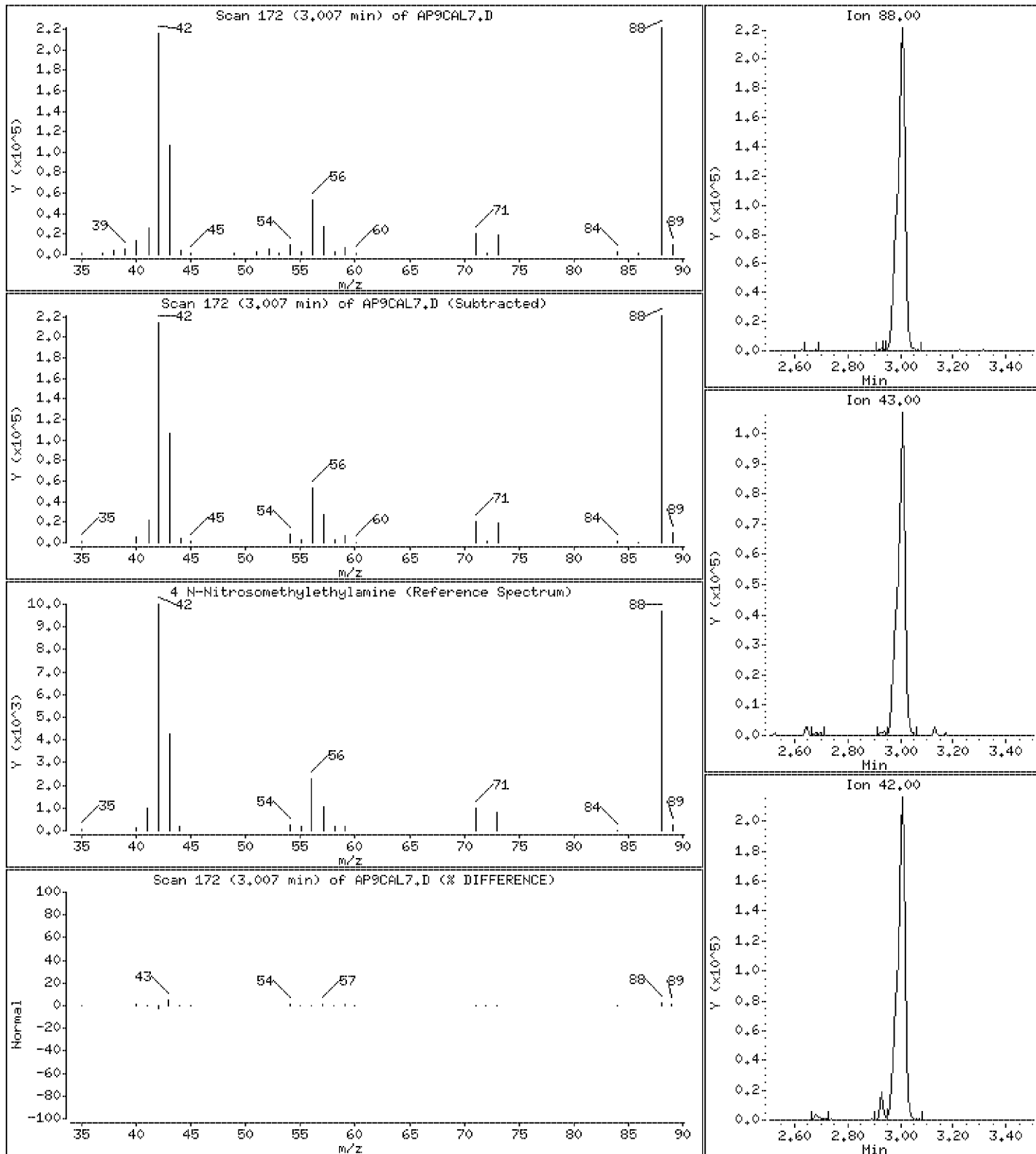
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

4 N-Nitrosomethylethylamine

Concentration: 105 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

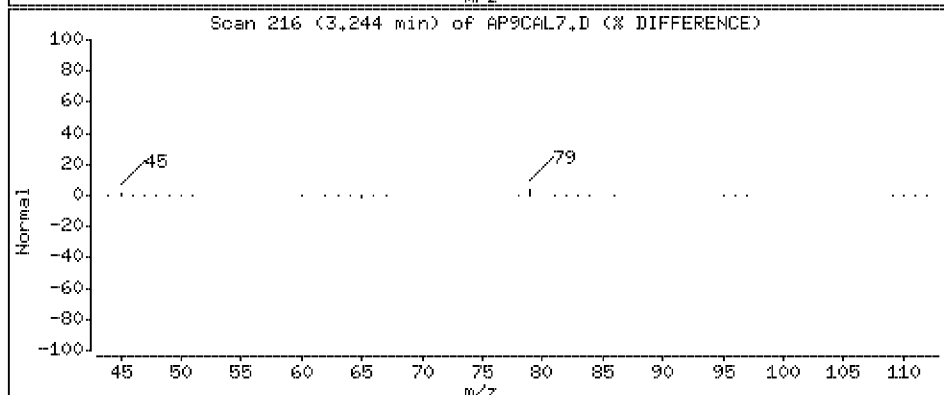
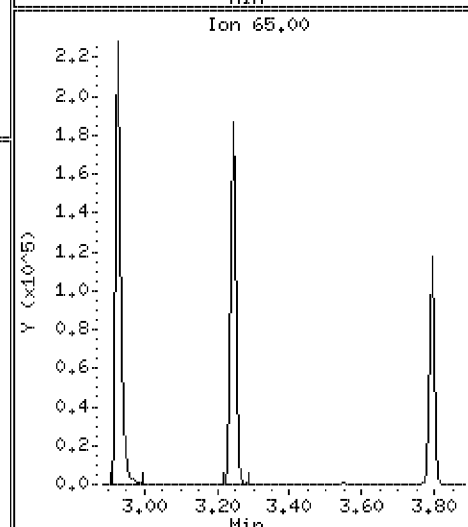
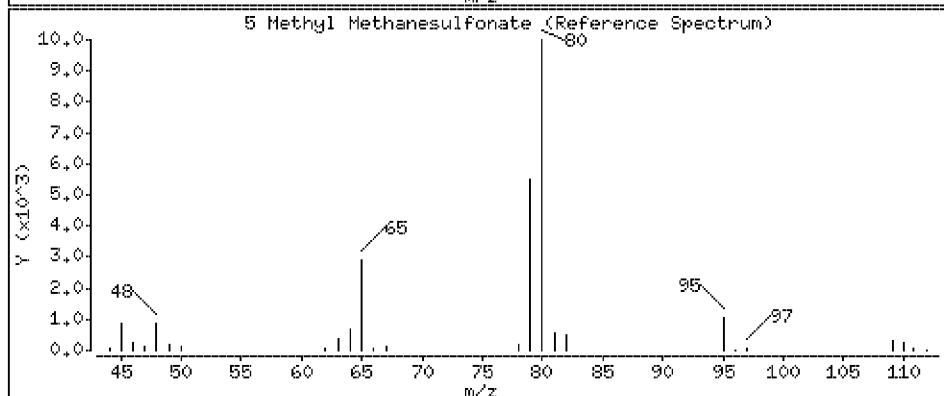
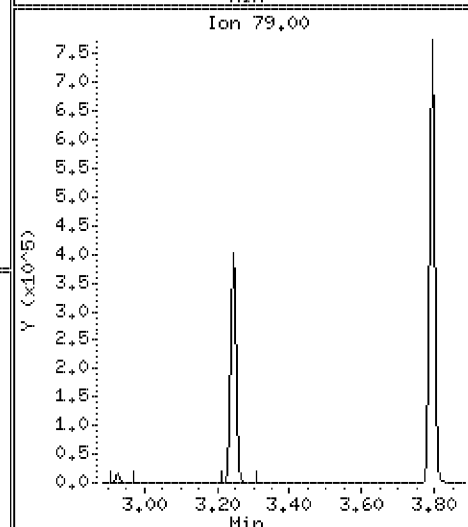
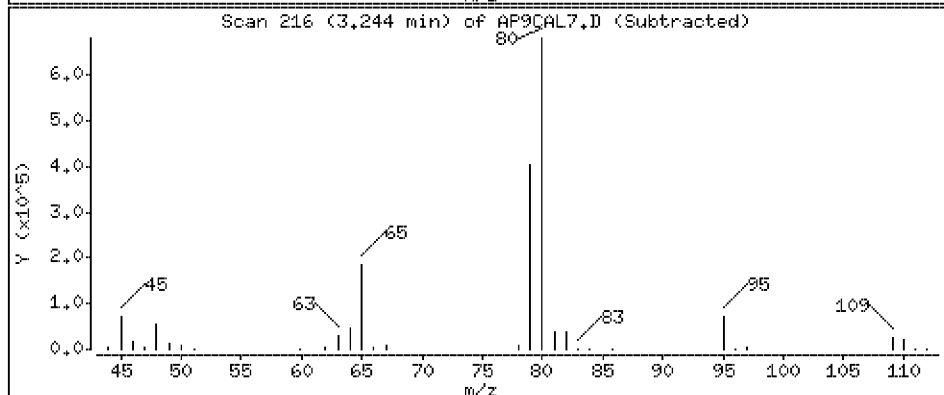
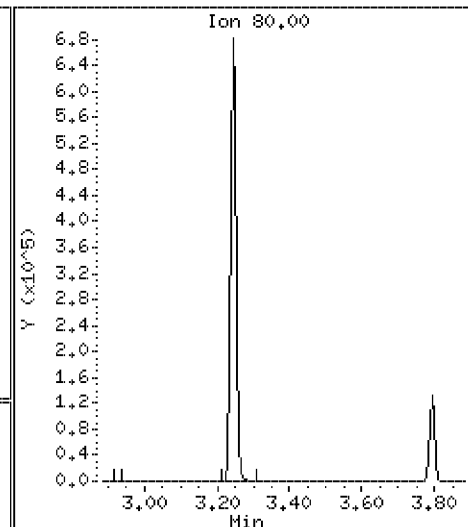
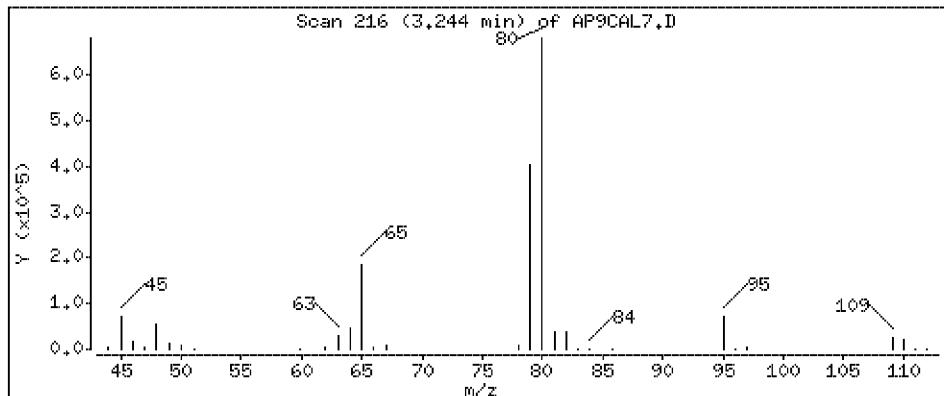
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

5 Methyl Methanesulfonate

Concentration: 102 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

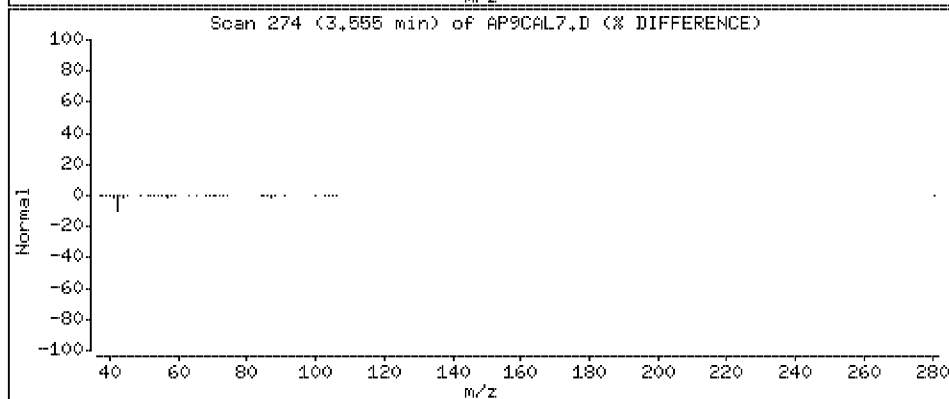
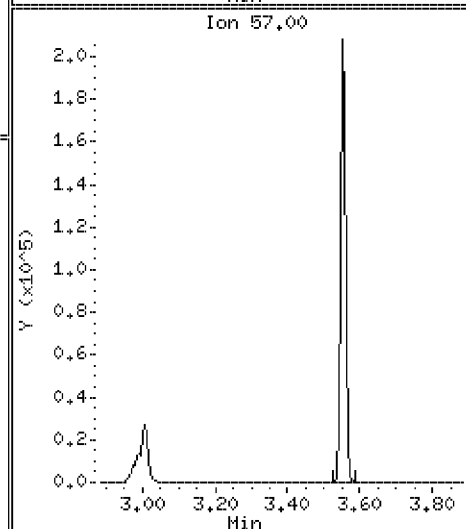
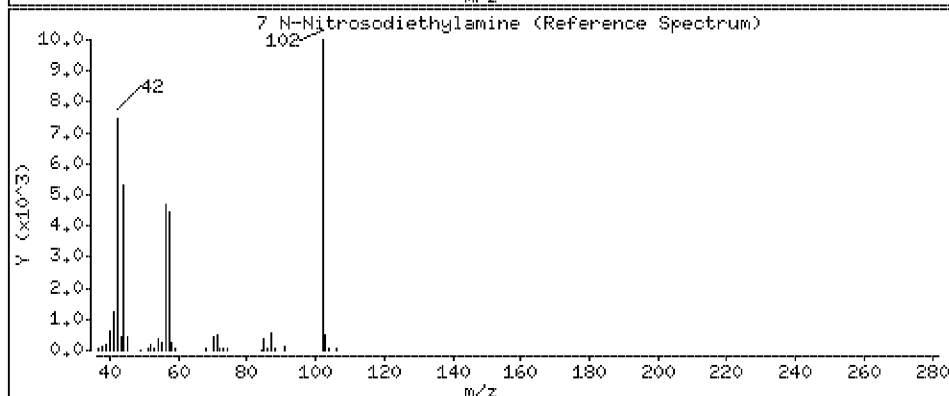
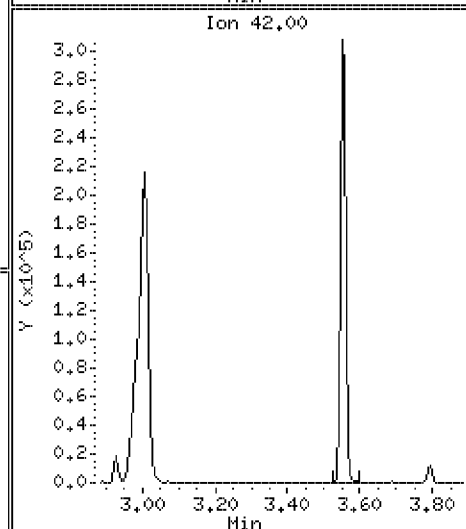
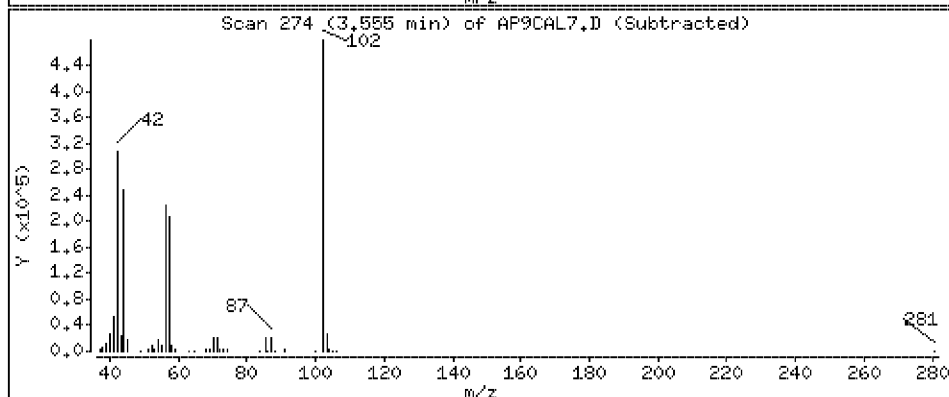
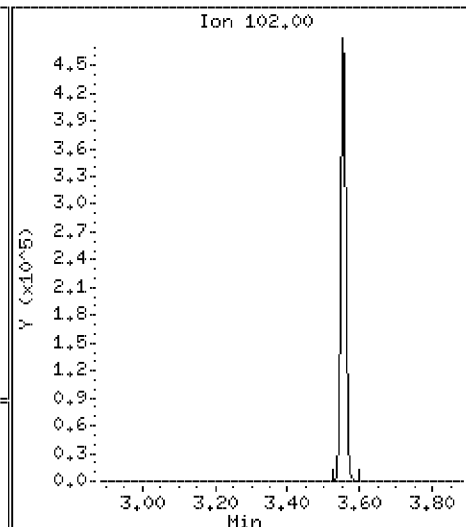
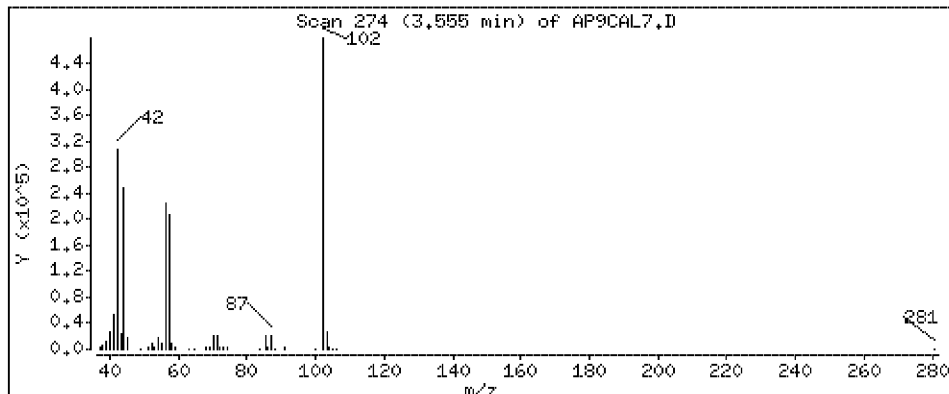
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

7 N-Nitrosodiethylamine

Concentration: 110 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

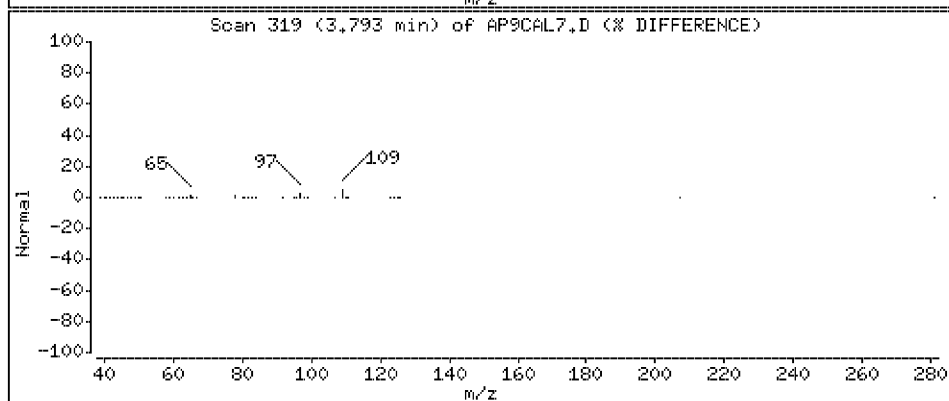
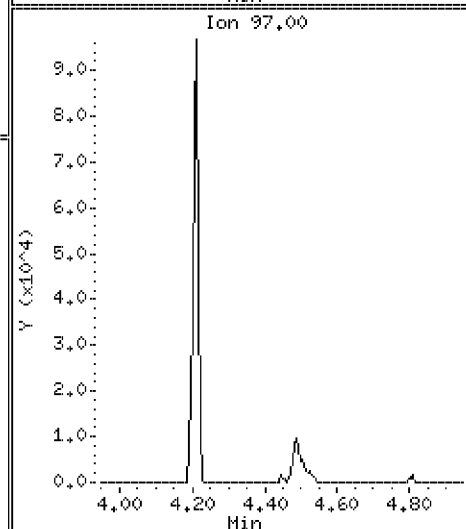
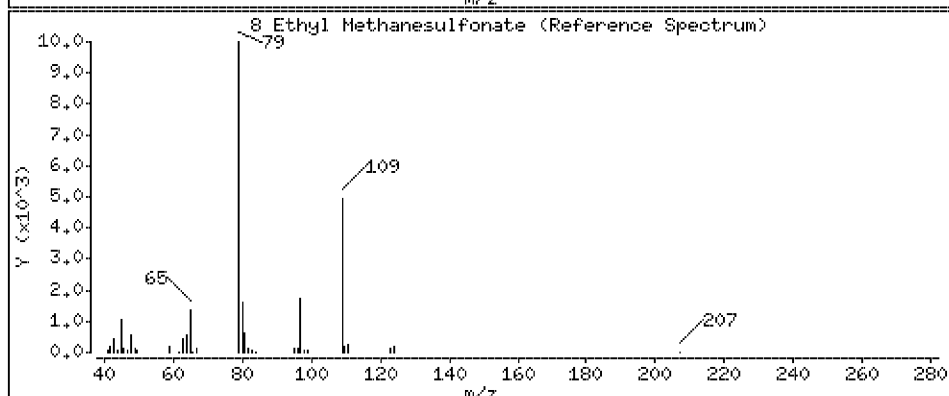
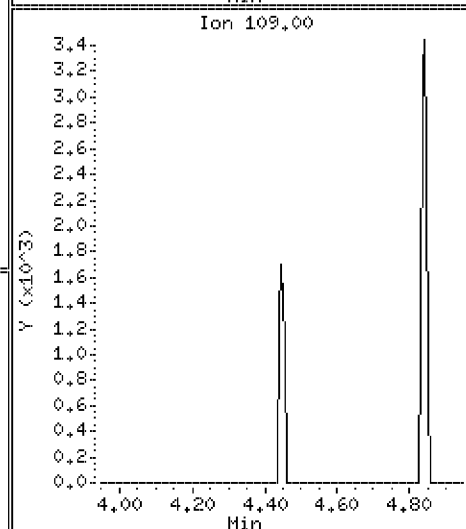
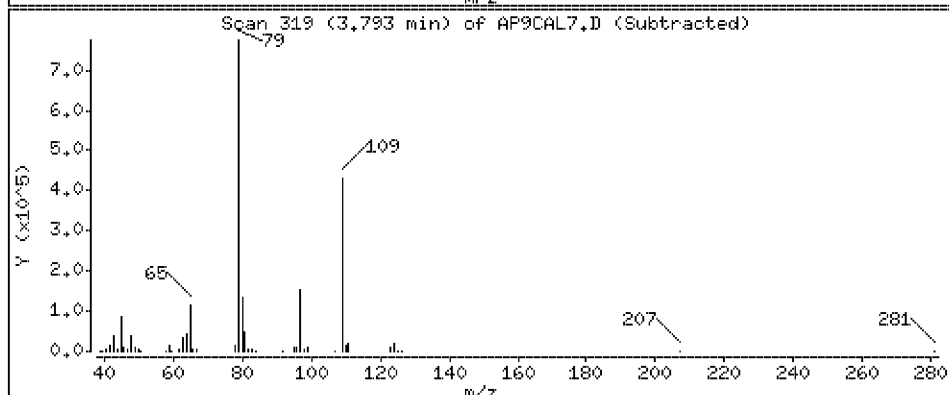
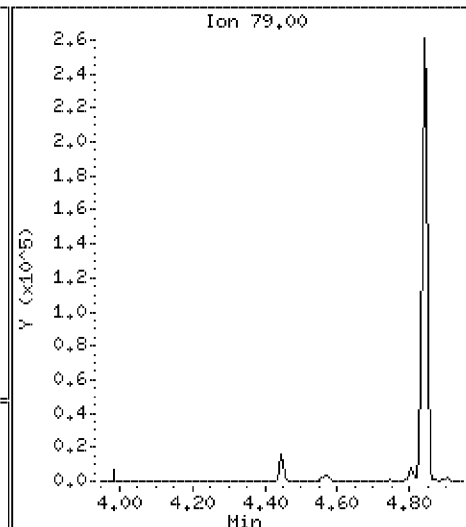
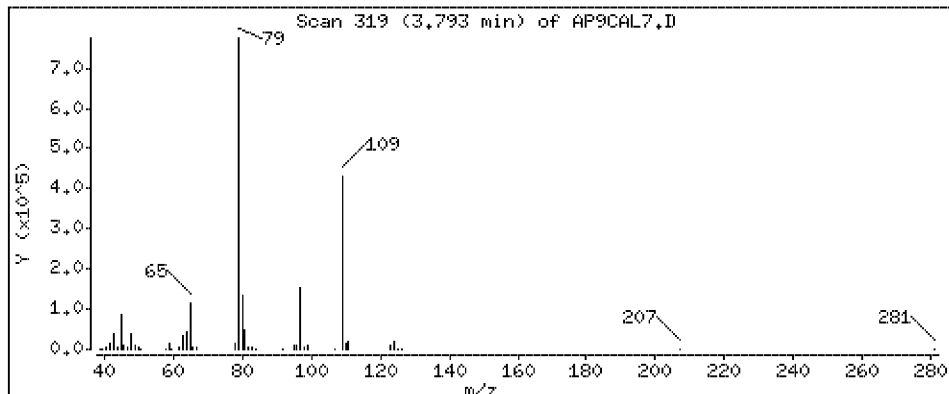
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

8 Ethyl Methanesulfonate

Concentration: 104 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

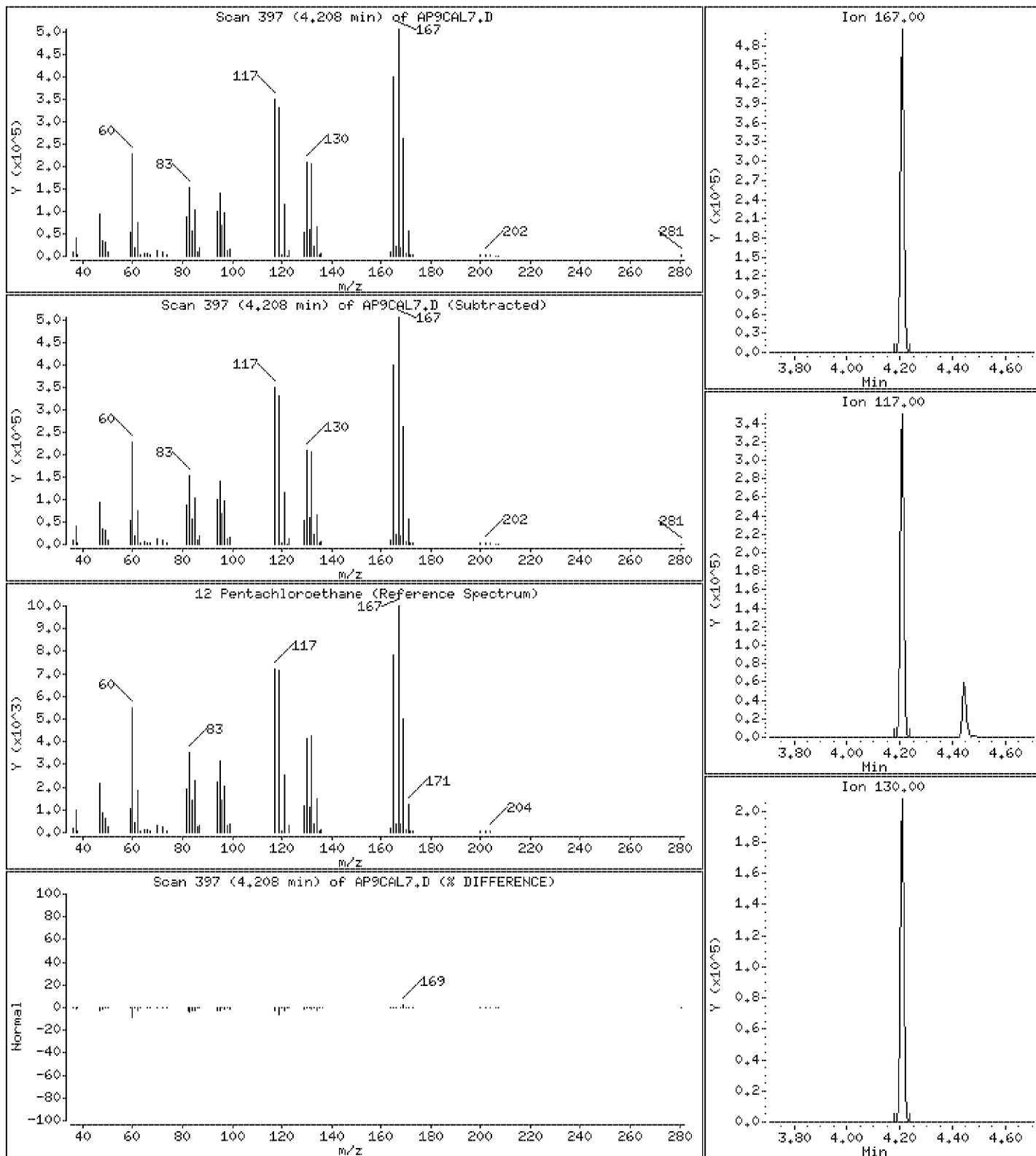
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

12 Pentachloroethane

Concentration: 109 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

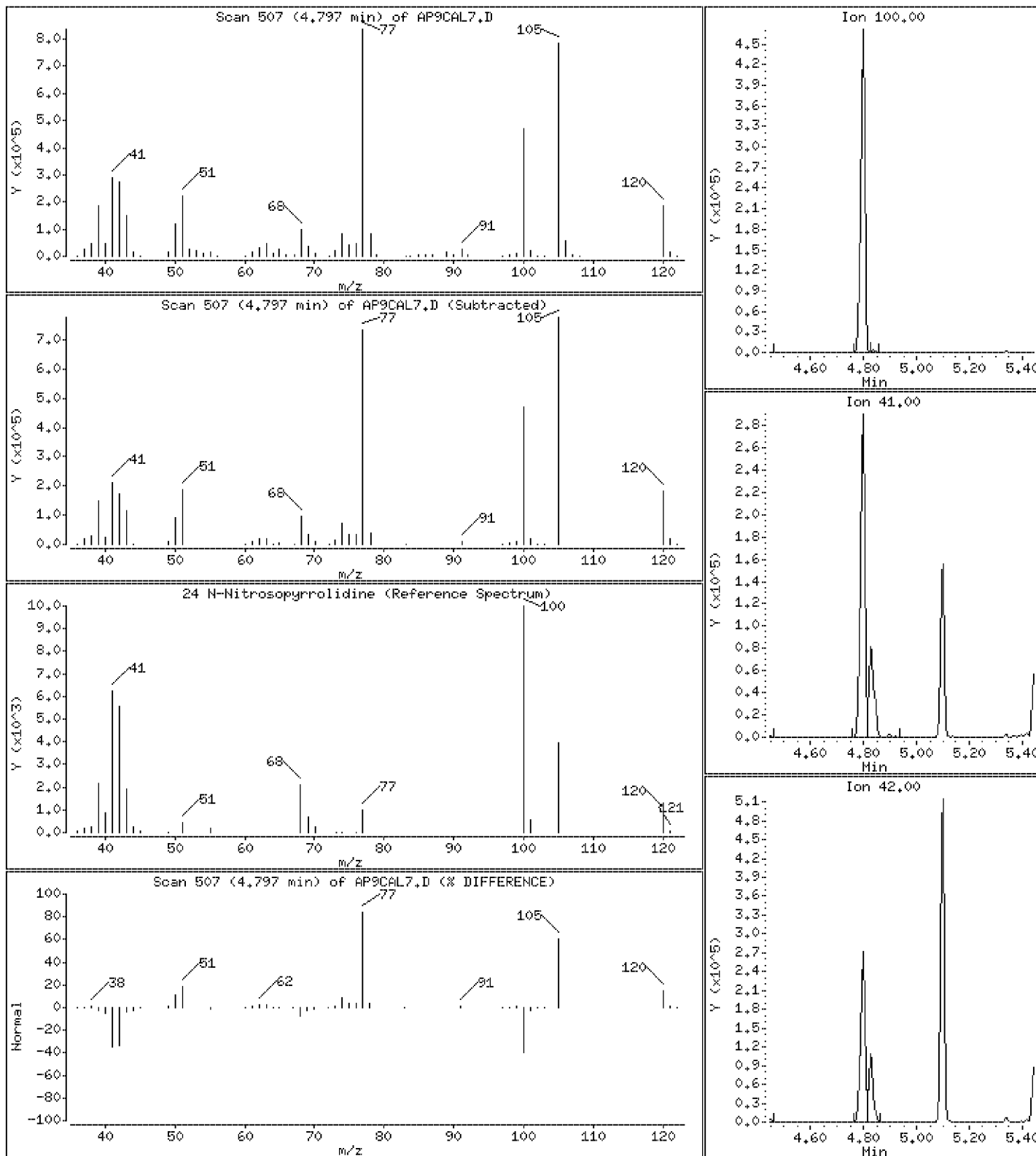
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

24 N-Nitrosopyrrolidine

Concentration: 115 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

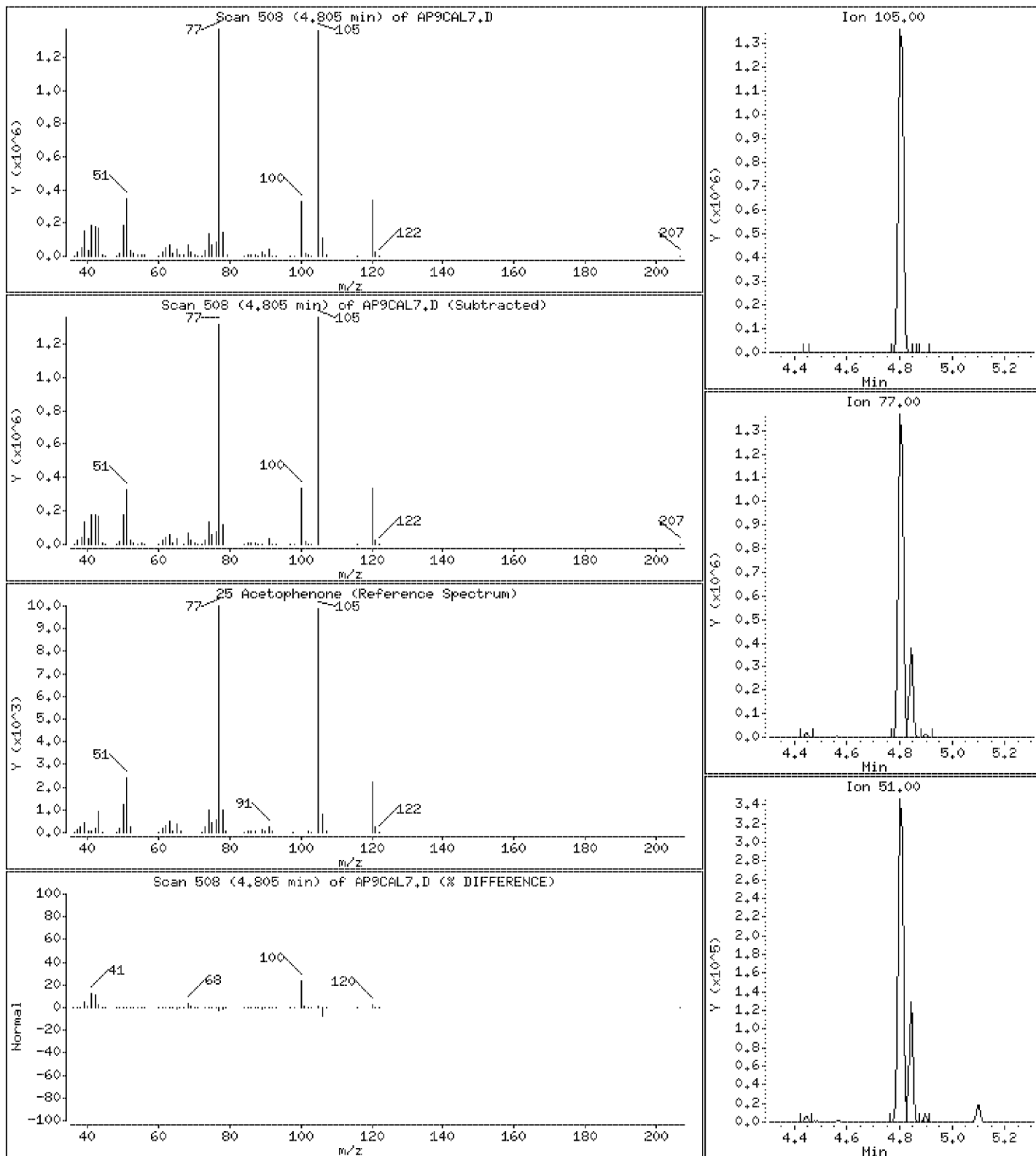
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

25 Acetophenone

Concentration: 108 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

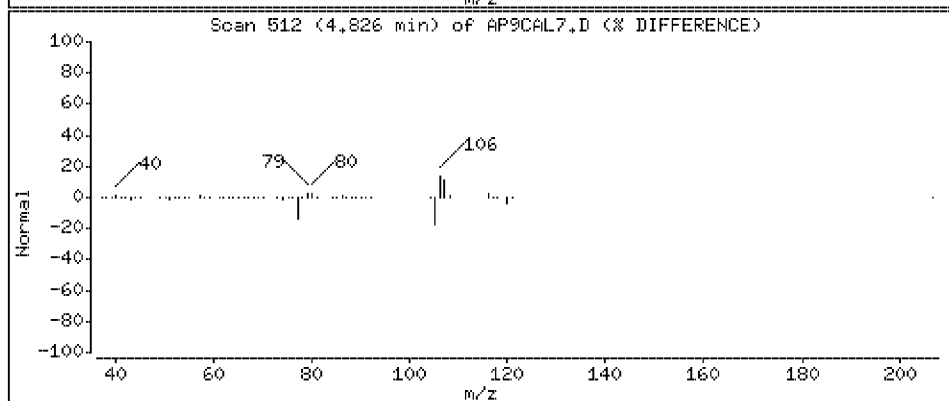
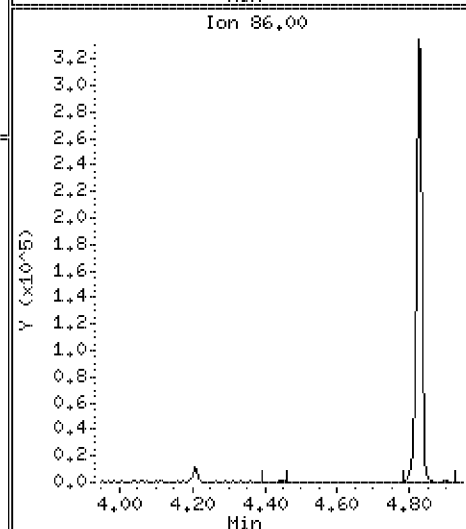
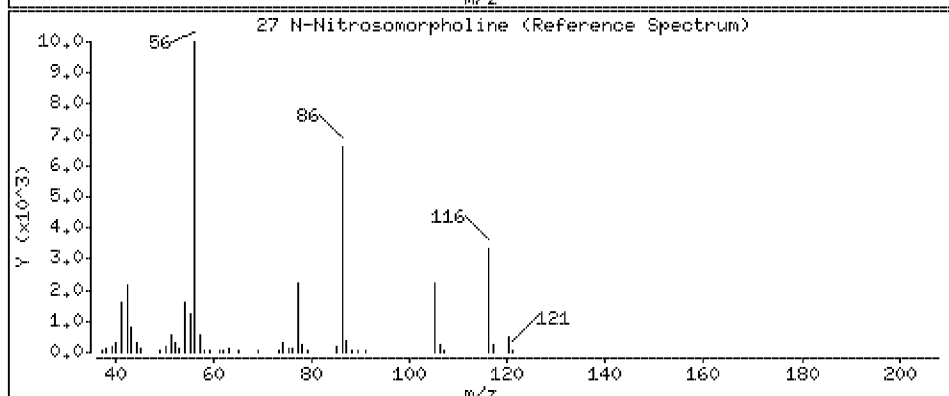
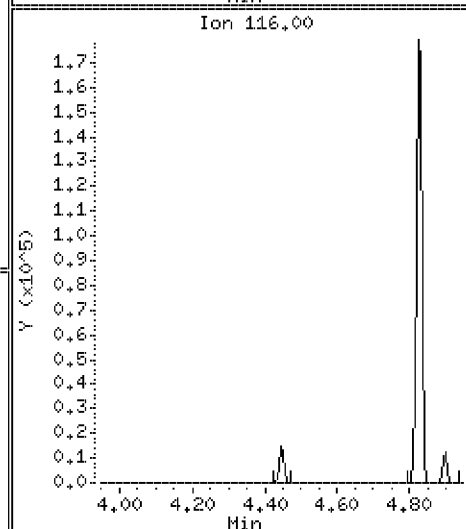
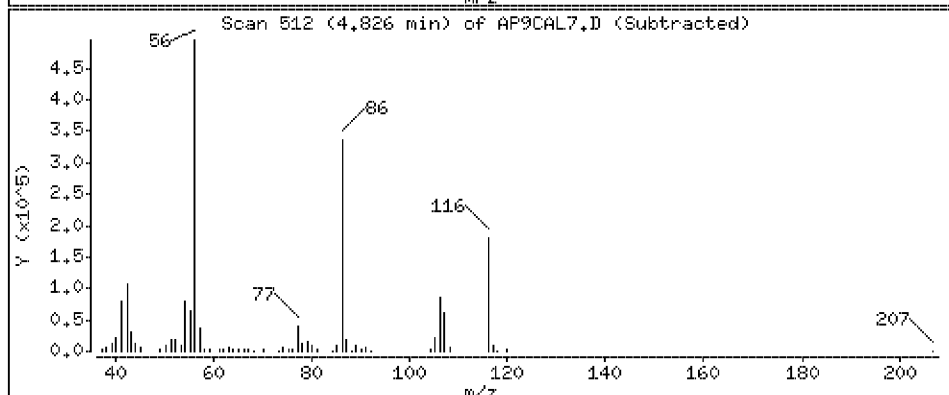
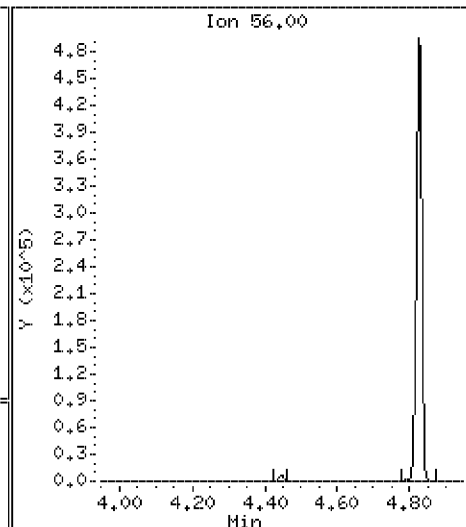
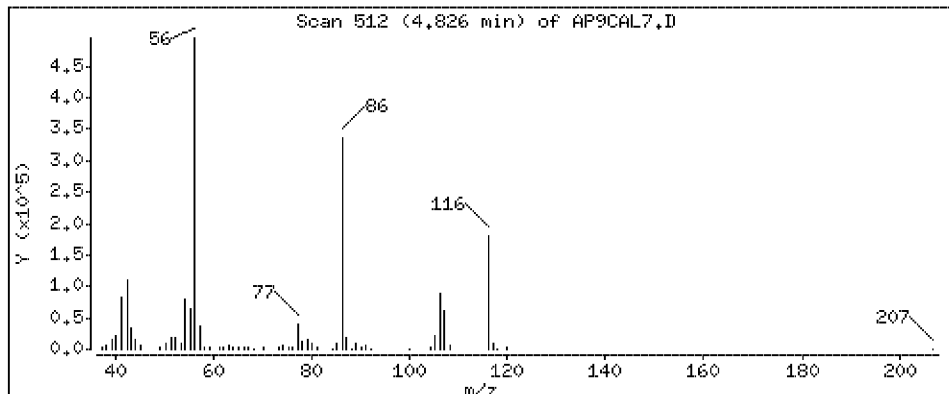
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

27 N-Nitrosomorpholine

Concentration: 112 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

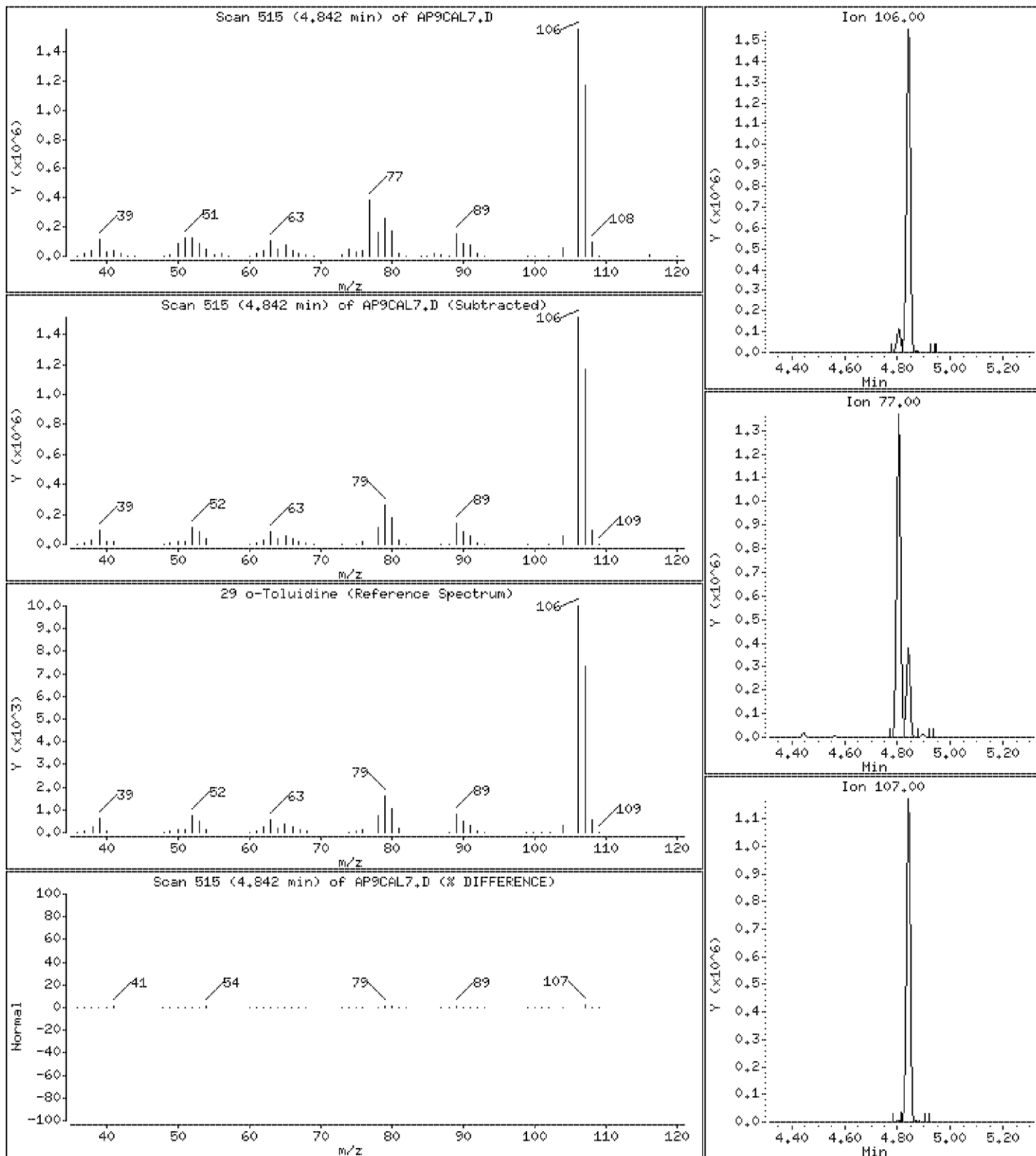
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

29 o-Toluidine

Concentration: 111 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

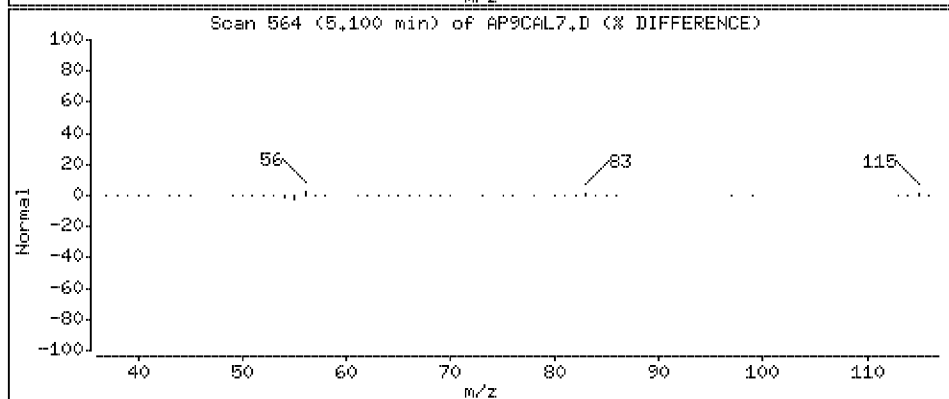
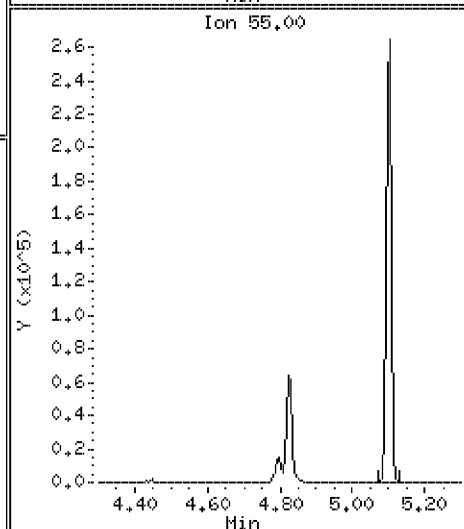
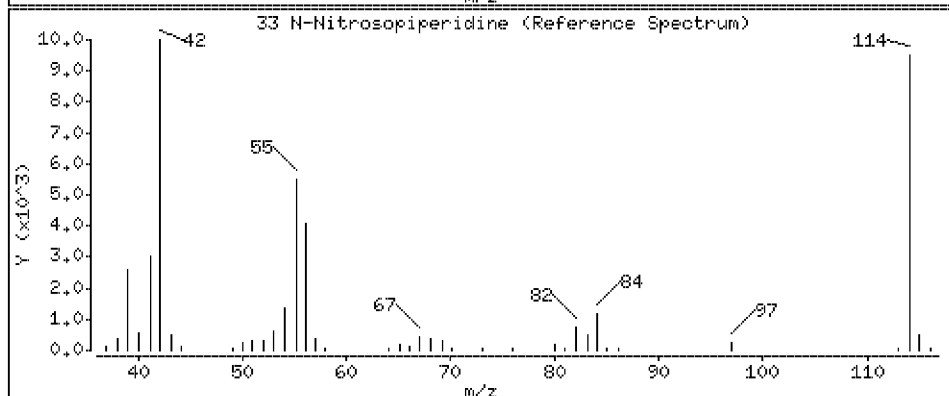
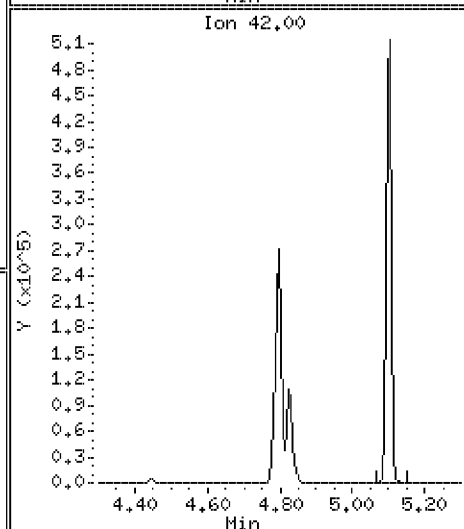
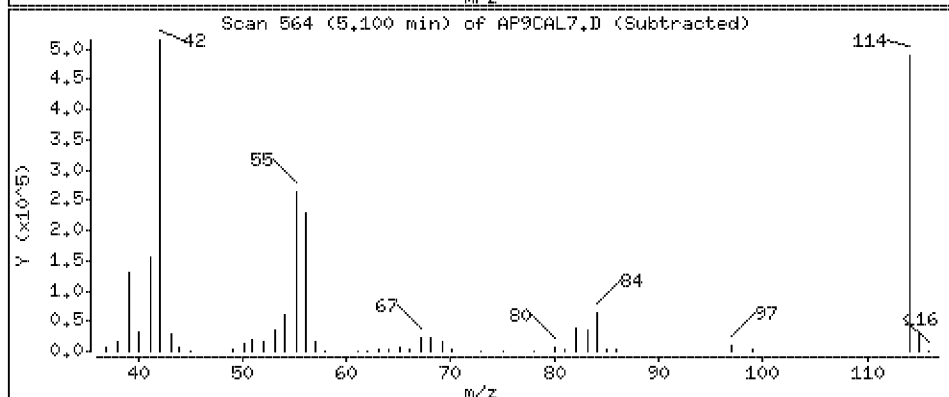
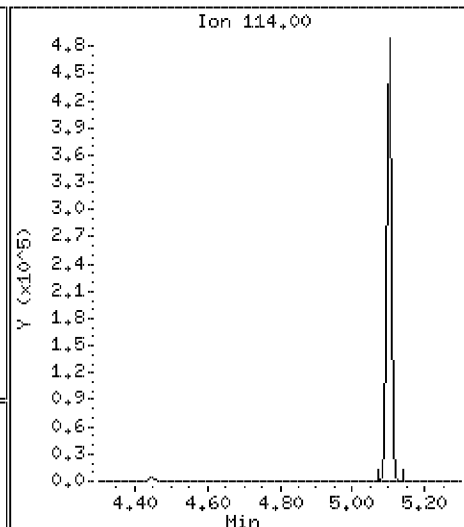
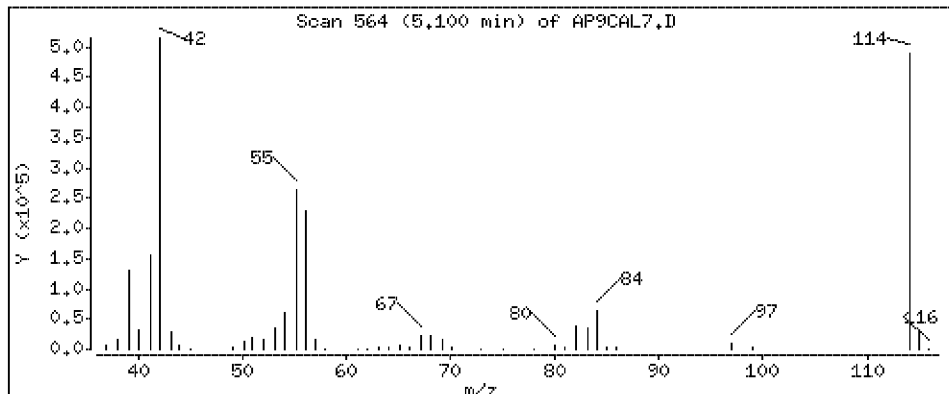
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

33 N-Nitrosopiperidine

Concentration: 109 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

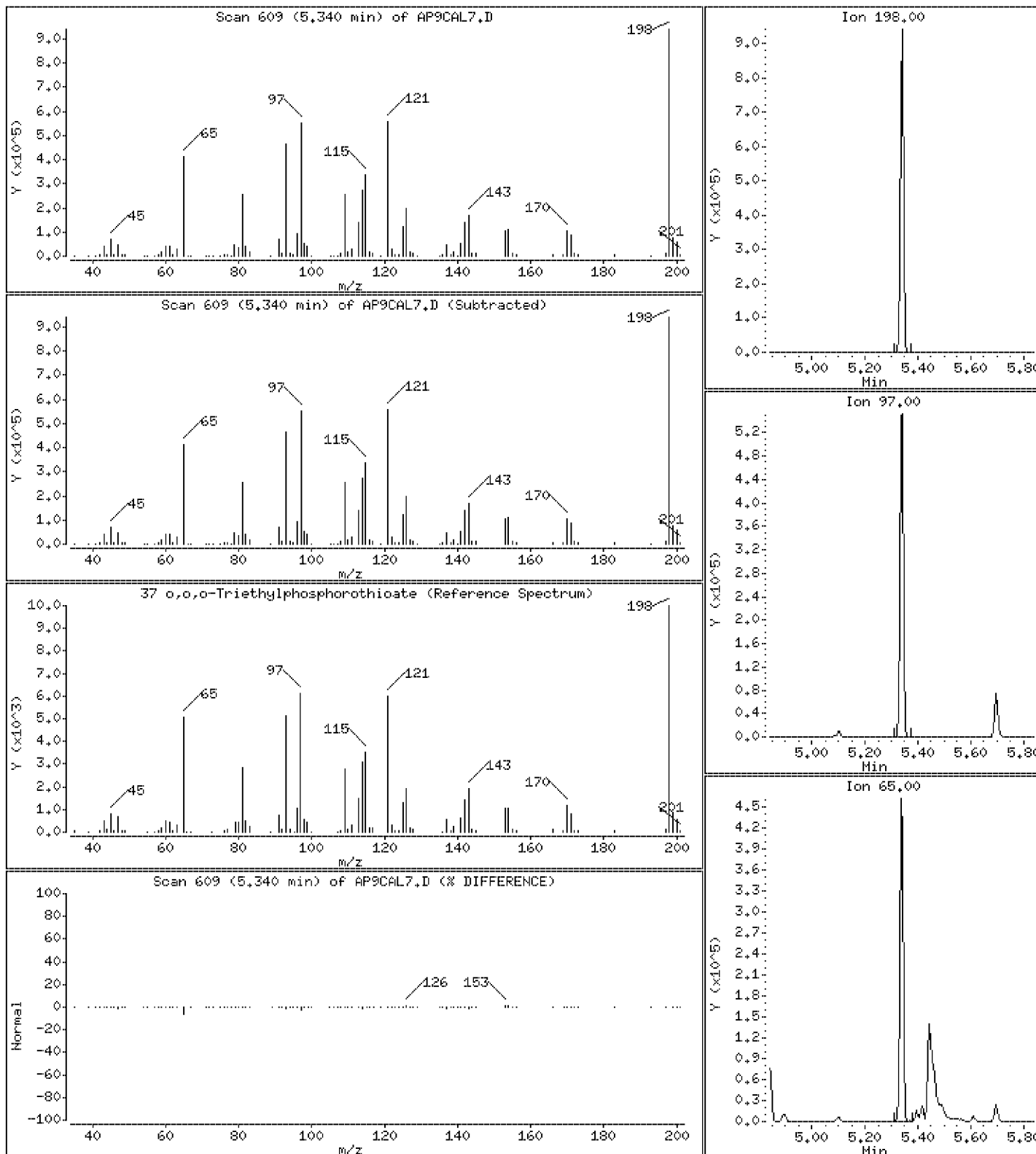
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

37 o,o,o-Triethylphosphorothioate

Concentration: 114 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

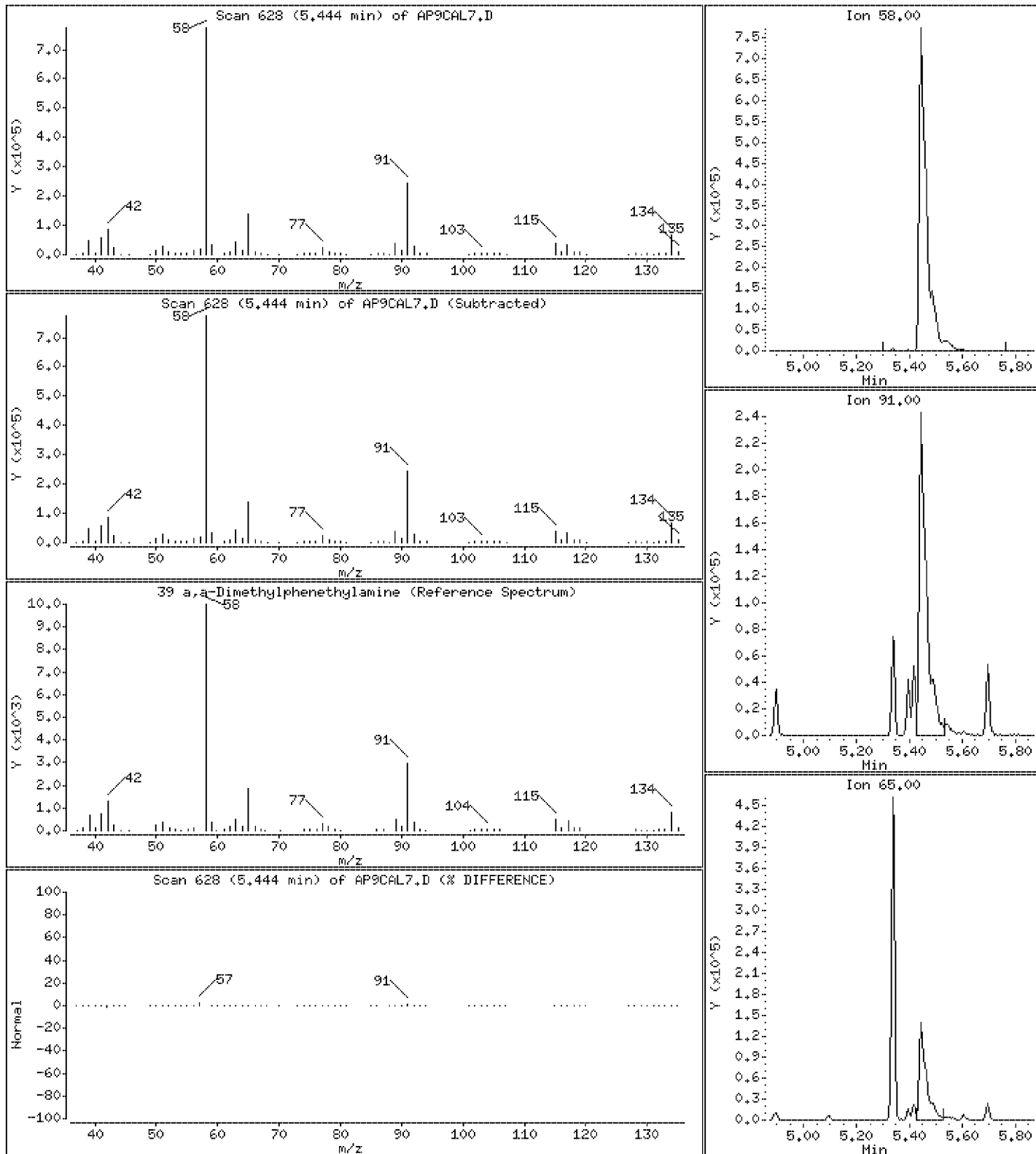
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

39 a,a-Dimethylphenethylamine

Concentration: 108 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

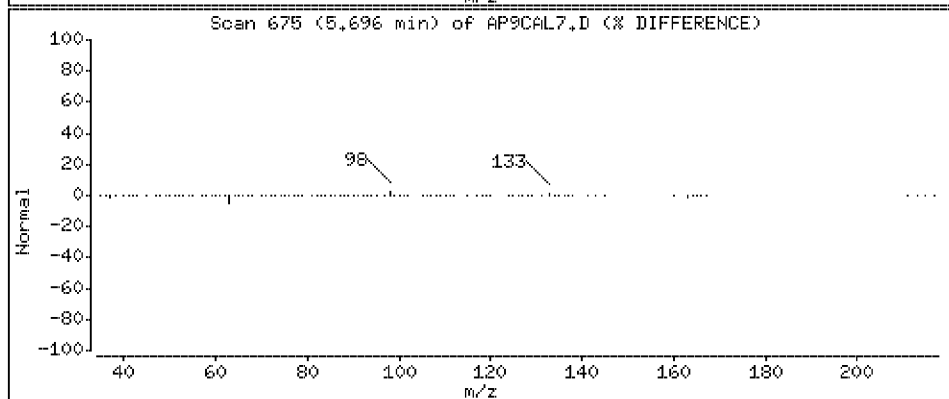
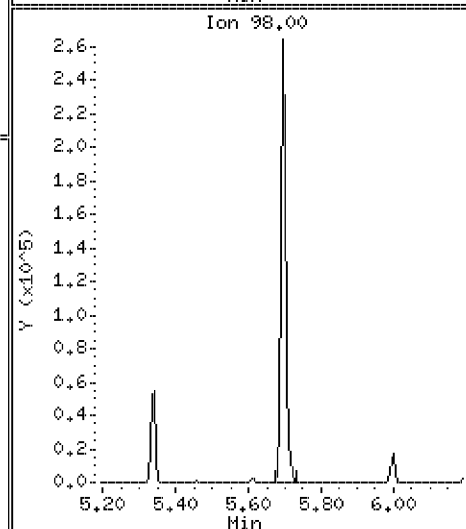
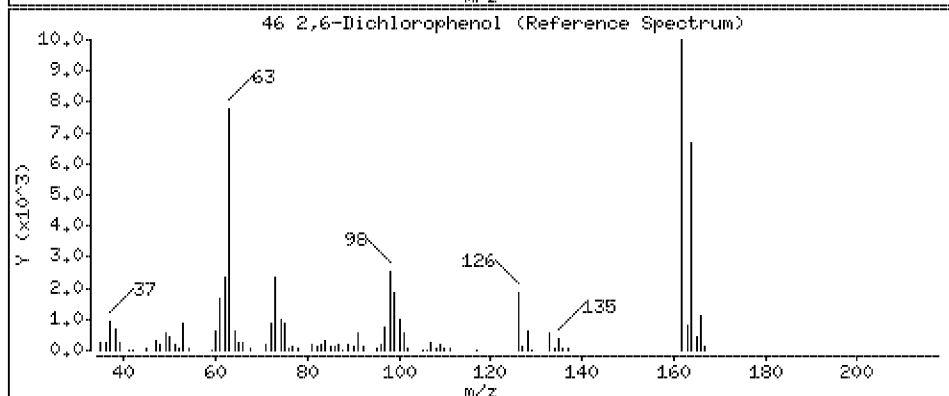
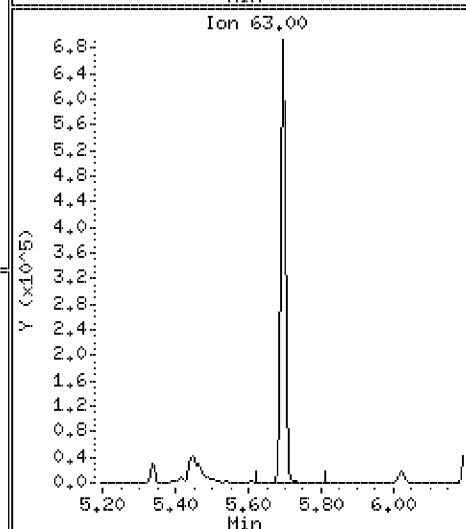
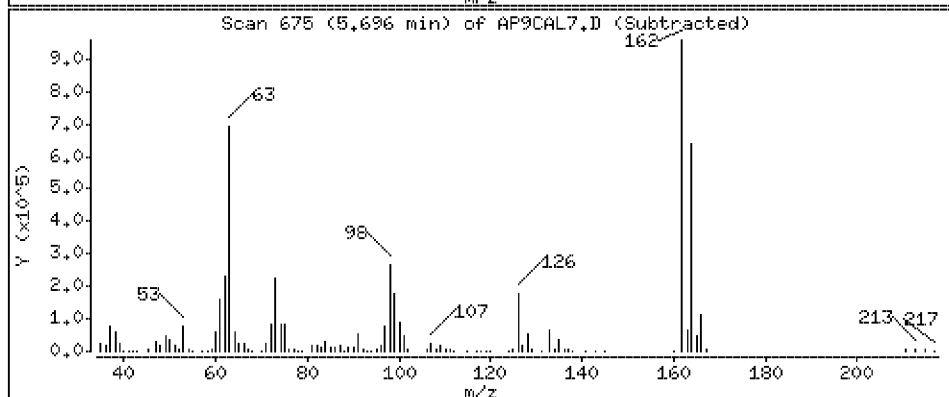
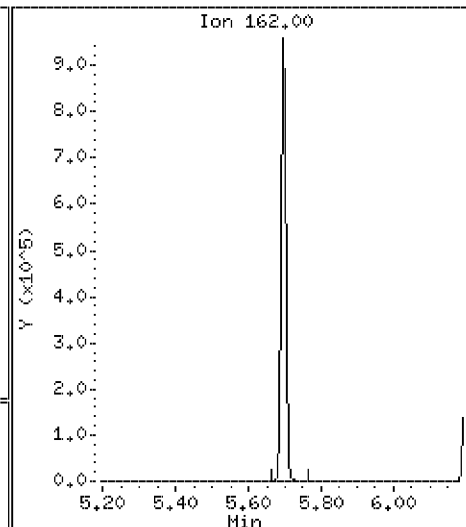
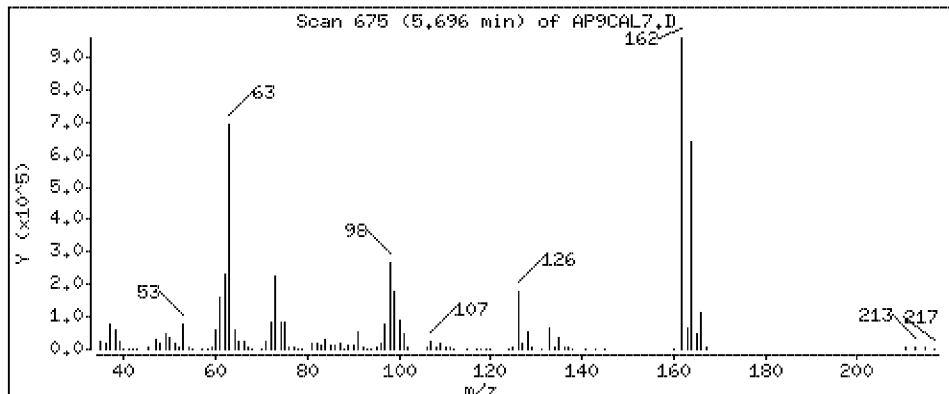
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

46 2,6-Dichlorophenol

Concentration: 112 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

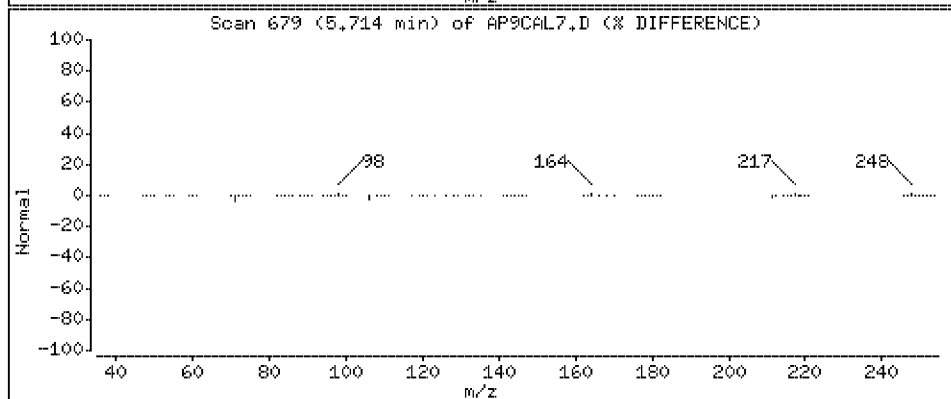
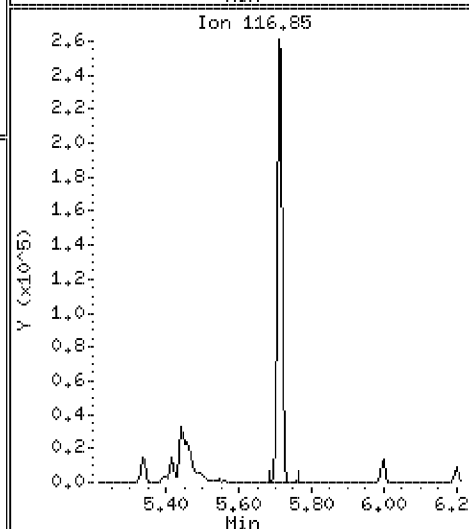
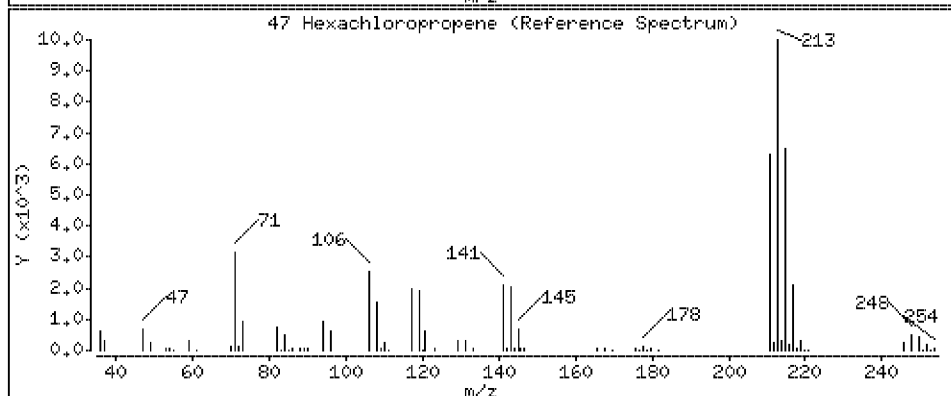
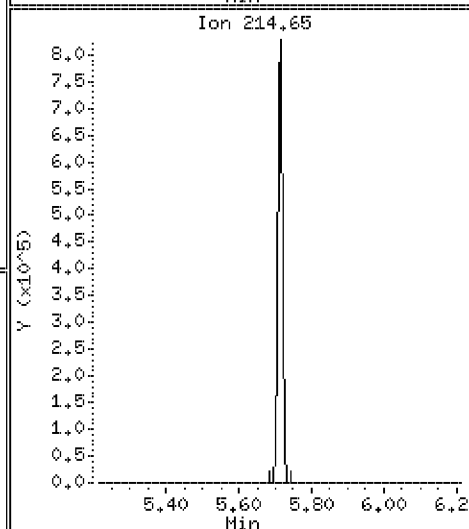
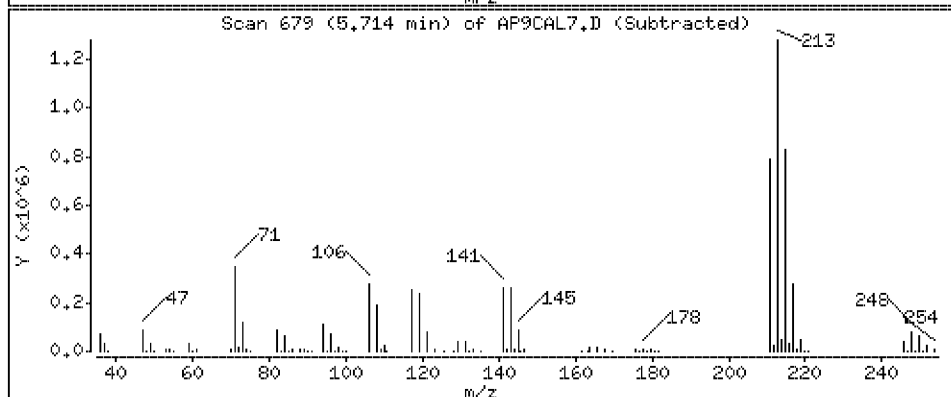
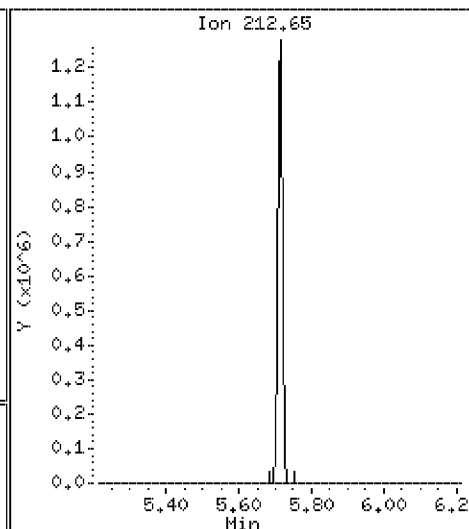
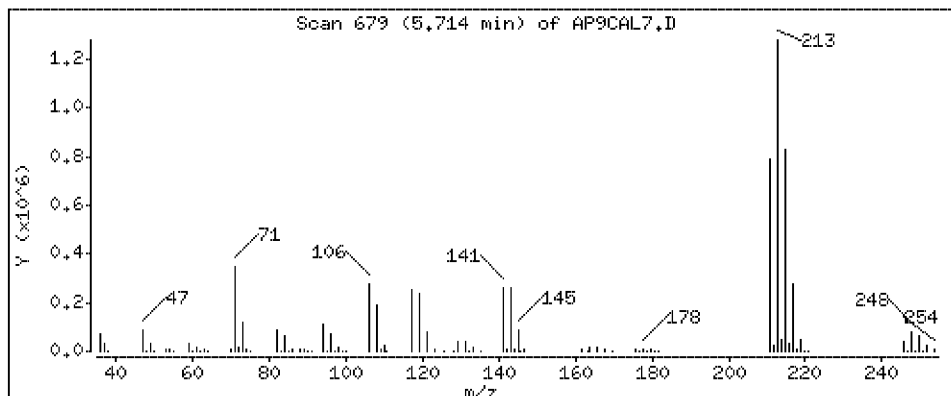
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

47 Hexachloropropene

Concentration: 110 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

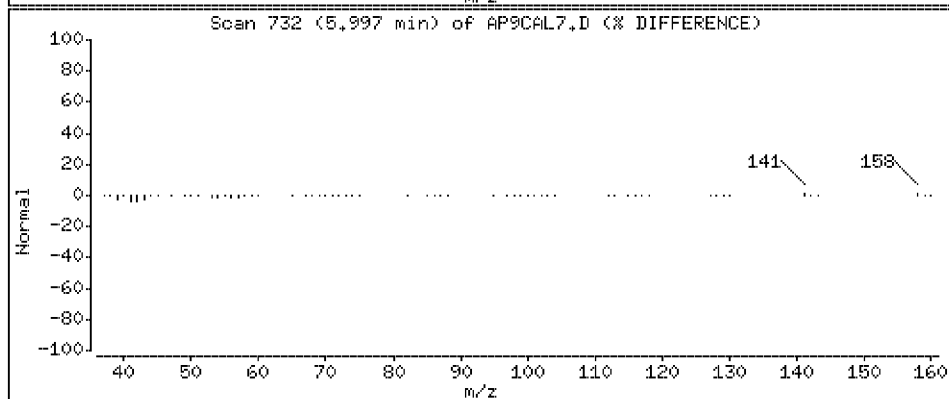
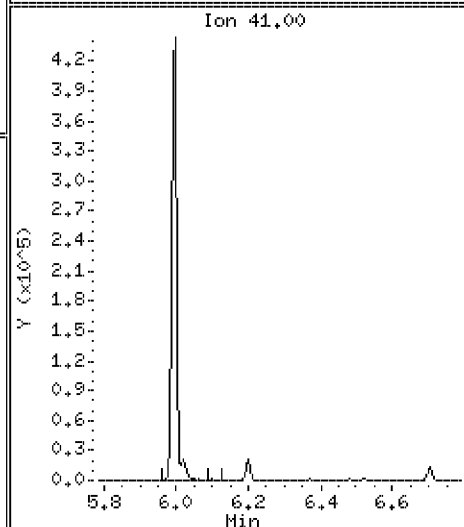
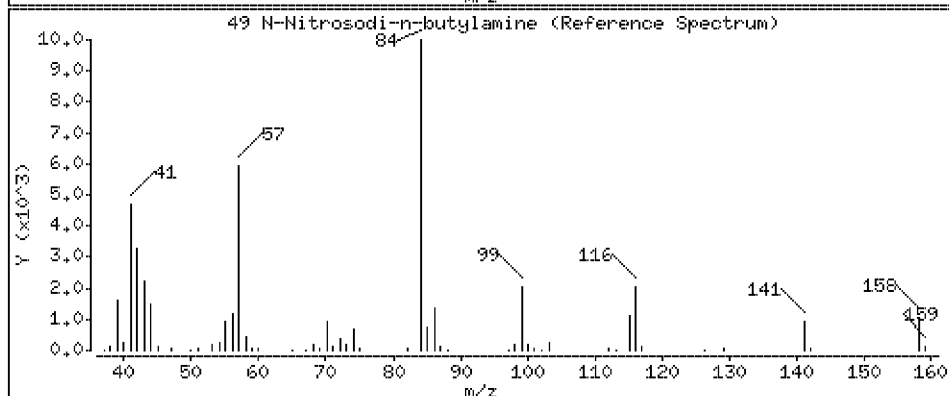
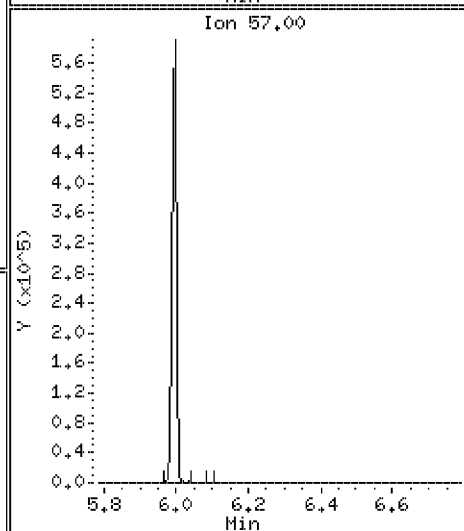
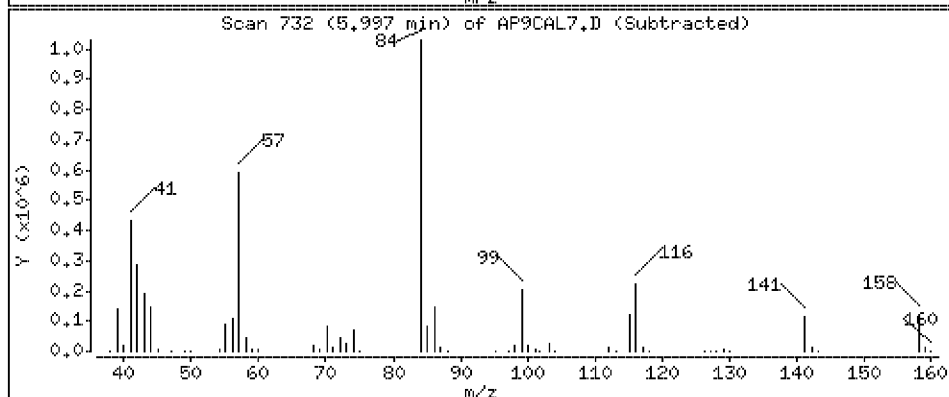
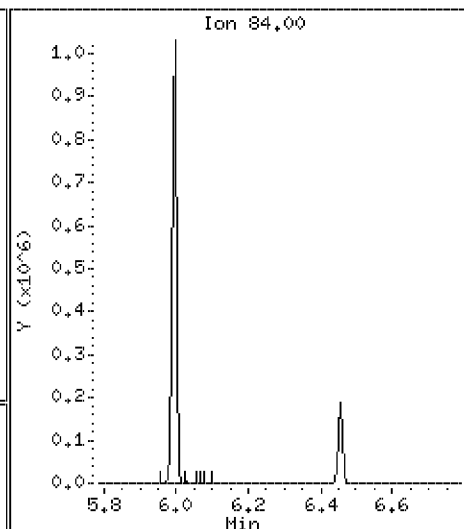
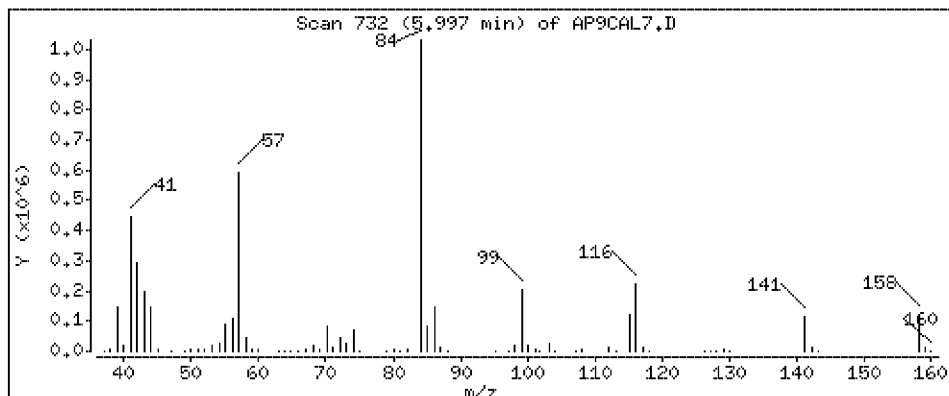
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

49 N-Nitrosodi-n-butylamine

Concentration: 113 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

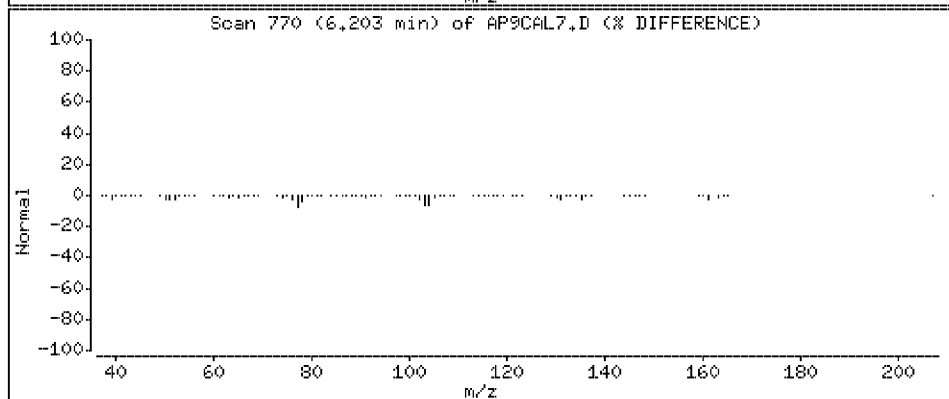
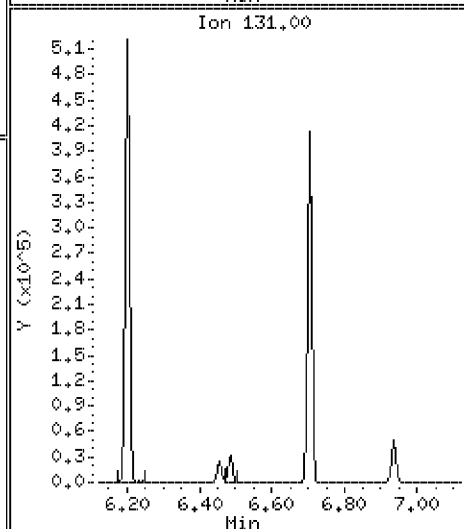
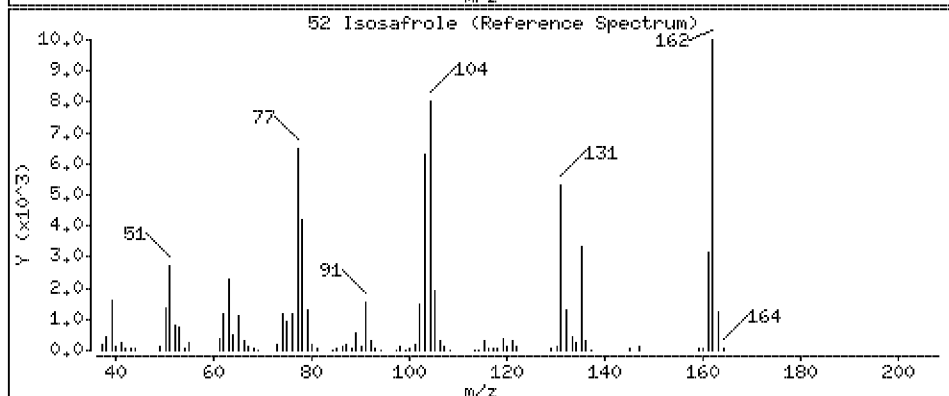
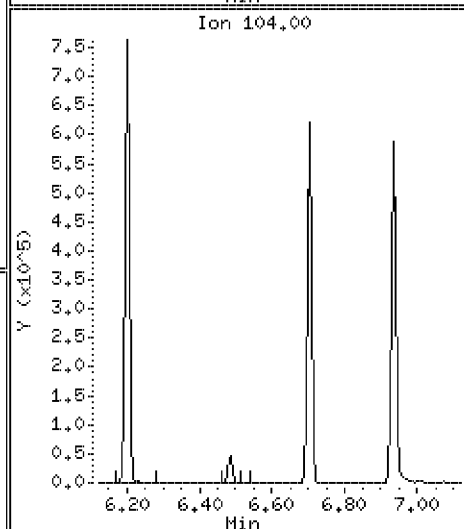
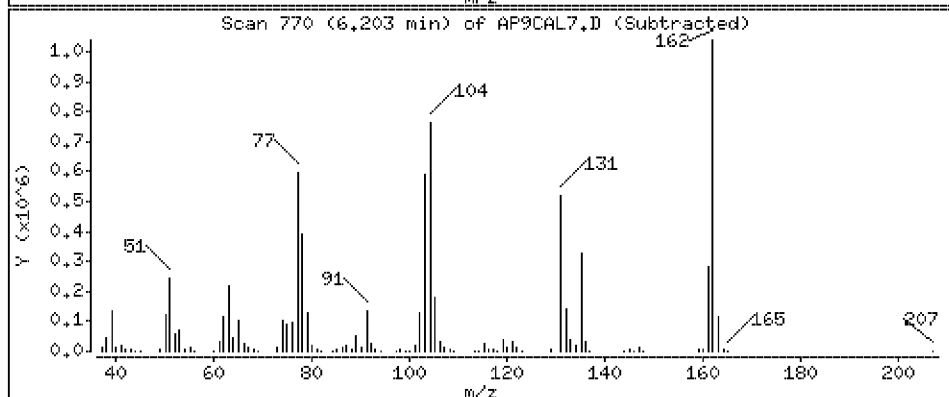
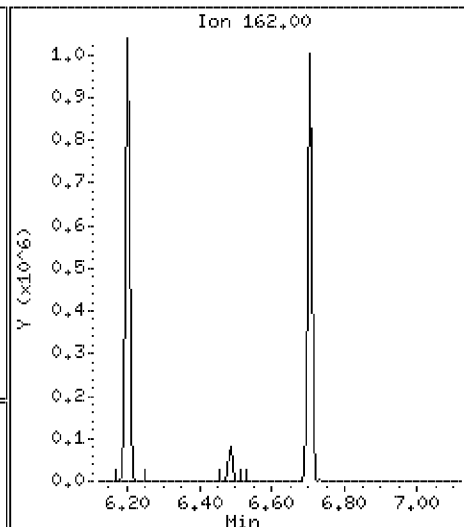
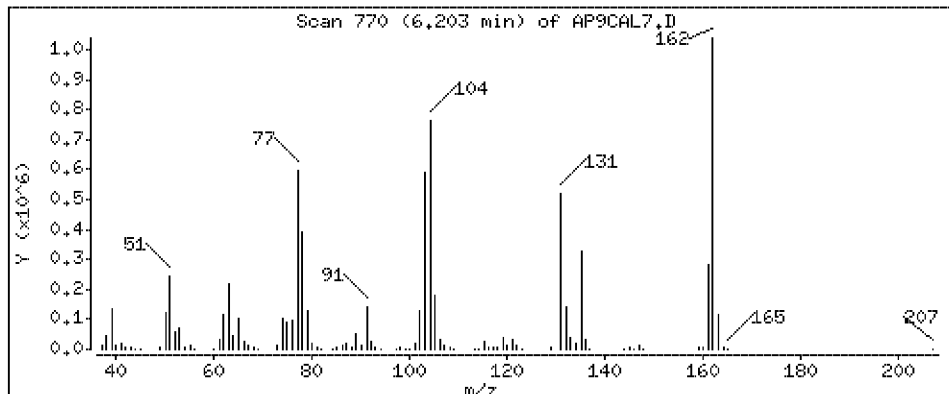
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

52 Isosafrole

Concentration: 112 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

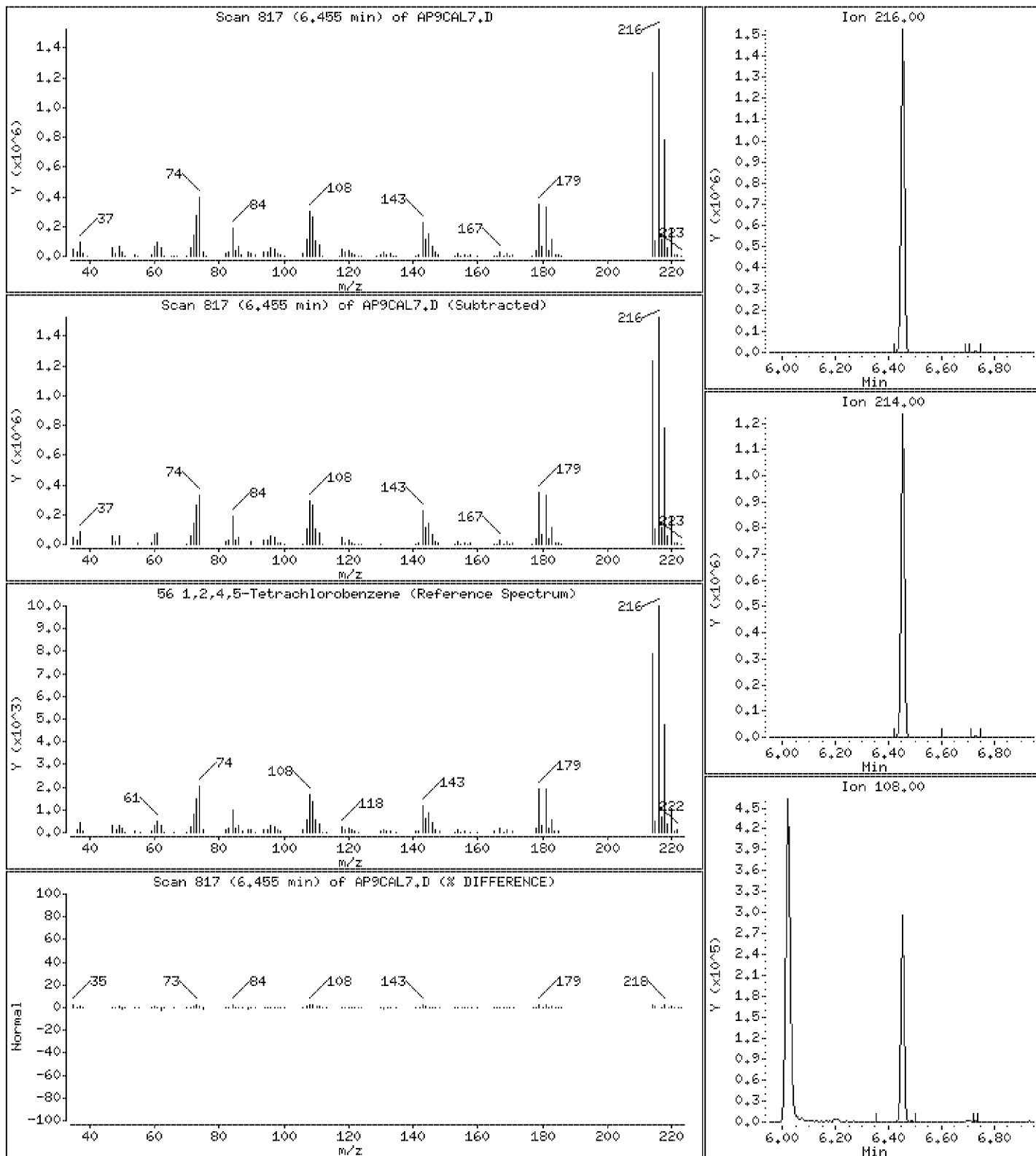
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

56 1,2,4,5-Tetrachlorobenzene

Concentration: 108 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

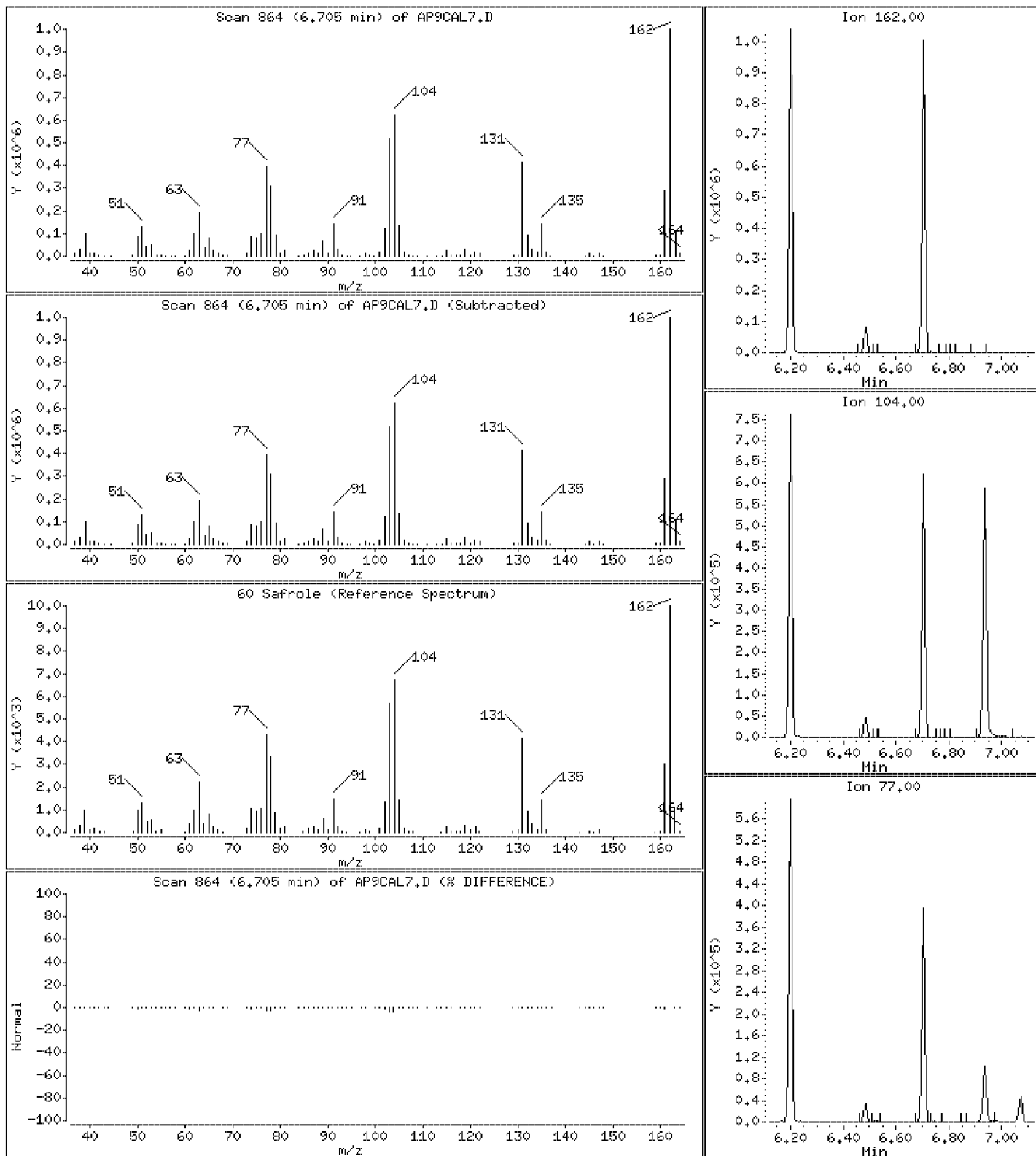
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

60 Safrole

Concentration: 114 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

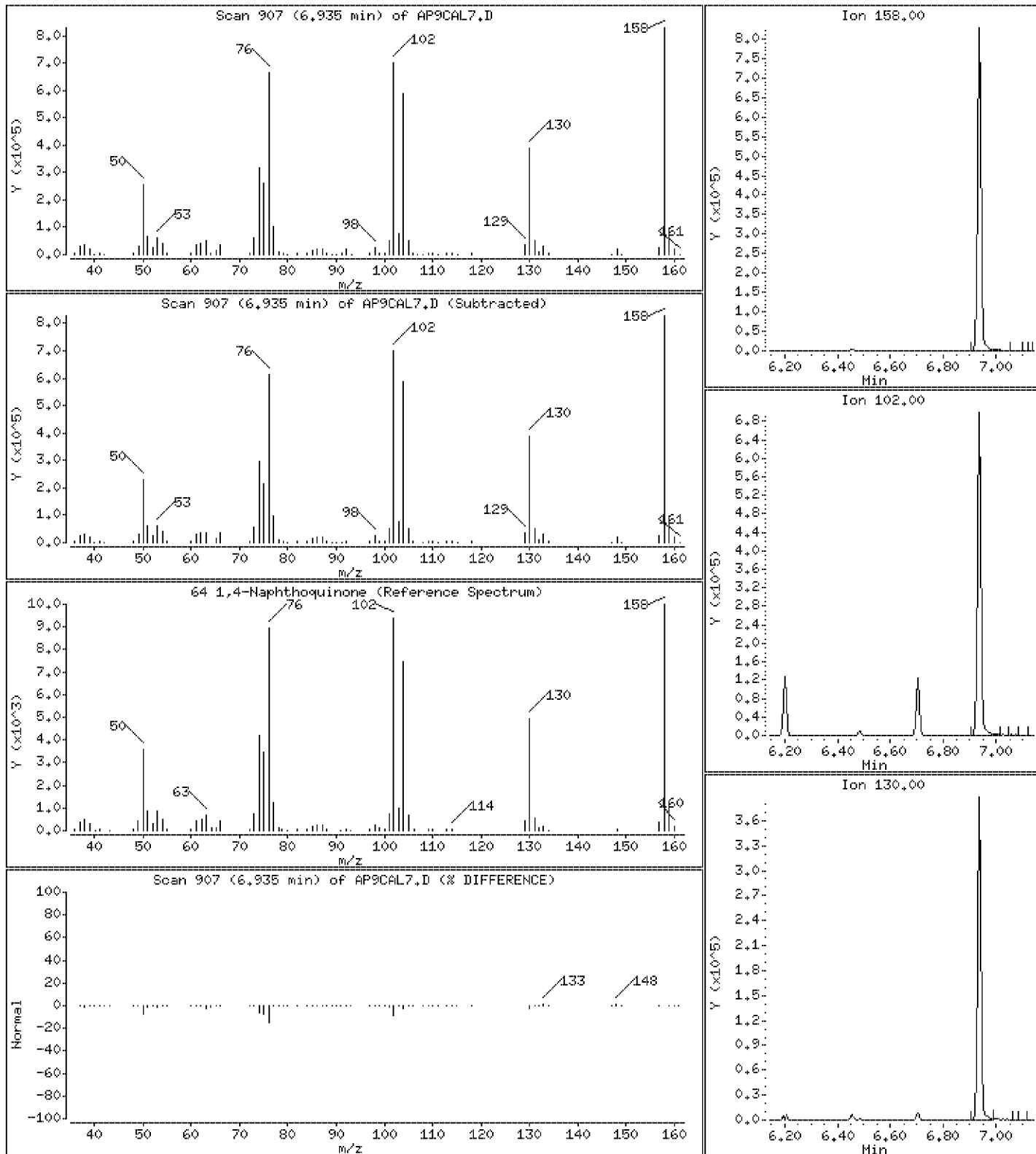
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

64 1,4-Naphthoquinone

Concentration: 111 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

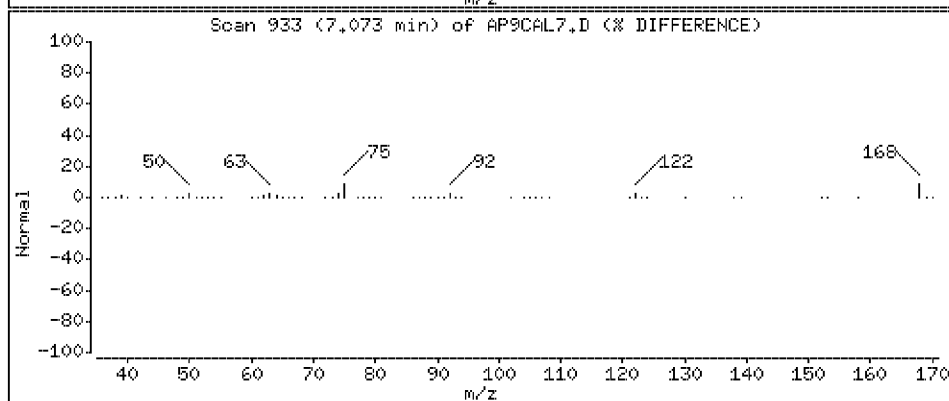
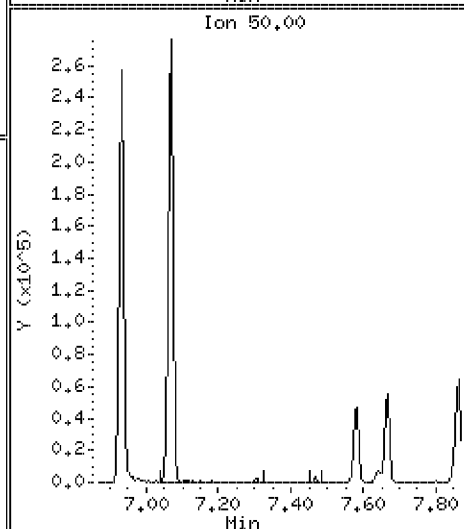
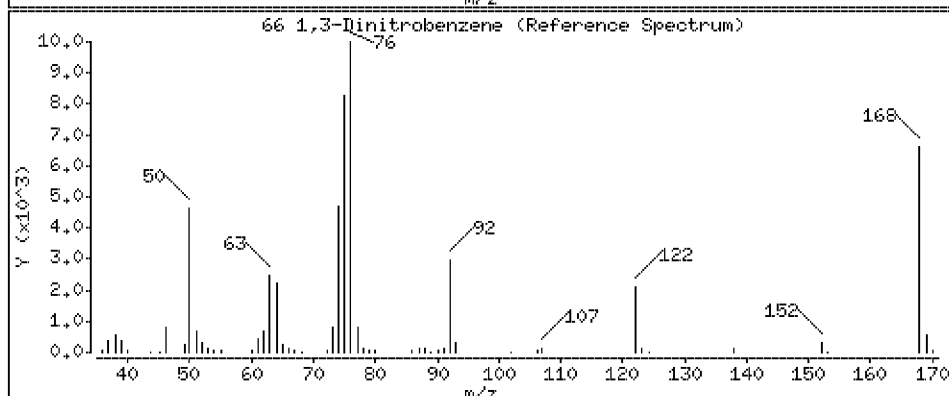
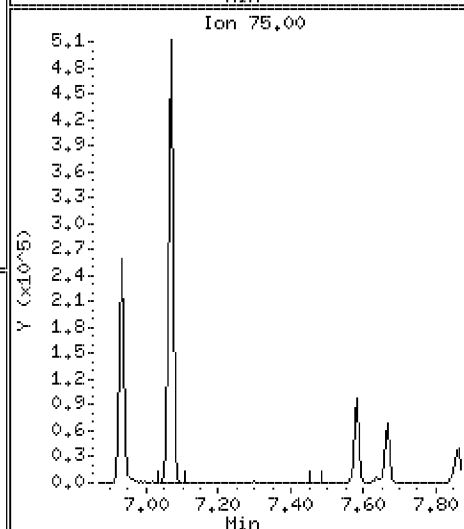
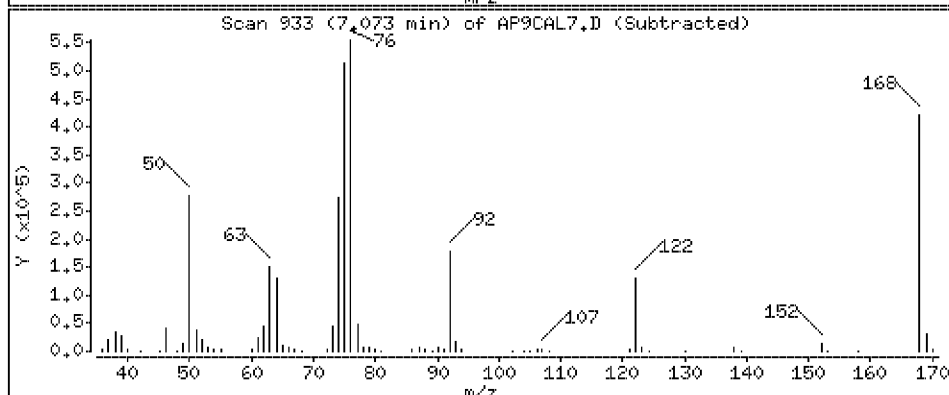
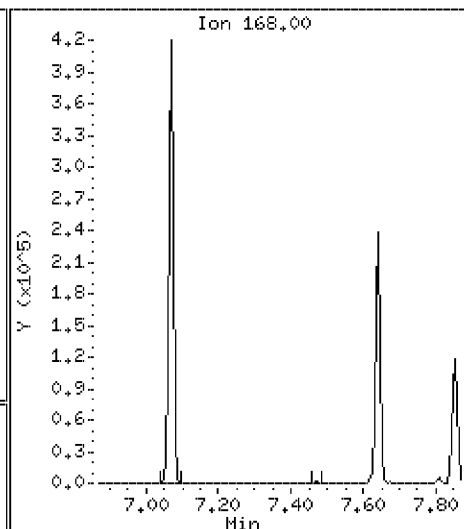
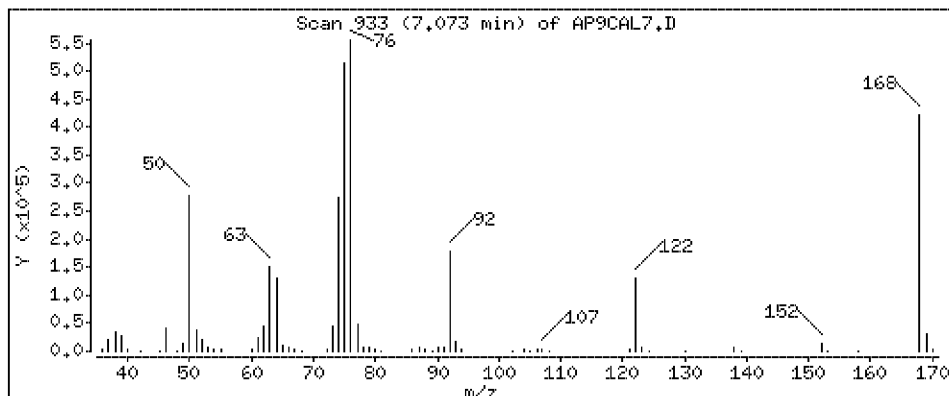
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

66 1,3-Dinitrobenzene

Concentration: 111 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

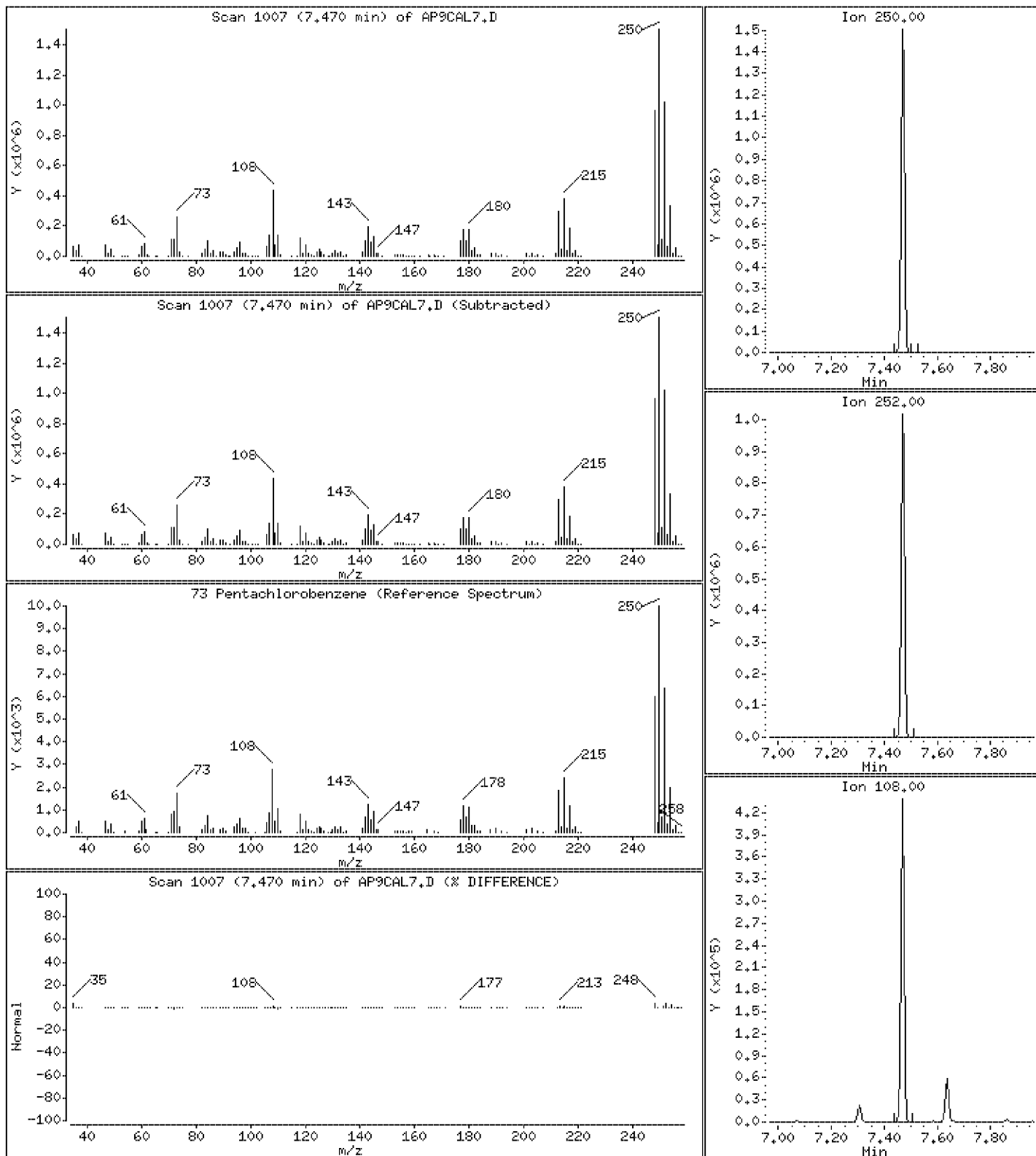
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

73 Pentachlorobenzene

Concentration: 110 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

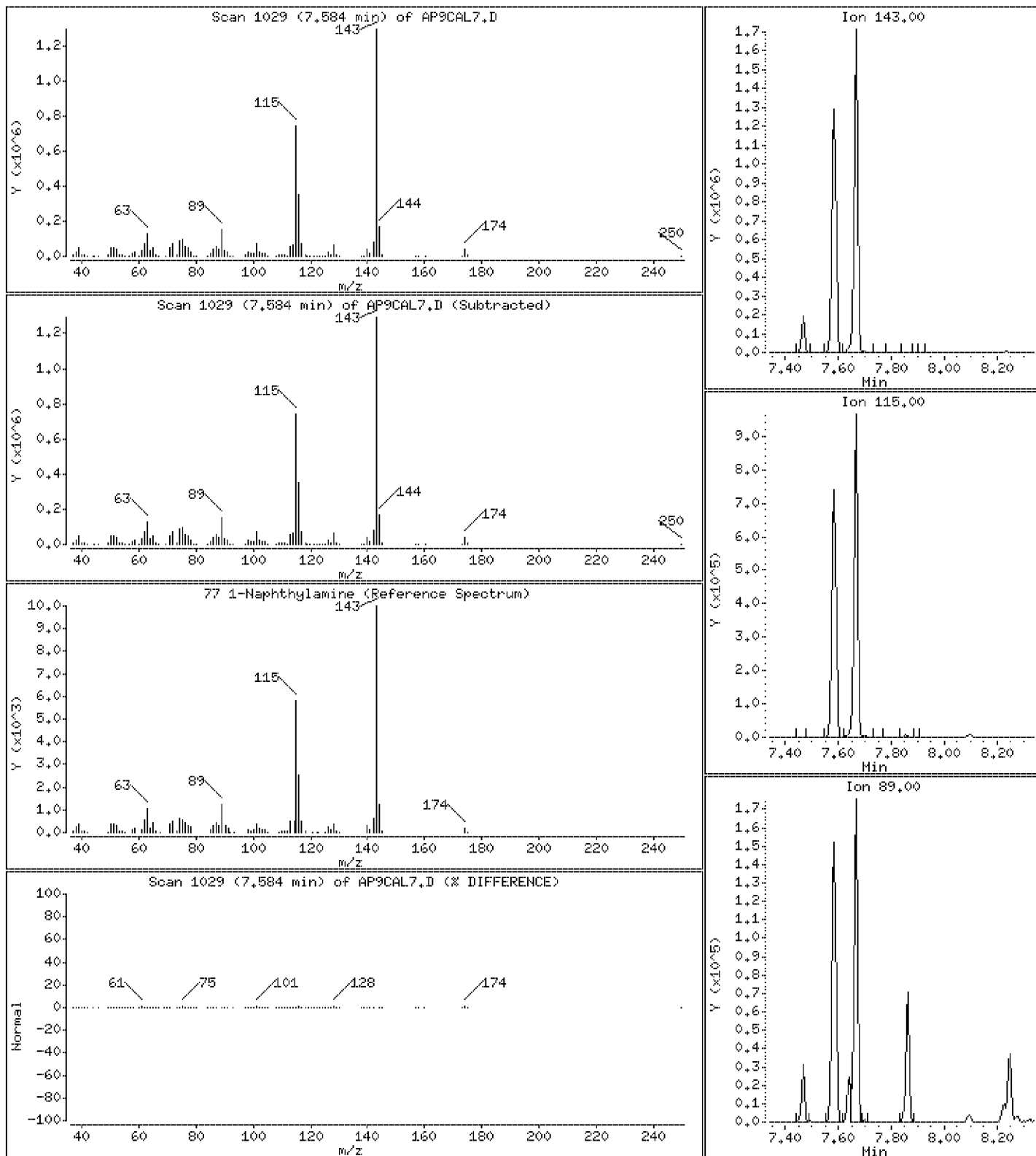
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

77 1-Naphthylamine

Concentration: 105 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

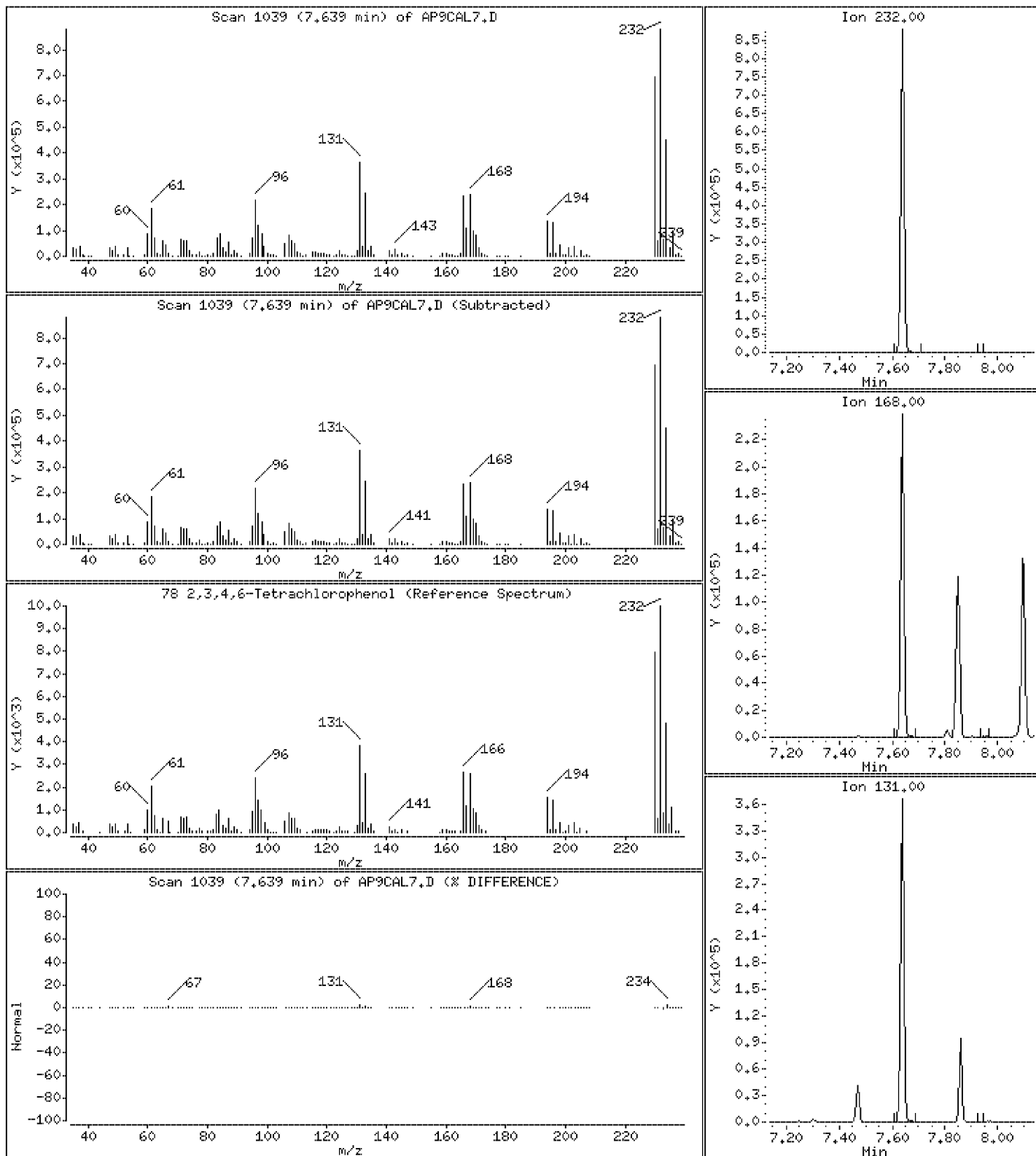
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

78 2,3,4,6-Tetrachlorophenol

Concentration: 115 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

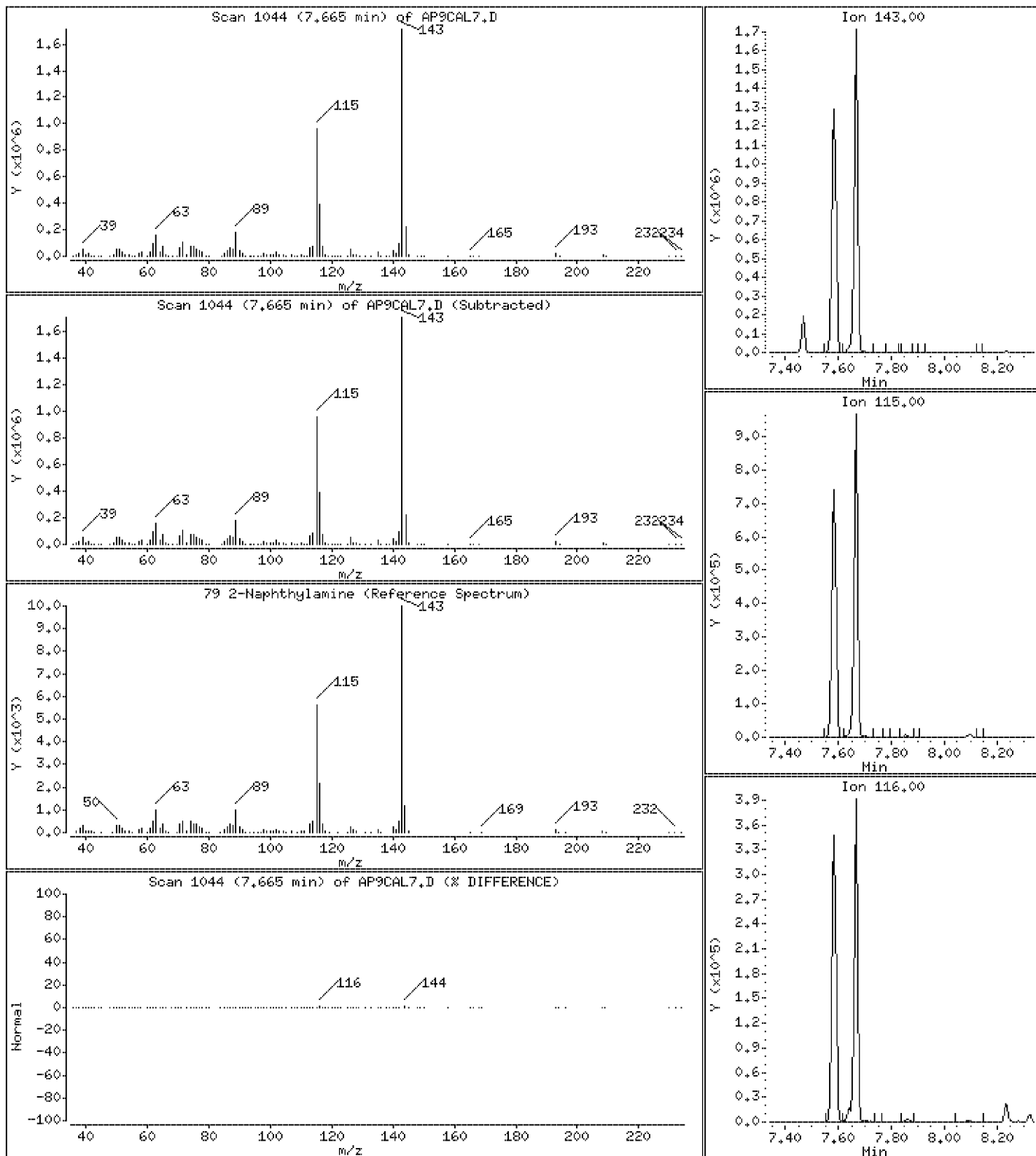
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

79 2-Naphthylamine

Concentration: 106 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

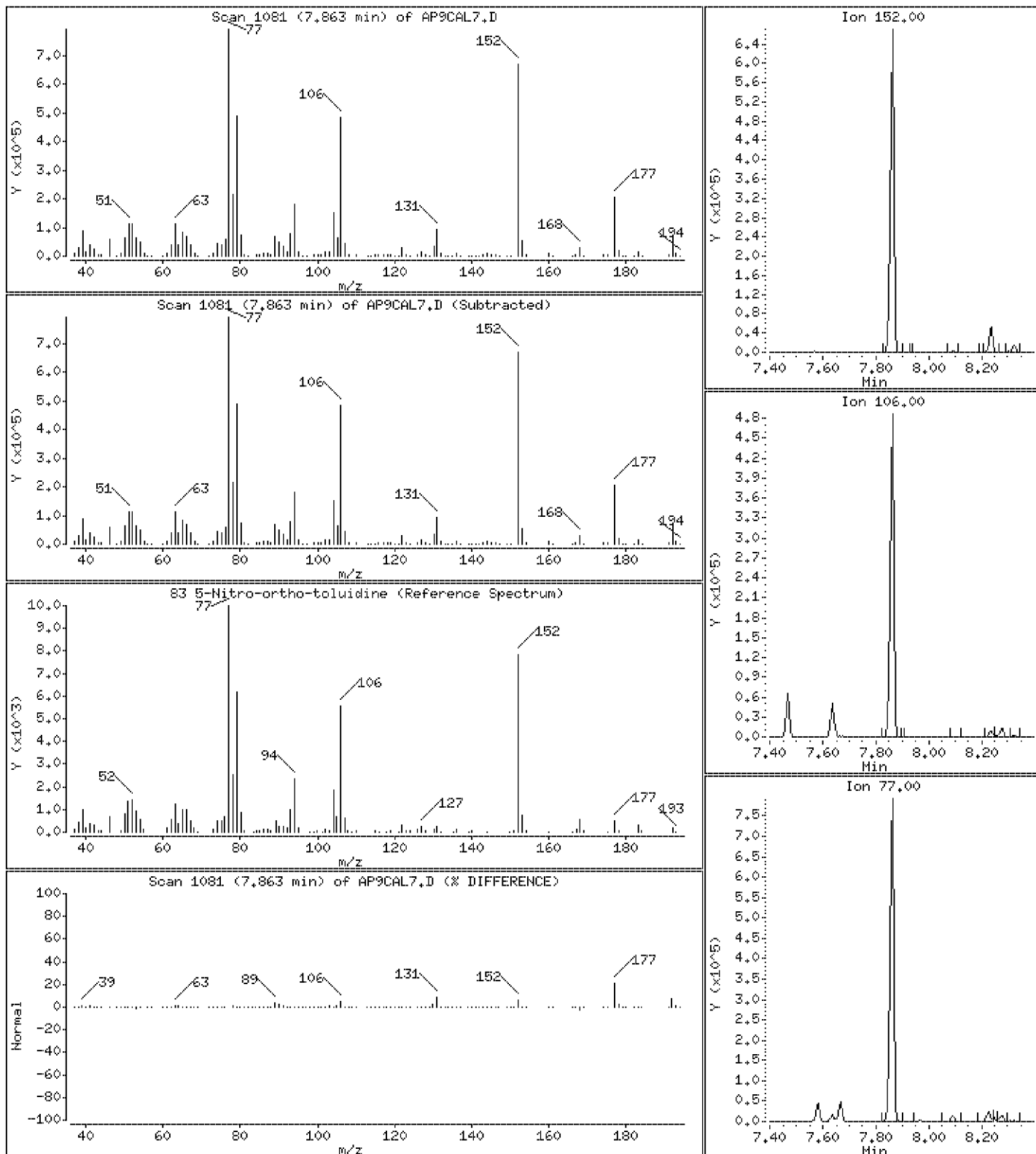
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

83 5-Nitro-ortho-toluidine

Concentration: 109 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

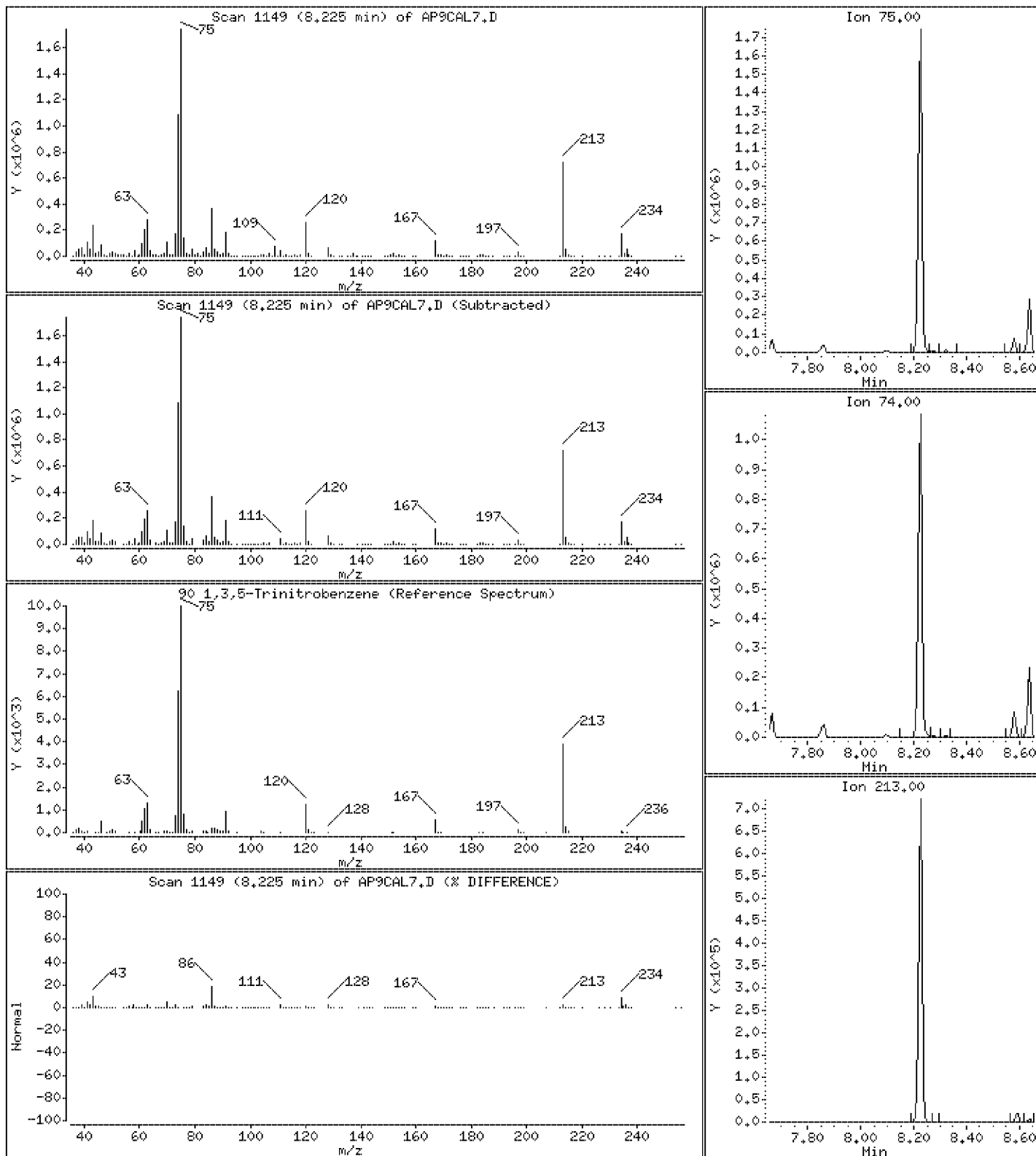
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

90 1,3,5-Trinitrobenzene

Concentration: 102 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

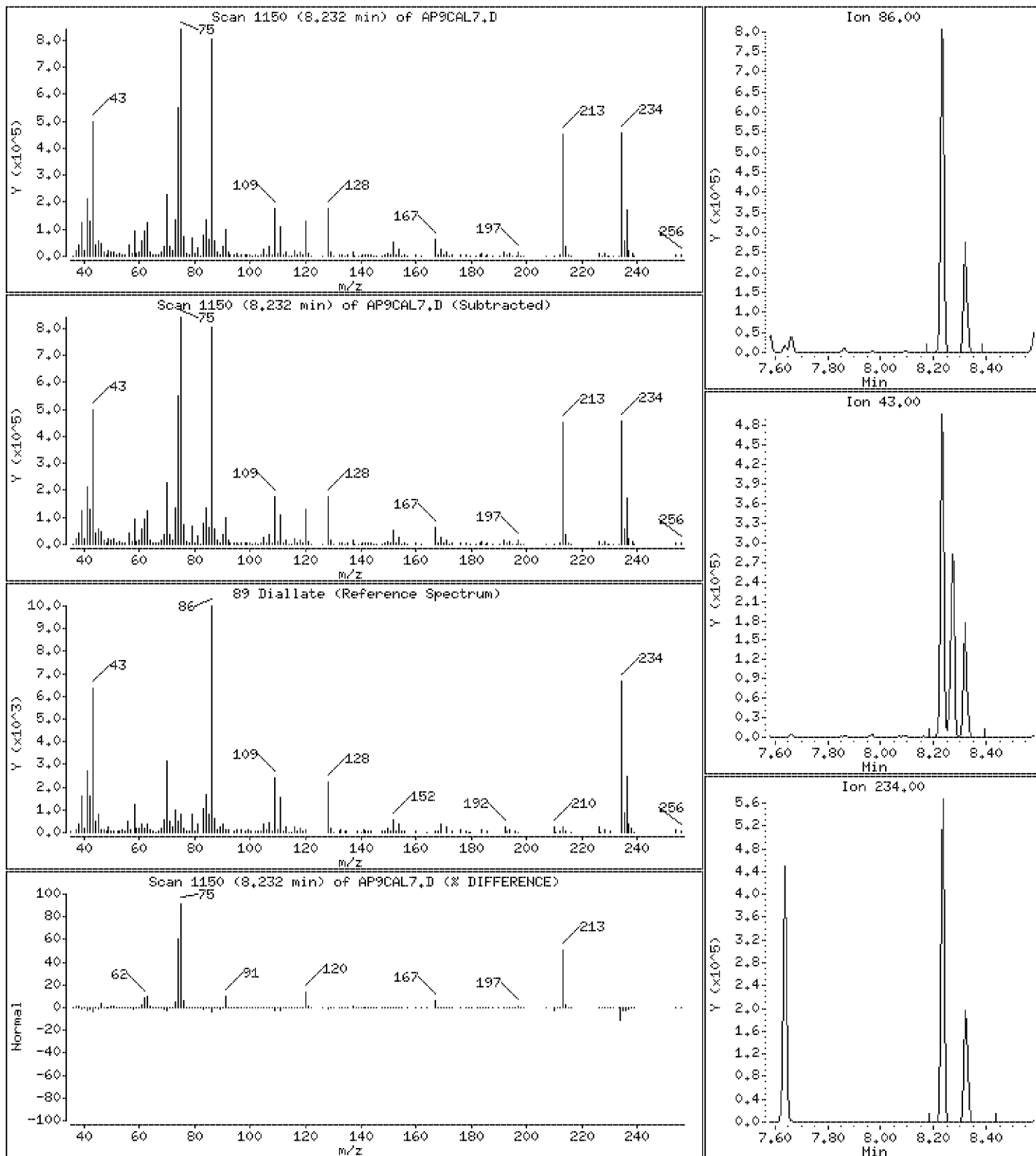
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

89 Diallate

Concentration: 118 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

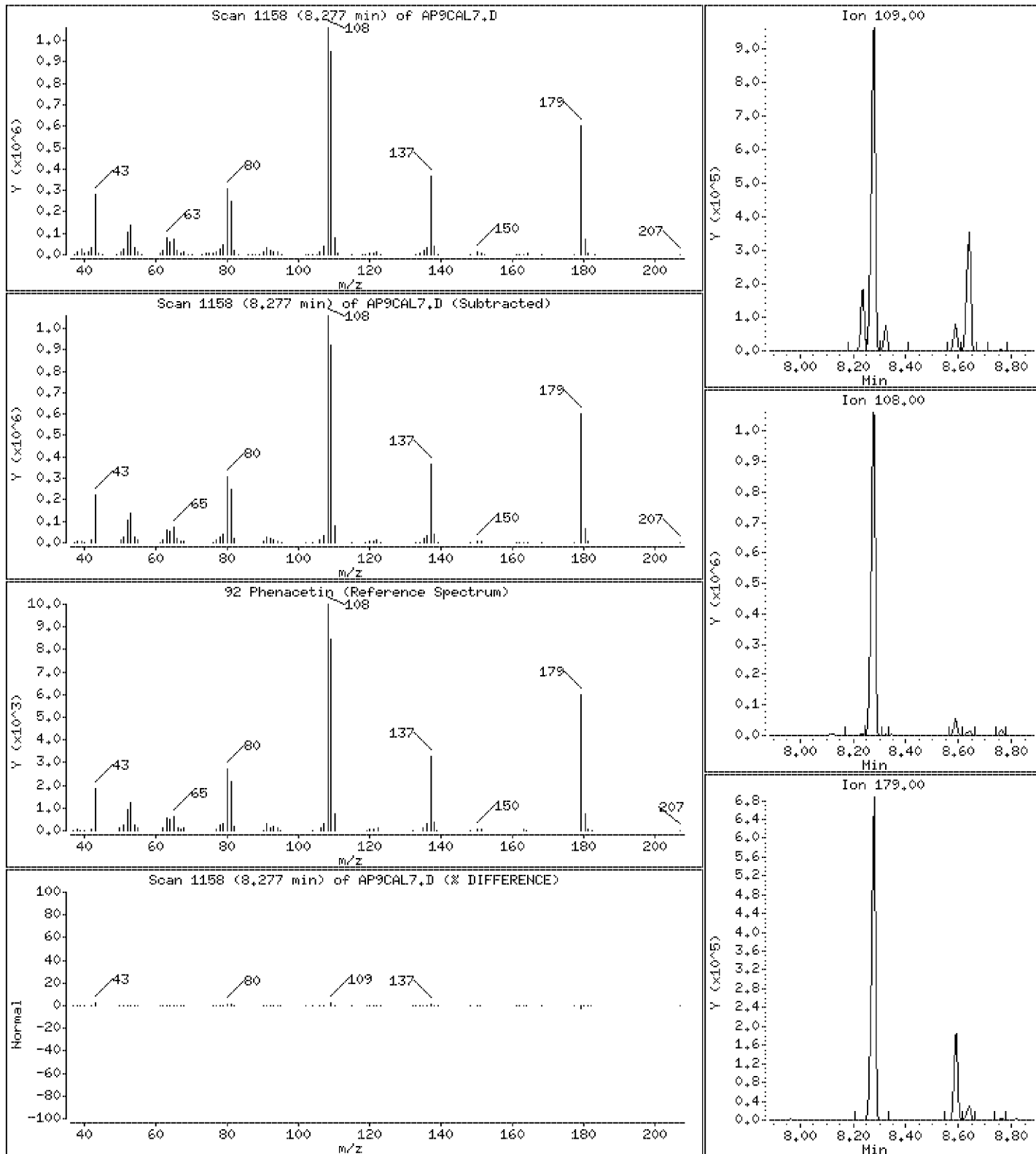
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

92 Phenacetin

Concentration: 103 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

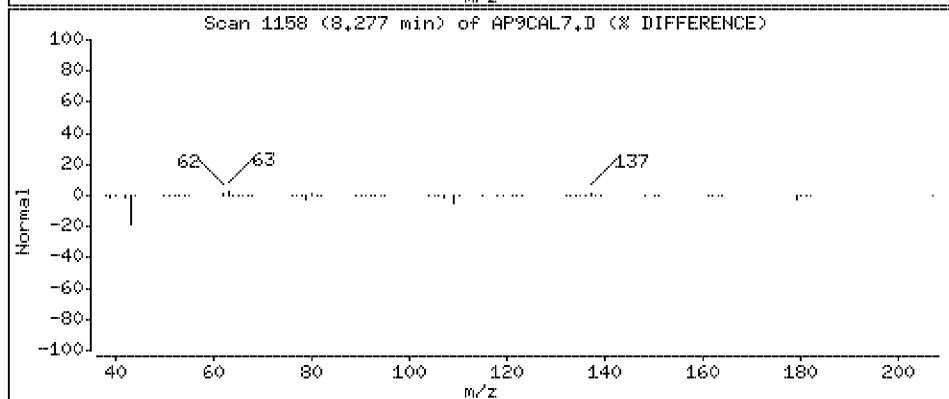
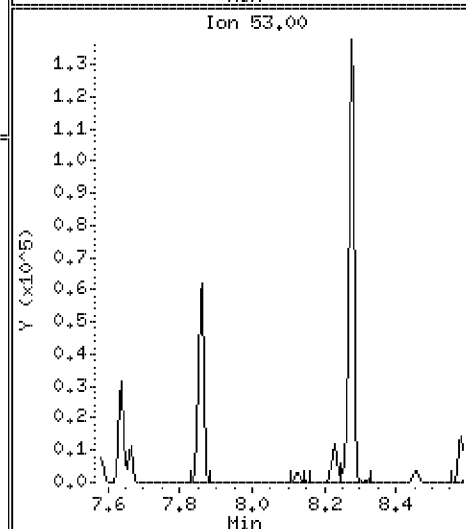
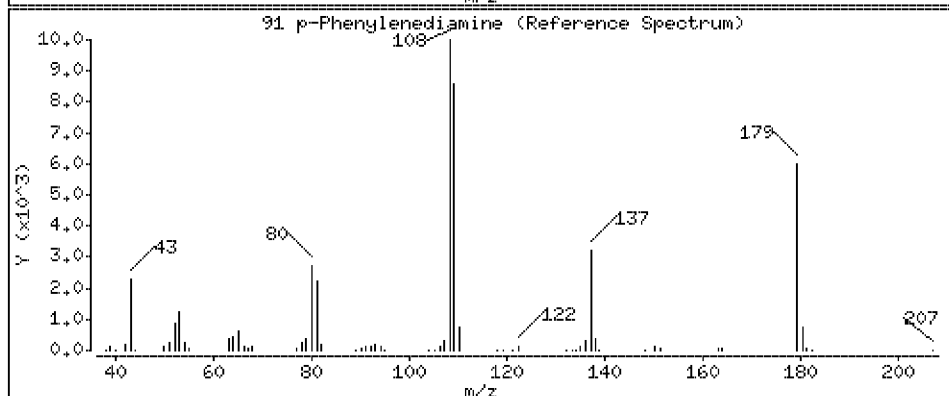
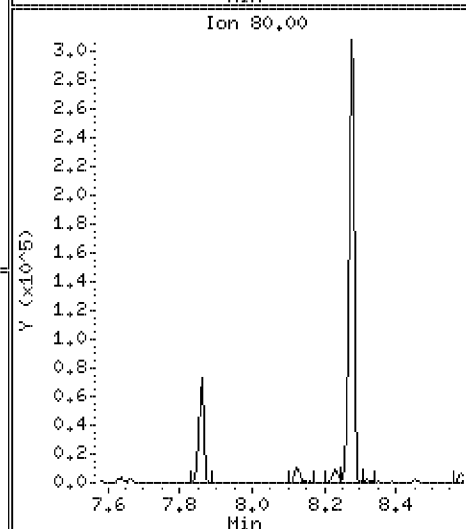
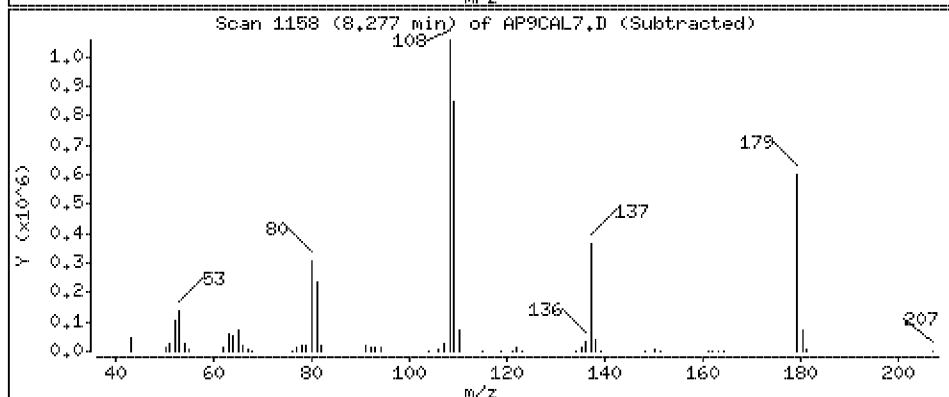
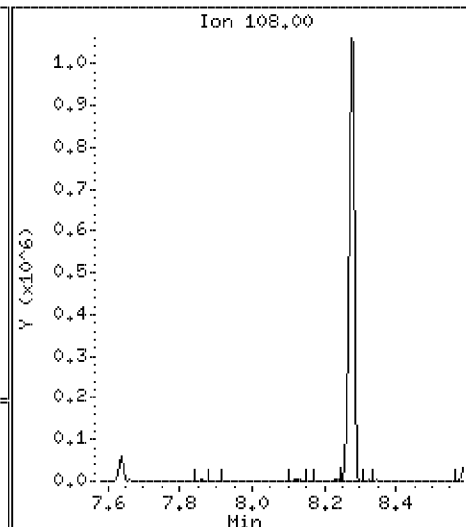
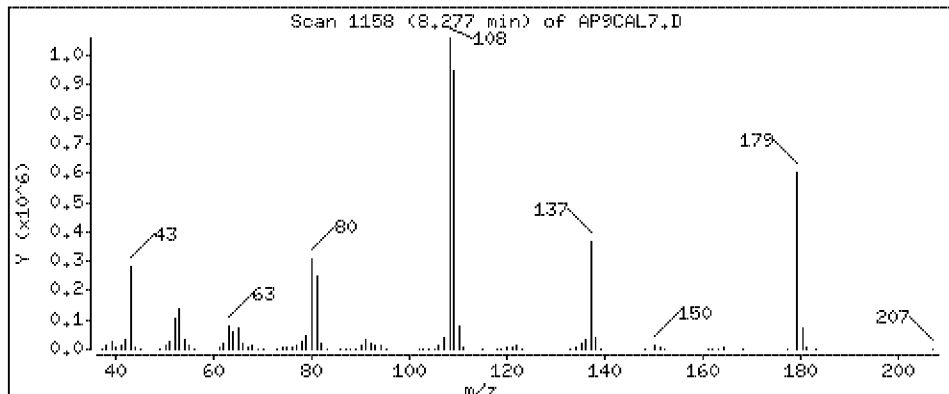
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

91 p-Phenylenediamine

Concentration: 106 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

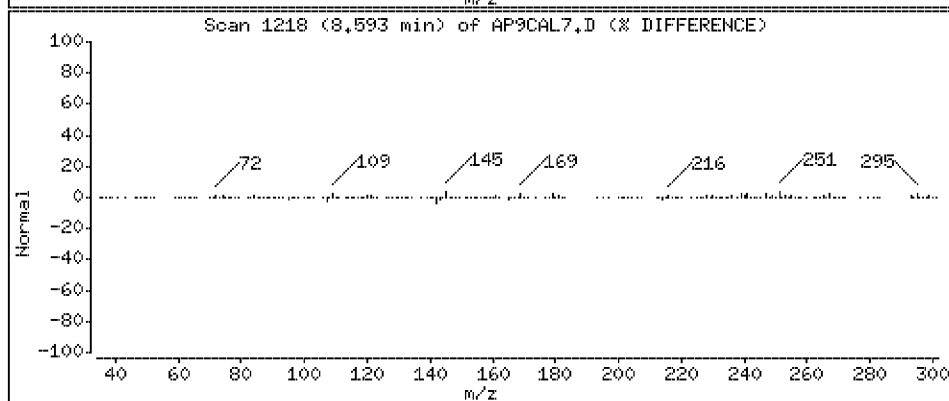
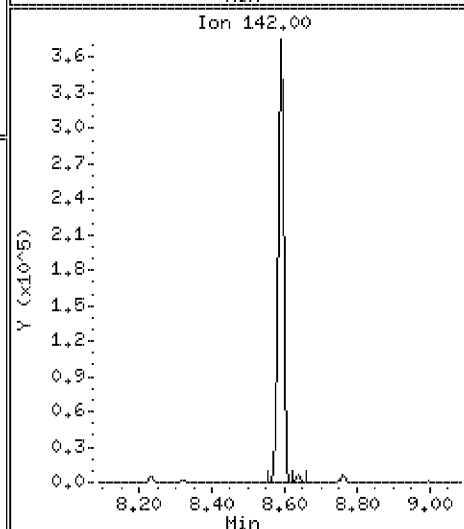
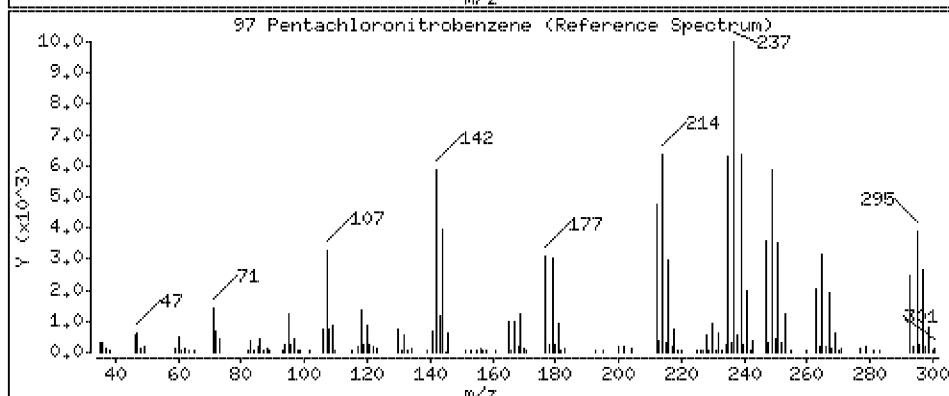
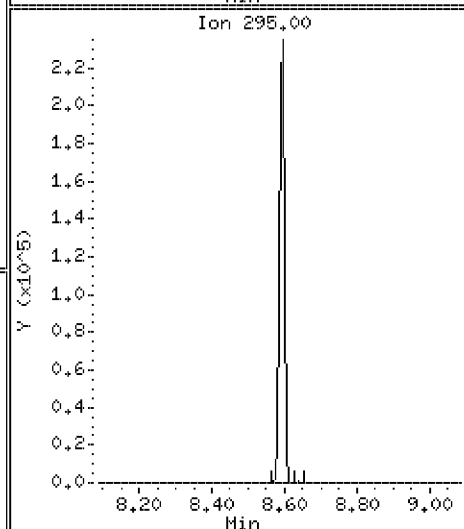
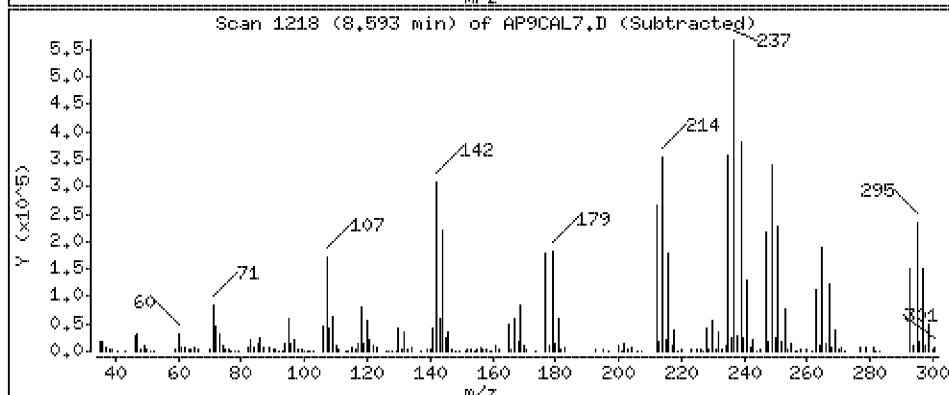
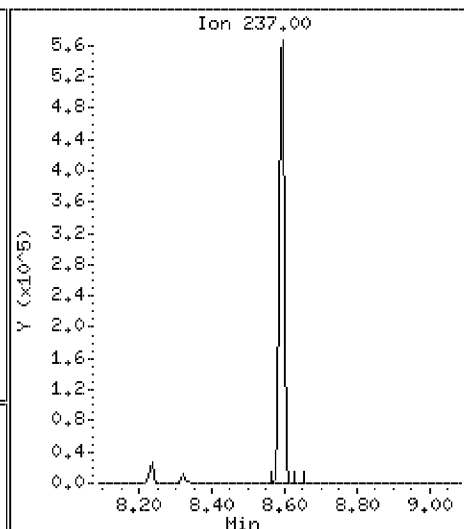
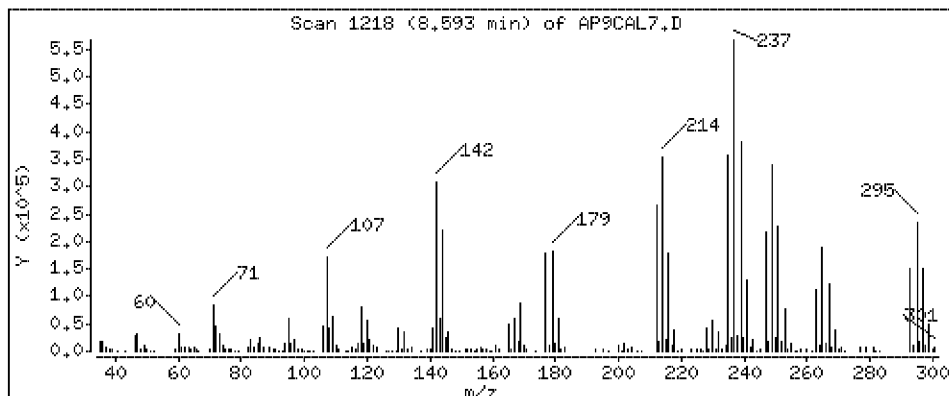
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

97 Pentachloronitrobenzene

Concentration: 107 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

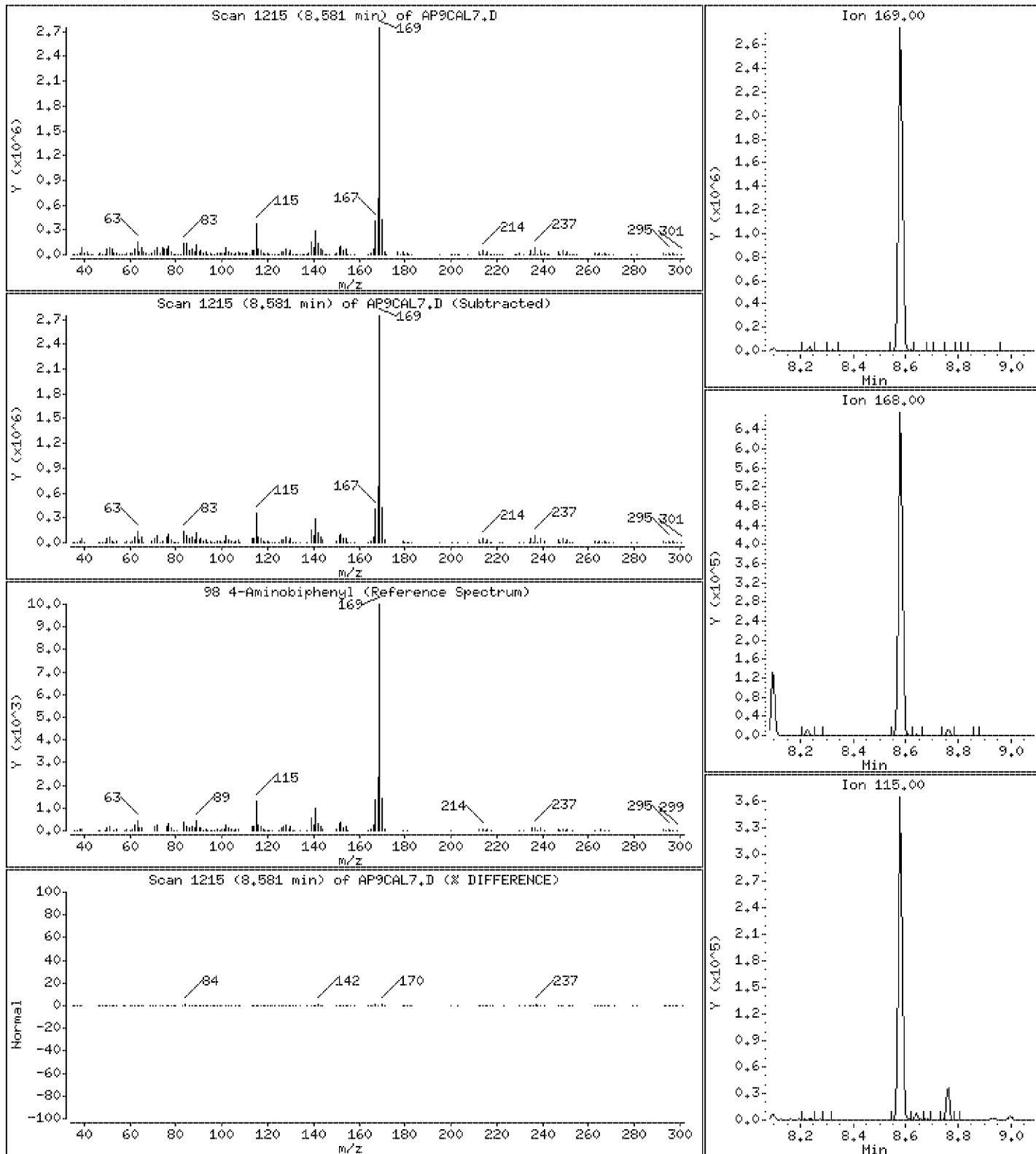
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

98 4-Aminobiphenyl

Concentration: 101 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

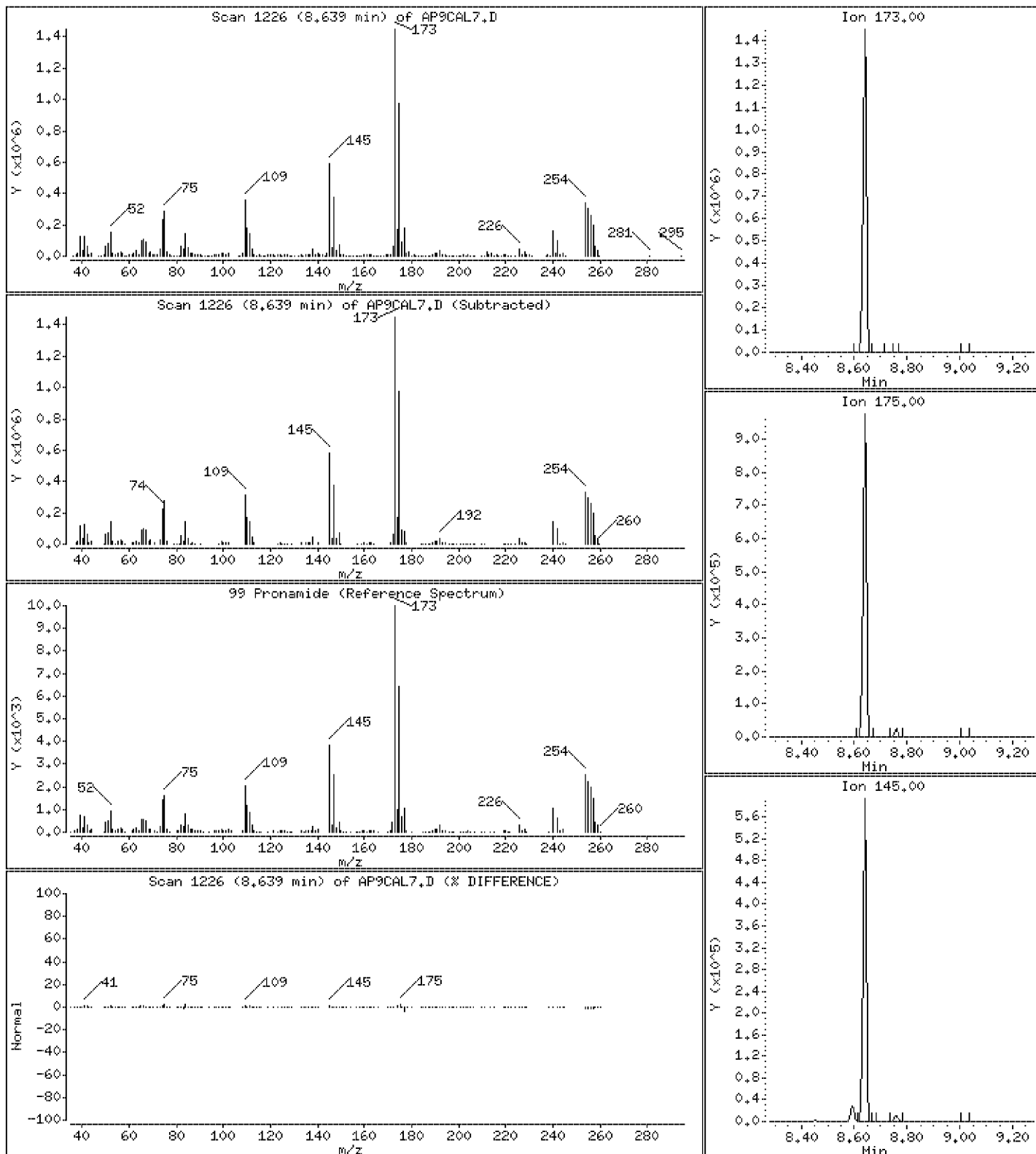
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

99 Pronamide

Concentration: 105 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

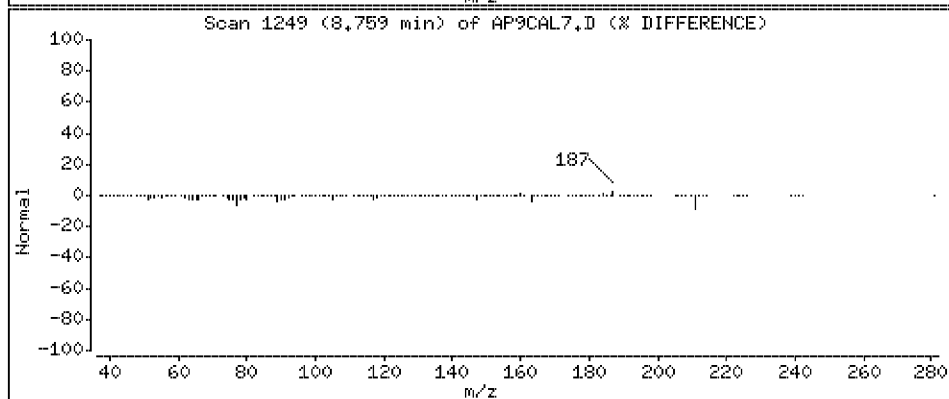
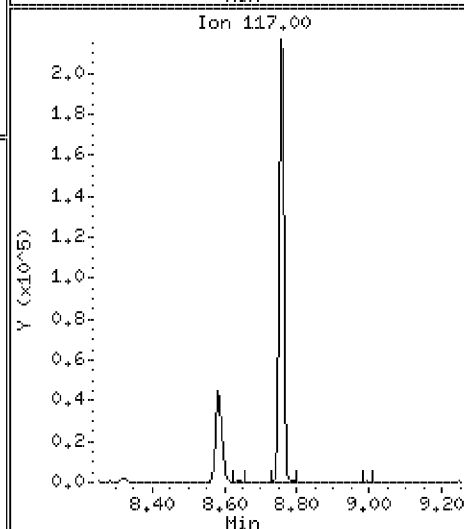
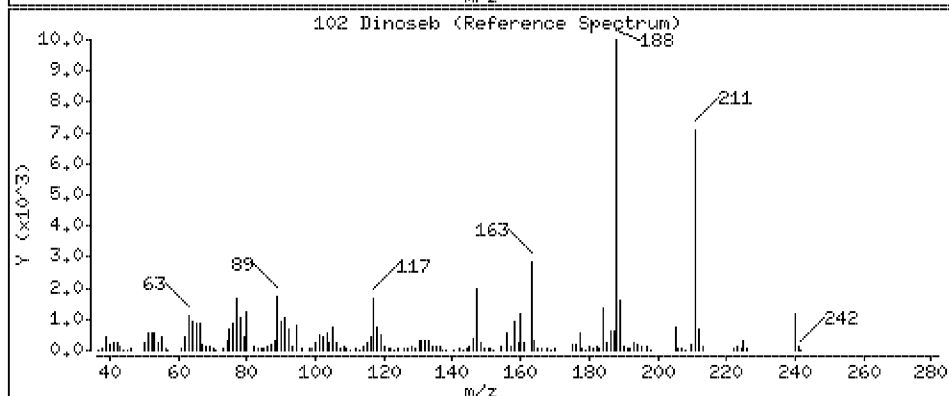
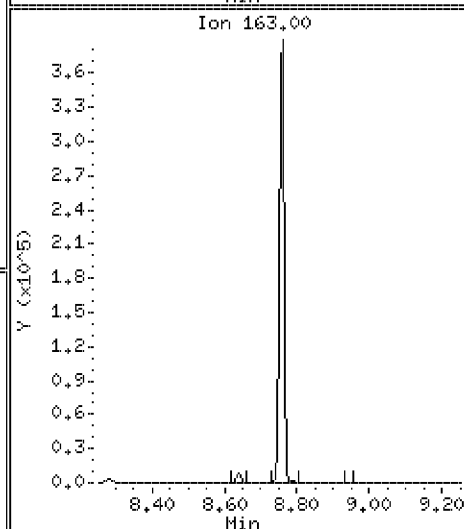
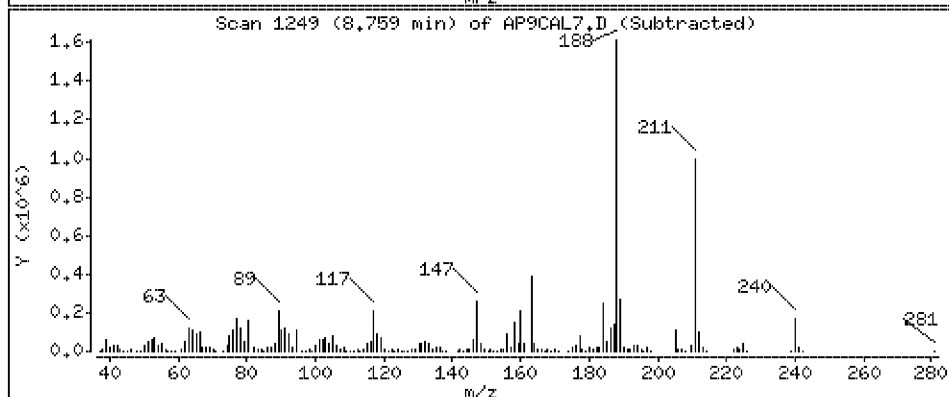
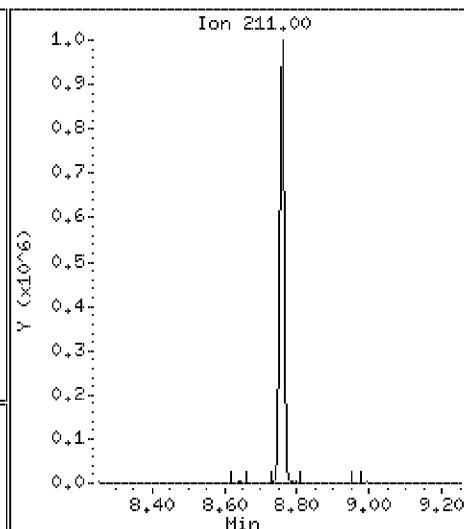
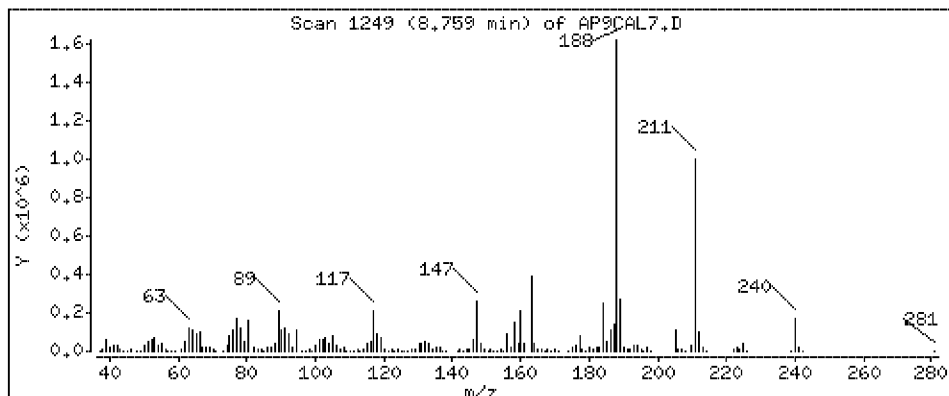
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

102 Dinoseb

Concentration: 100 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

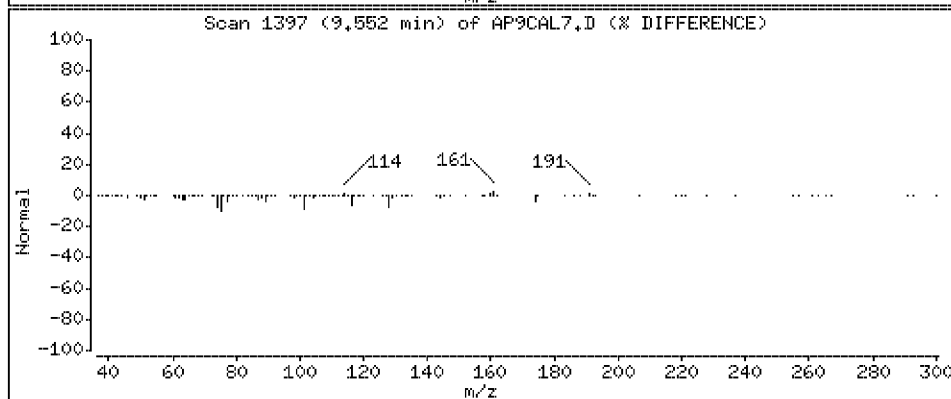
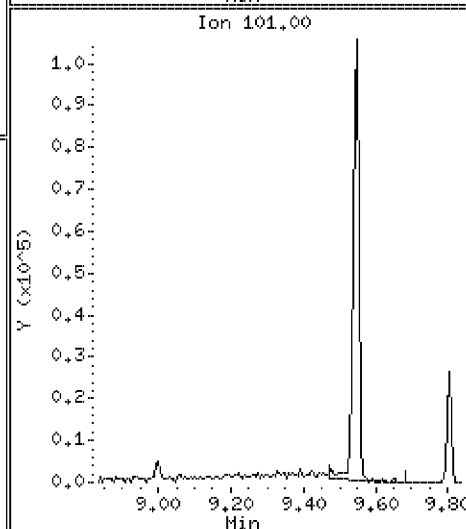
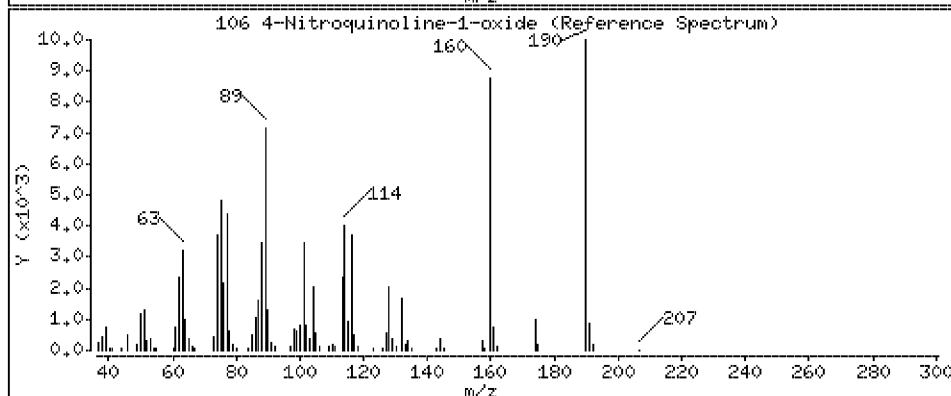
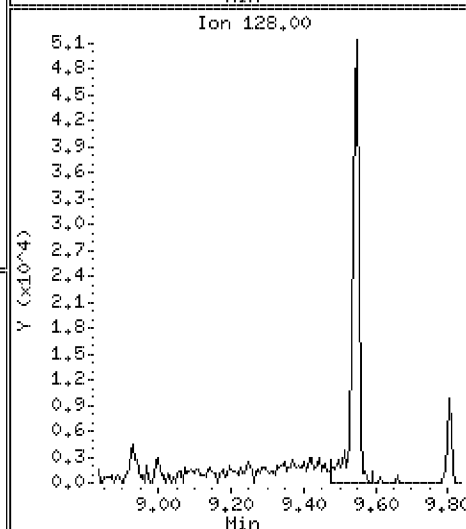
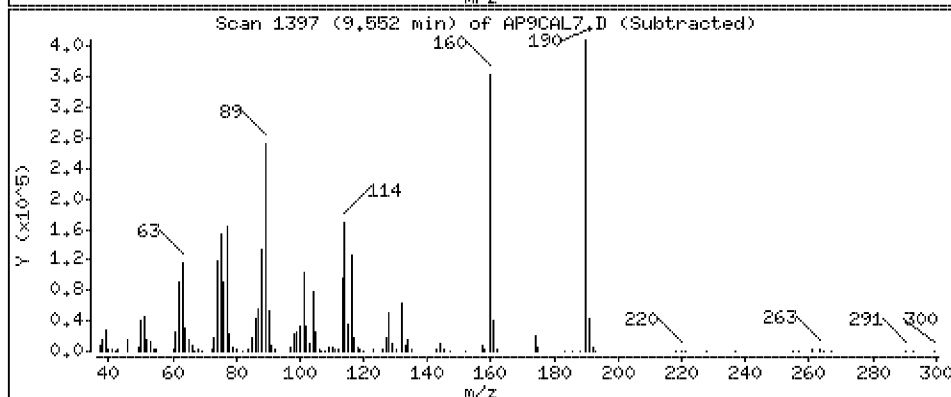
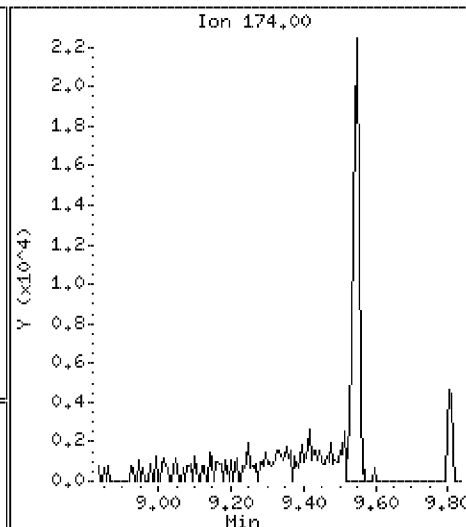
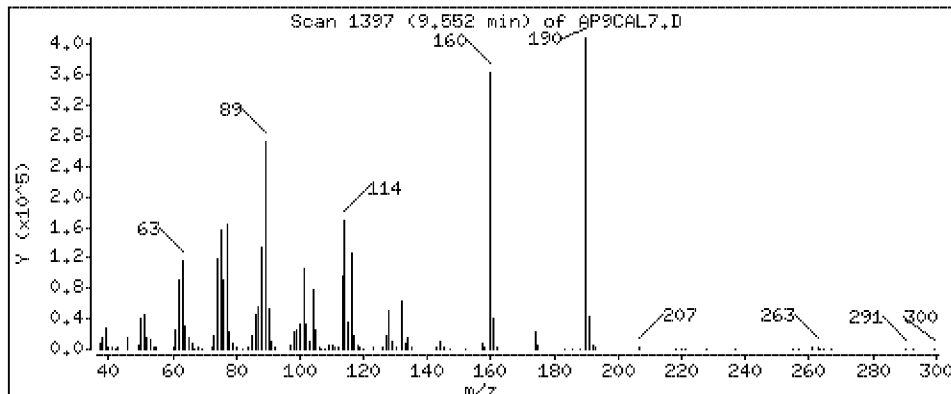
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

106 4-Nitroquinoline-1-oxide

Concentration: 99.6 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

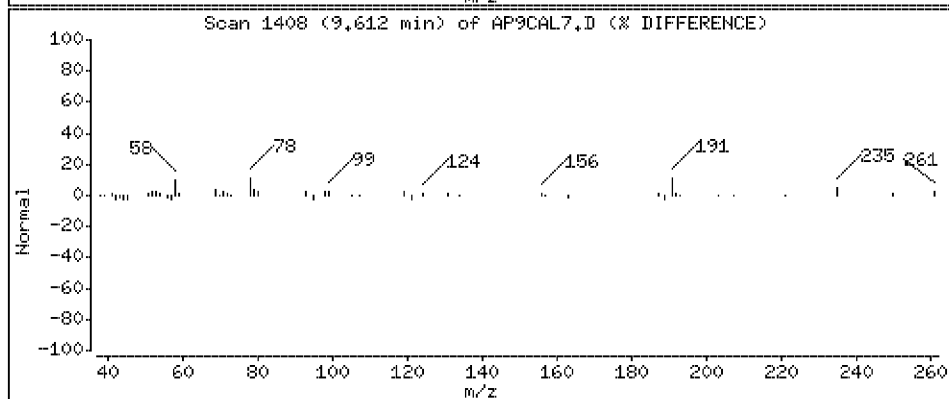
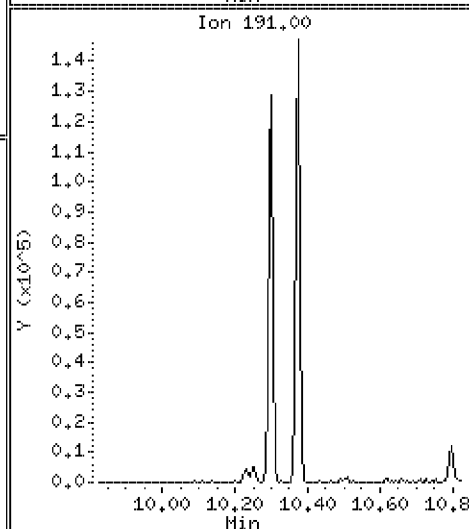
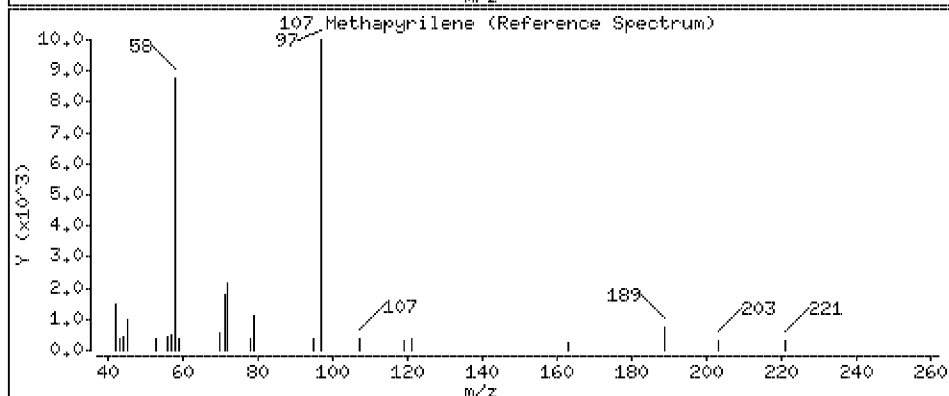
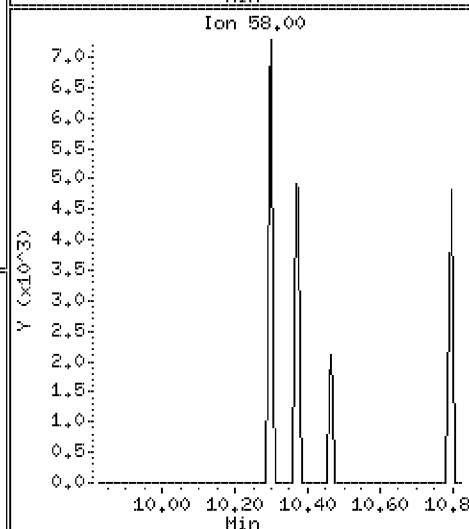
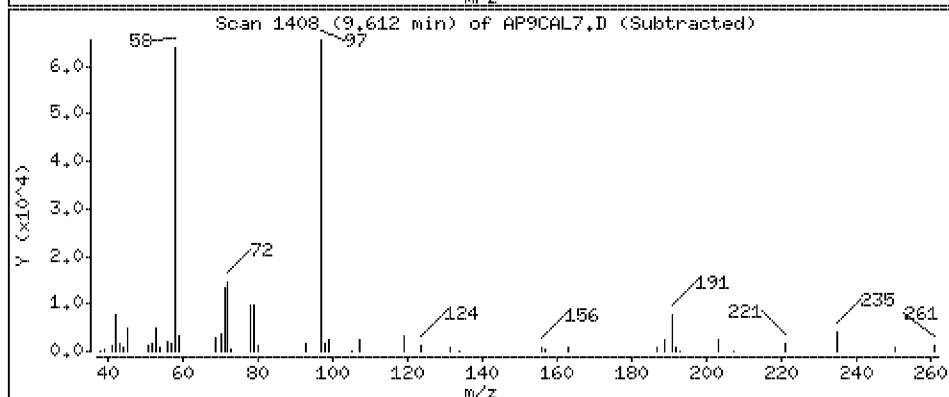
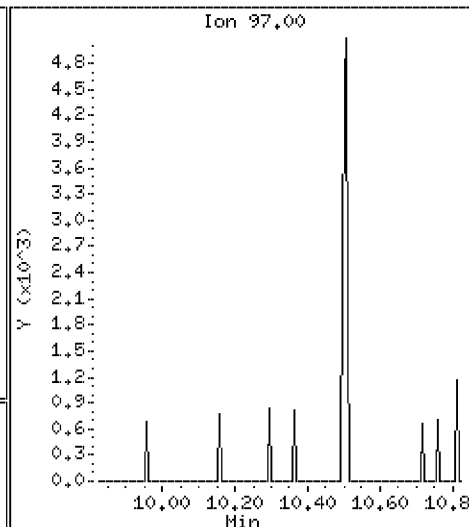
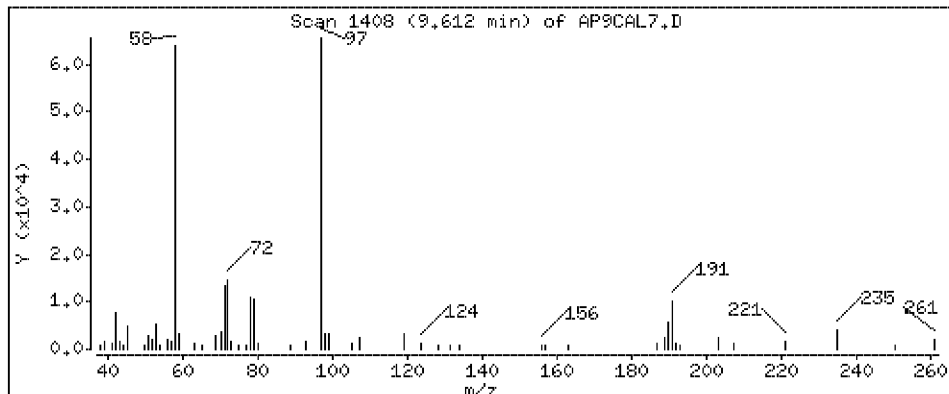
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

107 Methapyrilene

Concentration: 110 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

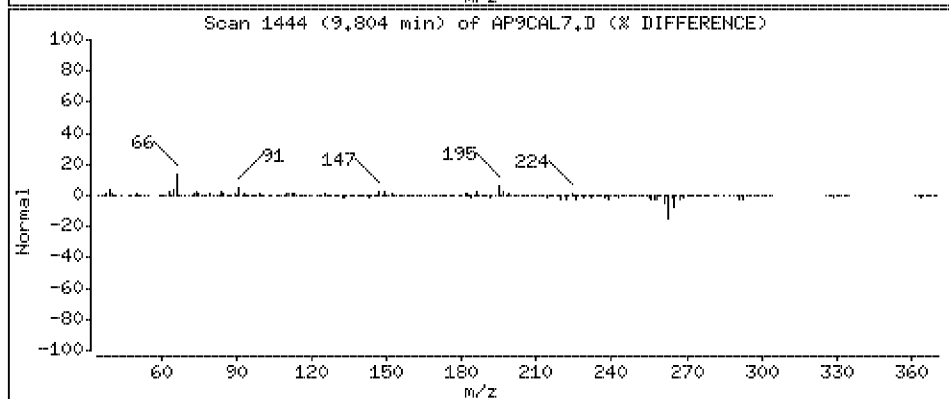
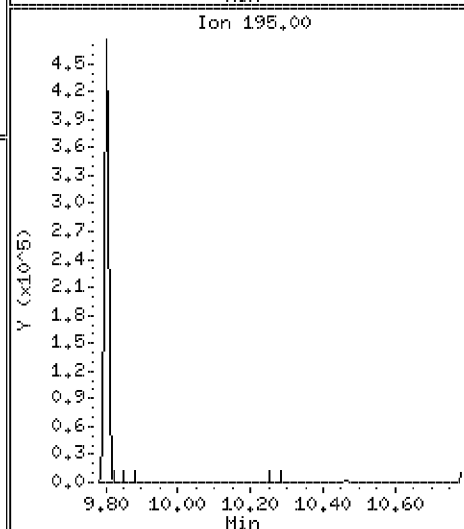
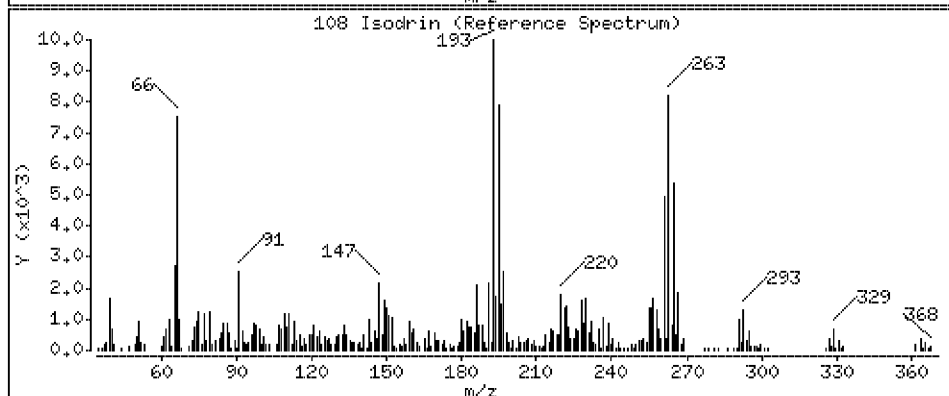
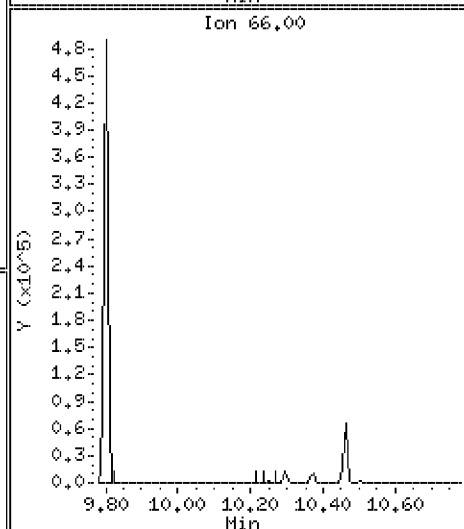
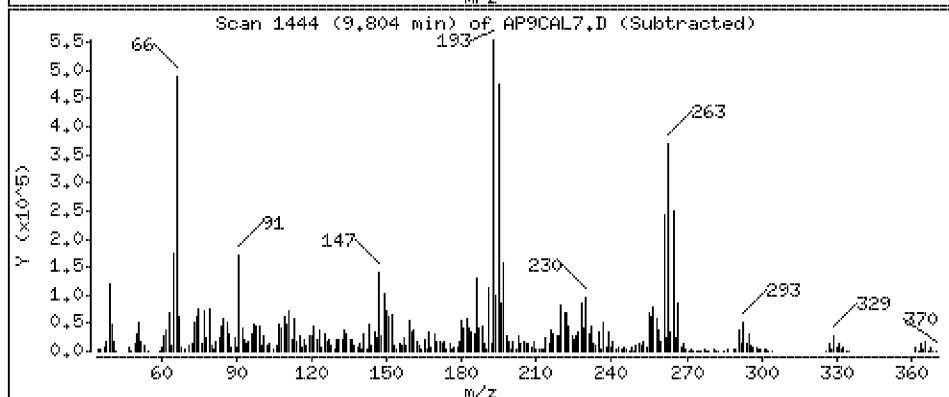
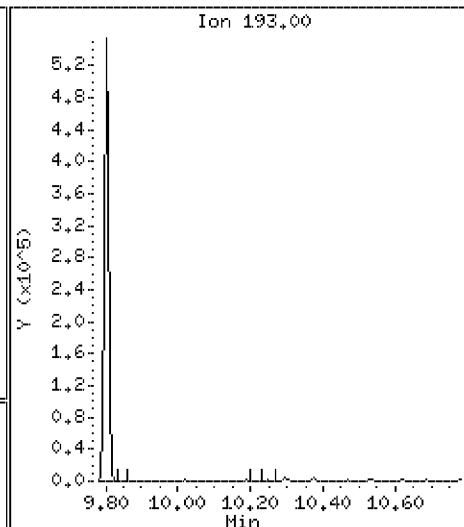
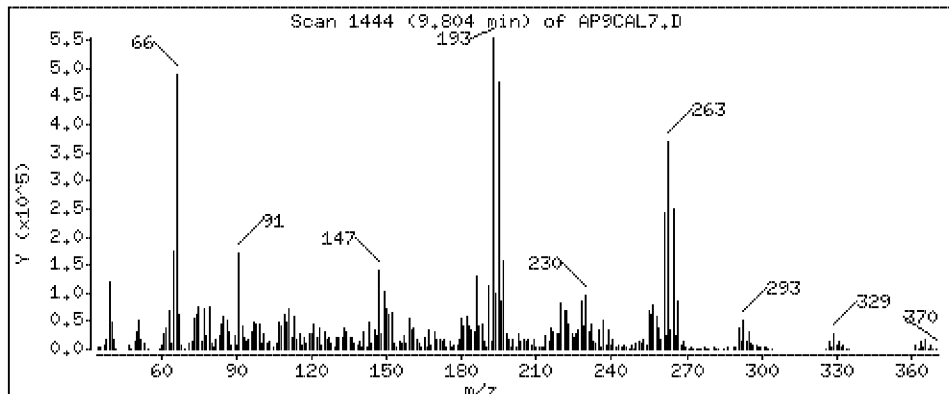
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

108 Isodrin

Concentration: 104 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

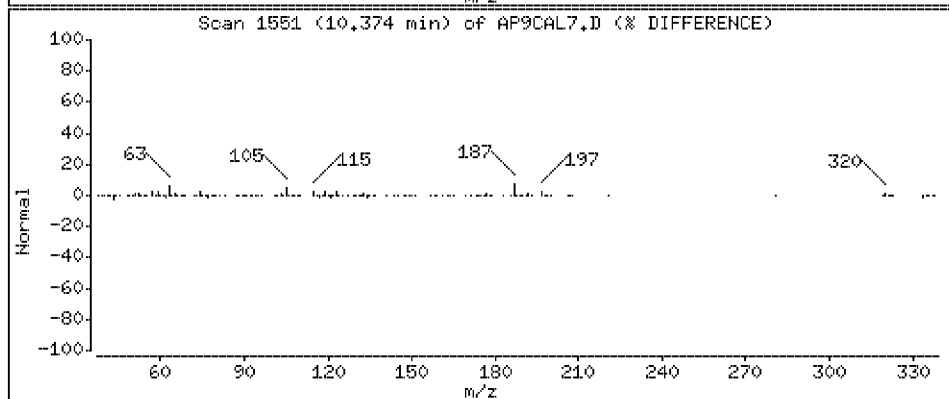
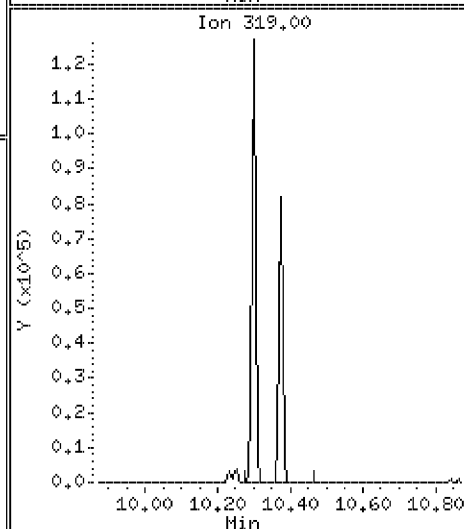
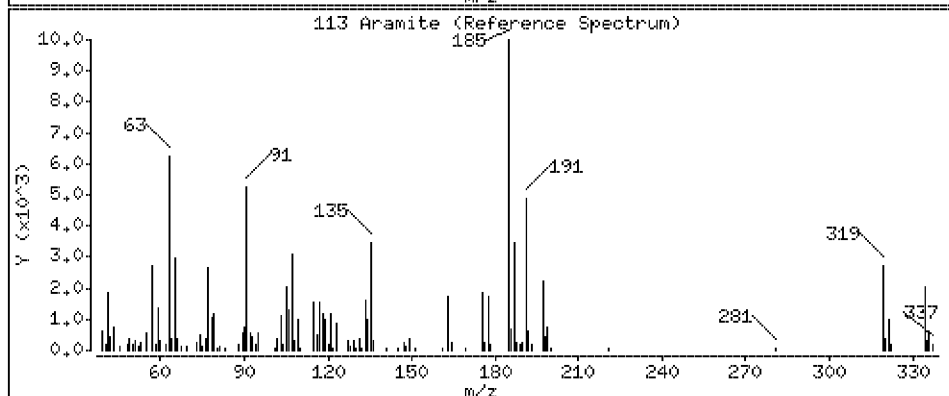
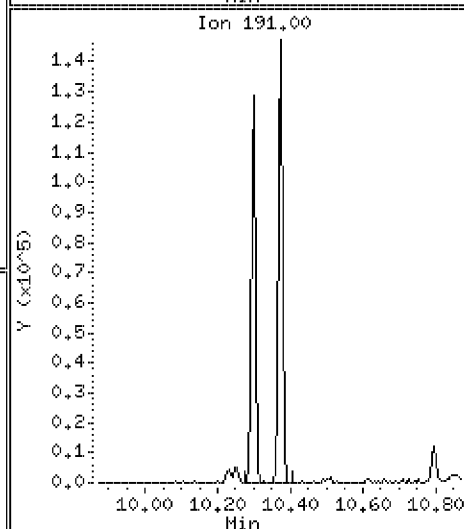
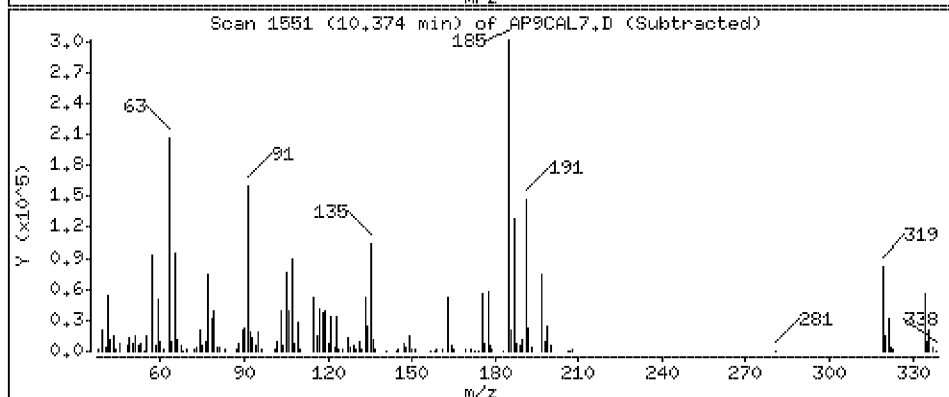
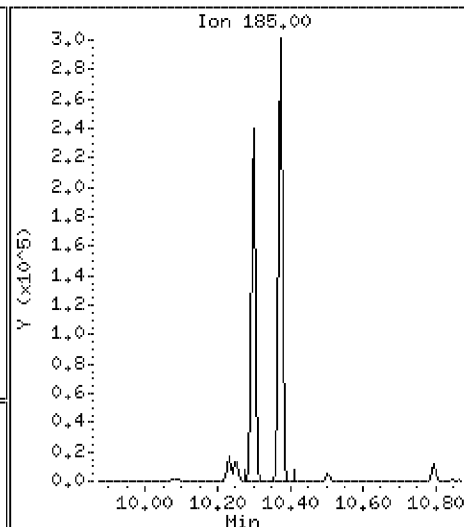
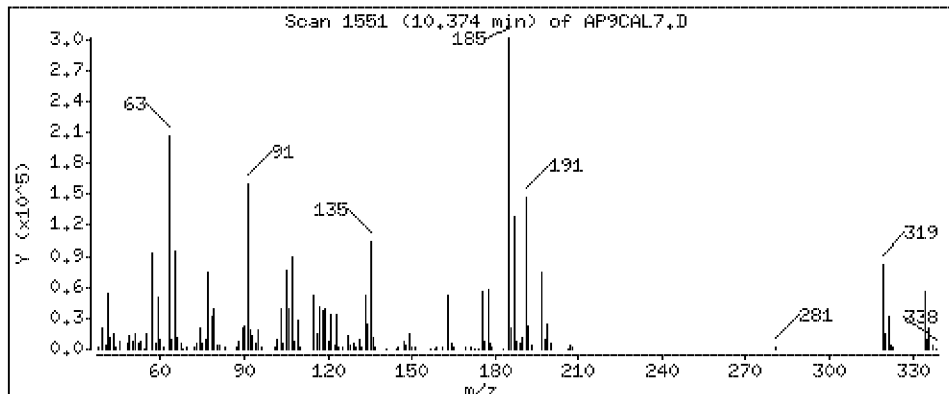
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

113 Aramite

Concentration: 107 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

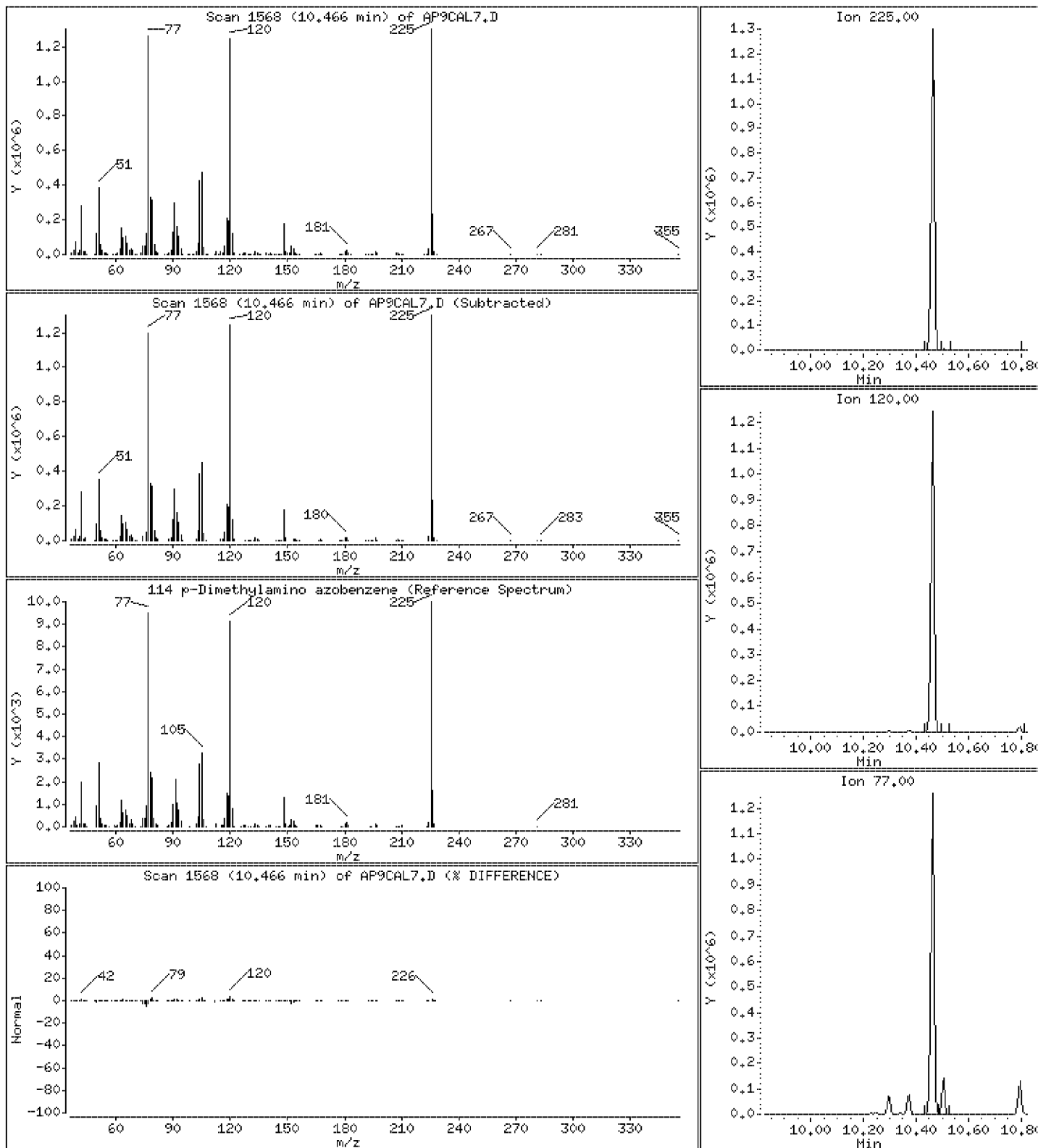
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

114 p-Dimethylamino azobenzene

Concentration: 114 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

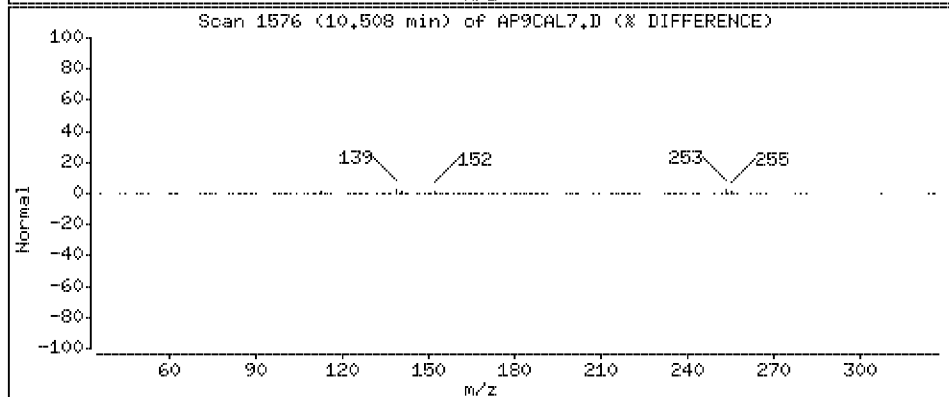
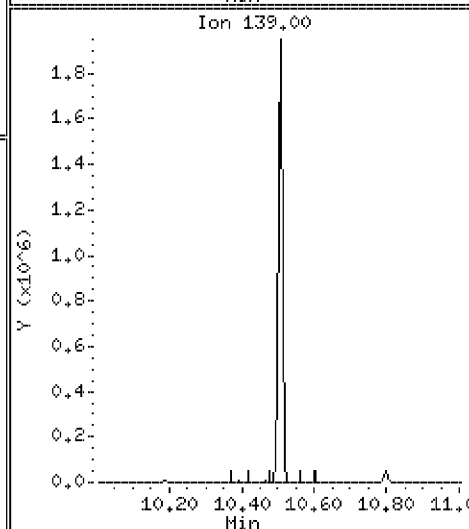
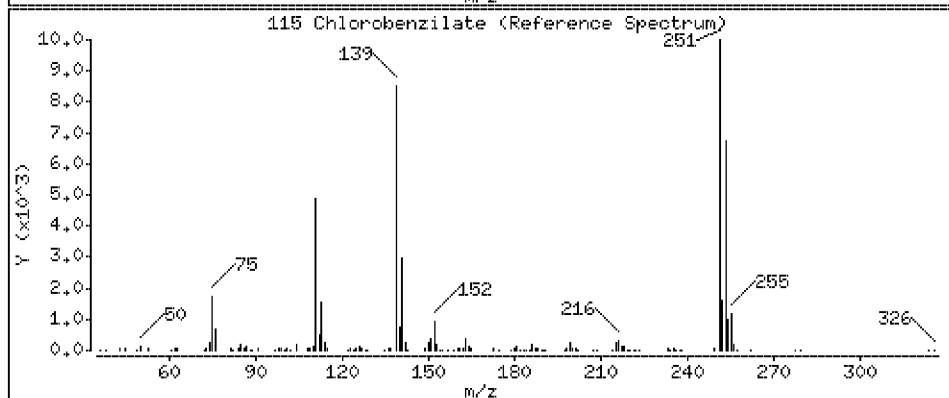
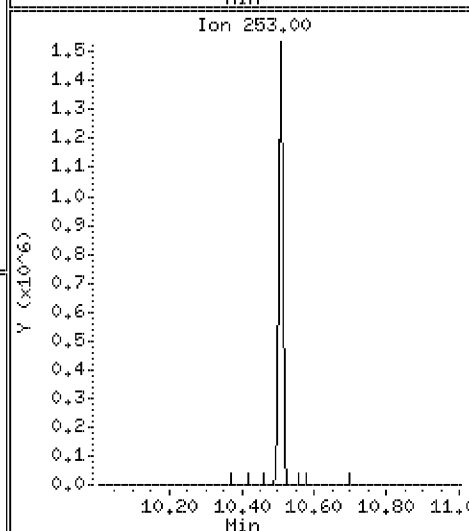
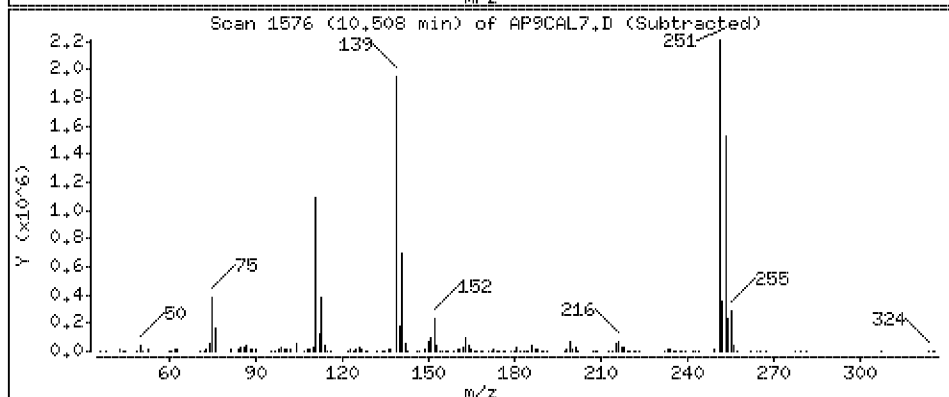
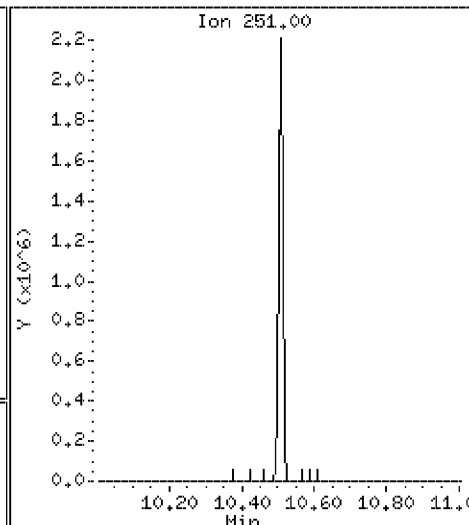
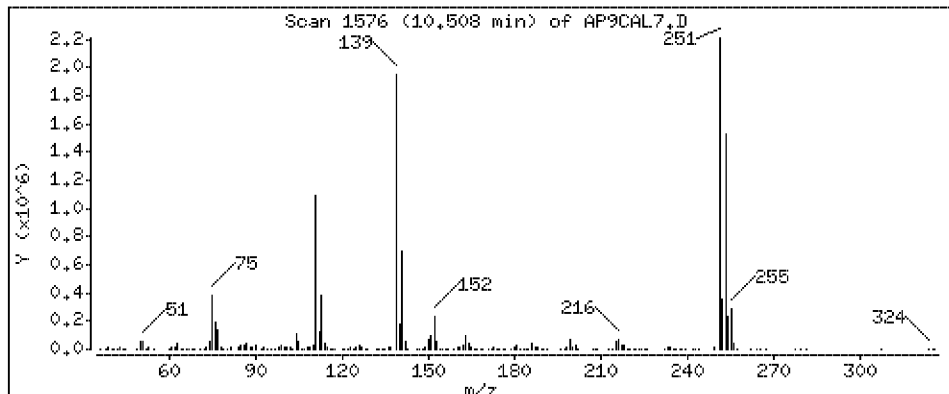
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

115 Chlorobenzilate

Concentration: 114 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

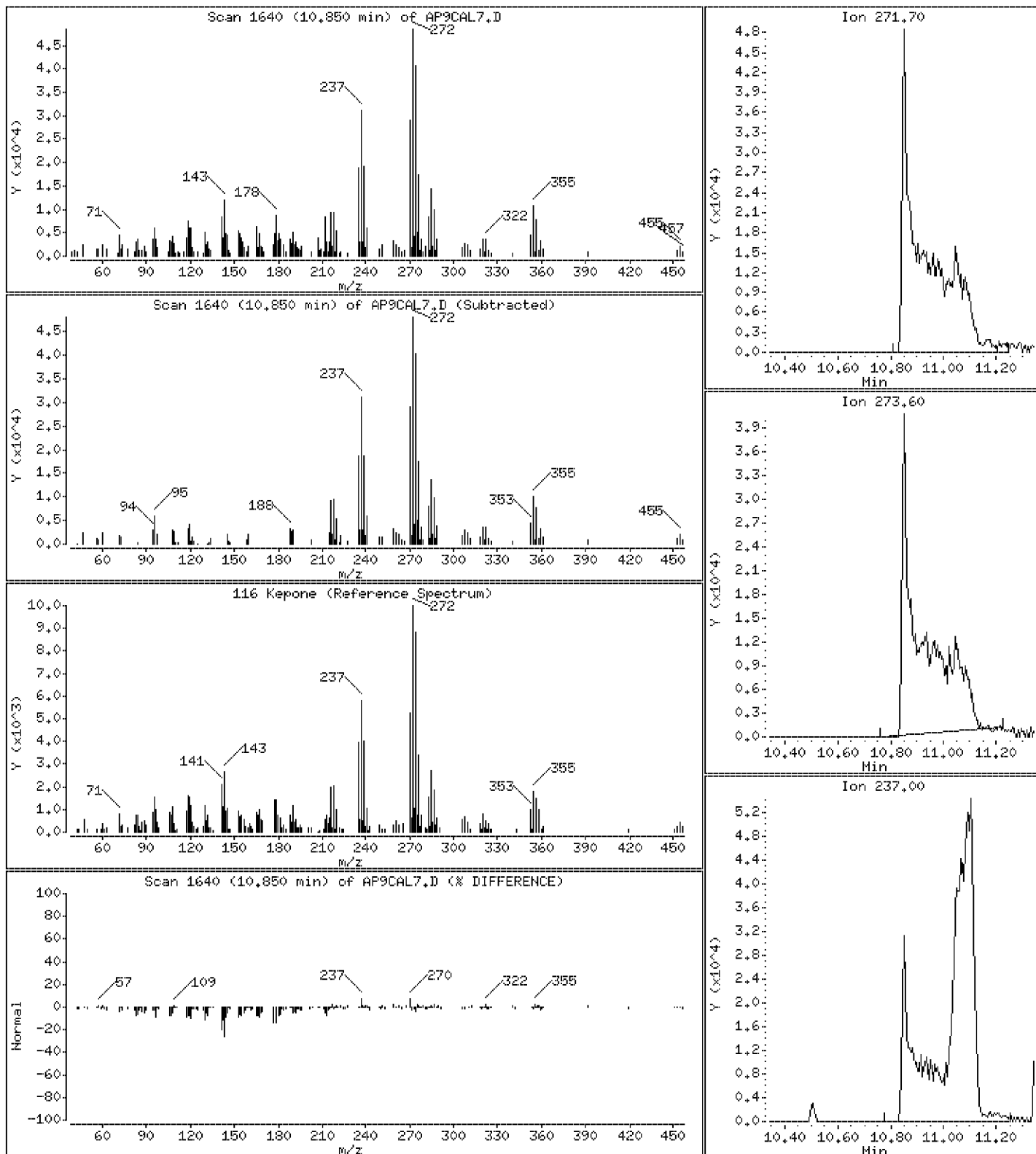
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

116 Kepone

Concentration: 98.0 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

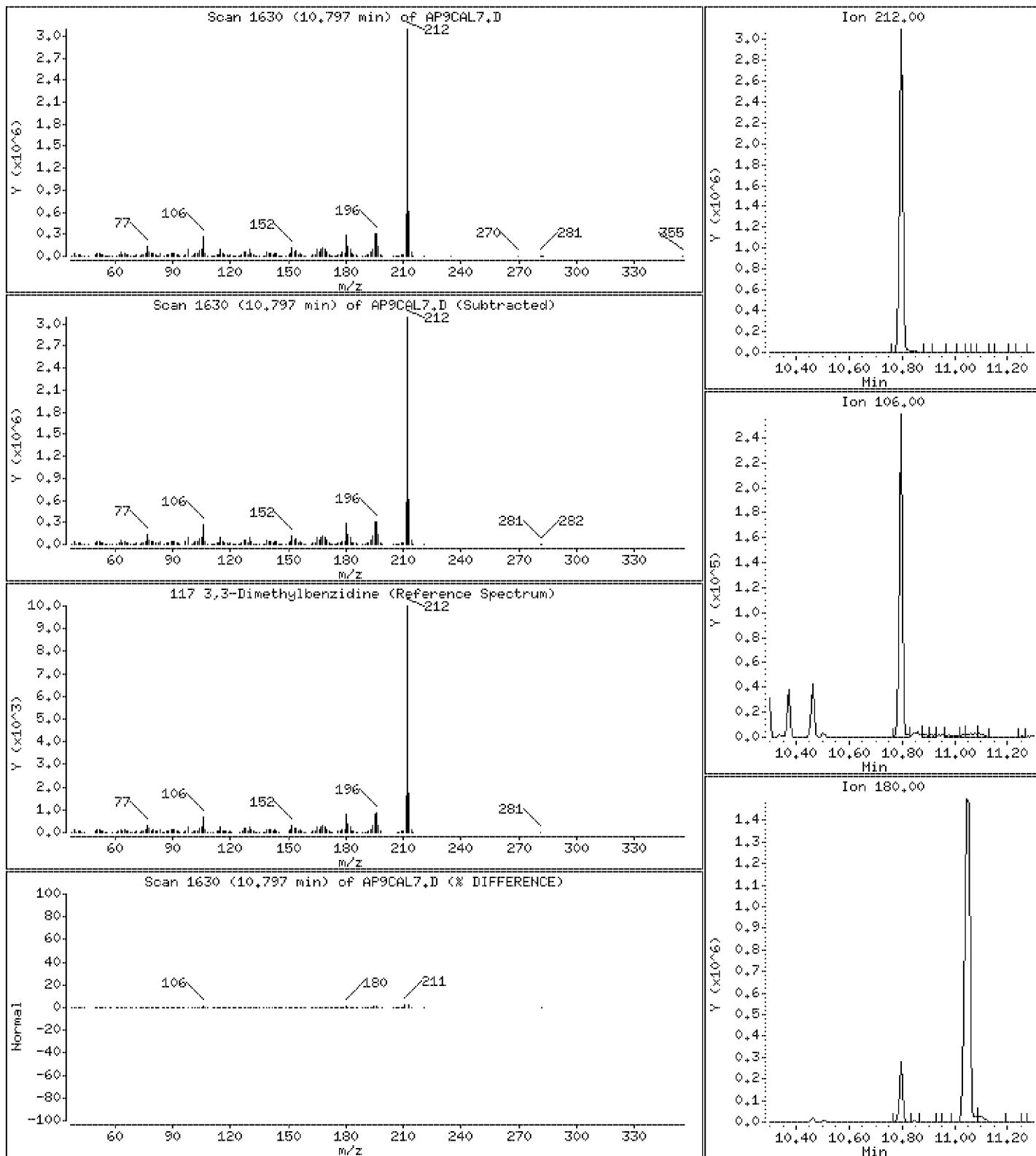
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

117 3,3-Dimethylbenzidine

Concentration: 95.0 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

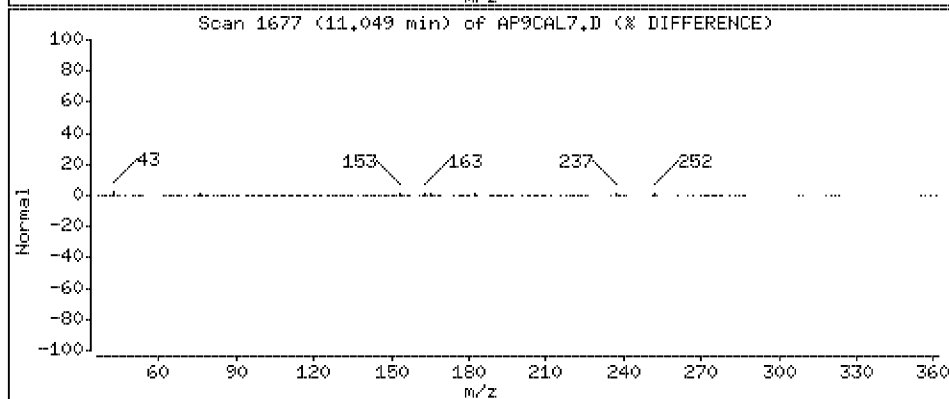
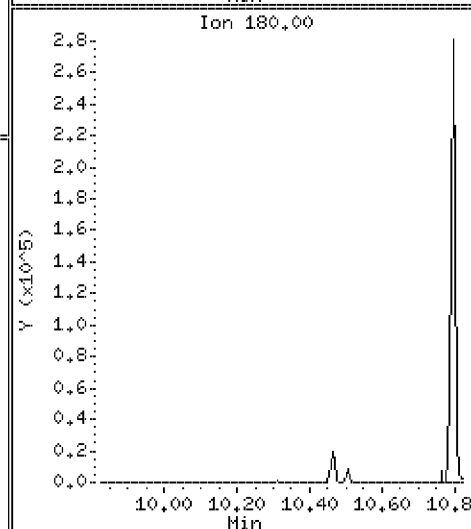
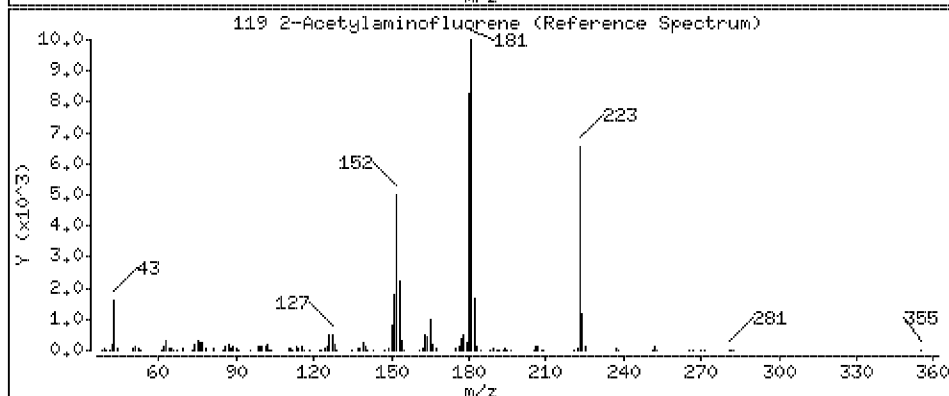
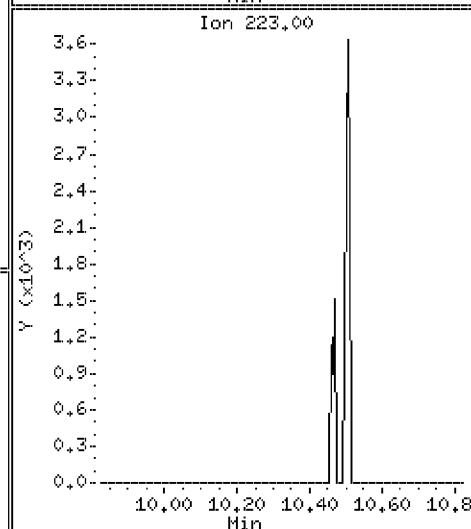
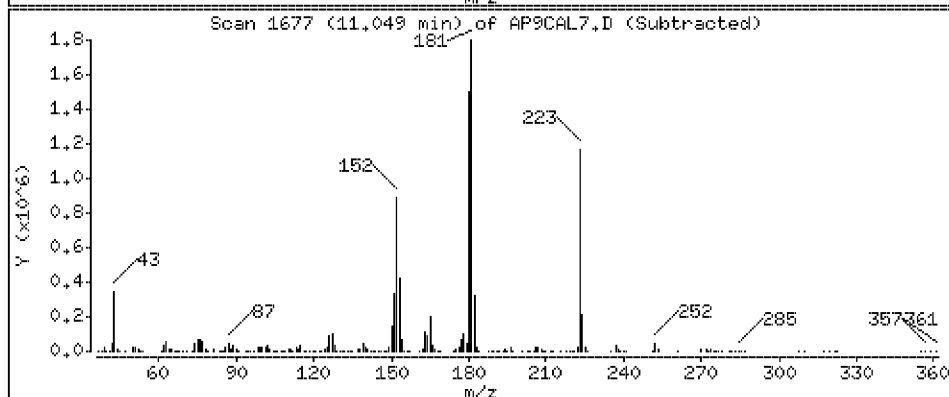
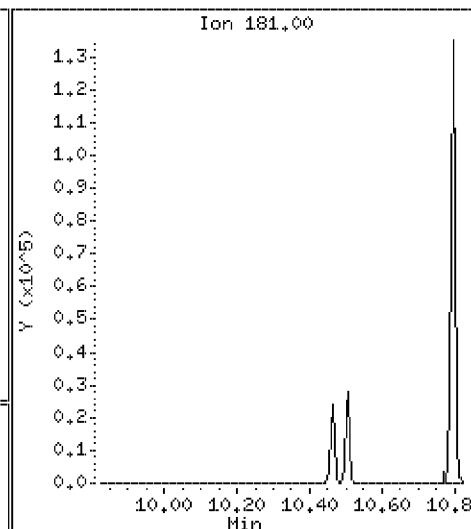
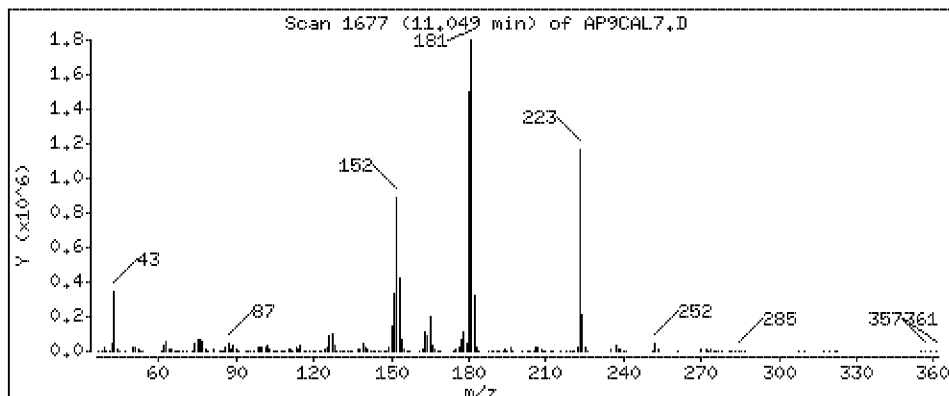
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

119 2-Acetylaminofluorene

Concentration: 119 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

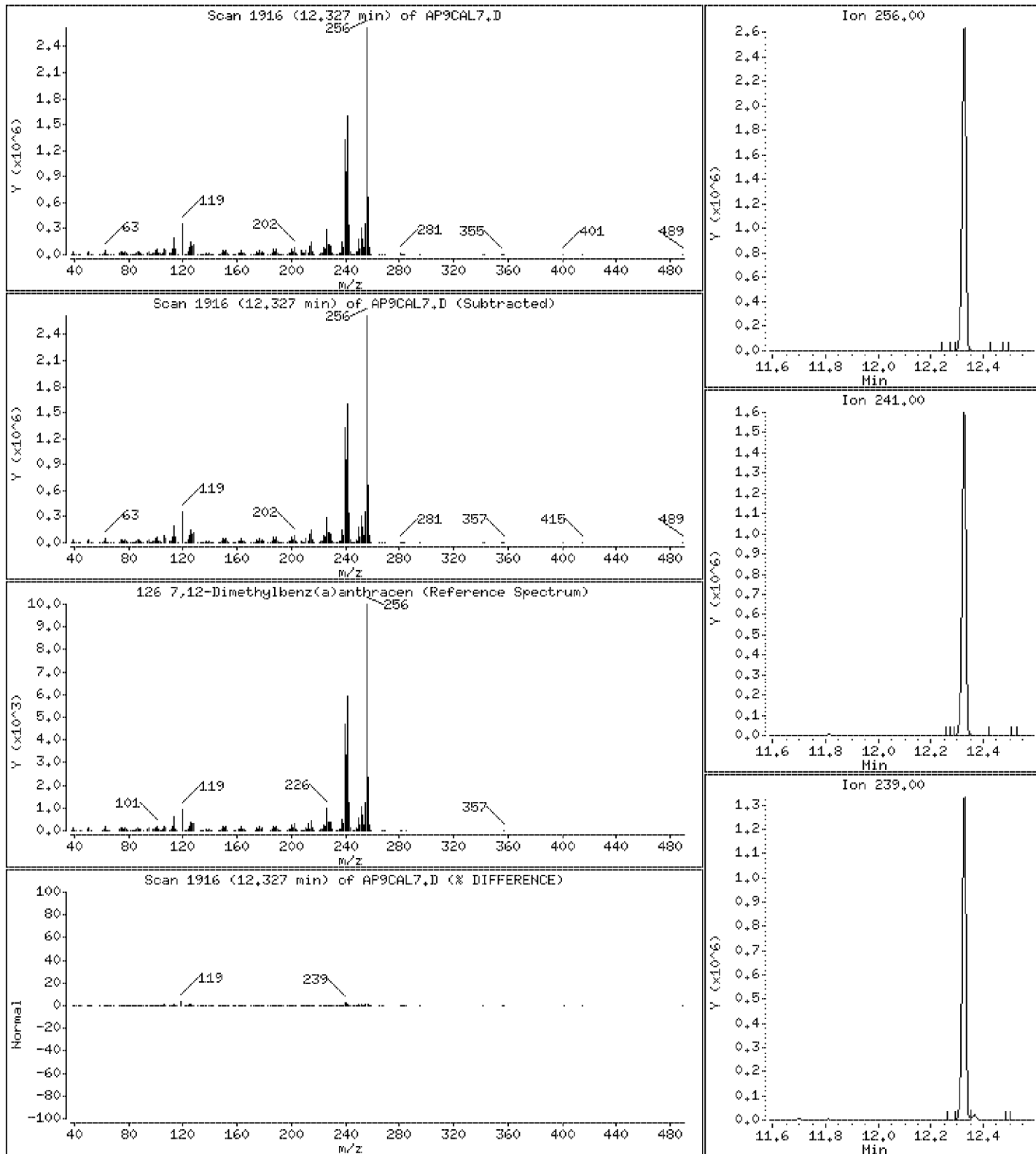
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

126 7,12-Dimethylbenz(a)anthracen

Concentration: 115 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

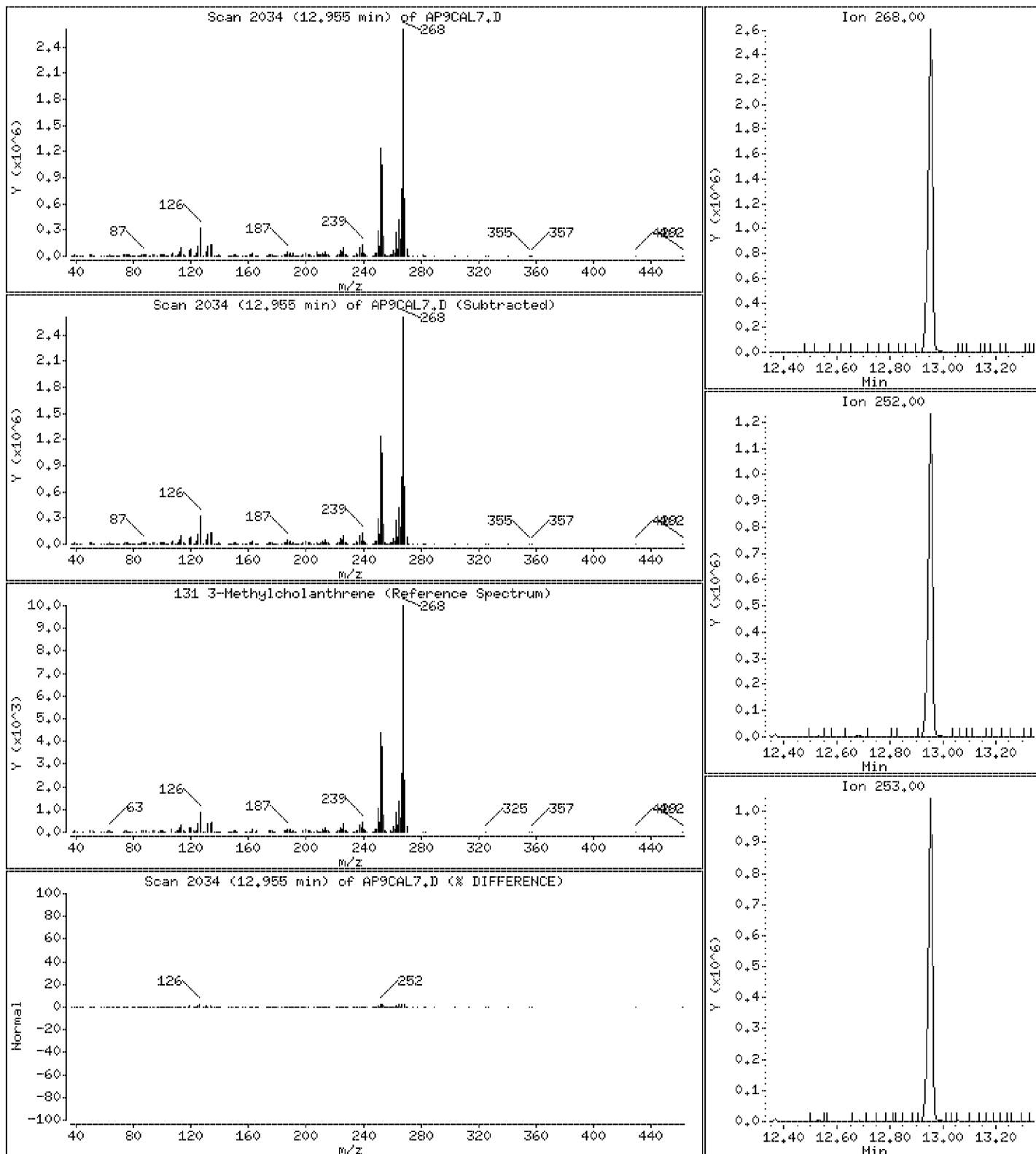
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

131 3-Methylcholanthrene

Concentration: 113 ug/l



Date : 23-APR-2012 17:06

Client ID: AP9CAL7

Instrument: smsd03.i

Sample Info: 45955

Purge Volume: 1000.0

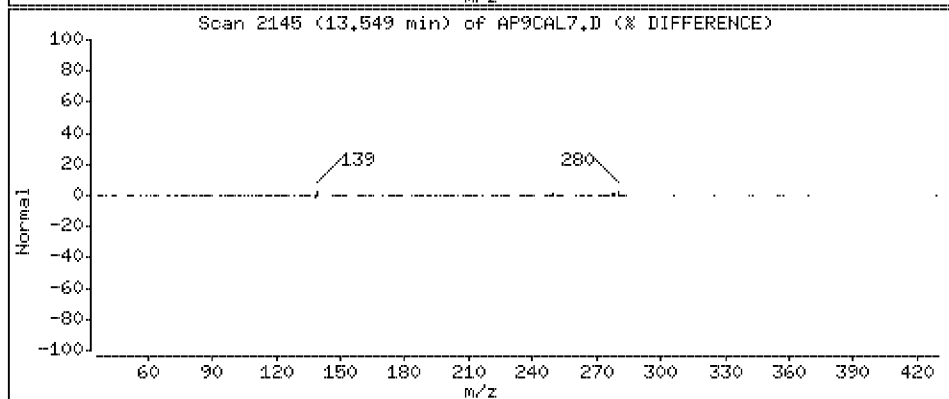
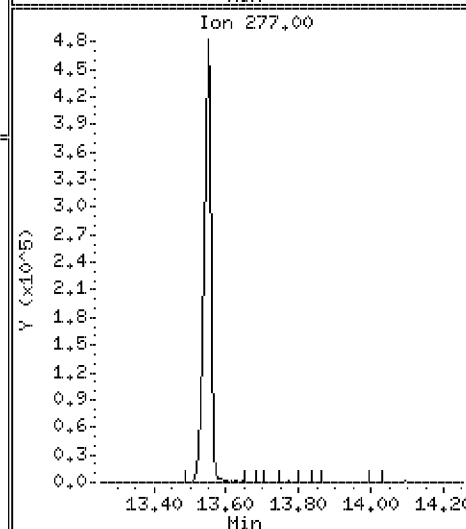
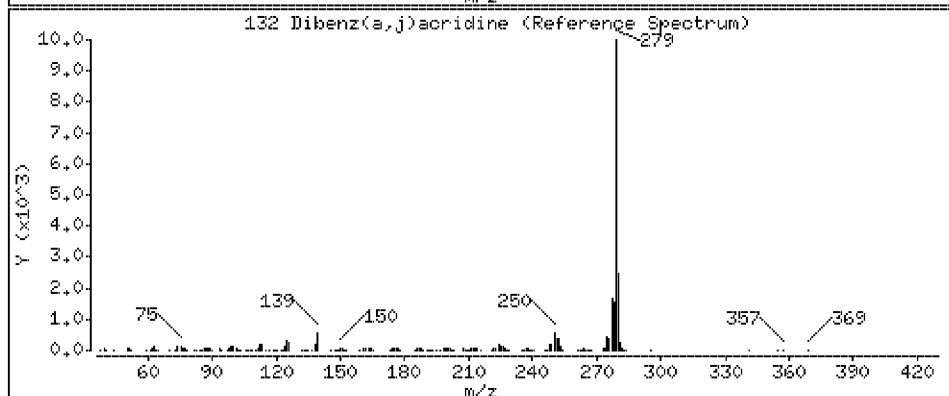
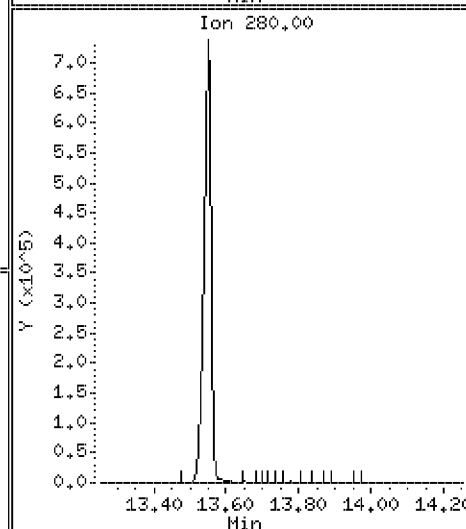
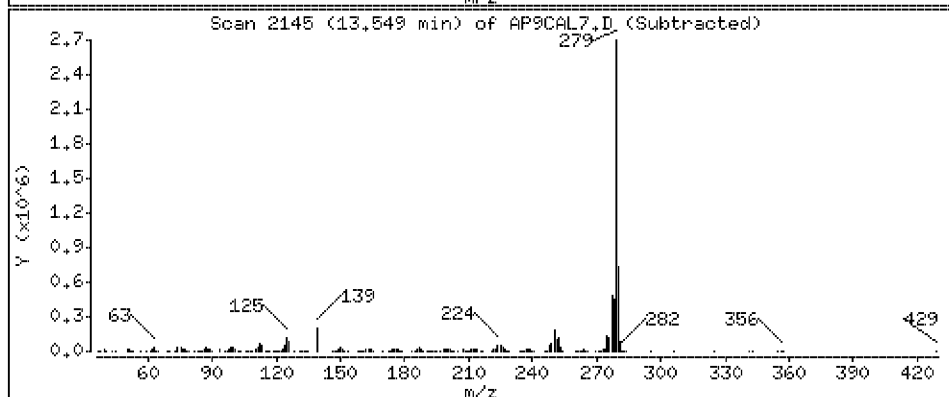
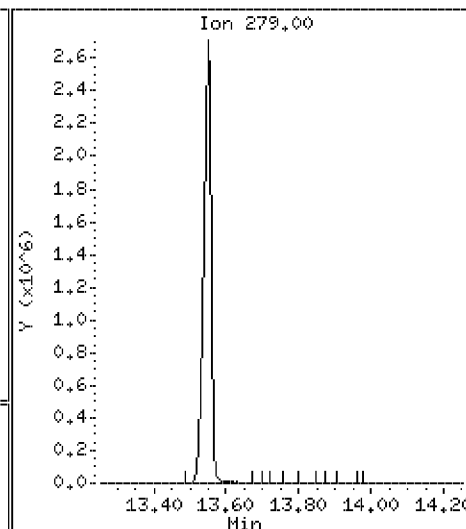
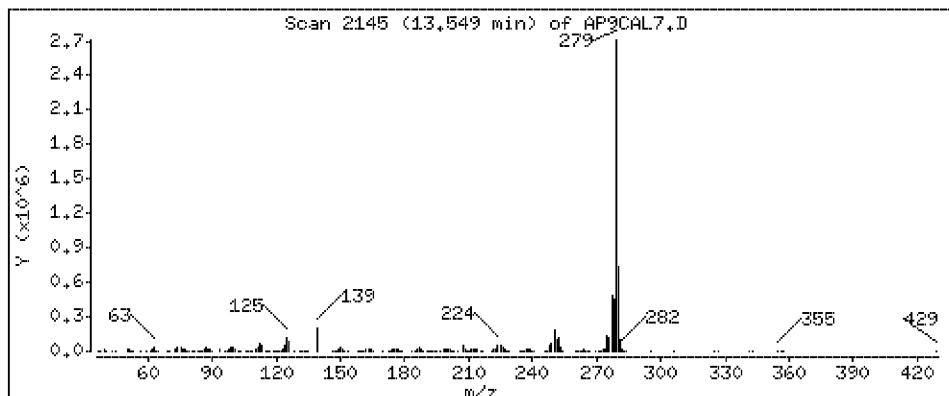
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

132 Dibenz(a,j)acridine

Concentration: 103 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3042312.b\AP9CAL6.D
 Lab Smp Id: 45956 Client Smp ID: AP9CAL6
 Inj Date : 23-APR-2012 17:30 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 45956
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270bcs.m
 Meth Date : 25-Apr-2012 09:57 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 17:30 Cal File: AP9CAL6.D
 Als bottle: 19 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ap9cal.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
3 2- Picoline CAS #: 109-06-8									
2.928	3.382 (0.658)		93	853617	75.0000	78.1	70.00- 130.00	100.00	
2.927	3.382 (0.658)		66	427971			46.98- 106.98	50.14	
2.928	3.382 (0.658)		92	215094			941.44-1001.44	25.20	
4 N-Nitrosomethylethylamine CAS #: 10595-95-6									
3.007	3.005 (0.676)		88	361010	75.0000	77.5	80.00- 120.00	100.00	
3.007	3.005 (0.676)		43	172631			16.66- 76.66	47.82	
3.006	3.005 (0.676)		42	350856			75.28- 135.28	97.19	
5 Methyl Methanesulfonate CAS #: 66-27-3									
3.242	3.383 (0.729)		80	572990	75.0000	74.4	70.00- 130.00	100.00	
3.241	3.383 (0.729)		79	342361			41.30- 101.30	59.75	
3.242	3.383 (0.729)		65	160447			390.98- 450.98	28.00	
7 N-Nitrosodiethylamine CAS #: 55-18-5									
3.553	3.383 (0.799)		102	365707	75.0000	79.2	70.00- 130.00	100.00	
3.552	3.383 (0.799)		42	247864			4947.35-5007.35	67.78	
3.553	3.383 (0.799)		57	153834			172953.97-173013.97	42.06	
8 Ethyl Methanesulfonate CAS #: 62-50-0									
3.791	4.446 (0.853)		79	618243	75.0000	77.3	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
8 Ethyl Methanesulfonate (continued)									
3.791	4.446	(0.853)	109	321095			103.08- 163.08	51.94	
3.791	4.446	(0.853)	97	114776			71.09- 131.09	18.56	

12 Pentachloroethane CAS #: 76-01-7									
4.208	4.207	(0.946)	167	357642	75.0000	78.4	80.00- 120.00	100.00	
4.207	4.207	(0.946)	117	254013			42.54- 102.54	71.02	
4.208	4.207	(0.946)	130	156307			11.81- 71.81	43.70	

* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.447	4.448	(1.000)	152	298462	40.0000		80.00- 120.00	100.00	
4.446	4.448	(1.000)	115	187559			32.20- 92.20	62.84	
4.447	4.448	(1.000)	150	453528			139.77- 199.77	151.96	

24 N-Nitrosopyrrolidine CAS #: 930-55-2									
4.793	4.944	(1.078)	100	397160	75.0000	81.6	70.00- 130.00	100.00	
4.792	4.944	(1.078)	41	260938			349.38- 409.38	65.70	
4.792	4.944	(1.078)	42	230668			7836.39-7896.39	58.08	

25 Acetophenone CAS #: 98-86-2									
4.803	4.807	(0.856)	105	1116279	75.0000	79.7	70.00- 130.00	100.00	
4.803	4.807	(0.856)	77	1108339			4410.01-4470.01	99.29	
4.802	4.807	(0.856)	51	292765			1262.06-1322.06	26.23	

27 N-Nitrosomorpholine CAS #: 59-89-2									
4.822	4.446	(1.084)	56	387282	75.0000	77.7	70.00- 130.00	100.00	
4.823	4.446	(1.084)	116	143494			116.25- 176.25	37.05	
4.822	4.446	(1.084)	86	272657			171.65- 231.65	70.40	

29 o-Toluidine CAS #: 95-53-4									
4.839	4.814	(1.088)	106	1245188	75.0000	78.4	70.00- 130.00	100.00	
4.839	4.814	(1.088)	77	302168			36058.41-36118.41	24.27	
4.839	4.814	(1.088)	107	937917			76505.71-76565.71	75.32	

33 N-Nitrosopiperidine CAS #: 100-75-4									
5.098	4.798	(0.909)	114	339363	75.0000	79.7	70.00- 130.00	100.00	
5.097	4.798	(0.909)	42	388210			3934.42-3994.42	114.39	
5.097	4.798	(0.909)	55	198687			491.51- 551.51	58.55	

37 o,o,o-Triethylphosphorothioate CAS #: 126-68-1									
5.339	5.338	(1.201)	198	576170	75.0000	80.3	80.00- 120.00	100.00	
5.338	5.338	(1.200)	97	382053			34.93- 94.93	66.31	
5.338	5.338	(1.200)	65	303332			24.79- 84.79	52.65	

39 a,a-Dimethylphenethylamine CAS #: 122-09-8									
5.442	5.370	(0.970)	58	1192662	75.0000	79.9	70.00- 130.00	100.00(M)	
5.443	5.370	(0.971)	91	364994			64.34- 124.34	30.60	
5.443	5.370	(0.971)	65	218047			12409.05-12469.05	18.28	

* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.608	5.610	(1.000)	136	979519	40.0000		80.00- 120.00	100.00	
5.608	5.610	(1.000)	68	54365			0.00- 35.51	5.55	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
====	=====	=====	=====	=====	=====	=====	=====	=====
46 2,6-Dichlorophenol					CAS #: 87-65-0			
5.694	5.691	(1.015)	162	664341	75.0000	81.0	70.00- 130.00	100.00
5.693	5.691	(1.015)	63	498230			8424.37-8484.37	75.00
5.694	5.691	(1.015)	98	183058			164.07- 224.07	27.55

47 Hexachloropropene					CAS #: 1888-71-7			
5.714	5.712	(1.019)	213	874739	75.0000	80.2	80.00- 120.00	100.00
5.714	5.712	(1.019)	215	562495			34.61- 94.61	64.30
5.712	5.712	(1.019)	117	177240			0.00- 50.39	20.26

49 N-Nitrosodi-n-butylamine					CAS #: 924-16-3			
5.995	6.287	(1.069)	84	658793	75.0000	83.5	70.00- 130.00	100.00
5.995	6.287	(1.069)	57	377280			1288.18-1348.18	57.27
5.995	6.287	(1.069)	41	324251			66.46- 126.46	49.22

52 Isosafrole					CAS #: 120-58-1			
6.202	6.619	(1.106)	162	660423	75.0000	83.2	70.00- 130.00	100.00
6.201	6.619	(1.106)	104	477036			0.00- 46.22	72.23
6.201	6.619	(1.106)	131	312667			37.69- 97.69	47.34

56 1,2,4,5-Tetrachlorobenzene					CAS #: 95-94-3			
6.453	6.452	(0.884)	216	1018883	75.0000	80.7	80.00- 120.00	100.00
6.453	6.452	(0.884)	214	806123			48.19- 108.19	79.12
6.452	6.452	(0.883)	108	186089			0.00- 47.81	18.26

60 Safrole					CAS #: 94-59-7			
6.704	6.619	(1.195)	162	603858	75.0000	81.0	70.00- 130.00	100.00
6.703	6.619	(1.195)	104	380845			0.00- 46.22	63.07
6.703	6.619	(1.195)	77	245453			0.00- 57.00	40.65

64 1,4-Naphthoquinone					CAS #: 130-15-4			
6.933	6.642	(0.949)	158	575015	75.0000	80.7	70.00- 130.00	100.00
6.933	6.642	(0.949)	102	503947			523.56- 583.56	87.64
6.933	6.642	(0.949)	130	265442			0.00- 46.52	46.16

66 1,3-Dinitrobenzene					CAS #: 99-65-0			
7.071	7.368	(0.968)	168	273345	75.0000	81.1	70.00- 130.00	100.00
7.070	7.368	(0.968)	75	351777			98.40- 158.40	128.69
7.069	7.368	(0.968)	50	191267			177.84- 237.84	69.97

* 70 Acenaphthene-d10					CAS #: 15067-26-2			
7.304	7.305	(1.000)	164	666011	40.0000		80.00- 120.00	100.00
7.304	7.305	(1.000)	162	642348			64.73- 124.73	96.45
7.304	7.305	(1.000)	160	301315			12.46- 72.46	45.24

73 Pentachlorobenzene					CAS #: 608-93-5			
7.469	7.467	(1.023)	250	985562	75.0000	80.1	80.00- 120.00	100.00
7.469	7.467	(1.023)	252	641895			34.92- 94.92	65.13
7.467	7.467	(1.022)	108	273462			0.00- 56.94	27.75

77 1-Naphthylamine					CAS #: 134-32-7			
7.583	7.837	(1.038)	143	923187	75.0000	79.3	70.00- 130.00	100.00
7.583	7.837	(1.038)	115	510569			7143.21-7203.21	55.31

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====
77 1-Naphthylamine (continued)								
7.583	7.837	(1.038)	89	110951			2068.79-2128.79	12.02

78 2,3,4,6-Tetrachlorophenol CAS #: 58-90-2								
7.637	7.634	(1.046)	232	543945	75.0000	80.5	70.00- 130.00	100.00
7.636	7.634	(1.045)	168	147707			42.05- 102.05	27.15
7.636	7.634	(1.045)	131	231348			9.10- 69.10	42.53

79 2-Naphthylamine CAS #: 91-59-8								
7.663	7.837	(1.049)	143	1209254	75.0000	79.2	70.00- 130.00	100.00
7.663	7.837	(1.049)	115	682985			7143.21-7203.21	56.48
7.663	7.837	(1.049)	116	278588			667.96- 727.96	23.04

83 5-Nitro-ortho-toluidine CAS #: 99-55-8								
7.860	7.896	(1.076)	152	481606	75.0000	81.2	70.00- 130.00	100.00
7.860	7.896	(1.076)	106	352342			505.60- 565.60	73.16
7.859	7.896	(1.076)	77	603438			735.48- 795.48	125.30

90 1,3,5-Trinitrobenzene CAS #: 99-35-4								
8.221	8.152	(1.126)	75	1232499	75.0000	73.8	70.00- 130.00	100.00
8.221	8.152	(1.126)	74	776103			50.14- 110.14	62.97
8.223	8.152	(1.126)	213	467629			40.88- 100.88	37.94

89 Diallate CAS #: 2303-16-4								
8.231	8.081	(1.127)	86	686401	75.0000	83.0	70.00- 130.00	100.00(M)
8.231	8.081	(1.127)	43	641736			0.00- 38.70	93.49
8.236	8.081	(1.128)	234	443053			0.00- 39.00	64.55

92 Phenacetin CAS #: 62-44-2								
8.272	8.384	(0.944)	109	742694	75.0000	76.8	70.00- 130.00	100.00
8.272	8.384	(0.944)	108	861250			77.38- 137.38	115.96
8.272	8.384	(0.944)	179	503035			133.19- 193.19	67.73

91 p-Phenylenediamine CAS #: 106-50-3								
8.272	8.082	(0.944)	108	861250	75.0000	81.4	70.00- 130.00	100.00
8.272	8.082	(0.944)	80	234332			1858.68-1918.68	27.21
8.271	8.082	(0.944)	53	109603			5306.16-5366.16	12.73

97 Pentachloronitrobenzene CAS #: 82-68-8								
8.591	8.589	(0.981)	237	407646	75.0000	81.8	80.00- 120.00	100.00
8.592	8.589	(0.981)	295	158587			7.36- 67.36	38.90
8.590	8.589	(0.980)	142	279763			42.99- 102.99	68.63

98 4-Aminobiphenyl CAS #: 92-67-1								
8.579	8.584	(0.979)	169	1845690	75.0000	77.0	70.00- 130.00	100.00
8.579	8.584	(0.979)	168	420391			0.00- 49.63	22.78
8.578	8.584	(0.979)	115	226304			0.00- 40.98	12.26

99 Pronamide CAS #: 23950-58-5								
8.636	8.781	(0.986)	173	941452	75.0000	79.0	70.00- 130.00	100.00
8.636	8.781	(0.986)	175	616130			2051.90-2111.90	65.44
8.636	8.781	(0.986)	145	374075			63.94- 123.94	39.73

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 100 Phenanthrene-d10					CAS #: 1517-22-2				
8.761	8.761	(1.000)	188	1387353	40.0000		80.00- 120.00	100.00	
8.760	8.761	(1.000)	94	92158			0.00- 36.35	6.64	
8.760	8.761	(1.000)	80	124028			0.00- 37.82	8.94	

102 Dinoseb					CAS #: 88-85-7				
8.756	8.753	(0.999)	211	610967	75.0000	74.9	80.00- 120.00	100.00	
8.756	8.753	(0.999)	163	234938			7.77- 67.77	38.45	
8.755	8.753	(0.999)	117	132630			0.00- 52.05	21.71	

106 4-Nitroquinoline-1-oxide					CAS #: 56-57-5				
9.545	9.334	(1.089)	174	21770	75.0000	76.9	70.00- 130.00	100.00(Q)	
9.546	9.334	(1.090)	128	45845			429.24- 489.24	210.59	
9.547	9.334	(1.090)	101	83640			988.96-1048.96	384.20	

107 Methapyrilene					CAS #: 91-80-5				
9.611	10.322	(1.097)	97	36707	75.0000	79.0	70.00- 130.00	100.00	
9.611	10.322	(1.097)	58	39652			11.52- 71.52	108.02	
9.611	10.322	(1.097)	191	5345			0.00- 52.18	14.56	

108 Isodrin					CAS #: 465-73-6				
9.803	10.279	(1.119)	193	325901	75.0000	77.1	70.00- 130.00	100.00	
9.801	10.279	(1.119)	66	283159			17952.44-18012.44	86.88	
9.803	10.279	(1.119)	195	279501			1135.23-1195.23	85.76	

113 Aramite					CAS #: 140-57-8				
10.373	10.370	(0.914)	185	306934	75.0000	80.8	80.00- 120.00	100.00(M)	
10.373	10.370	(0.914)	191	153193			21.78- 81.78	49.91	
10.298	10.370	(0.907)	319	109139			6.67- 66.67	35.56	

114 p-Dimethylamino azobenzene					CAS #: 60-11-7				
10.463	10.323	(0.922)	225	780185	75.0000	83.4	70.00- 130.00	100.00	
10.462	10.323	(0.921)	120	727454			99.50- 159.50	93.24	
10.462	10.323	(0.921)	77	766758			9.48- 69.48	98.28	

115 Chlorobenzilate					CAS #: 510-15-6				
10.506	10.503	(0.925)	251	1219311	75.0000	84.3	80.00- 120.00	100.00	
10.506	10.503	(0.925)	253	799341			35.78- 95.78	65.56	
10.504	10.503	(0.925)	139	1096575			60.72- 120.72	89.93	

116 Kepone					CAS #: 143-50-0				
10.848	10.840	(0.955)	272	199377	75.0000	80.5	80.00- 120.00	100.00(QM)	
10.848	10.840	(0.955)	274	156171			51.74- 111.74	78.33	
10.843	10.840	(0.955)	237	200246			0.00- 59.52	100.44	

117 3,3-Dimethylbenzidine					CAS #: 119-93-7				
10.795	10.799	(0.951)	212	2170075	75.0000	76.3	70.00- 130.00	100.00	
10.794	10.799	(0.951)	106	156020			2299.94-2359.94	7.19	
10.794	10.799	(0.951)	180	173859			6.44- 66.44	8.01	

119 2-Acetylaminofluorene					CAS #: 53-96-3				
11.046	10.324	(0.973)	181	1387253	75.0000	84.6	70.00- 130.00	100.00	
11.046	10.324	(0.973)	223	912020			491.83- 551.83	65.74	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
119 2-Acetylaminofluorene (continued)									
11.046	10.324	(0.973)	180	1215555			639.65- 699.65	87.62	

* 121 Chrysene-d12 CAS #: 1719-03-5									
11.354	11.359	(1.000)	240	1590626	40.0000		80.00- 120.00	100.00	
11.352	11.359	(1.000)	120	85425			0.00- 36.38	5.37	
11.354	11.359	(1.000)	236	418850			0.00- 57.06	26.33	

126 7,12-Dimethylbenz(a)anthracen CAS #: 57-97-6									
12.325	12.088	(0.972)	256	1901905	75.0000	83.6	70.00- 130.00	100.00	
12.325	12.088	(0.972)	241	1084137			77.87- 137.87	57.00	
12.324	12.088	(0.972)	239	890716			73.24- 133.24	46.83	

* 130 Perylene-d12 CAS #: 1520-96-3									
12.680	12.682	(1.000)	264	1597995	40.0000		80.00- 120.00	100.00	
12.680	12.682	(1.000)	260	391800			0.00- 54.80	24.52	
12.680	12.682	(1.000)	265	363600			0.00- 53.39	22.75	

131 3-Methylcholanthrene CAS #: 56-49-5									
12.951	12.847	(1.021)	268	2039957	75.0000	79.6	70.00- 130.00	100.00	
12.952	12.847	(1.021)	252	920975			13.23- 73.23	45.15	
12.952	12.847	(1.021)	253	794709			6.61- 66.61	38.96	

132 Dibenz(a,j)acridine CAS #: 224-42-0									
13.545	13.755	(1.068)	279	2857565	75.0000	77.5	70.00- 130.00	100.00	
13.545	13.755	(1.068)	280	710481			0.00- 41.79	24.86	
13.545	13.755	(1.068)	277	466300			93.47- 153.47	16.32	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
 M - Compound response manually integrated.

Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

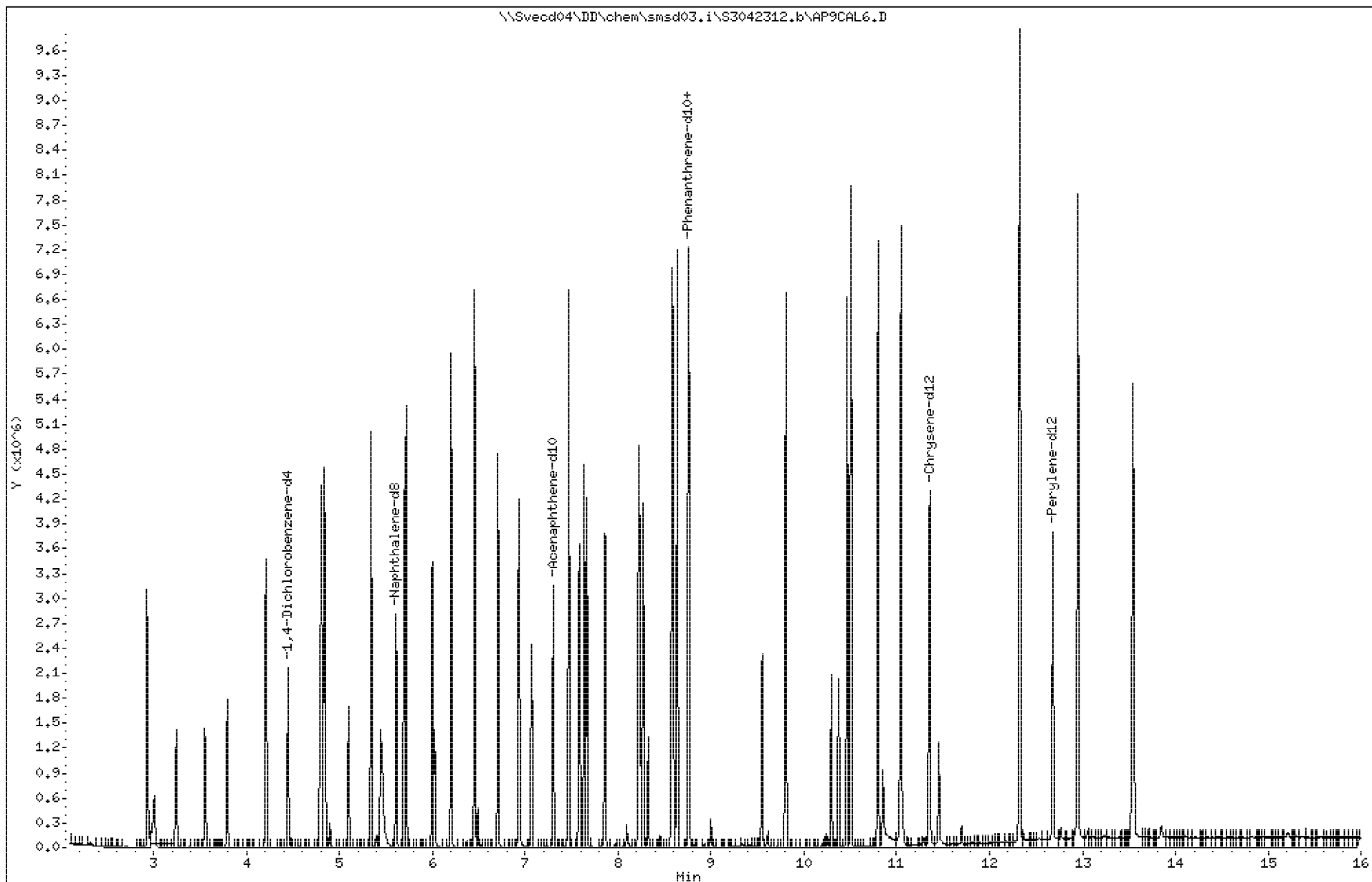
Sample Info: 45956

Operator: PEL

Purge Volume: 1000.0

Column diameter: 0.25

Column phase: HPMS-5



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

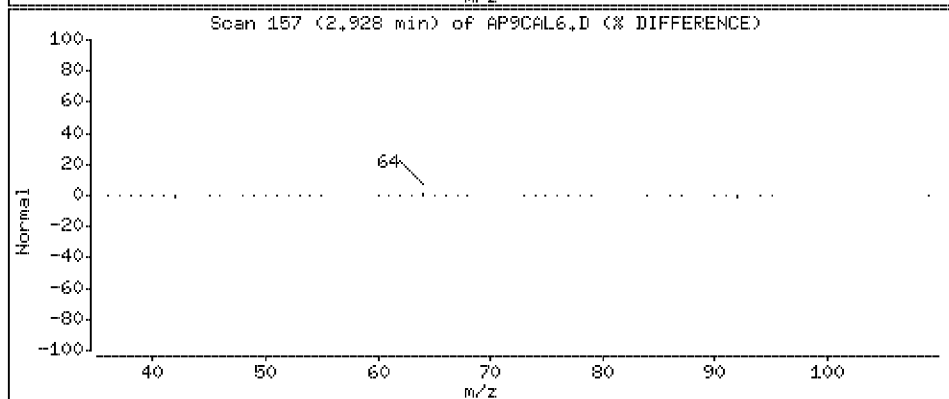
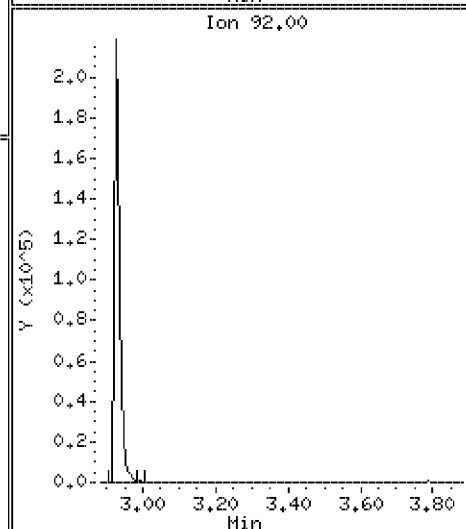
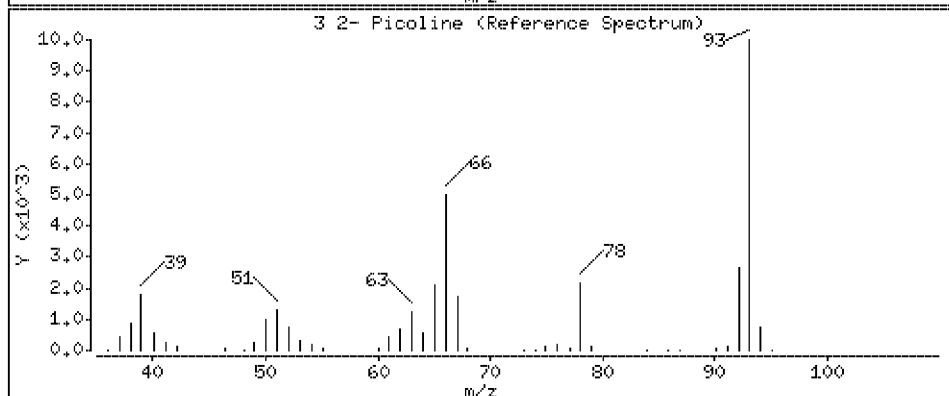
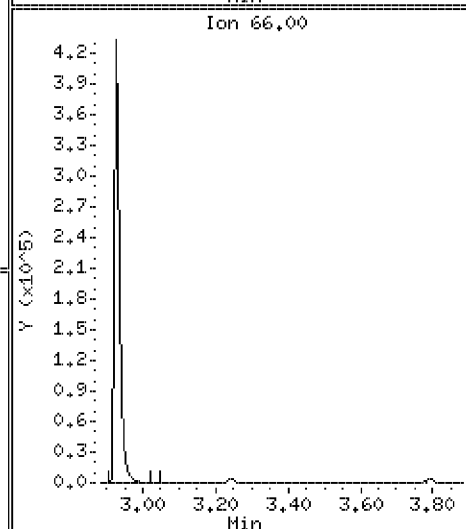
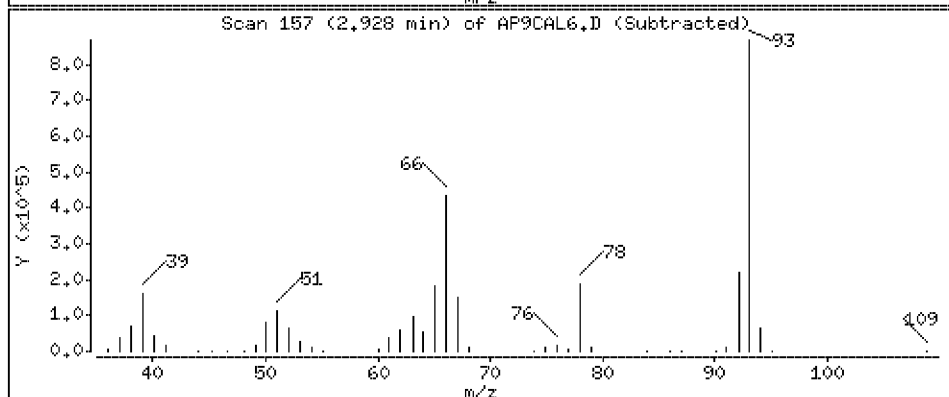
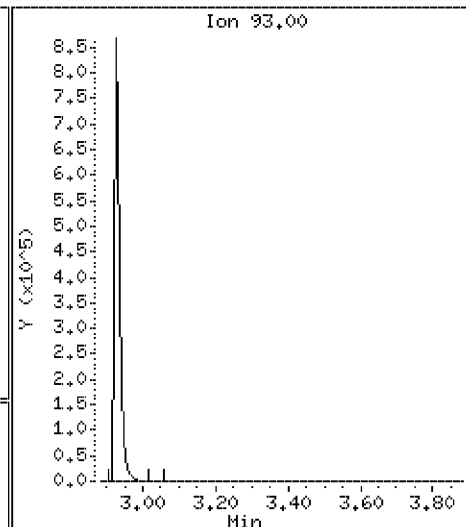
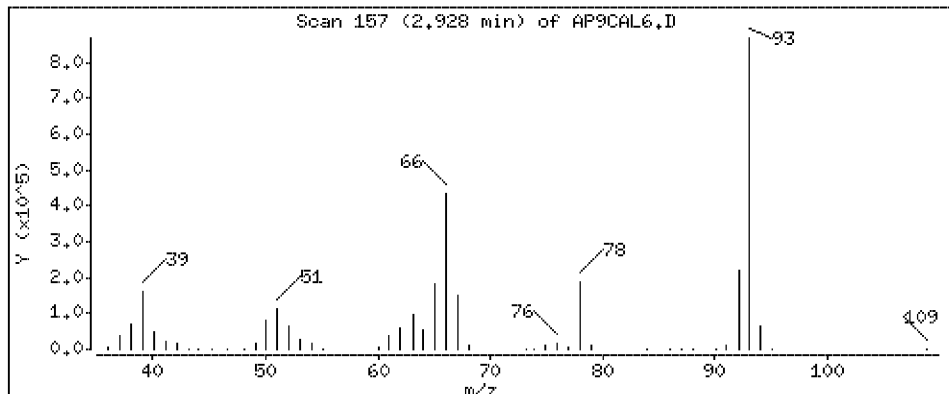
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

3 2- Picoline

Concentration: 78.1 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

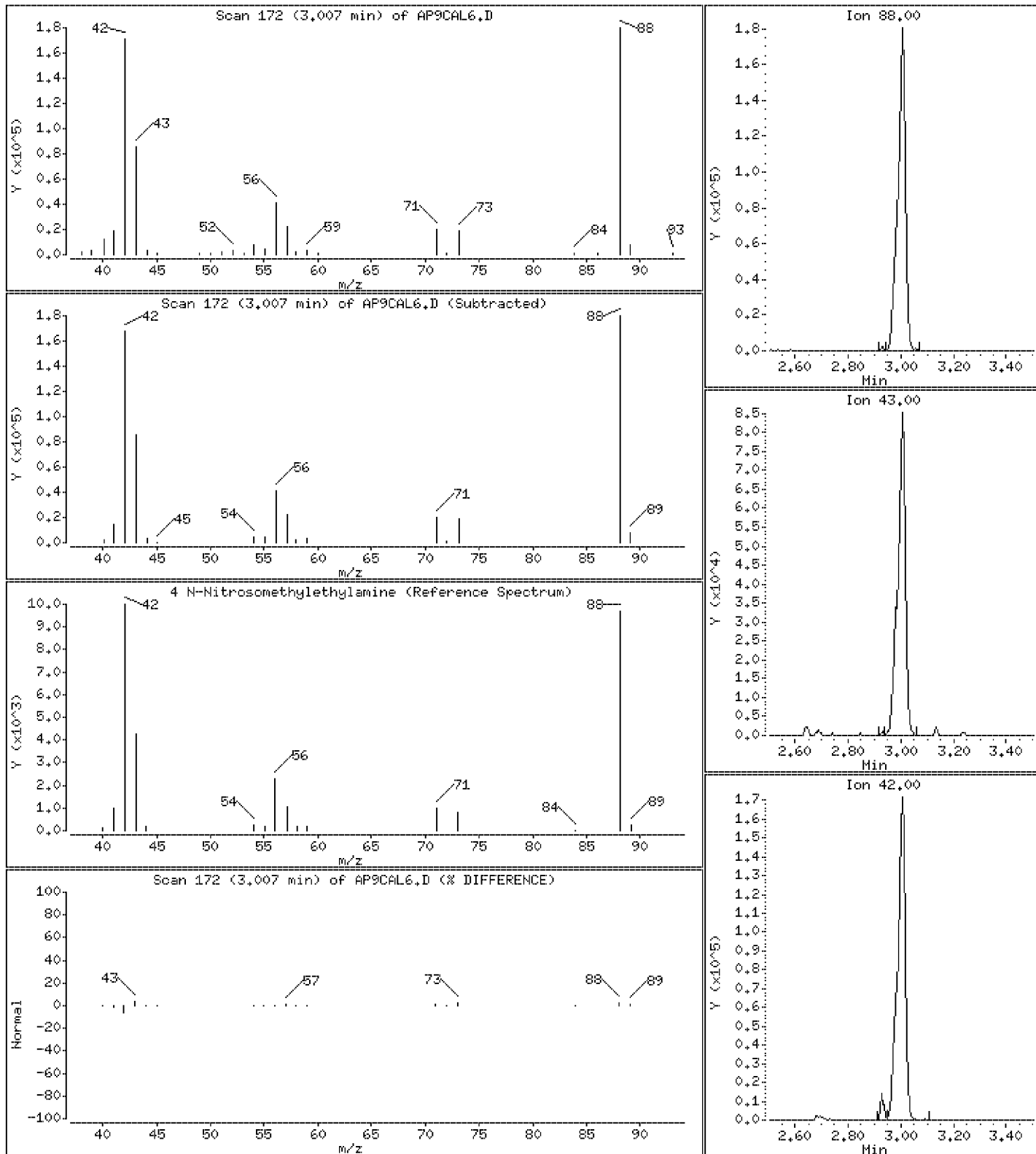
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

4 N-Nitrosomethylethylamine

Concentration: 77.5 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

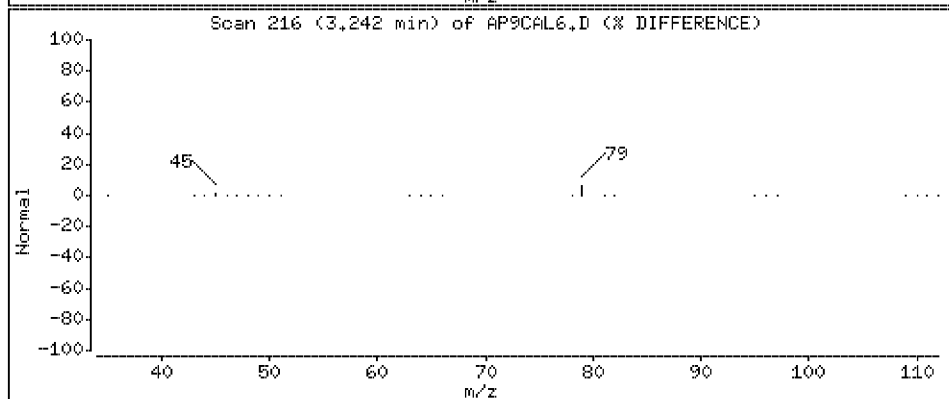
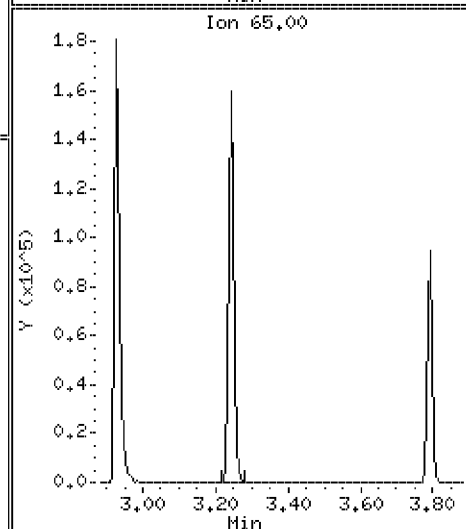
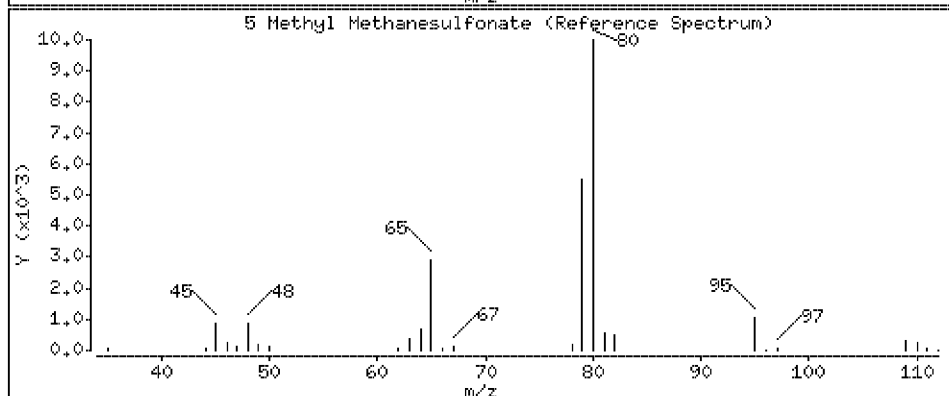
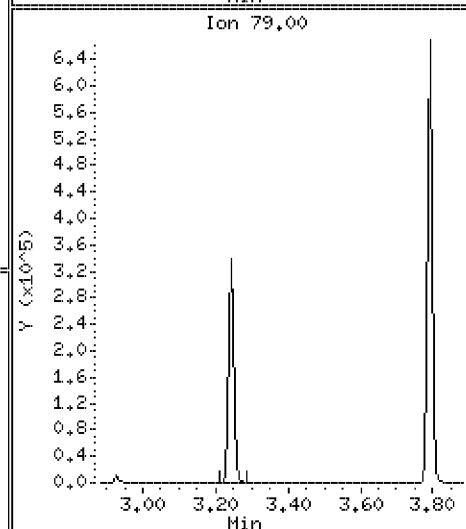
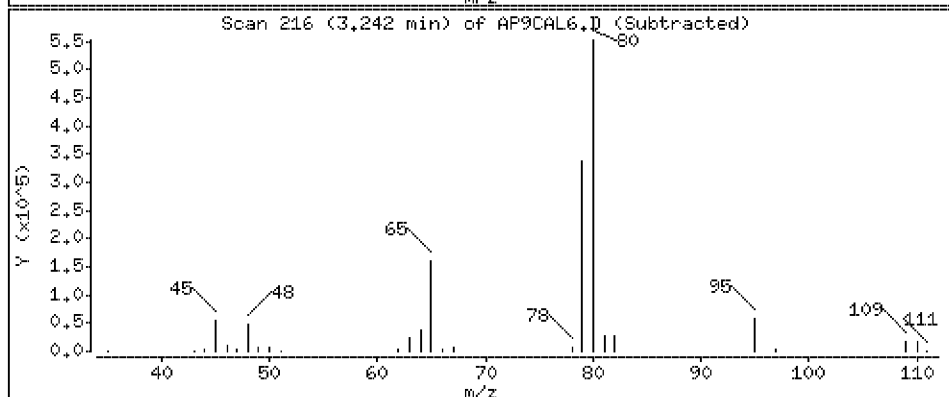
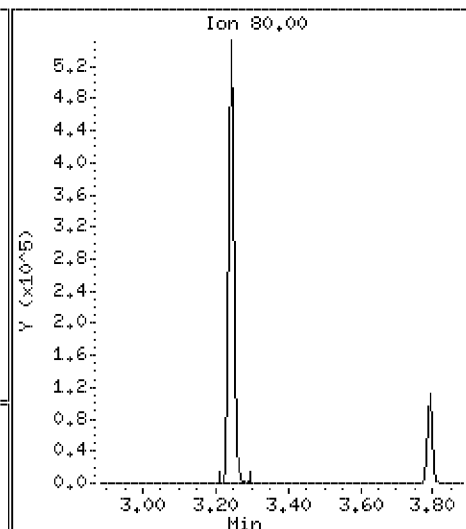
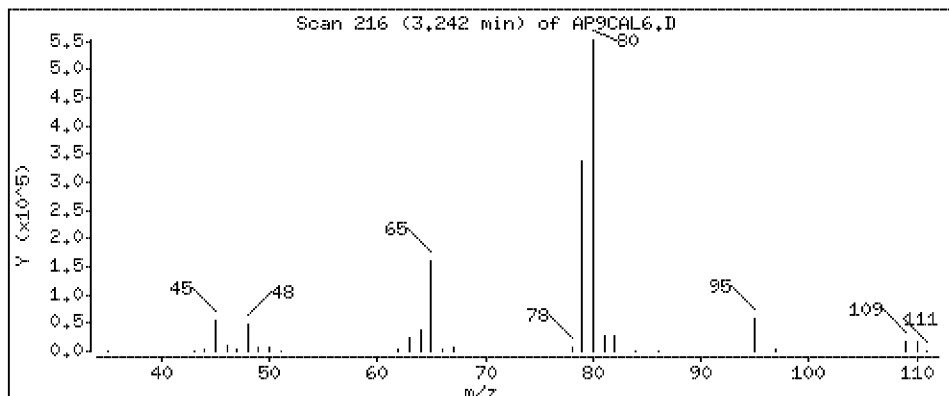
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

5 Methyl Methanesulfonate

Concentration: 74.4 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

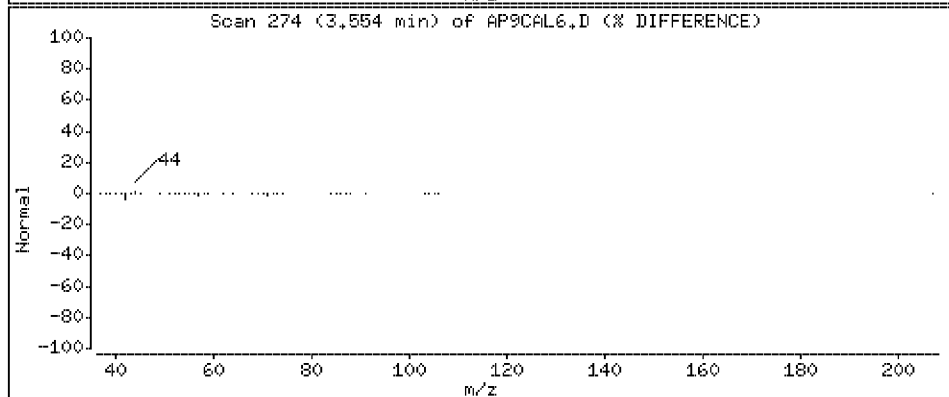
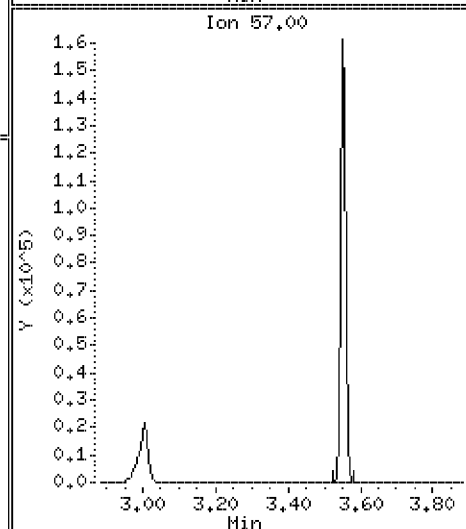
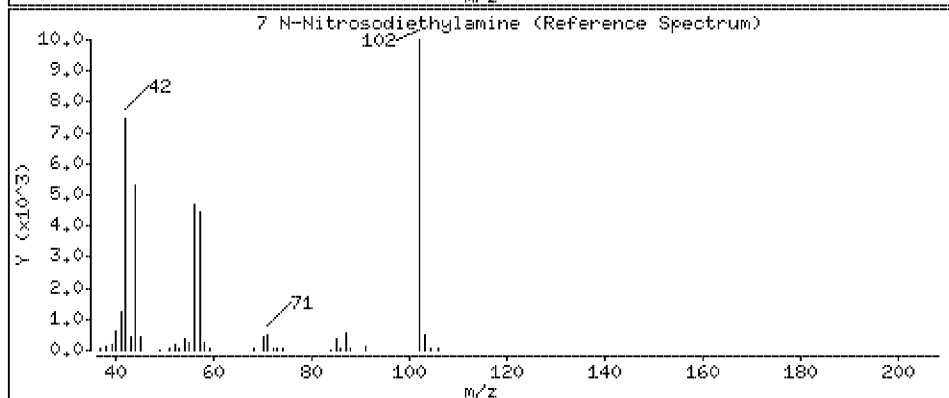
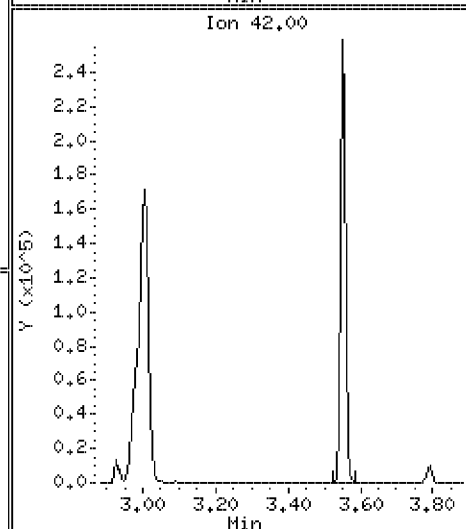
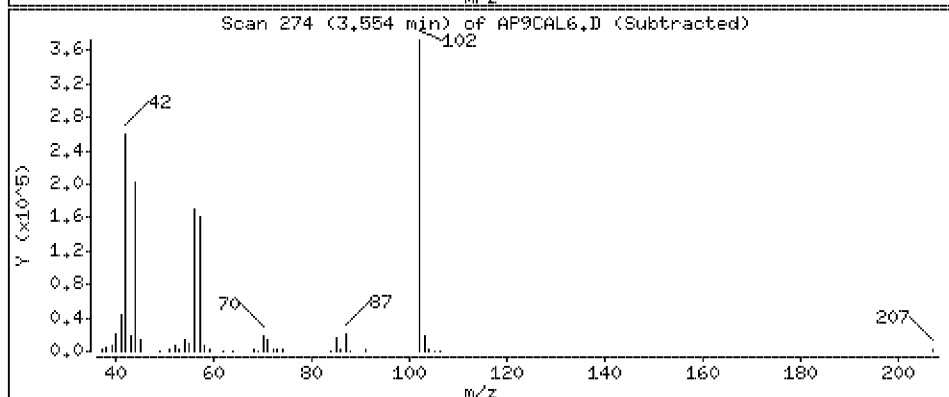
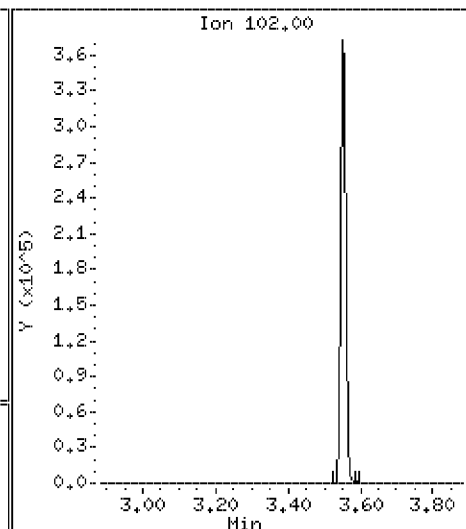
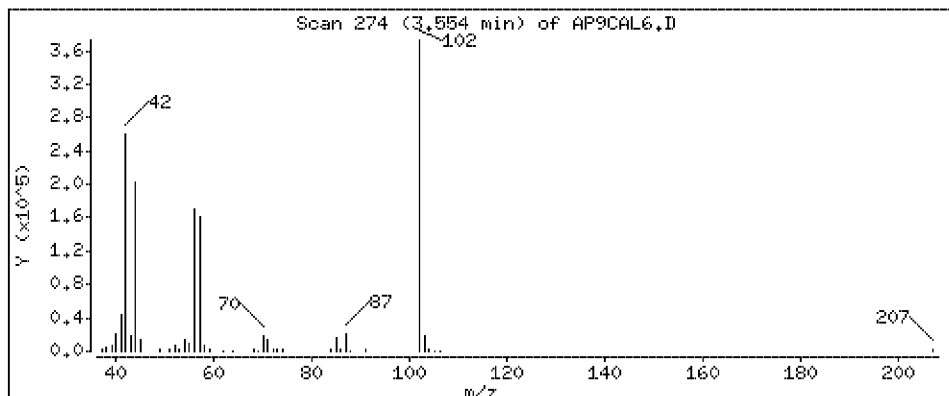
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

7 N-Nitrosodiethylamine

Concentration: 79.2 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

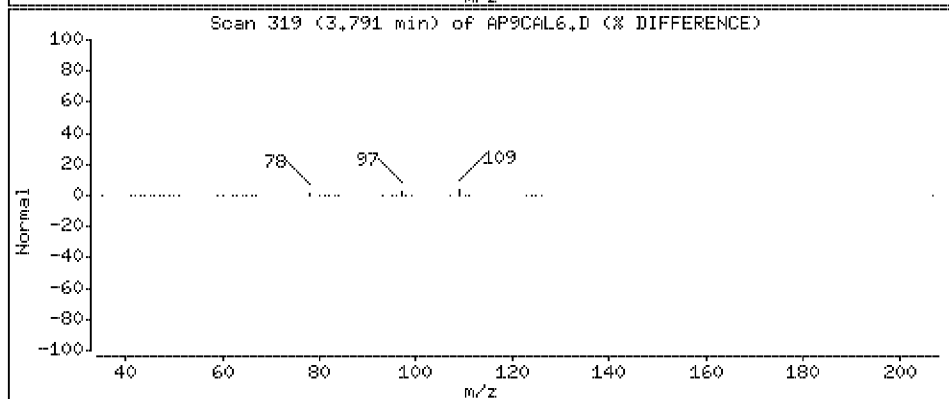
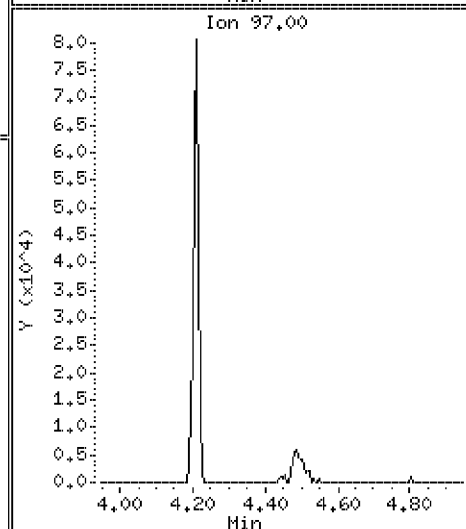
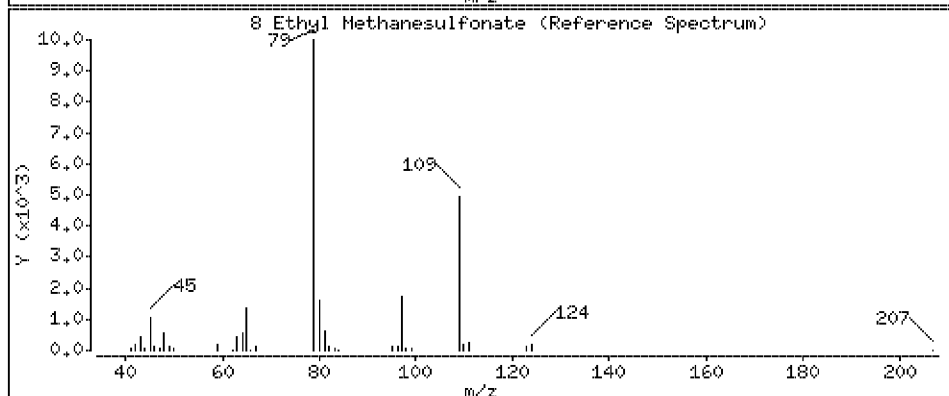
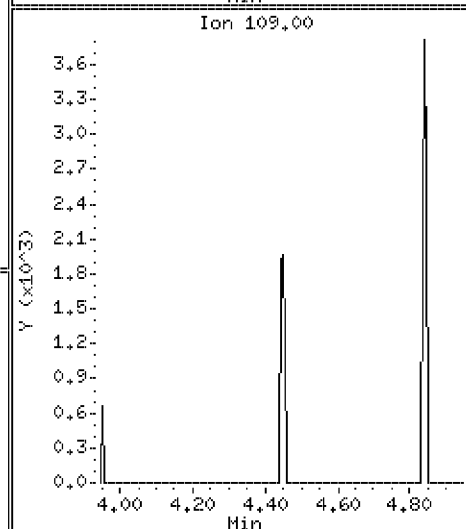
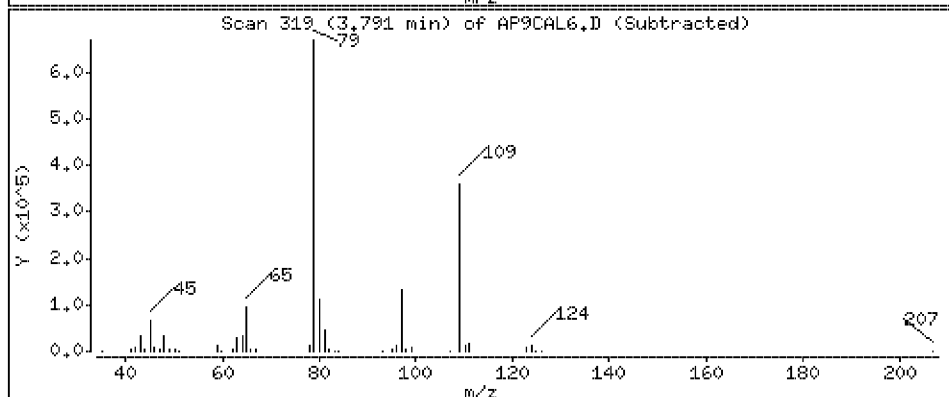
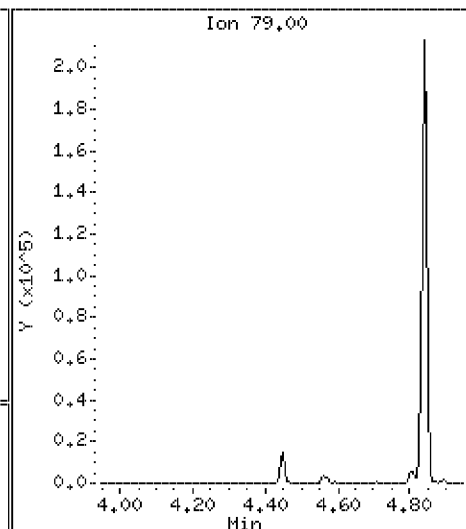
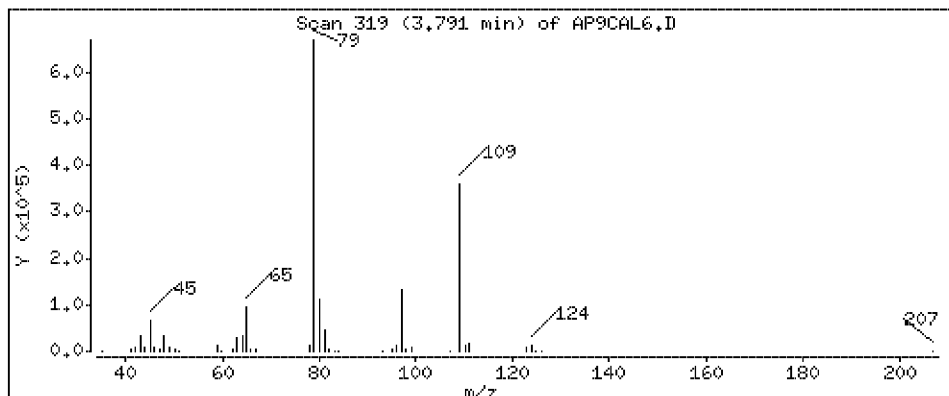
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

8 Ethyl Methanesulfonate

Concentration: 77.3 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

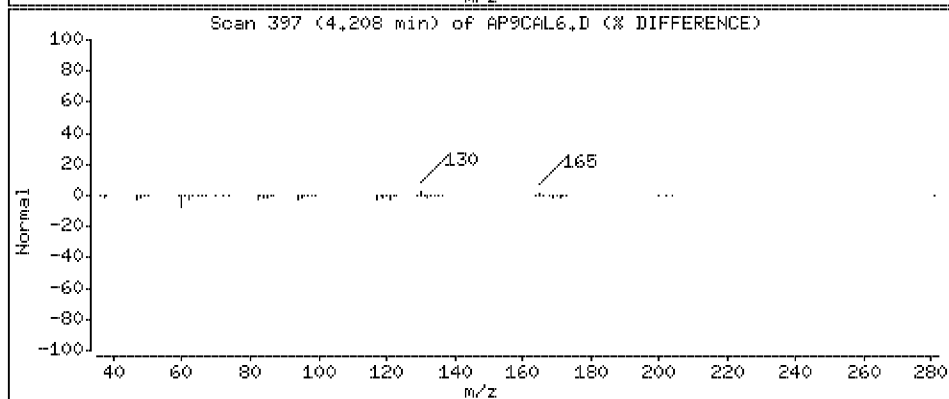
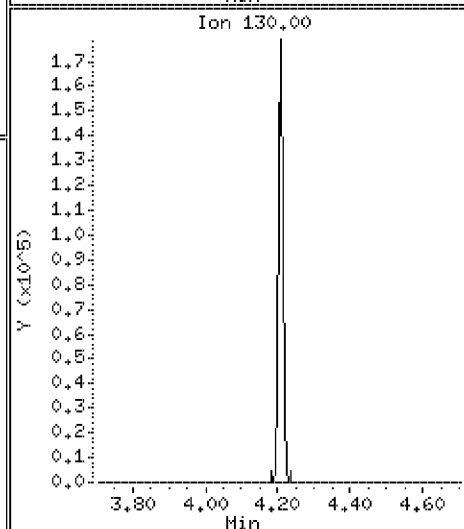
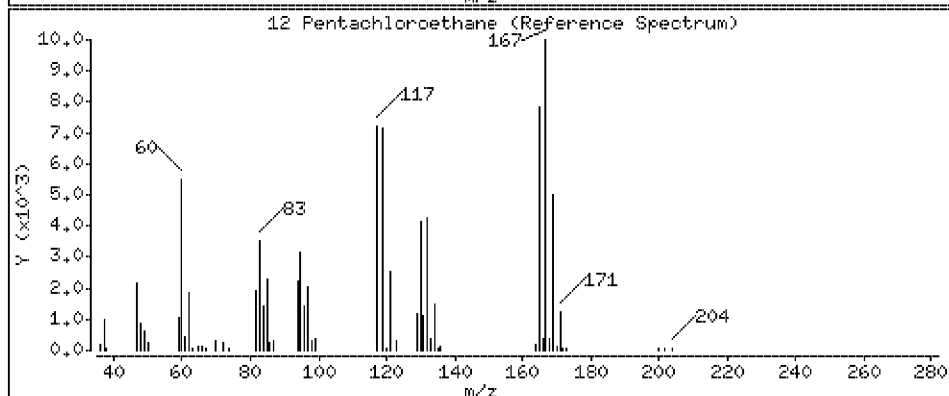
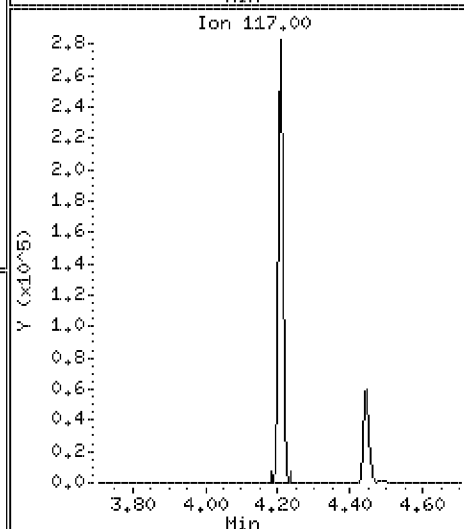
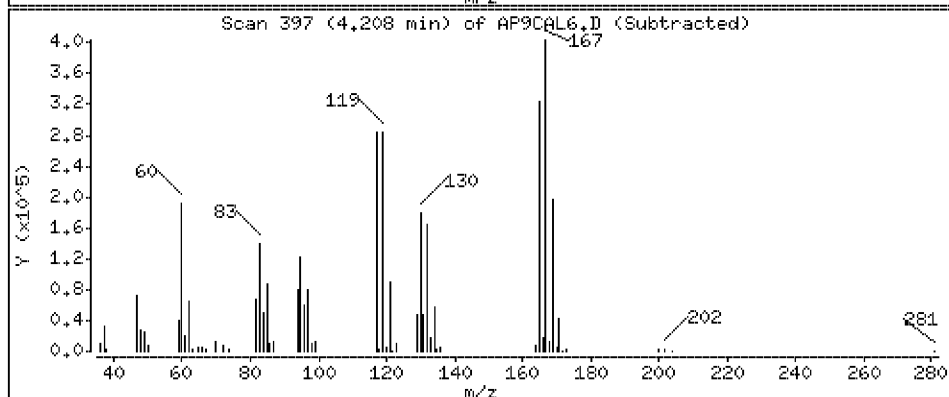
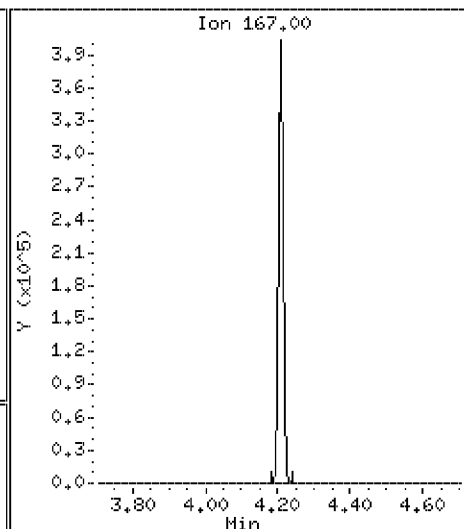
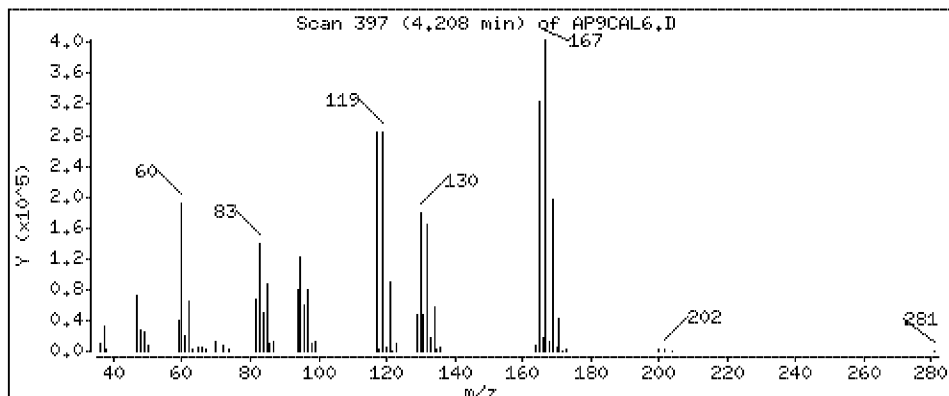
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

12 Pentachloroethane

Concentration: 78.4 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

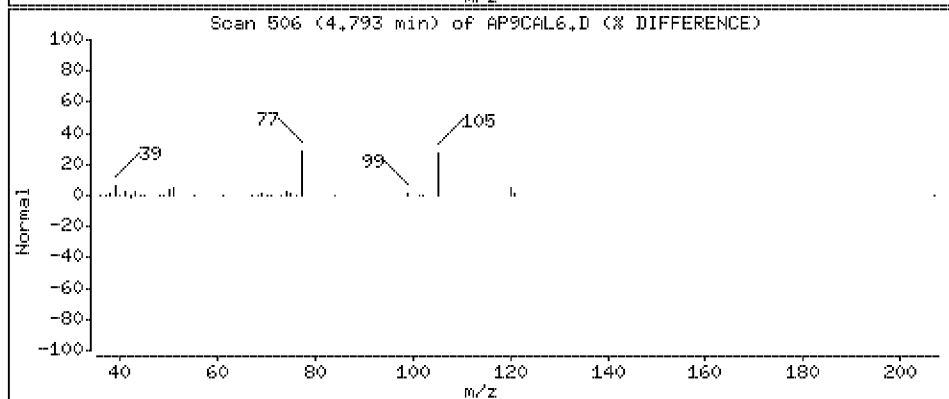
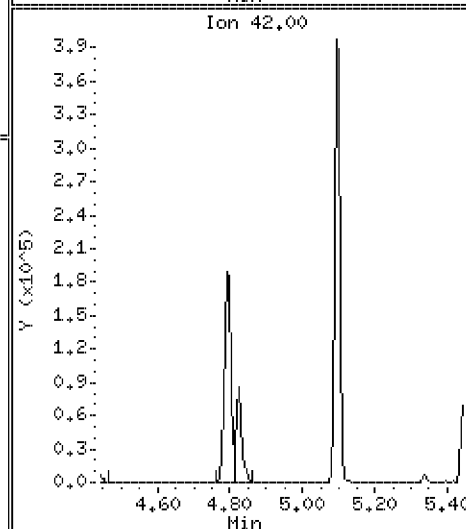
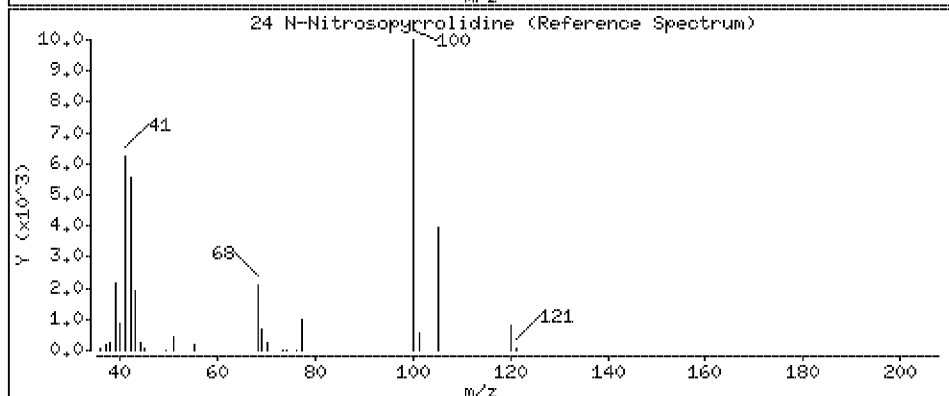
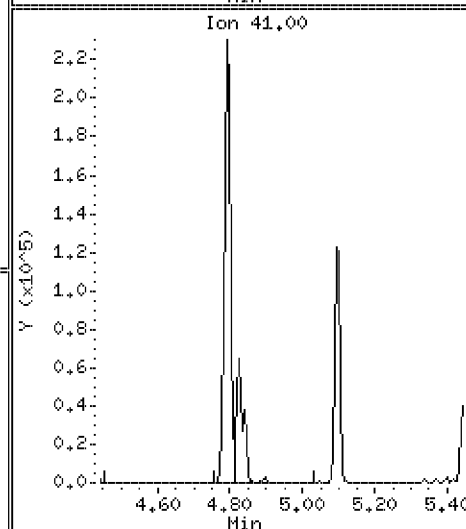
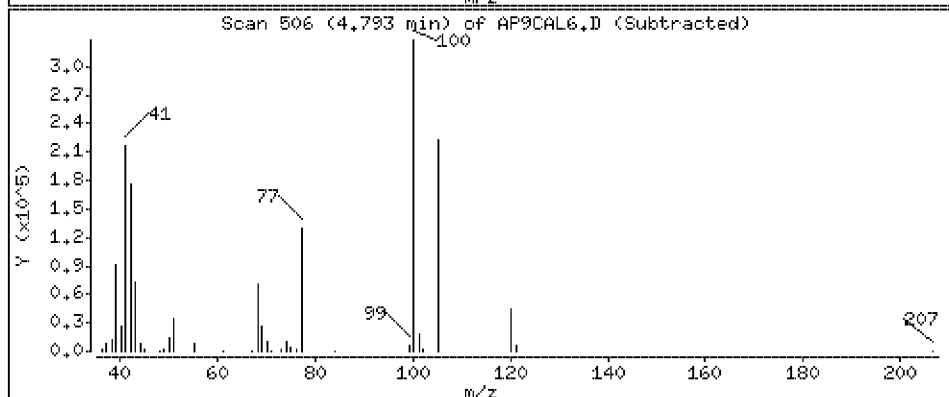
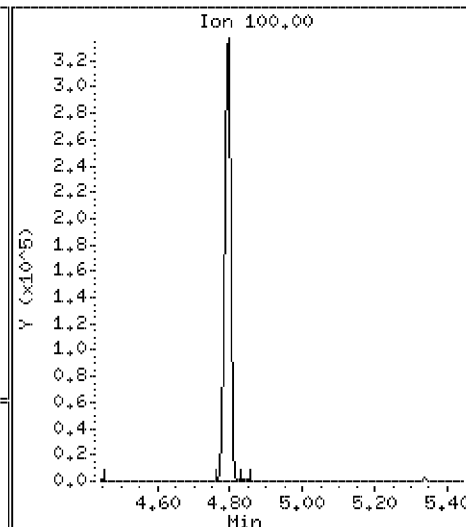
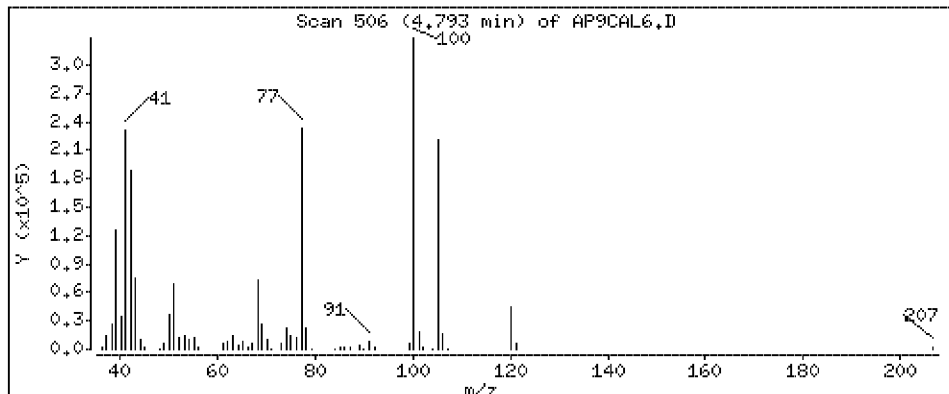
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

24 N-Nitrosopyrrolidine

Concentration: 81.6 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

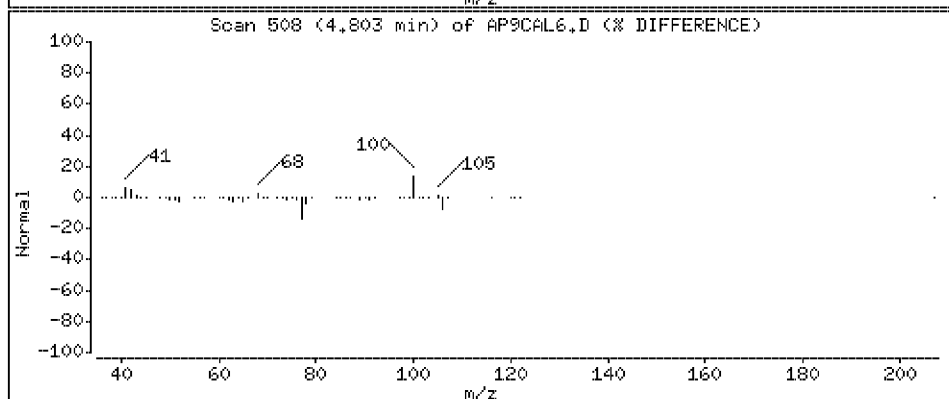
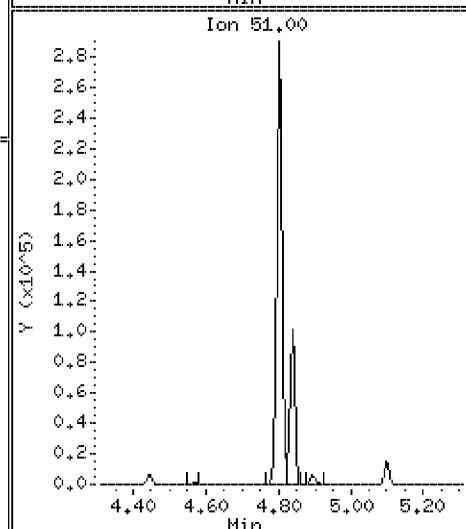
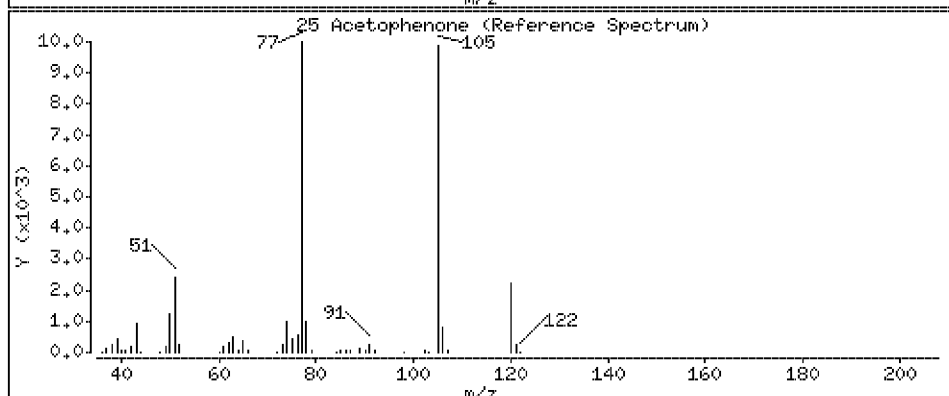
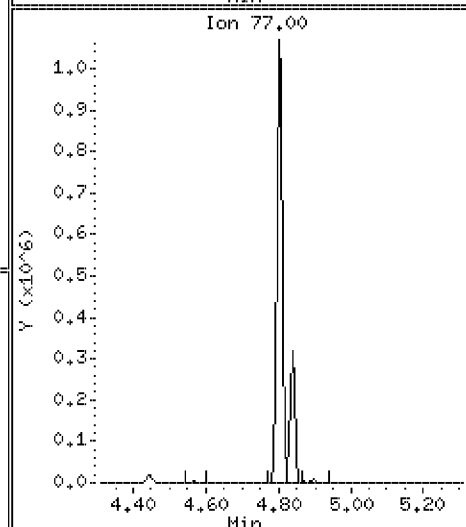
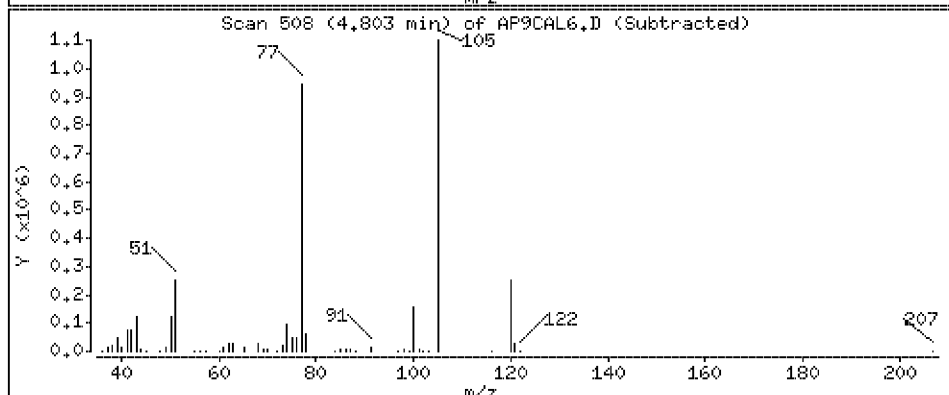
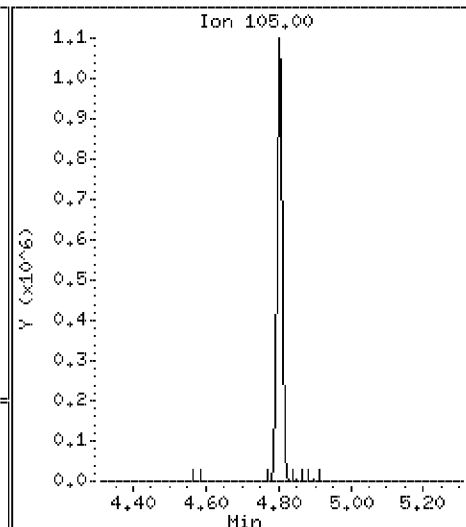
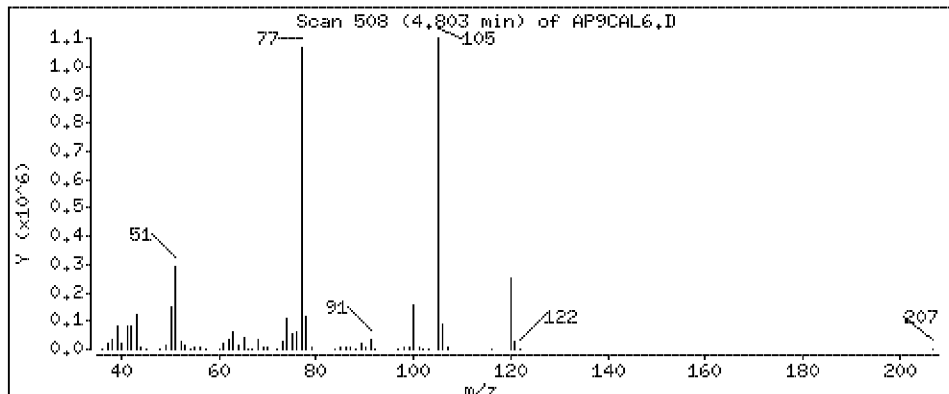
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

25 Acetophenone

Concentration: 79.7 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

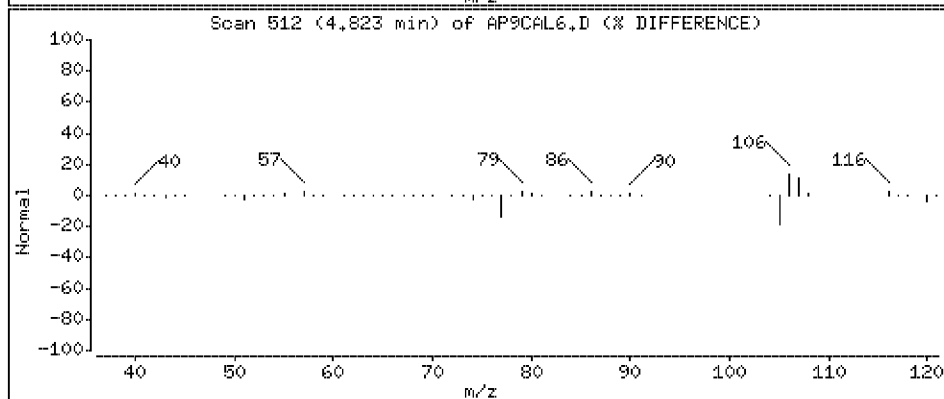
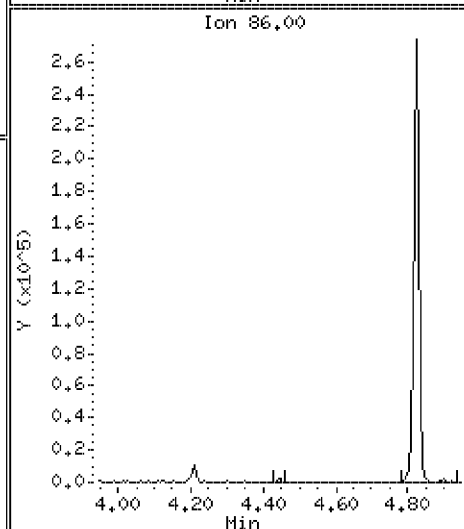
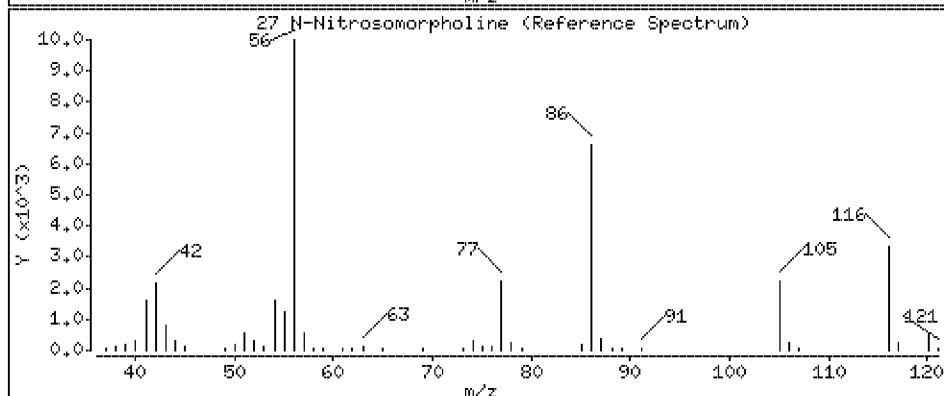
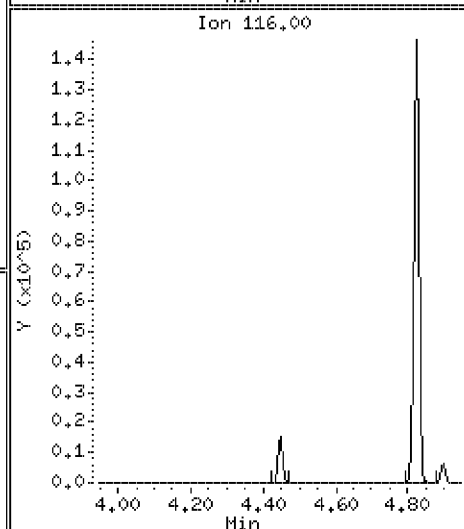
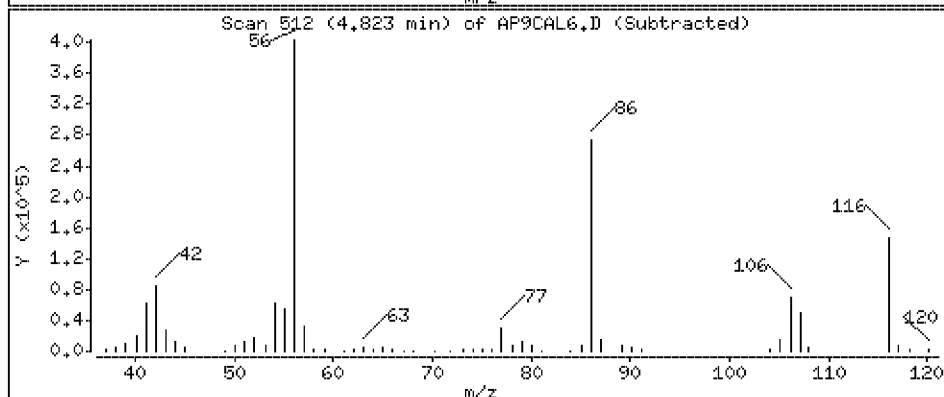
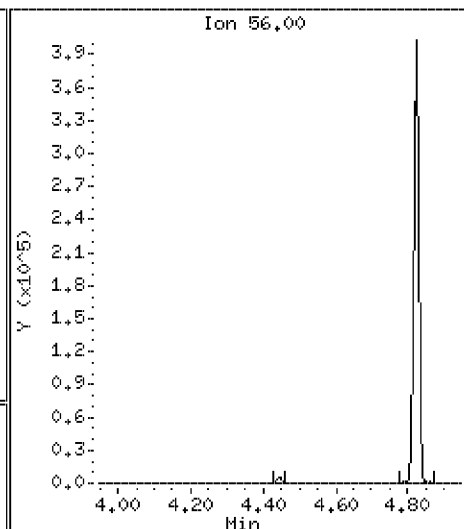
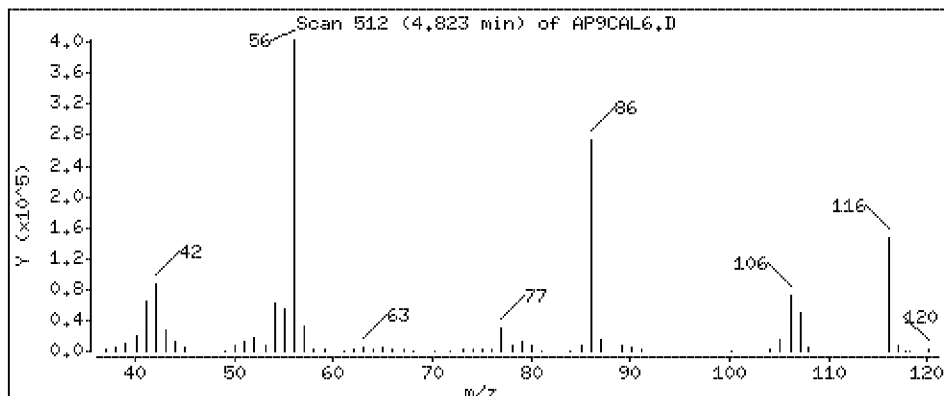
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

27 N-Nitrosomorpholine

Concentration: 77.7 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

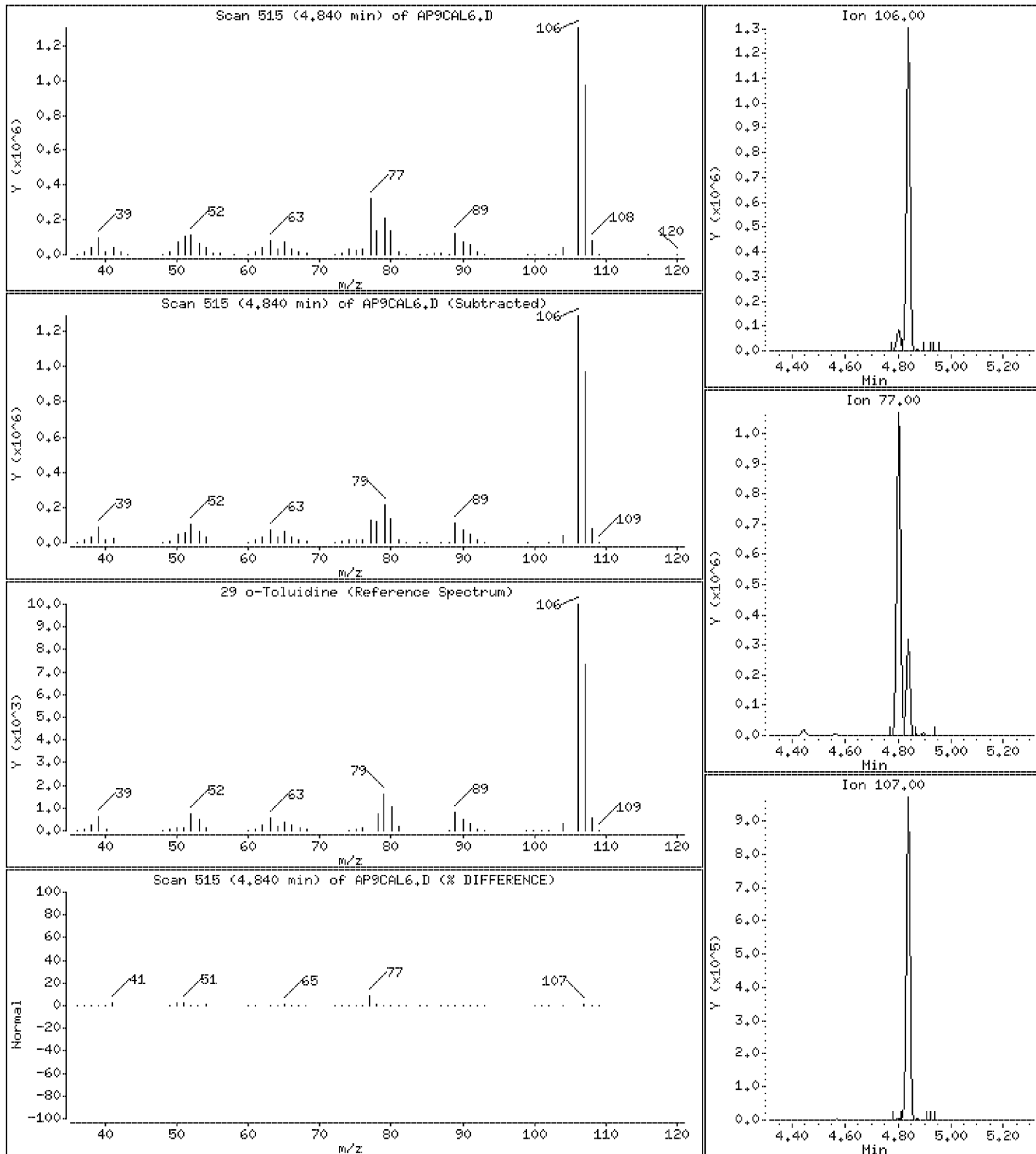
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

29 o-Toluidine

Concentration: 78.4 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

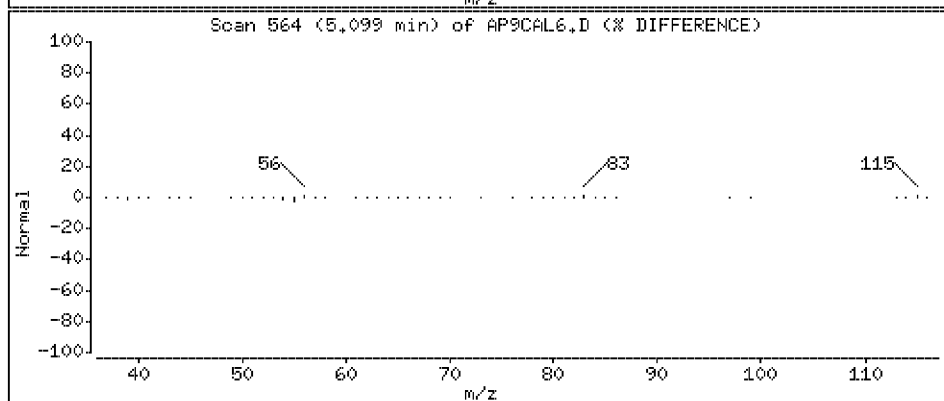
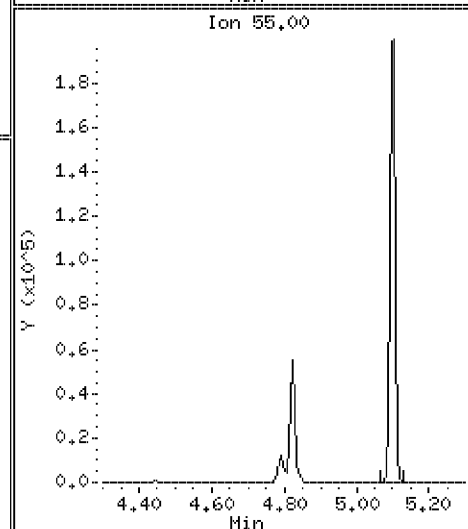
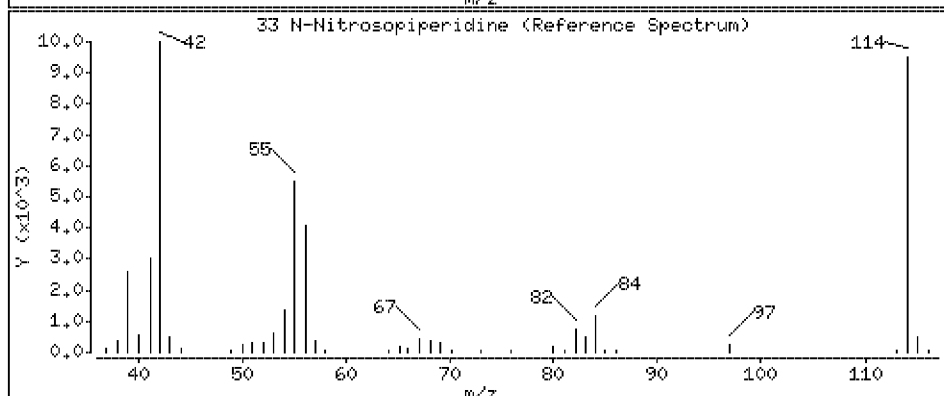
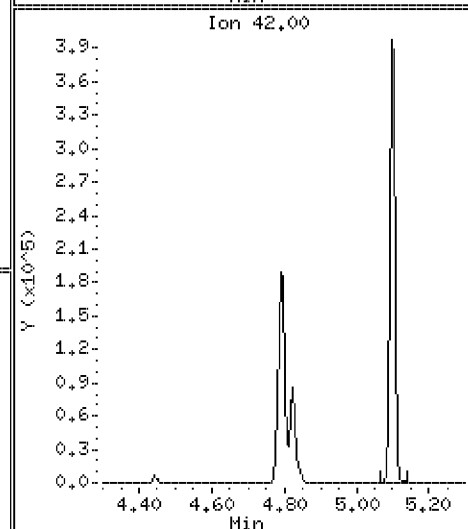
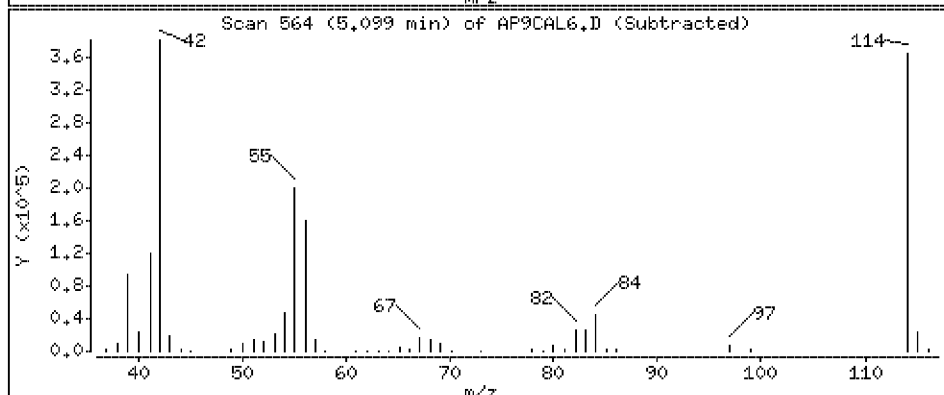
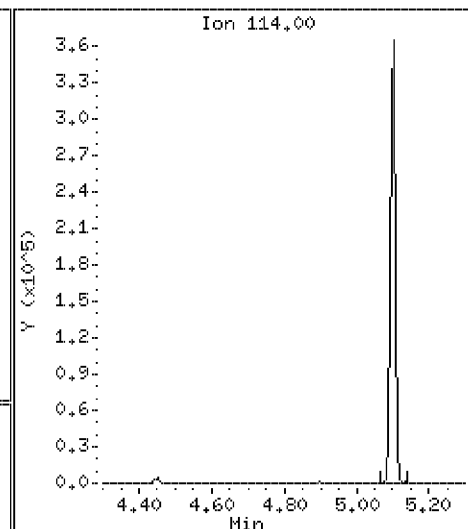
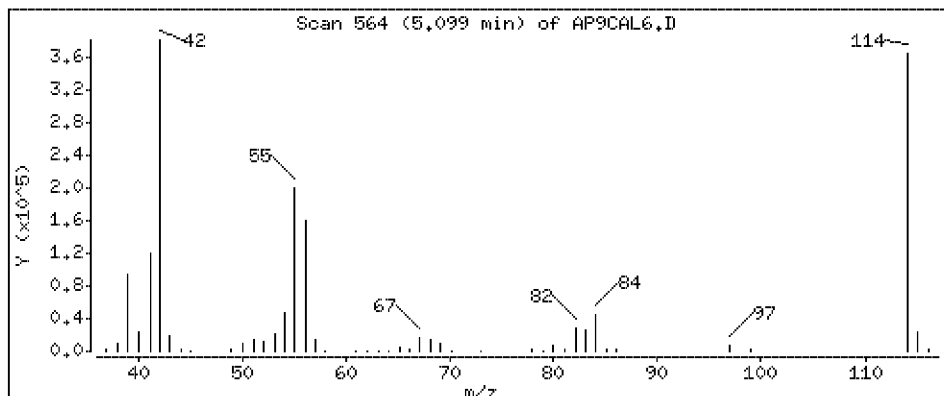
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

33 N-Nitrosopiperidine

Concentration: 79.7 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

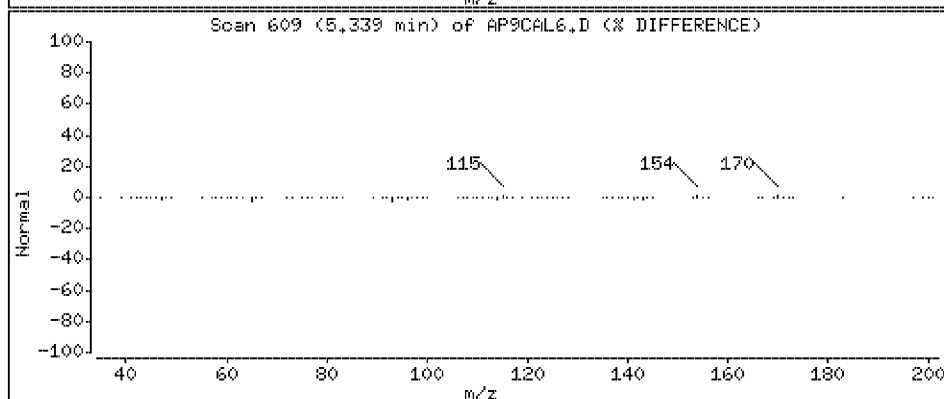
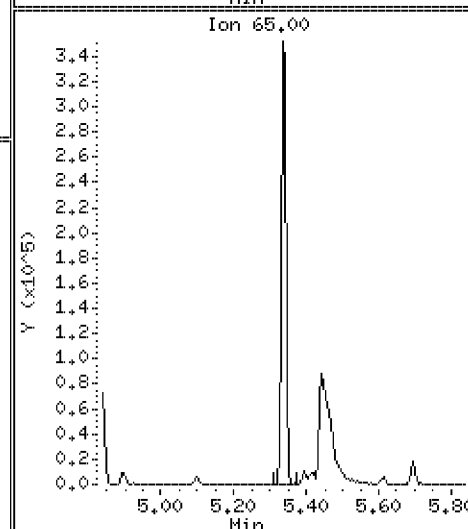
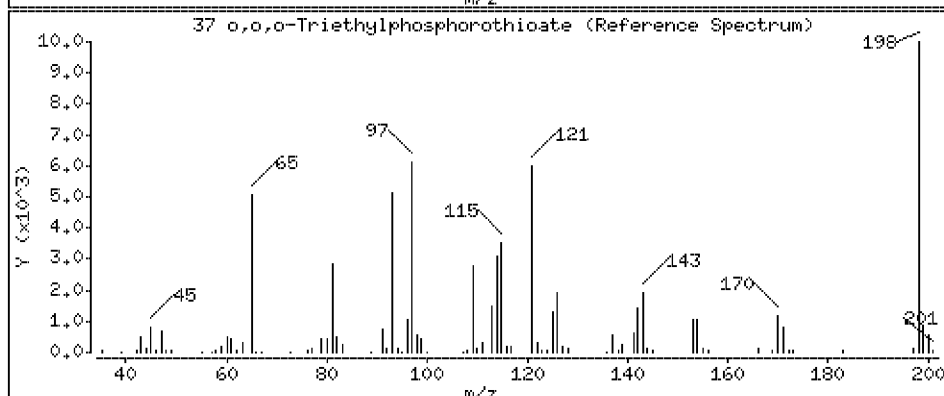
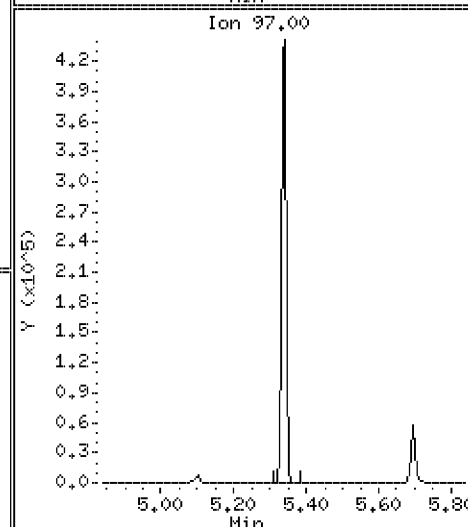
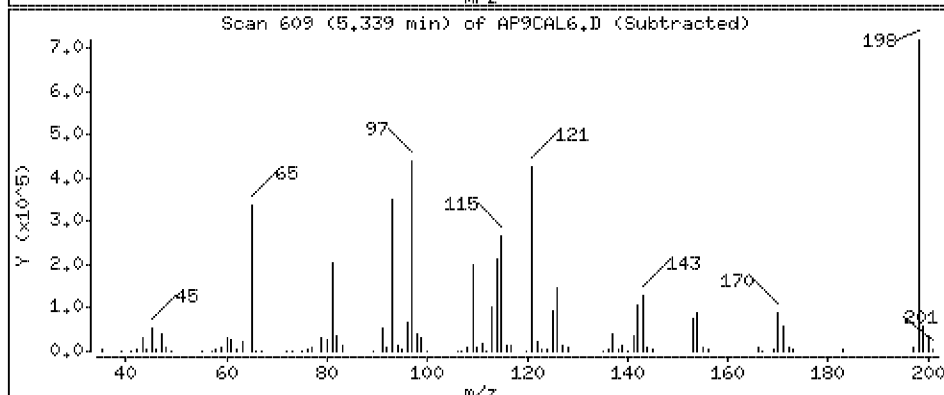
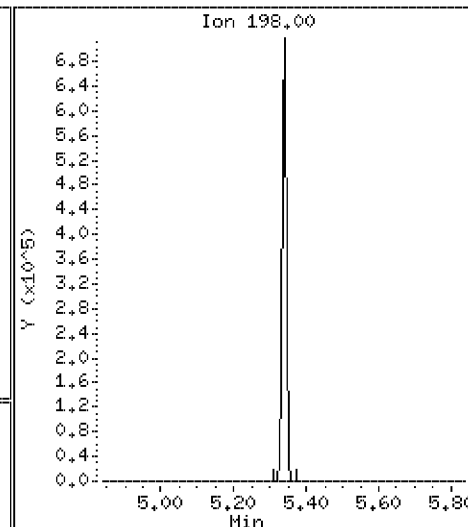
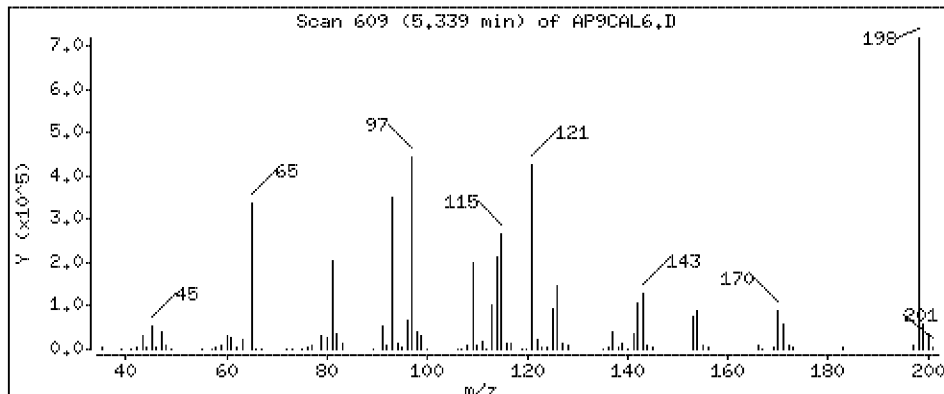
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

37 o,o,o-Triethylphosphorothioate

Concentration: 80.3 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

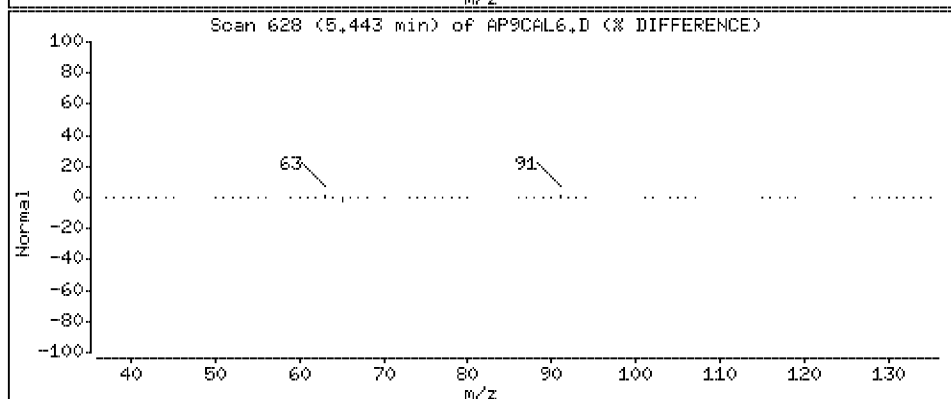
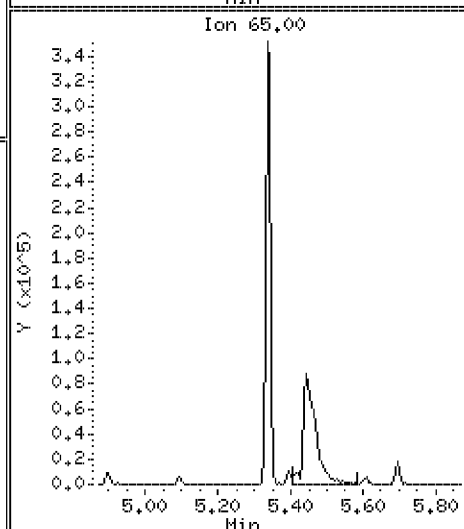
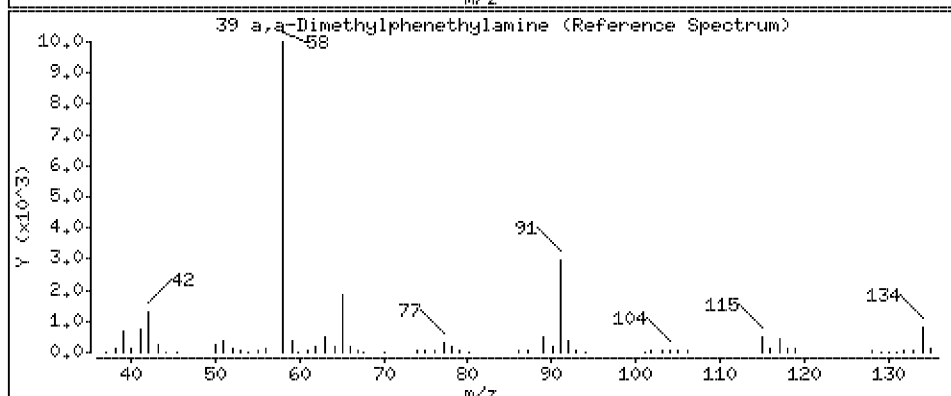
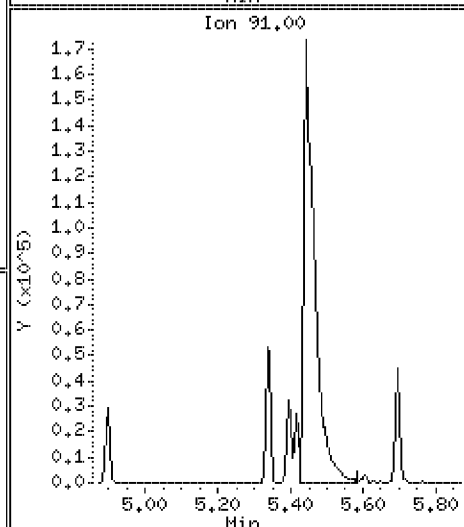
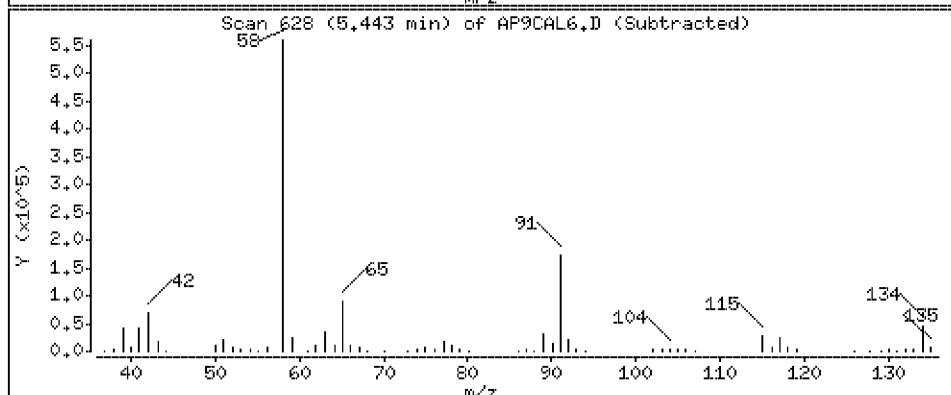
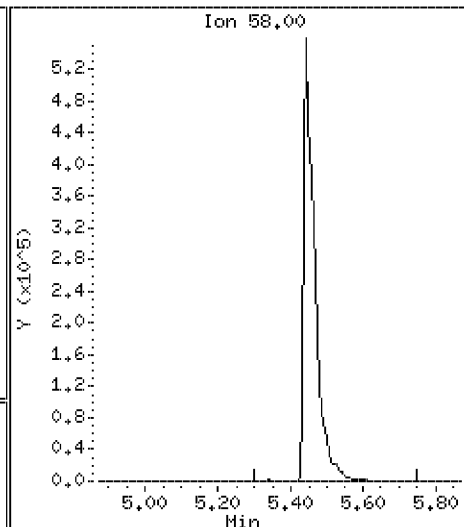
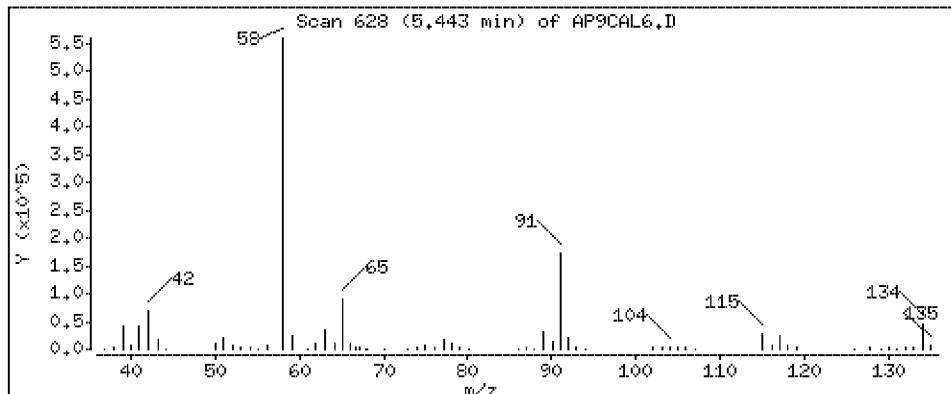
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

39 a,a-Dimethylphenethylamine

Concentration: 79.9 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

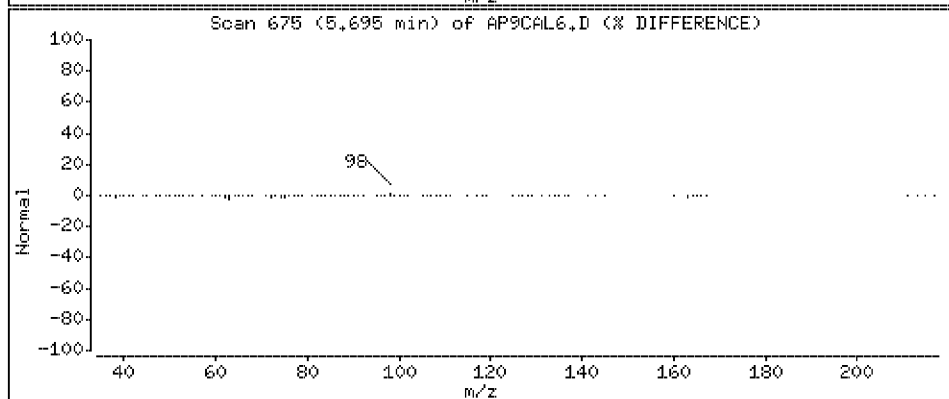
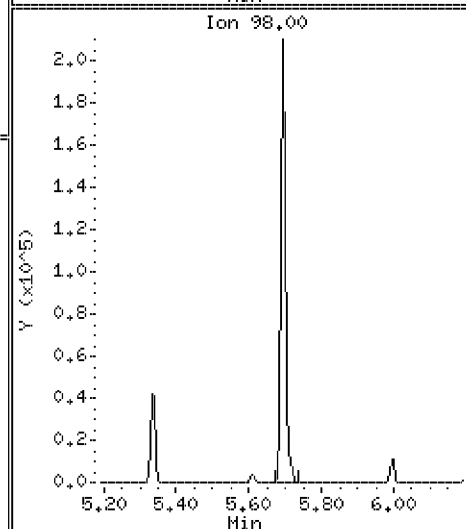
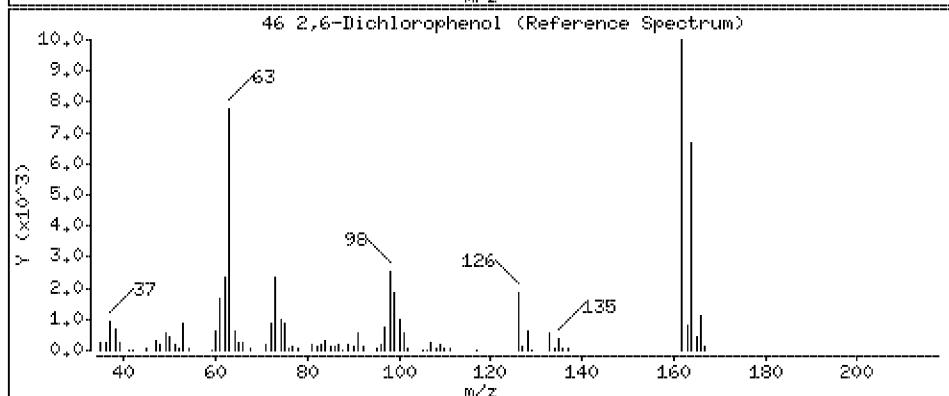
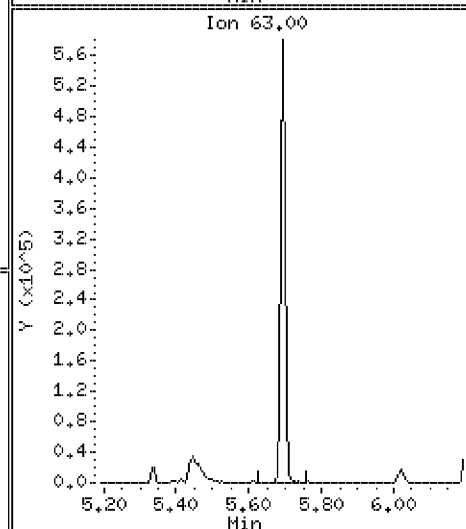
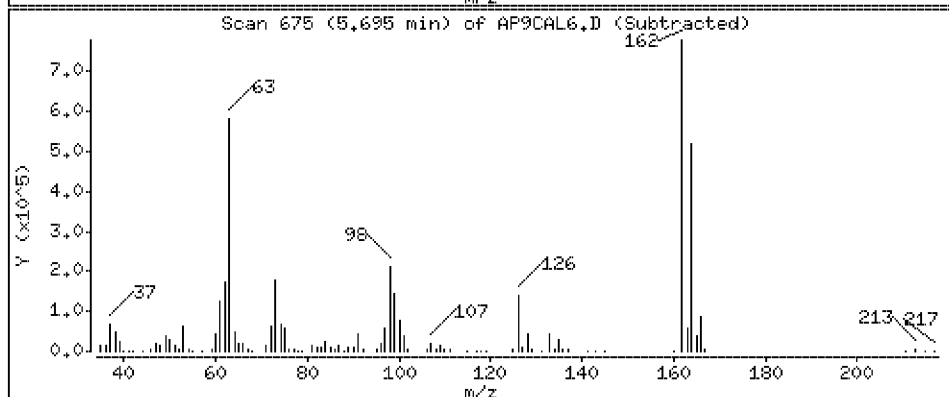
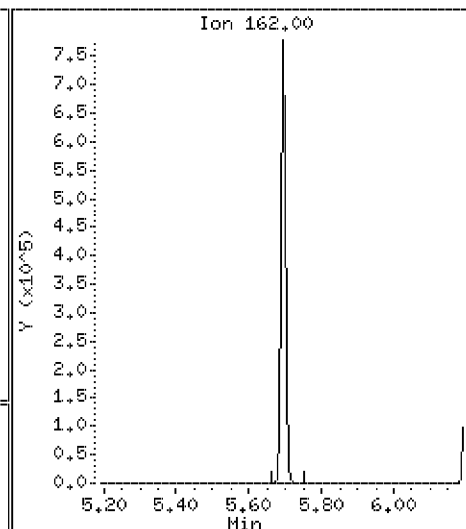
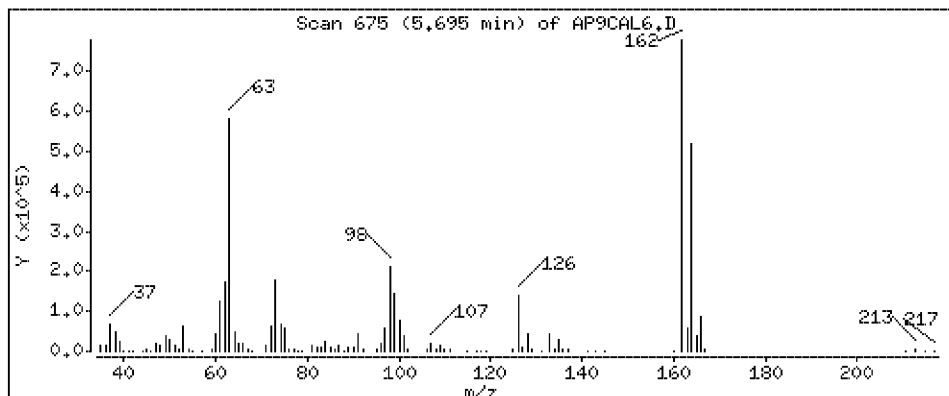
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

46 2,6-Dichlorophenol

Concentration: 81.0 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

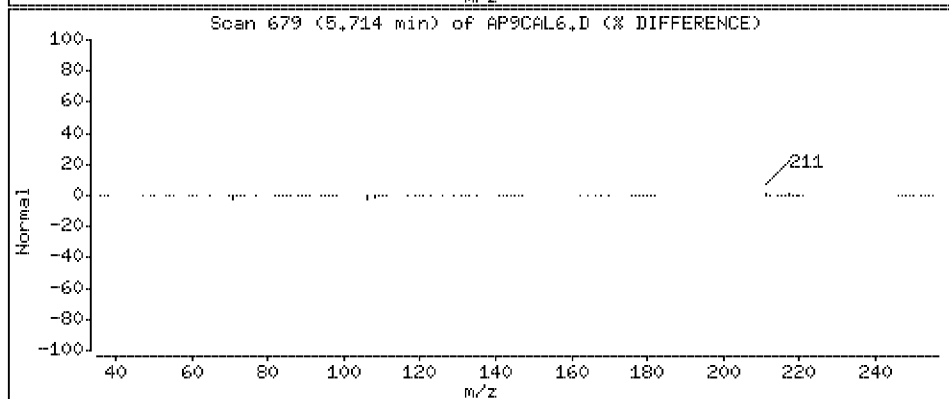
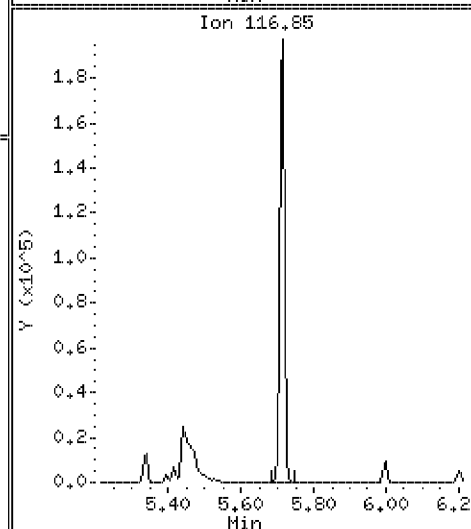
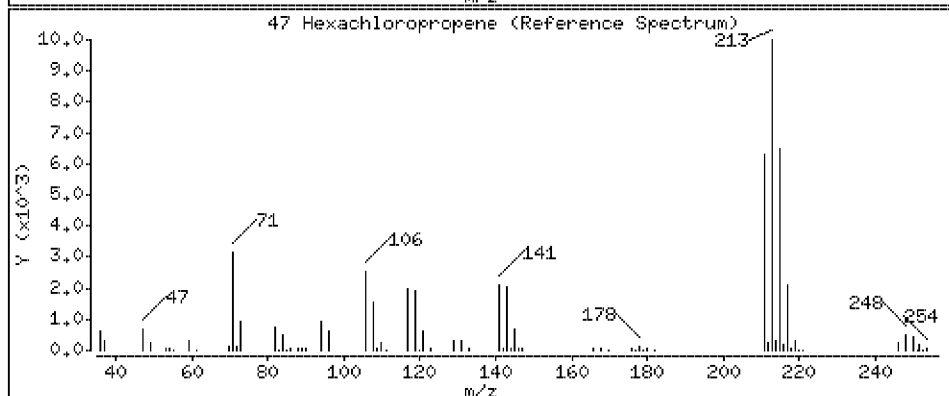
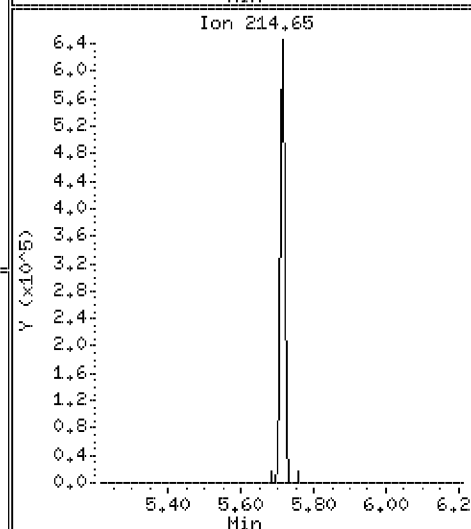
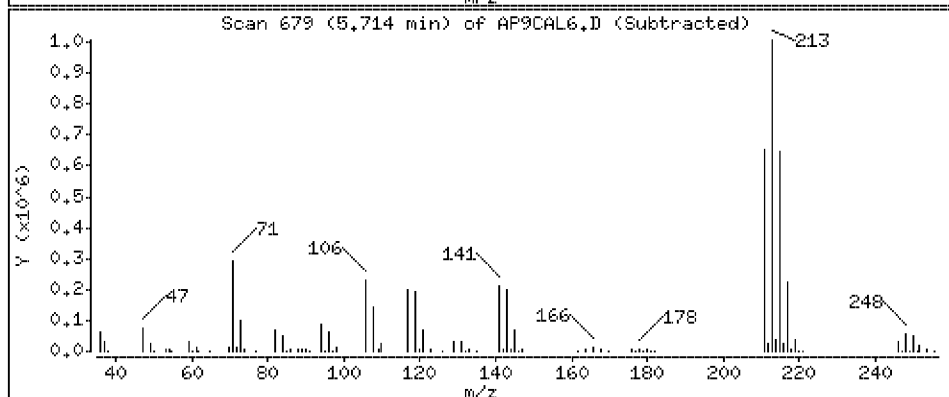
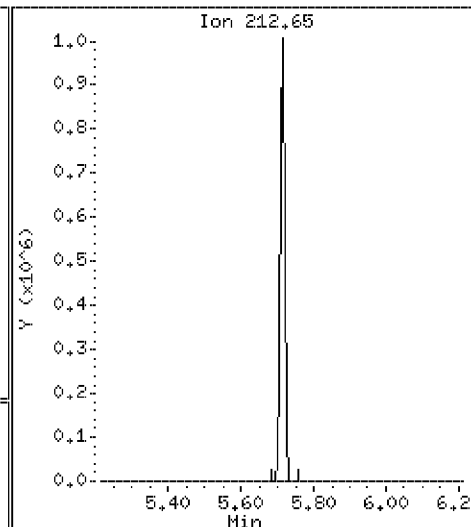
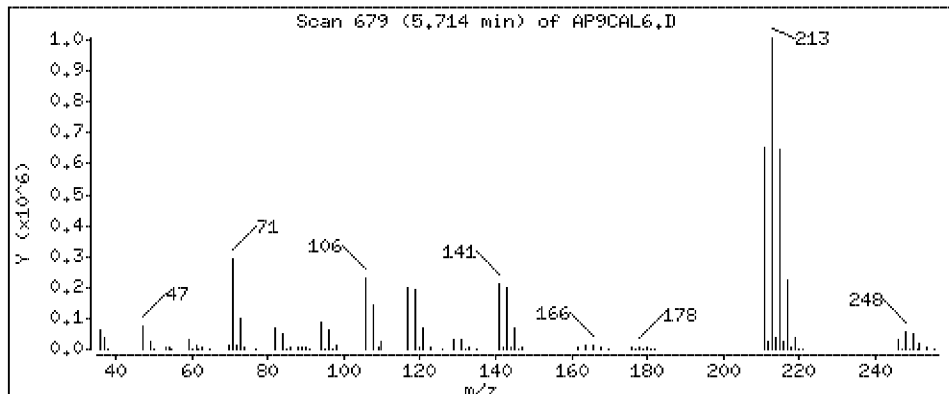
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

47 Hexachloropropene

Concentration: 80.2 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

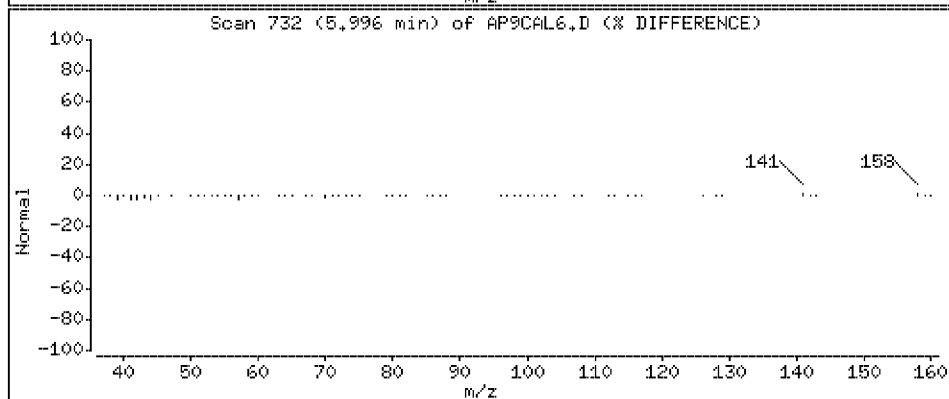
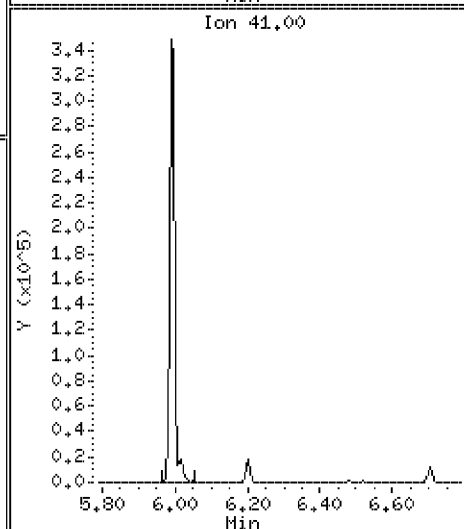
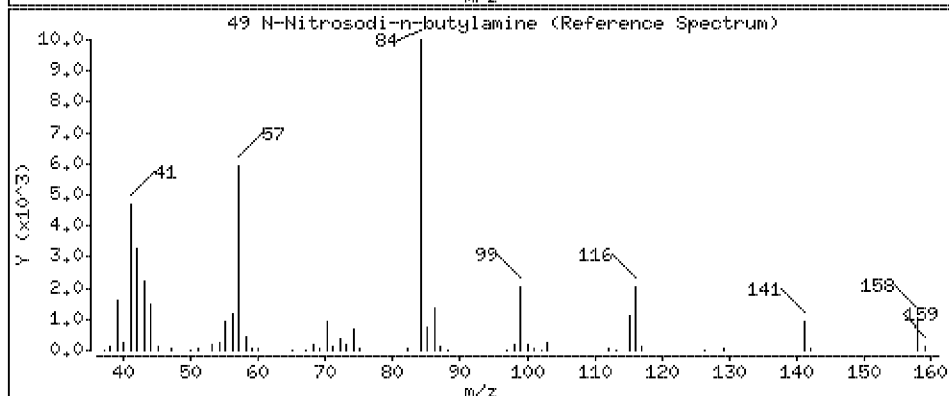
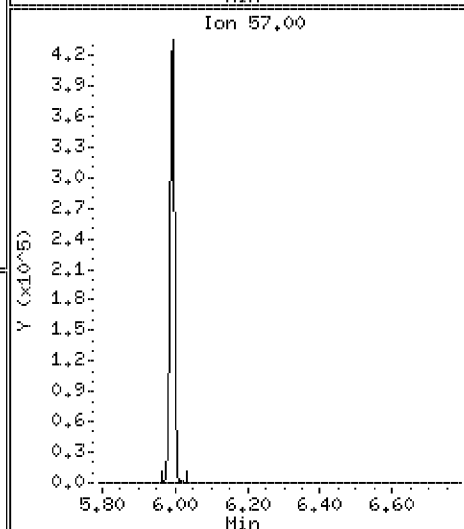
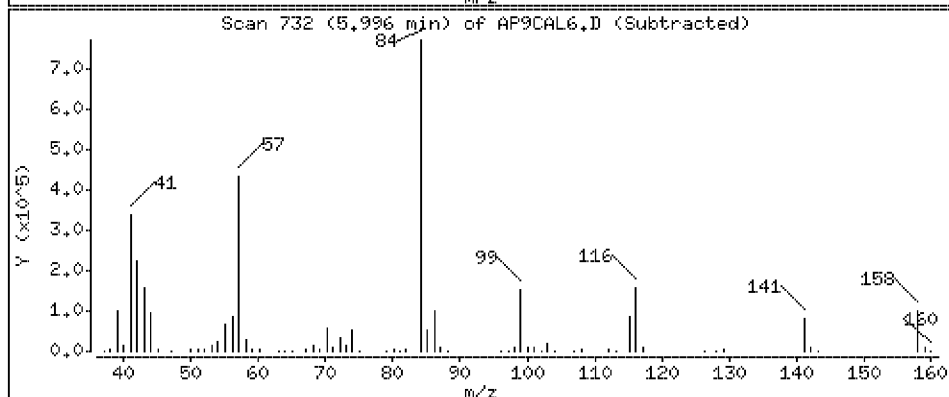
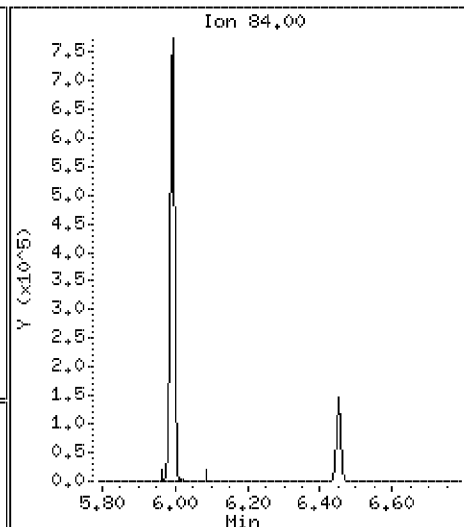
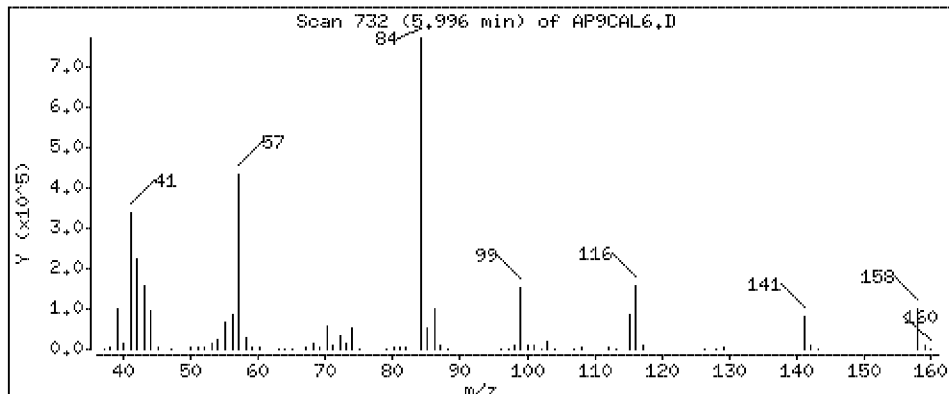
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

49 N-Nitrosodi-n-butylamine

Concentration: 83.5 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

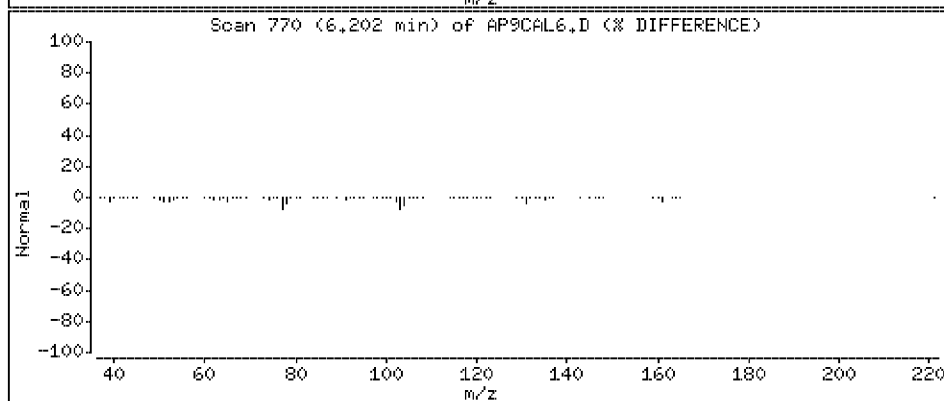
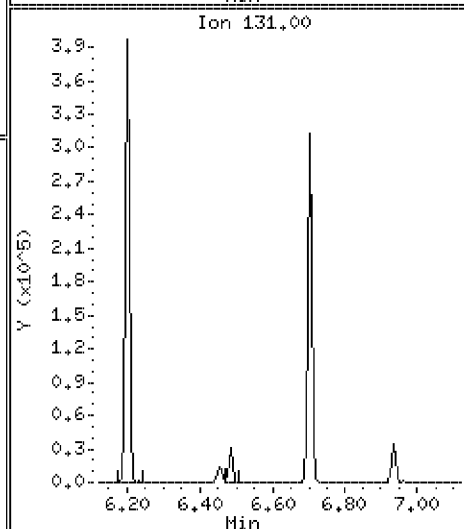
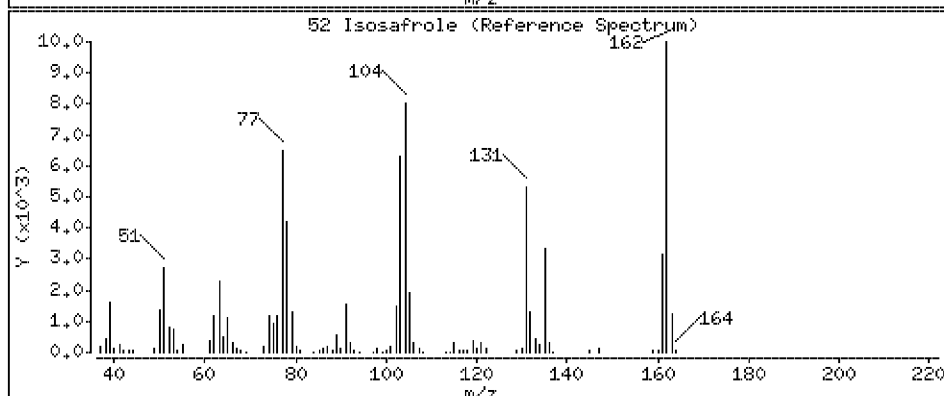
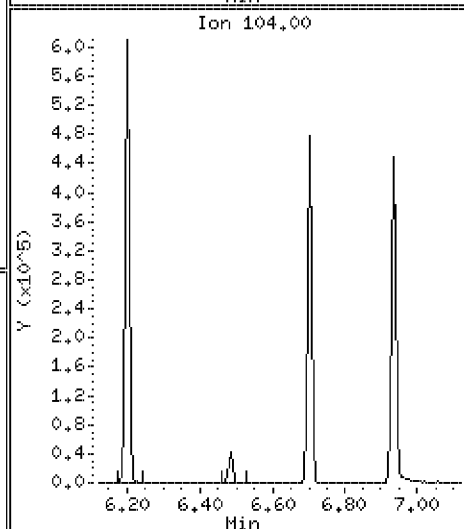
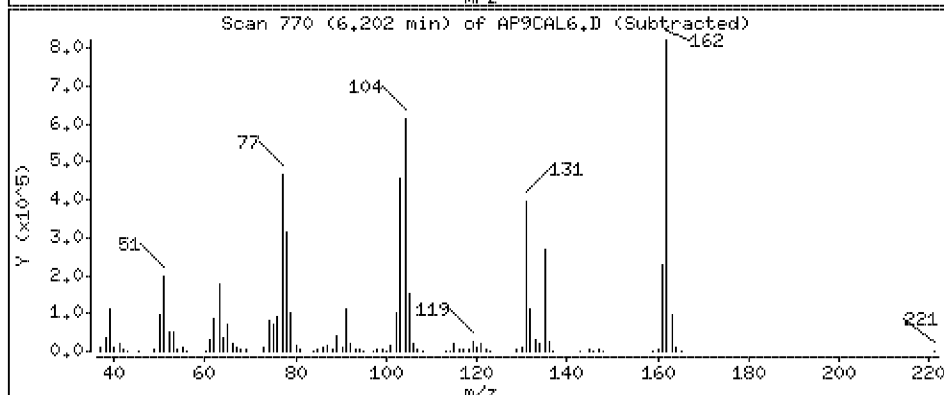
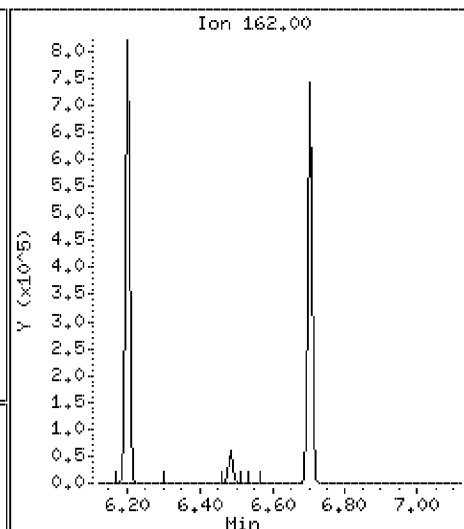
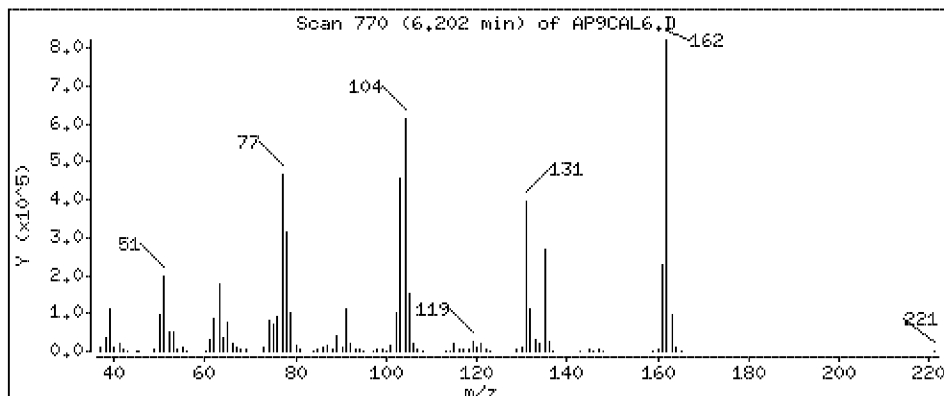
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

52 Isosafrole

Concentration: 83.2 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

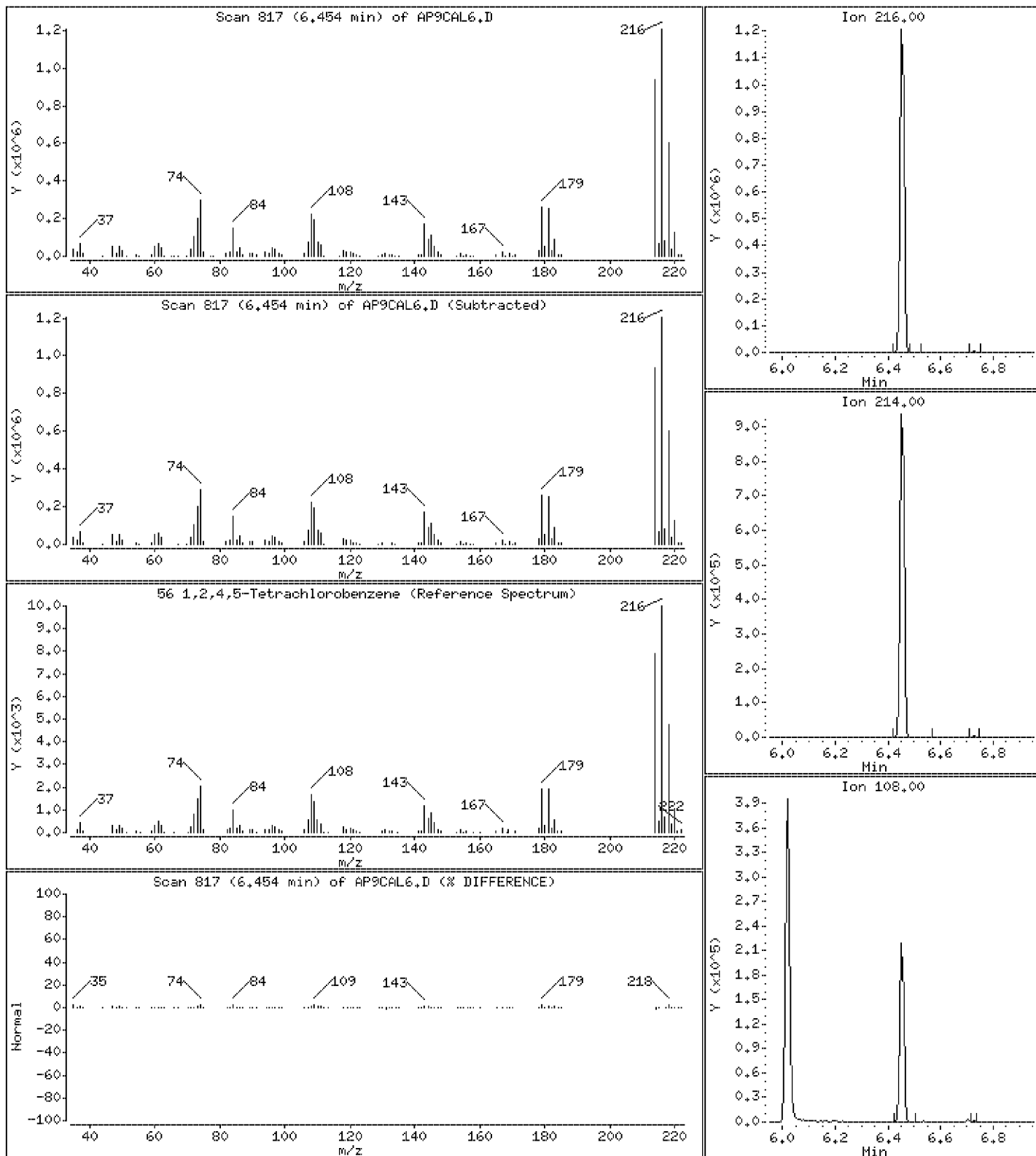
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

56 1,2,4,5-Tetrachlorobenzene

Concentration: 80.7 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

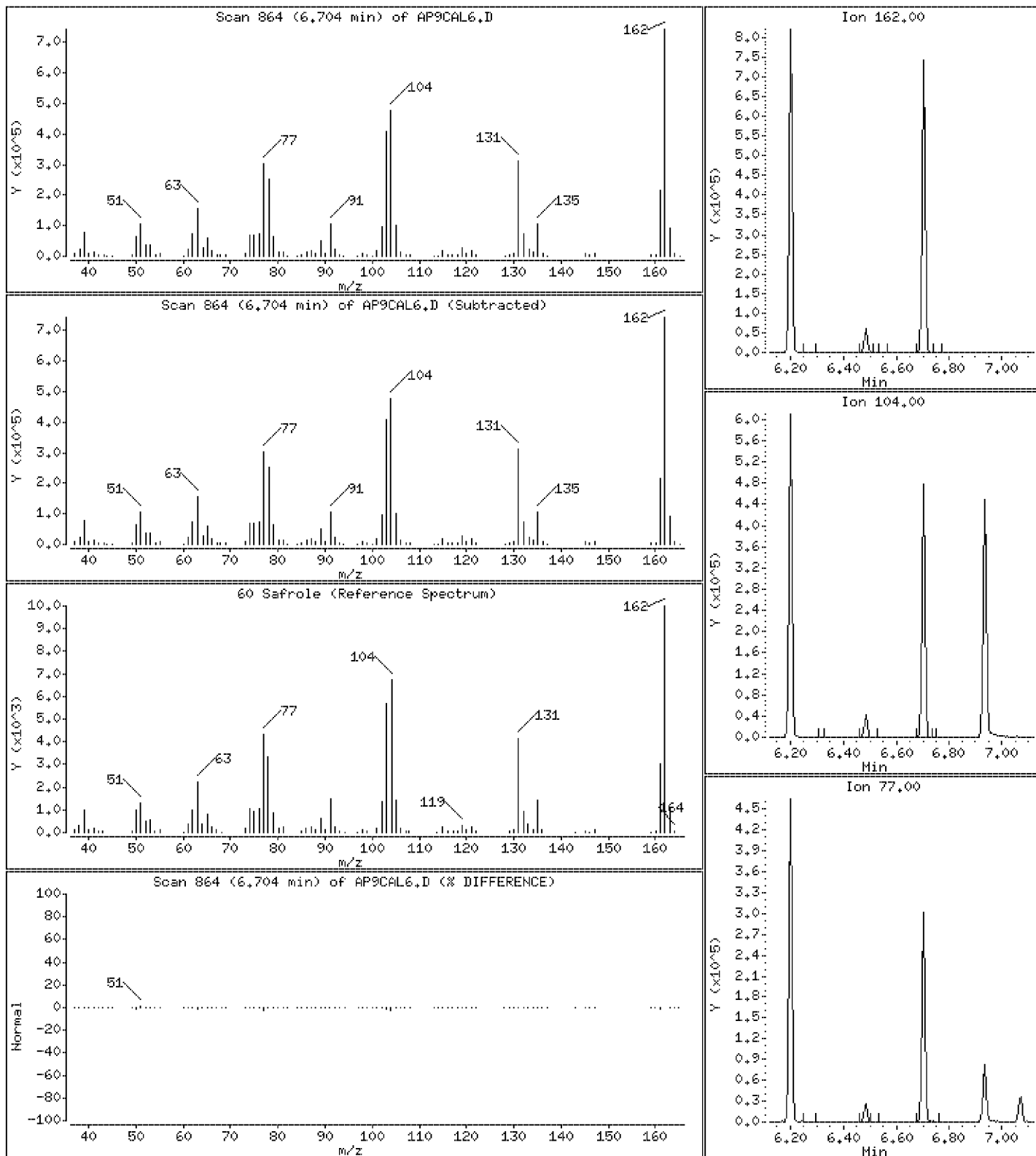
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

60 Safrole

Concentration: 81.0 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

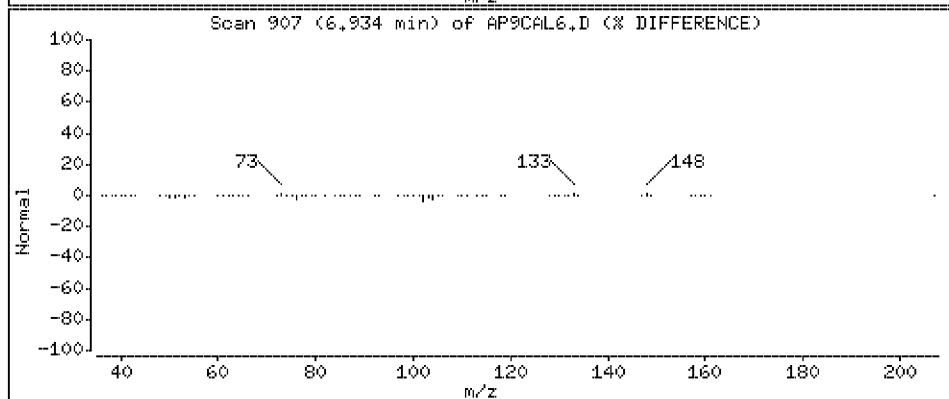
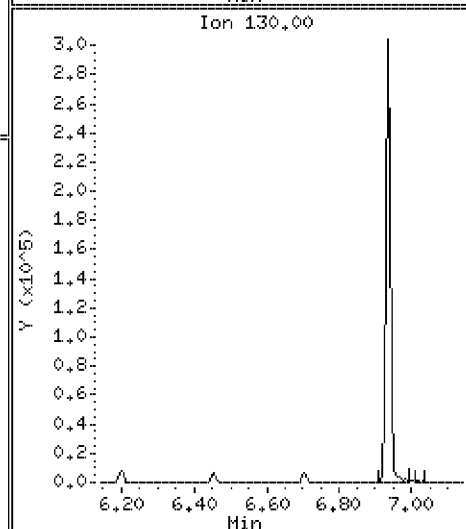
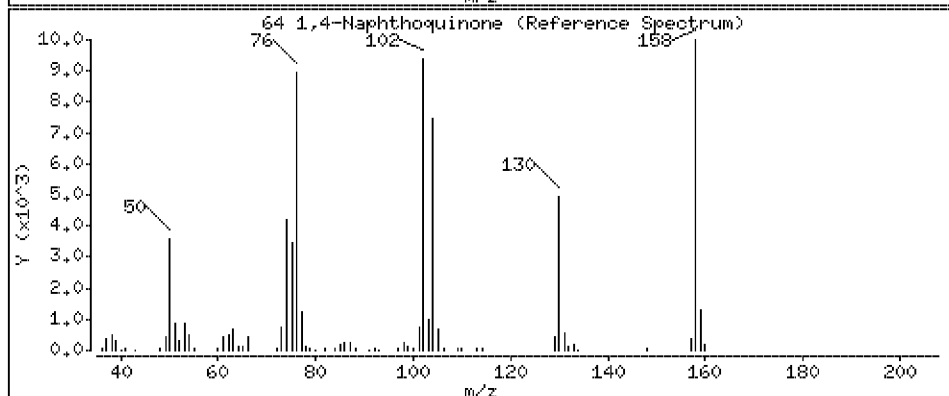
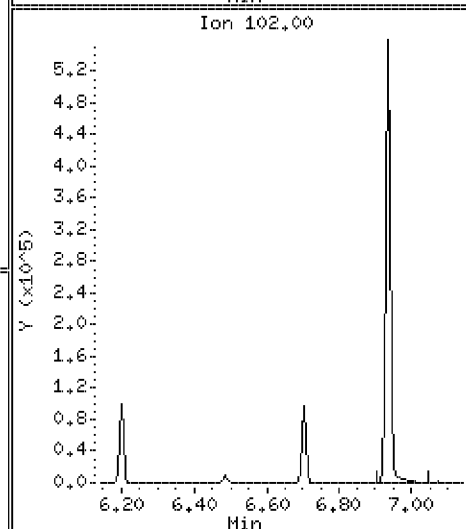
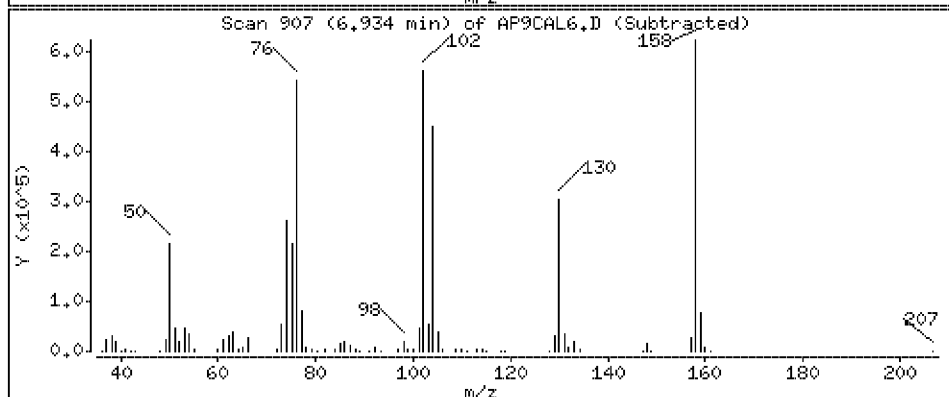
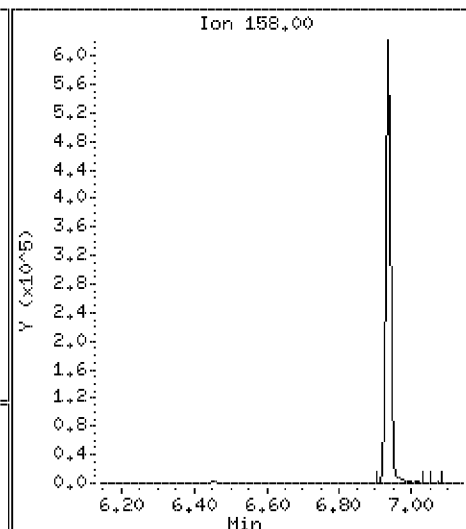
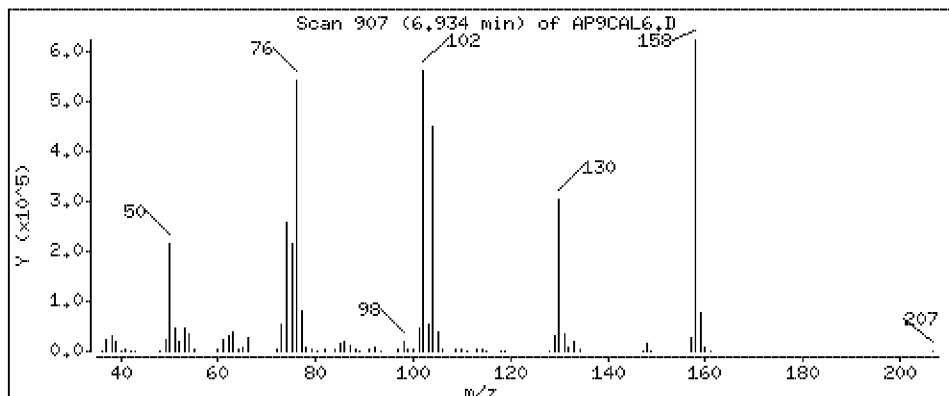
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

64 1,4-Naphthoquinone

Concentration: 80.7 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

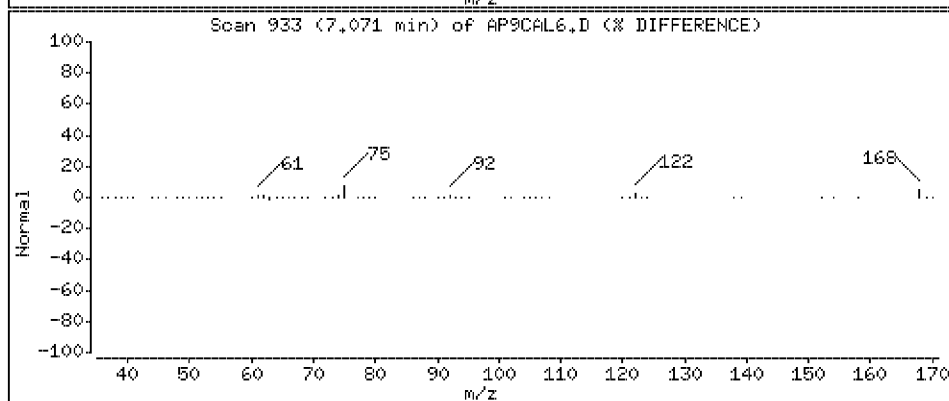
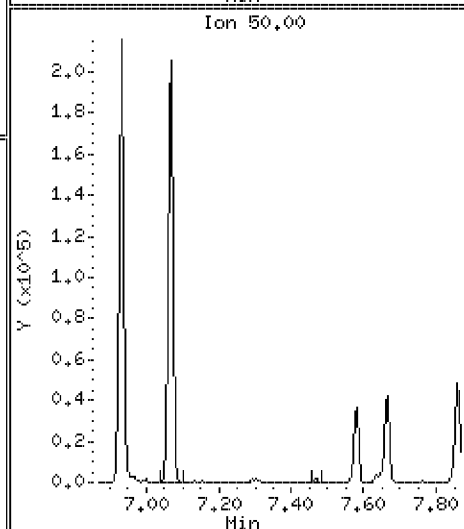
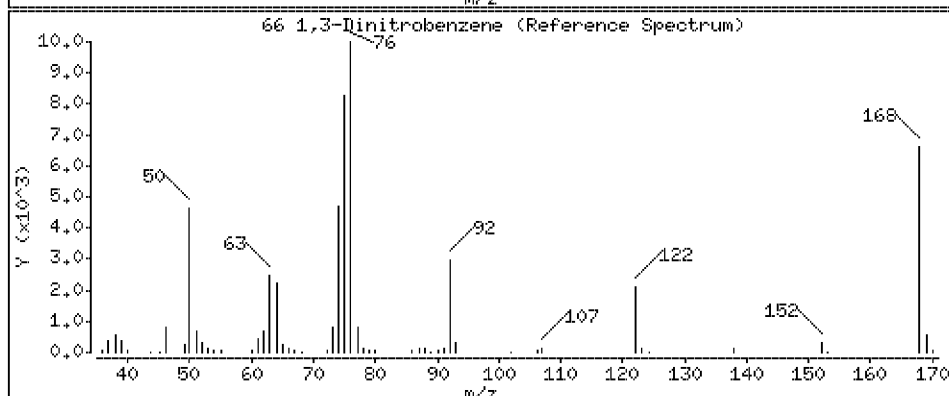
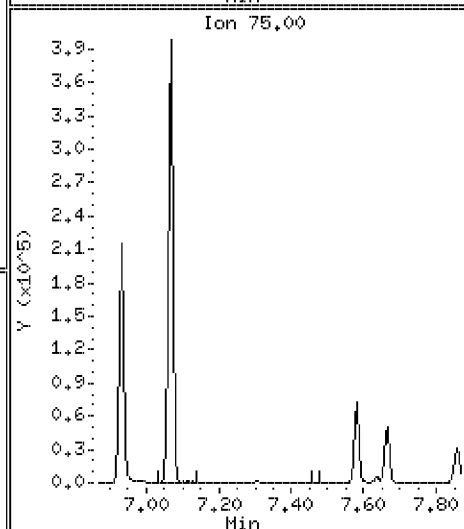
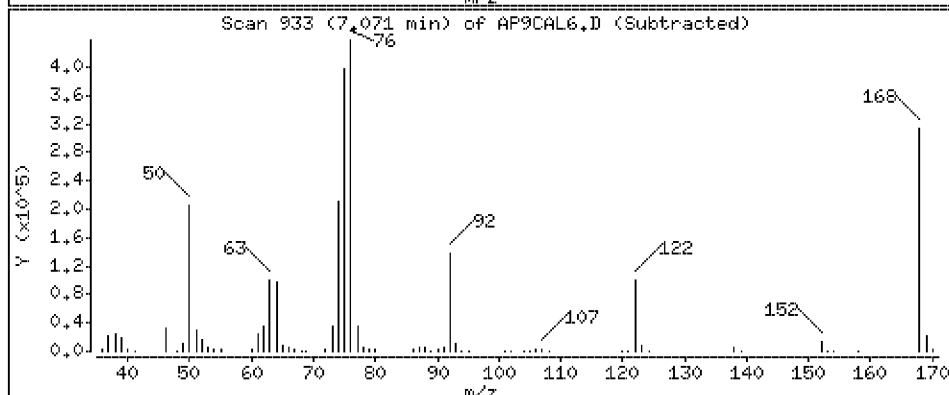
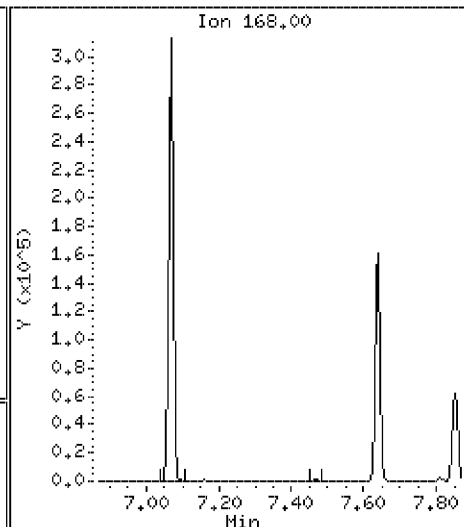
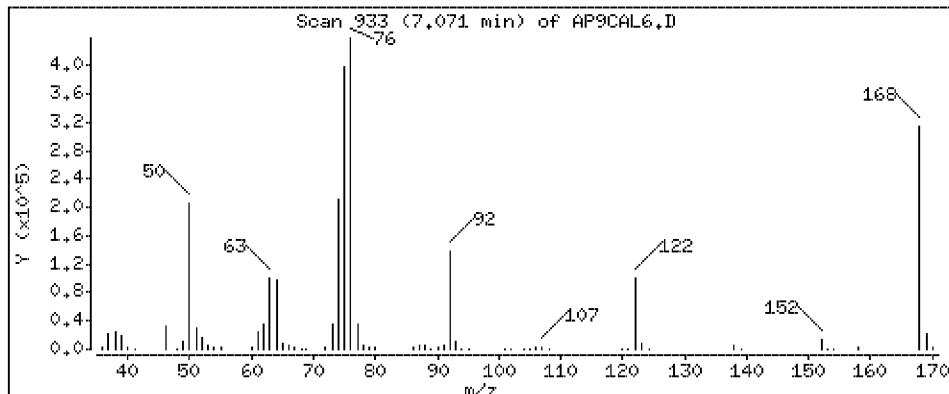
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

66 1,3-Dinitrobenzene

Concentration: 81.1 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

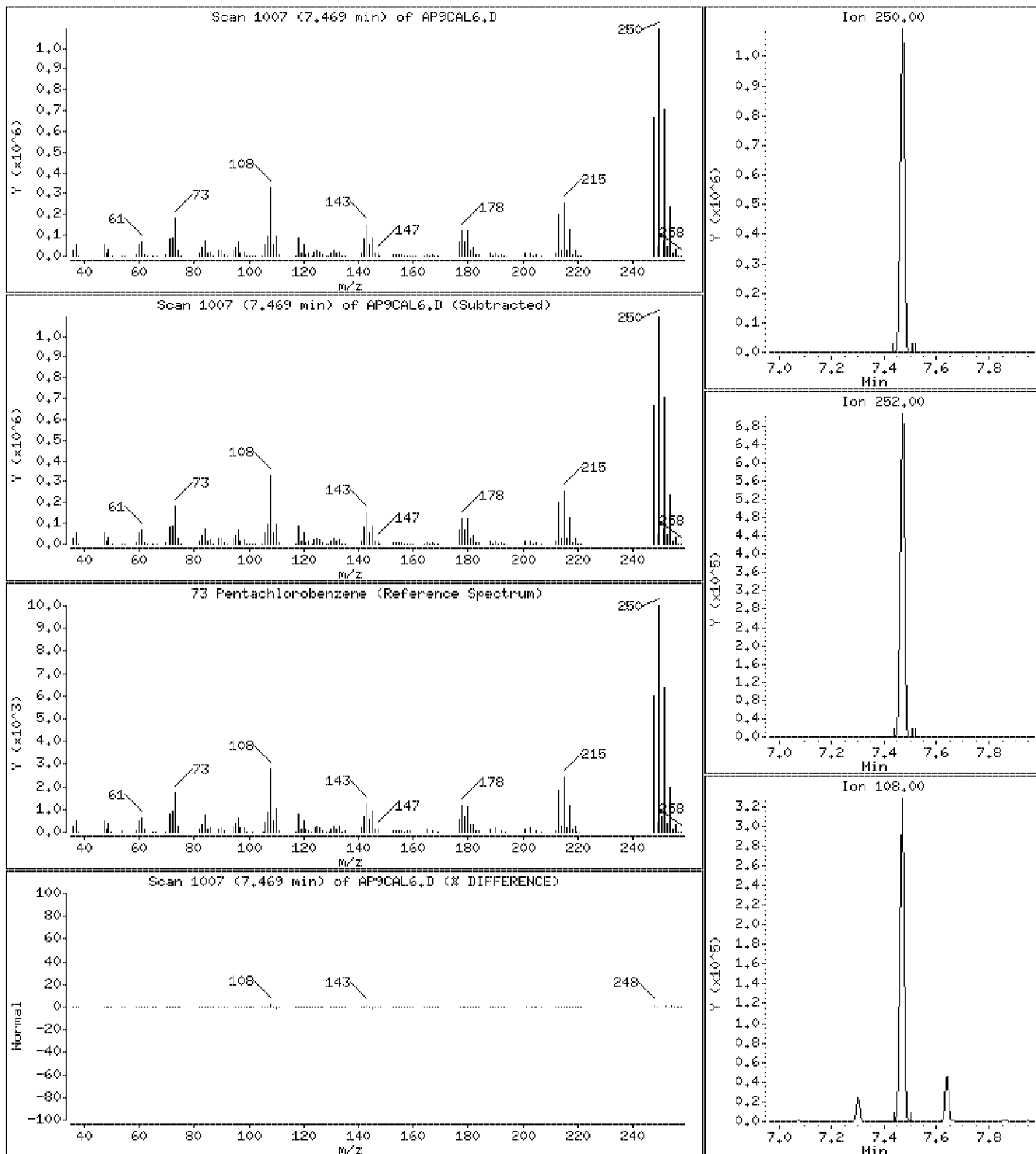
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

73 Pentachlorobenzene

Concentration: 80.1 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

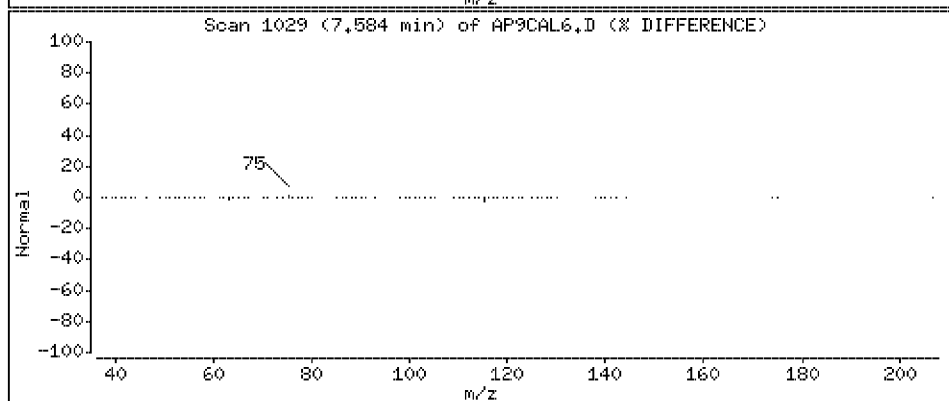
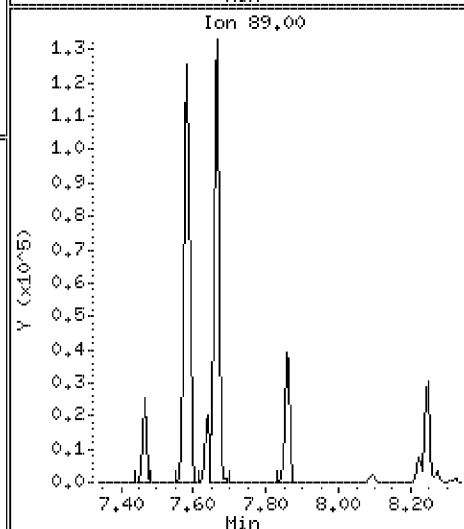
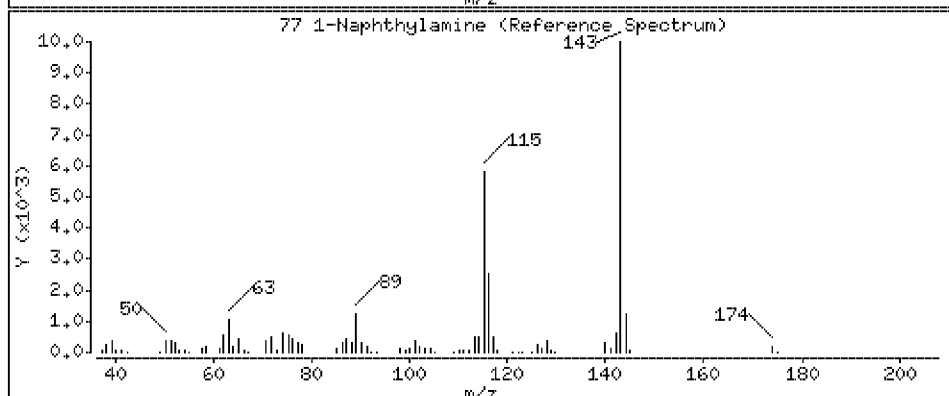
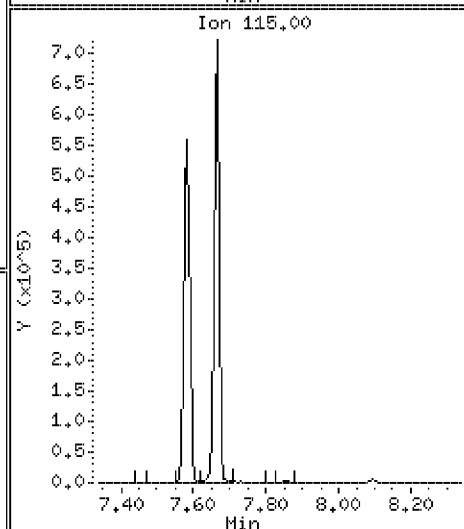
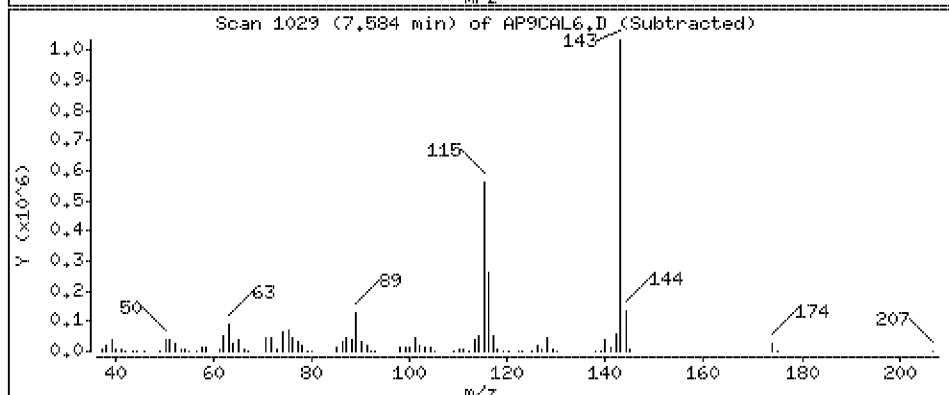
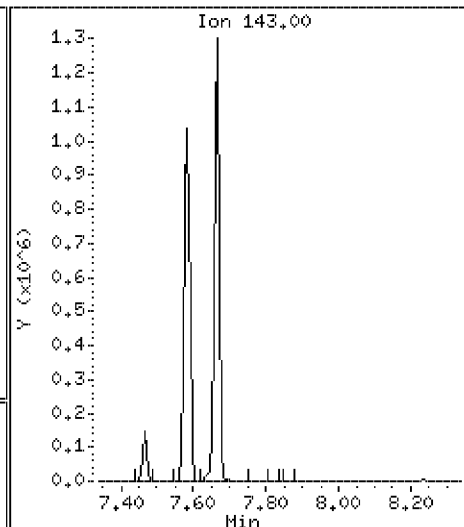
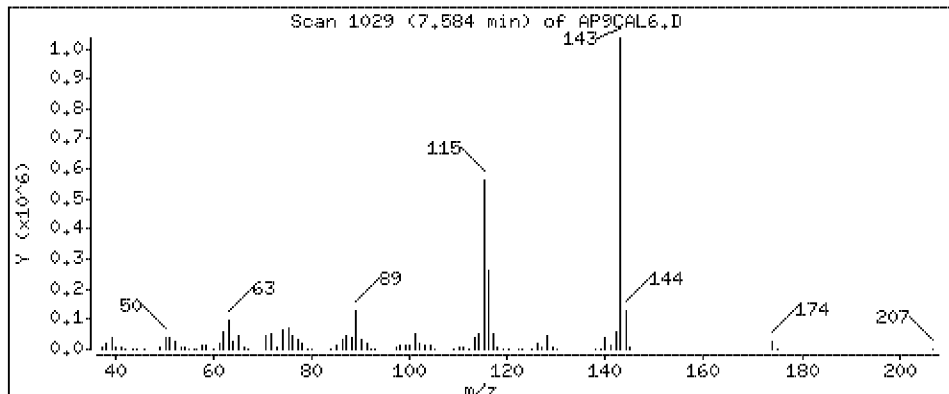
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

77 1-Naphthylamine

Concentration: 79.3 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

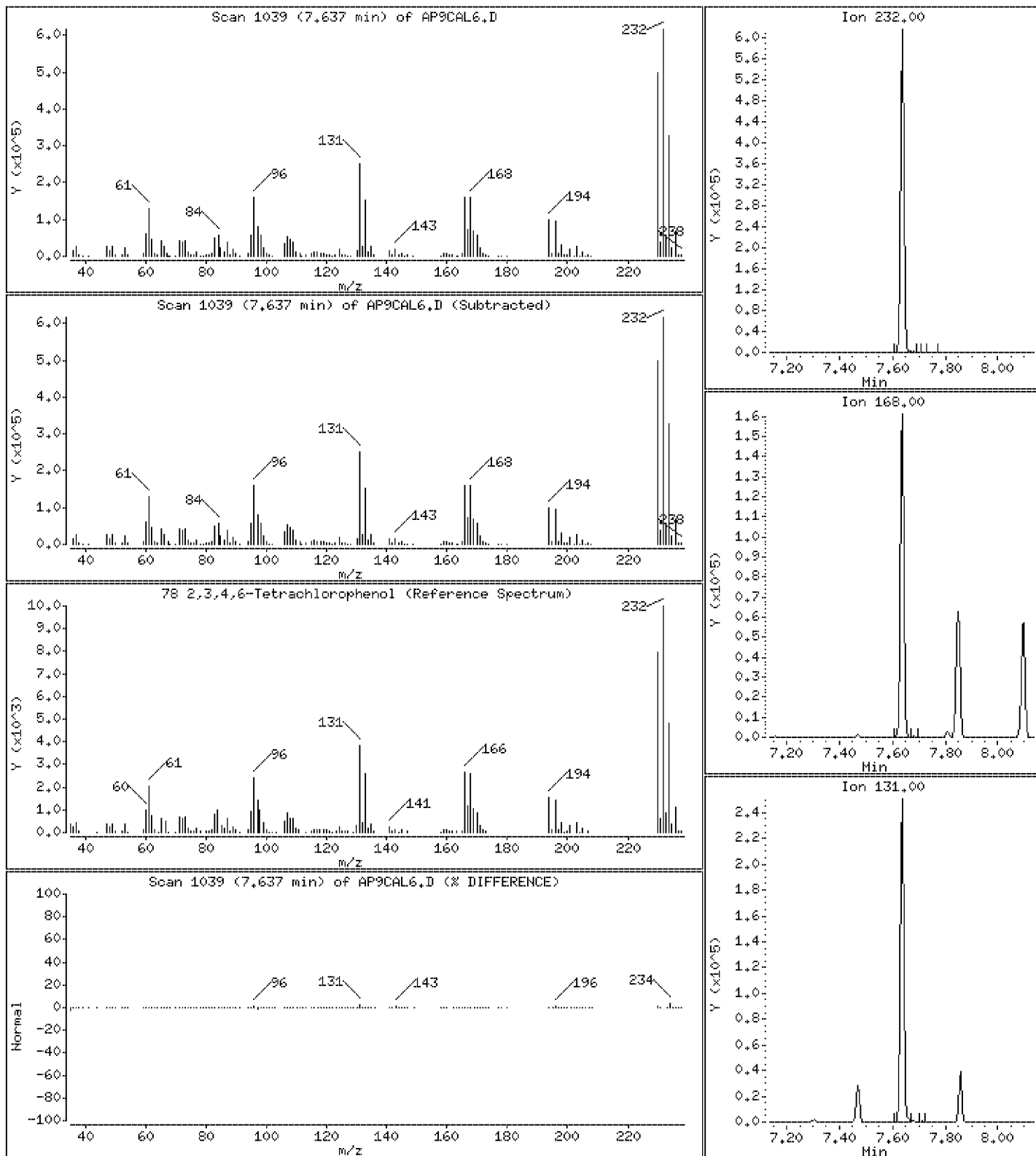
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

78 2,3,4,6-Tetrachlorophenol

Concentration: 80.5 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

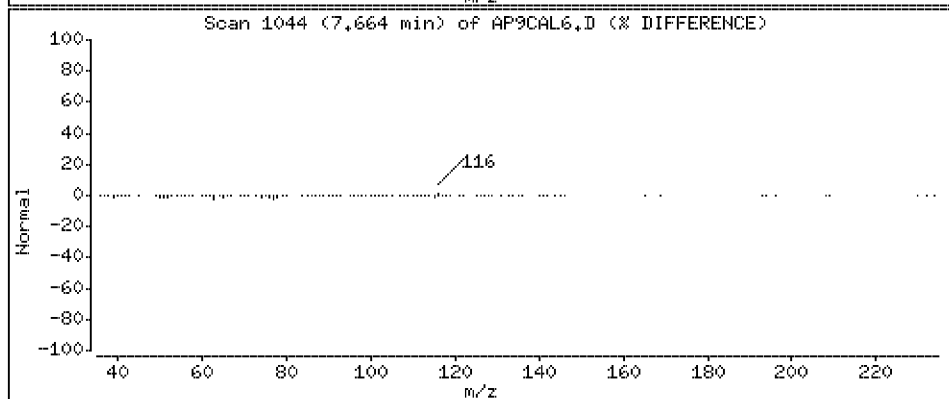
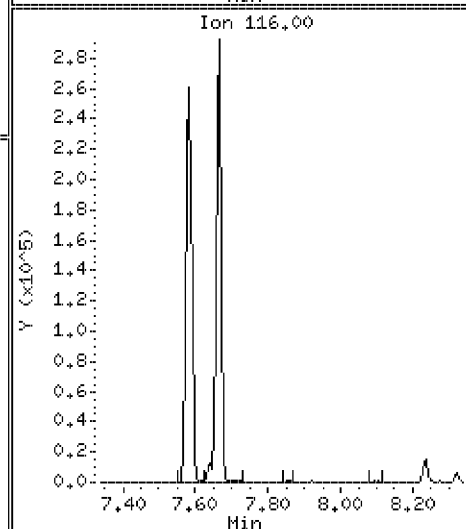
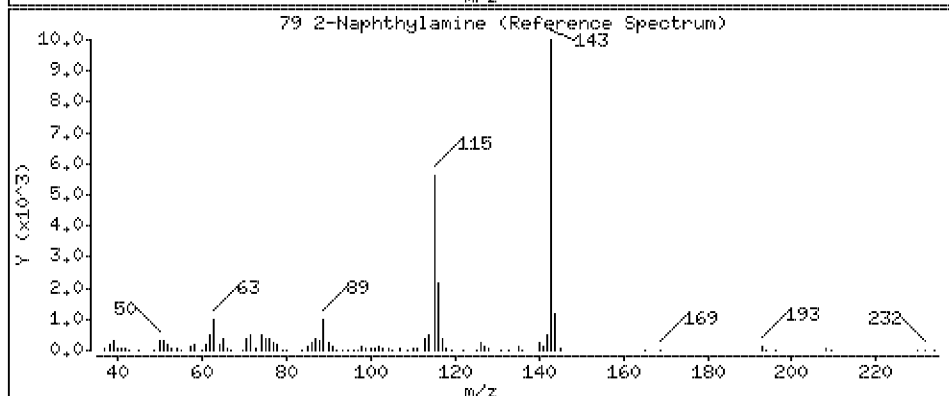
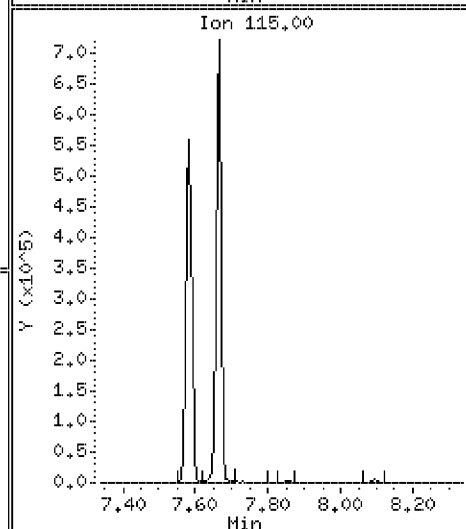
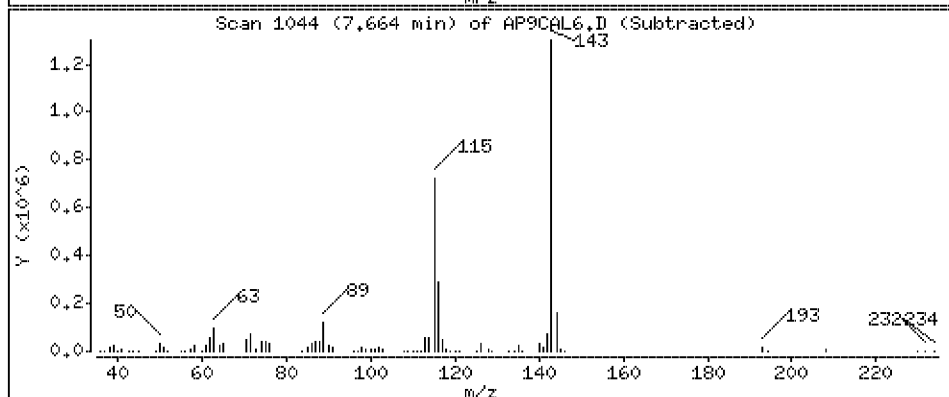
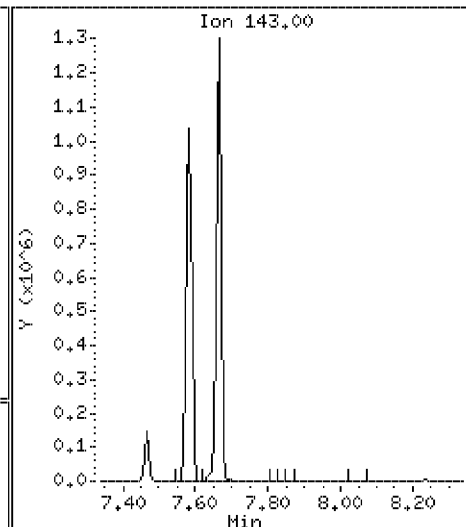
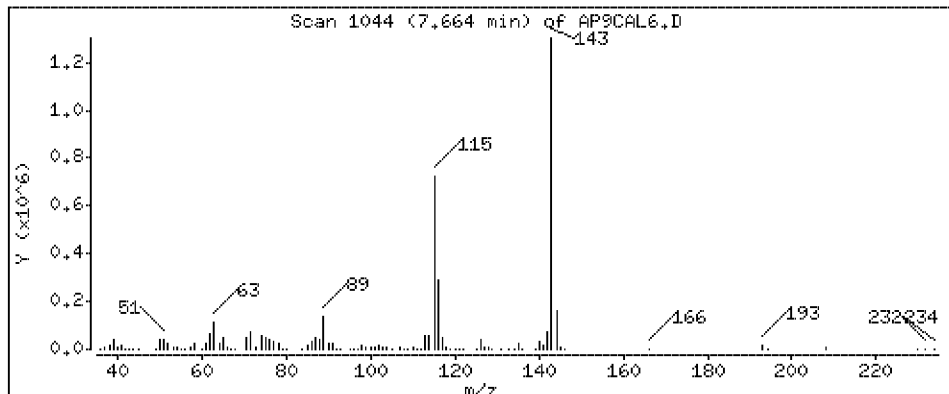
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

79 2-Naphthylamine

Concentration: 79.2 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

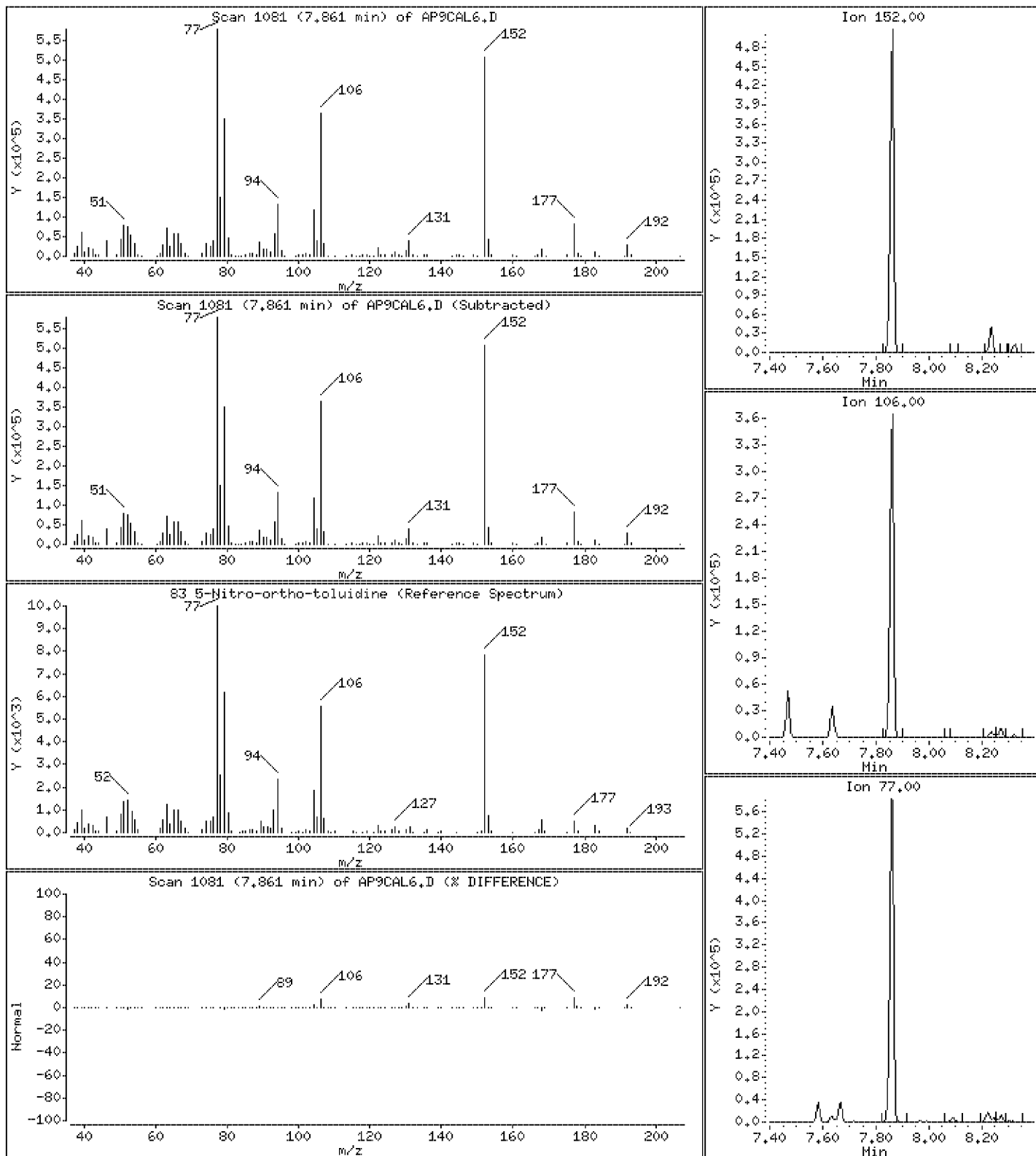
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

83 5-Nitro-ortho-toluidine

Concentration: 81.2 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

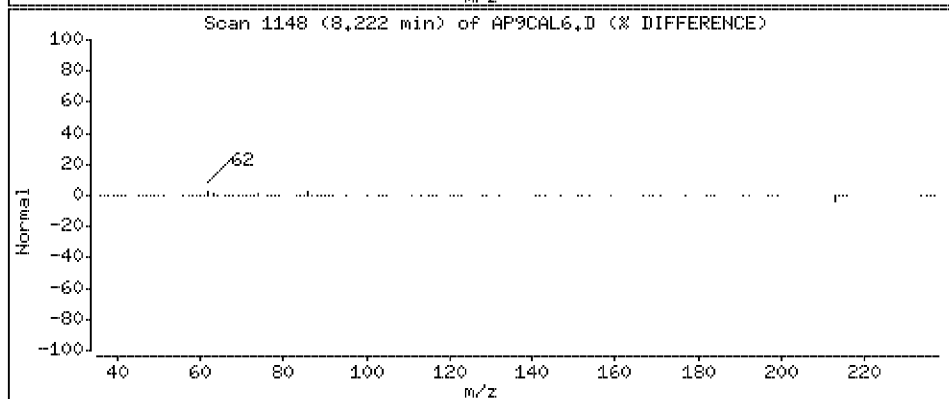
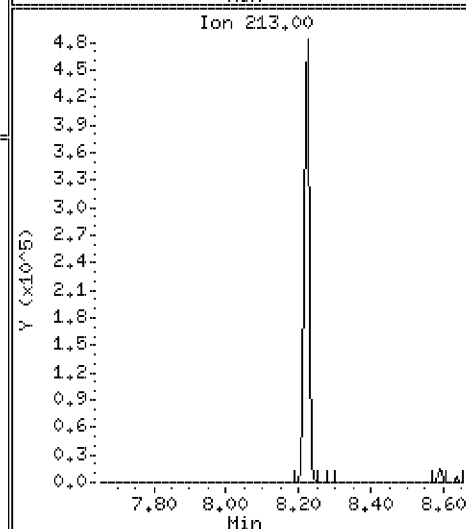
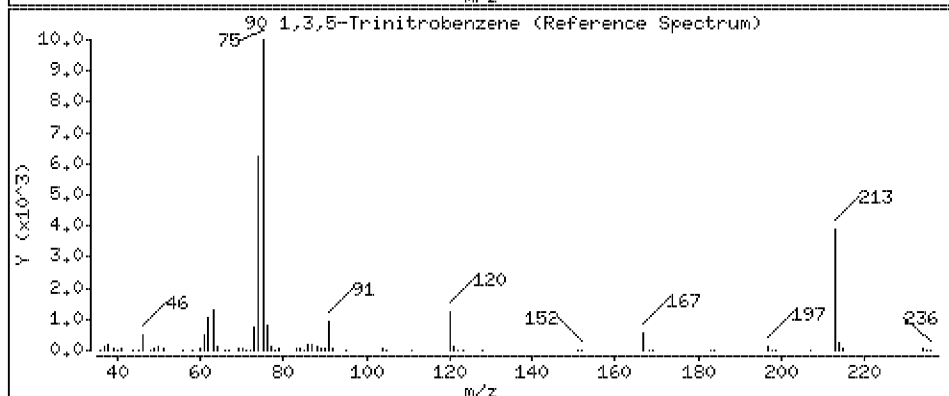
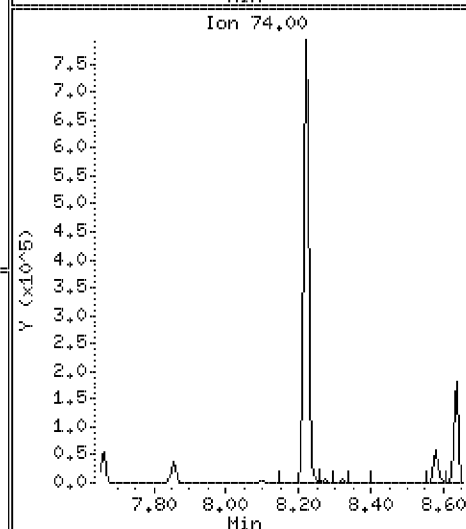
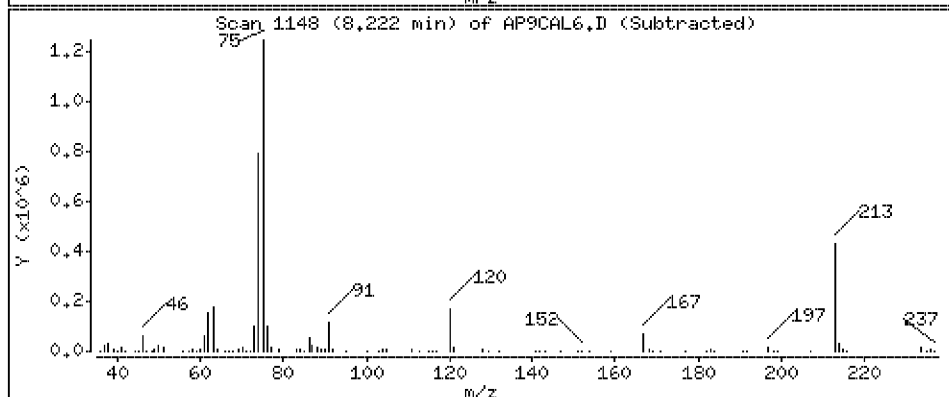
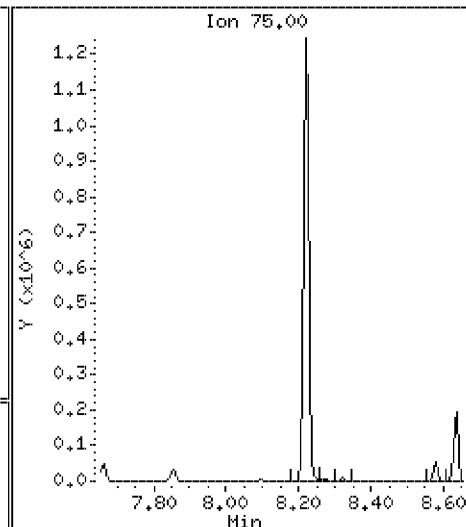
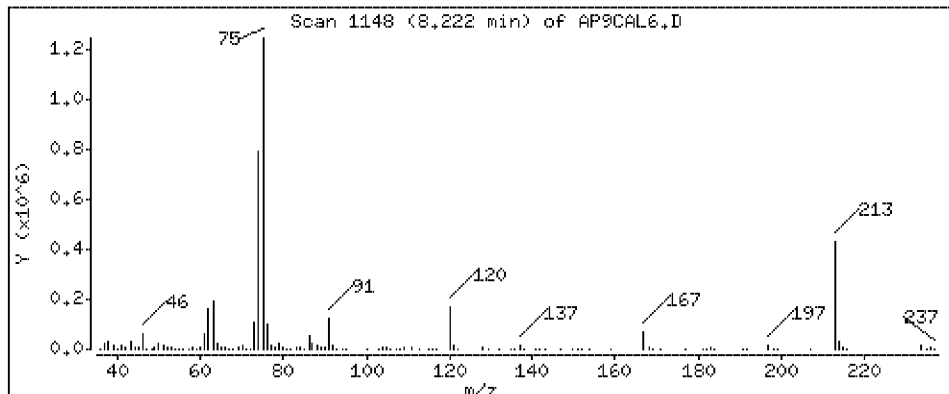
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

90 1,3,5-Trinitrobenzene

Concentration: 73.8 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

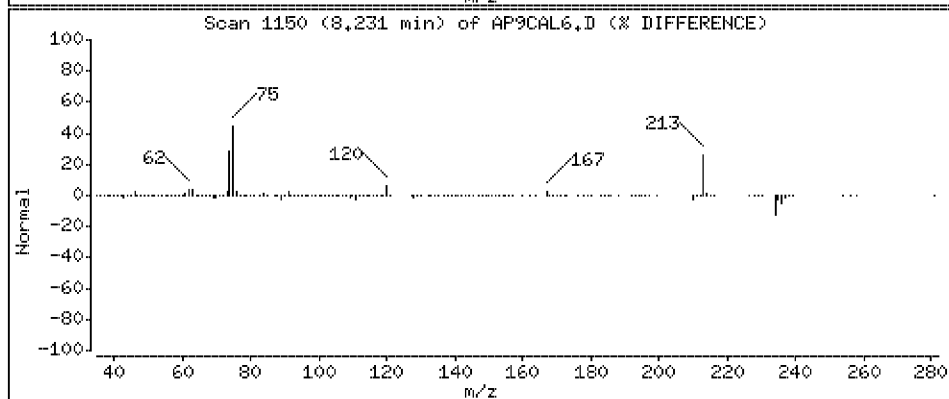
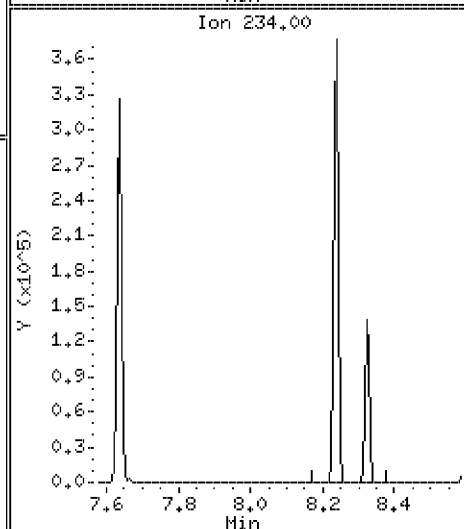
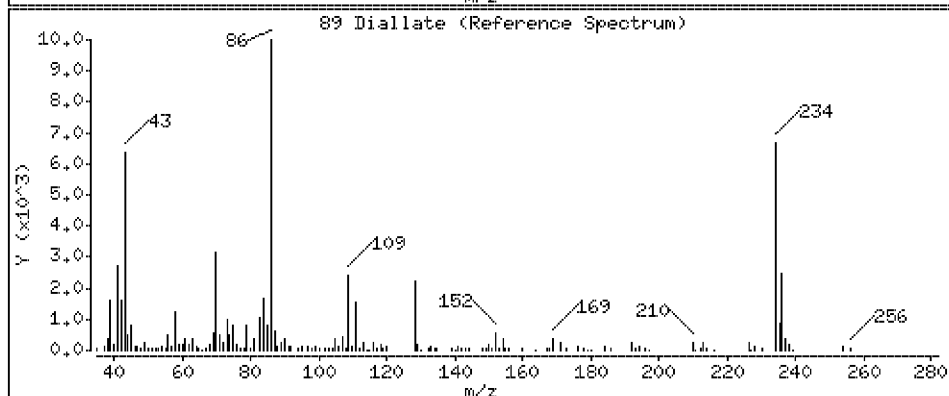
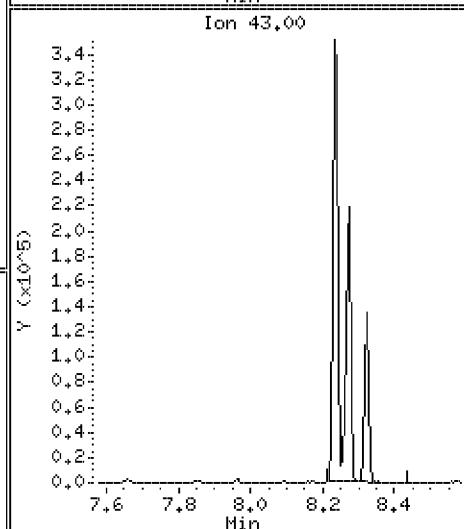
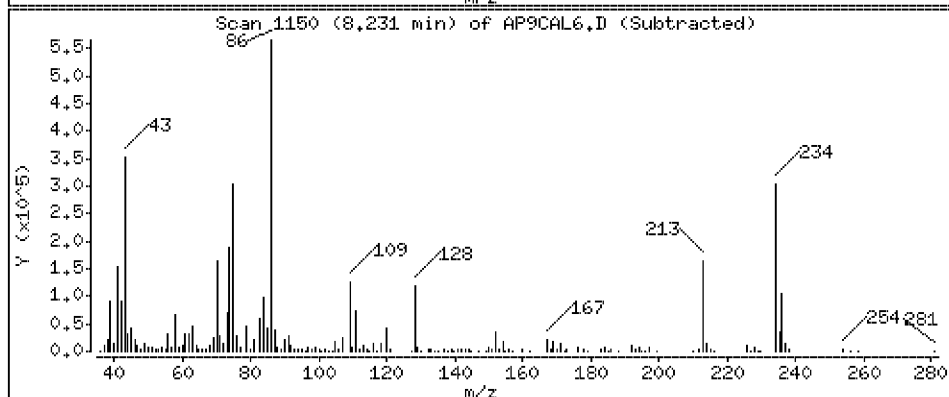
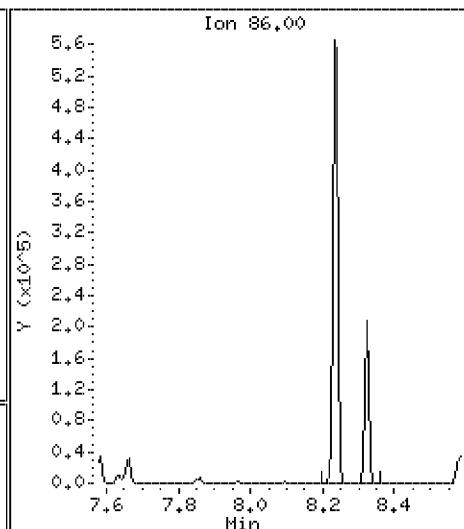
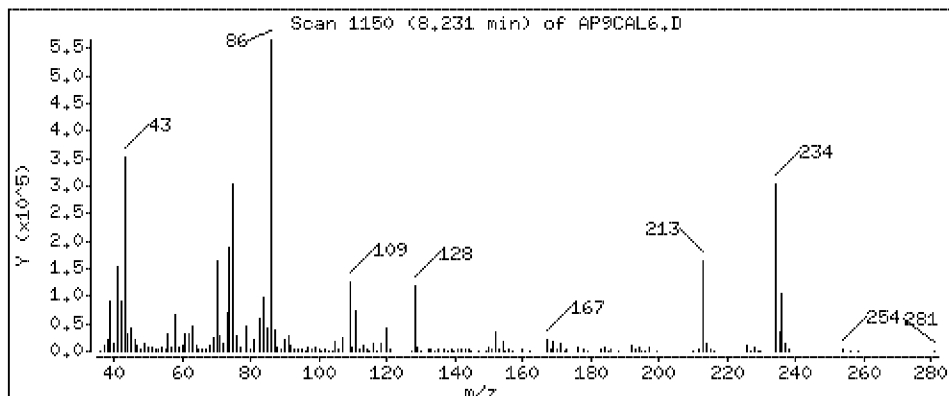
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

89 Diallate

Concentration: 83.0 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

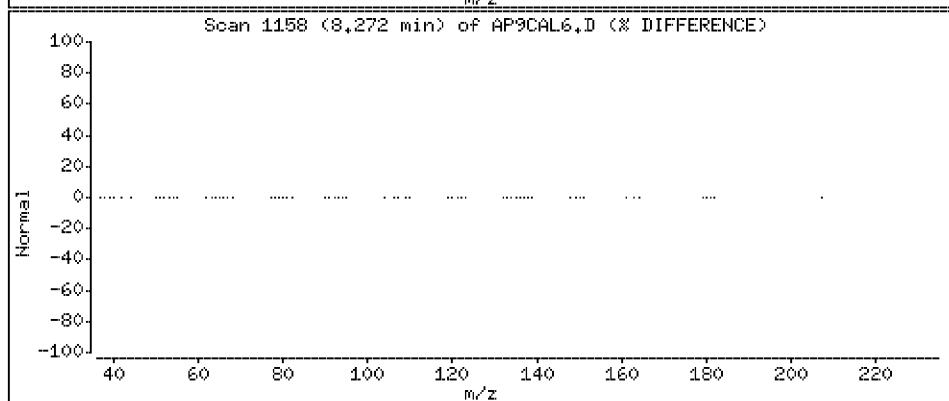
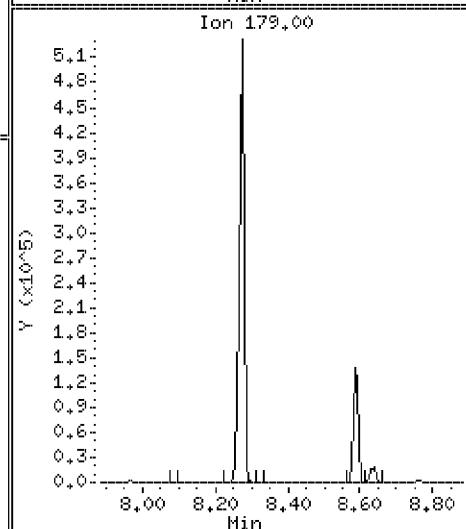
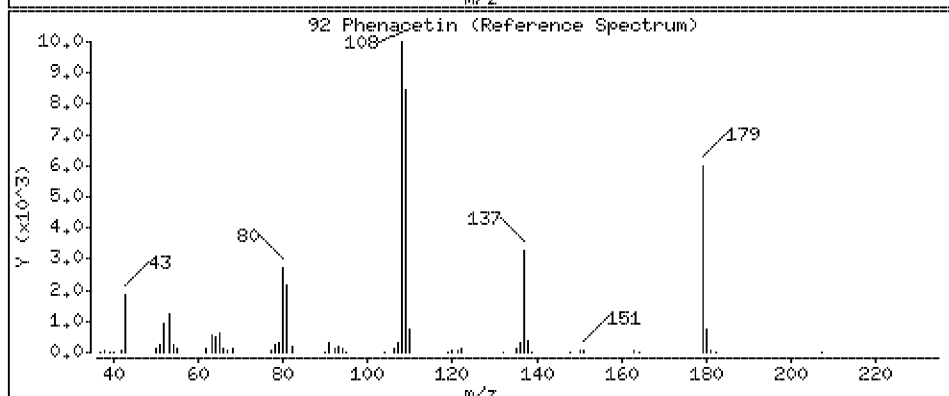
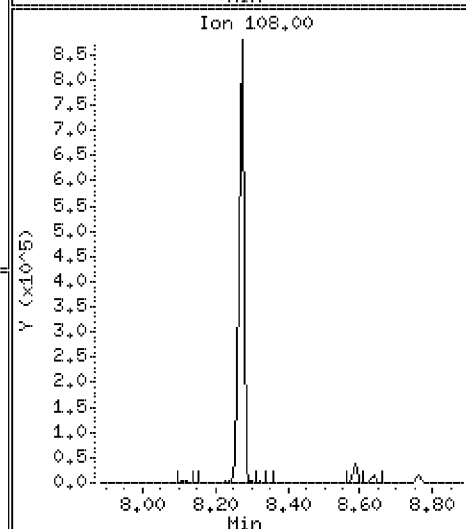
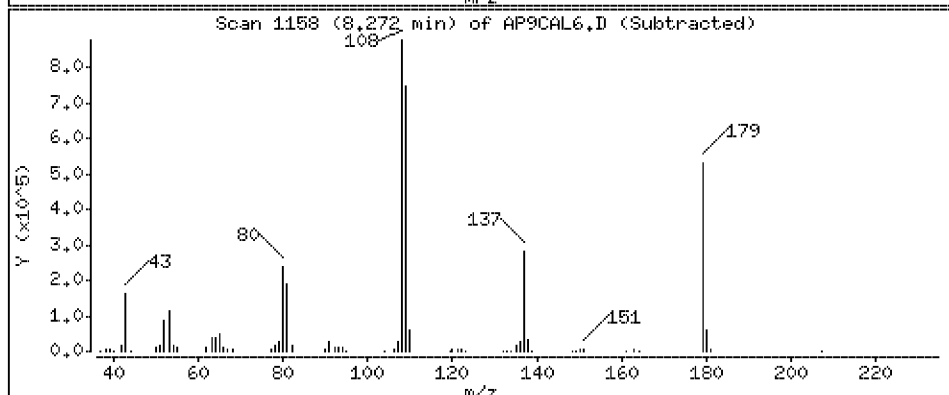
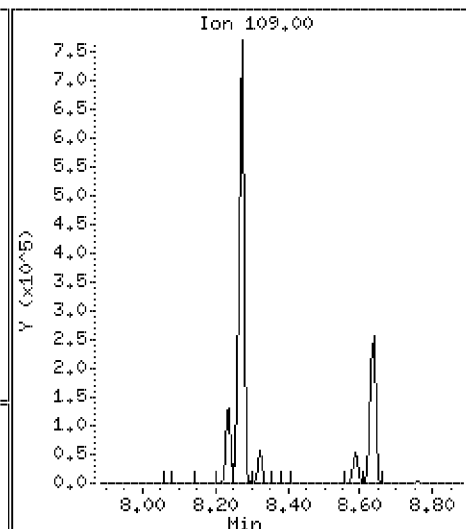
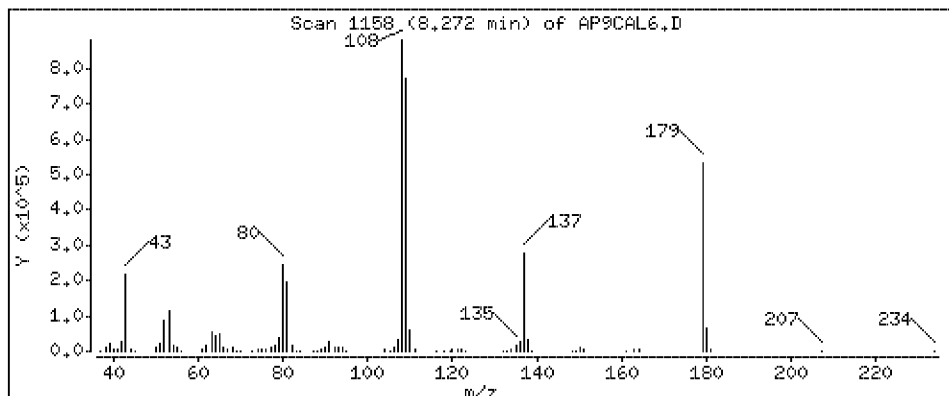
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

92 Phenacetin

Concentration: 76.8 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

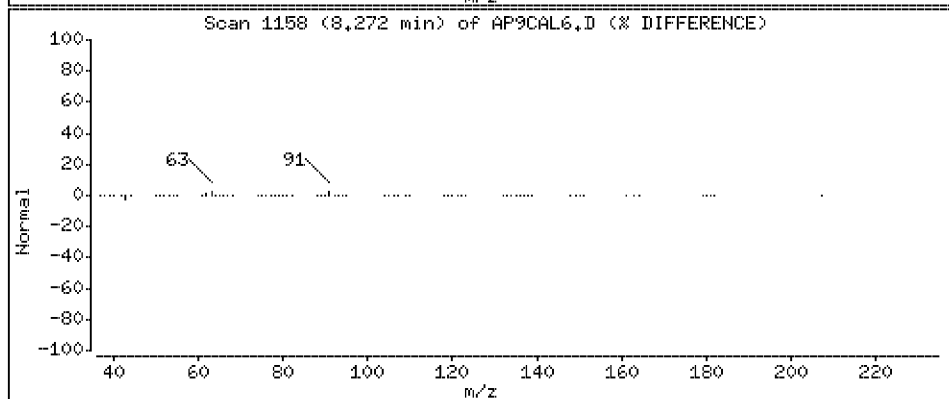
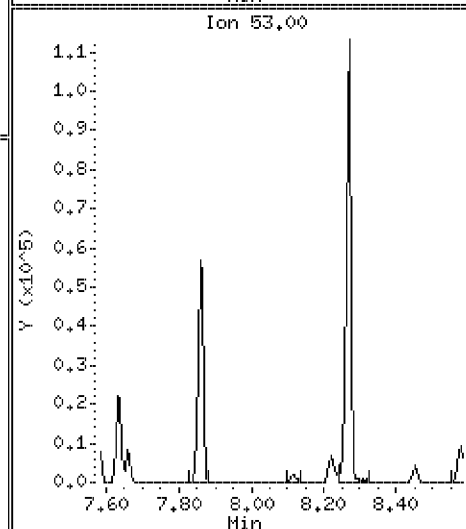
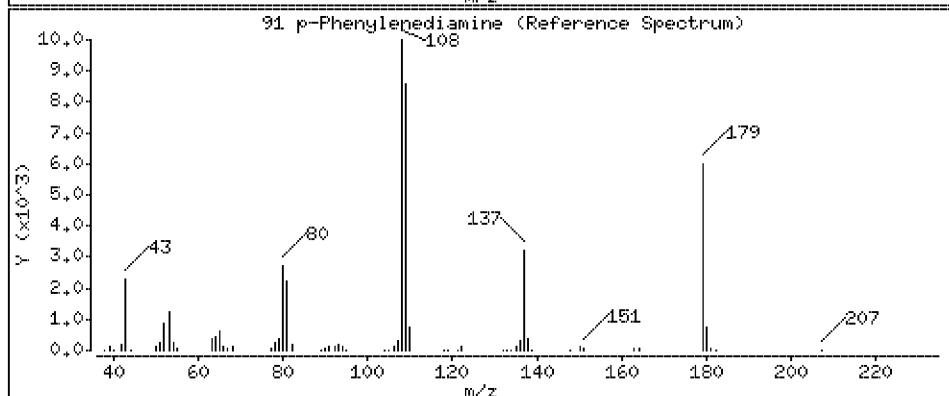
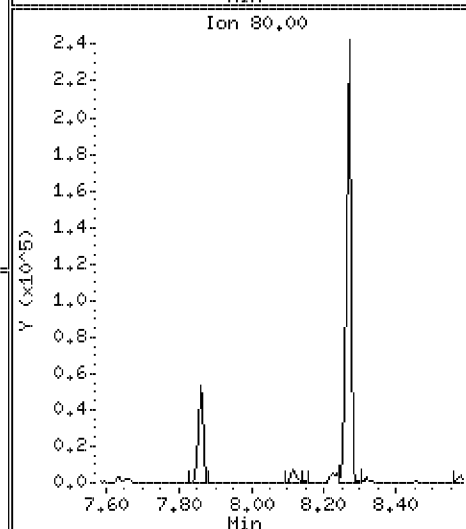
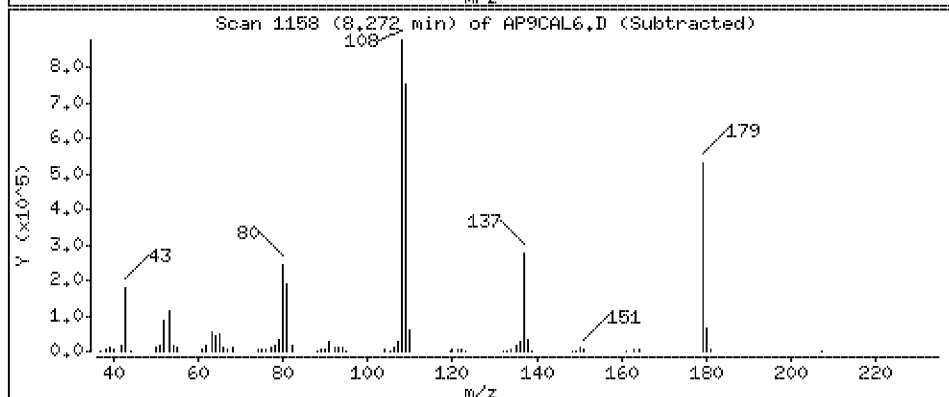
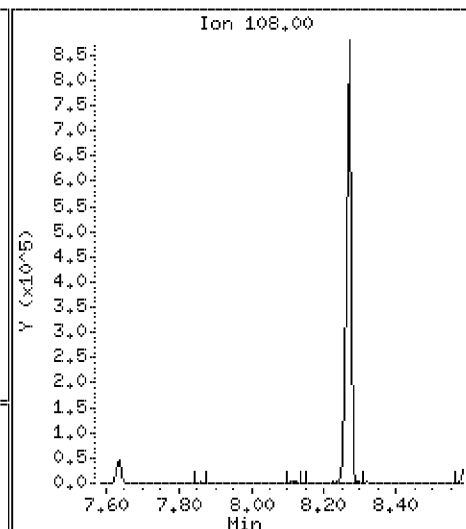
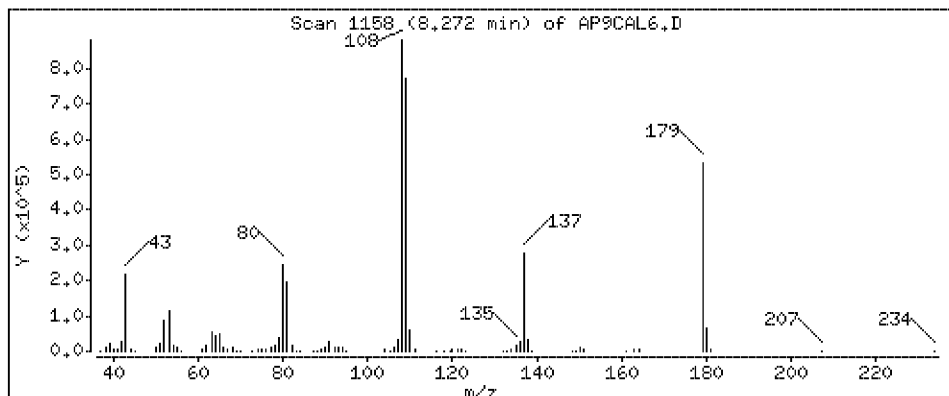
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

91 p-Phenylenediamine

Concentration: 81.4 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

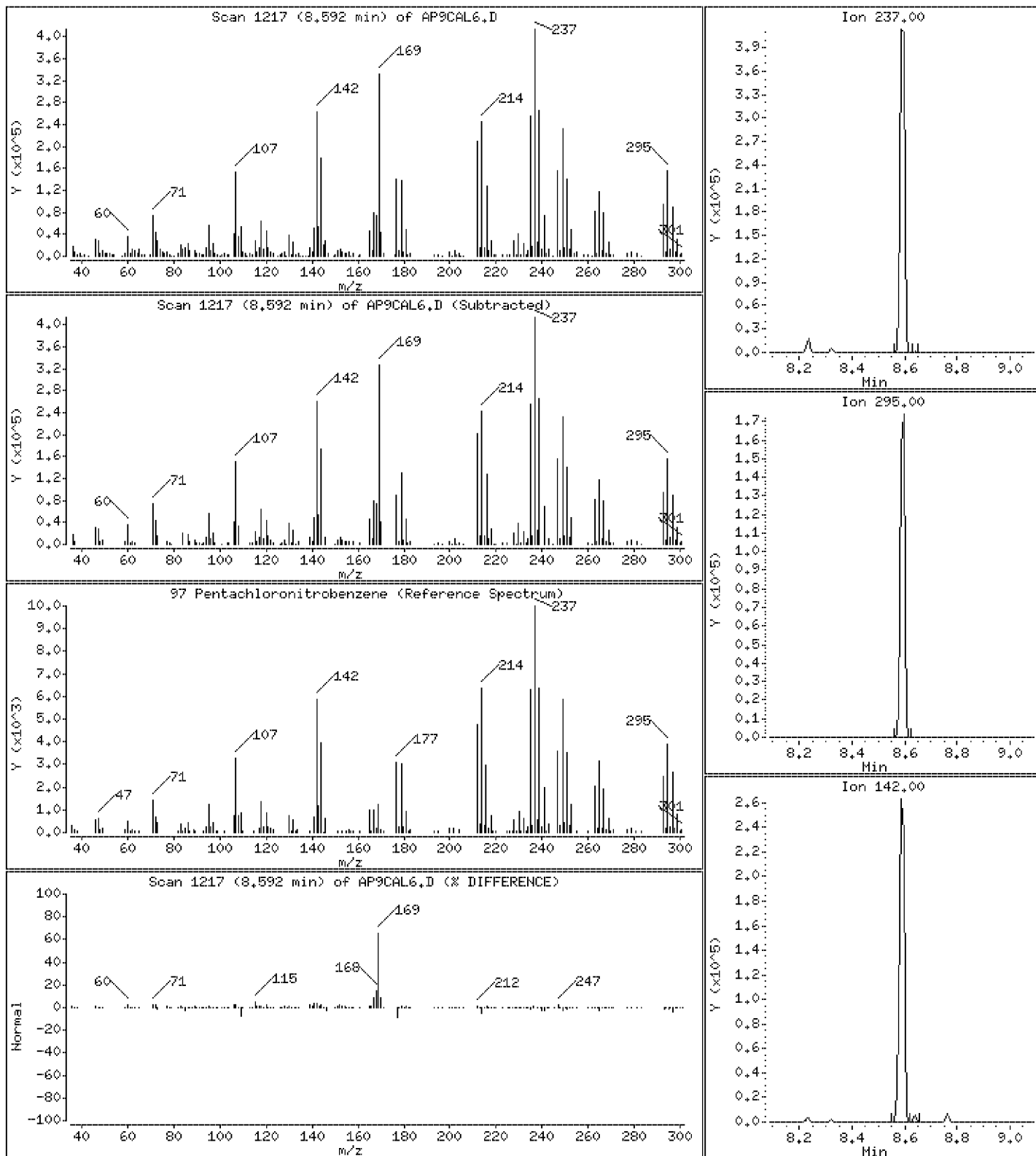
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

97 Pentachloronitrobenzene

Concentration: 81.8 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

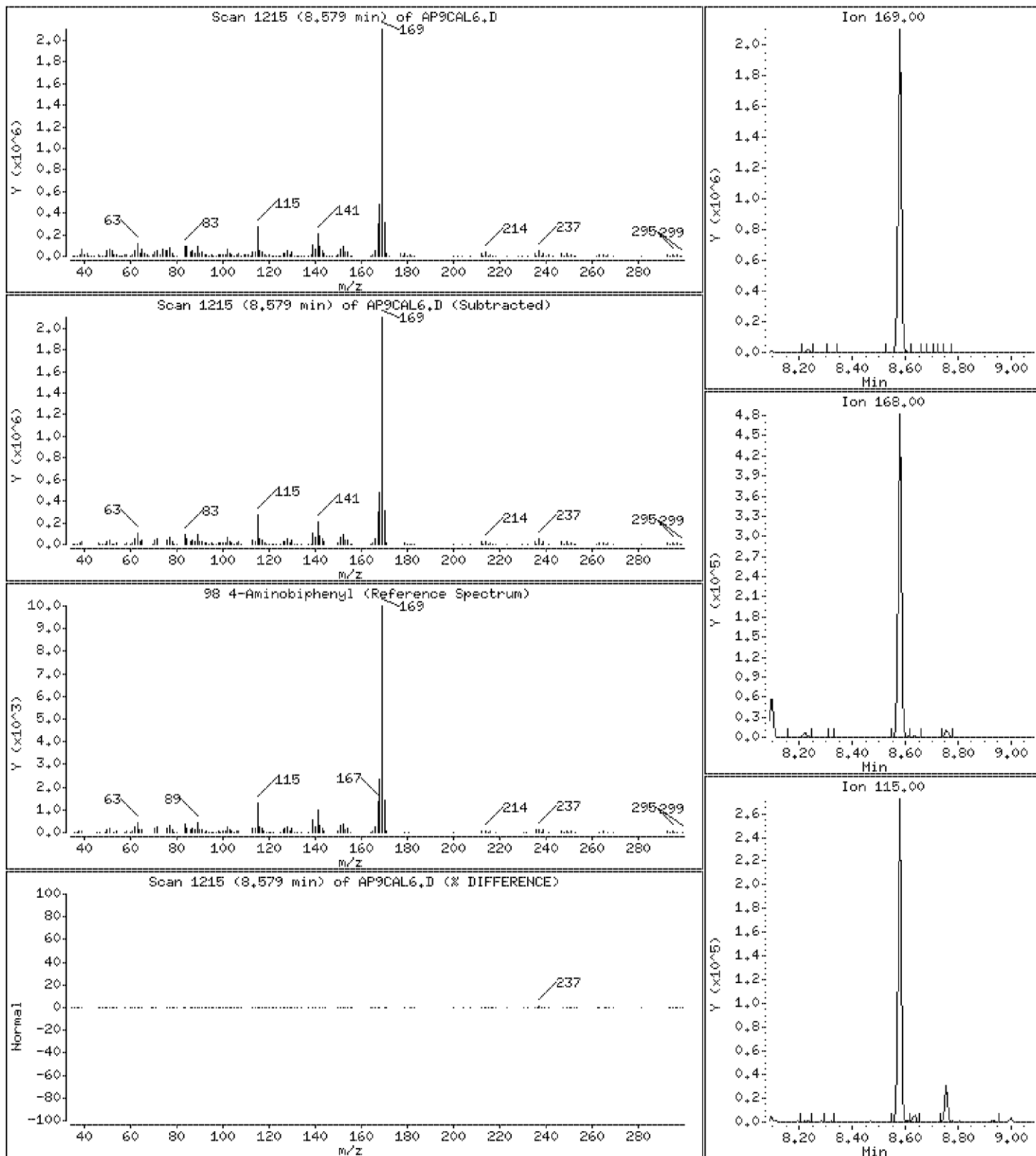
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

98 4-Aminobiphenyl

Concentration: 77.0 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

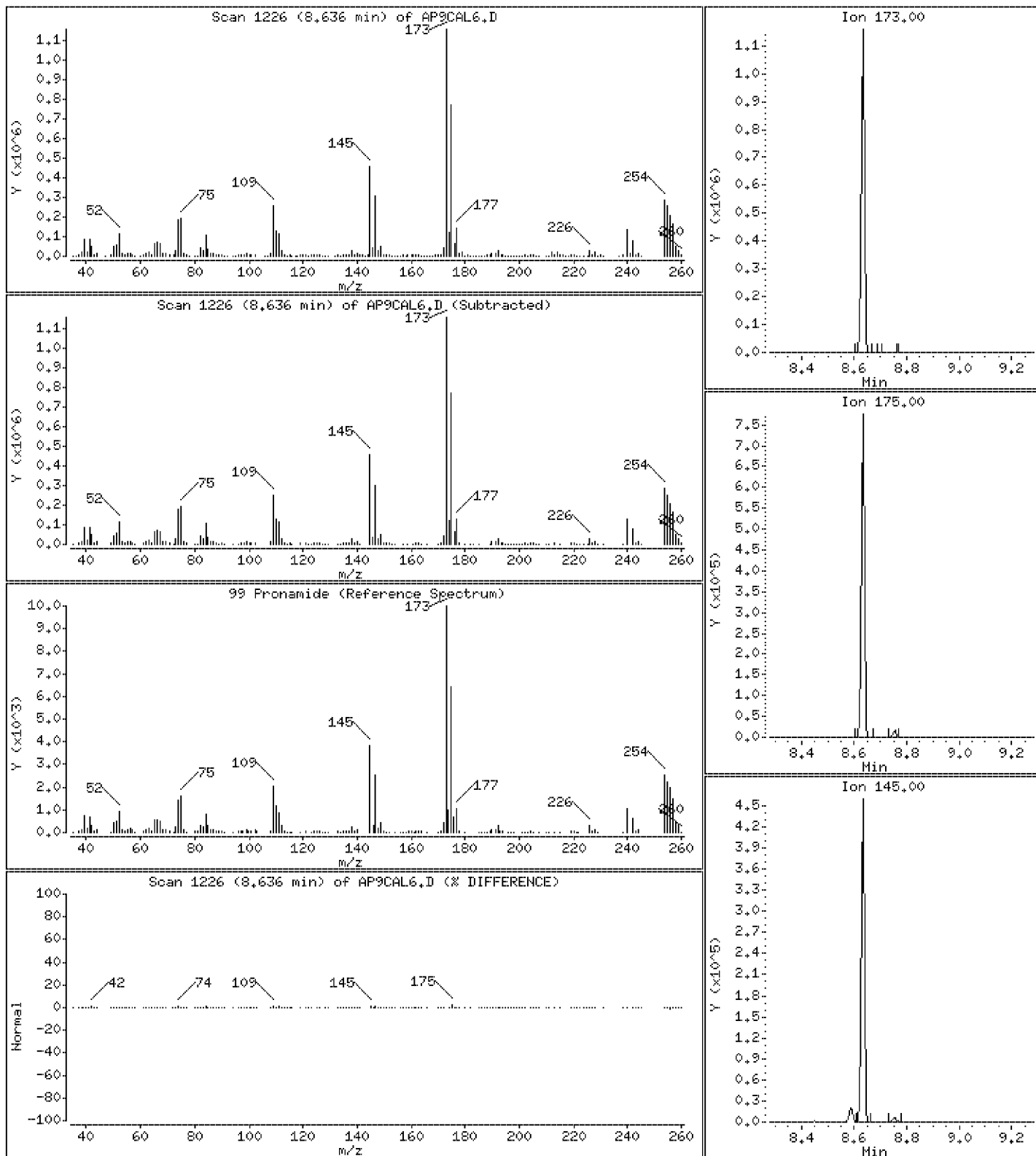
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

99 Pronamide

Concentration: 79.0 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

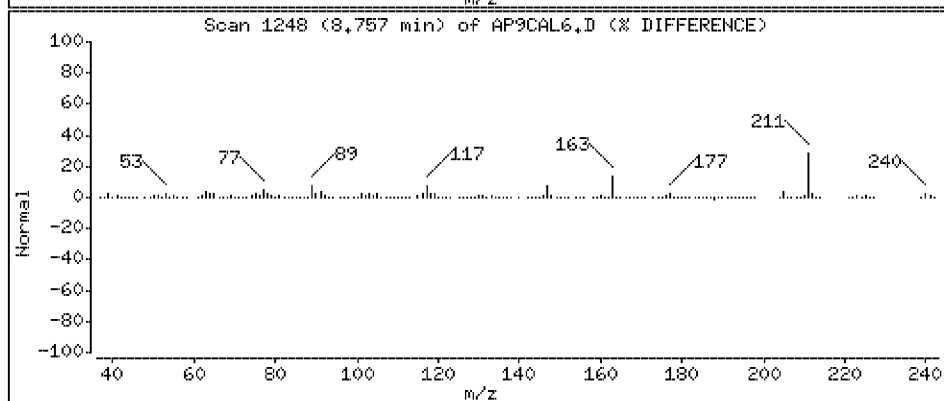
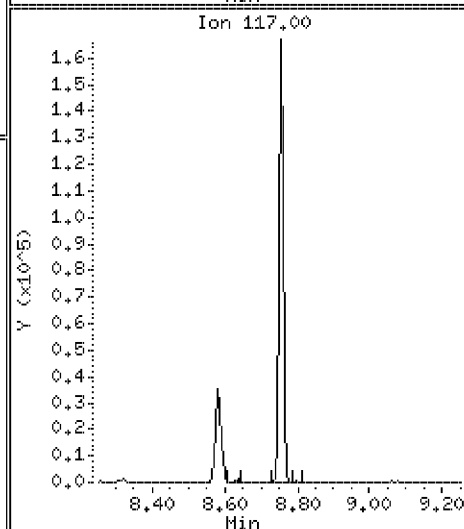
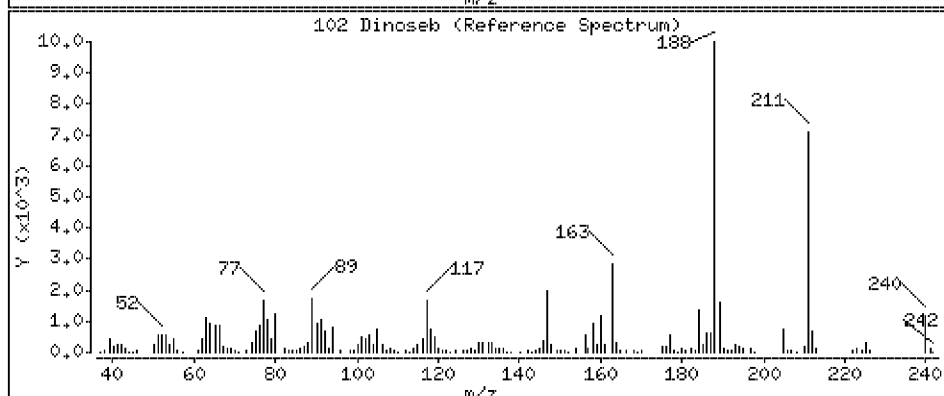
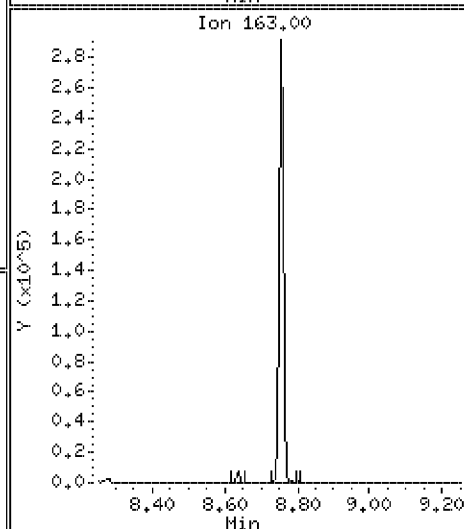
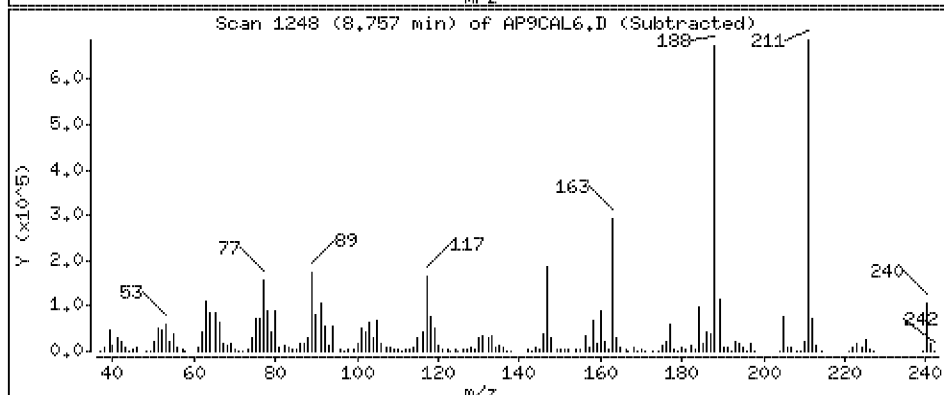
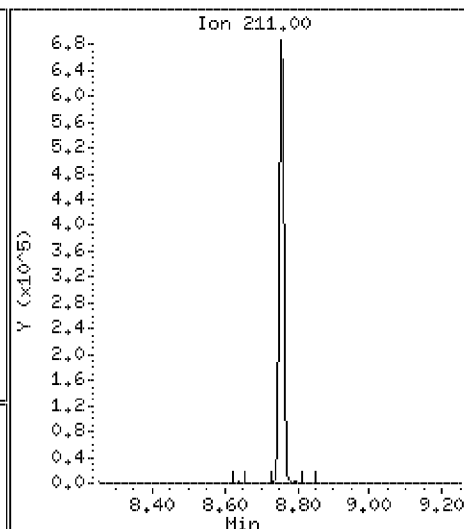
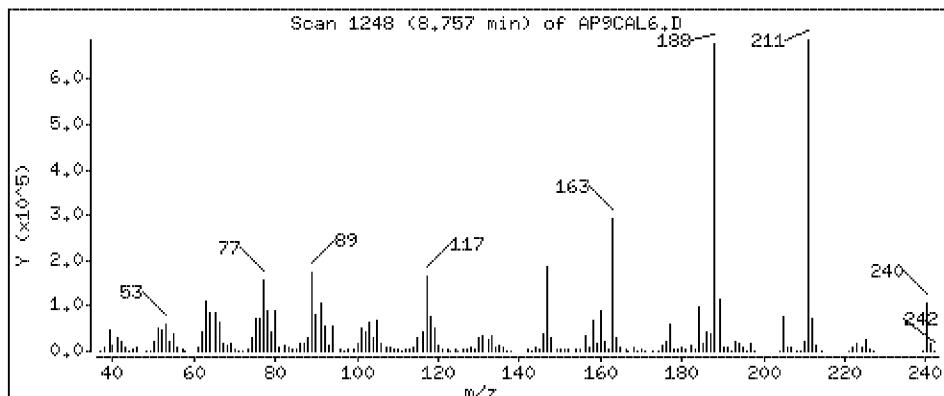
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

102 Dinoseb

Concentration: 74.9 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

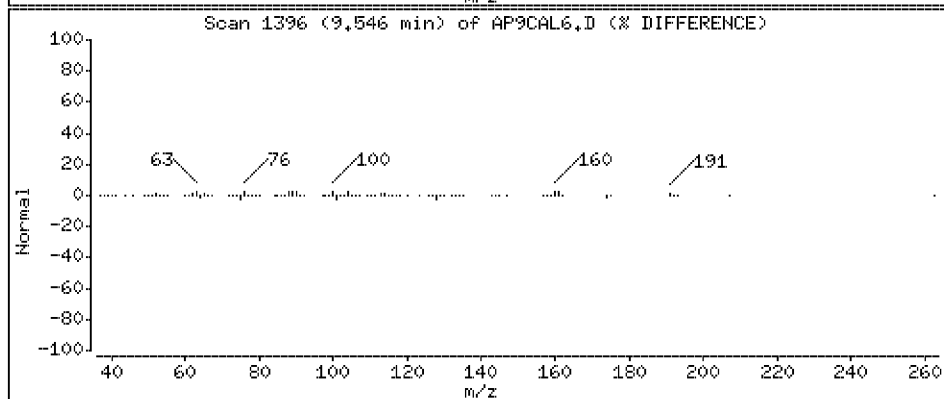
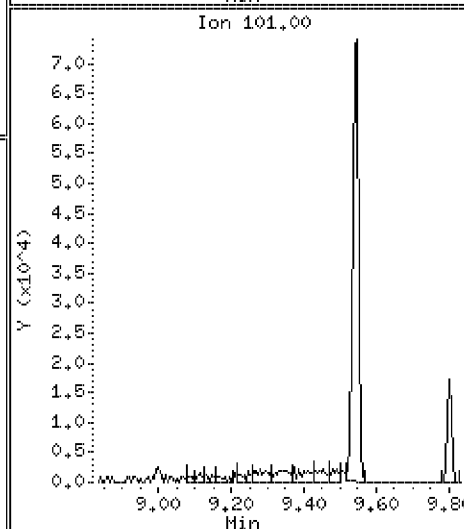
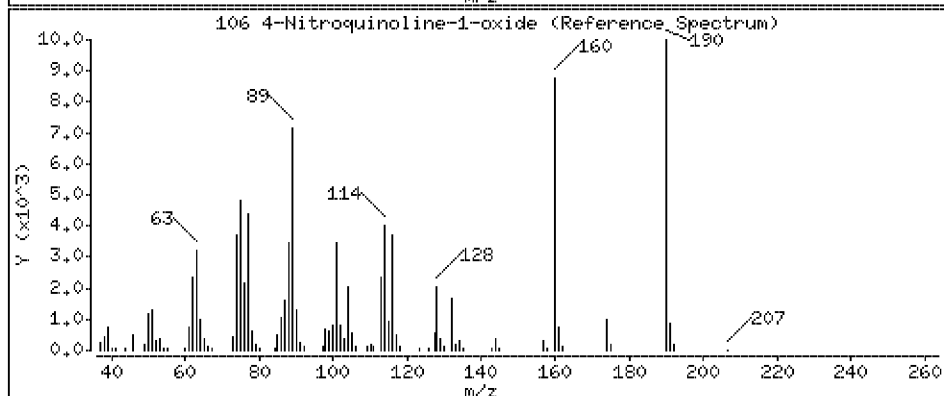
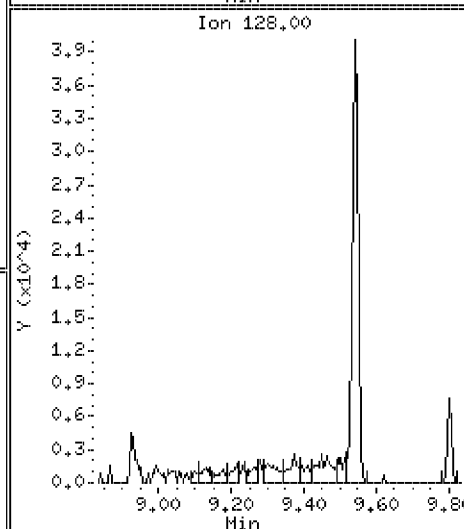
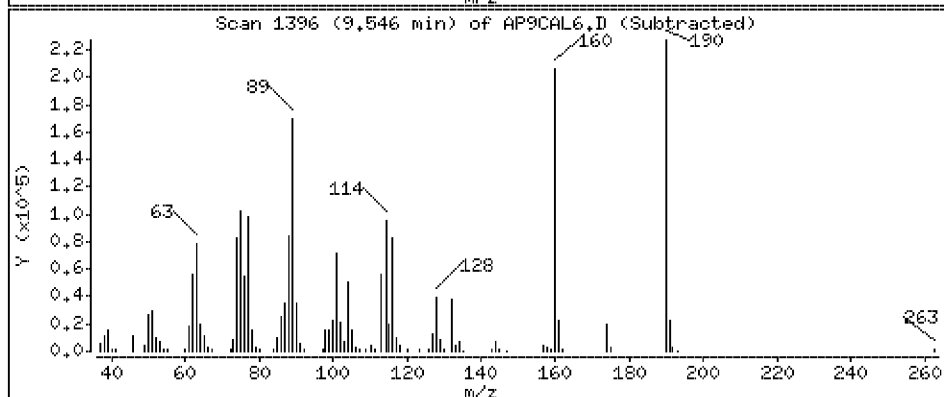
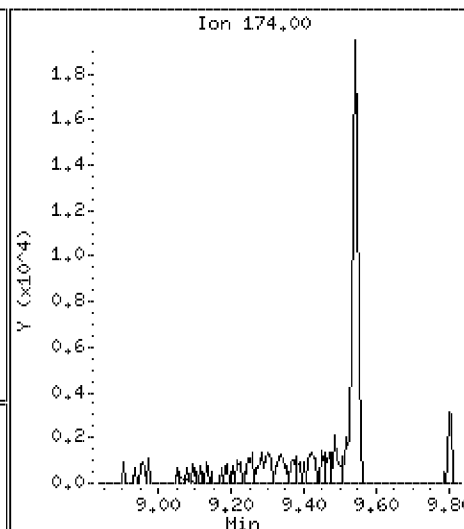
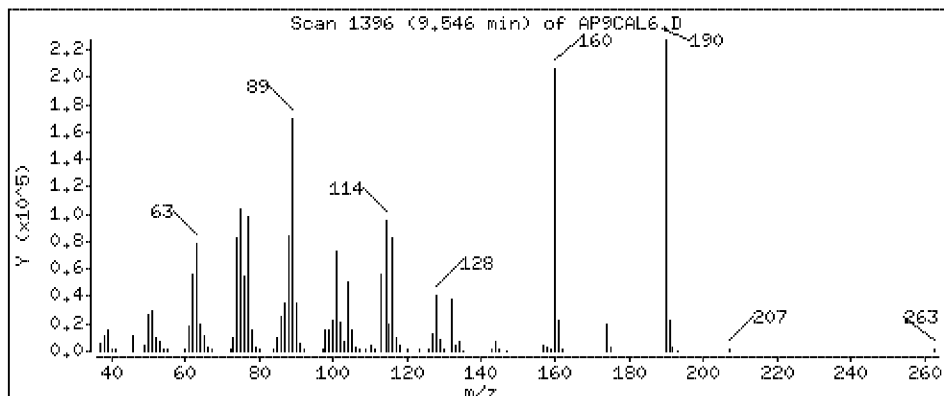
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

106 4-Nitroquinoline-1-oxide

Concentration: 76.9 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

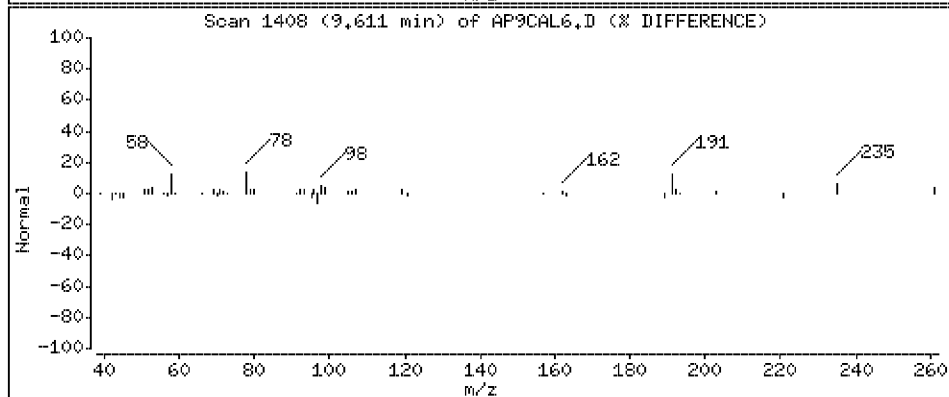
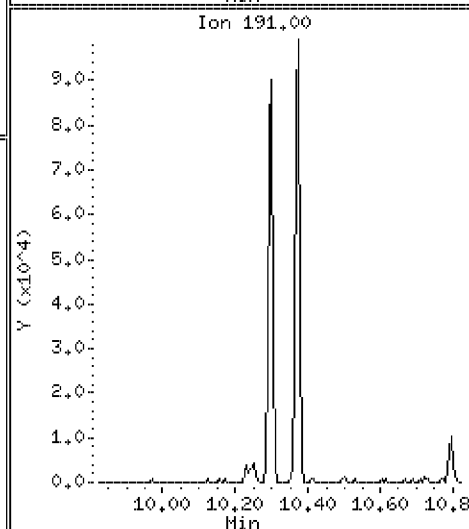
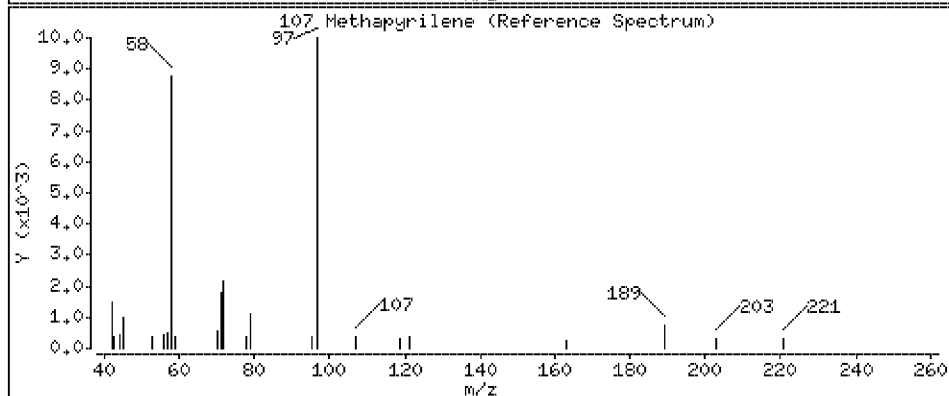
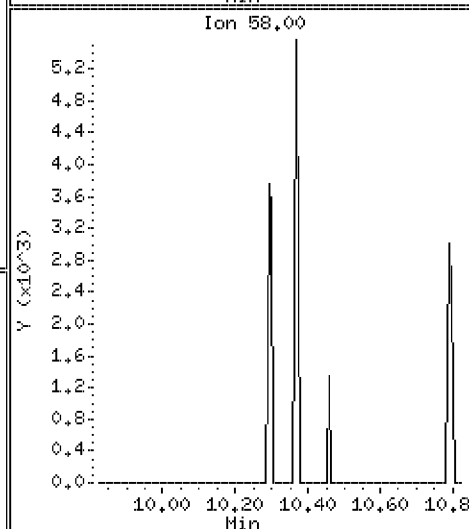
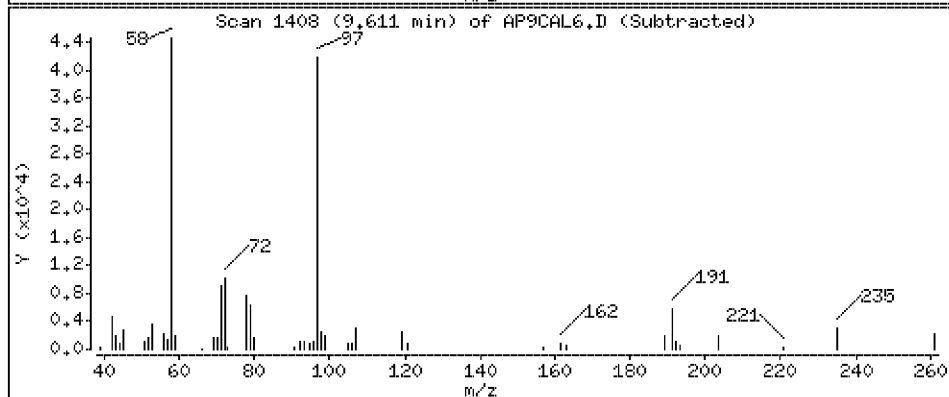
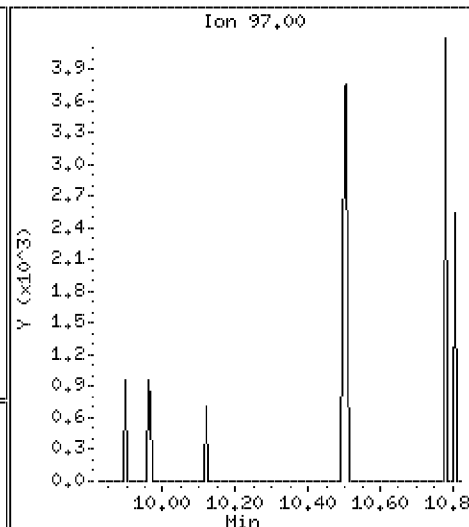
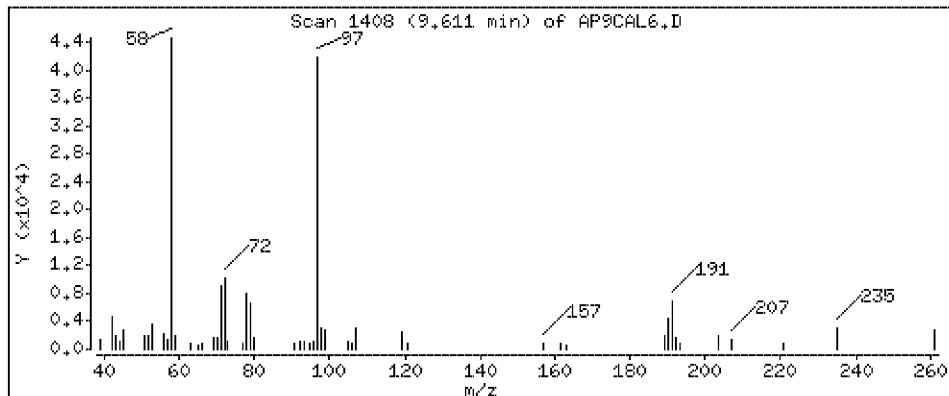
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

107 Methapyrilene

Concentration: 79.0 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

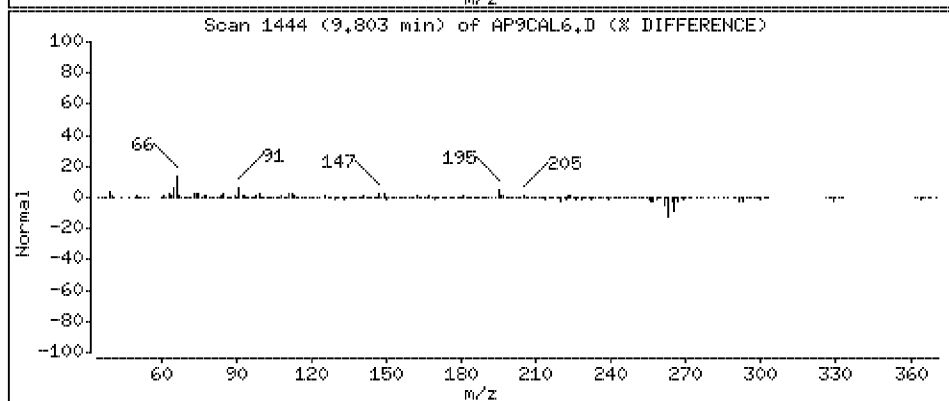
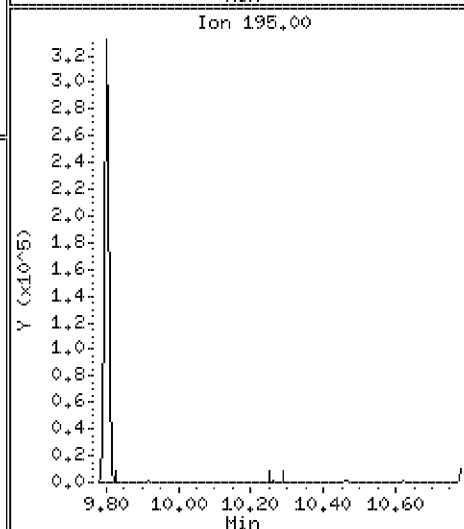
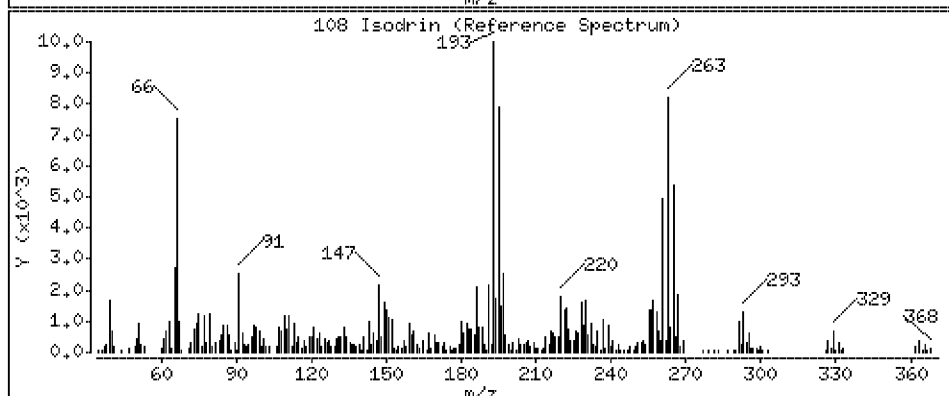
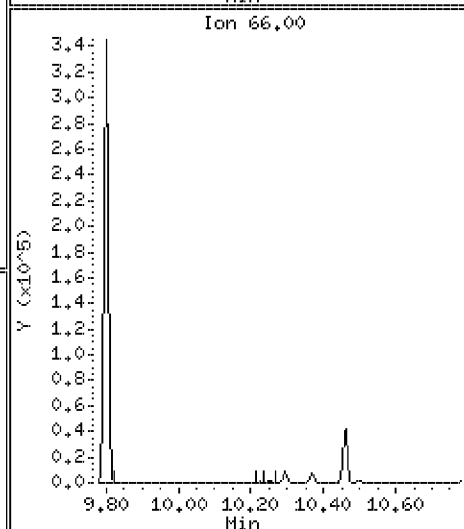
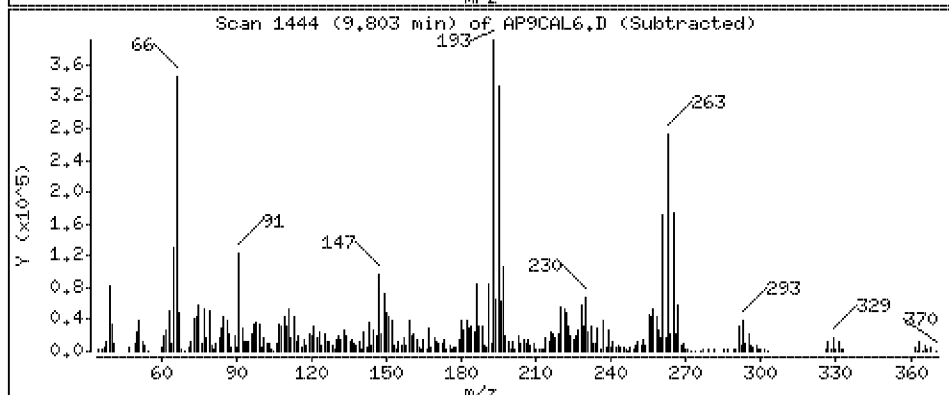
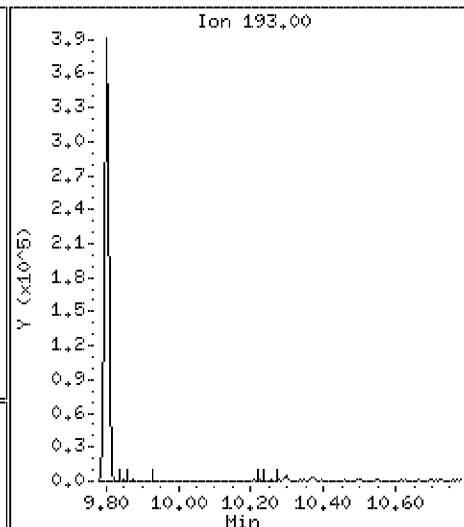
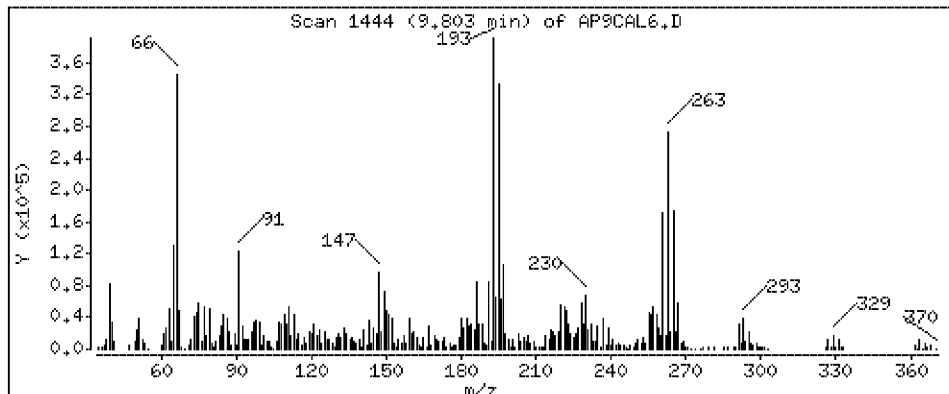
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

108 Isodrin

Concentration: 77.1 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

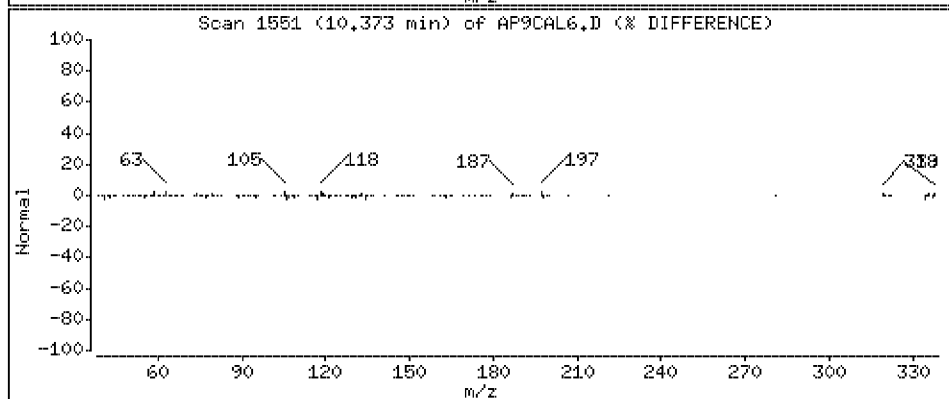
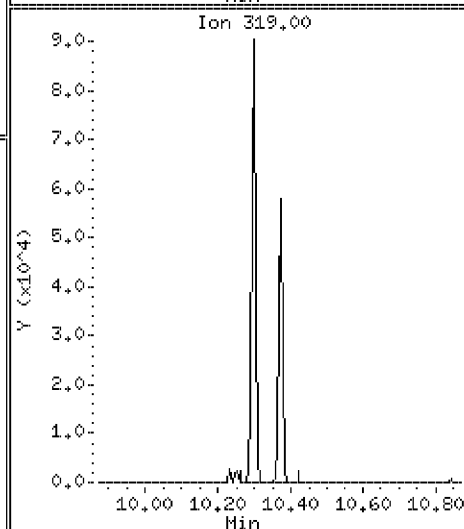
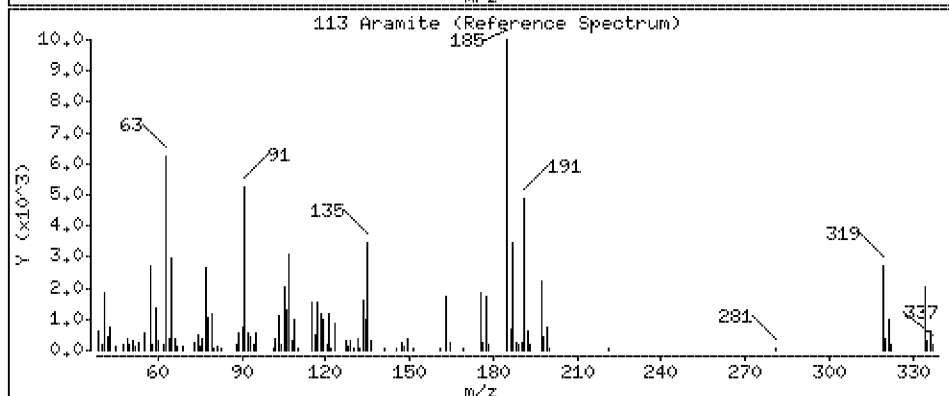
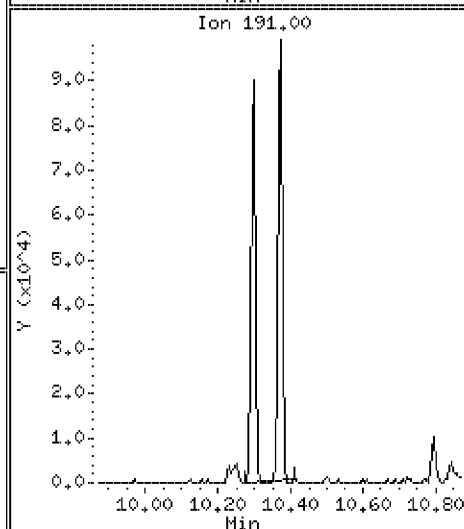
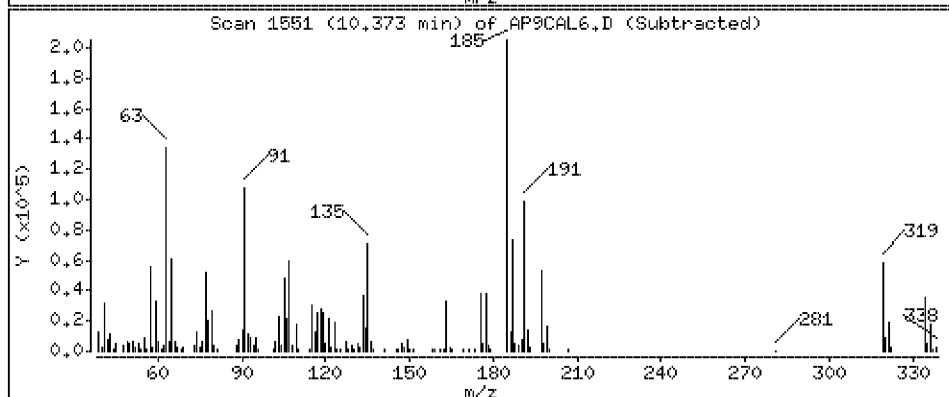
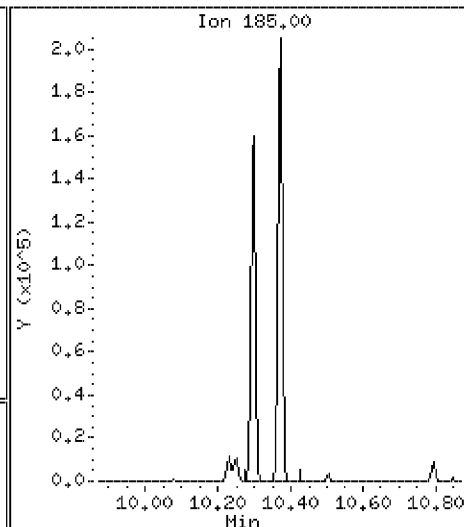
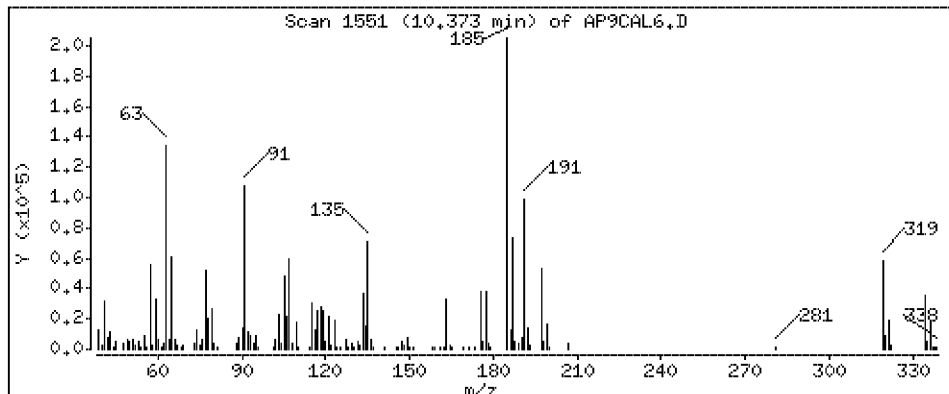
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

113 Aramite

Concentration: 80.8 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

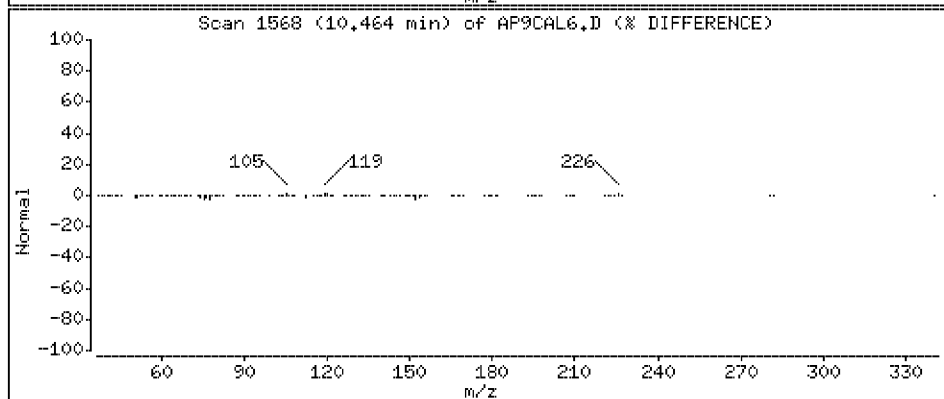
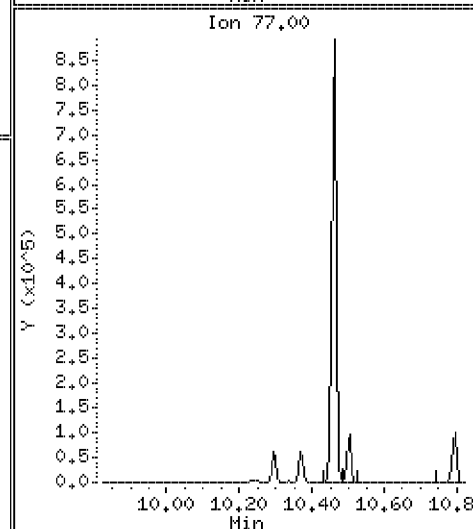
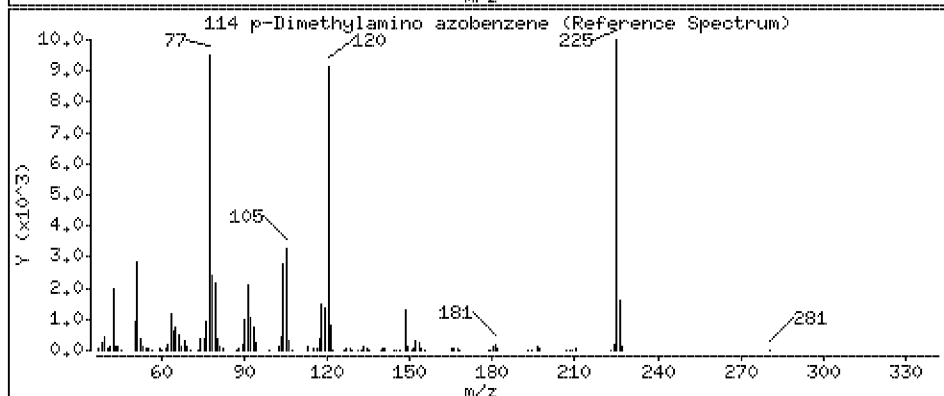
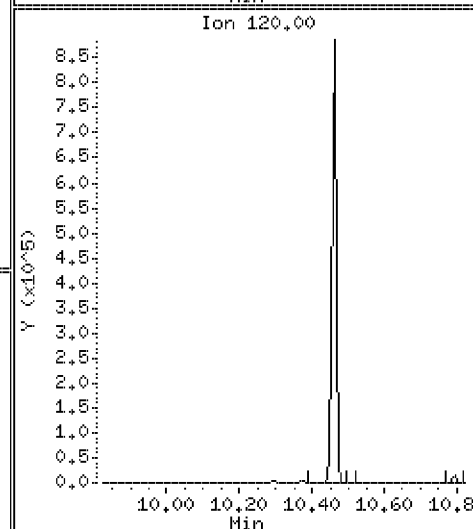
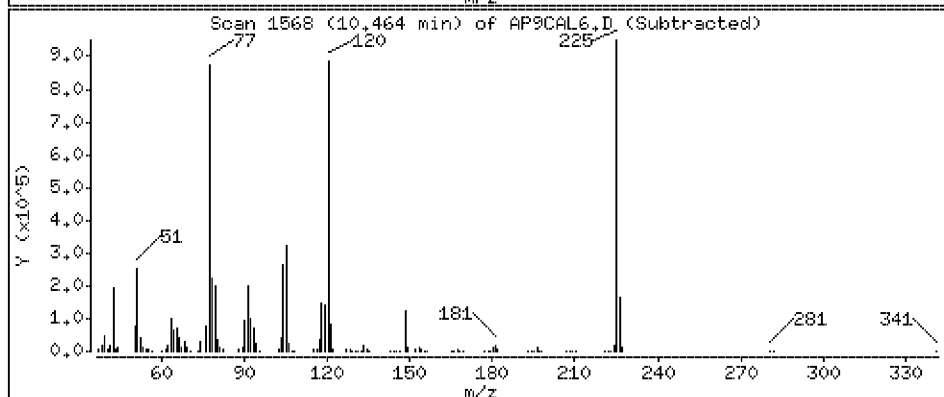
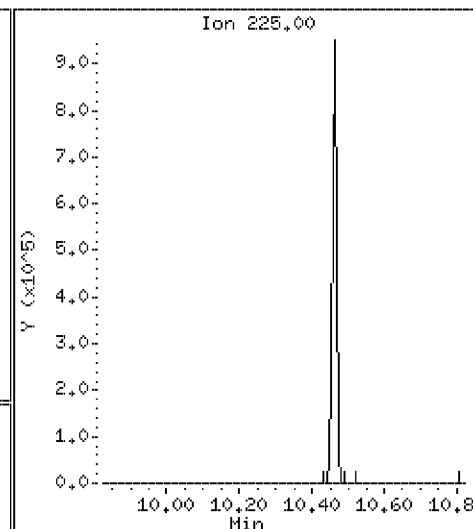
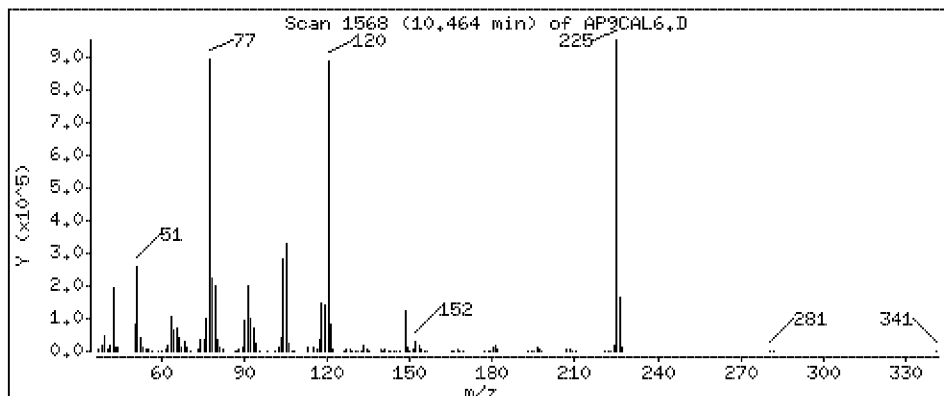
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

114 p-Dimethylamino azobenzene

Concentration: 83.4 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

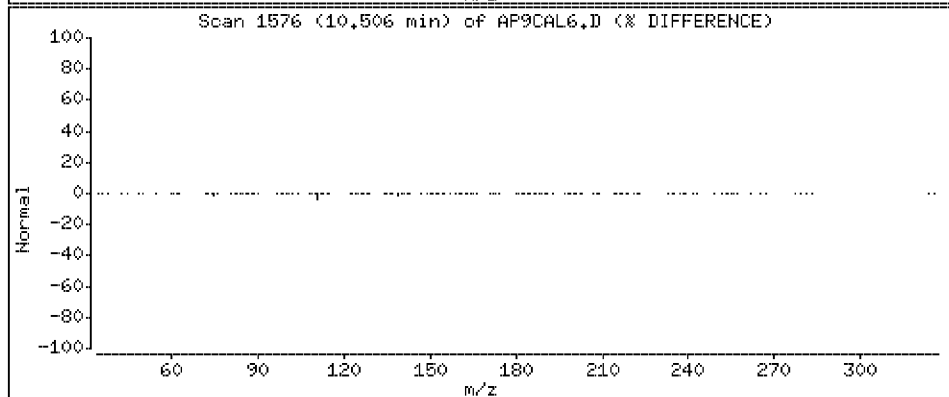
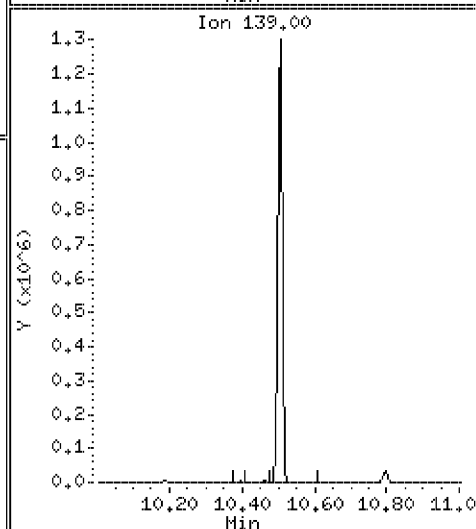
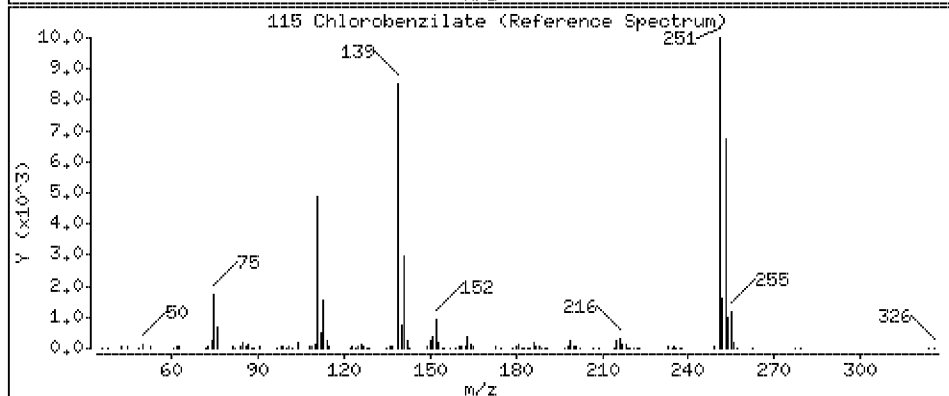
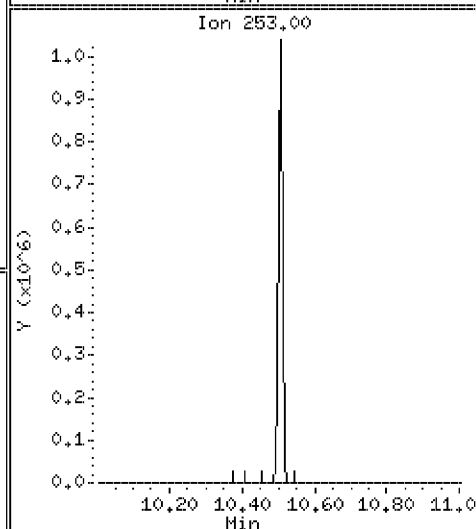
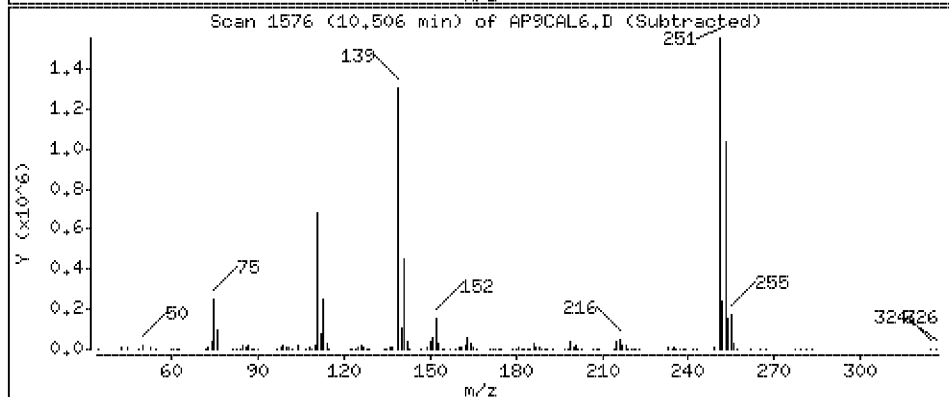
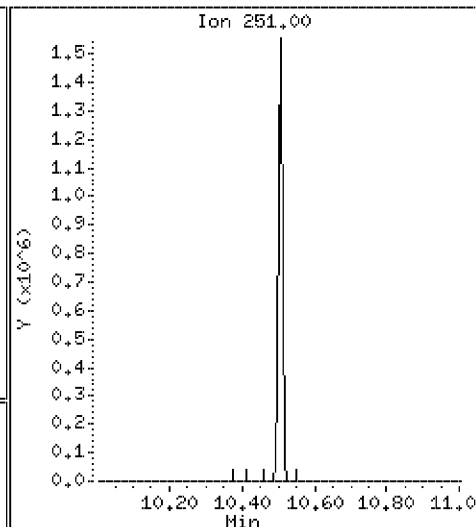
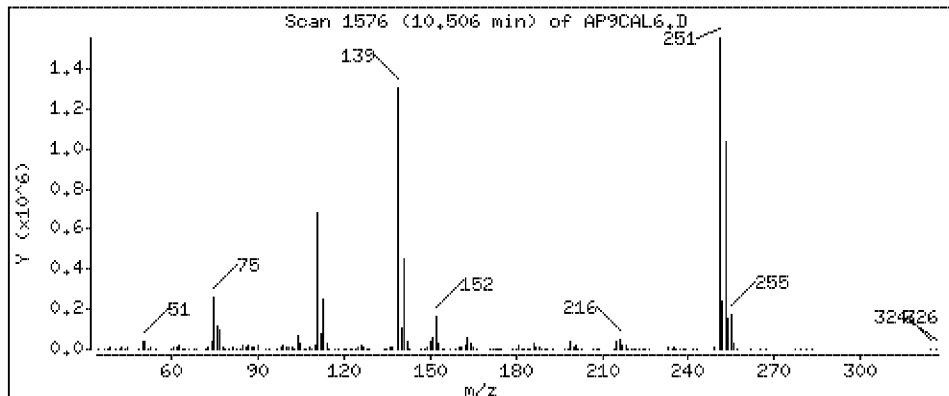
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

115 Chlorobenzilate

Concentration: 84.3 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

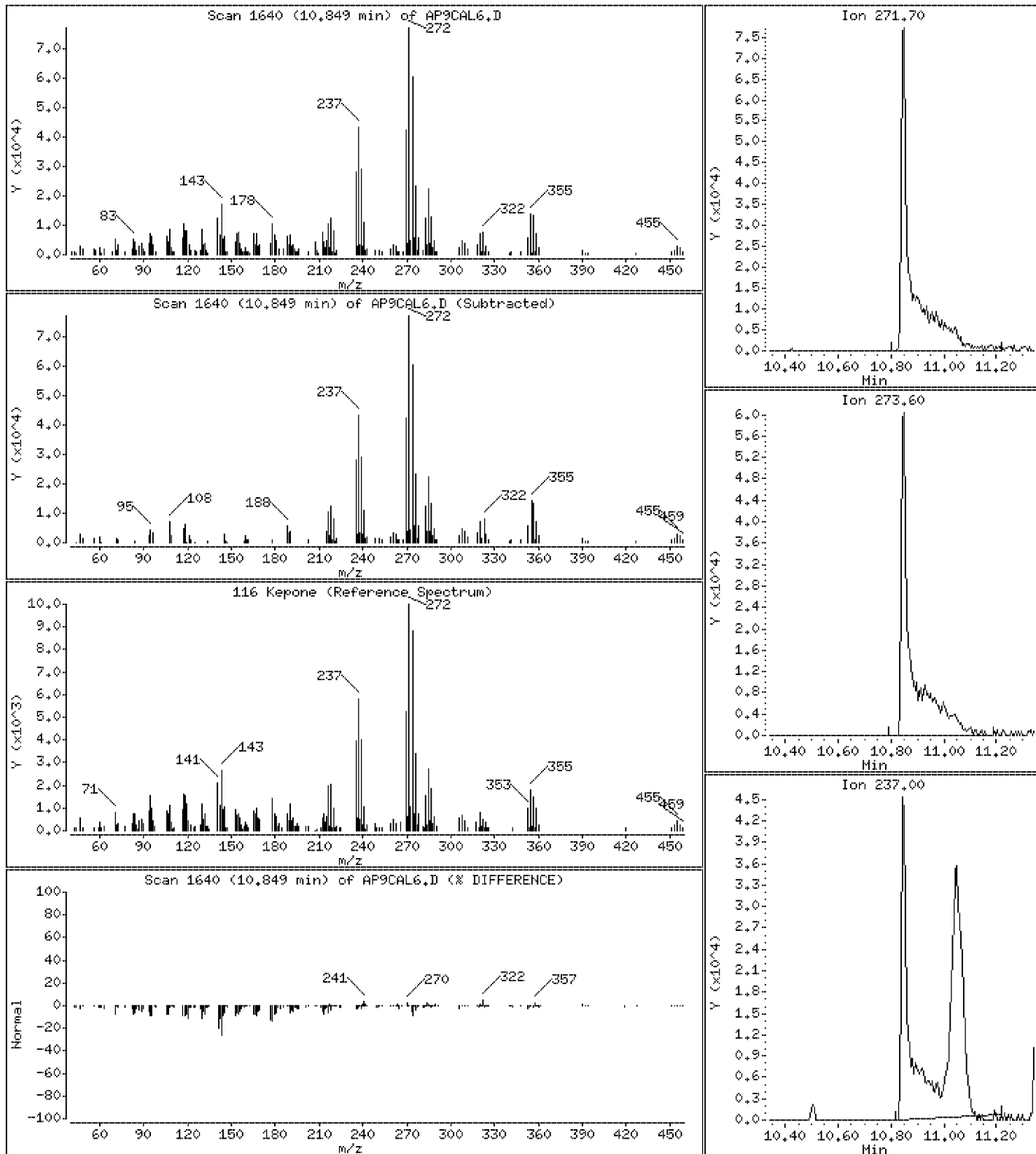
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

116 Kepone

Concentration: 80,5 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

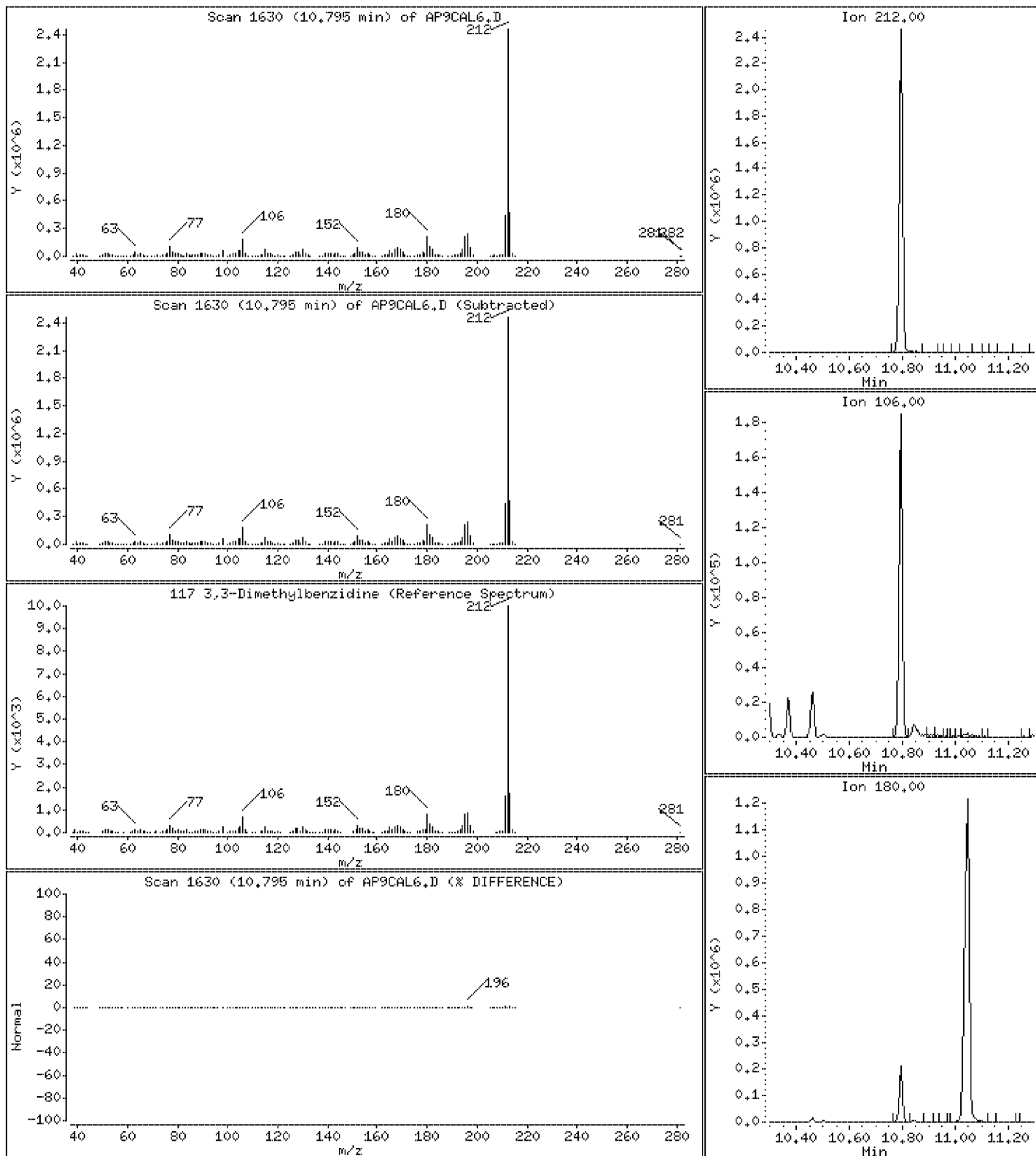
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

117 3,3-Dimethylbenzidine

Concentration: 76.3 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

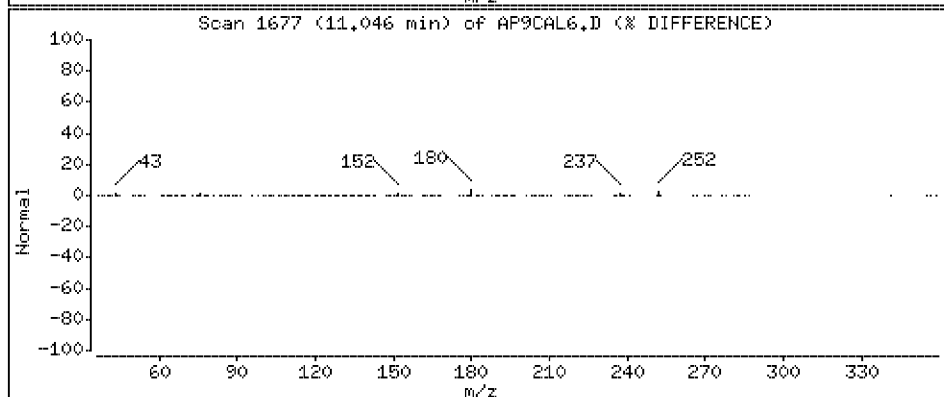
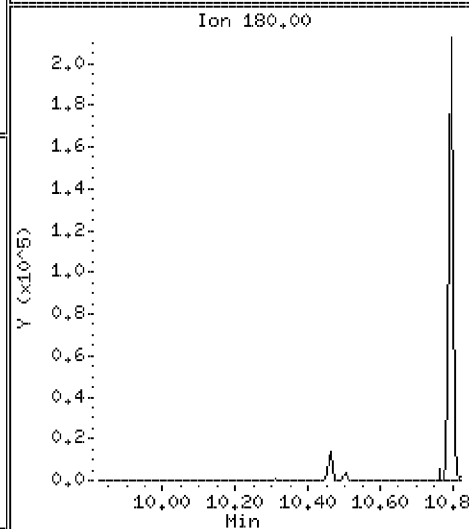
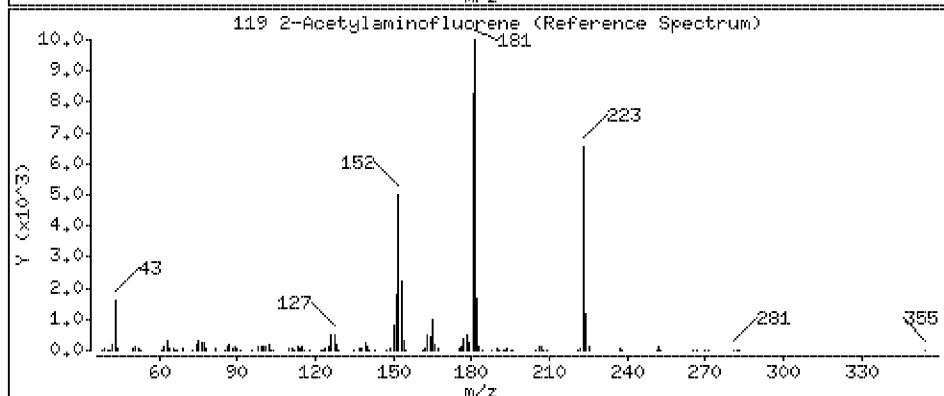
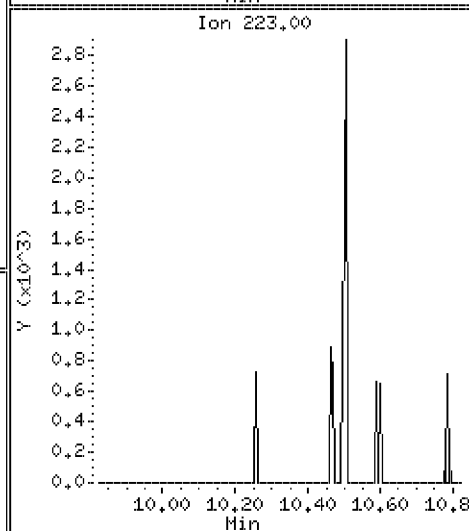
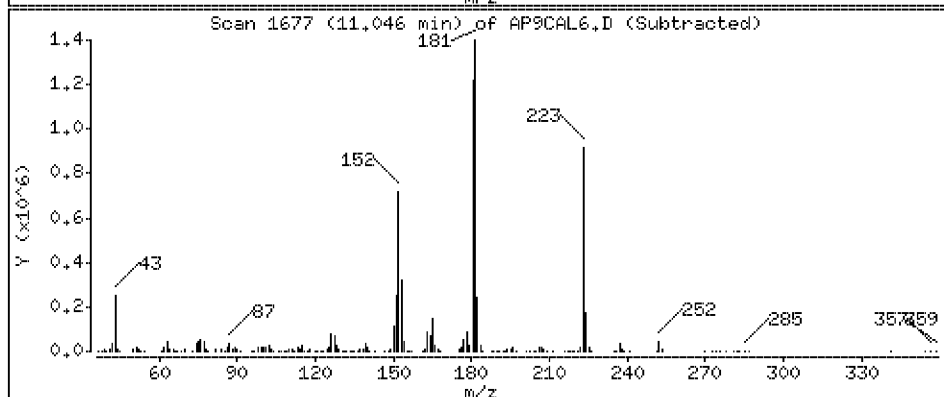
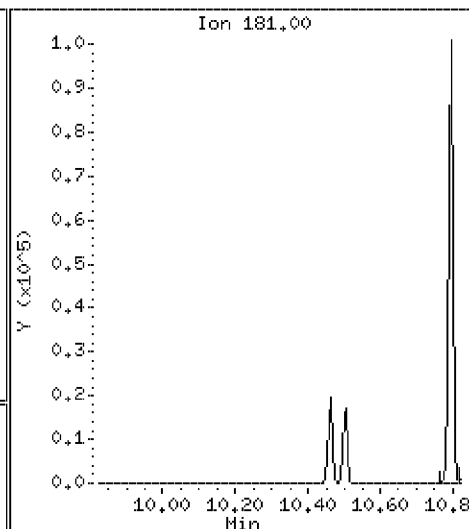
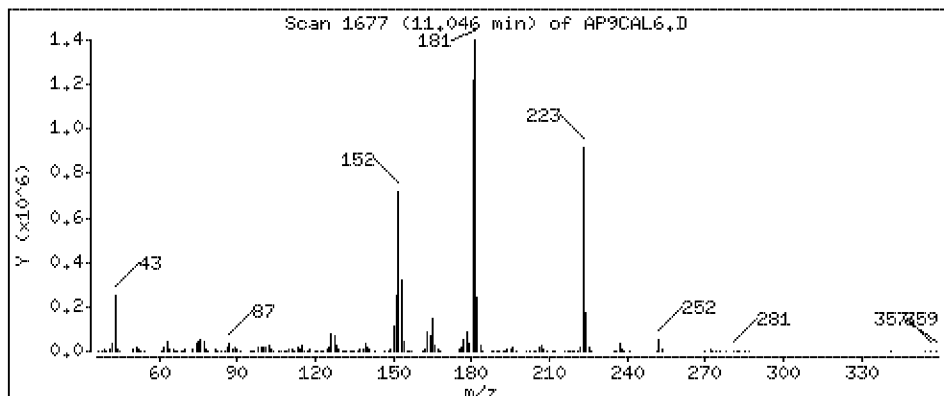
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

119 2-Acetylaminofluorene

Concentration: 84.6 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

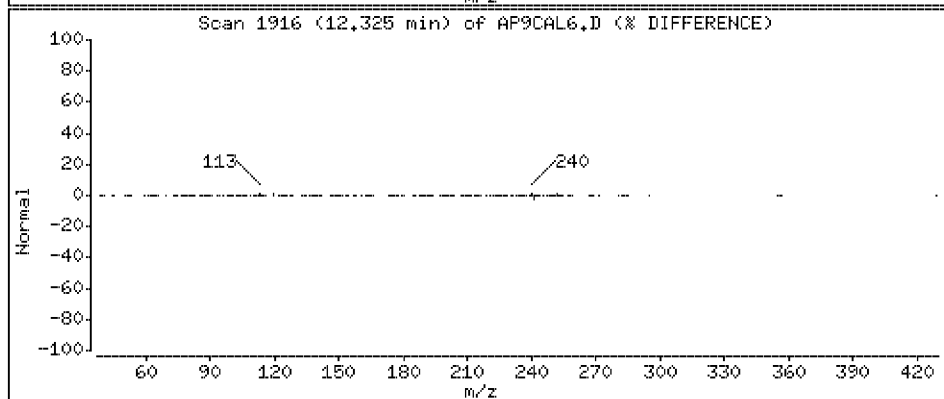
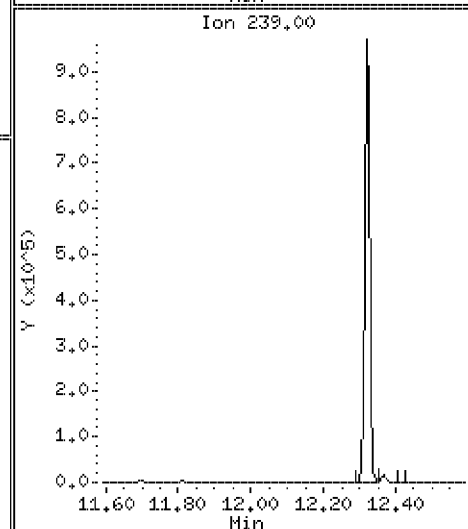
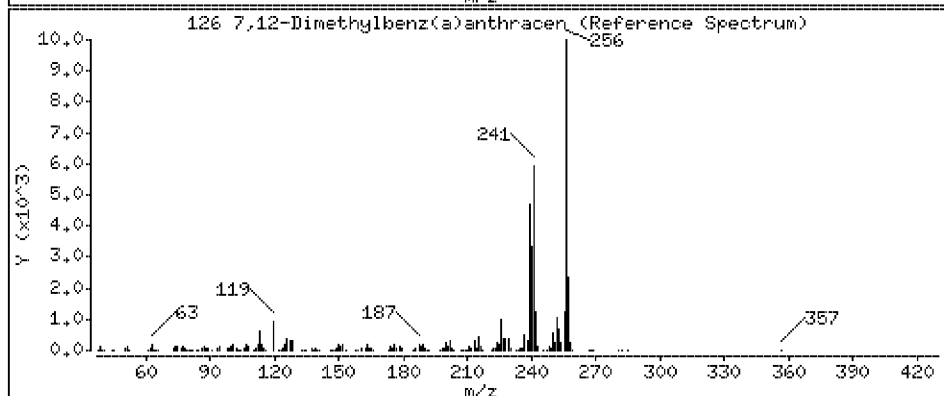
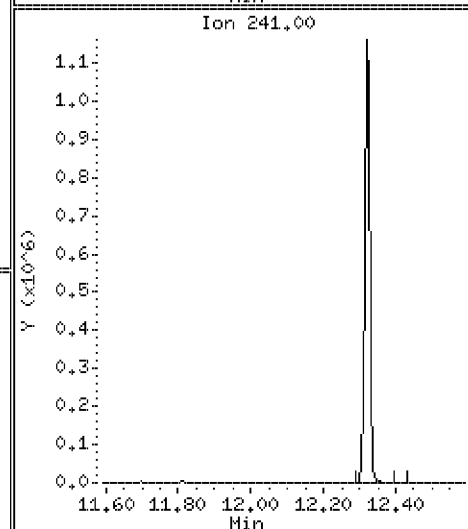
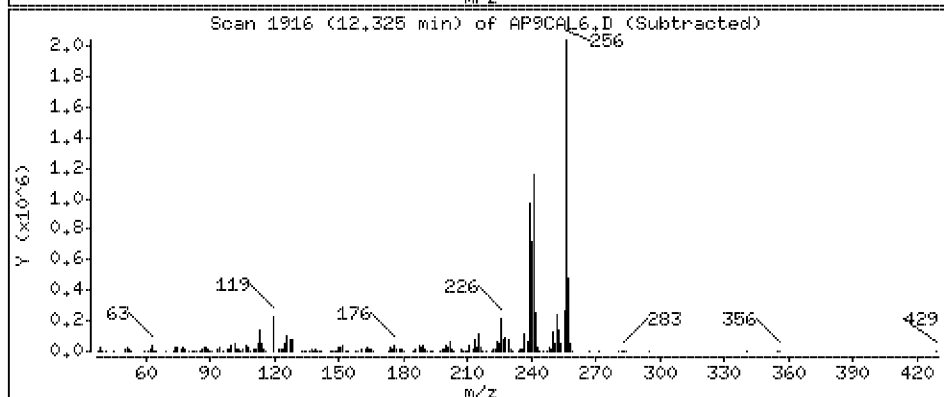
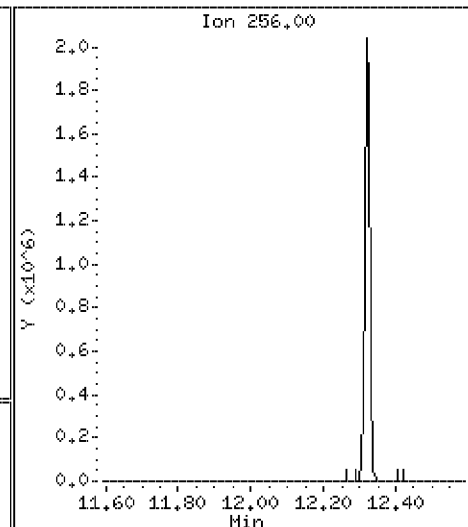
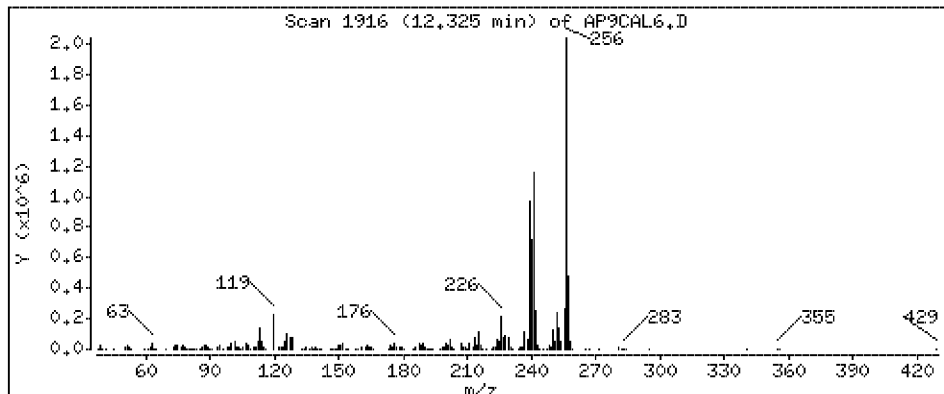
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

126 7,12-Dimethylbenz(a)anthracen

Concentration: 83.6 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

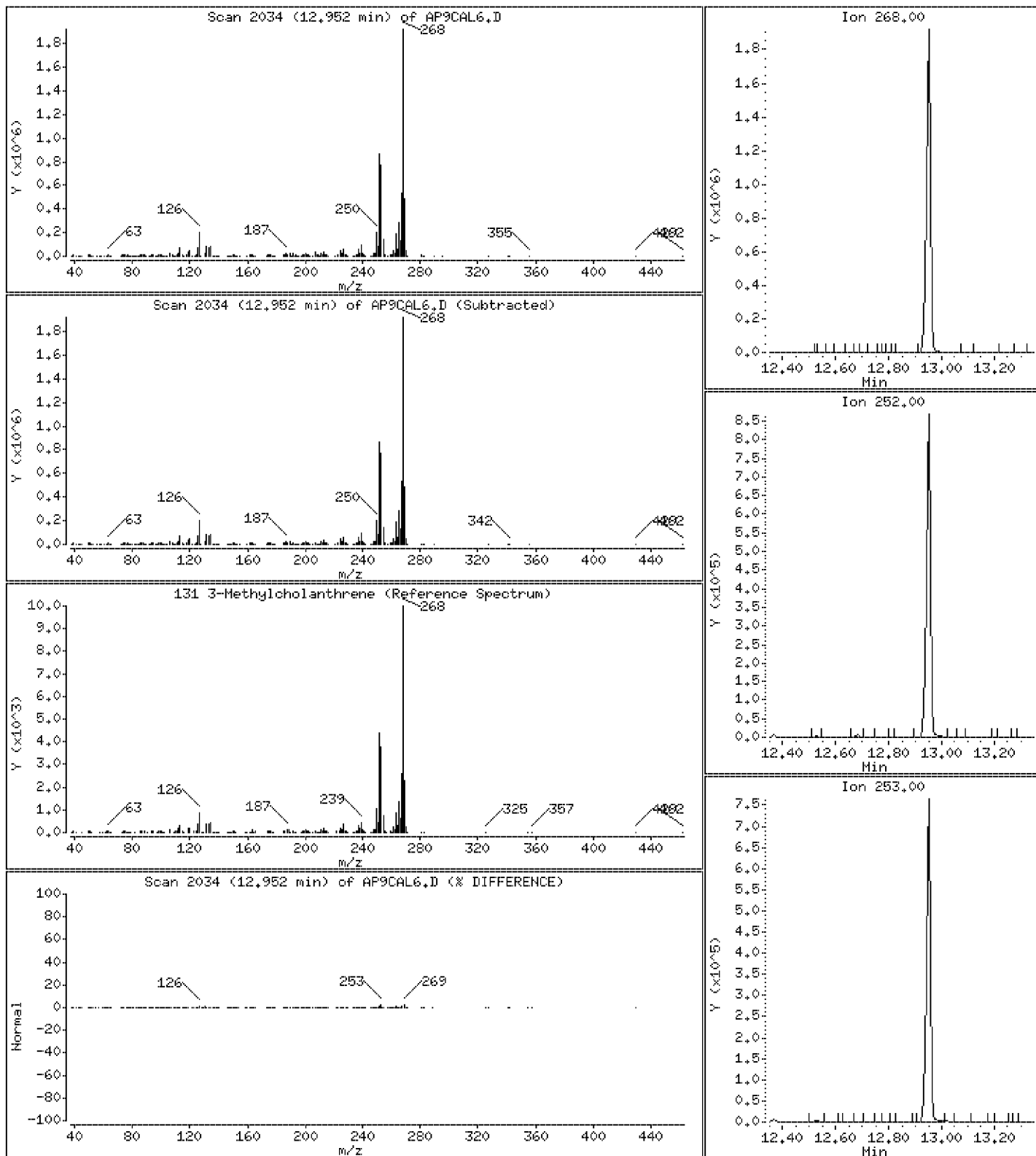
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

131 3-Methylcholanthrene

Concentration: 79.6 ug/l



Date : 23-APR-2012 17:30

Client ID: AP9CAL6

Instrument: smsd03.i

Sample Info: 45956

Purge Volume: 1000.0

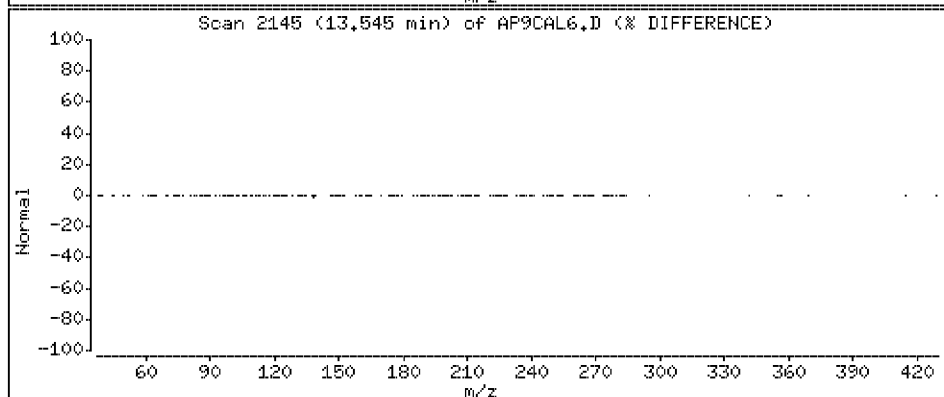
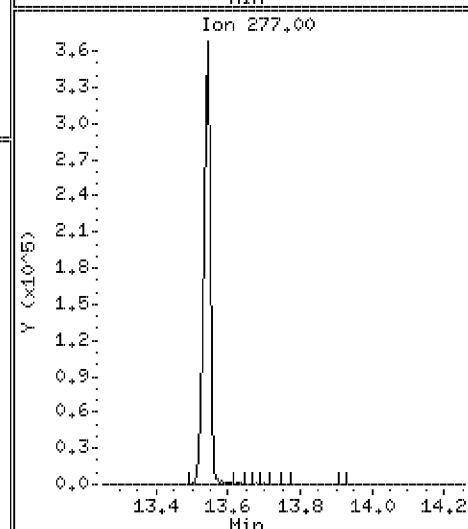
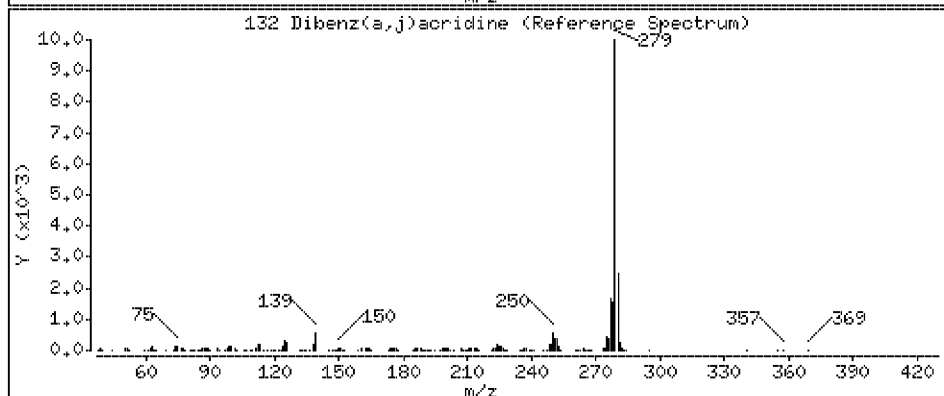
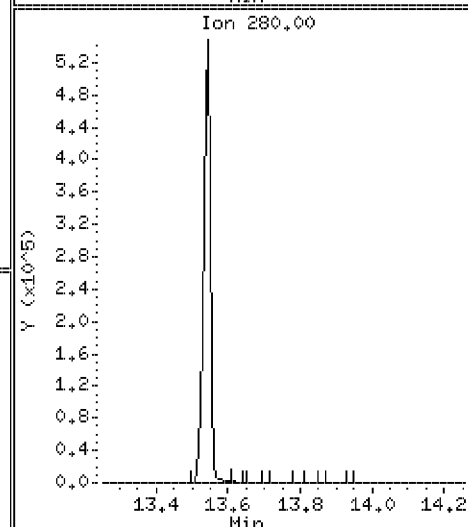
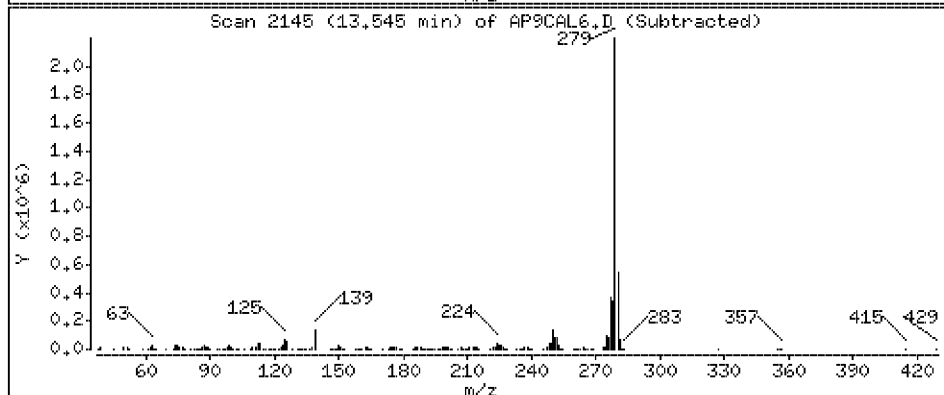
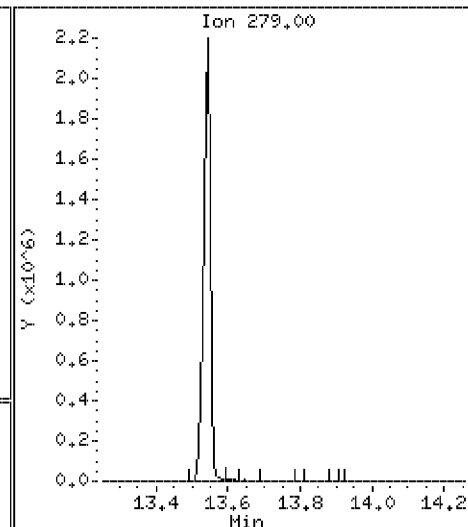
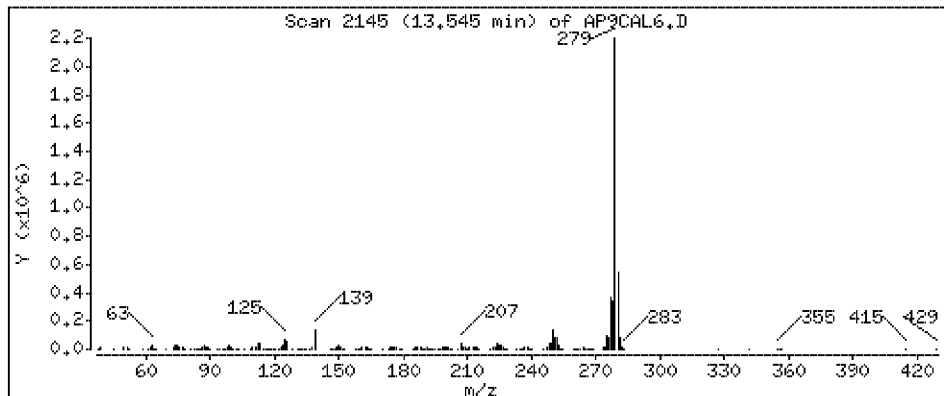
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

132 Dibenz(a,j)acridine

Concentration: 77.5 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3042312.b\AP9CAL5.D
 Lab Smp Id: 45957 Client Smp ID: AP9CAL5
 Inj Date : 23-APR-2012 17:53 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 45957
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270bcs.m
 Meth Date : 25-Apr-2012 09:57 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 17:30 Cal File: AP9CAL6.D
 Als bottle: 20 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ap9cal.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
3 2- Picoline CAS #: 109-06-8									
2.929	3.382	(0.659)	93	661230	60.0000	60.5	70.00- 130.00	100.00	
2.929	3.382	(0.659)	66	326818			46.98- 106.98	49.43	
2.929	3.382	(0.659)	92	170698			941.44-1001.44	25.82	
4 N-Nitrosomethylethylamine CAS #: 10595-95-6									
3.006	3.005	(0.676)	88	286824	60.0000	61.5	80.00- 120.00	100.00	
3.006	3.005	(0.676)	43	136329			16.66- 76.66	47.53	
3.005	3.005	(0.676)	42	280689			75.28- 135.28	97.86	
5 Methyl Methanesulfonate CAS #: 66-27-3									
3.240	3.383	(0.729)	80	467106	60.0000	60.6	70.00- 130.00	100.00	
3.241	3.383	(0.729)	79	274826			41.30- 101.30	58.84	
3.240	3.383	(0.729)	65	128010			390.98- 450.98	27.40	
7 N-Nitrosodiethylamine CAS #: 55-18-5									
3.553	3.383	(0.799)	102	290150	60.0000	62.8	70.00- 130.00	100.00	
3.552	3.383	(0.799)	42	197323			4947.35-5007.35	68.01	
3.552	3.383	(0.799)	57	121263			172953.97-173013.97	41.79	
8 Ethyl Methanesulfonate CAS #: 62-50-0									
3.790	4.446	(0.852)	79	478090	60.0000	59.7	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
8 Ethyl Methanesulfonate (continued)									
3.790	4.446	(0.852)	109	253360			103.08- 163.08	52.99	
3.790	4.446	(0.852)	97	91687			71.09- 131.09	19.18	

12 Pentachloroethane CAS #: 76-01-7									
4.208	4.207	(0.946)	167	281771	60.0000	61.7	80.00- 120.00	100.00	
4.207	4.207	(0.946)	117	199949			42.54- 102.54	70.96	
4.207	4.207	(0.946)	130	116632			11.81- 71.81	41.39	

* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.447	4.448	(1.000)	152	298732	40.0000		80.00- 120.00	100.00	
4.446	4.448	(1.000)	115	186837			32.20- 92.20	62.54	
4.447	4.448	(1.000)	150	446403			139.77- 199.77	149.43	

24 N-Nitrosopyrrolidine CAS #: 930-55-2									
4.789	4.944	(1.077)	100	300018	60.0000	61.6	70.00- 130.00	100.00	
4.789	4.944	(1.077)	41	199637			349.38- 409.38	66.54	
4.790	4.944	(1.077)	42	187111			7836.39-7896.39	62.37	

25 Acetophenone CAS #: 98-86-2									
4.802	4.807	(0.856)	105	868211	60.0000	61.5	70.00- 130.00	100.00	
4.802	4.807	(0.856)	77	877384			4410.01-4470.01	101.06	
4.801	4.807	(0.856)	51	220429			1262.06-1322.06	25.39	

27 N-Nitrosomorpholine CAS #: 59-89-2									
4.820	4.446	(1.084)	56	307480	60.0000	61.6	70.00- 130.00	100.00	
4.820	4.446	(1.084)	116	110991			116.25- 176.25	36.10	
4.820	4.446	(1.084)	86	211709			171.65- 231.65	68.85	

29 o-Toluidine CAS #: 95-53-4									
4.838	4.814	(1.088)	106	986717	60.0000	62.1	70.00- 130.00	100.00	
4.837	4.814	(1.088)	77	235065			36058.41-36118.41	23.82	
4.838	4.814	(1.088)	107	743315			76505.71-76565.71	75.33	

33 N-Nitrosopiperidine CAS #: 100-75-4									
5.097	4.798	(0.909)	114	264422	60.0000	61.6	70.00- 130.00	100.00	
5.096	4.798	(0.909)	42	309524			3934.42-3994.42	117.06	
5.096	4.798	(0.909)	55	162184			491.51- 551.51	61.34	

37 o,o,o-Triethylphosphorothioate CAS #: 126-68-1									
5.339	5.338	(1.200)	198	454156	60.0000	63.2	80.00- 120.00	100.00	
5.337	5.338	(1.200)	97	298152			34.93- 94.93	65.65	
5.337	5.338	(1.200)	65	242956			24.79- 84.79	53.50	

39 a,a-Dimethylphenethylamine CAS #: 122-09-8									
5.442	5.370	(0.970)	58	936712	60.0000	62.2	70.00- 130.00	100.00(M)	
5.443	5.370	(0.971)	91	295666			64.34- 124.34	31.56	
5.443	5.370	(0.971)	65	160214			12409.05-12469.05	17.10	

* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.608	5.610	(1.000)	136	988043	40.0000		80.00- 120.00	100.00	
5.607	5.610	(1.000)	68	49973			0.00- 35.51	5.06	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
====	=====	=====	=====	=====	=====	=====	=====	=====
46 2,6-Dichlorophenol			CAS #: 87-65-0					
5.694	5.691	(1.015)	162	519272	60.0000	62.8	70.00- 130.00	100.00
5.693	5.691	(1.015)	63	394092			8424.37-8484.37	75.89
5.693	5.691	(1.015)	98	143122			164.07- 224.07	27.56

47 Hexachloropropene			CAS #: 1888-71-7					
5.714	5.712	(1.019)	213	689674	60.0000	62.7	80.00- 120.00	100.00
5.714	5.712	(1.019)	215	438595			34.61- 94.61	63.59
5.712	5.712	(1.019)	117	135537			0.00- 50.39	19.65

49 N-Nitrosodi-n-butylamine			CAS #: 924-16-3					
5.994	6.287	(1.069)	84	496752	60.0000	62.4	70.00- 130.00	100.00
5.993	6.287	(1.069)	57	294067			1288.18-1348.18	59.20
5.993	6.287	(1.069)	41	251977			66.46- 126.46	50.72

52 Isosafrole			CAS #: 120-58-1					
6.201	6.619	(1.106)	162	495230	60.0000	61.8	70.00- 130.00	100.00
6.201	6.619	(1.106)	104	357435			0.00- 46.22	72.18
6.201	6.619	(1.106)	131	243524			37.69- 97.69	49.17

56 1,2,4,5-Tetrachlorobenzene			CAS #: 95-94-3					
6.453	6.452	(0.884)	216	797183	60.0000	62.7	80.00- 120.00	100.00
6.453	6.452	(0.884)	214	618791			48.19- 108.19	77.62
6.452	6.452	(0.883)	108	138086			0.00- 47.81	17.32

60 Safrole			CAS #: 94-59-7					
6.704	6.619	(1.195)	162	481751	60.0000	64.1	70.00- 130.00	100.00
6.703	6.619	(1.195)	104	296680			0.00- 46.22	61.58
6.703	6.619	(1.195)	77	188035			0.00- 57.00	39.03

64 1,4-Naphthoquinone			CAS #: 130-15-4					
6.933	6.642	(0.949)	158	460979	60.0000	64.2	70.00- 130.00	100.00
6.932	6.642	(0.949)	102	399624			523.56- 583.56	86.69
6.933	6.642	(0.949)	130	207935			0.00- 46.52	45.11

66 1,3-Dinitrobenzene			CAS #: 99-65-0					
7.070	7.368	(0.968)	168	215652	60.0000	63.5	70.00- 130.00	100.00
7.069	7.368	(0.968)	75	275820			98.40- 158.40	127.90
7.068	7.368	(0.968)	50	159266			177.84- 237.84	73.85

* 70 Acenaphthene-d10			CAS #: 15067-26-2					
7.303	7.305	(1.000)	164	671117	40.0000		80.00- 120.00	100.00
7.303	7.305	(1.000)	162	649076			64.73- 124.73	96.72
7.303	7.305	(1.000)	160	296512			12.46- 72.46	44.18

73 Pentachlorobenzene			CAS #: 608-93-5					
7.468	7.467	(1.023)	250	782775	60.0000	63.1	80.00- 120.00	100.00
7.468	7.467	(1.023)	252	505686			34.92- 94.92	64.60
7.467	7.467	(1.022)	108	213436			0.00- 56.94	27.27

77 1-Naphthylamine			CAS #: 134-32-7					
7.582	7.837	(1.038)	143	729811	60.0000	62.2	70.00- 130.00	100.00
7.582	7.837	(1.038)	115	416965			7143.21-7203.21	57.13

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====
77 1-Naphthylamine (continued)								
7.582	7.837	(1.038)	89	82438			2068.79-2128.79	11.30

78 2,3,4,6-Tetrachlorophenol CAS #: 58-90-2								
7.636	7.634	(1.046)	232	428810	60.0000	63.0	70.00- 130.00	100.00
7.634	7.634	(1.045)	168	115252			42.05- 102.05	26.88
7.634	7.634	(1.045)	131	176527			9.10- 69.10	41.17

79 2-Naphthylamine CAS #: 91-59-8								
7.662	7.837	(1.049)	143	955969	60.0000	62.1	70.00- 130.00	100.00
7.661	7.837	(1.049)	115	544390			7143.21-7203.21	56.95
7.661	7.837	(1.049)	116	213086			667.96- 727.96	22.29

83 5-Nitro-ortho-toluidine CAS #: 99-55-8								
7.858	7.896	(1.076)	152	379299	60.0000	63.5	70.00- 130.00	100.00
7.858	7.896	(1.076)	106	275127			505.60- 565.60	72.54
7.857	7.896	(1.076)	77	472016			735.48- 795.48	124.44

90 1,3,5-Trinitrobenzene CAS #: 99-35-4								
8.219	8.152	(1.125)	75	967531	60.0000	58.3	70.00- 130.00	100.00
8.219	8.152	(1.125)	74	601997			50.14- 110.14	62.22
8.220	8.152	(1.126)	213	343167			40.88- 100.88	35.47

89 Diallate CAS #: 2303-16-4								
8.231	8.081	(1.127)	86	520491	60.0000	62.4	70.00- 130.00	100.00(M)
8.231	8.081	(1.127)	43	505021			0.00- 38.70	97.03
8.236	8.081	(1.128)	234	344226			0.00- 39.00	66.13

92 Phenacetin CAS #: 62-44-2								
8.268	8.384	(0.944)	109	567067	60.0000	60.0	70.00- 130.00	100.00
8.268	8.384	(0.944)	108	665628			77.38- 137.38	117.38
8.269	8.384	(0.944)	179	385244			133.19- 193.19	67.94

91 p-Phenylenediamine CAS #: 106-50-3								
8.268	8.082	(0.944)	108	665628	60.0000	64.4	70.00- 130.00	100.00
8.268	8.082	(0.944)	80	186775			1858.68-1918.68	28.06
8.268	8.082	(0.944)	53	84257			5306.16-5366.16	12.66

97 Pentachloronitrobenzene CAS #: 82-68-8								
8.590	8.589	(0.980)	237	310871	60.0000	63.9	80.00- 120.00	100.00
8.590	8.589	(0.981)	295	121653			7.36- 67.36	39.13
8.589	8.589	(0.980)	142	221827			42.99- 102.99	71.36

98 4-Aminobiphenyl CAS #: 92-67-1								
8.577	8.584	(0.979)	169	1450589	60.0000	61.9	70.00- 130.00	100.00
8.577	8.584	(0.979)	168	322372			0.00- 49.63	22.22
8.577	8.584	(0.979)	115	181243			0.00- 40.98	12.49

99 Pronamide CAS #: 23950-58-5								
8.634	8.781	(0.986)	173	735075	60.0000	63.1	70.00- 130.00	100.00
8.634	8.781	(0.986)	175	475527			2051.90-2111.90	64.69
8.634	8.781	(0.985)	145	283232			63.94- 123.94	38.53

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 100 Phenanthrene-d10					CAS #: 1517-22-2				
8.761	8.761	(1.000)	188	1355530	40.0000		80.00- 120.00	100.00	
8.760	8.761	(1.000)	94	92642			0.00- 36.35	6.83	
8.759	8.761	(1.000)	80	114493			0.00- 37.82	8.45	

102 Dinoseb					CAS #: 88-85-7				
8.755	8.753	(0.999)	211	470584	60.0000	59.8	80.00- 120.00	100.00	
8.755	8.753	(0.999)	163	177982			7.77- 67.77	37.82	
8.754	8.753	(0.999)	117	101432			0.00- 52.05	21.55	

106 4-Nitroquinoline-1-oxide					CAS #: 56-57-5				
9.544	9.334	(1.089)	174	17550	60.0000	58.1	70.00- 130.00	100.00	
9.544	9.334	(1.089)	128	39536			429.24- 489.24	225.28	
9.544	9.334	(1.089)	101	64046			988.96-1048.96	364.93	

107 Methapyrilene					CAS #: 91-80-5				
9.610	10.322	(1.097)	97	29428	60.0000	64.8	70.00- 130.00	100.00	
9.610	10.322	(1.097)	58	29142			11.52- 71.52	99.03	
9.613	10.322	(1.097)	191	4566			0.00- 52.18	15.52	

108 Isodrin					CAS #: 465-73-6				
9.802	10.279	(1.119)	193	251322	60.0000	60.8	70.00- 130.00	100.00	
9.801	10.279	(1.119)	66	229957			17952.44-18012.44	91.50	
9.802	10.279	(1.119)	195	213931			1135.23-1195.23	85.12	

113 Aramite					CAS #: 140-57-8				
10.368	10.370	(0.913)	185	236266	60.0000	62.1	80.00- 120.00	100.00(M)	
10.368	10.370	(0.913)	191	119912			21.78- 81.78	50.75	
10.298	10.370	(0.907)	319	86387			6.67- 66.67	36.56	

114 p-Dimethylamino azobenzene					CAS #: 60-11-7				
10.462	10.323	(0.921)	225	592870	60.0000	63.2	70.00- 130.00	100.00	
10.461	10.323	(0.921)	120	568700			99.50- 159.50	95.92	
10.460	10.323	(0.921)	77	610509			9.48- 69.48	102.98	

115 Chlorobenzilate					CAS #: 510-15-6				
10.505	10.503	(0.925)	251	919028	60.0000	63.4	80.00- 120.00	100.00	
10.505	10.503	(0.925)	253	604979			35.78- 95.78	65.83	
10.503	10.503	(0.925)	139	834578			60.72- 120.72	90.81	

116 Kepone					CAS #: 143-50-0				
10.843	10.840	(0.955)	272	159105	60.0000	64.1	80.00- 120.00	100.00(M)	
10.843	10.840	(0.955)	274	123320			51.74- 111.74	77.51	
10.843	10.840	(0.955)	237	145619			0.00- 59.52	91.52	

117 3,3-Dimethylbenzidine					CAS #: 119-93-7				
10.794	10.799	(0.951)	212	1797568	60.0000	63.1	70.00- 130.00	100.00	
10.793	10.799	(0.951)	106	122981			2299.94-2359.94	6.84	
10.794	10.799	(0.951)	180	140762			6.44- 66.44	7.83	

119 2-Acetylaminofluorene					CAS #: 53-96-3				
11.044	10.324	(0.973)	181	1055355	60.0000	64.2	70.00- 130.00	100.00	
11.044	10.324	(0.973)	223	683404			491.83- 551.83	64.76	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====
119 2-Acetylaminofluorene (continued)								
11.044	10.324	(0.973)	180	901087			639.65- 699.65	85.38

* 121 Chrysene-d12 CAS #: 1719-03-5								
11.354	11.359	(1.000)	240	1594383	40.0000		80.00- 120.00	100.00
11.353	11.359	(1.000)	120	83130			0.00- 36.38	5.21
11.354	11.359	(1.000)	236	426988			0.00- 57.06	26.78

126 7,12-Dimethylbenz(a)anthracen CAS #: 57-97-6								
12.322	12.088	(0.972)	256	1408186	60.0000	63.5	70.00- 130.00	100.00
12.322	12.088	(0.972)	241	807969			77.87- 137.87	57.38
12.322	12.088	(0.972)	239	654701			73.24- 133.24	46.49

* 130 Perylene-d12 CAS #: 1520-96-3								
12.679	12.682	(1.000)	264	1557275	40.0000		80.00- 120.00	100.00
12.679	12.682	(1.000)	260	380789			0.00- 54.80	24.45
12.679	12.682	(1.000)	265	357749			0.00- 53.39	22.97

131 3-Methylcholanthrene CAS #: 56-49-5								
12.948	12.847	(1.021)	268	1574139	60.0000	63.0	70.00- 130.00	100.00
12.948	12.847	(1.021)	252	686686			13.23- 73.23	43.62
12.948	12.847	(1.021)	253	601758			6.61- 66.61	38.23

132 Dibenz(a,j)acridine CAS #: 224-42-0								
13.540	13.755	(1.068)	279	2254872	60.0000	62.8	70.00- 130.00	100.00
13.540	13.755	(1.068)	280	540946			0.00- 41.79	23.99
13.540	13.755	(1.068)	277	351033			93.47- 153.47	15.57

QC Flag Legend

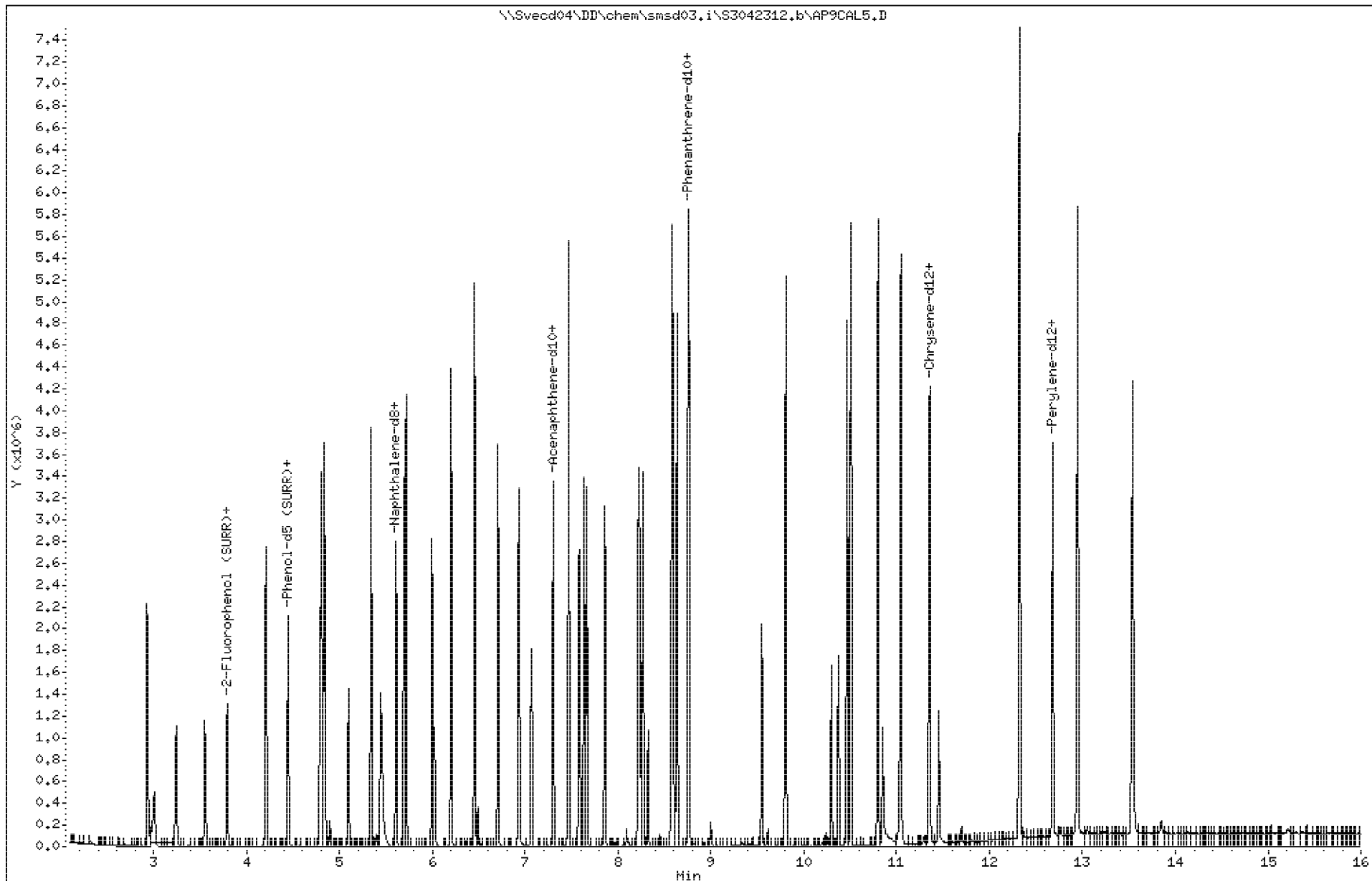
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Client ID: AP9CAL5
Sample Info: 45957
Purge Volume: 1000.0
Column phase: HPMS-5

Instrument: smsd03.i

Operator: PEL

Column diameter: 0.25



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

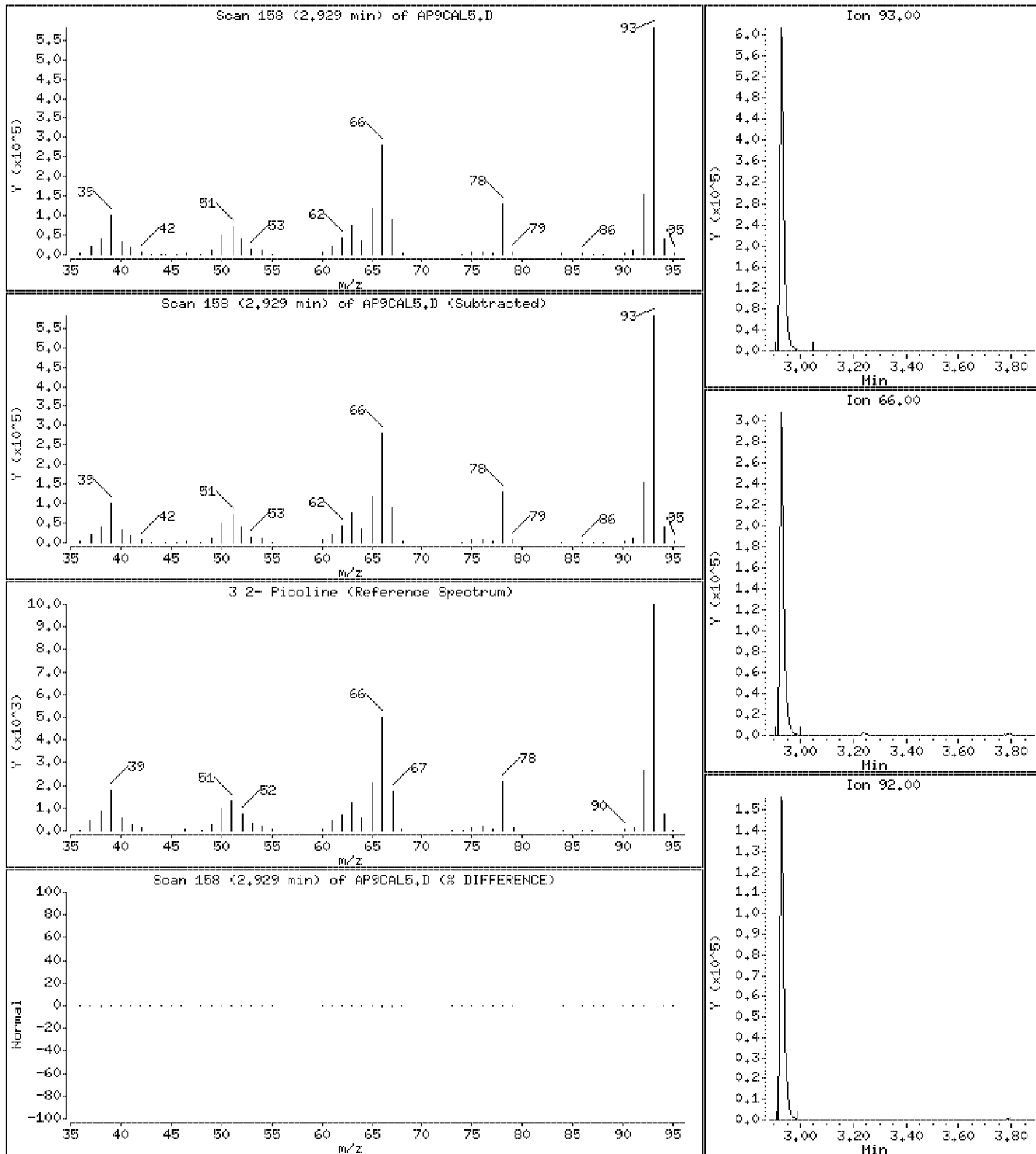
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

3 2- Picoline

Concentration: 60,5 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

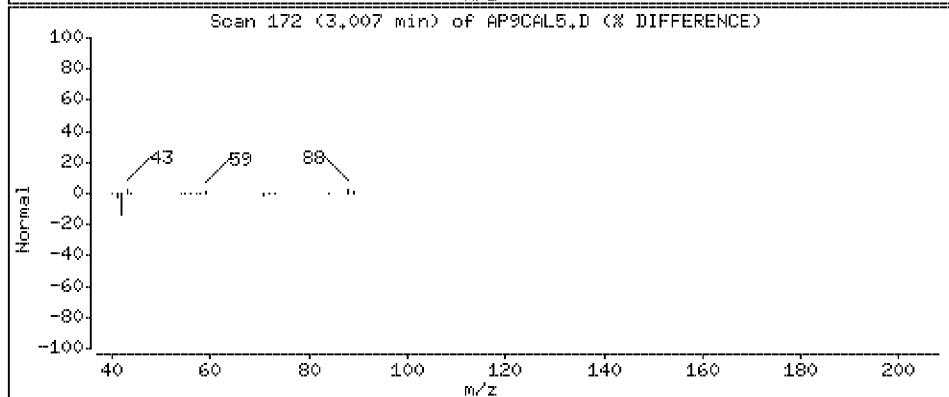
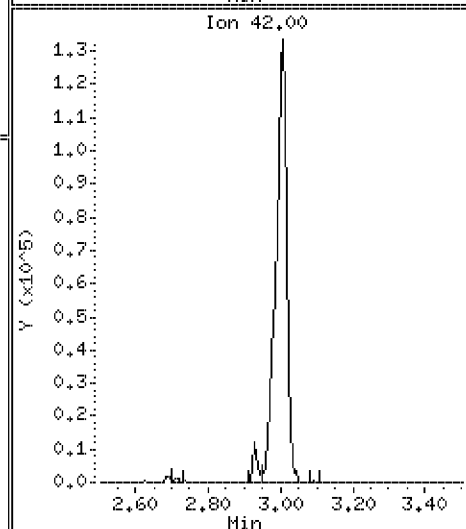
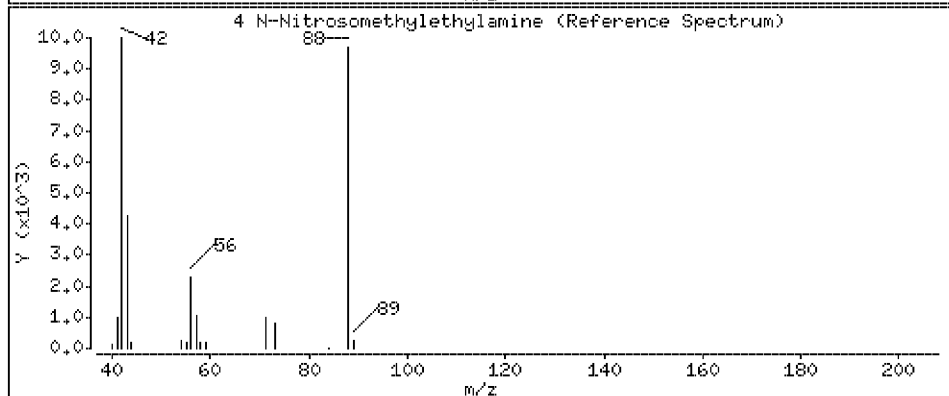
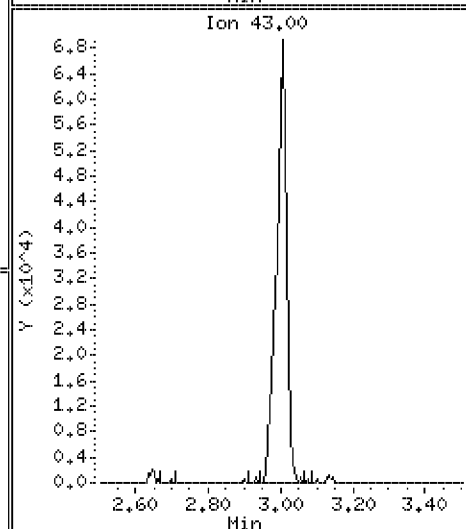
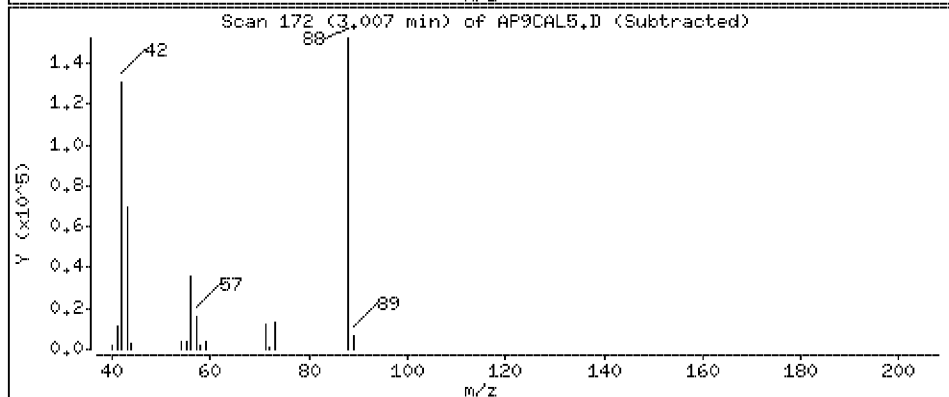
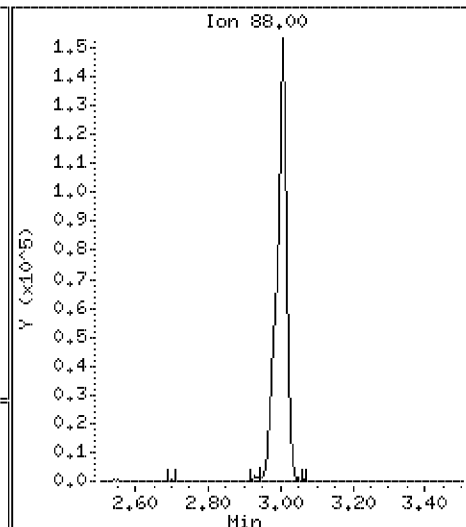
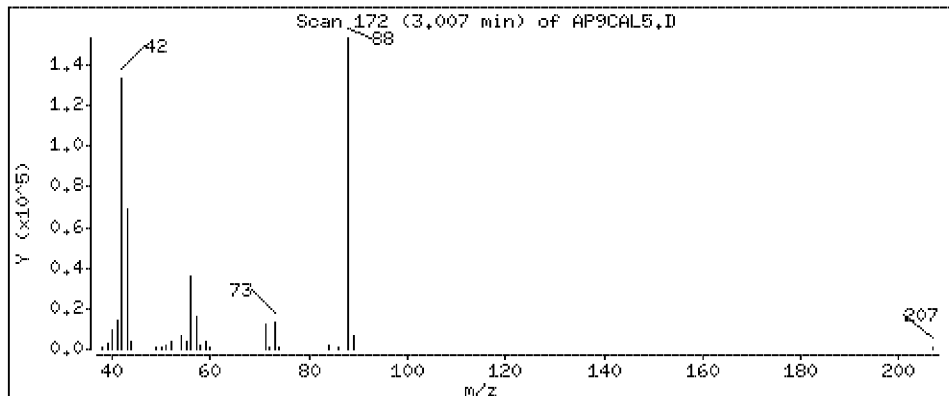
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

4 N-Nitrosomethylethylamine

Concentration: 61.5 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

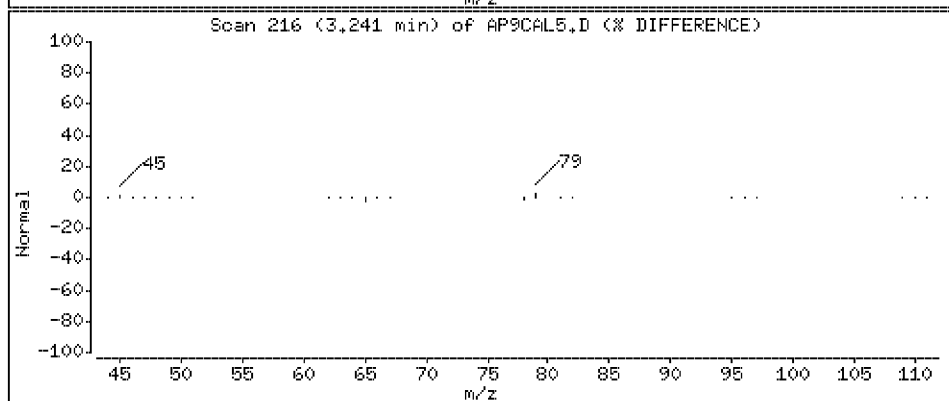
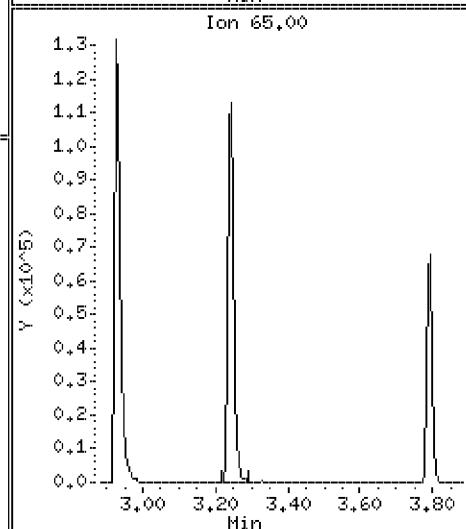
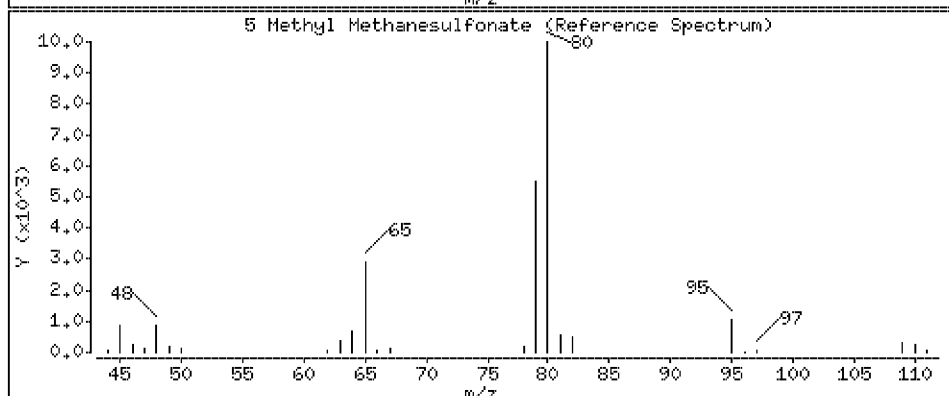
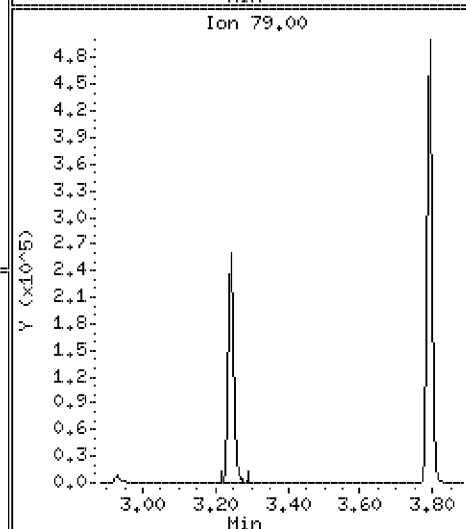
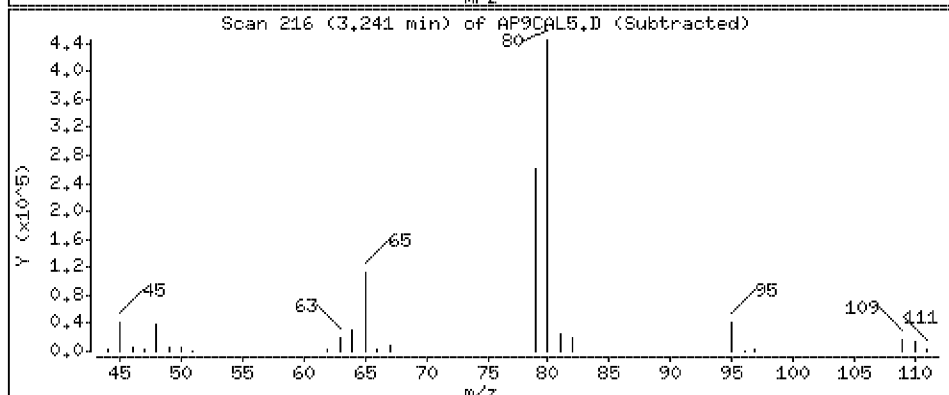
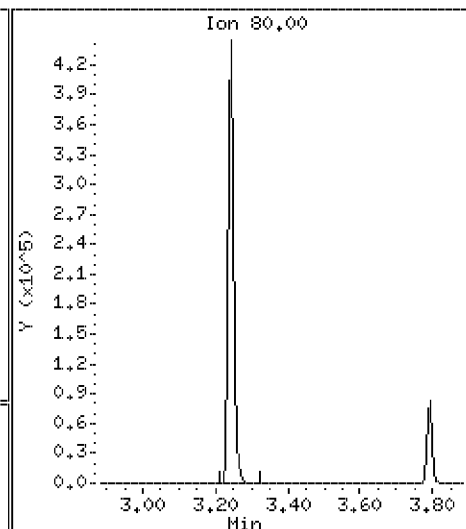
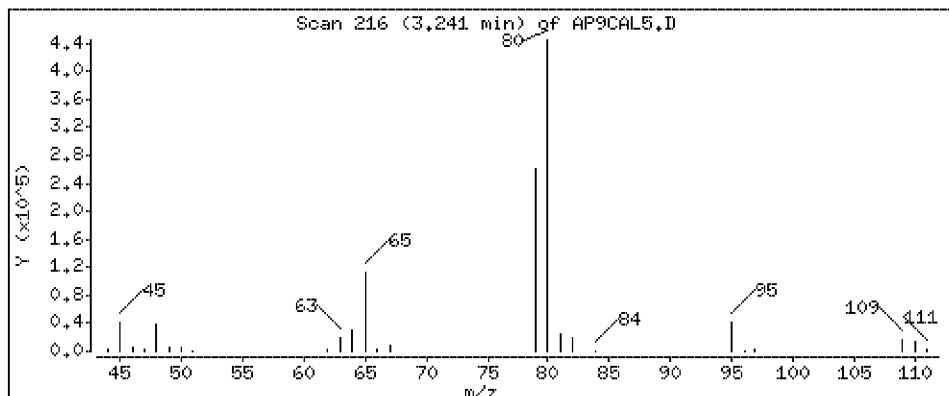
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

5 Methyl Methanesulfonate

Concentration: 60.6 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

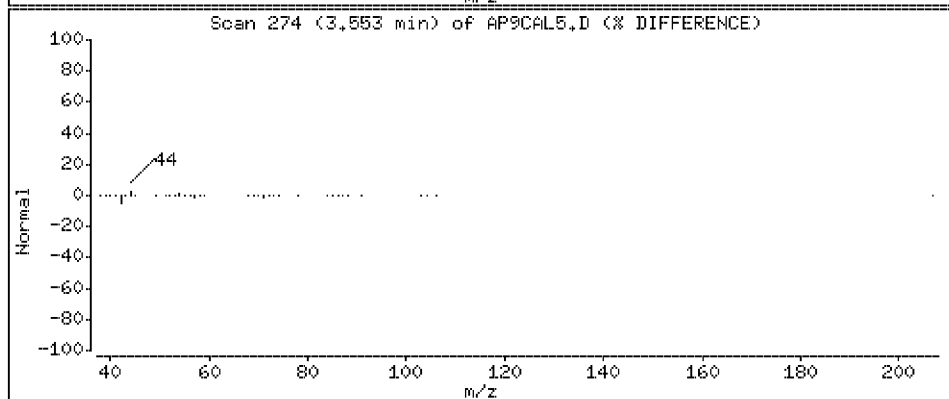
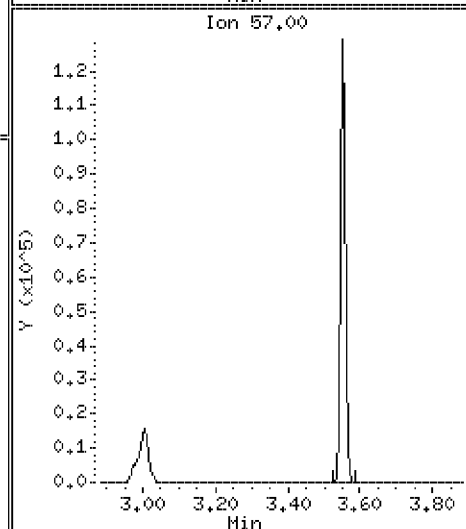
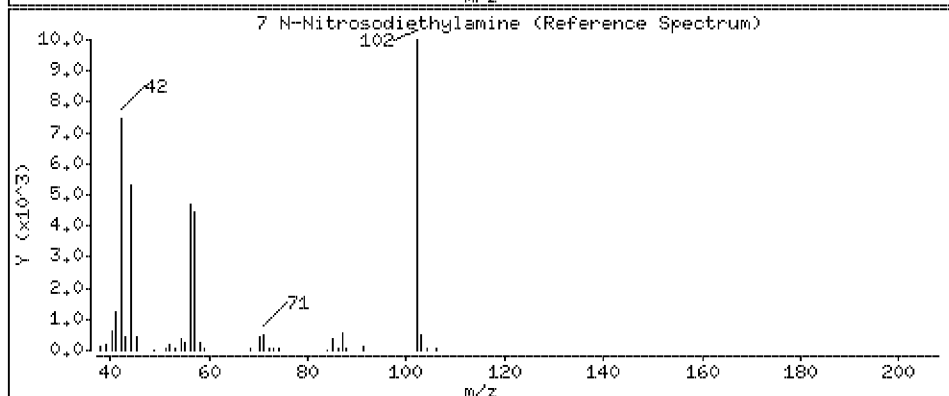
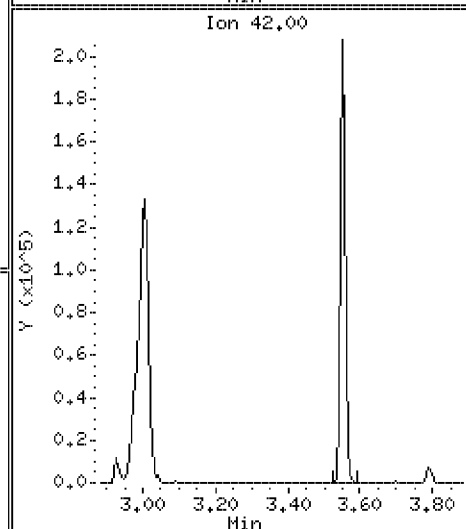
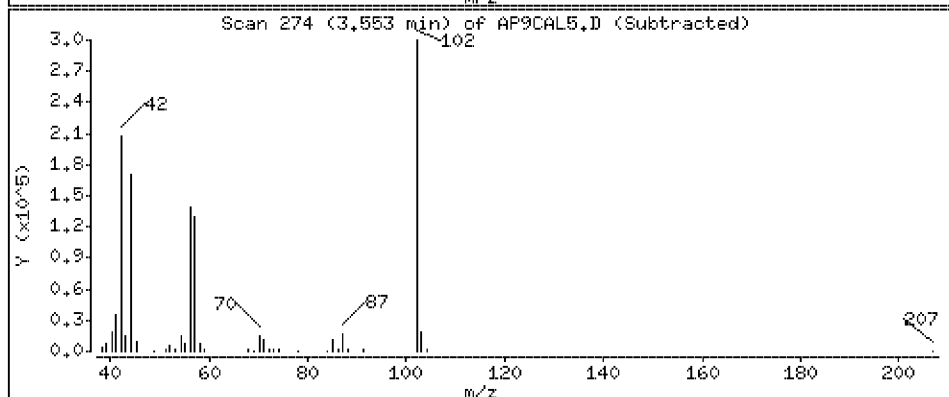
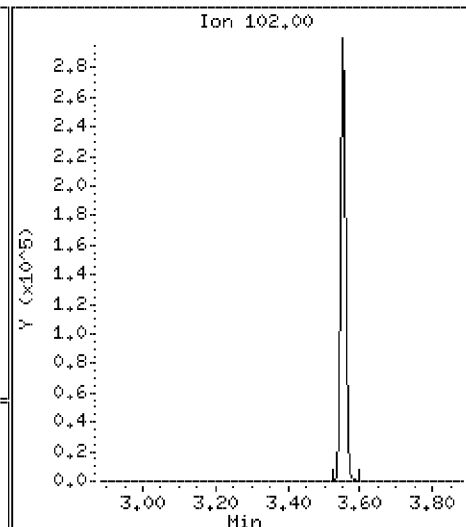
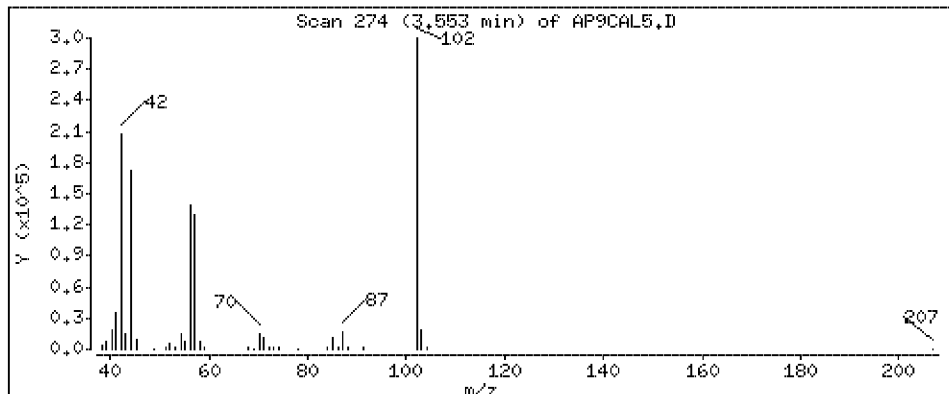
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

7 N-Nitrosodiethylamine

Concentration: 62.8 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

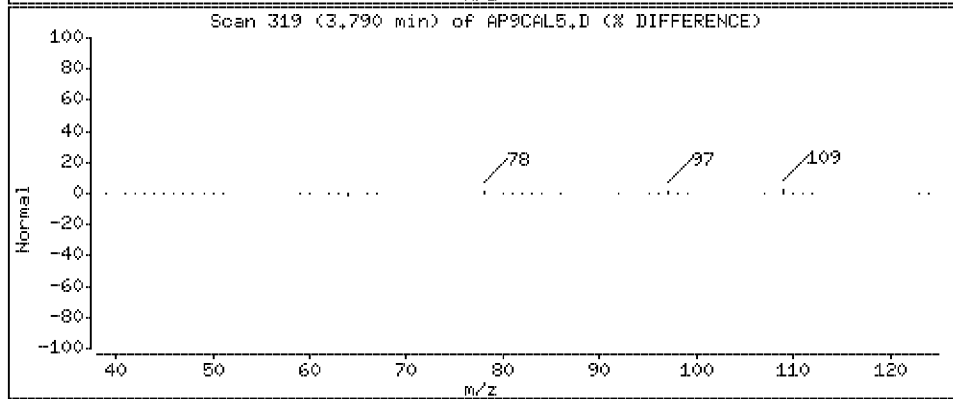
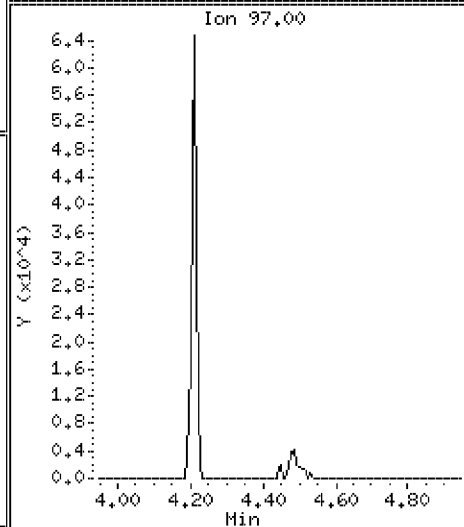
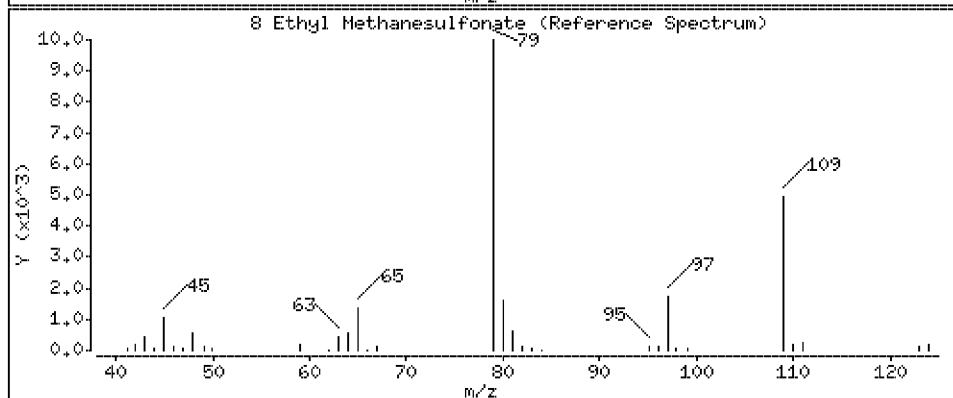
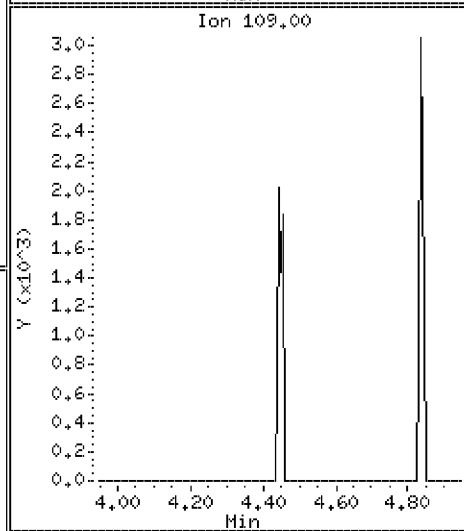
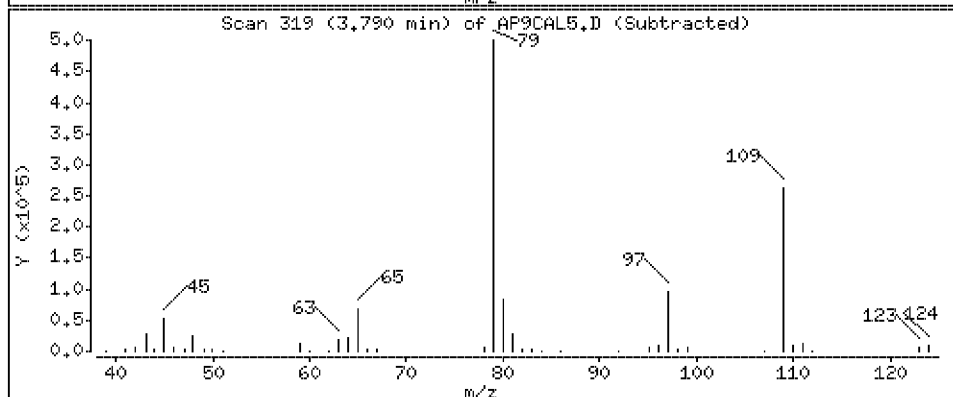
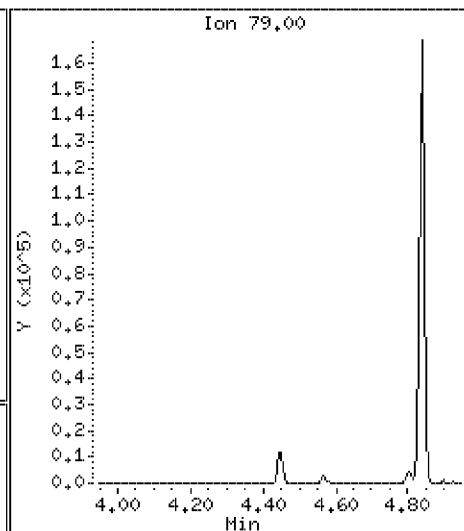
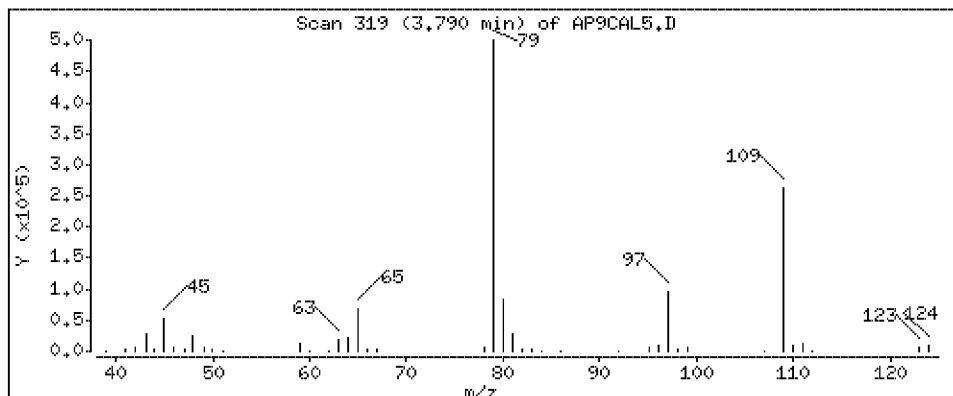
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

8 Ethyl Methanesulfonate

Concentration: 59.7 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

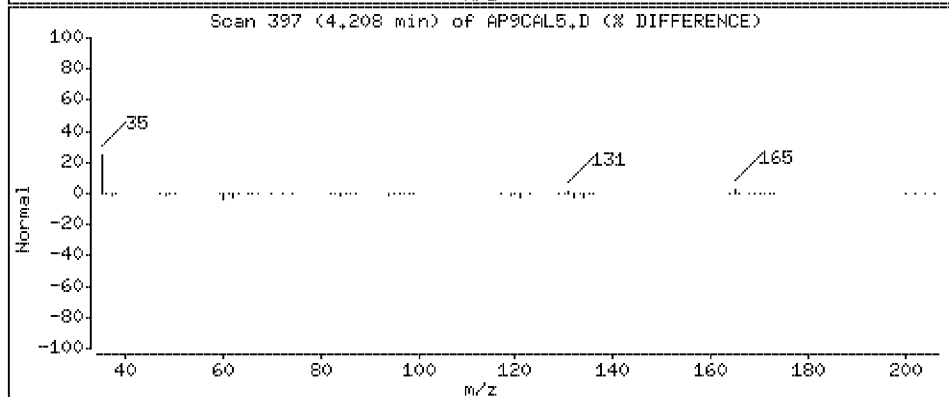
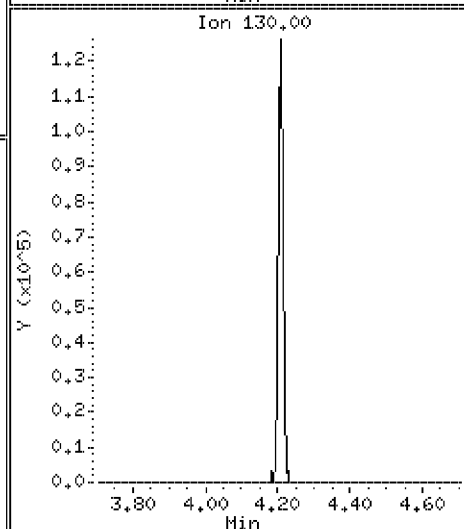
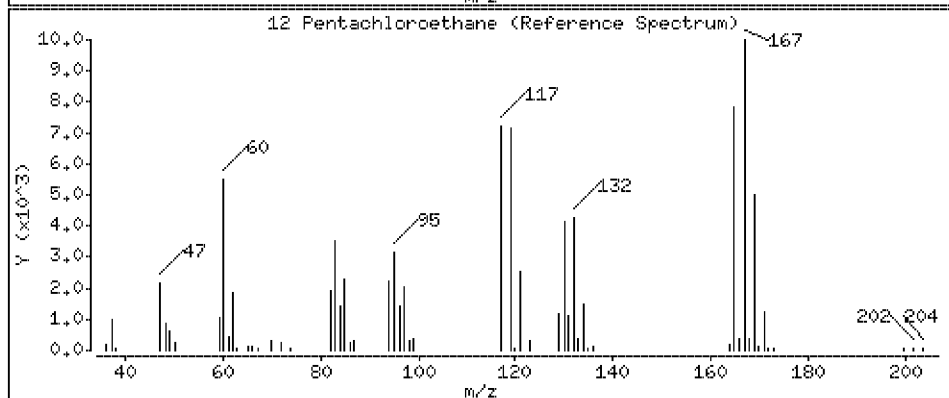
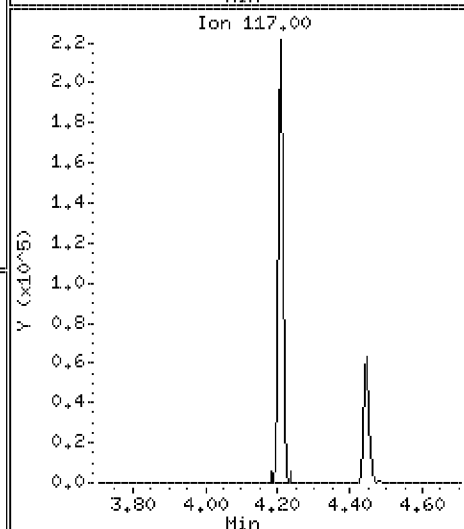
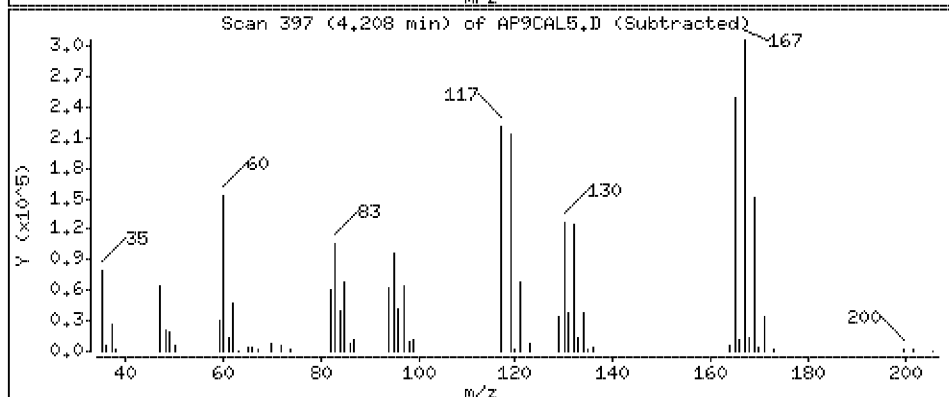
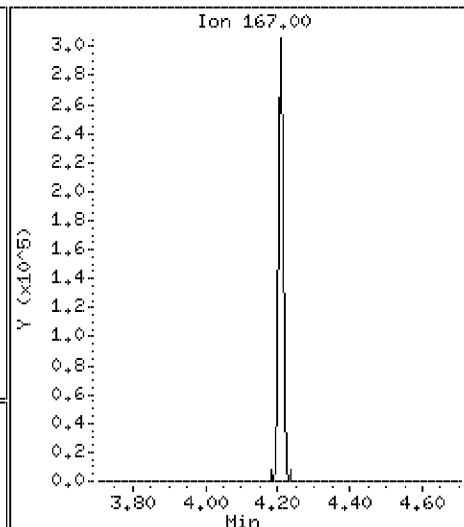
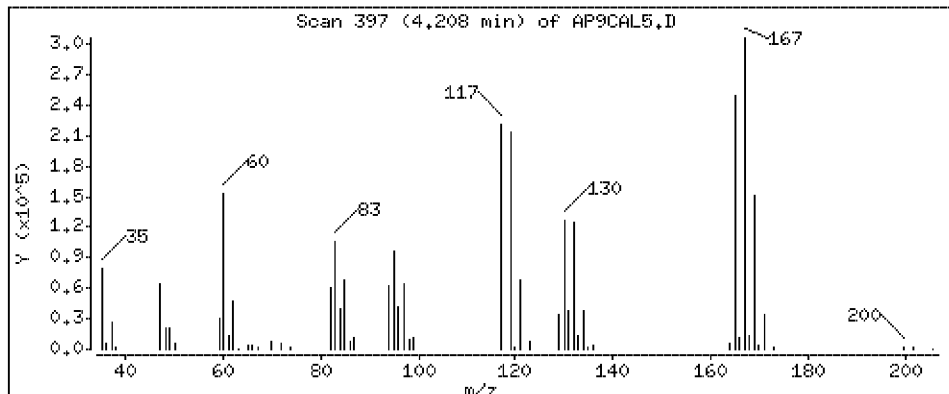
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

12 Pentachloroethane

Concentration: 61.7 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

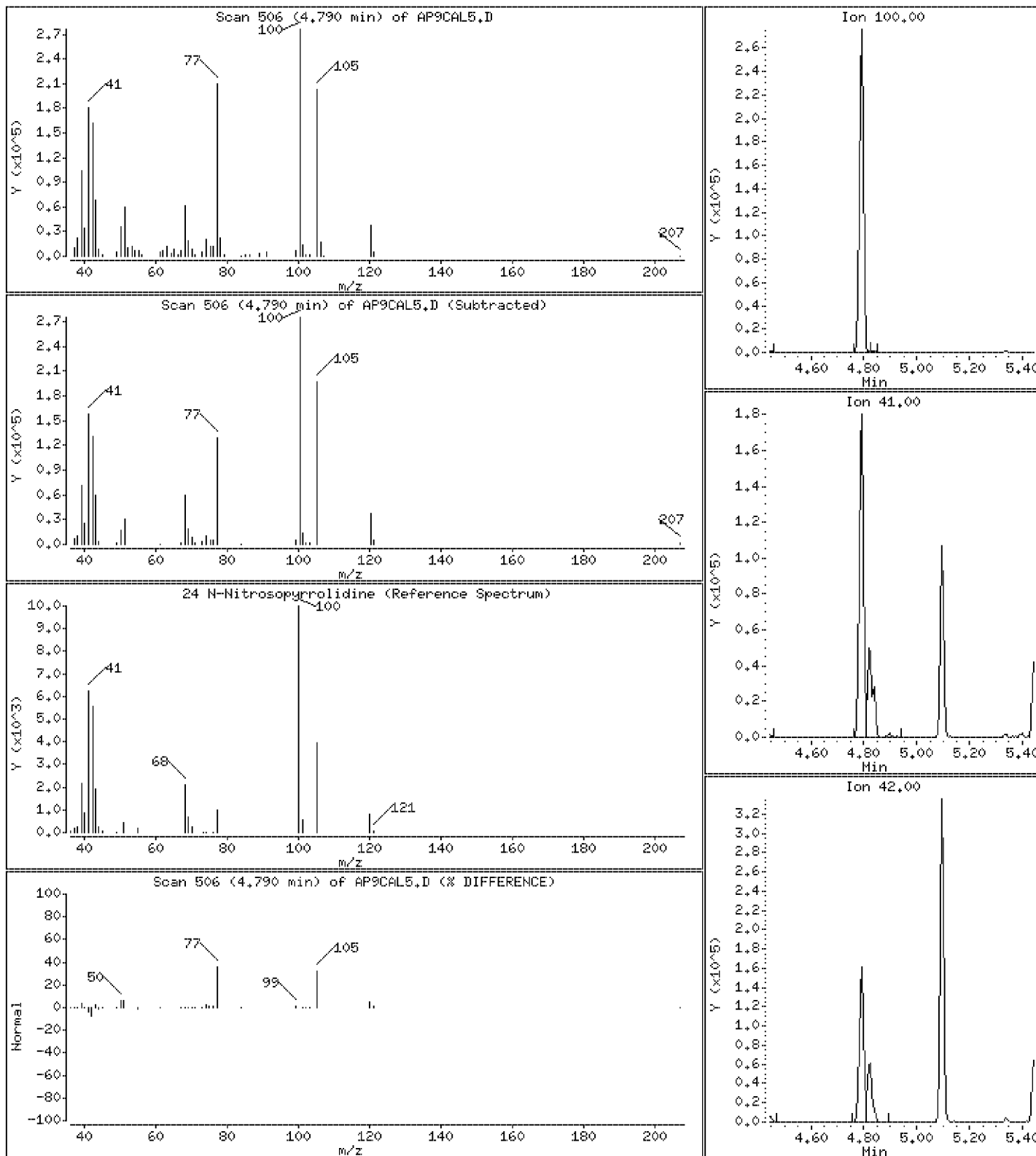
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

24 N-Nitrosopyrrolidine

Concentration: 61.6 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

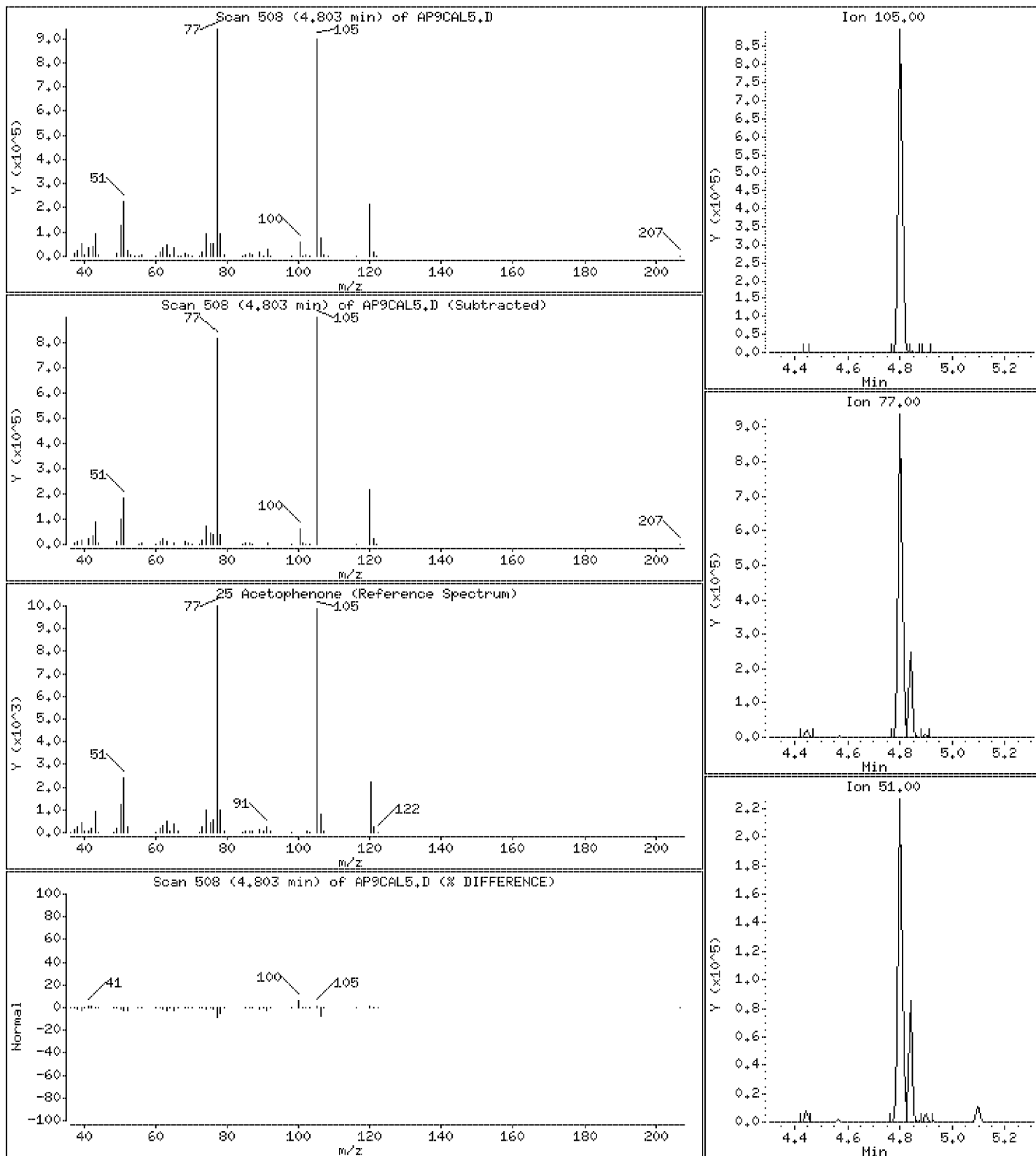
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

25 Acetophenone

Concentration: 61.5 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

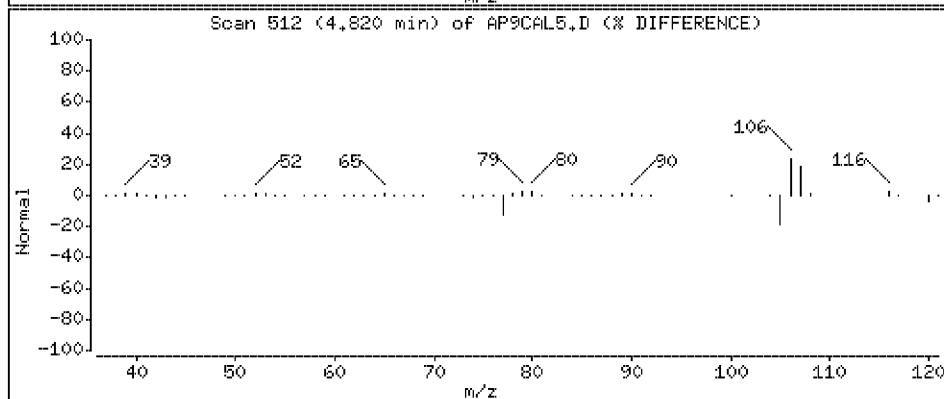
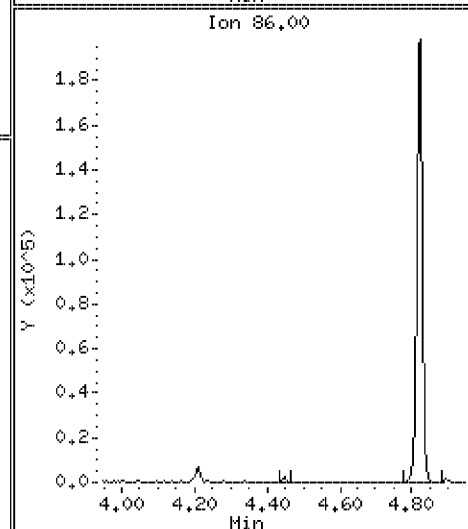
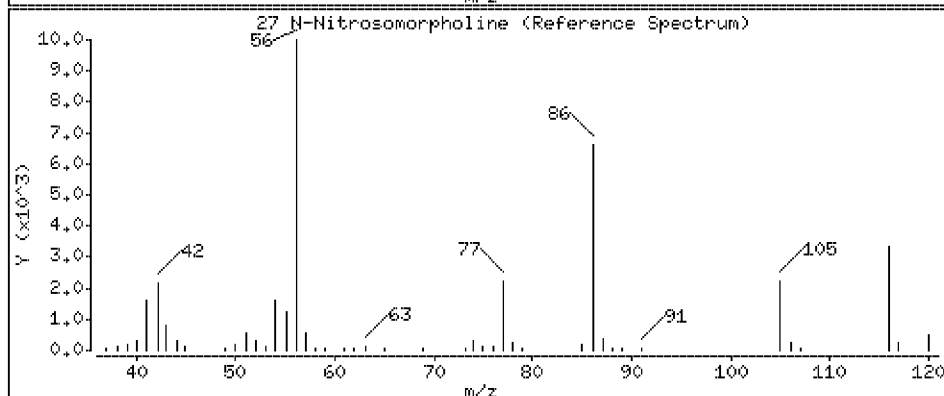
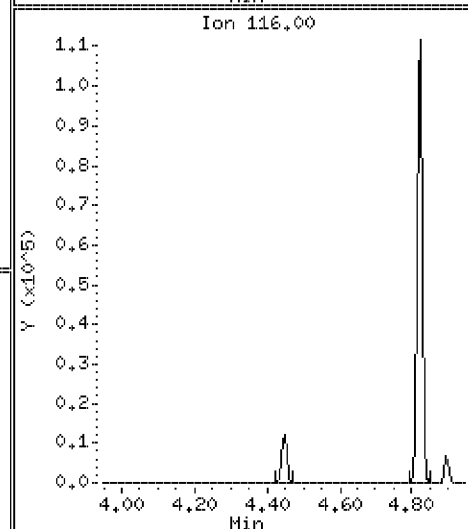
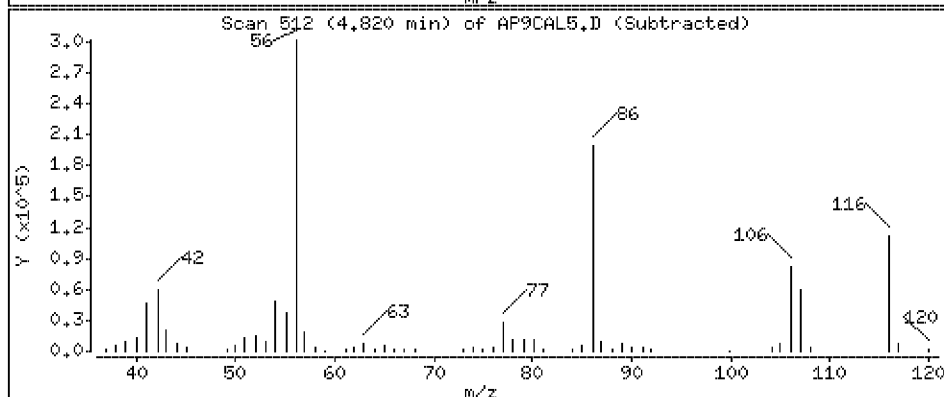
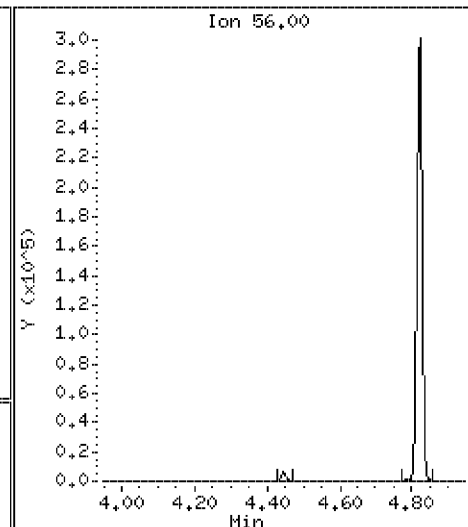
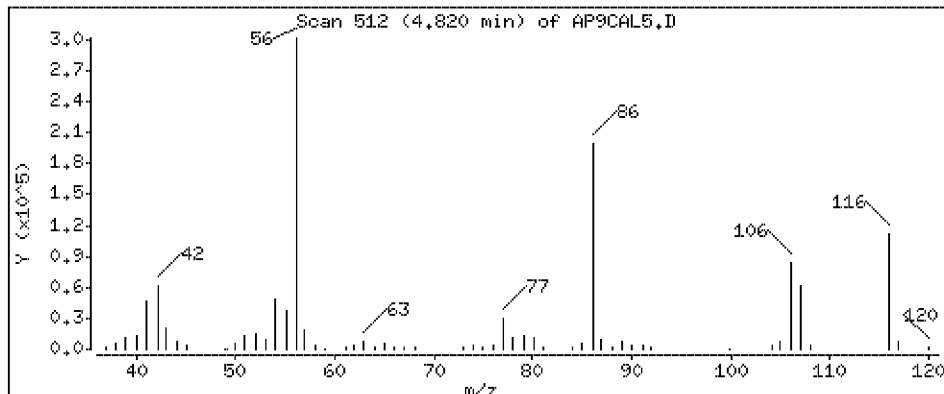
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

27 N-Nitrosomorpholine

Concentration: 61.6 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

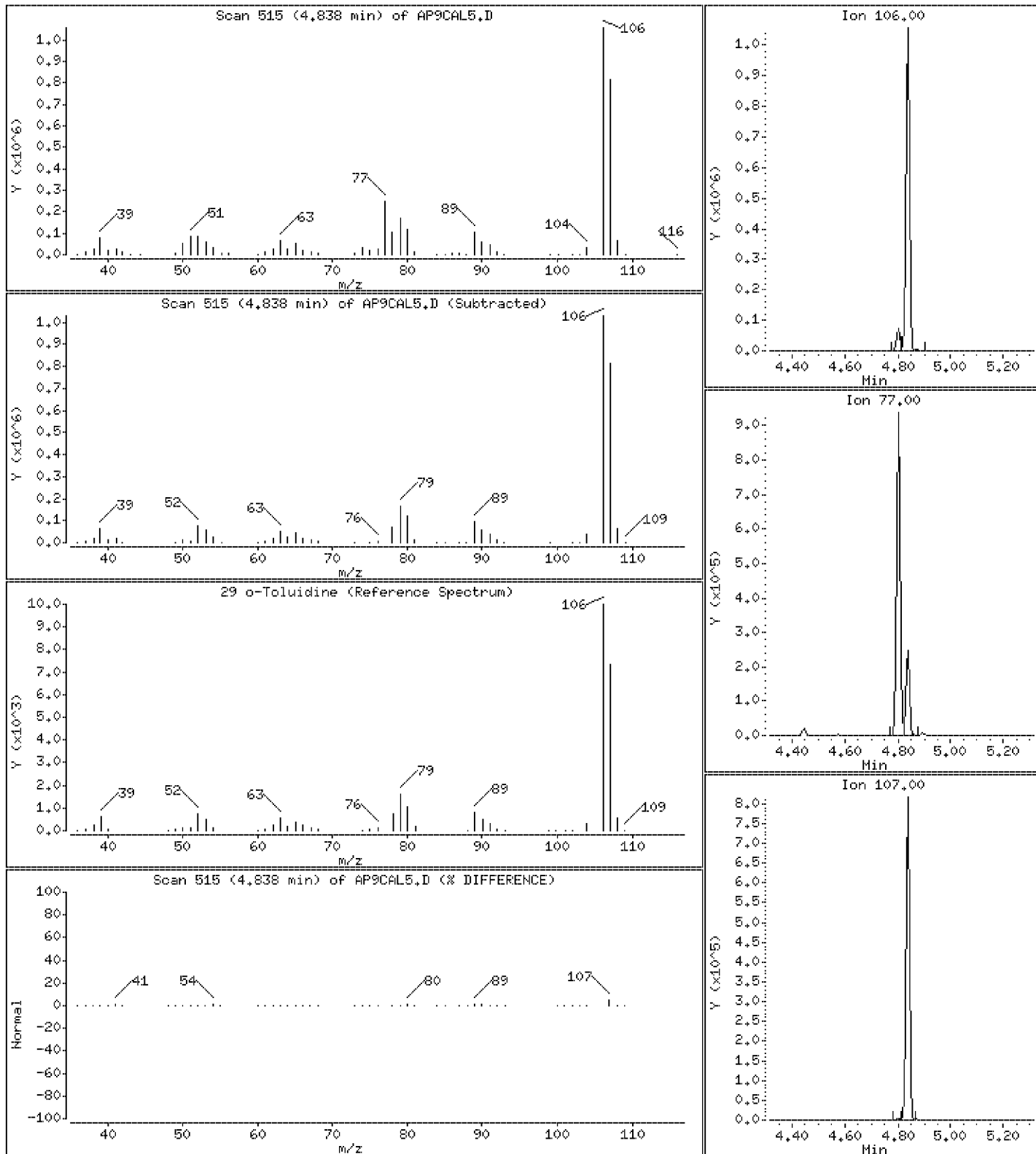
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

29 o-Toluidine

Concentration: 62.1 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

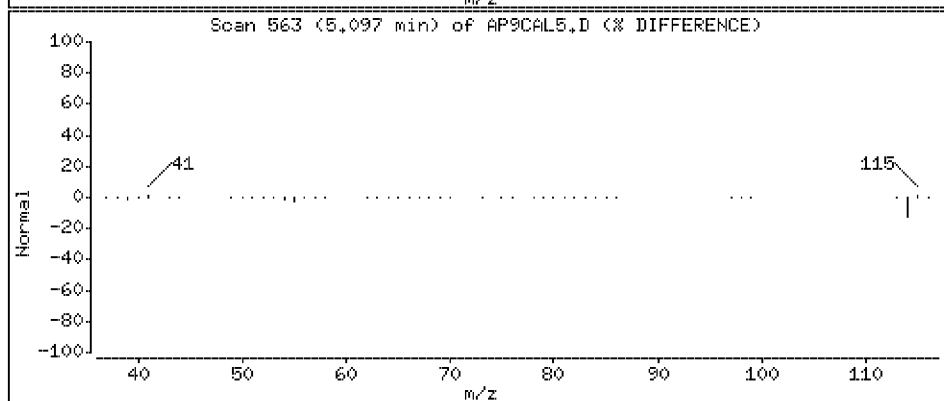
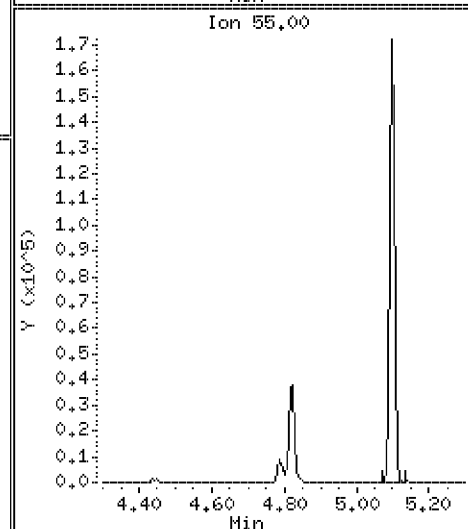
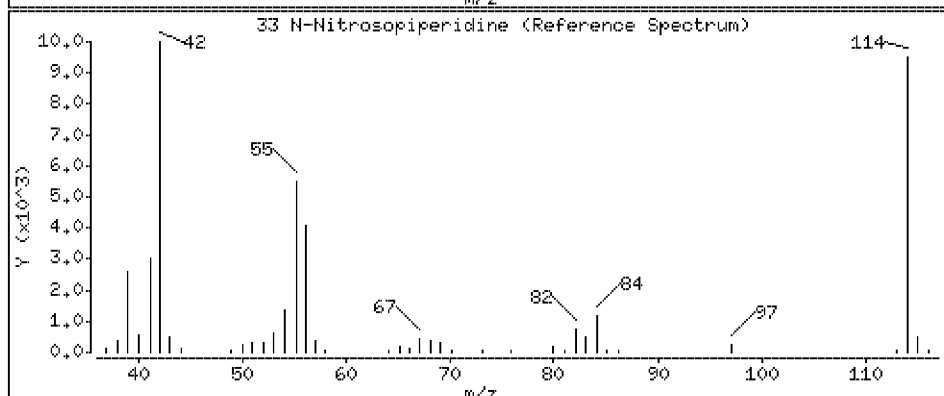
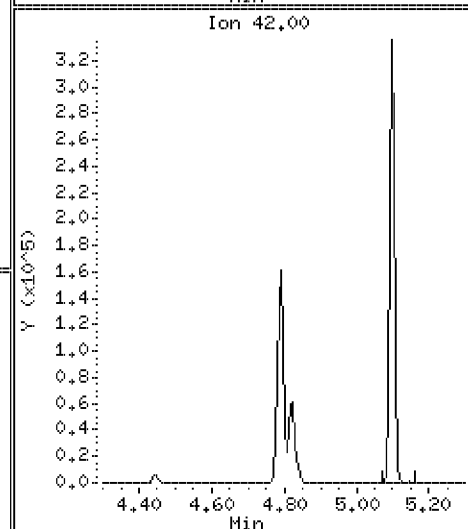
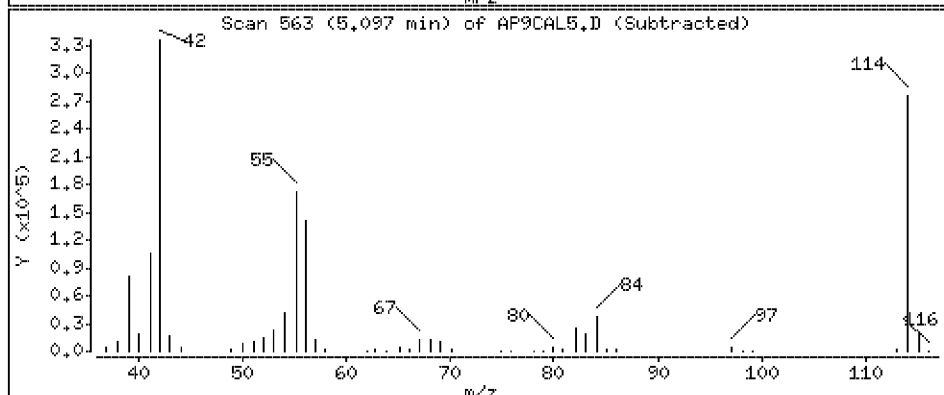
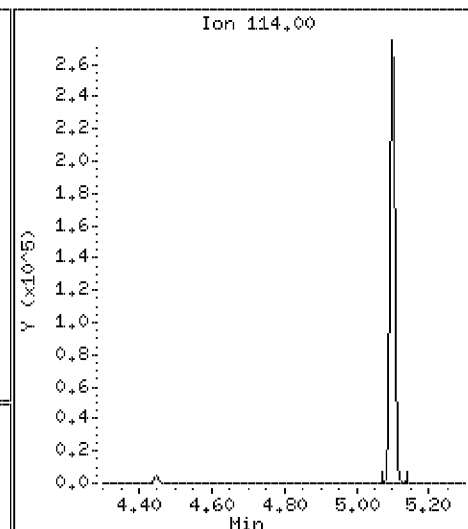
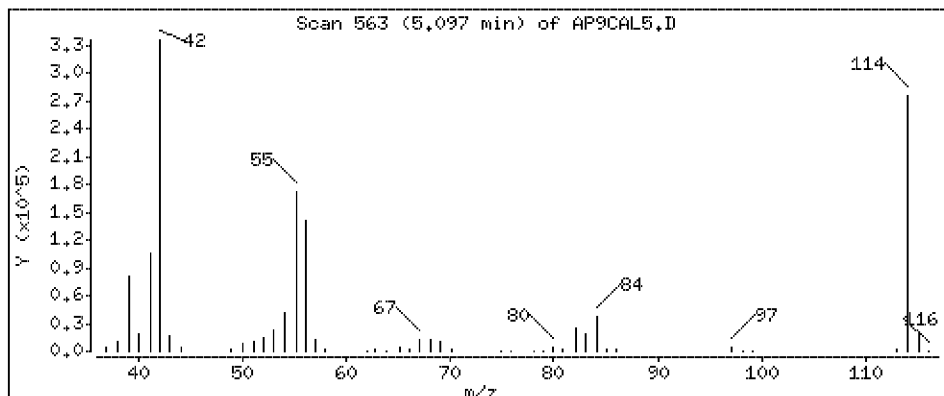
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

33 N-Nitrosopiperidine

Concentration: 61.6 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

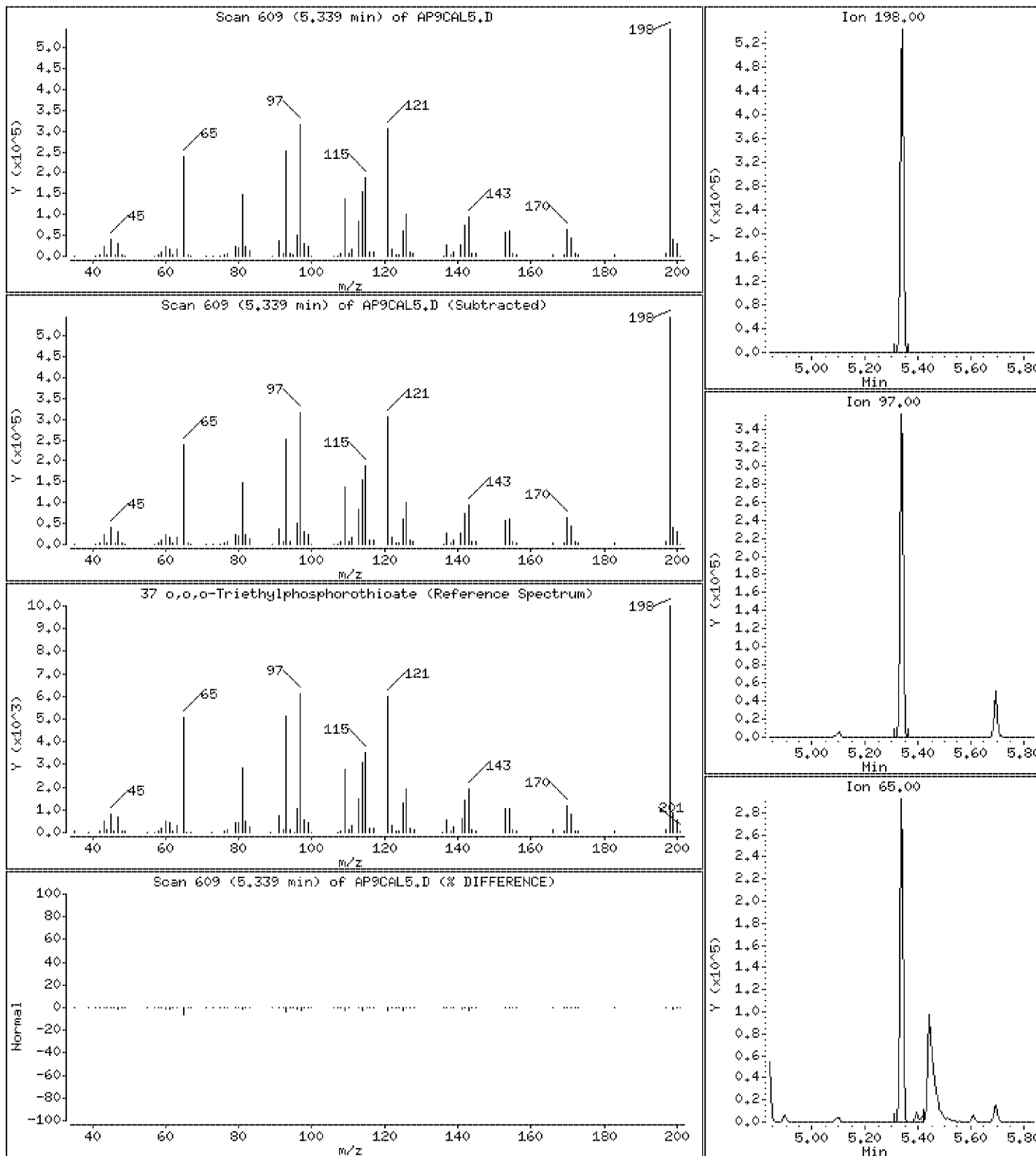
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

37 o,o,o-Triethylphosphorothioate

Concentration: 63.2 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

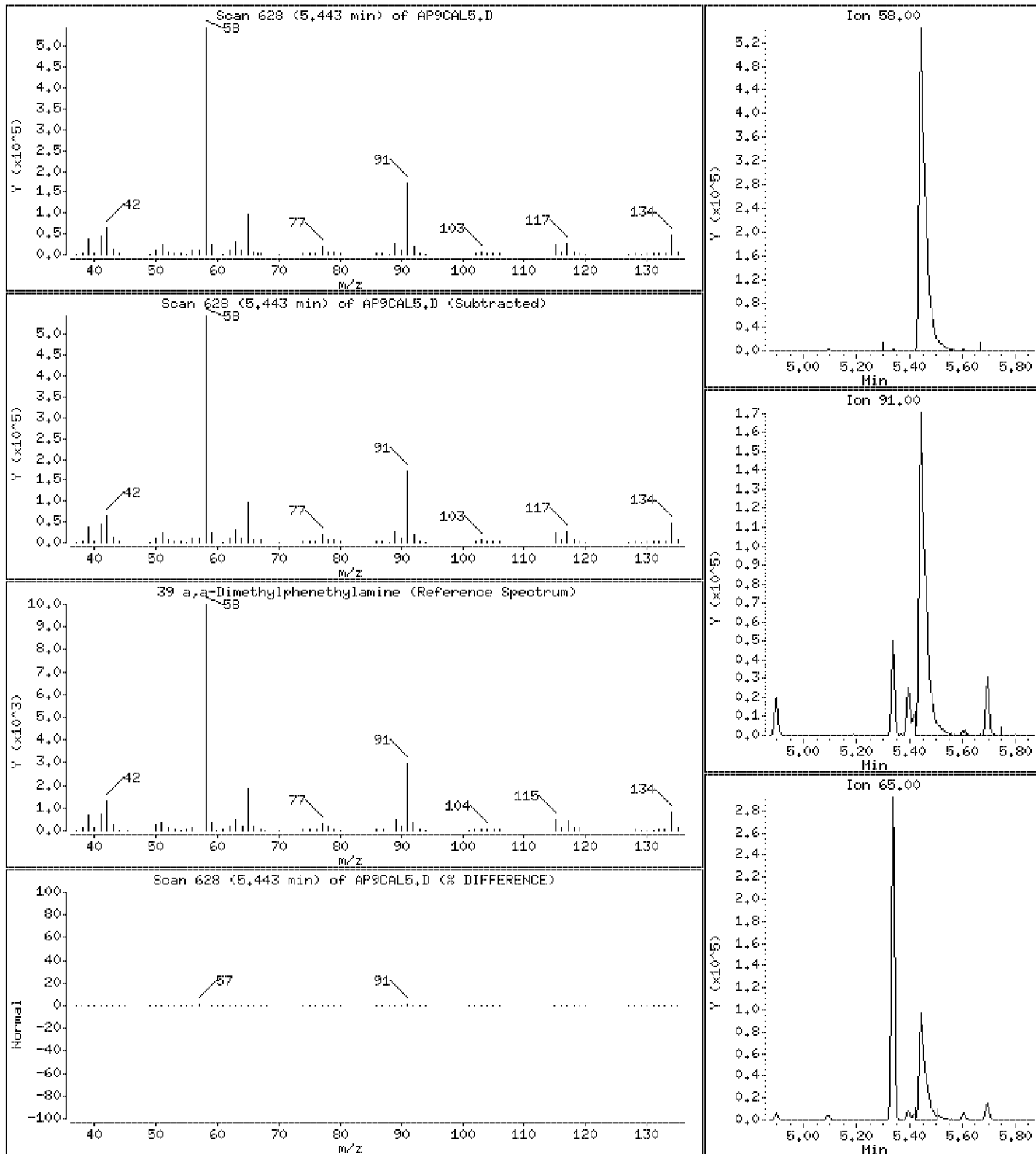
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

39 a,a-Dimethylphenethylamine

Concentration: 62.2 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

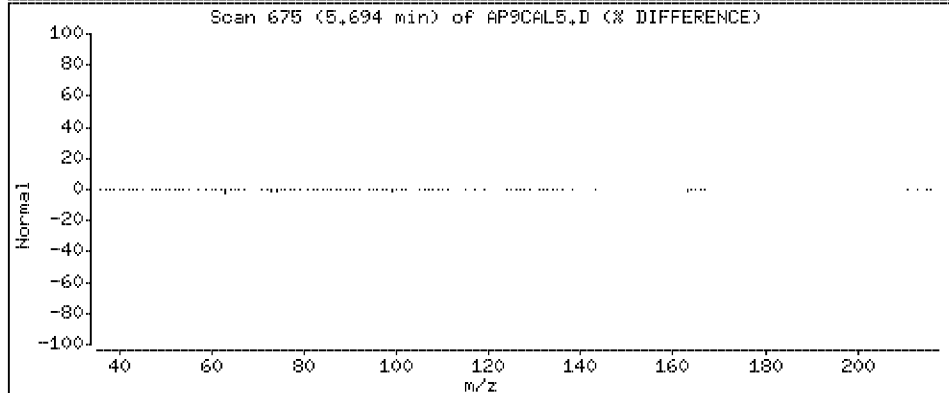
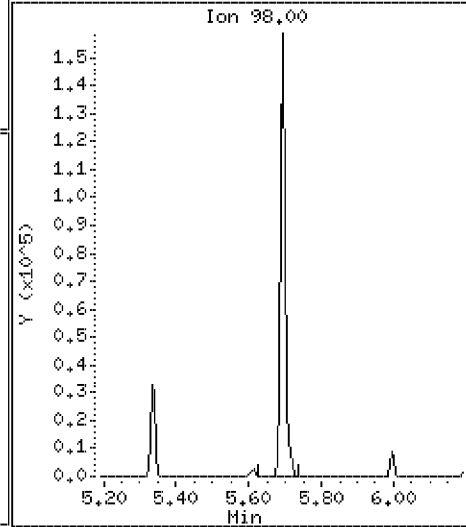
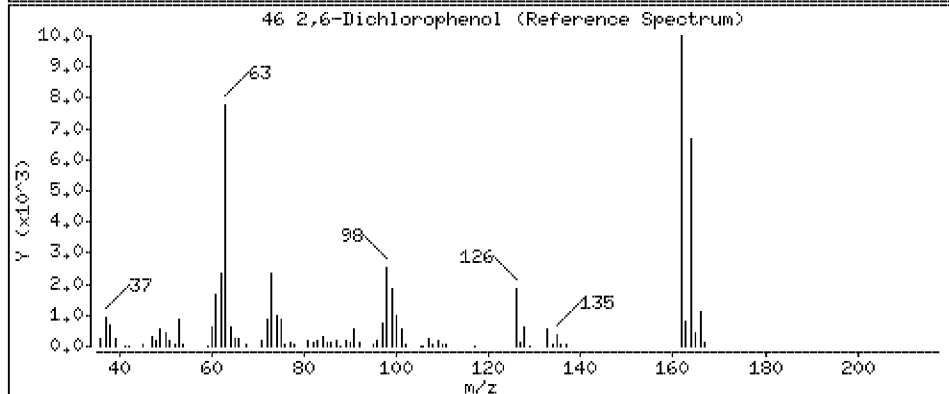
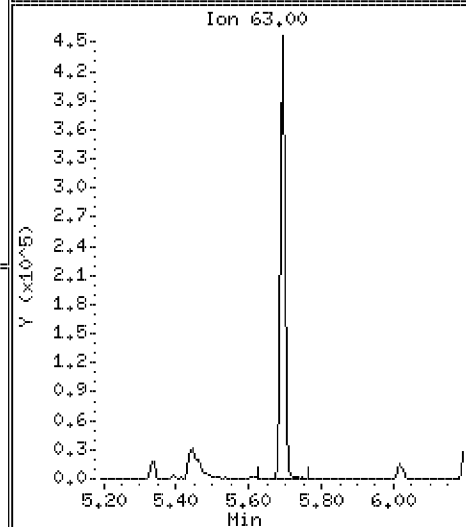
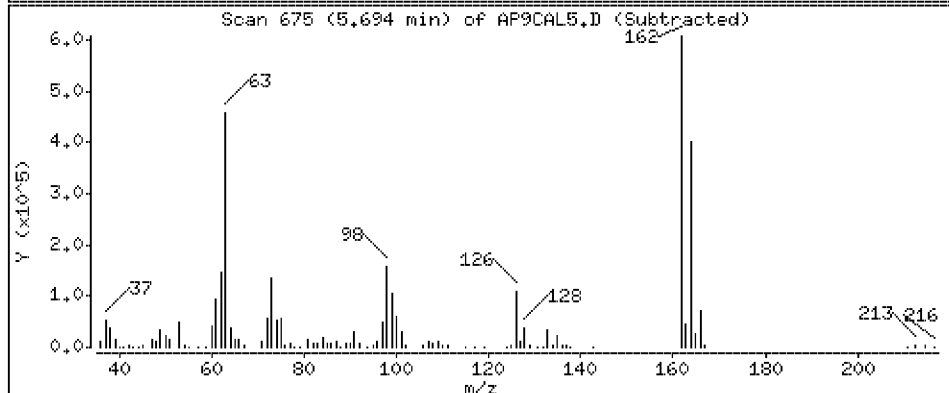
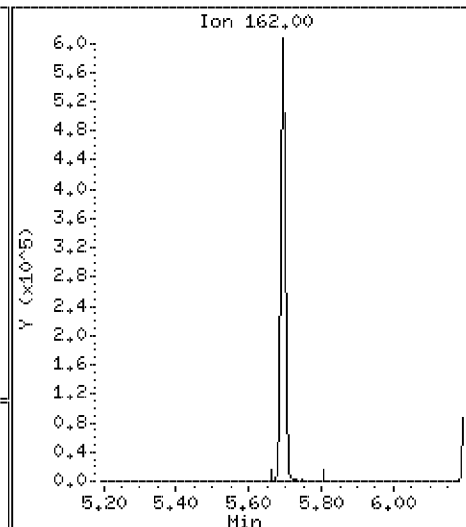
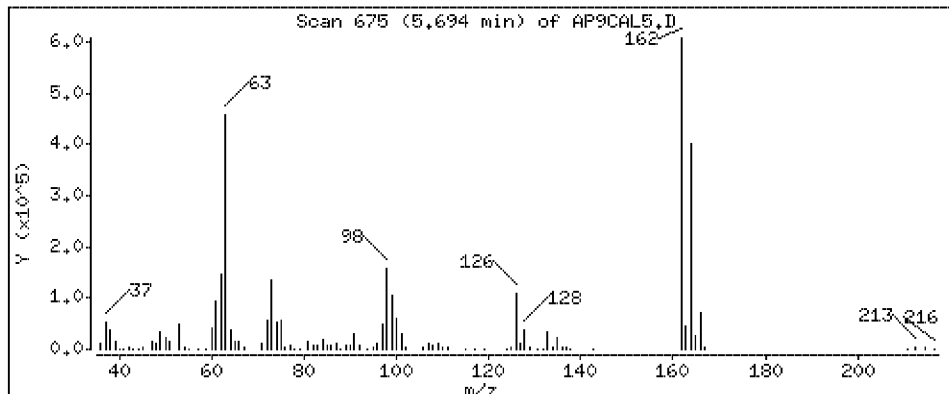
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

46 2,6-Dichlorophenol

Concentration: 62.8 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

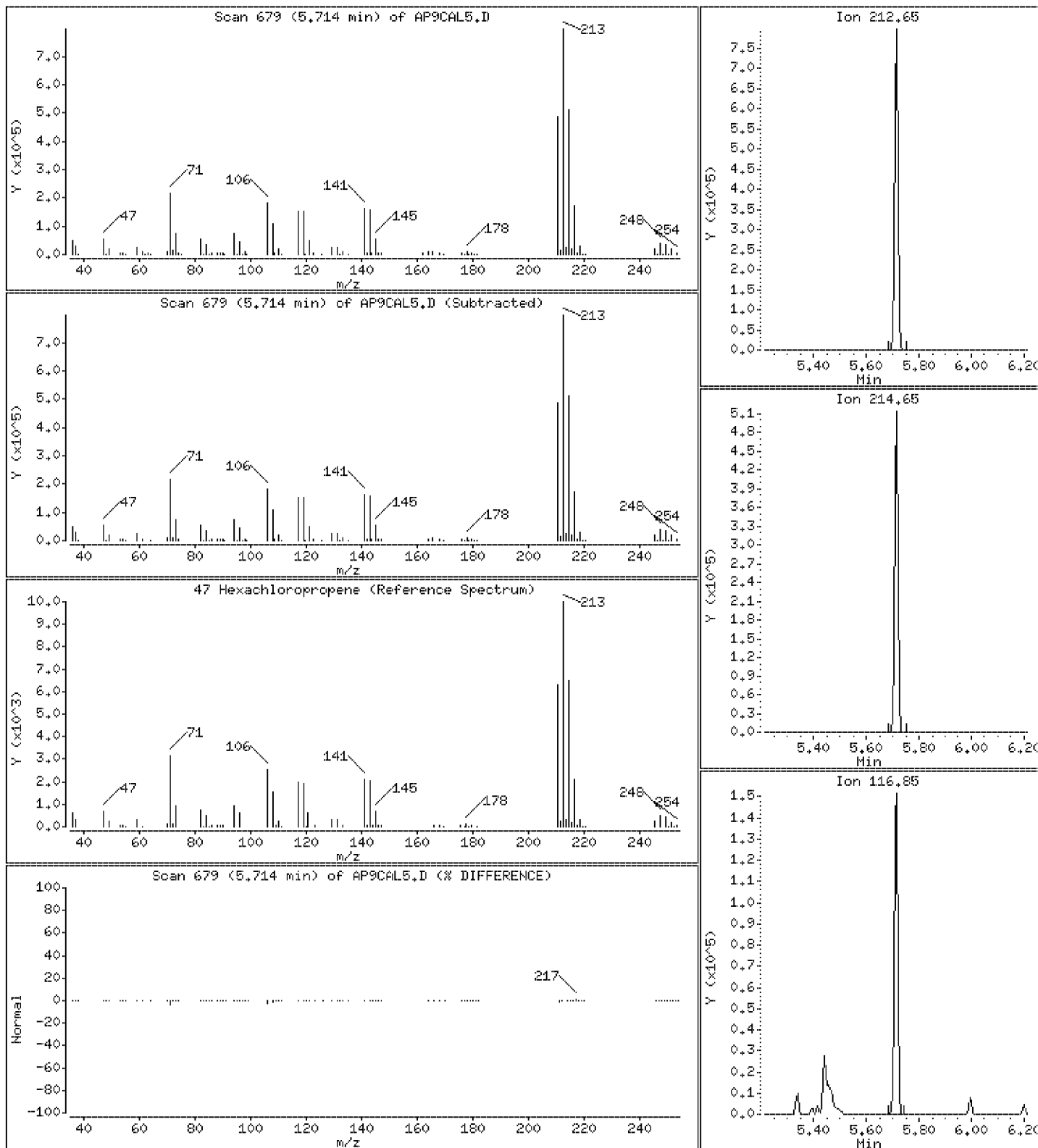
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

47 Hexachloropropene

Concentration: 62.7 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

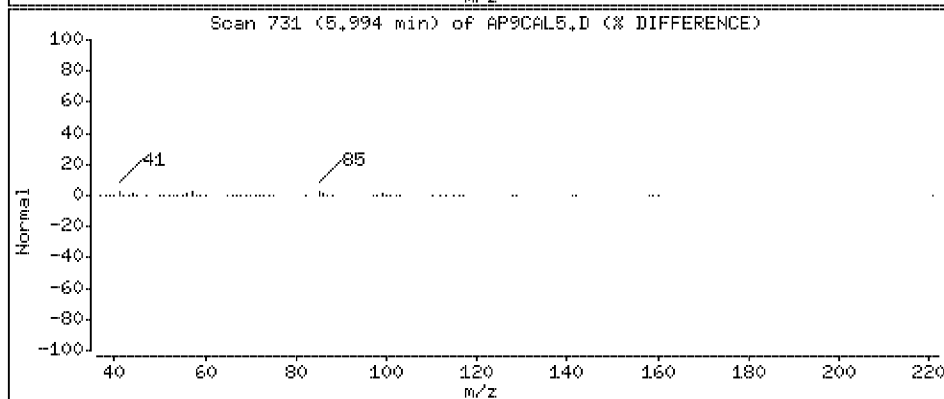
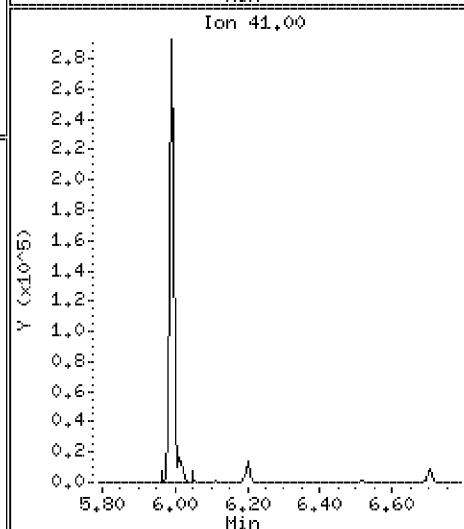
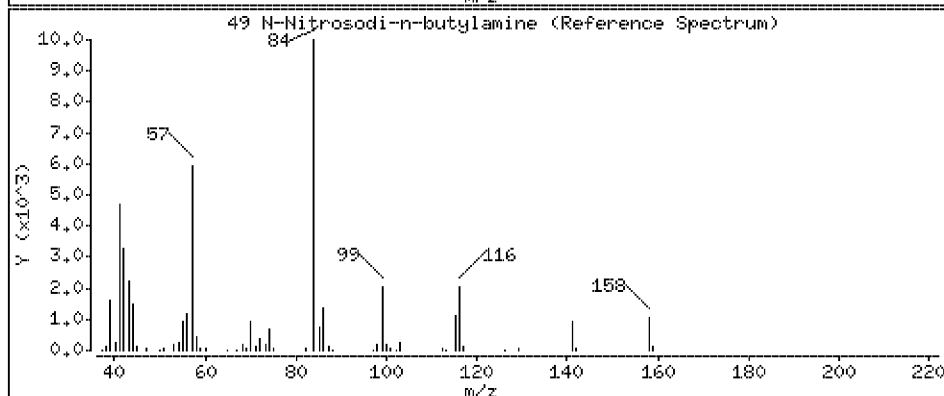
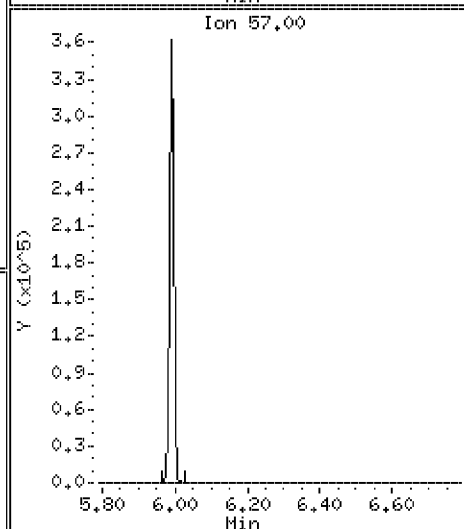
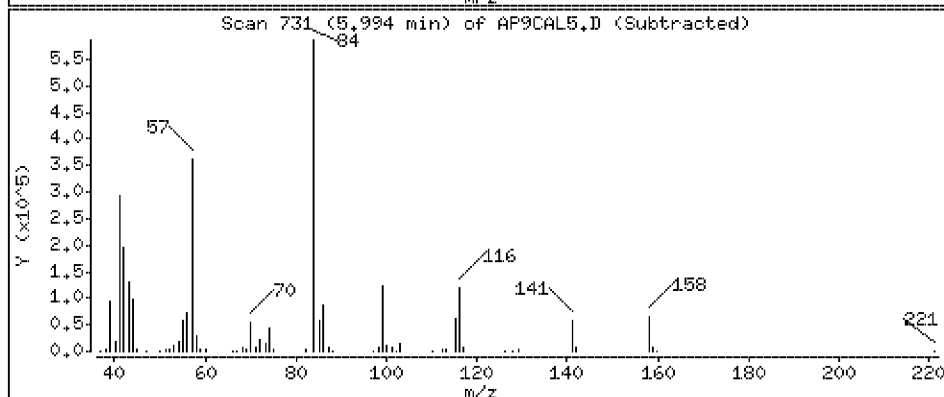
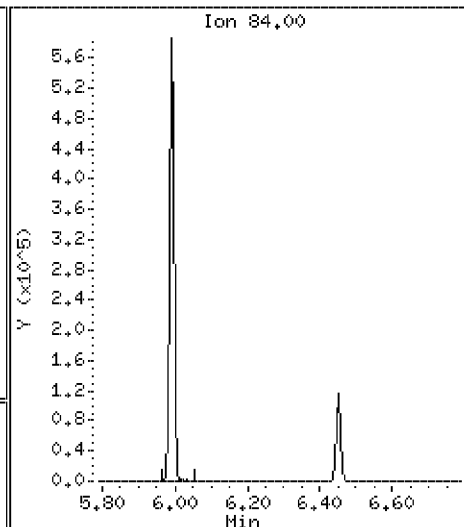
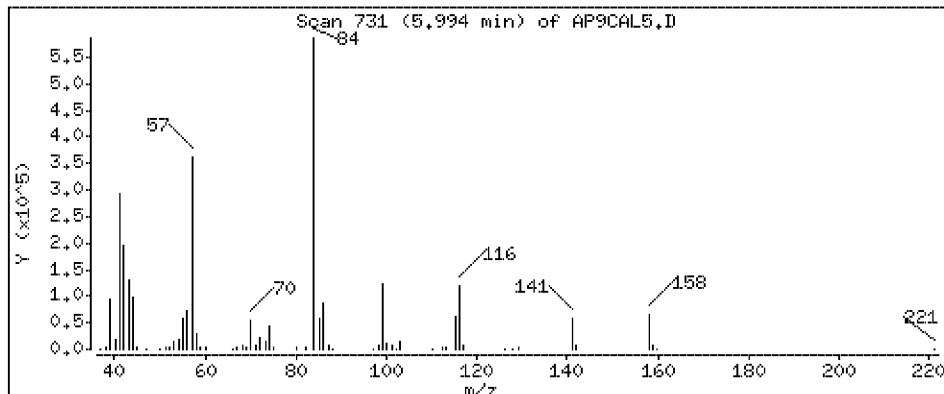
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

49 N-Nitrosodi-n-butylamine

Concentration: 62.4 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

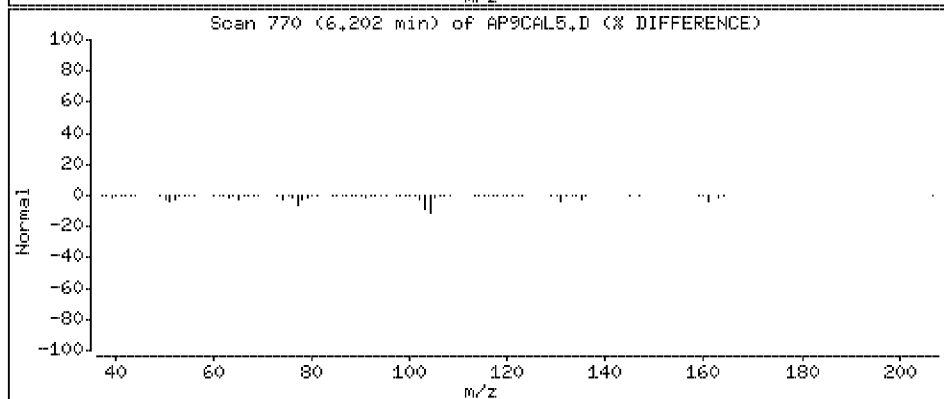
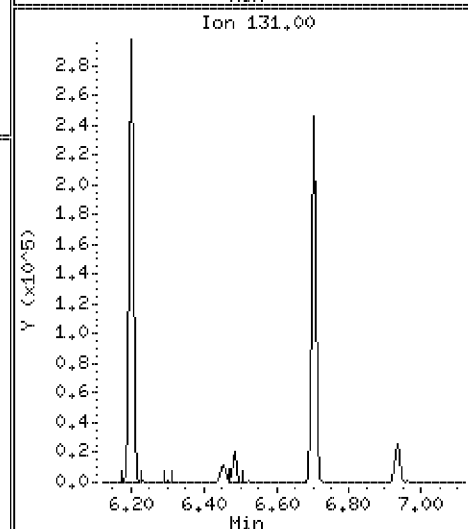
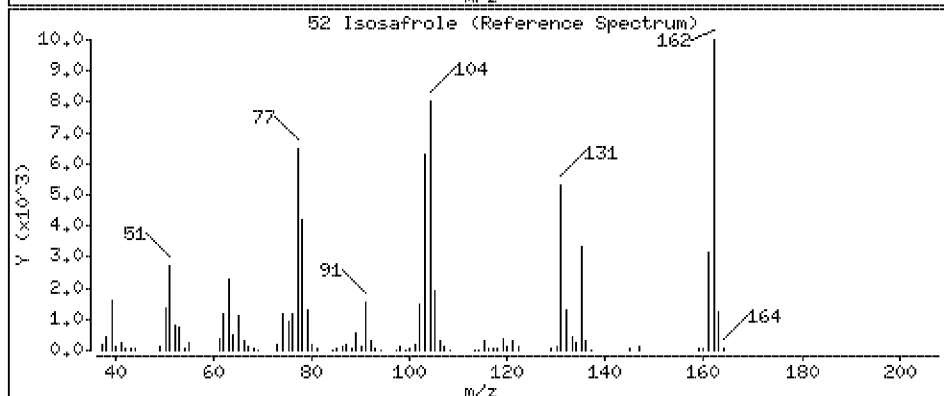
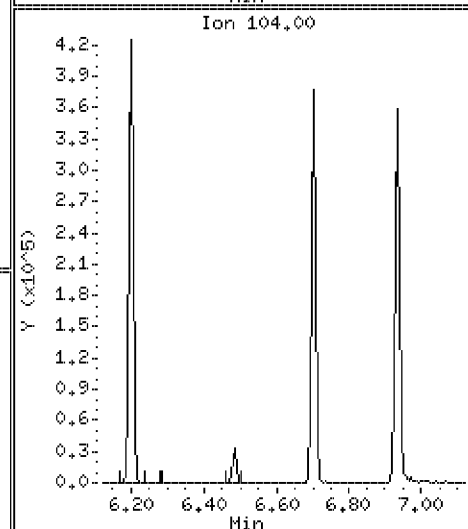
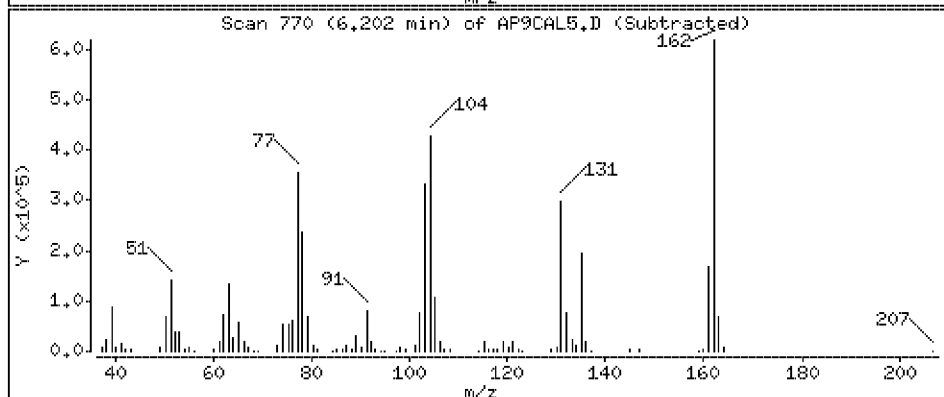
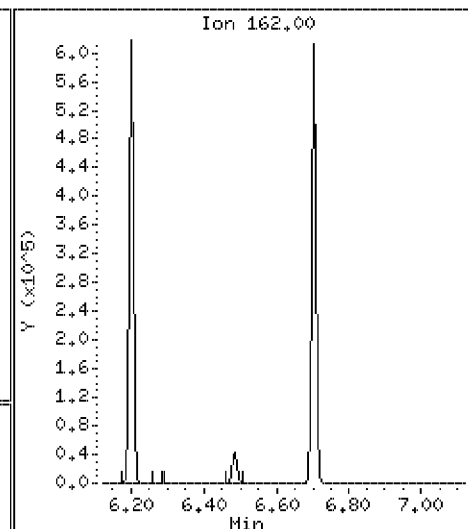
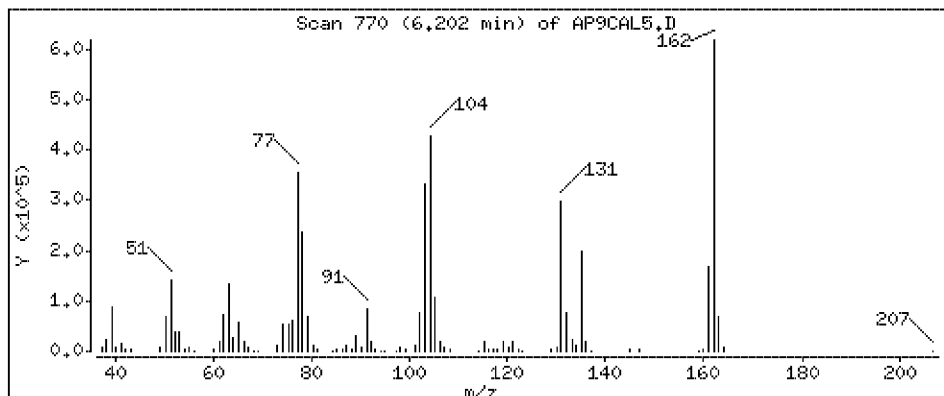
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

52 Isosafrole

Concentration: 61.8 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

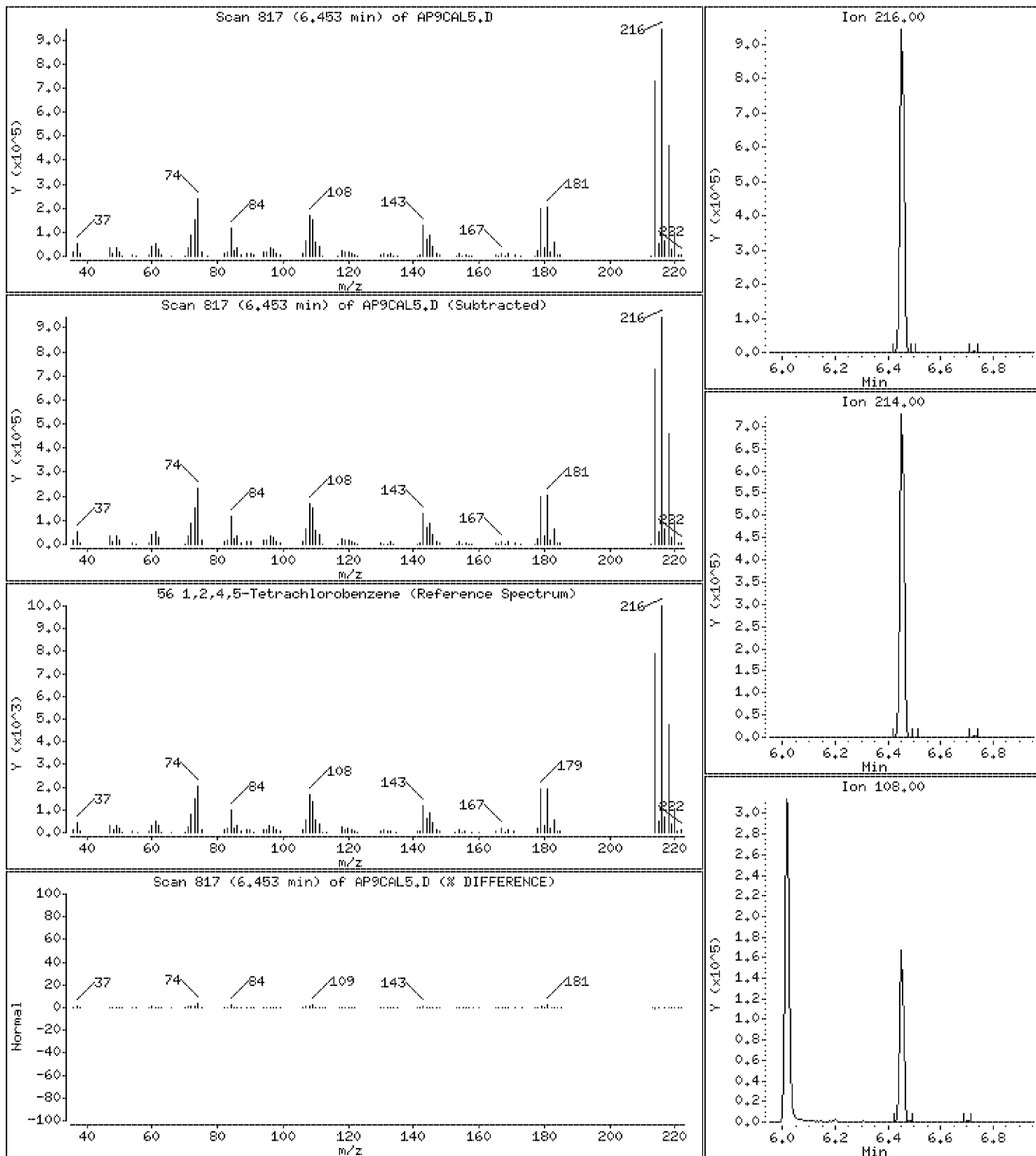
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

56 1,2,4,5-Tetrachlorobenzene

Concentration: 62.7 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

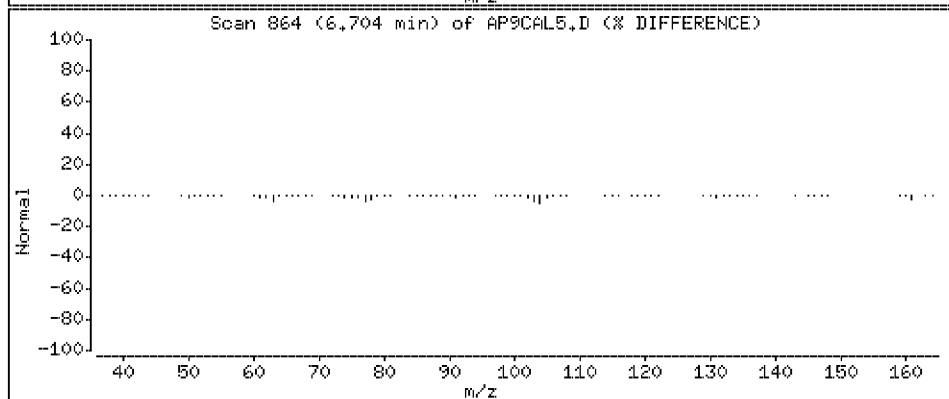
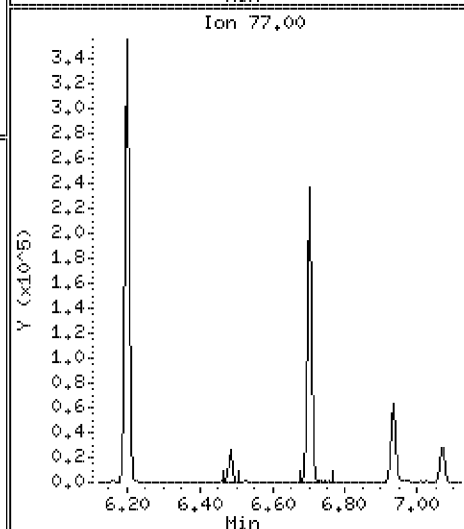
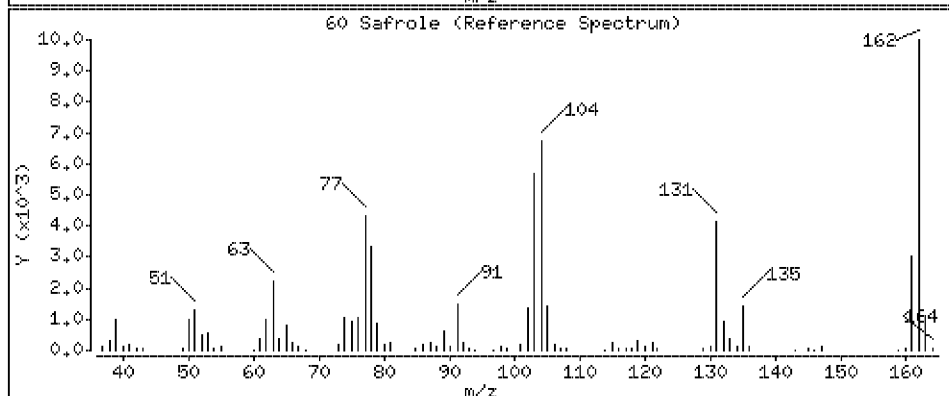
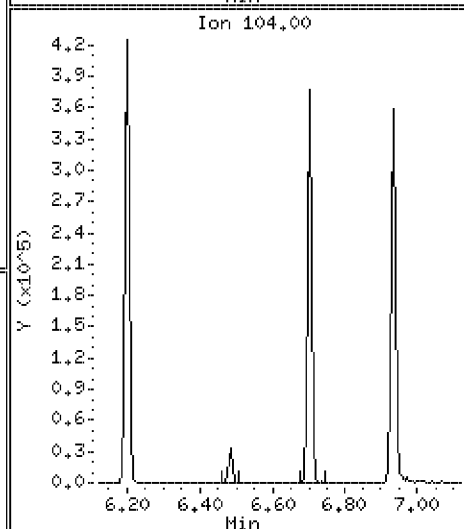
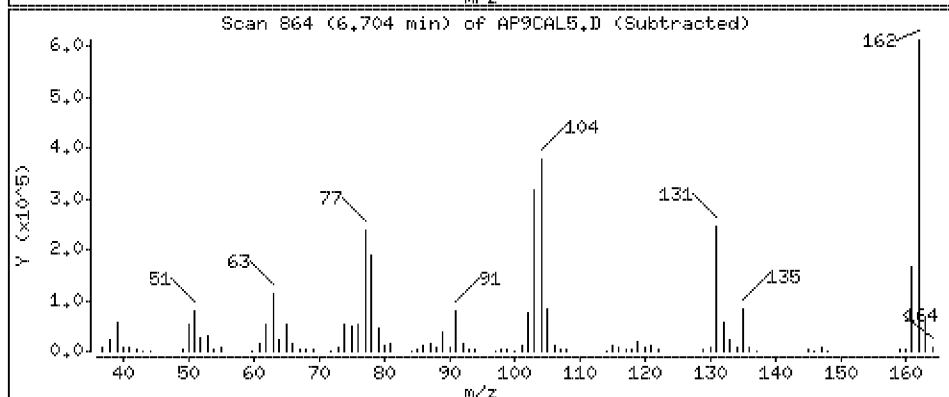
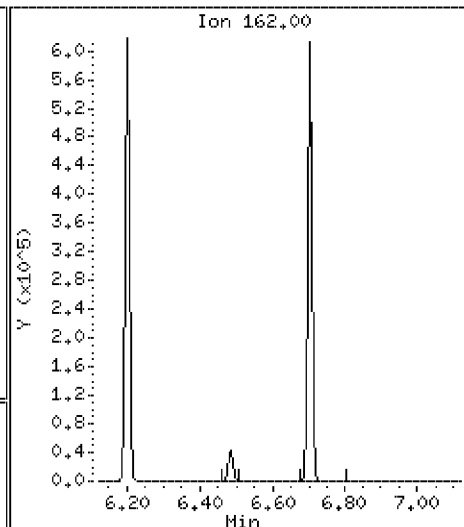
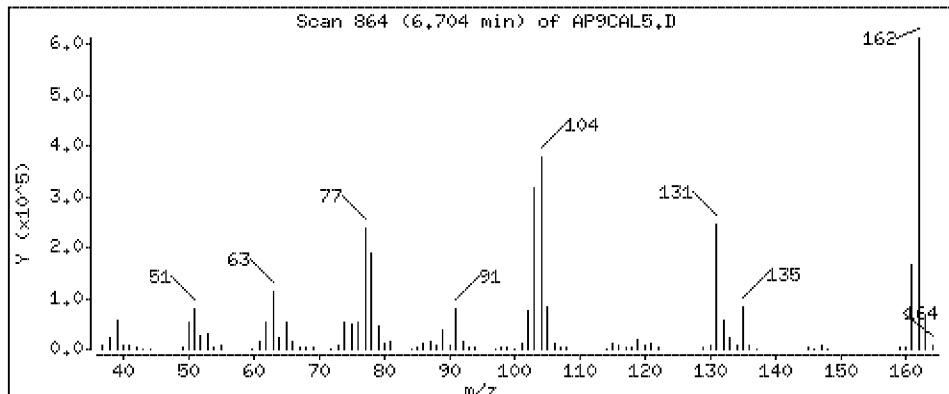
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

60 Safrole

Concentration: 64.1 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

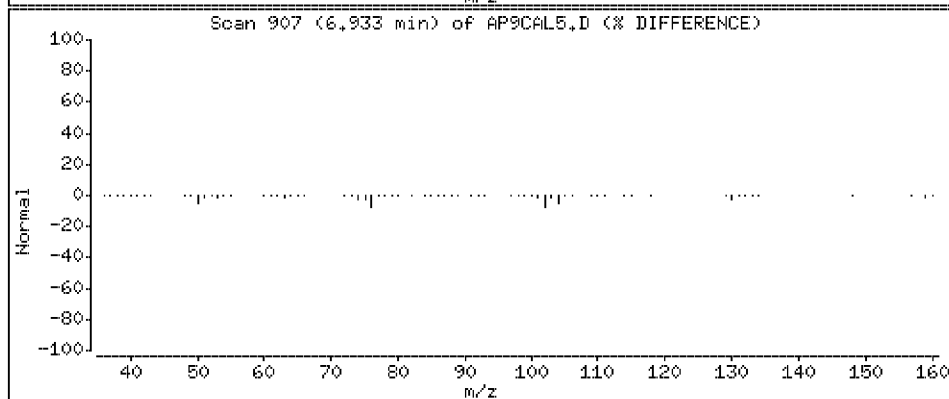
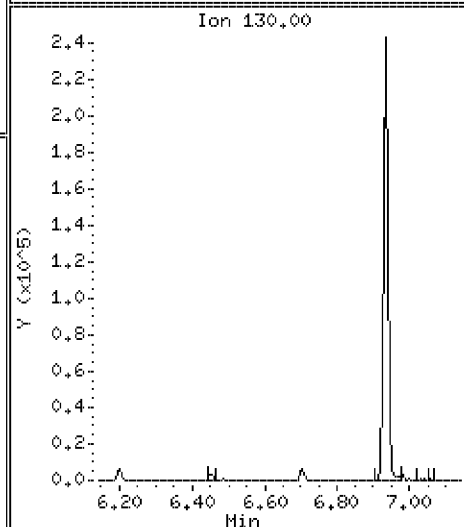
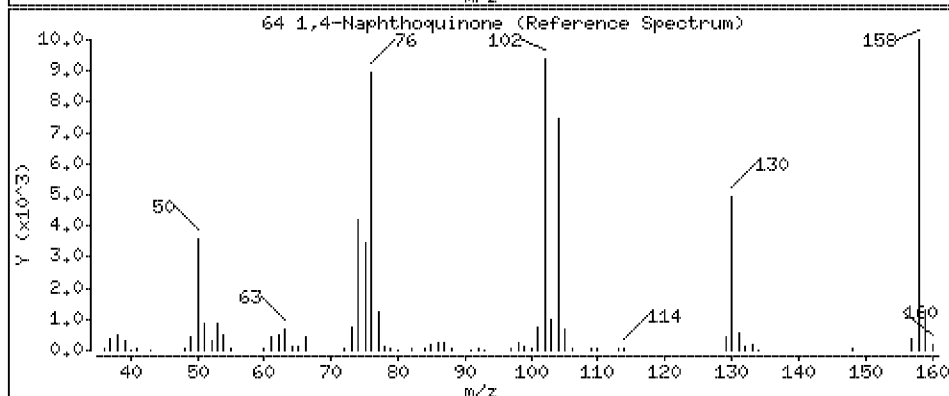
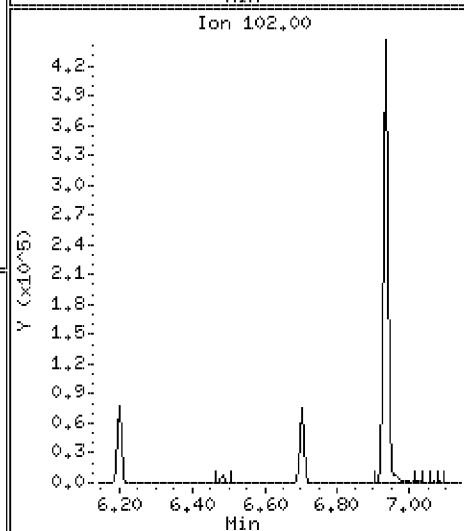
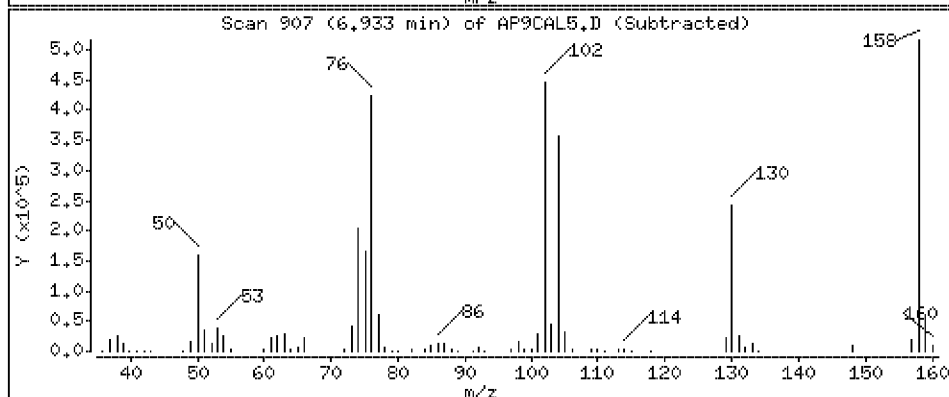
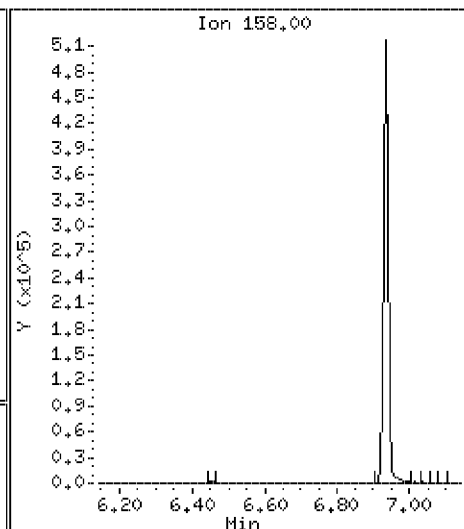
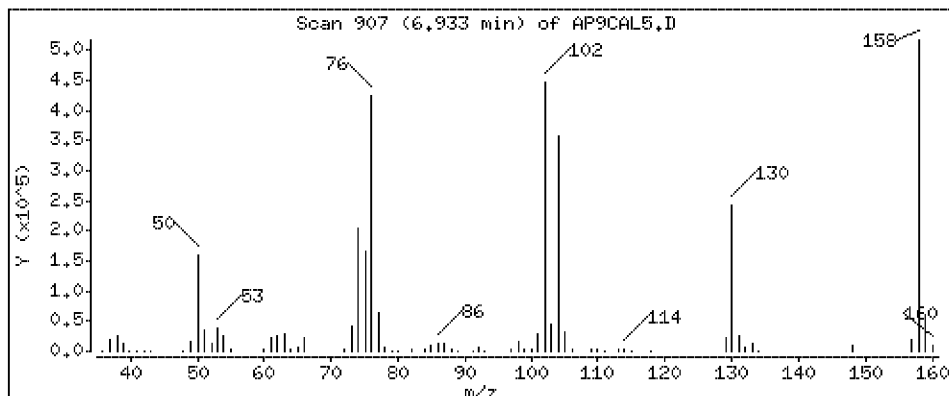
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

64 1,4-Naphthoquinone

Concentration: 64.2 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

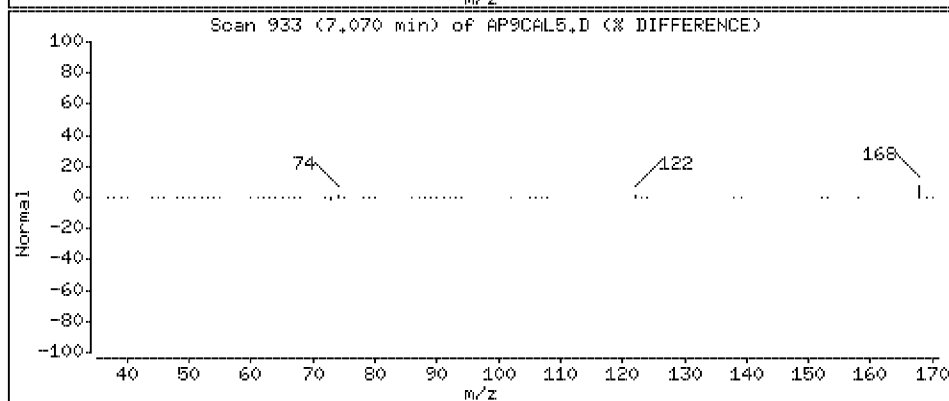
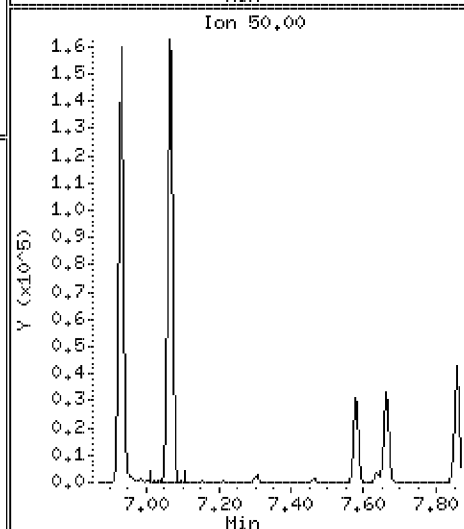
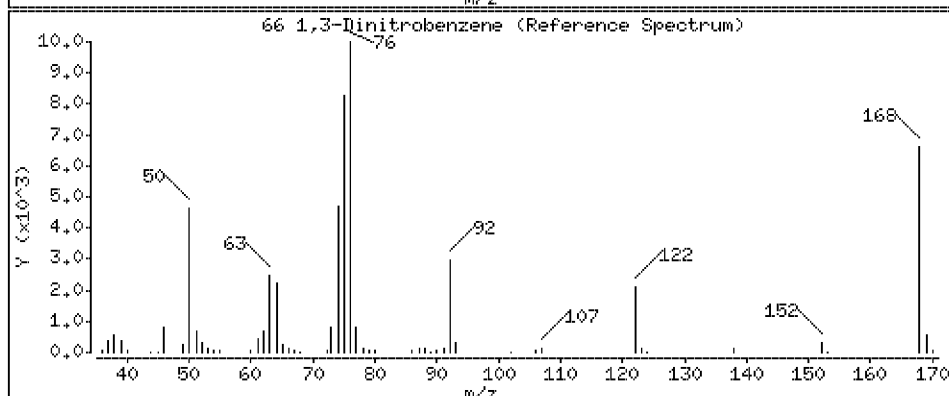
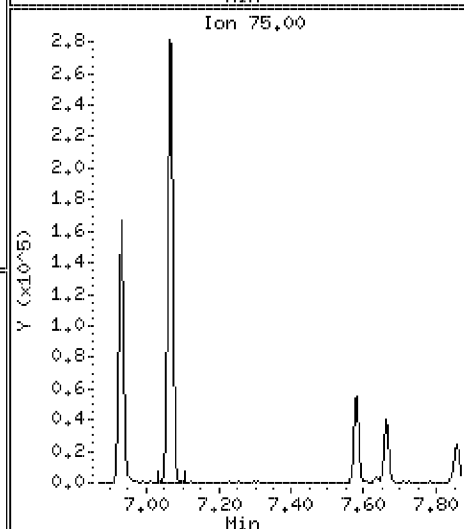
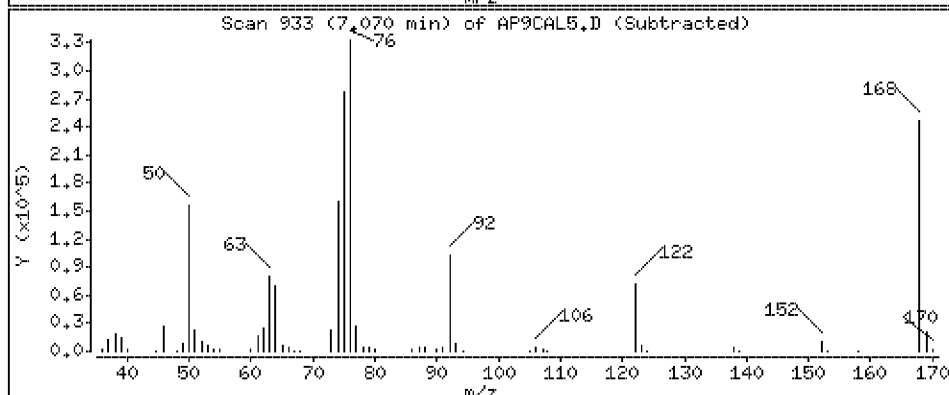
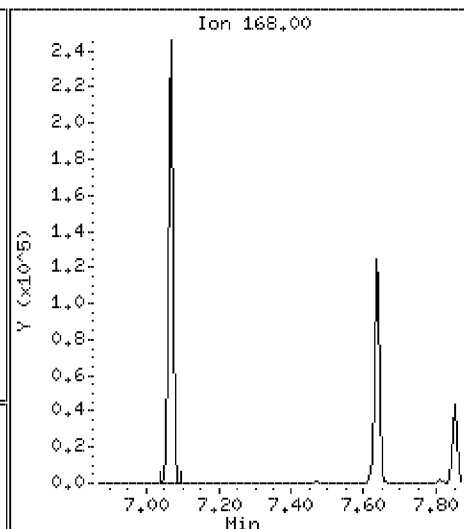
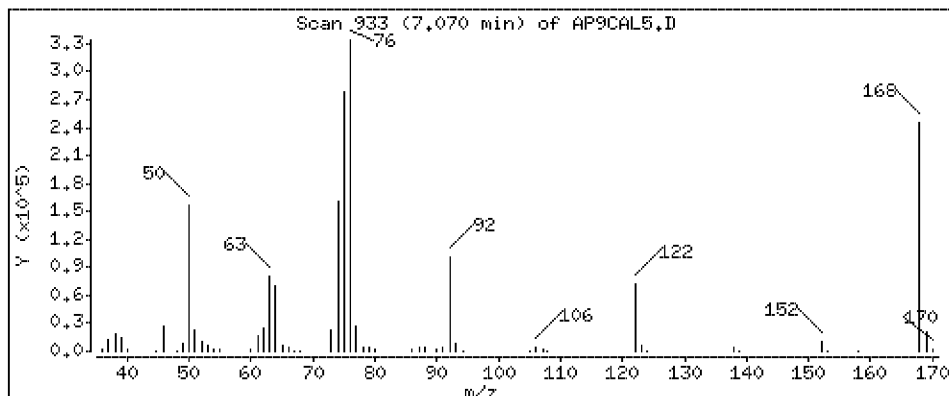
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

66 1,3-Dinitrobenzene

Concentration: 63.5 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

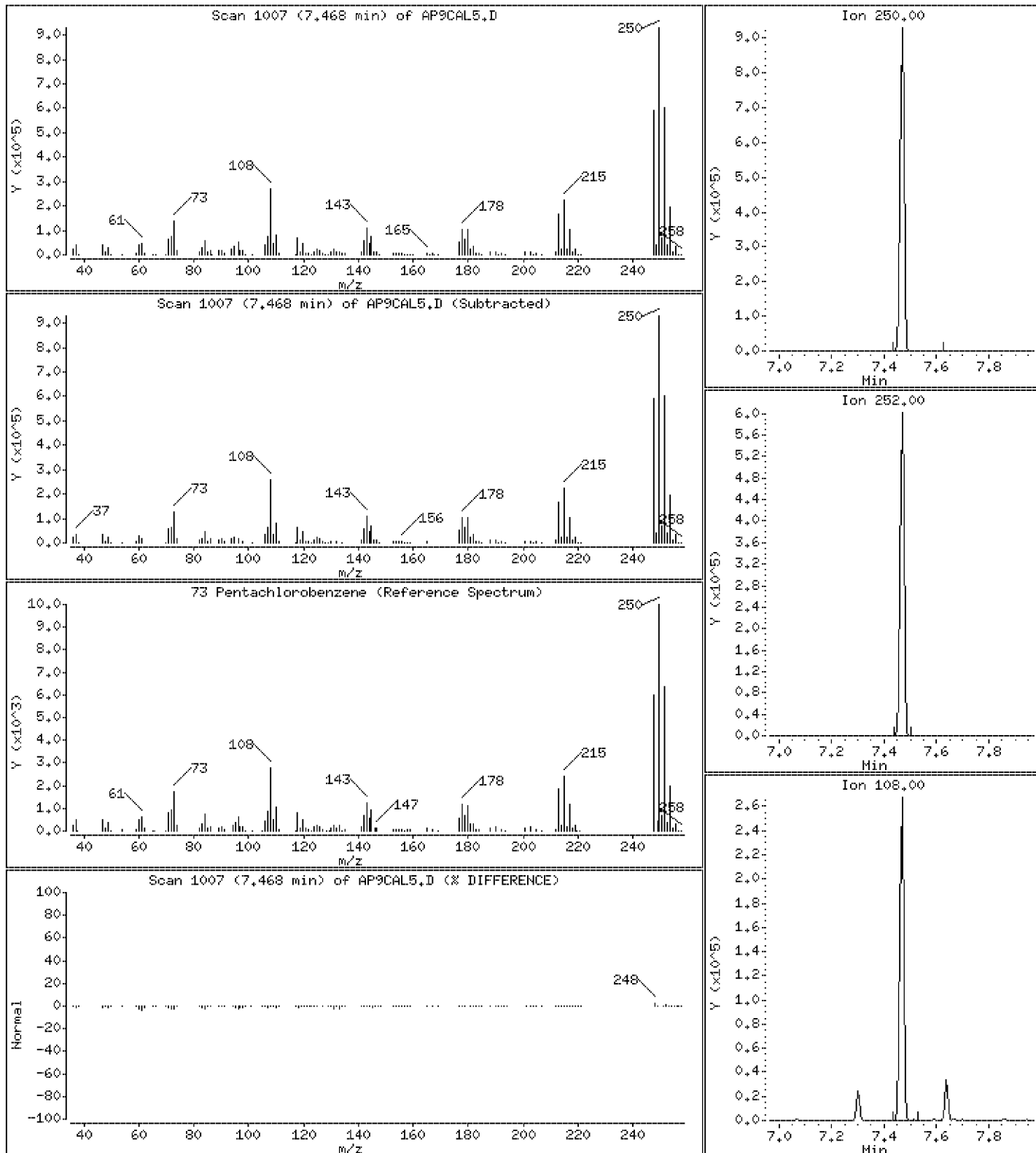
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

73 Pentachlorobenzene

Concentration: 63.1 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

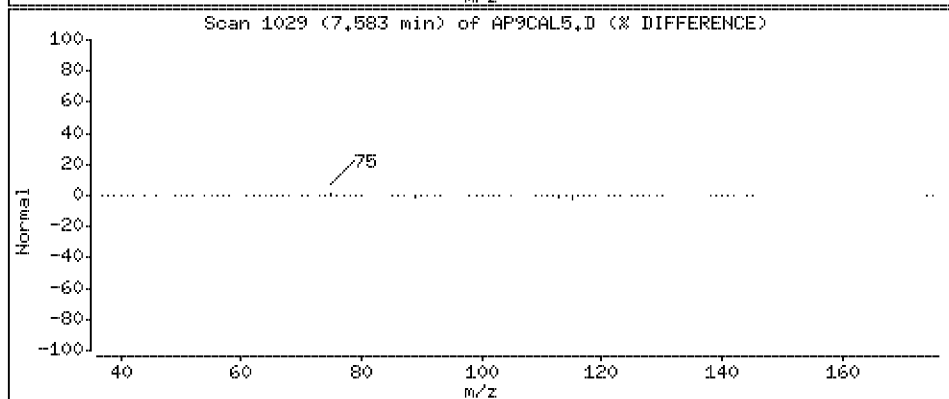
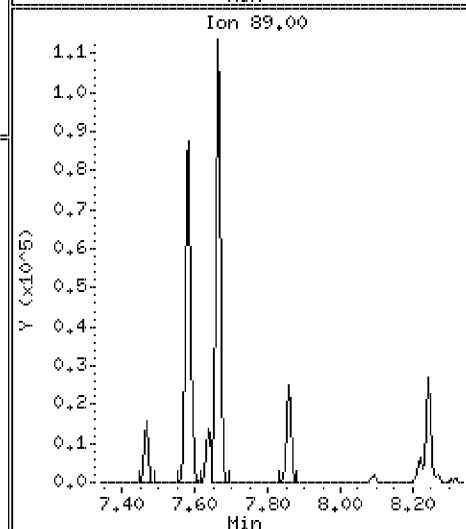
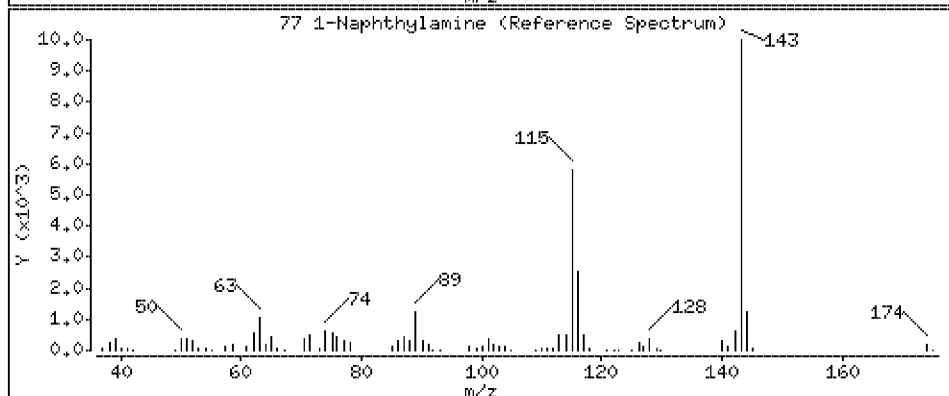
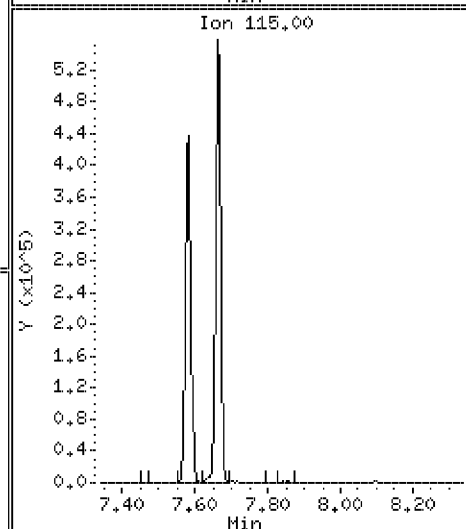
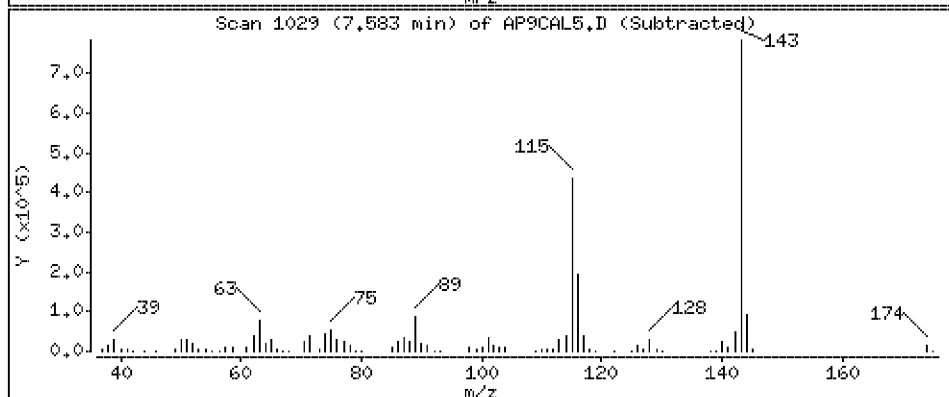
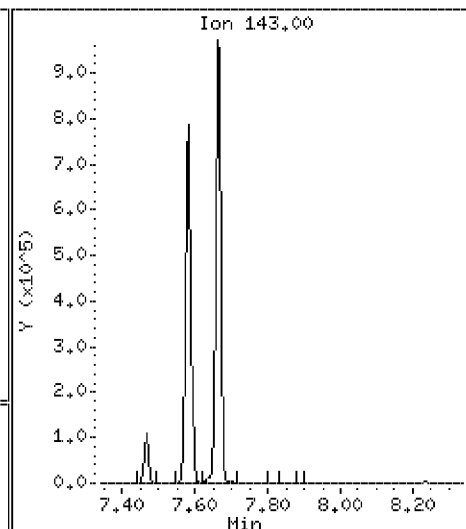
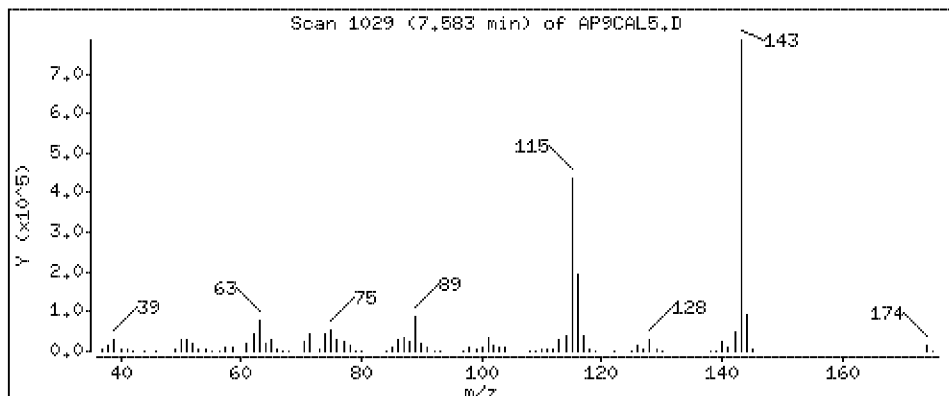
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

77 1-Naphthylamine

Concentration: 62.2 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

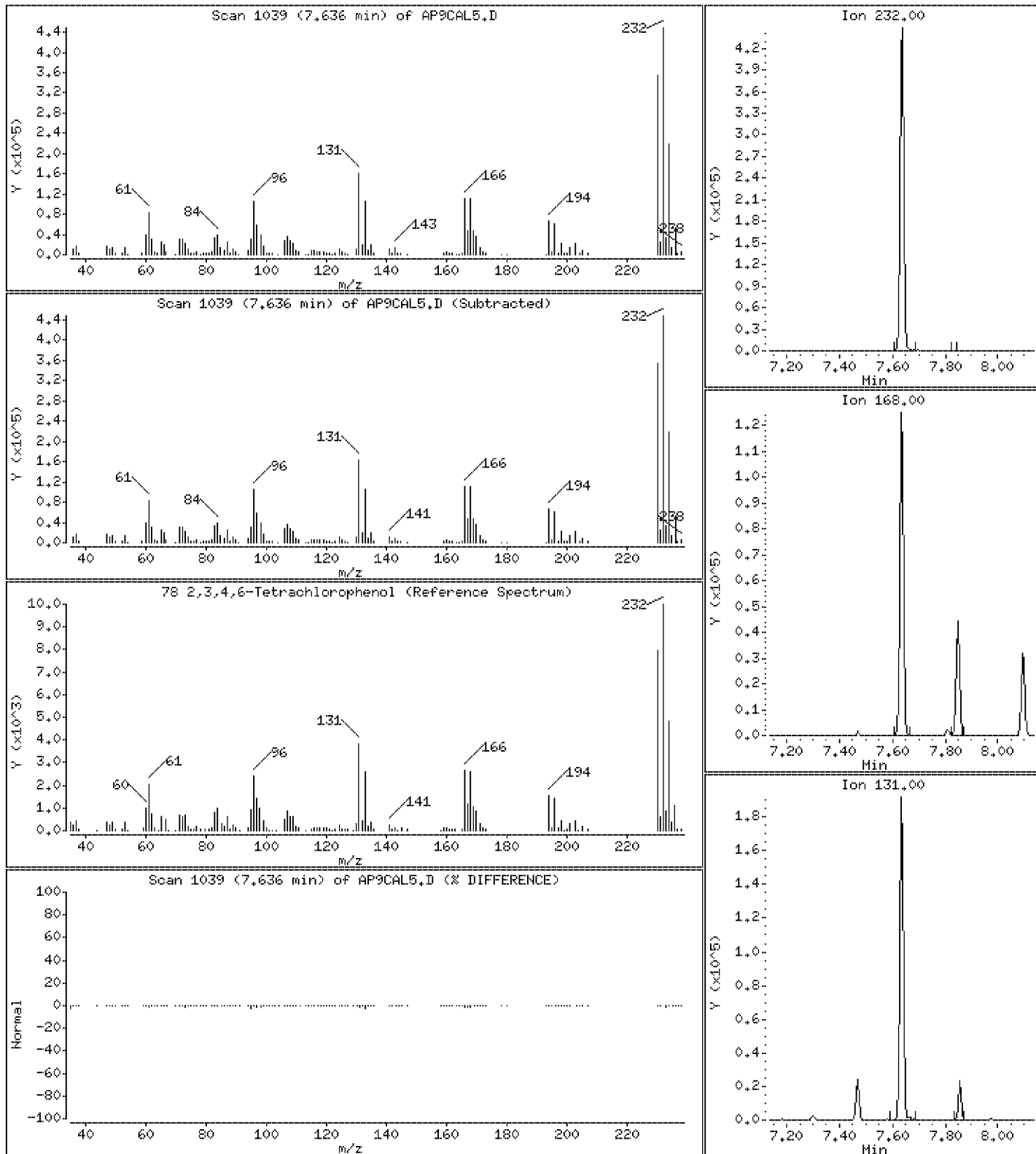
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

78 2,3,4,6-Tetrachlorophenol

Concentration: 63.0 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

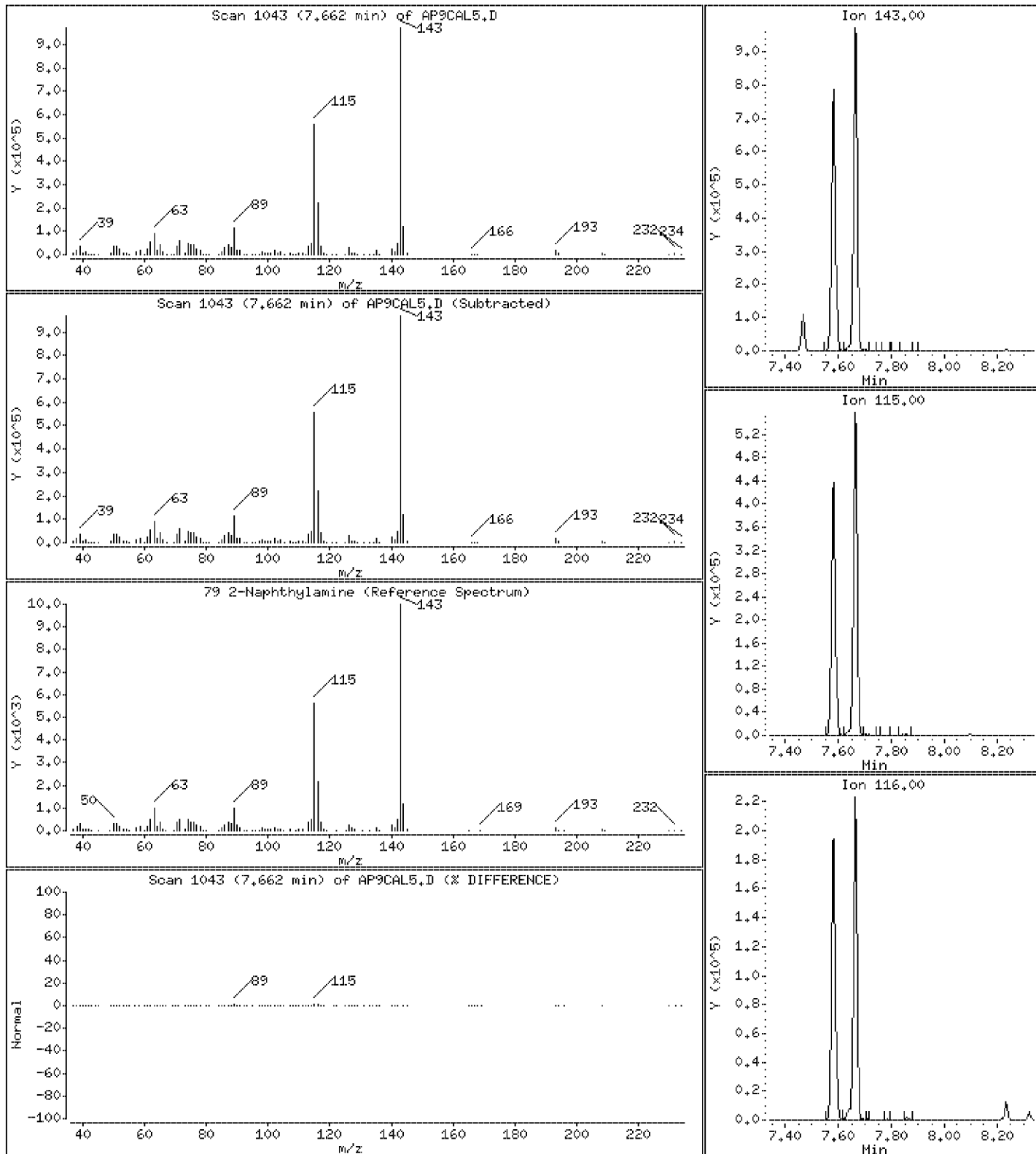
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

79 2-Naphthylamine

Concentration: 62.1 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

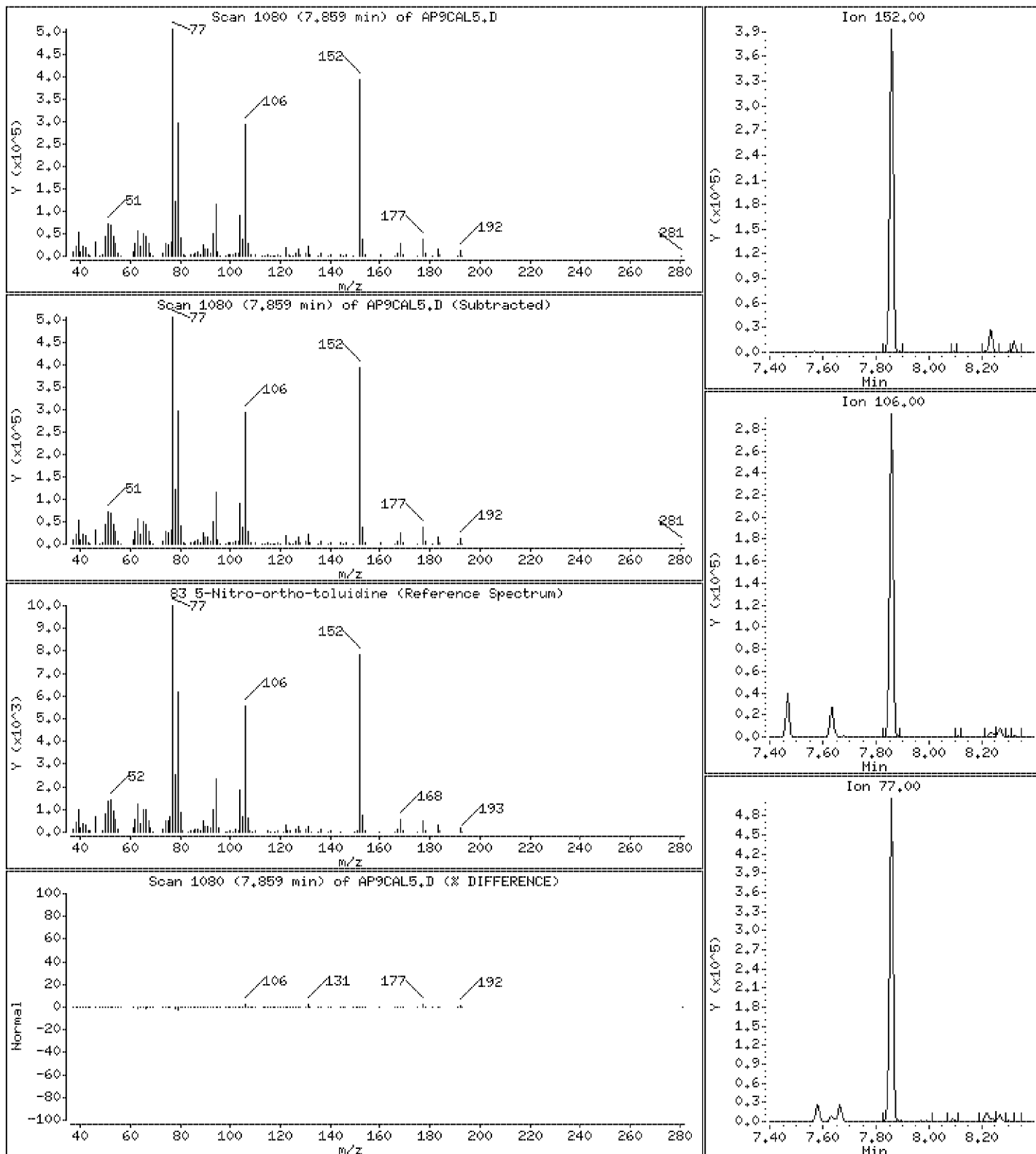
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

83 5-Nitro-ortho-toluidine

Concentration: 63.5 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

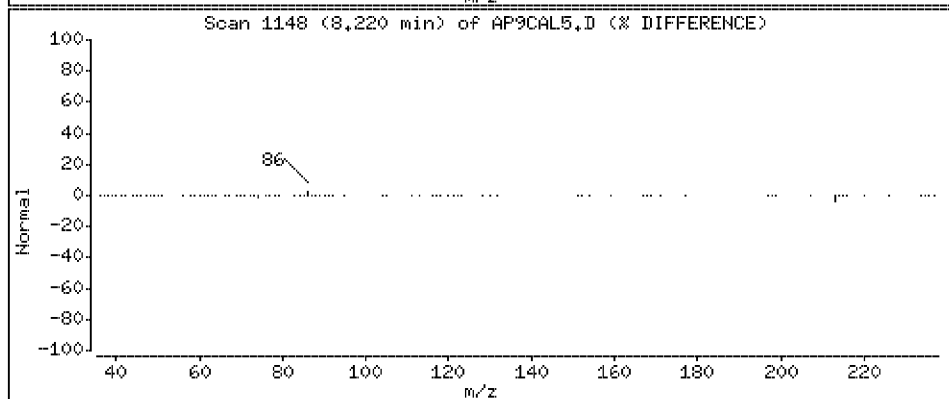
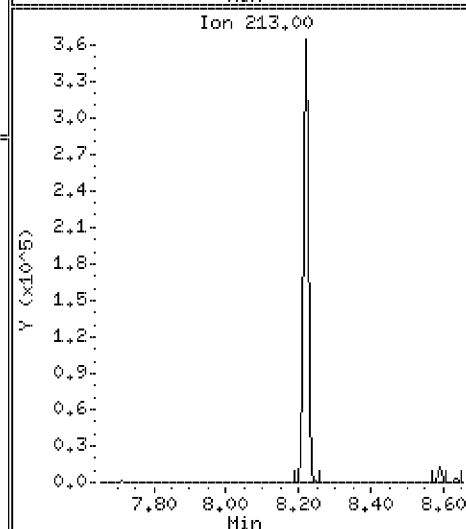
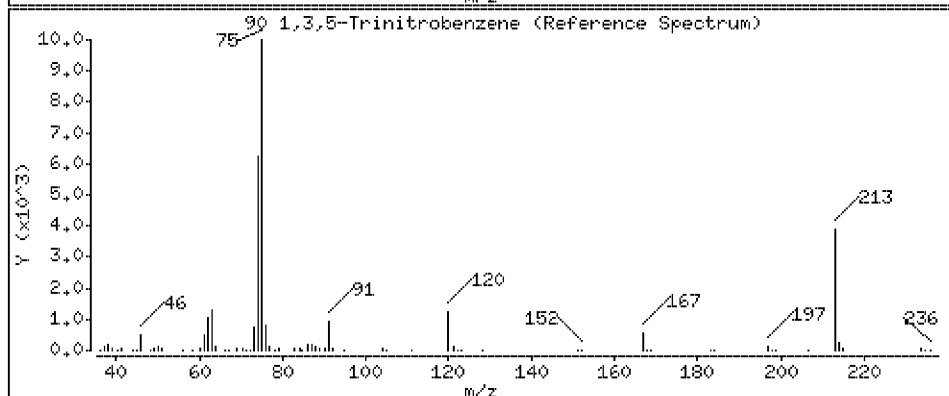
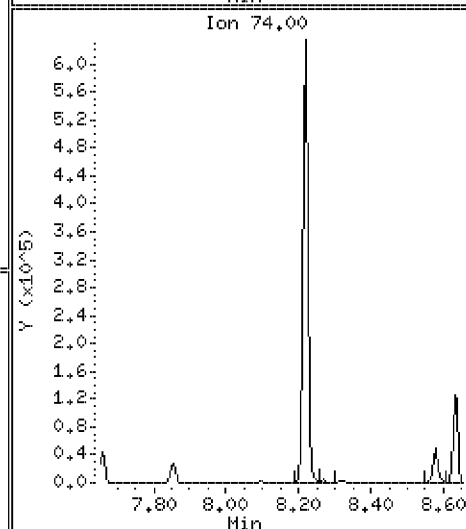
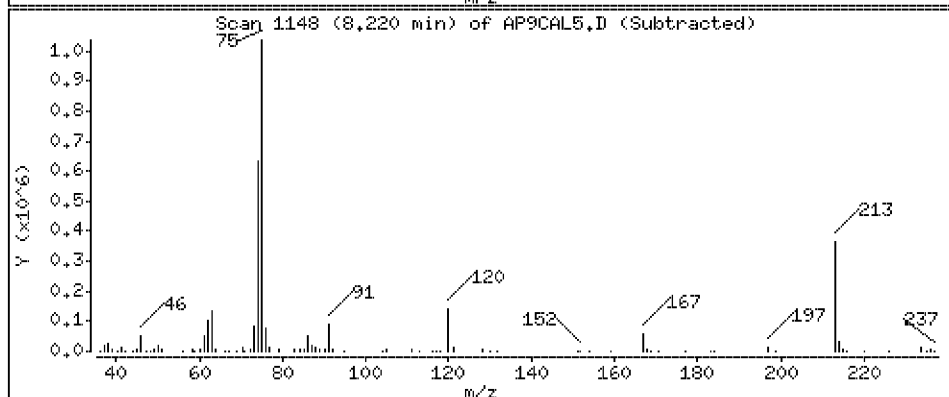
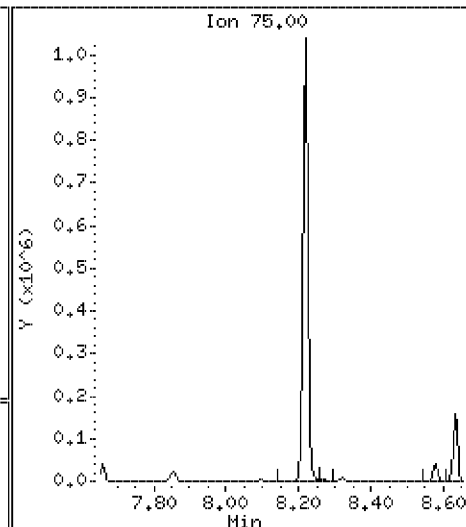
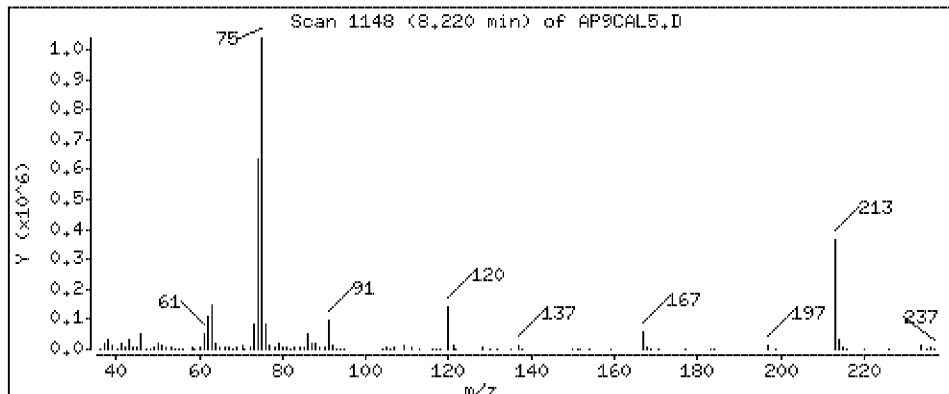
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

90 1,3,5-Trinitrobenzene

Concentration: 58.3 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

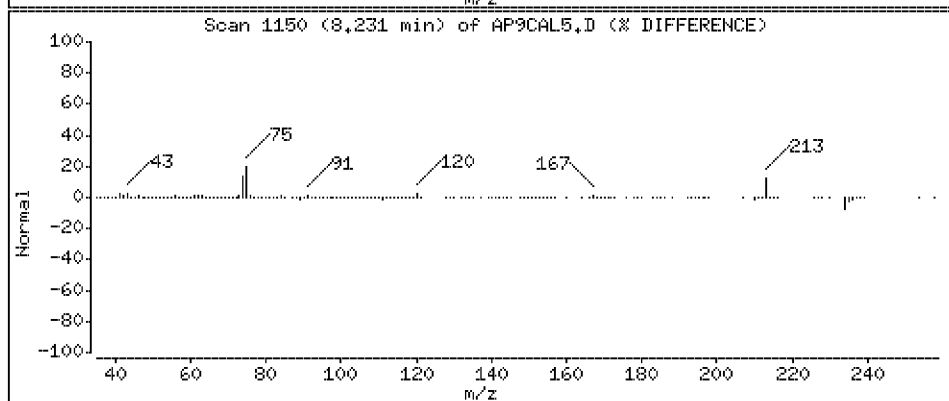
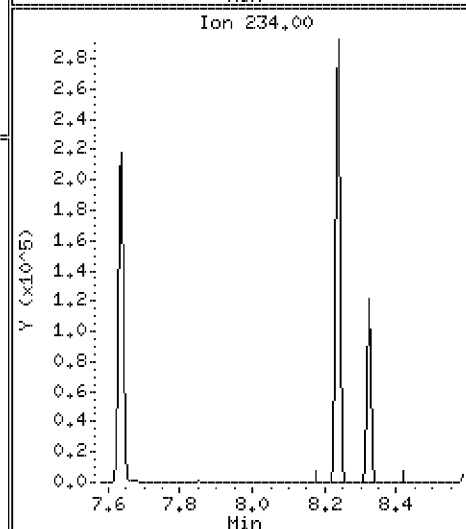
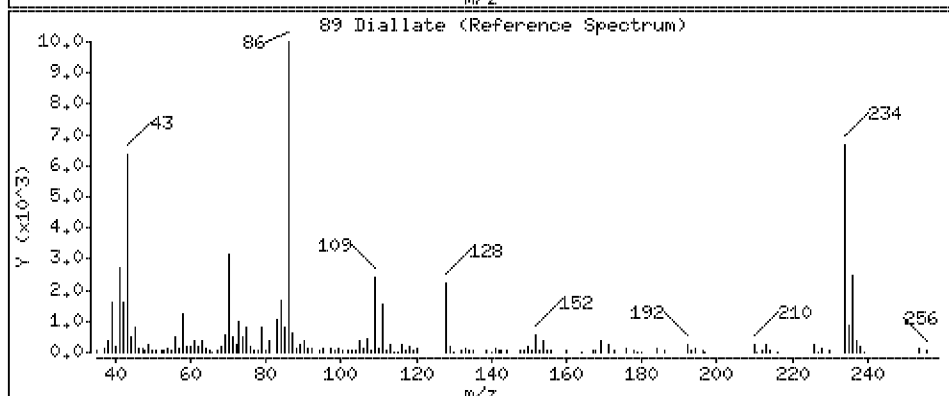
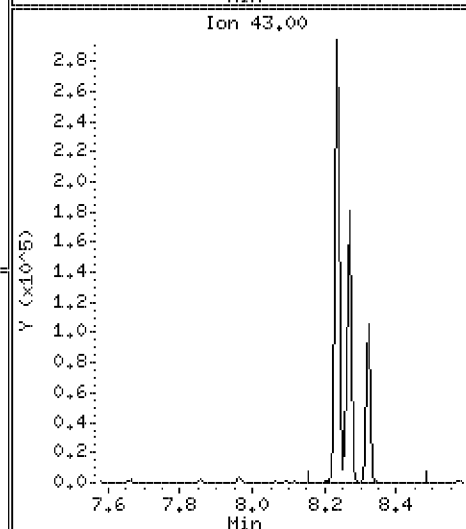
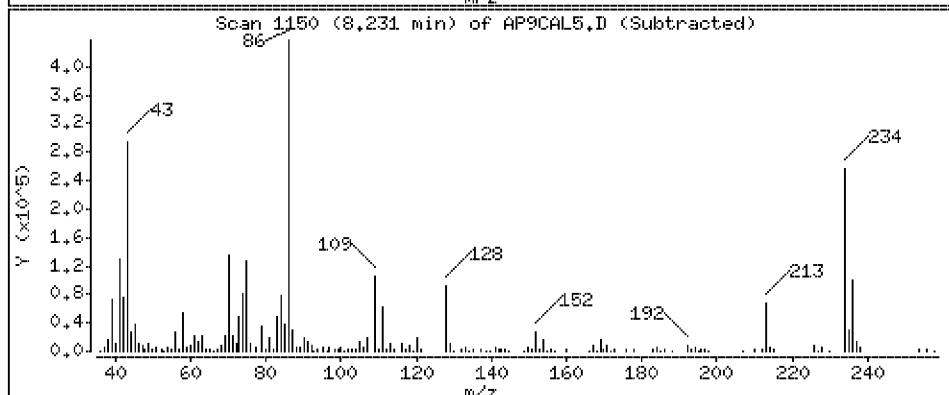
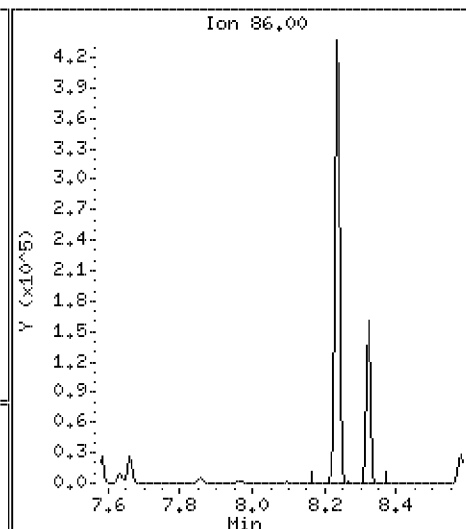
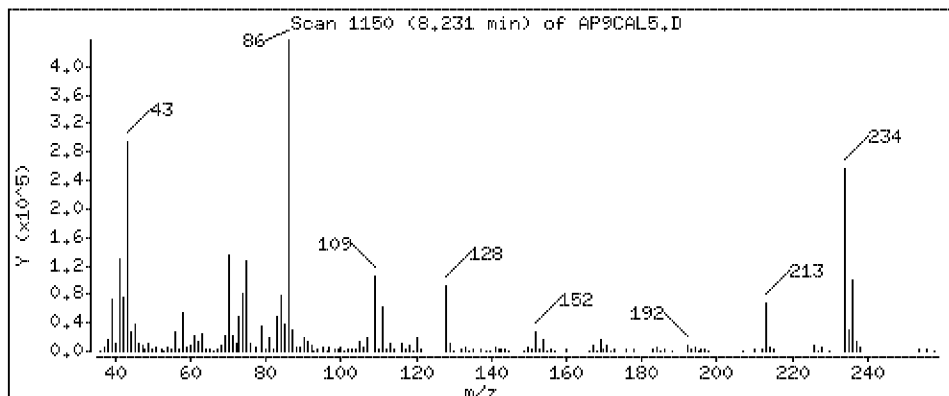
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

89 Diallate

Concentration: 62.4 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

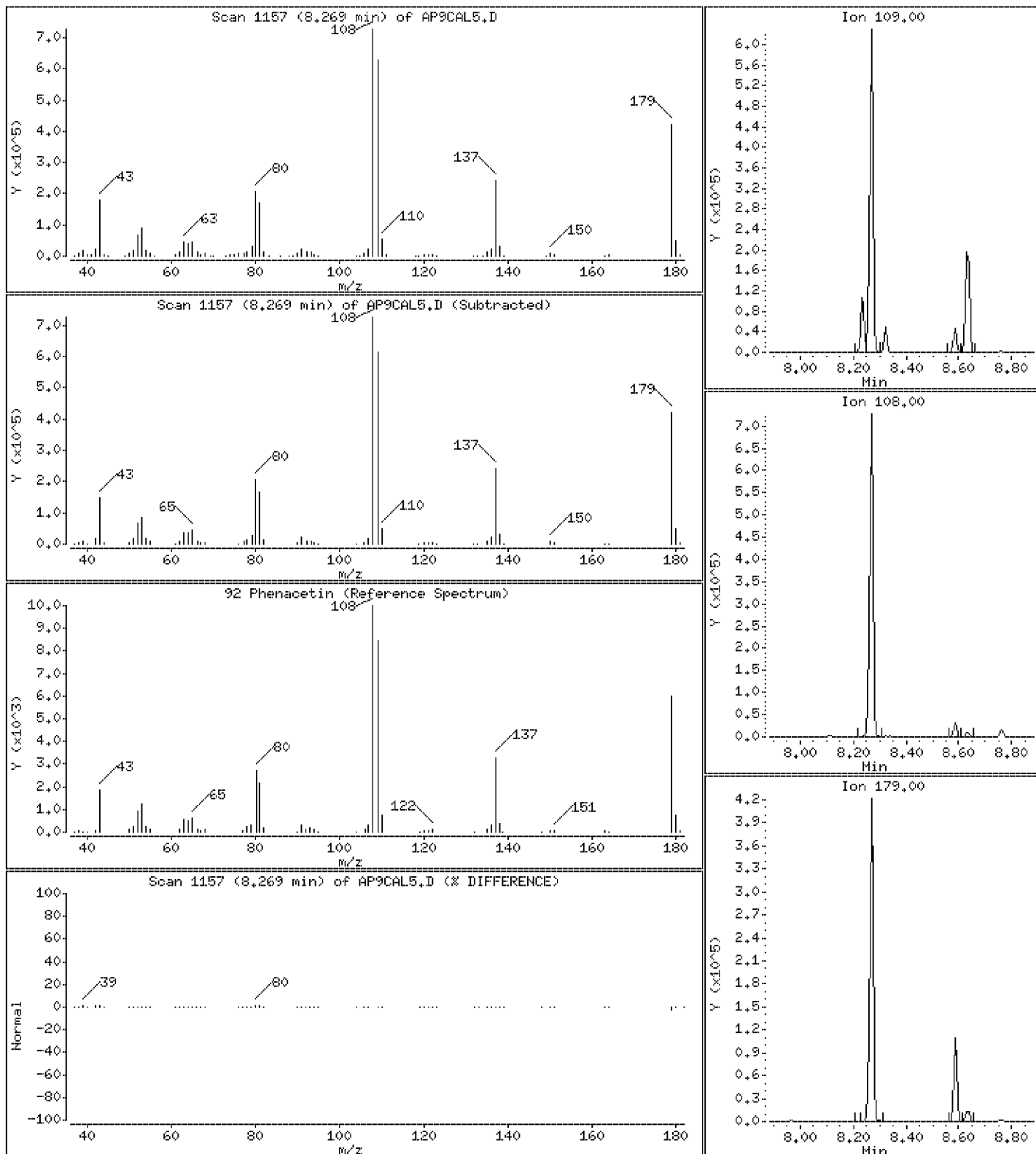
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

92 Phenacetin

Concentration: 60.0 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

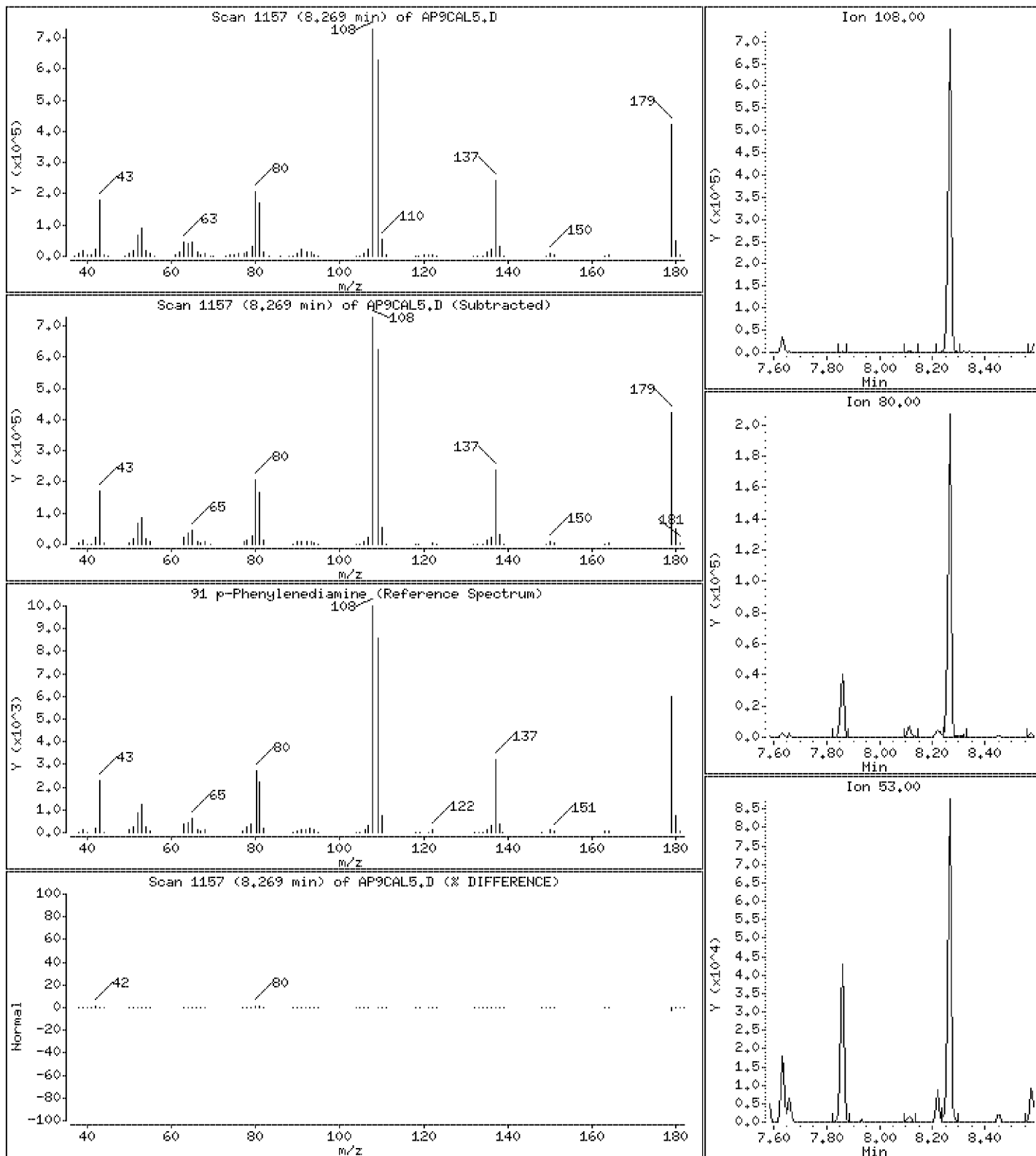
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

91 p-Phenylenediamine

Concentration: 64.4 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

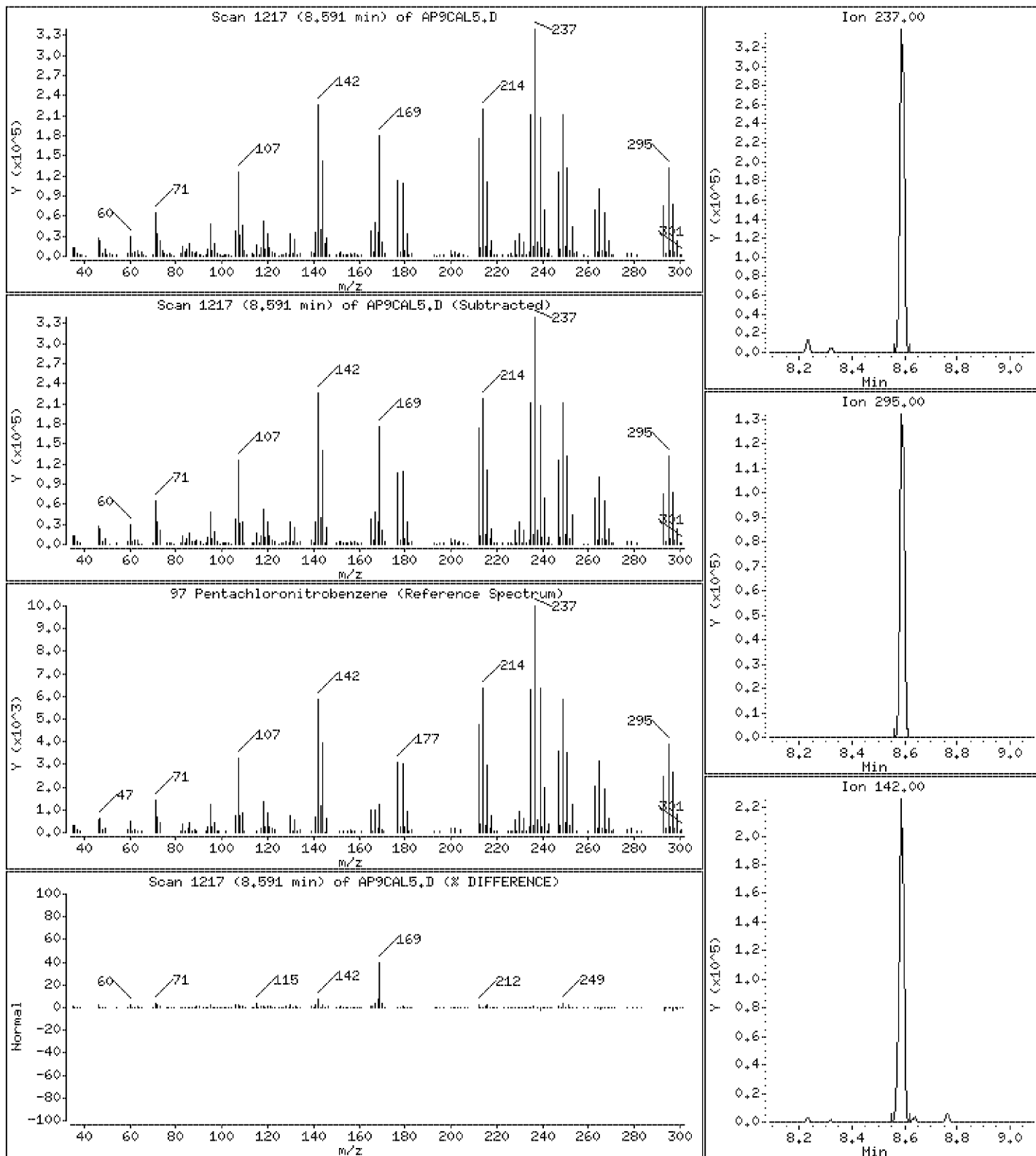
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

97 Pentachloronitrobenzene

Concentration: 63.9 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

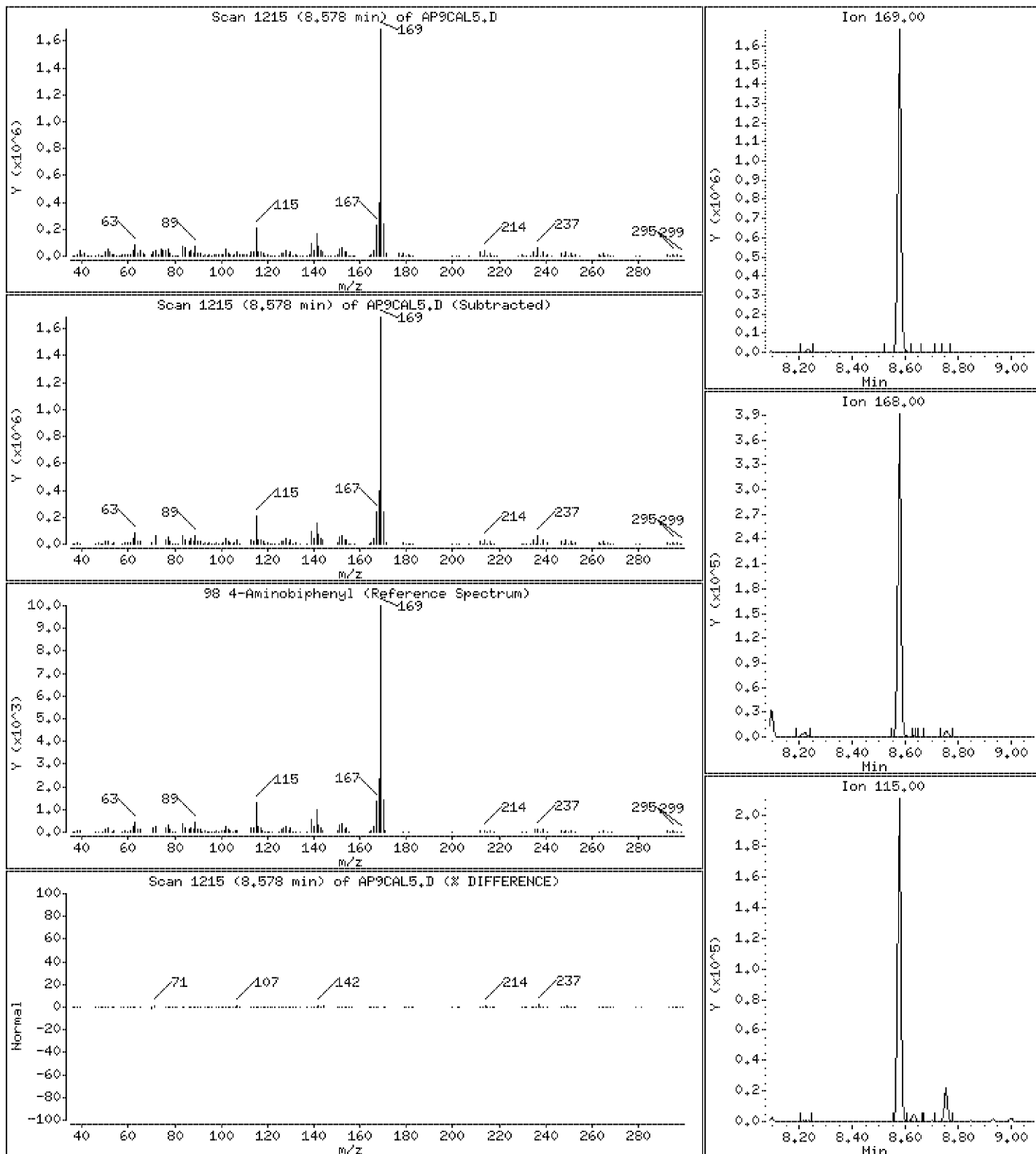
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

98 4-Aminobiphenyl

Concentration: 61.9 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

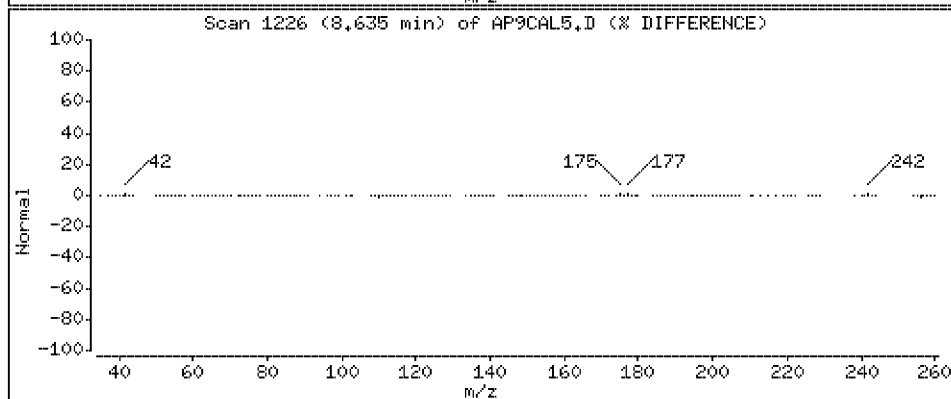
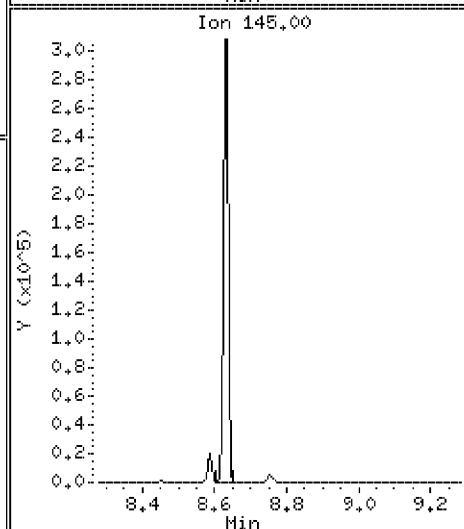
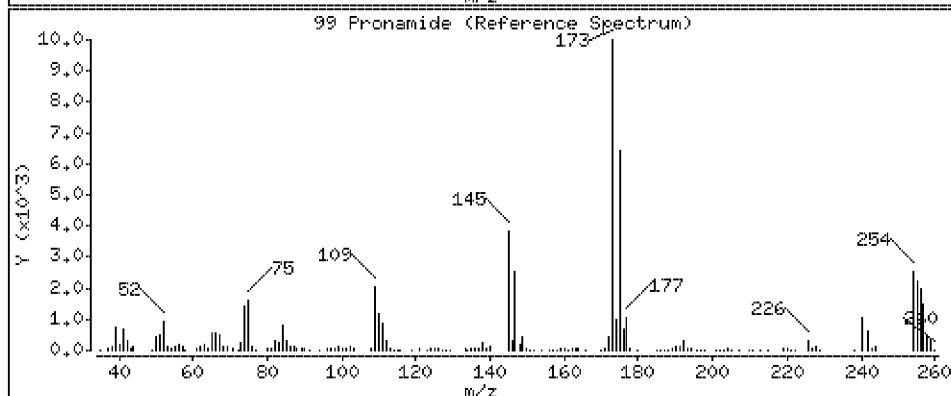
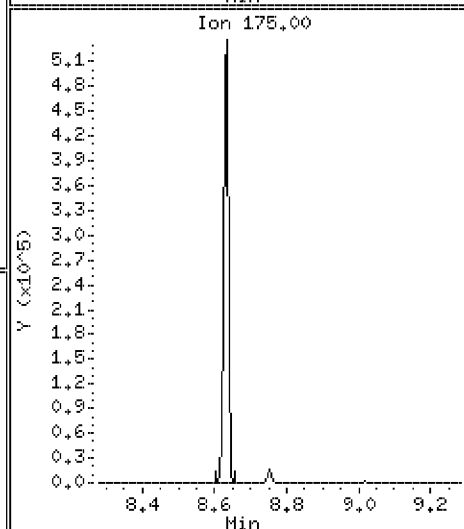
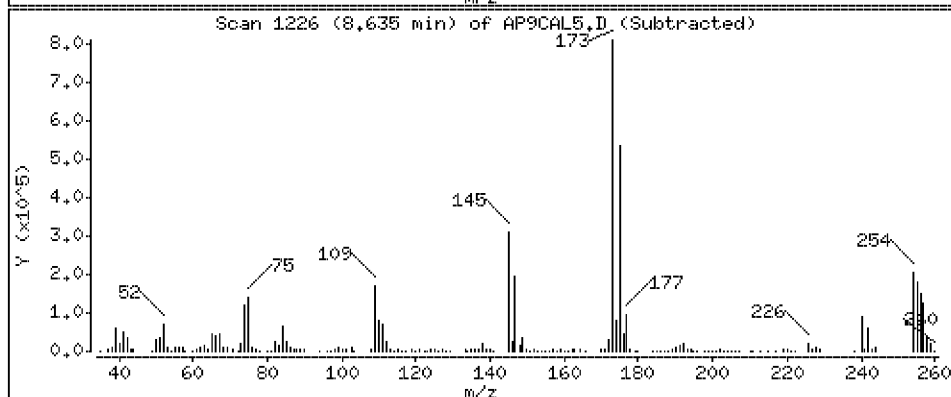
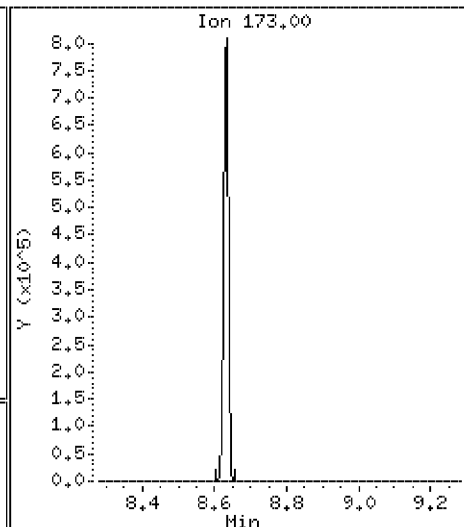
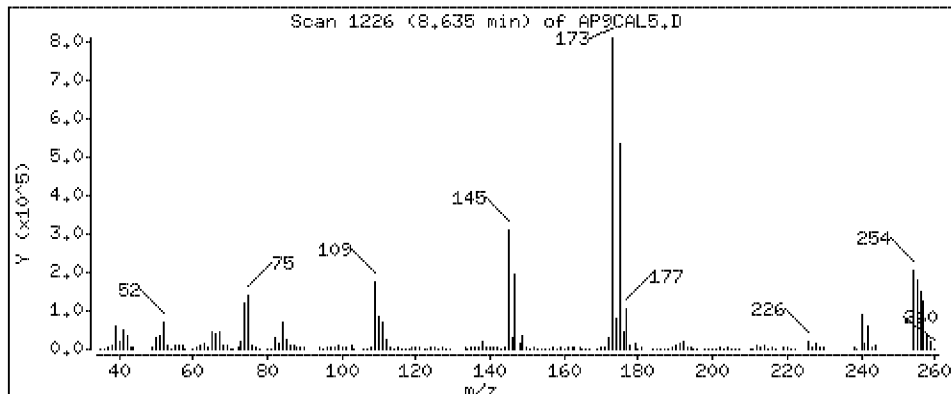
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

99 Pronamide

Concentration: 63.1 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

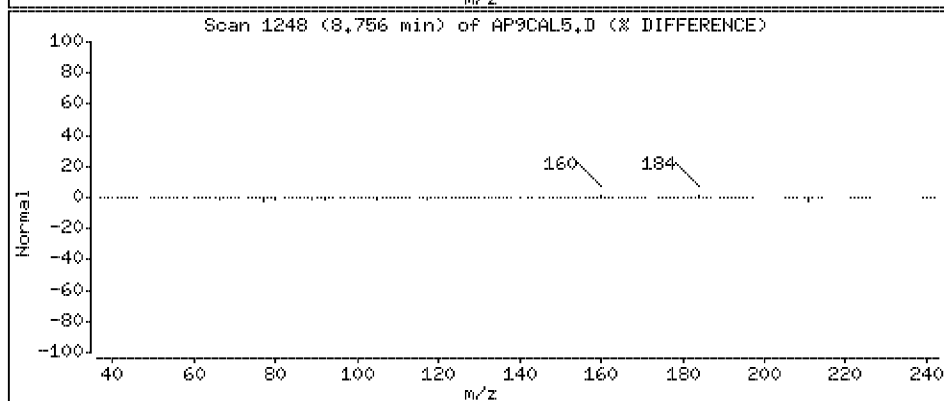
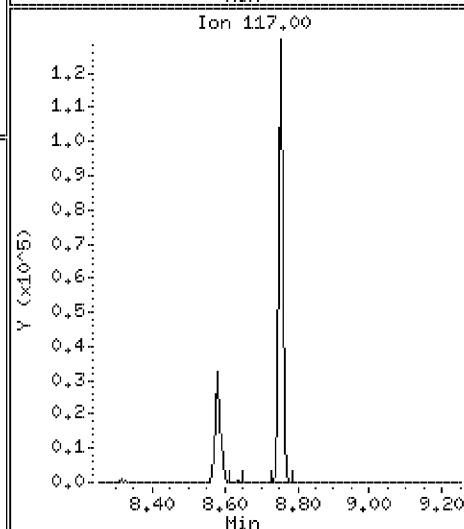
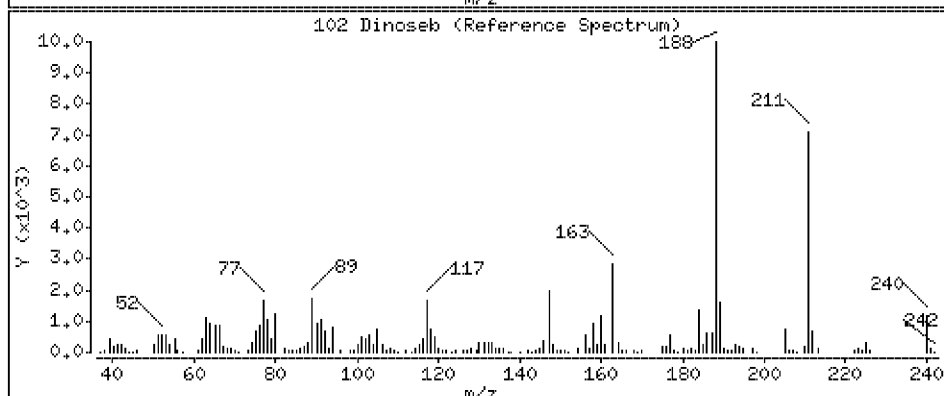
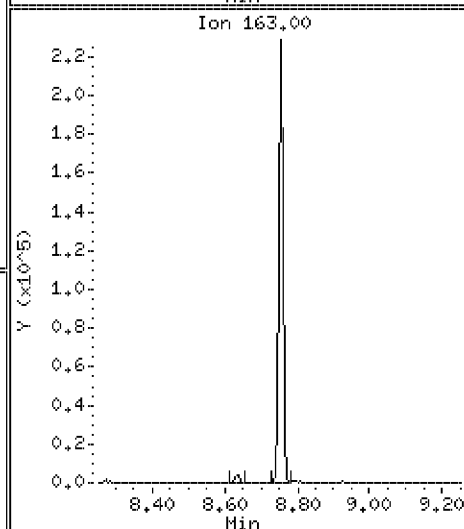
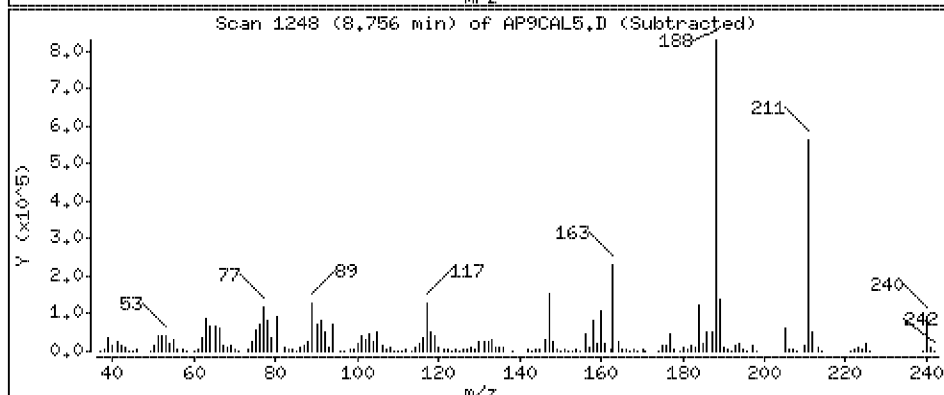
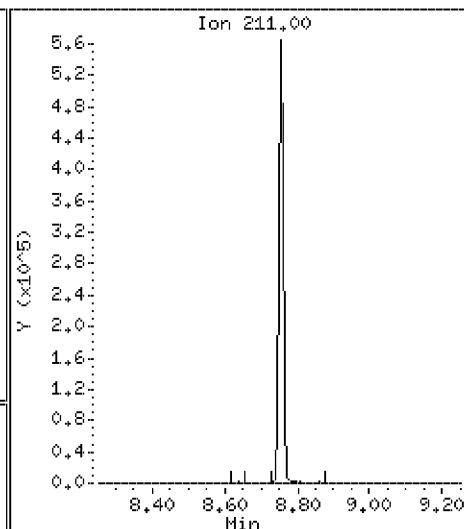
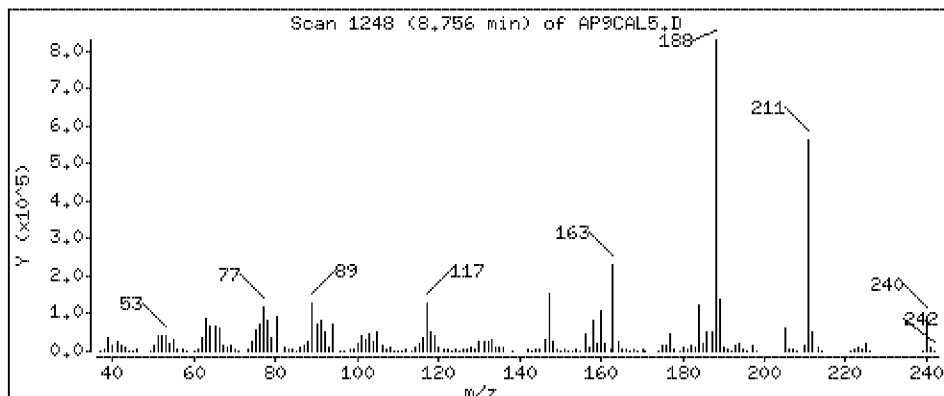
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

102 Dinoseb

Concentration: 59.8 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

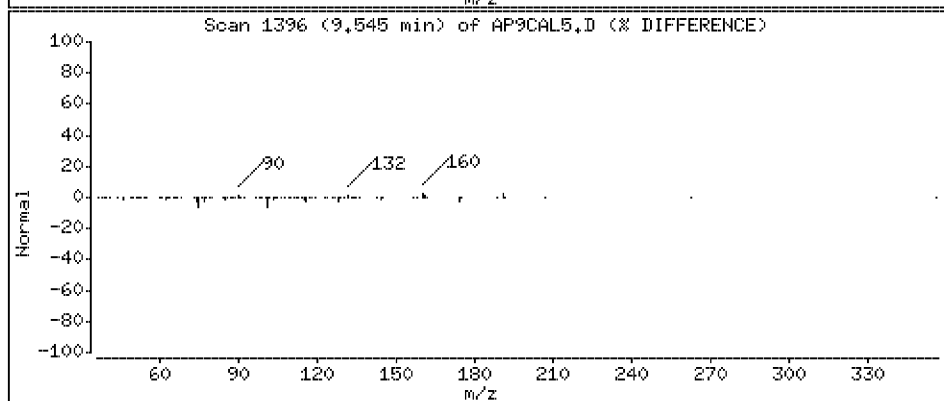
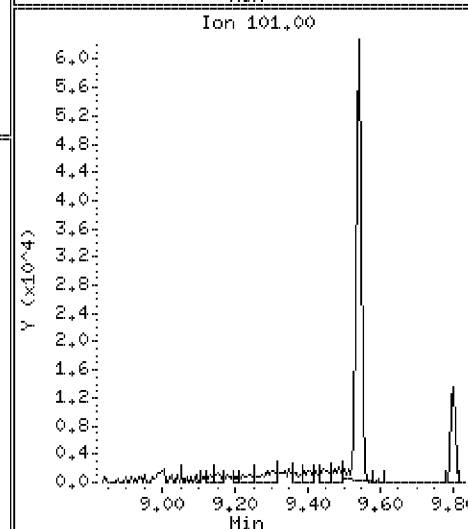
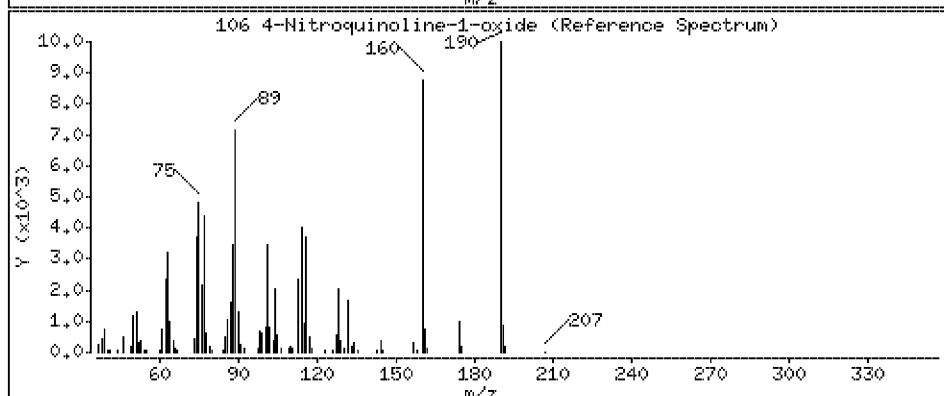
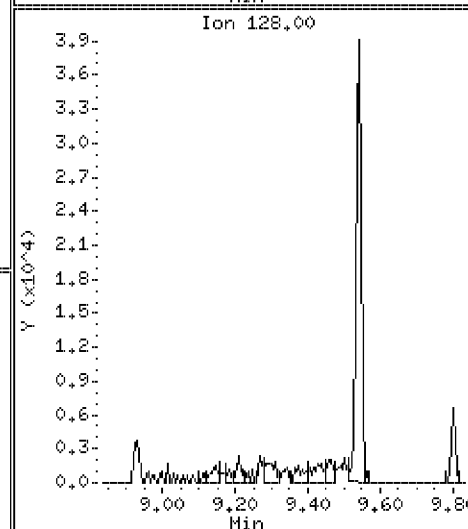
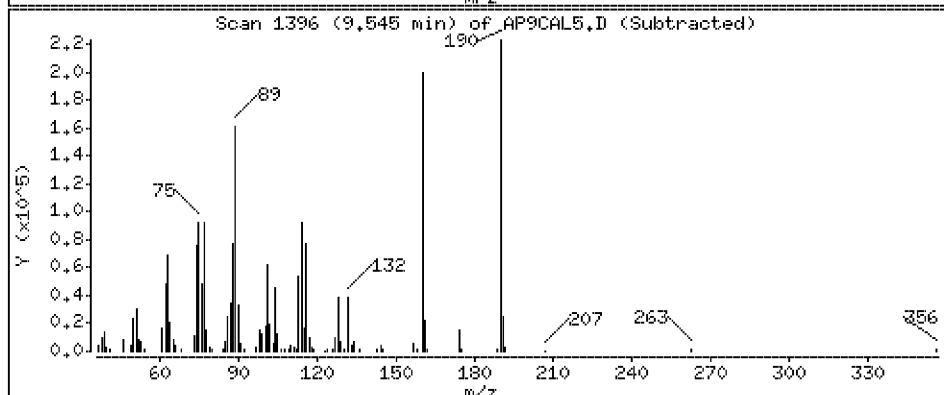
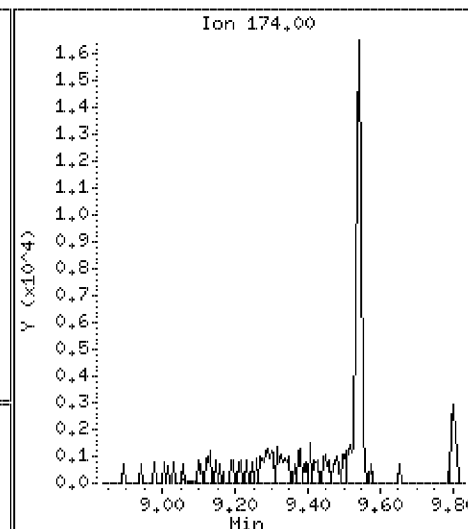
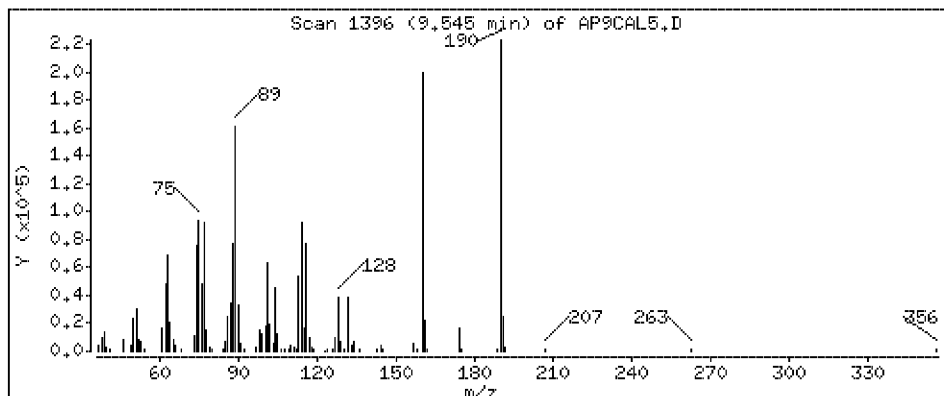
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

106 4-Nitroquinoline-1-oxide

Concentration: 58.1 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

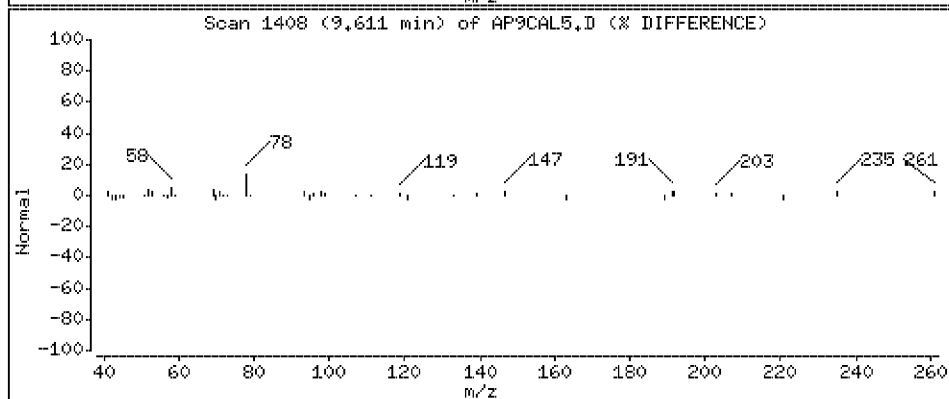
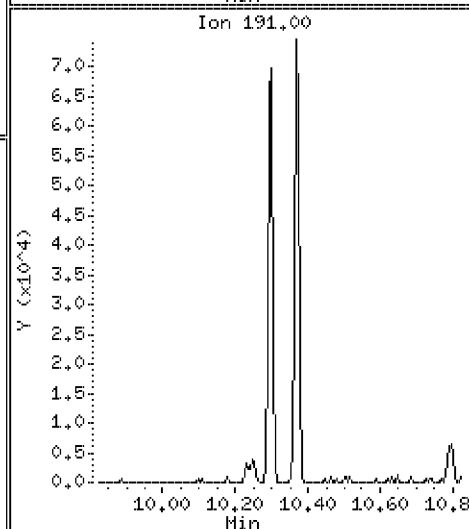
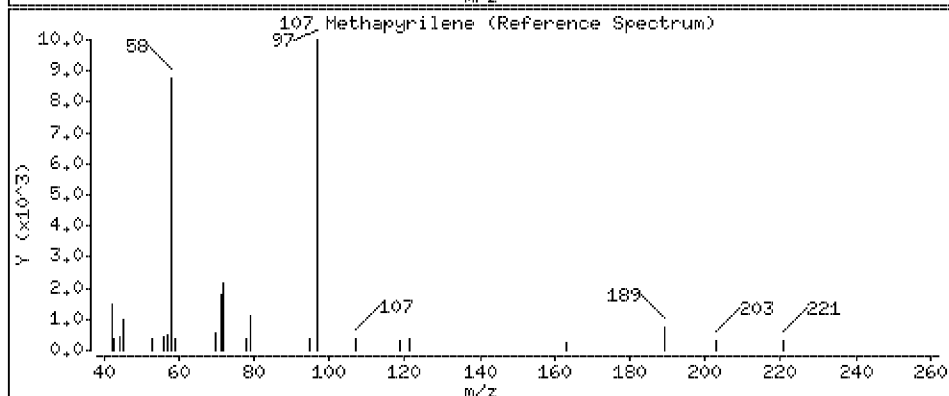
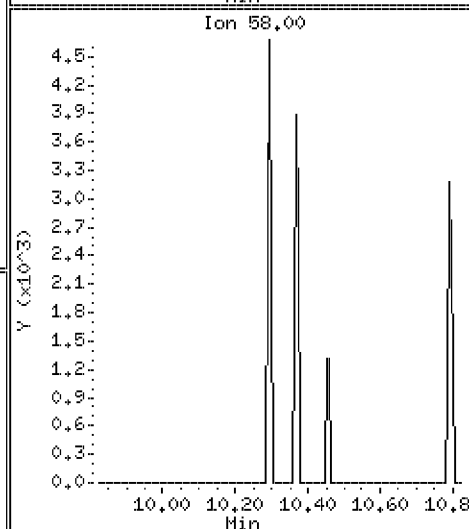
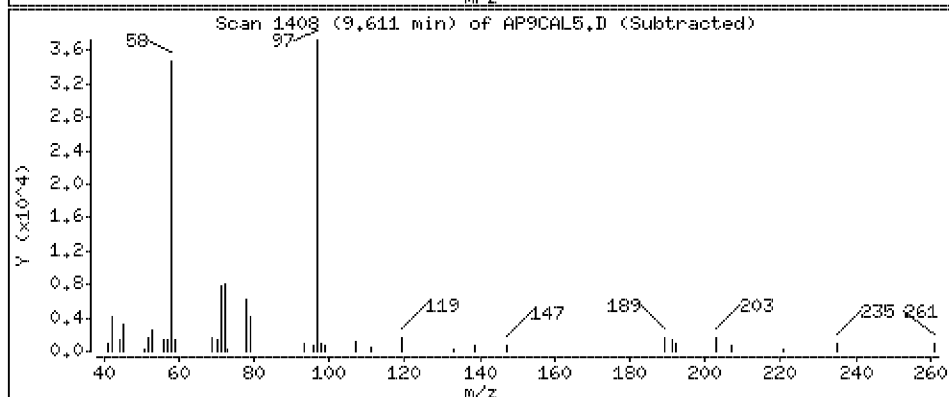
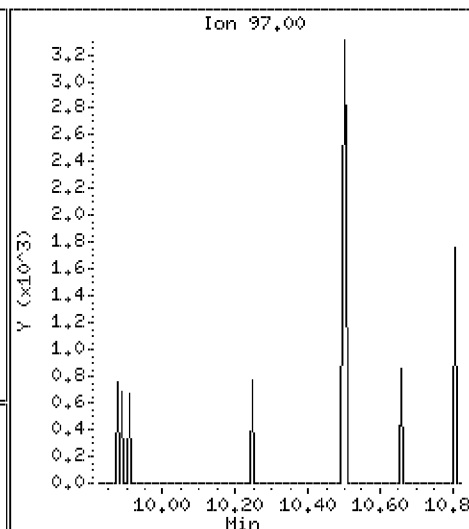
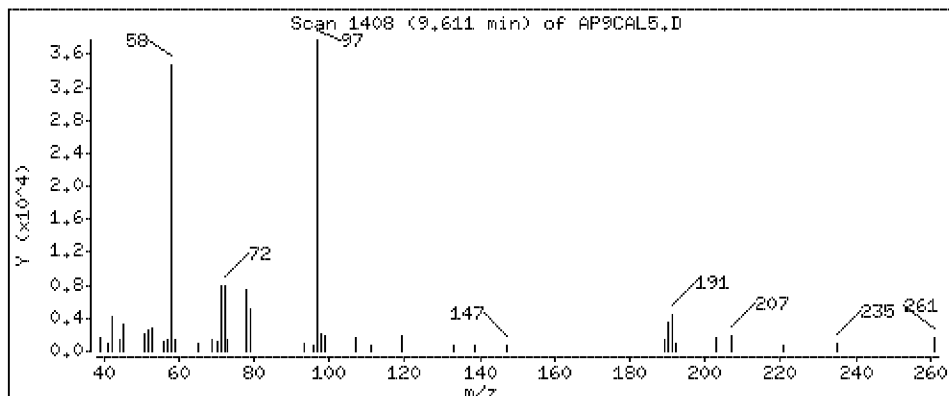
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

107 Methapyrilene

Concentration: 64.8 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

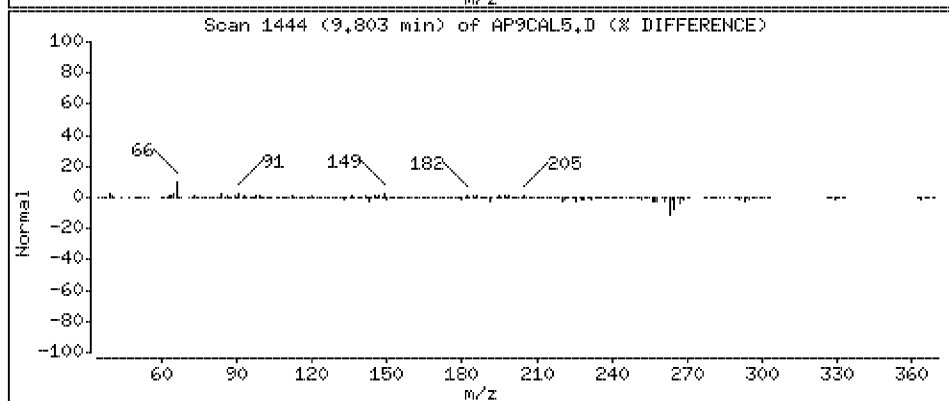
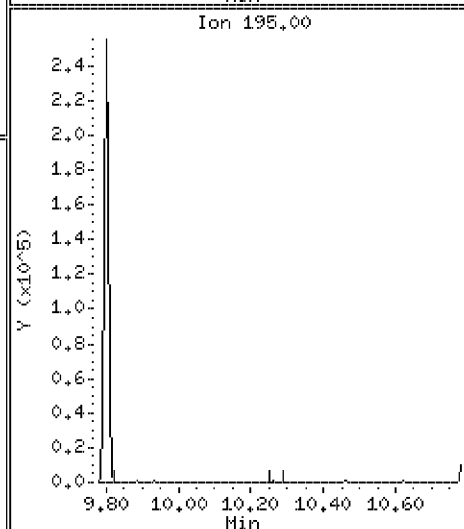
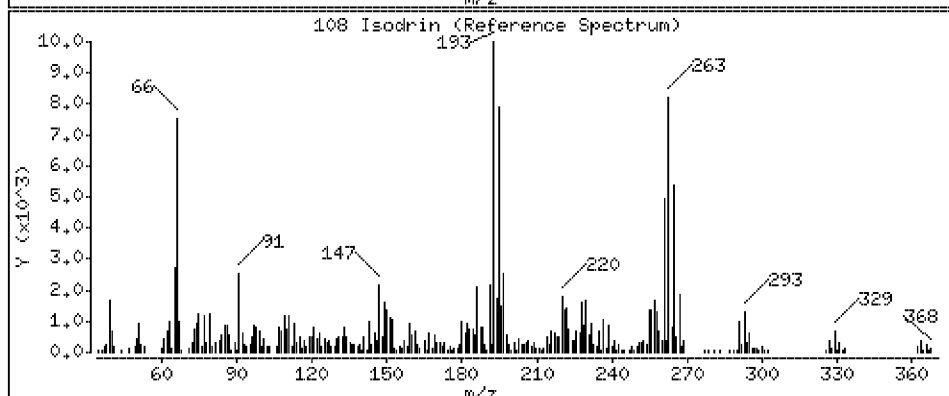
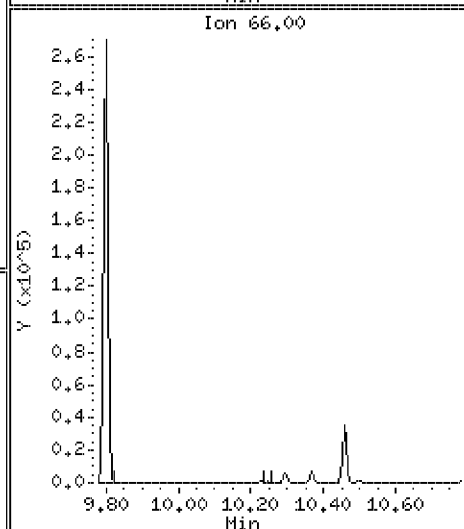
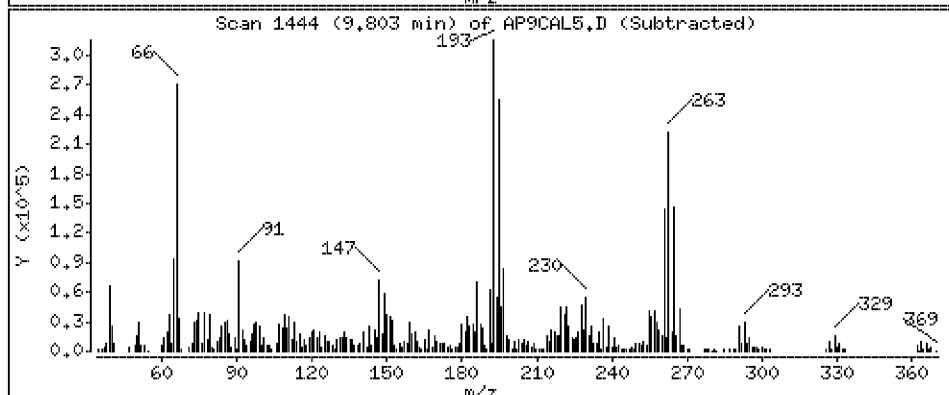
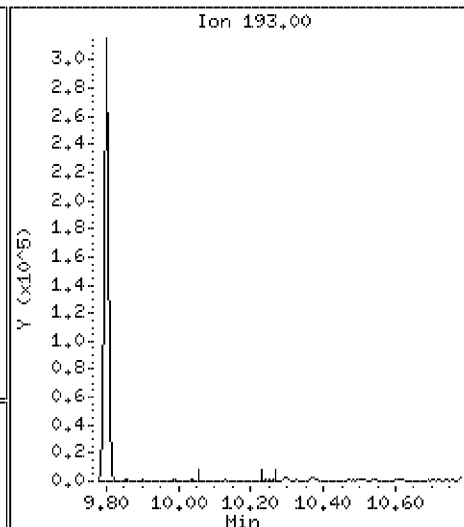
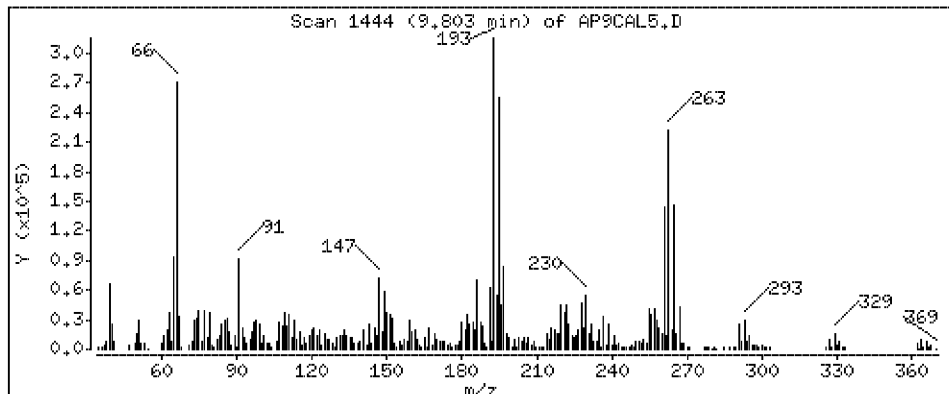
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

108 Isodrin

Concentration: 60.8 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

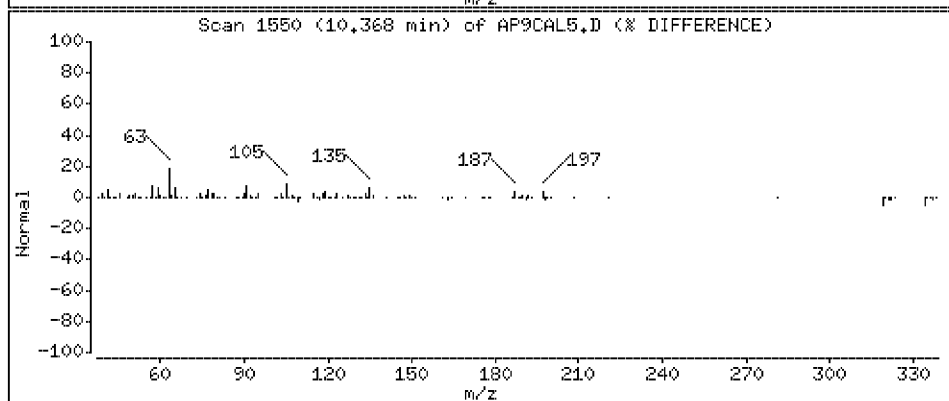
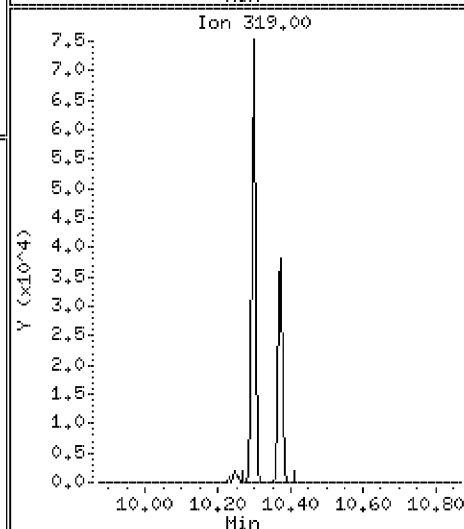
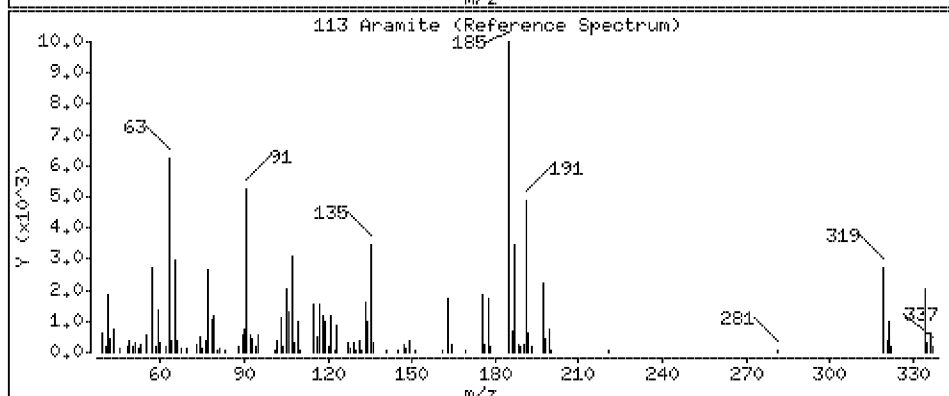
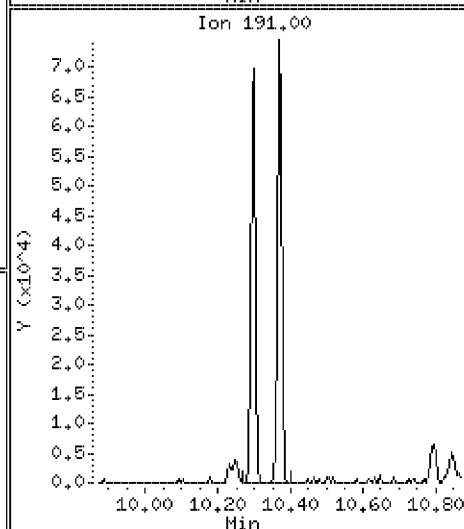
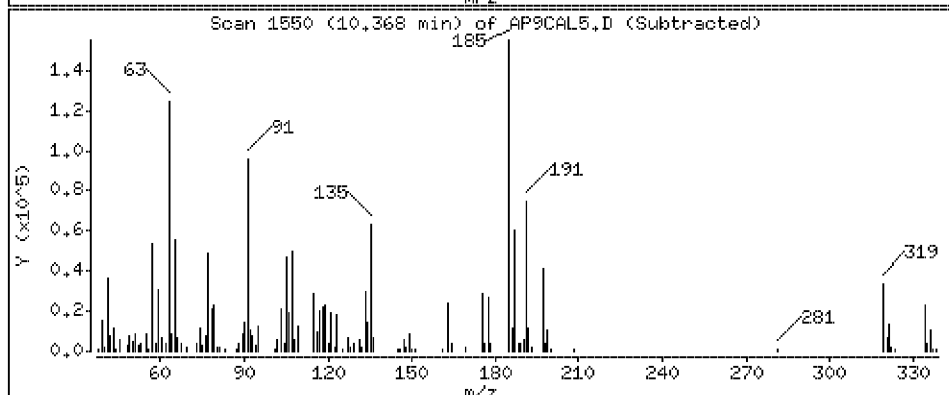
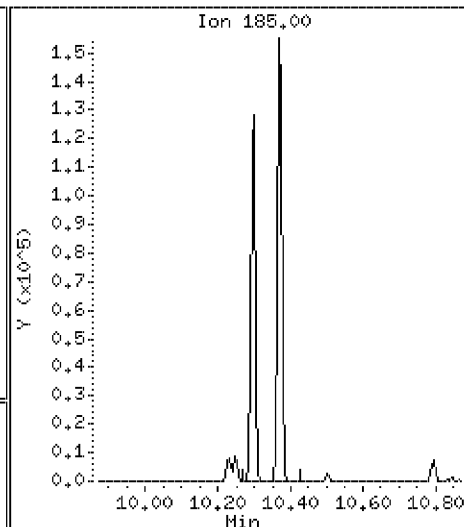
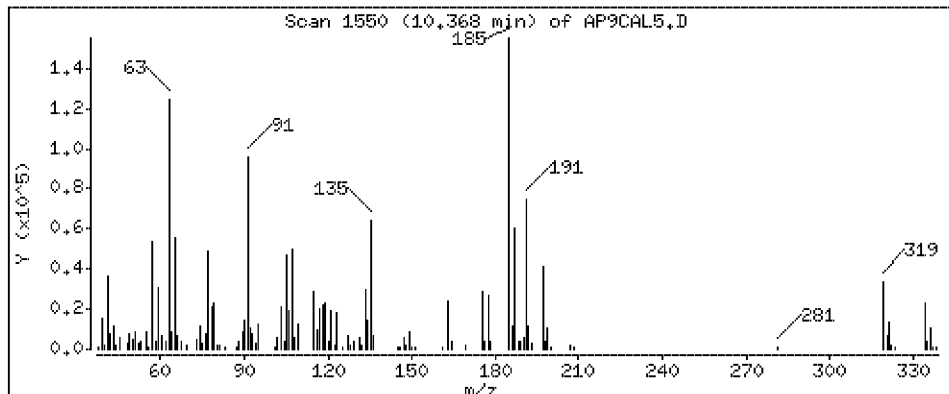
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

113 Aramite

Concentration: 62.1 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

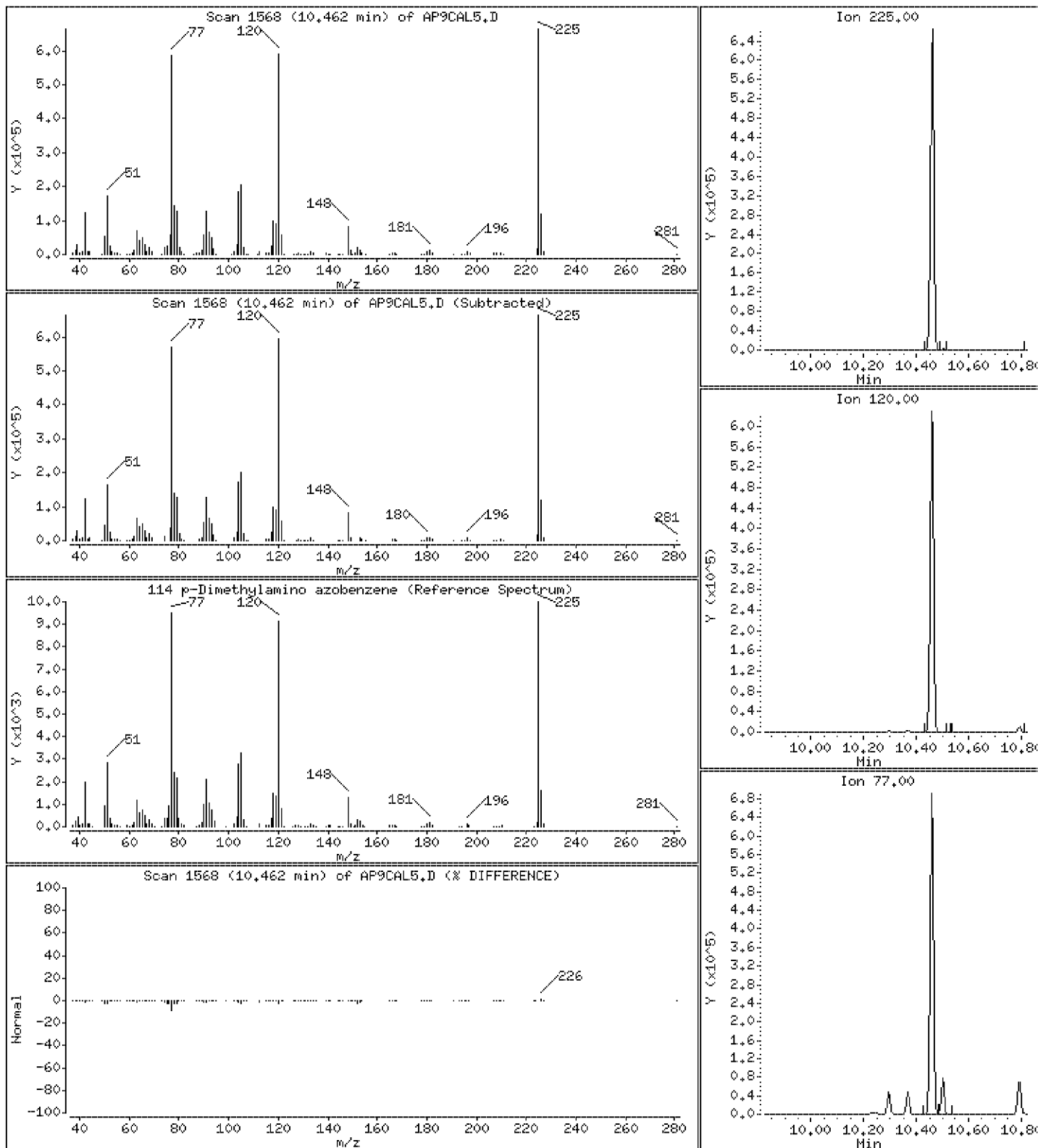
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

114 p-Dimethylamino azobenzene

Concentration: 63.2 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

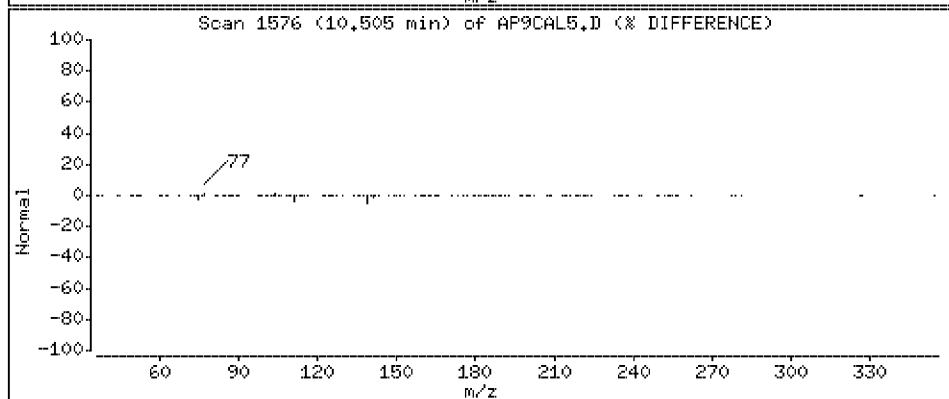
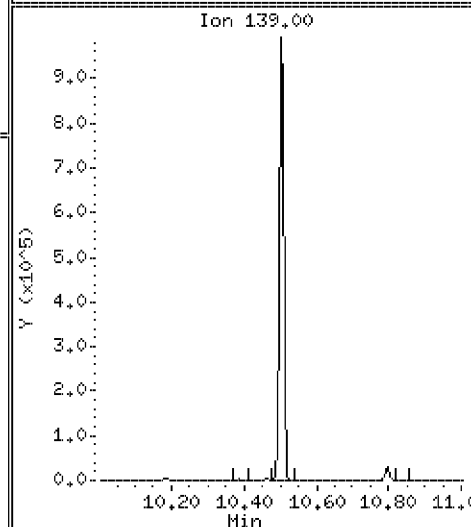
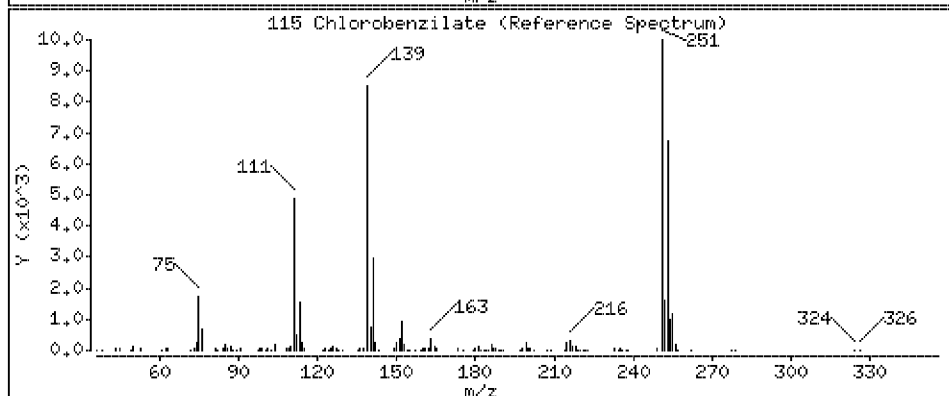
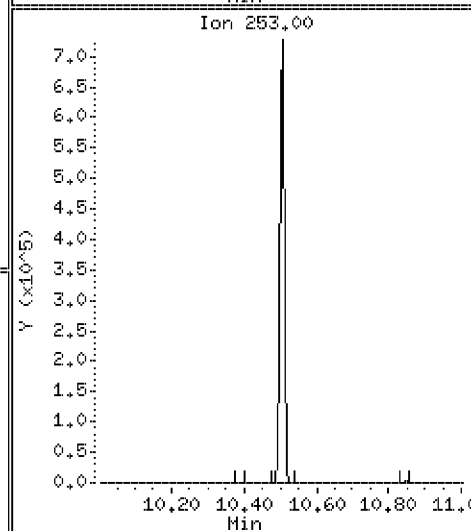
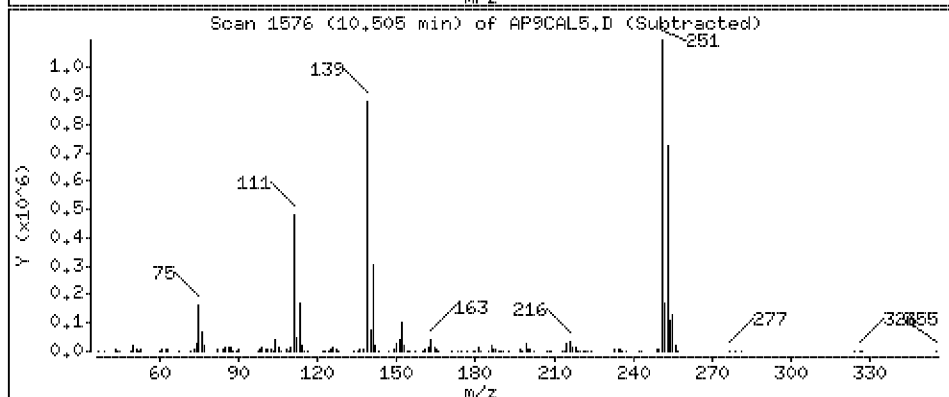
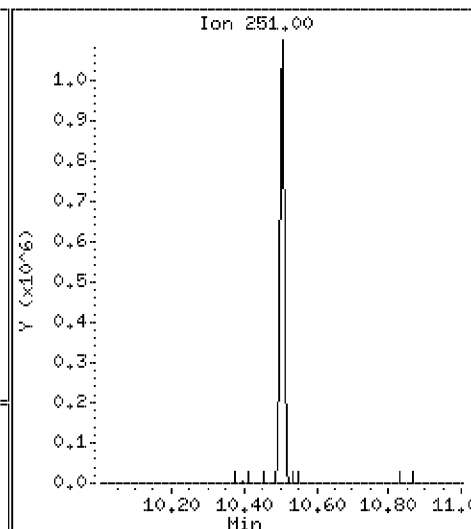
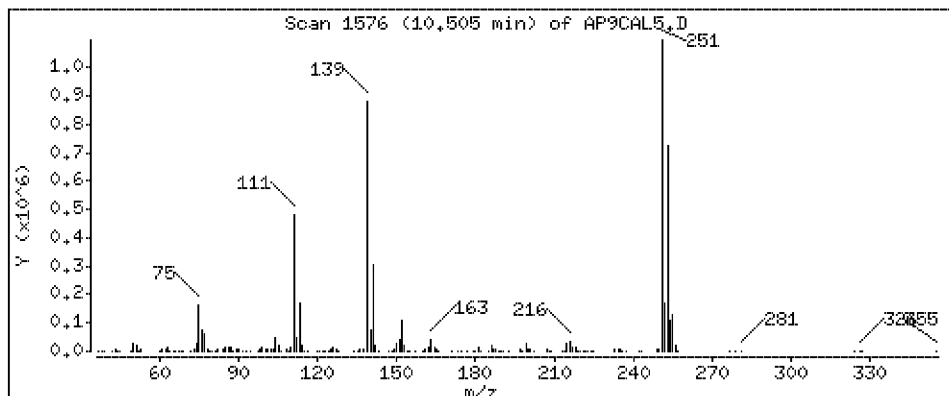
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

115 Chlorobenzilate

Concentration: 63.4 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

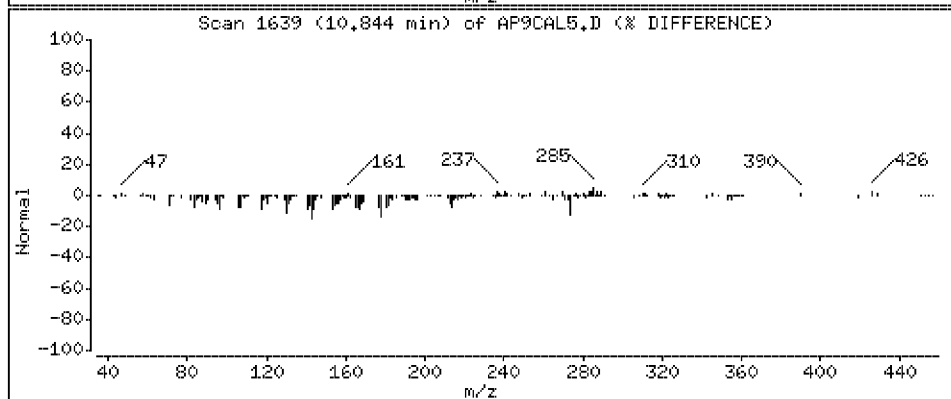
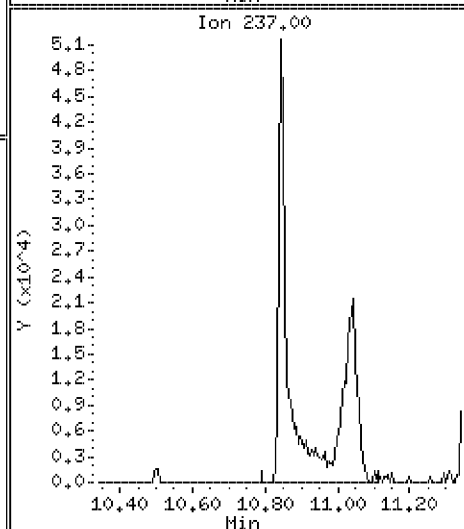
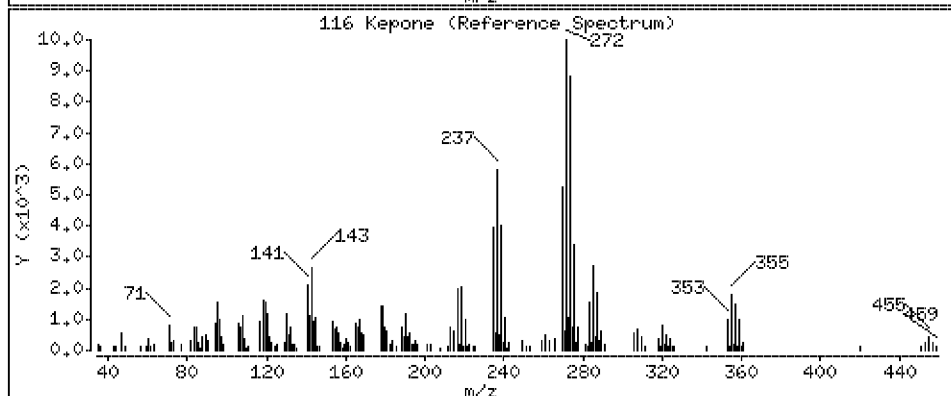
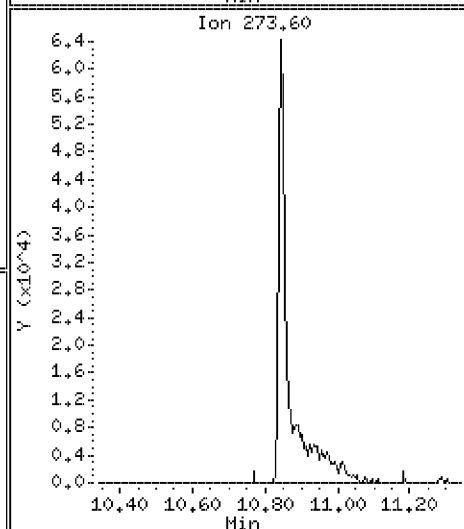
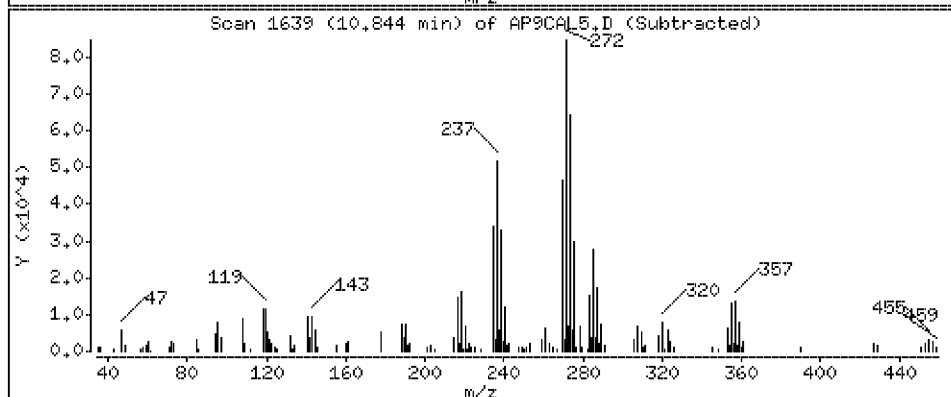
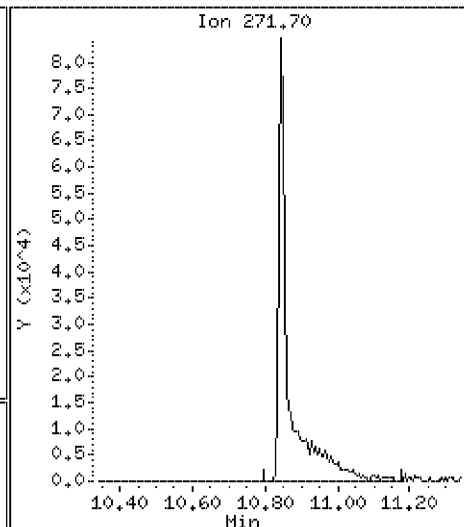
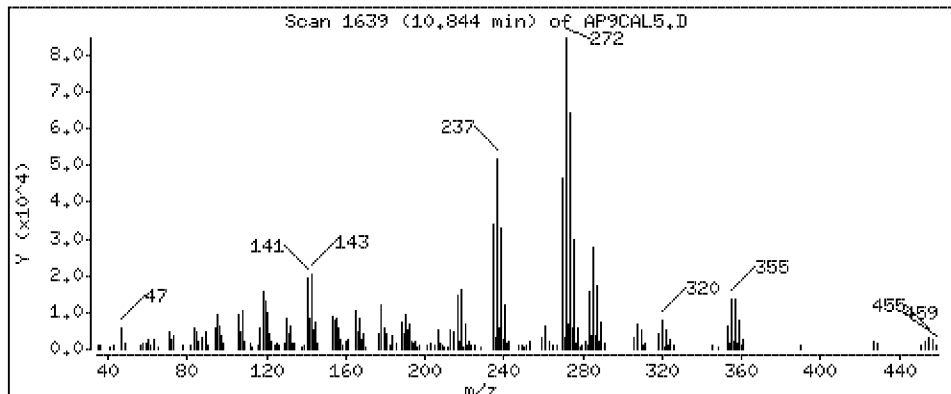
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

116 Kepone

Concentration: 64.1 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

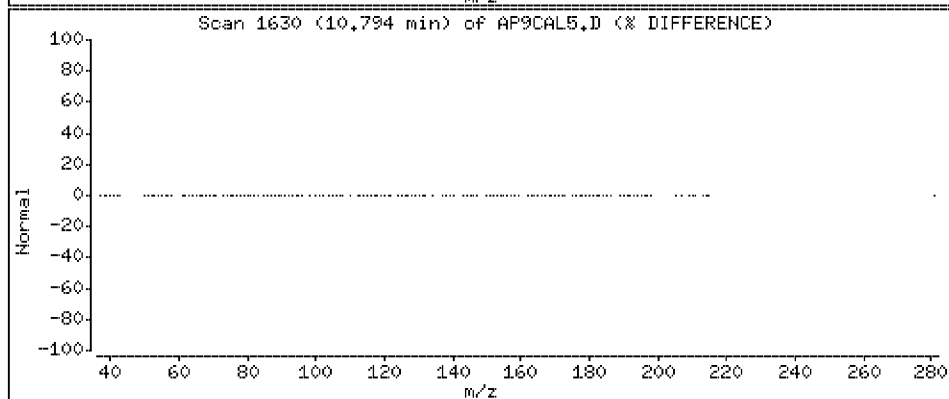
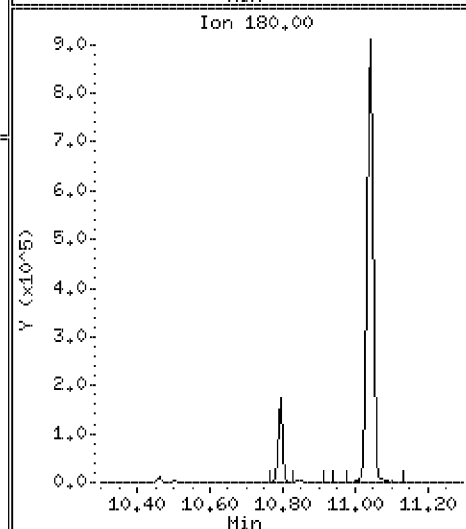
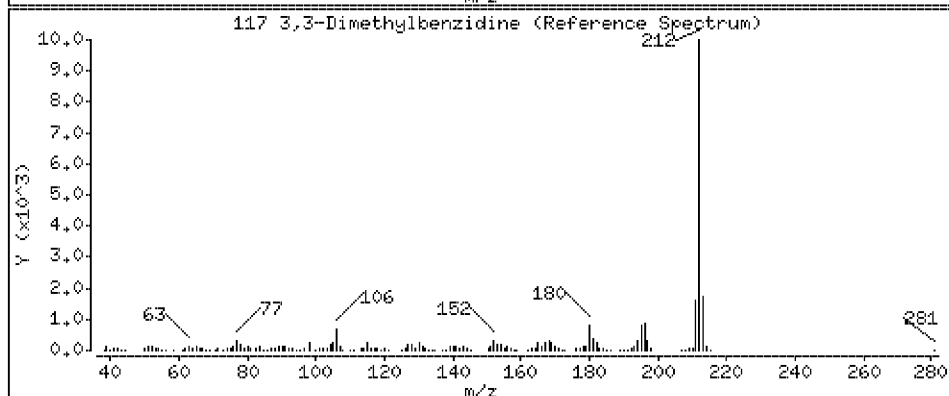
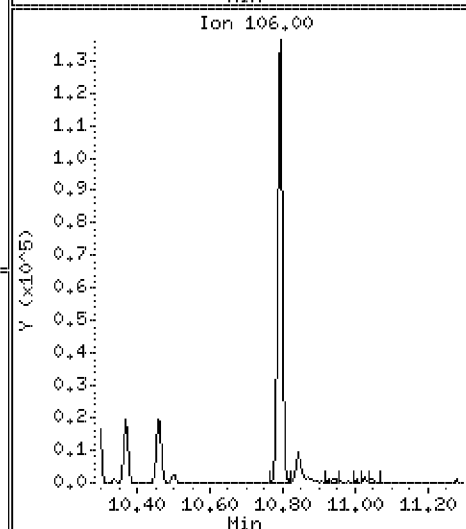
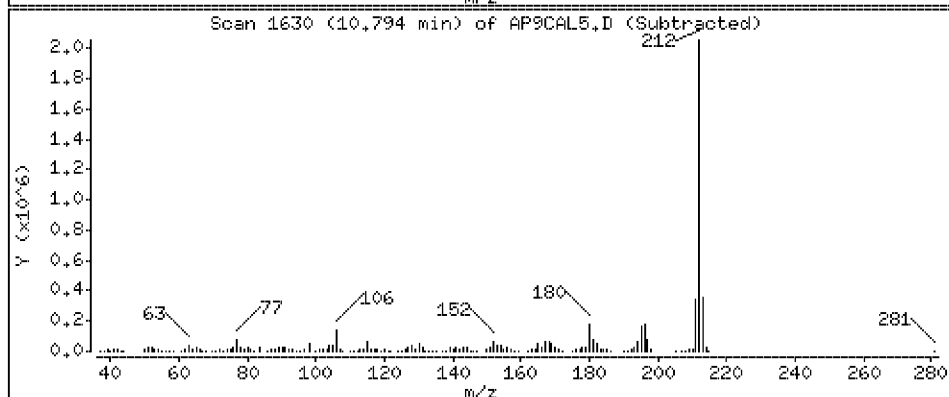
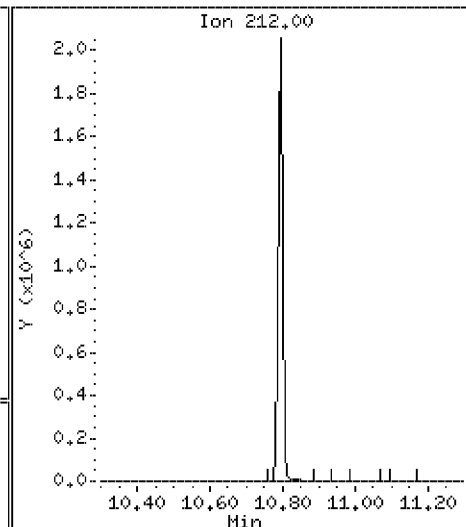
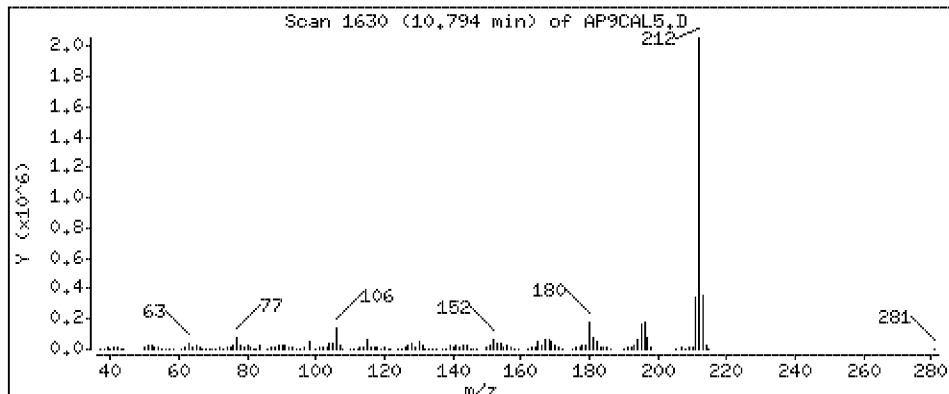
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

117 3,3-Dimethylbenzidine

Concentration: 63.1 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

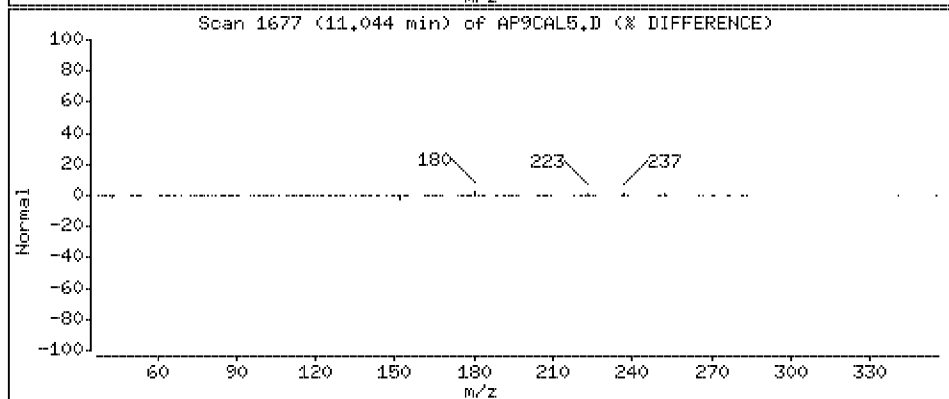
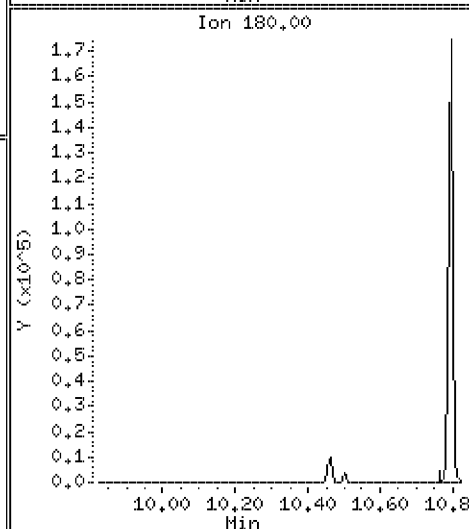
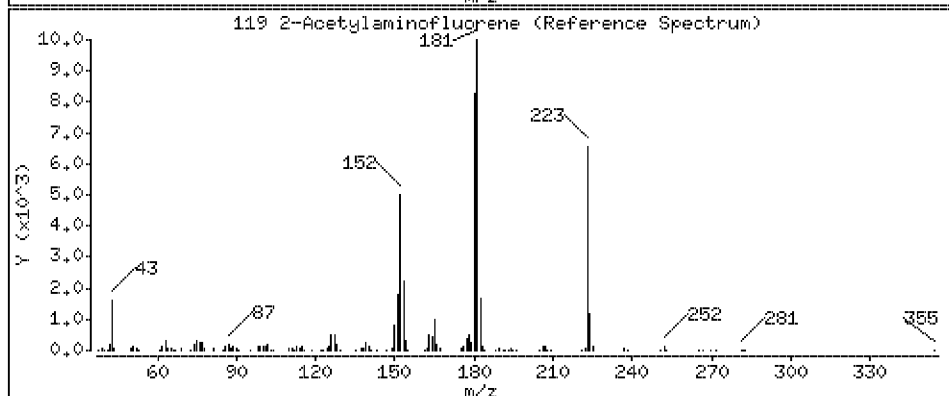
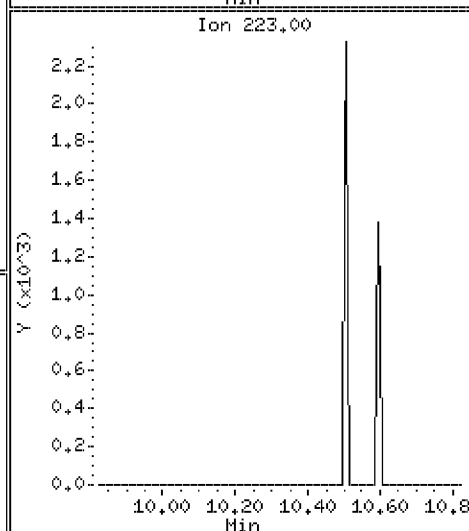
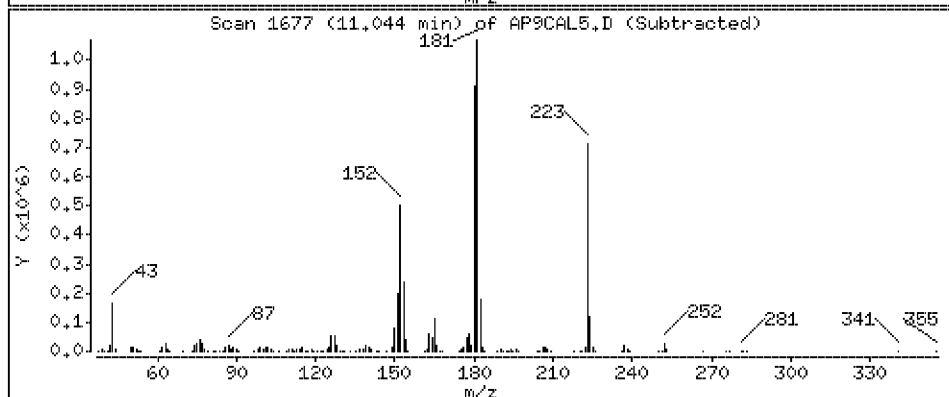
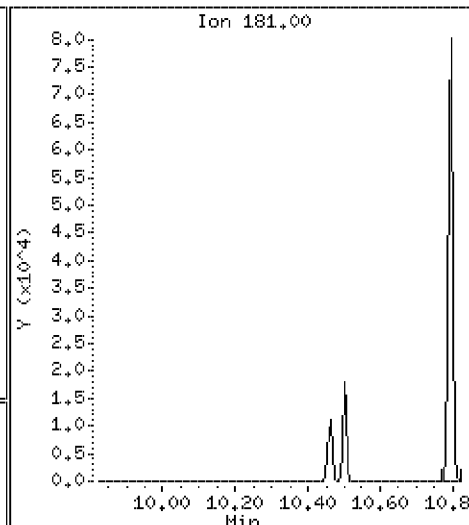
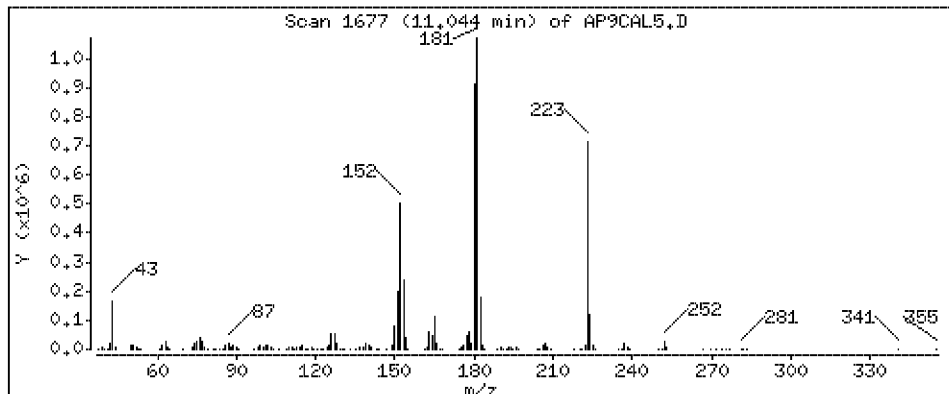
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

119 2-Acetylaminofluorene

Concentration: 64.2 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

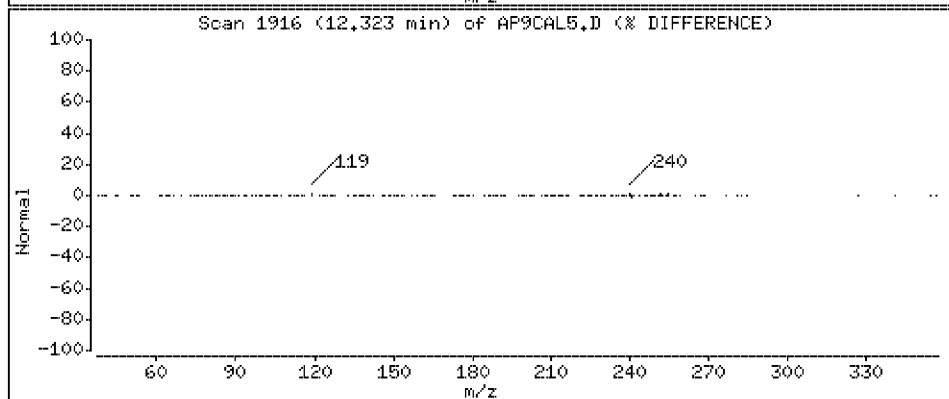
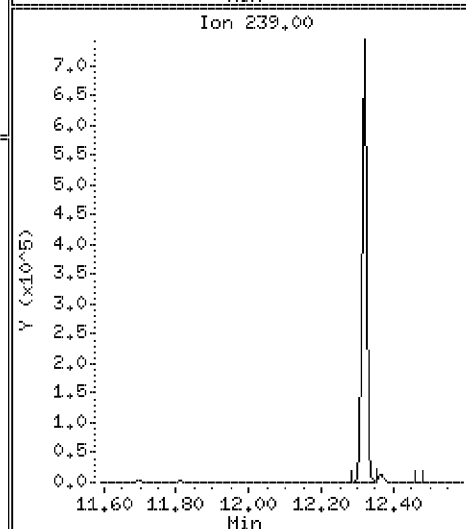
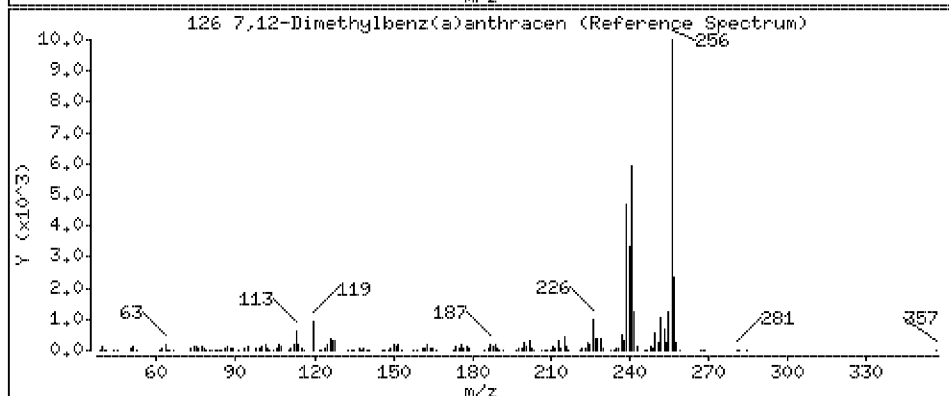
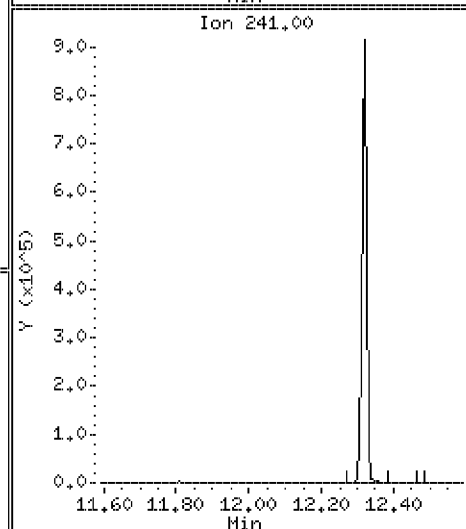
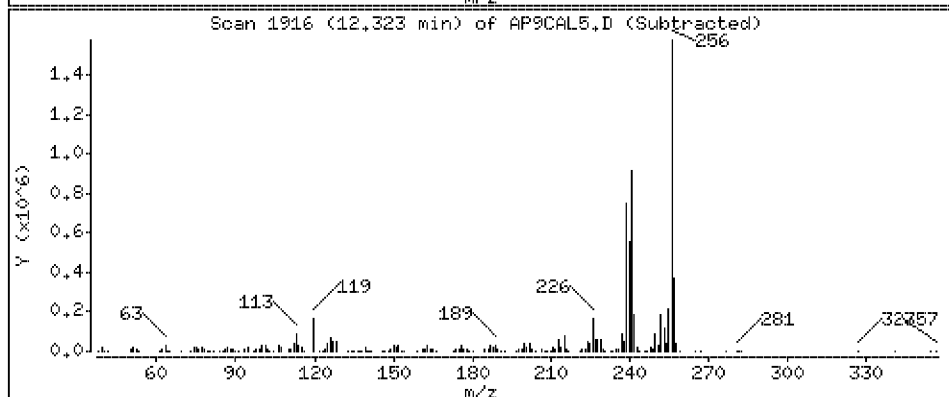
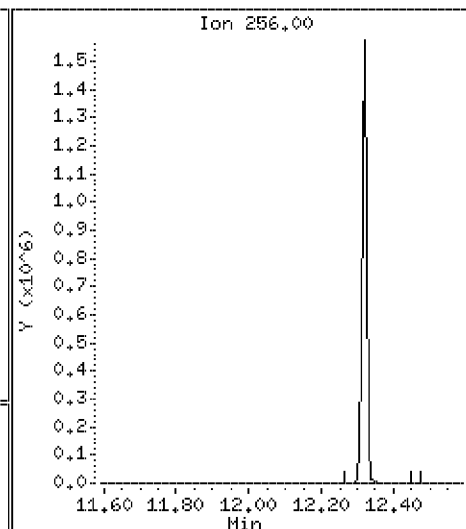
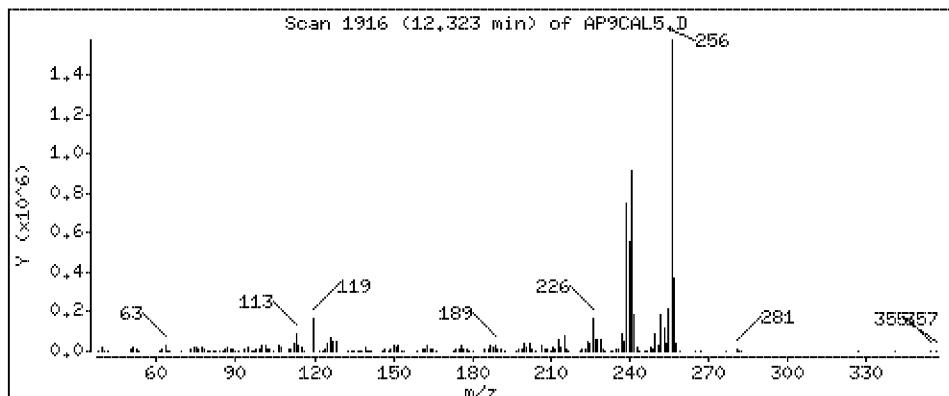
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

126 7,12-Dimethylbenz(a)anthracen

Concentration: 63.5 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

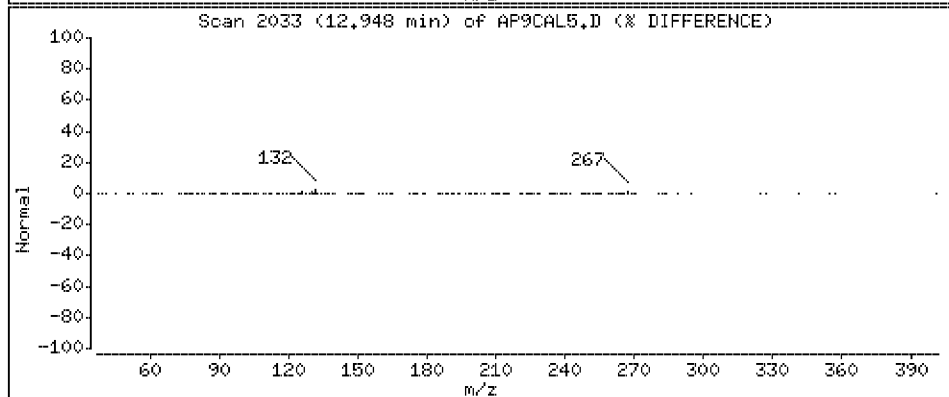
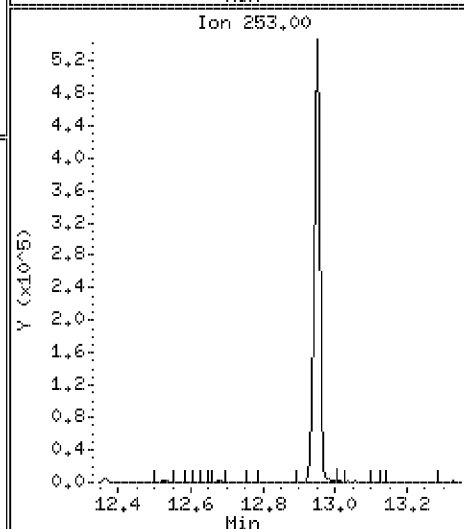
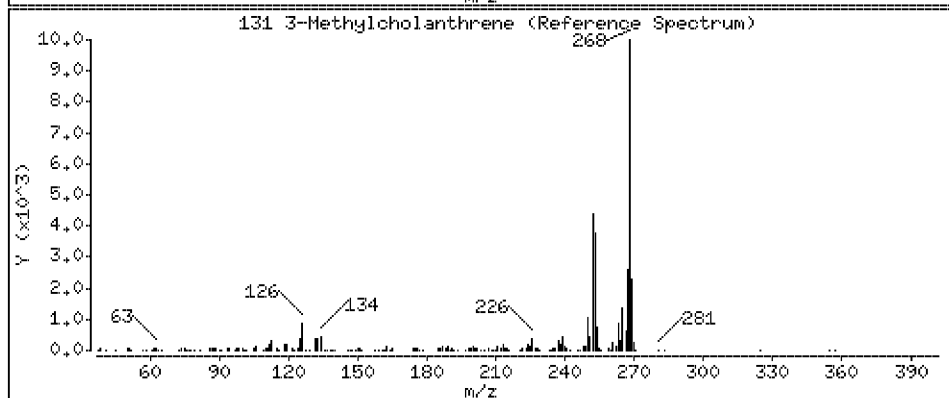
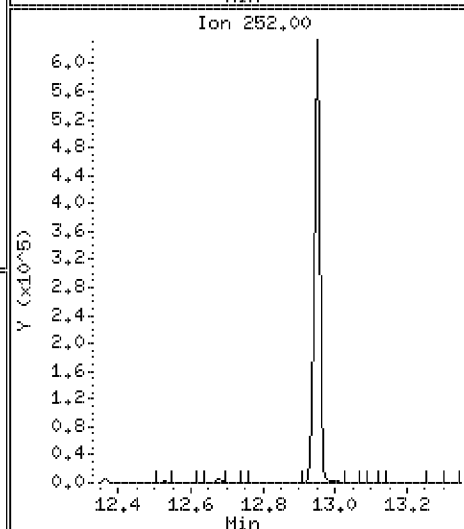
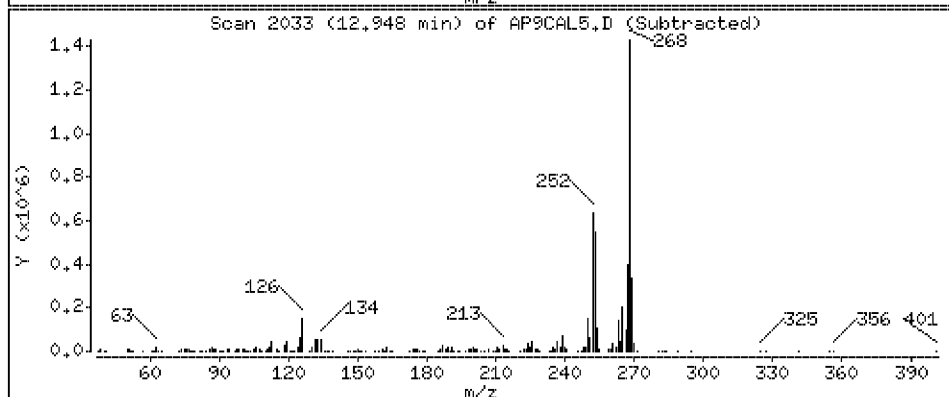
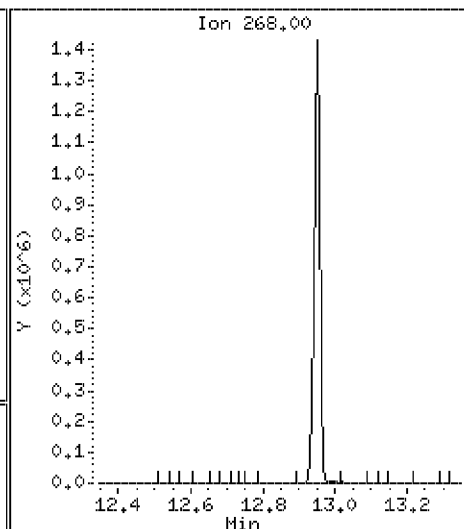
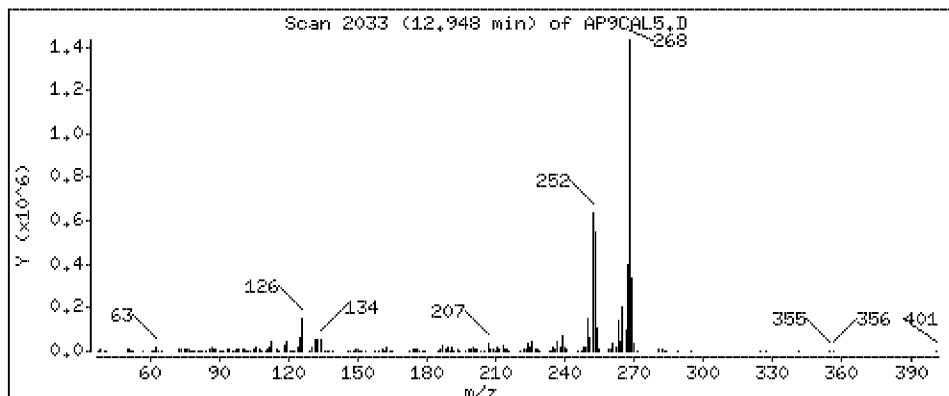
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

131 3-Methylcholanthrene

Concentration: 63.0 ug/l



Date : 23-APR-2012 17:53

Client ID: AP9CAL5

Instrument: smsd03.i

Sample Info: 45957

Purge Volume: 1000.0

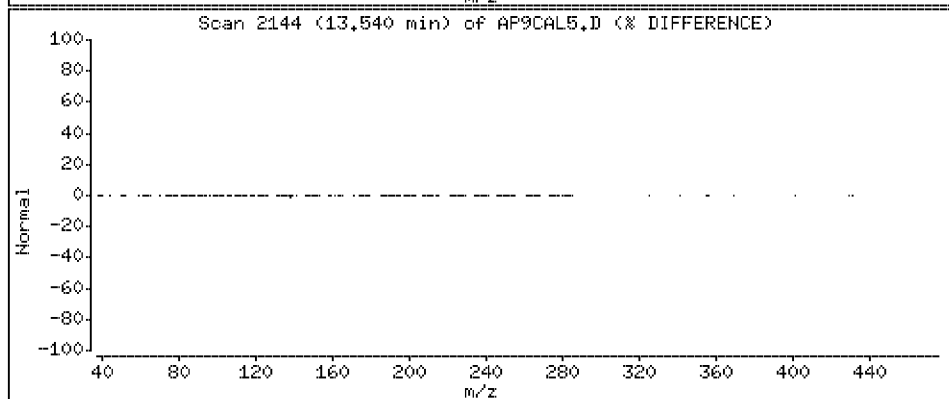
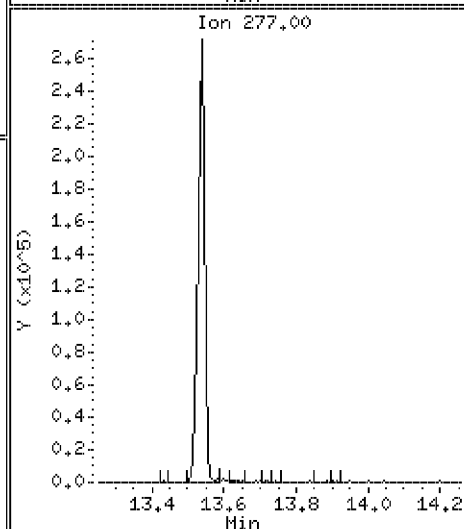
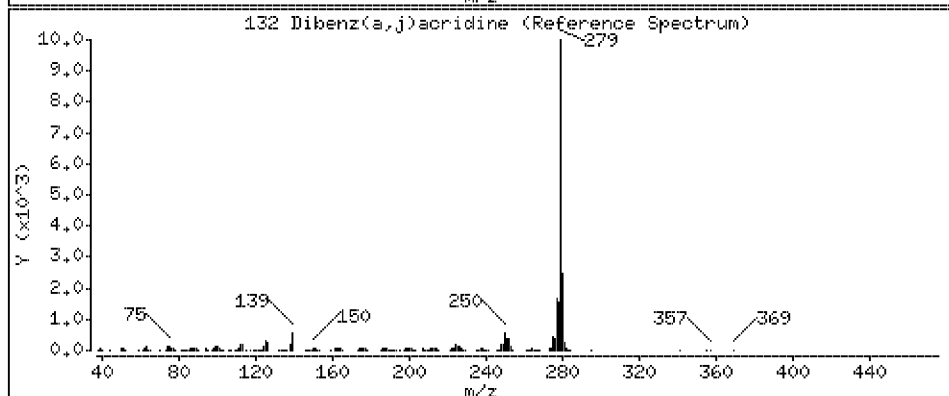
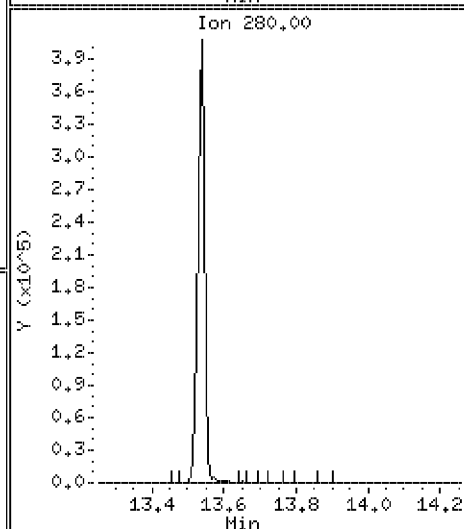
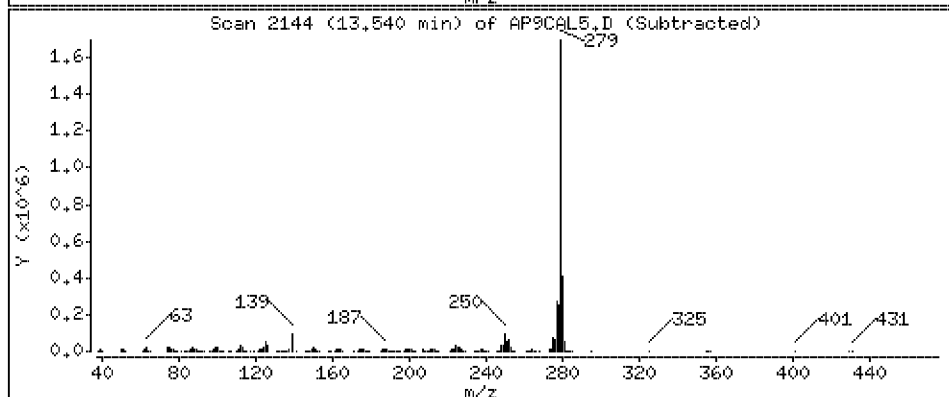
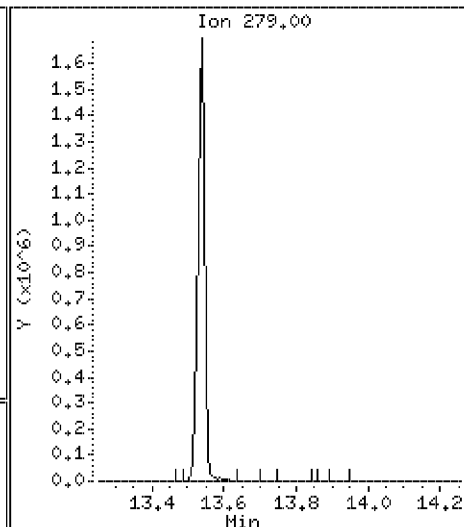
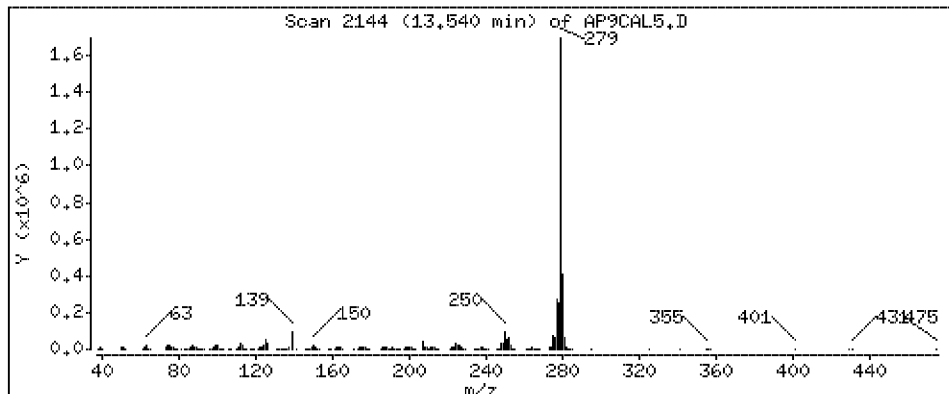
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

132 Dibenz(a,j)acridine

Concentration: 62.8 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3042312.b\AP9CAL4.D
 Lab Smp Id: 45958 Client Smp ID: AP9CAL4
 Inj Date : 23-APR-2012 18:17 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 45958
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270bcs.m
 Meth Date : 25-Apr-2012 09:57 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 17:53 Cal File: AP9CAL5.D
 Als bottle: 21 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ap9cal.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
3 2- Picoline CAS #: 109-06-8									
2.929	3.382	(0.659)	93	480631	45.0000	45.4	70.00- 130.00	100.00	
2.928	3.382	(0.659)	66	242180			46.98- 106.98	50.39	
2.929	3.382	(0.659)	92	121021			941.44-1001.44	25.18	
4 N-Nitrosomethylethylamine CAS #: 10595-95-6									
3.005	3.005	(0.676)	88	204276	45.0000	45.2	80.00- 120.00	100.00	
3.004	3.005	(0.676)	43	95310			16.66- 76.66	46.66	
3.005	3.005	(0.676)	42	215070			75.28- 135.28	105.28	
5 Methyl Methanesulfonate CAS #: 66-27-3									
3.238	3.383	(0.728)	80	340819	45.0000	45.6	70.00- 130.00	100.00	
3.238	3.383	(0.728)	79	197376			41.30- 101.30	57.91	
3.239	3.383	(0.728)	65	95211			390.98- 450.98	27.94	
7 N-Nitrosodiethylamine CAS #: 55-18-5									
3.551	3.383	(0.799)	102	205501	45.0000	45.9	70.00- 130.00	100.00	
3.550	3.383	(0.798)	42	147975			4947.35-5007.35	72.01	
3.550	3.383	(0.798)	57	86207			172953.97-173013.97	41.95	
8 Ethyl Methanesulfonate CAS #: 62-50-0									
3.788	4.446	(0.852)	79	355233	45.0000	45.8	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	
8 Ethyl Methanesulfonate (continued)									
3.788	4.446	(0.852)	109	181856			103.08- 163.08	51.19	
3.788	4.446	(0.852)	97	63483			71.09- 131.09	17.87	

12 Pentachloroethane CAS #: 76-01-7									
4.207	4.207	(0.946)	167	203590	45.0000	46.0	80.00- 120.00	100.00	
4.207	4.207	(0.946)	117	147689			42.54- 102.54	72.54	
4.207	4.207	(0.946)	130	85126			11.81- 71.81	41.81	

* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.447	4.448	(1.000)	152	289492	40.0000		80.00- 120.00	100.00	
4.446	4.448	(1.000)	115	189427			32.20- 92.20	65.43	
4.447	4.448	(1.000)	150	434848			139.77- 199.77	150.21	

24 N-Nitrosopyrrolidine CAS #: 930-55-2									
4.787	4.944	(1.076)	100	219904	45.0000	46.6	70.00- 130.00	100.00	
4.786	4.944	(1.076)	41	146263			349.38- 409.38	66.51	
4.787	4.944	(1.076)	42	122791			7836.39-7896.39	55.84	

25 Acetophenone CAS #: 98-86-2									
4.801	4.807	(0.856)	105	615861	45.0000	44.8	70.00- 130.00	100.00	
4.800	4.807	(0.856)	77	633284			4410.01-4470.01	102.83	
4.800	4.807	(0.856)	51	160849			1262.06-1322.06	26.12	

27 N-Nitrosomorpholine CAS #: 59-89-2									
4.817	4.446	(1.083)	56	223130	45.0000	46.2	70.00- 130.00	100.00	
4.818	4.446	(1.083)	116	78211			116.25- 176.25	35.05	
4.817	4.446	(1.083)	86	152564			171.65- 231.65	68.37	

29 o-Toluidine CAS #: 95-53-4									
4.836	4.814	(1.087)	106	719413	45.0000	46.7	70.00- 130.00	100.00	
4.835	4.814	(1.087)	77	172966			36058.41-36118.41	24.04	
4.836	4.814	(1.087)	107	522333			76505.71-76565.71	72.61	

33 N-Nitrosopiperidine CAS #: 100-75-4									
5.095	4.798	(0.909)	114	197732	45.0000	47.3	70.00- 130.00	100.00	
5.094	4.798	(0.908)	42	226391			3934.42-3994.42	114.49	
5.095	4.798	(0.909)	55	118459			491.51- 551.51	59.91	

37 o,o,o-Triethylphosphorothioate CAS #: 126-68-1									
5.338	5.338	(1.200)	198	314044	45.0000	45.1	80.00- 120.00	100.00	
5.337	5.338	(1.200)	97	203904			34.93- 94.93	64.93	
5.336	5.338	(1.200)	65	172056			24.79- 84.79	54.79	

39 a,a-Dimethylphenethylamine CAS #: 122-09-8									
5.439	5.370	(0.970)	58	692926	45.0000	47.3	70.00- 130.00	100.00(M)	
5.441	5.370	(0.970)	91	222411			64.34- 124.34	32.10	
5.441	5.370	(0.970)	65	122311			12409.05-12469.05	17.65	

* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.608	5.610	(1.000)	136	961576	40.0000		80.00- 120.00	100.00	
5.607	5.610	(1.000)	68	51406			0.00- 35.51	5.35	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====
46 2,6-Dichlorophenol			CAS #: 87-65-0					
5.691	5.691	(1.015)	162	370728	45.0000	46.1	70.00- 130.00	100.00
5.690	5.691	(1.015)	63	283153			8424.37-8484.37	76.38
5.691	5.691	(1.015)	98	99952			164.07- 224.07	26.96
47 Hexachloropropene			CAS #: 1888-71-7					
5.712	5.712	(1.019)	213	485101	45.0000	45.3	80.00- 120.00	100.00
5.712	5.712	(1.019)	215	313430			34.61- 94.61	64.61
5.711	5.712	(1.018)	117	98898			0.00- 50.39	20.39
49 N-Nitrosodi-n-butylamine			CAS #: 924-16-3					
5.991	6.287	(1.068)	84	356991	45.0000	46.1	70.00- 130.00	100.00
5.991	6.287	(1.068)	57	216804			1288.18-1348.18	60.73
5.991	6.287	(1.068)	41	179297			66.46- 126.46	50.22
52 Isosafrole			CAS #: 120-58-1					
6.200	6.619	(1.106)	162	350018	45.0000	44.9	70.00- 130.00	100.00
6.200	6.619	(1.106)	104	265432			0.00- 46.22	75.83
6.200	6.619	(1.106)	131	176285			37.69- 97.69	50.36
56 1,2,4,5-Tetrachlorobenzene			CAS #: 95-94-3					
6.452	6.452	(0.883)	216	562146	45.0000	45.8	80.00- 120.00	100.00
6.452	6.452	(0.883)	214	439535			48.19- 108.19	78.19
6.451	6.452	(0.883)	108	100143			0.00- 47.81	17.81
60 Safrole			CAS #: 94-59-7					
6.702	6.619	(1.195)	162	342646	45.0000	46.8	70.00- 130.00	100.00
6.701	6.619	(1.195)	104	219117			0.00- 46.22	63.95
6.701	6.619	(1.195)	77	140552			0.00- 57.00	41.02
64 1,4-Naphthoquinone			CAS #: 130-15-4					
6.931	6.642	(0.949)	158	320878	45.0000	46.3	70.00- 130.00	100.00
6.931	6.642	(0.949)	102	295643			523.56- 583.56	92.14
6.931	6.642	(0.949)	130	152421			0.00- 46.52	47.50
66 1,3-Dinitrobenzene			CAS #: 99-65-0					
7.068	7.368	(0.968)	168	153766	45.0000	46.9	70.00- 130.00	100.00
7.067	7.368	(0.968)	75	198100			98.40- 158.40	128.83
7.067	7.368	(0.968)	50	109701			177.84- 237.84	71.34
* 70 Acenaphthene-d10			CAS #: 15067-26-2					
7.303	7.305	(1.000)	164	648297	40.0000		80.00- 120.00	100.00
7.303	7.305	(1.000)	162	635914			64.73- 124.73	98.09
7.303	7.305	(1.000)	160	290776			12.46- 72.46	44.85
73 Pentachlorobenzene			CAS #: 608-93-5					
7.467	7.467	(1.022)	250	544750	45.0000	45.5	80.00- 120.00	100.00
7.467	7.467	(1.022)	252	353671			34.92- 94.92	64.92
7.465	7.467	(1.022)	108	146768			0.00- 56.94	26.94
77 1-Naphthylamine			CAS #: 134-32-7					
7.581	7.837	(1.038)	143	516432	45.0000	45.6	70.00- 130.00	100.00
7.580	7.837	(1.038)	115	299806			7143.21-7203.21	58.05

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
77 1-Naphthylamine (continued)								
7.581	7.837	(1.038)	89	65284			2068.79-2128.79	12.64

78 2,3,4,6-Tetrachlorophenol CAS #: 58-90-2								
7.634	7.634	(1.045)	232	307313	45.0000	46.7	70.00- 130.00	100.00
7.634	7.634	(1.045)	168	80128			42.05- 102.05	26.07
7.633	7.634	(1.045)	131	125373			9.10- 69.10	40.80

79 2-Naphthylamine CAS #: 91-59-8								
7.660	7.837	(1.049)	143	679854	45.0000	45.8	70.00- 130.00	100.00
7.660	7.837	(1.049)	115	391403			7143.21-7203.21	57.57
7.660	7.837	(1.049)	116	154977			667.96- 727.96	22.80

83 5-Nitro-ortho-toluidine CAS #: 99-55-8								
7.856	7.896	(1.076)	152	267691	45.0000	46.4	70.00- 130.00	100.00
7.856	7.896	(1.076)	106	192927			505.60- 565.60	72.07
7.855	7.896	(1.075)	77	337606			735.48- 795.48	126.12

90 1,3,5-Trinitrobenzene CAS #: 99-35-4								
8.216	8.152	(1.125)	75	686832	45.0000	43.8	70.00- 130.00	100.00
8.216	8.152	(1.125)	74	422803			50.14- 110.14	61.56
8.217	8.152	(1.125)	213	247157			40.88- 100.88	35.99

89 Diallate CAS #: 2303-16-4								
8.233	8.081	(1.127)	86	363680	45.0000	45.2	70.00- 130.00	100.00(M)
8.233	8.081	(1.127)	43	369418			0.00- 38.70	101.58
8.233	8.081	(1.127)	234	241872			0.00- 39.00	66.51

92 Phenacetin CAS #: 62-44-2								
8.264	8.384	(0.943)	109	395788	45.0000	43.5	70.00- 130.00	100.00
8.264	8.384	(0.943)	108	459699			77.38- 137.38	116.15
8.265	8.384	(0.943)	179	272423			133.19- 193.19	68.83

91 p-Phenylenediamine CAS #: 106-50-3								
8.264	8.082	(0.943)	108	459699	45.0000	46.1	70.00- 130.00	100.00
8.264	8.082	(0.943)	80	127905			1858.68-1918.68	27.82
8.264	8.082	(0.943)	53	60797			5306.16-5366.16	13.23

97 Pentachloronitrobenzene CAS #: 82-68-8								
8.589	8.589	(0.980)	237	212741	45.0000	45.4	80.00- 120.00	100.00
8.590	8.589	(0.981)	295	79479			7.36- 67.36	37.36
8.588	8.589	(0.980)	142	155289			42.99- 102.99	72.99

98 4-Aminobiphenyl CAS #: 92-67-1								
8.575	8.584	(0.979)	169	1011064	45.0000	44.8	70.00- 130.00	100.00
8.575	8.584	(0.979)	168	228739			0.00- 49.63	22.62
8.575	8.584	(0.979)	115	125997			0.00- 40.98	12.46

99 Pronamide CAS #: 23950-58-5								
8.632	8.781	(0.985)	173	509512	45.0000	45.4	70.00- 130.00	100.00
8.632	8.781	(0.985)	175	328134			2051.90-2111.90	64.40
8.632	8.781	(0.985)	145	193465			63.94- 123.94	37.97

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 100 Phenanthrene-d10					CAS #: 1517-22-2				
8.760	8.761	(1.000)	188	1305719	40.0000		80.00- 120.00	100.00	
8.759	8.761	(1.000)	94	84472			0.00- 36.35	6.47	
8.758	8.761	(1.000)	80	107637			0.00- 37.82	8.24	

102 Dinoseb					CAS #: 88-85-7				
8.753	8.753	(0.999)	211	331362	45.0000	44.6	80.00- 120.00	100.00	
8.753	8.753	(0.999)	163	125171			7.77- 67.77	37.77	
8.753	8.753	(0.999)	117	73071			0.00- 52.05	22.05	

106 4-Nitroquinoline-1-oxide					CAS #: 56-57-5				
9.542	9.334	(1.089)	174	13988	45.0000	44.6	70.00- 130.00	100.00	
9.542	9.334	(1.089)	128	29859			429.24- 489.24	213.46	
9.542	9.334	(1.089)	101	51876			988.96-1048.96	370.86	

107 Methapyrilene					CAS #: 91-80-5				
9.608	10.322	(1.097)	97	21560	45.0000	49.3	70.00- 130.00	100.00	
9.609	10.322	(1.097)	58	20965			11.52- 71.52	97.24	
9.611	10.322	(1.097)	191	3685			0.00- 52.18	17.09	

108 Isodrin					CAS #: 465-73-6				
9.801	10.279	(1.119)	193	177354	45.0000	44.6	70.00- 130.00	100.00	
9.800	10.279	(1.119)	66	160890			17952.44-18012.44	90.72	
9.801	10.279	(1.119)	195	145300			1135.23-1195.23	81.93	

113 Aramite					CAS #: 140-57-8				
10.370	10.370	(0.913)	185	170387	45.0000	46.4	80.00- 120.00	100.00(M)	
10.370	10.370	(0.913)	191	88230			21.78- 81.78	51.78	
10.295	10.370	(0.907)	319	62478			6.67- 66.67	36.67	

114 p-Dimethylamino azobenzene					CAS #: 60-11-7				
10.460	10.323	(0.921)	225	415771	45.0000	45.9	70.00- 130.00	100.00	
10.459	10.323	(0.921)	120	397057			99.50- 159.50	95.50	
10.459	10.323	(0.921)	77	431714			9.48- 69.48	103.83	

115 Chlorobenzilate					CAS #: 510-15-6				
10.503	10.503	(0.925)	251	638915	45.0000	45.6	80.00- 120.00	100.00	
10.503	10.503	(0.925)	253	420265			35.78- 95.78	65.78	
10.502	10.503	(0.925)	139	579608			60.72- 120.72	90.72	

116 Kepone					CAS #: 143-50-0				
10.840	10.840	(0.955)	272	117329	45.0000	49.0	80.00- 120.00	100.00(QM)	
10.840	10.840	(0.955)	274	95904			51.74- 111.74	81.74	
10.840	10.840	(0.955)	237	34634			0.00- 59.52	29.52	

117 3,3-Dimethylbenzidine					CAS #: 119-93-7				
10.792	10.799	(0.951)	212	1305021	45.0000	47.4	70.00- 130.00	100.00	
10.791	10.799	(0.951)	106	86218			2299.94-2359.94	6.61	
10.792	10.799	(0.951)	180	97054			6.44- 66.44	7.44	

119 2-Acetylaminofluorene					CAS #: 53-96-3				
11.041	10.324	(0.972)	181	744070	45.0000	46.9	70.00- 130.00	100.00	
11.041	10.324	(0.973)	223	485551			491.83- 551.83	65.26	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====
119 2-Acetylaminofluorene (continued)								
11.041	10.324	(0.972)	180	624673			639.65- 699.65	83.95

* 121 Chrysene-d12 CAS #: 1719-03-5								
11.353	11.359	(1.000)	240	1538825	40.0000		80.00- 120.00	100.00
11.352	11.359	(1.000)	120	80675			0.00- 36.38	5.24
11.353	11.359	(1.000)	236	407408			0.00- 57.06	26.48

126 7,12-Dimethylbenz(a)anthracen CAS #: 57-97-6								
12.321	12.088	(0.972)	256	983315	45.0000	45.5	70.00- 130.00	100.00
12.320	12.088	(0.972)	241	563346			77.87- 137.87	57.29
12.320	12.088	(0.972)	239	460240			73.24- 133.24	46.80

* 130 Perylene-d12 CAS #: 1520-96-3								
12.679	12.682	(1.000)	264	1517152	40.0000		80.00- 120.00	100.00
12.679	12.682	(1.000)	260	368091			0.00- 54.80	24.26
12.678	12.682	(1.000)	265	349150			0.00- 53.39	23.01

131 3-Methylcholanthrene CAS #: 56-49-5								
12.945	12.847	(1.021)	268	1112021	45.0000	45.7	70.00- 130.00	100.00
12.945	12.847	(1.021)	252	483271			13.23- 73.23	43.46
12.945	12.847	(1.021)	253	407276			6.61- 66.61	36.62

132 Dibenz(a,j)acridine CAS #: 224-42-0								
13.537	13.755	(1.068)	279	1628190	45.0000	46.5	70.00- 130.00	100.00
13.537	13.755	(1.068)	280	384523			0.00- 41.79	23.62
13.537	13.755	(1.068)	277	250979			93.47- 153.47	15.41

QC Flag Legend

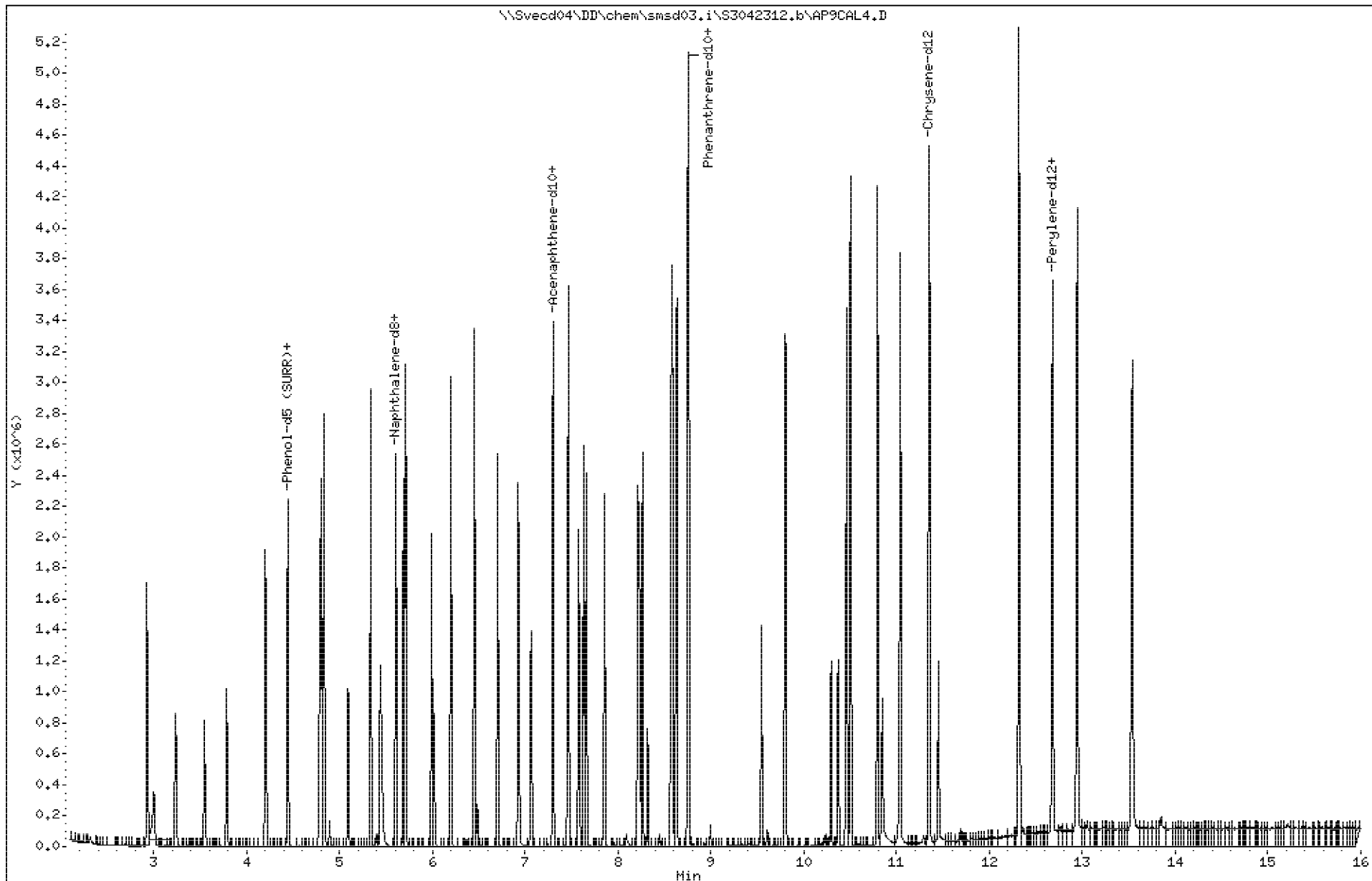
Q - Qualifier signal failed the ratio test.
 M - Compound response manually integrated.

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Date : 23-APR-2012 18:17
Client ID: AP9CAL4
Sample Info: 45958
Purge Volume: 1000.0
Column phase: HPMS-5

Instrument: smsd03.i

Operator: PEL

Column diameter: 0.25



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

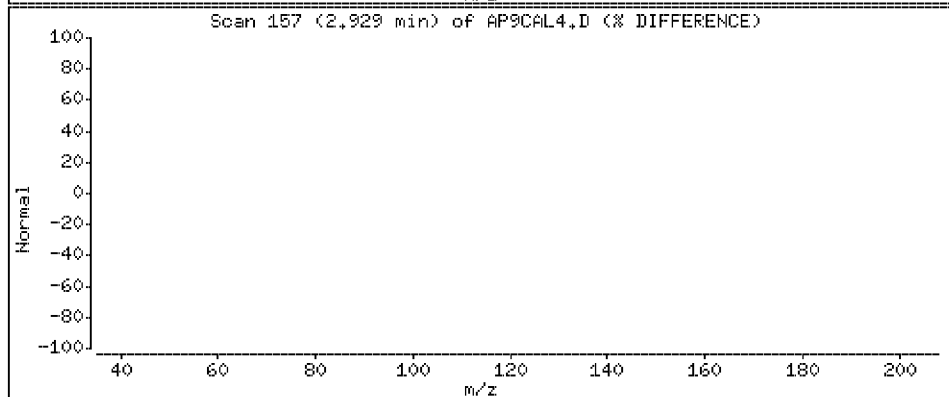
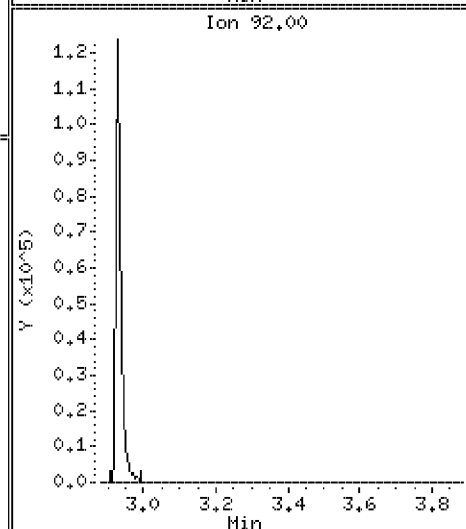
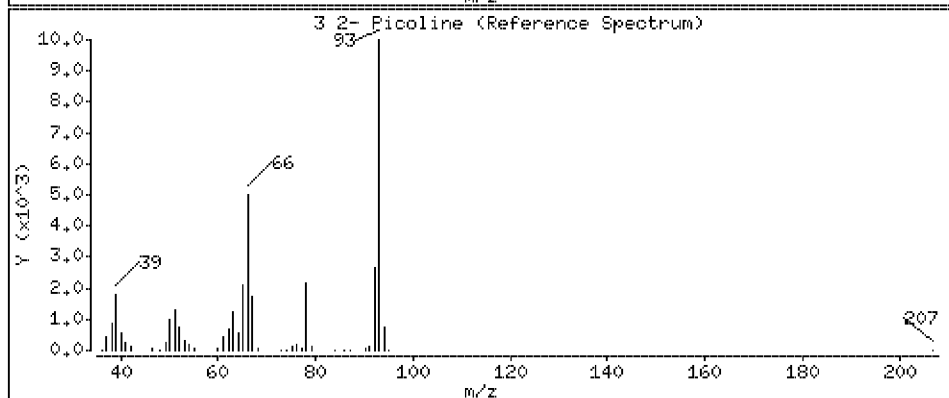
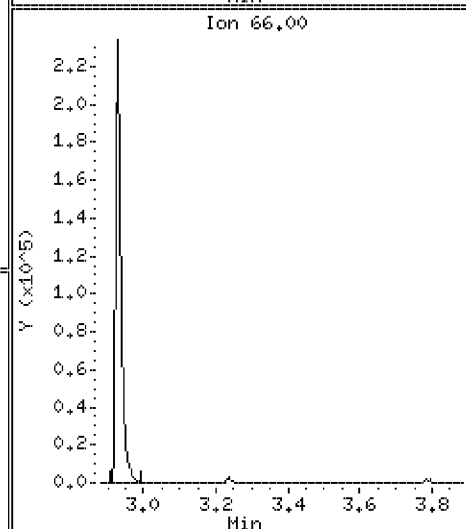
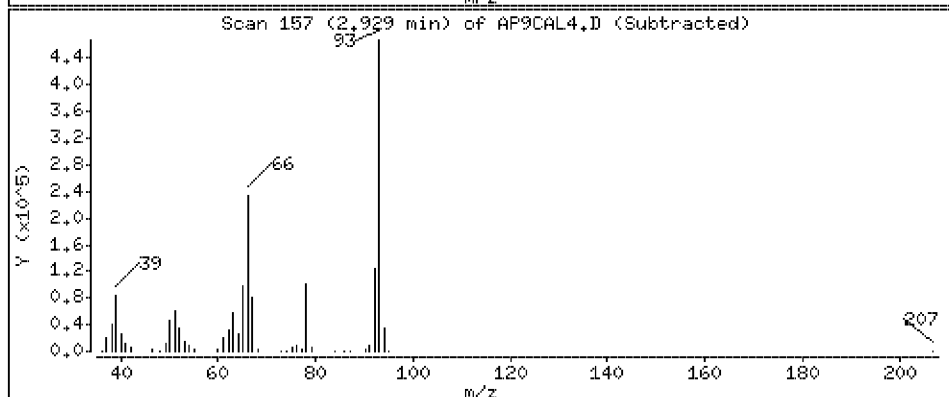
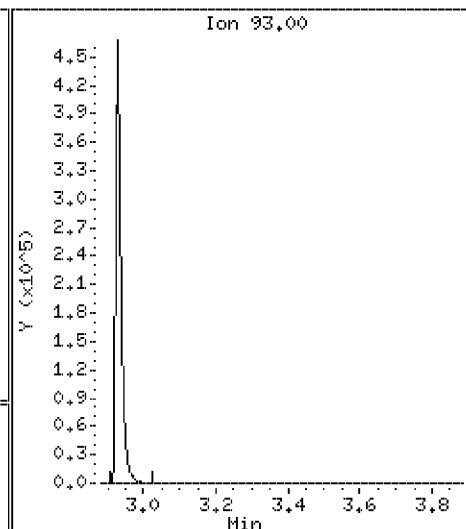
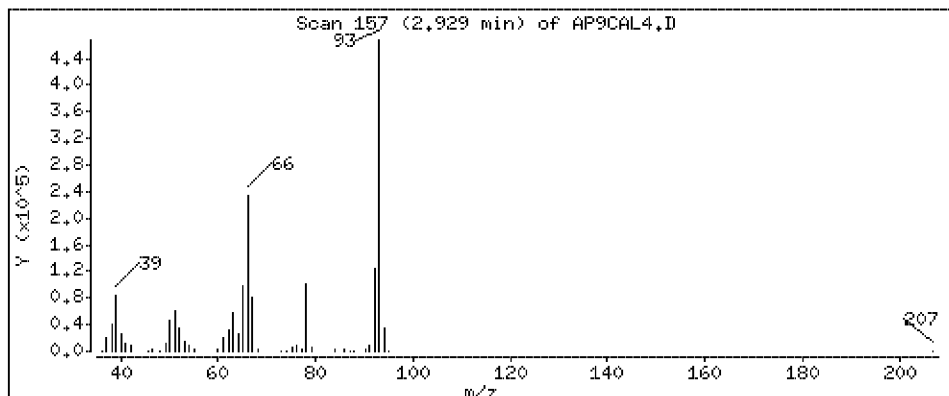
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

3 2- Picoline

Concentration: 45.4 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

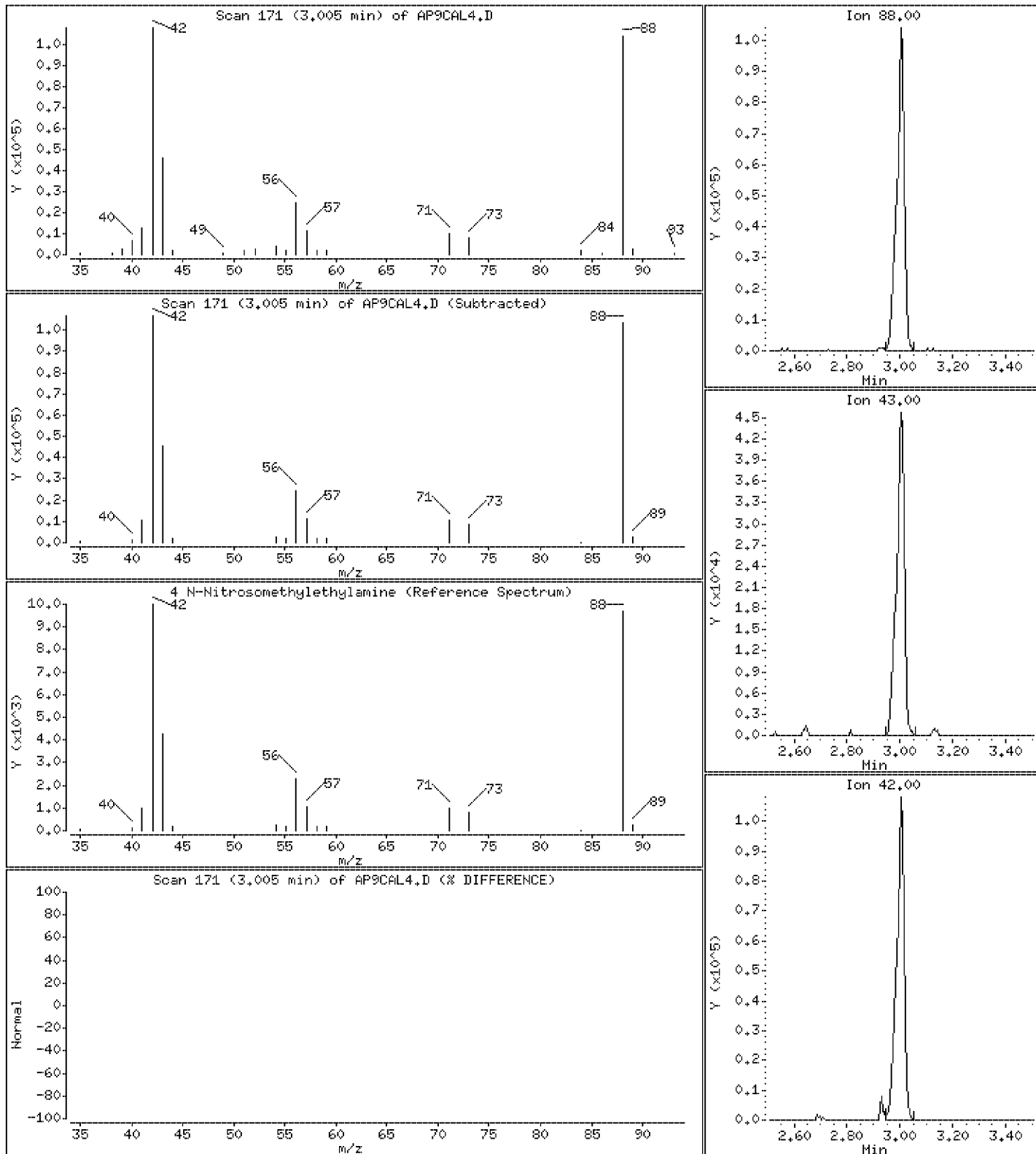
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

4 N-Nitrosomethylethylamine

Concentration: 45.2 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

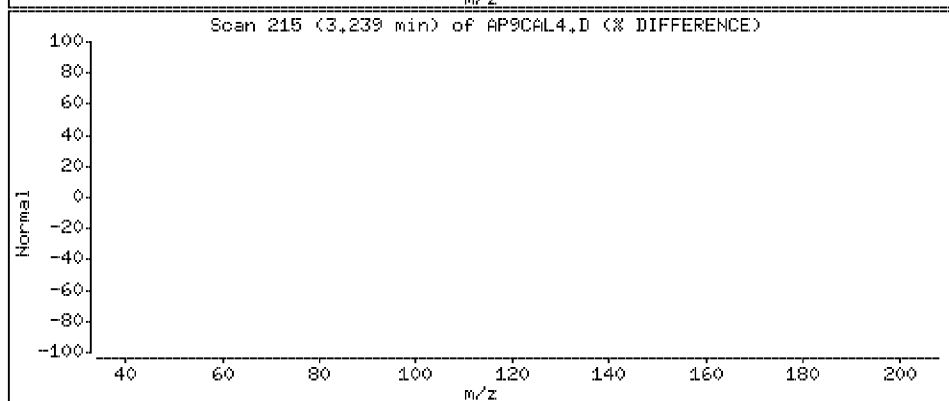
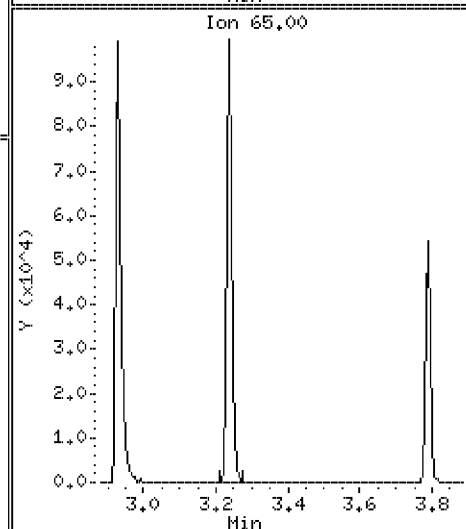
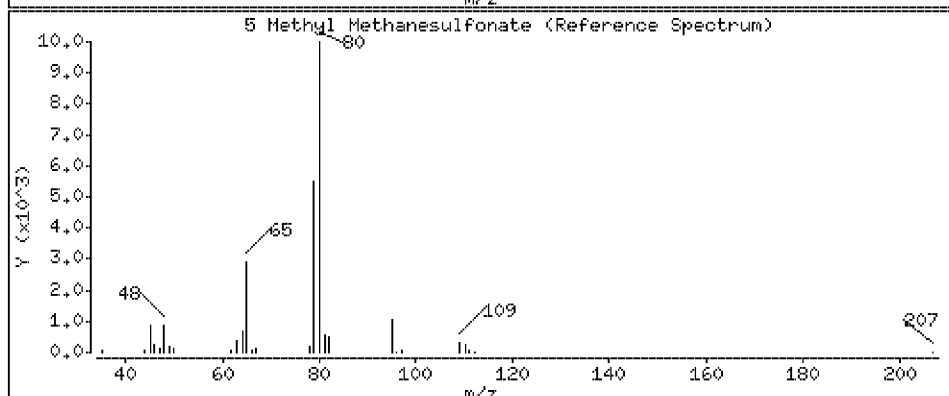
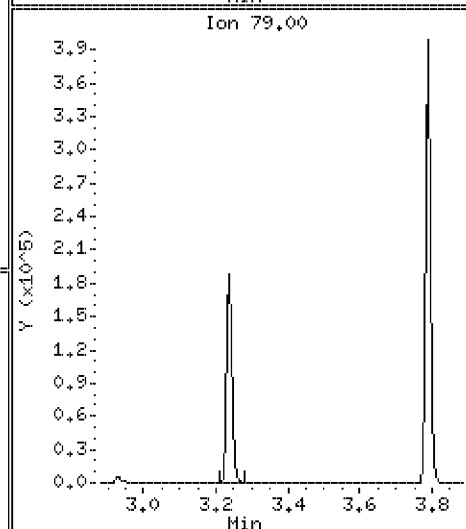
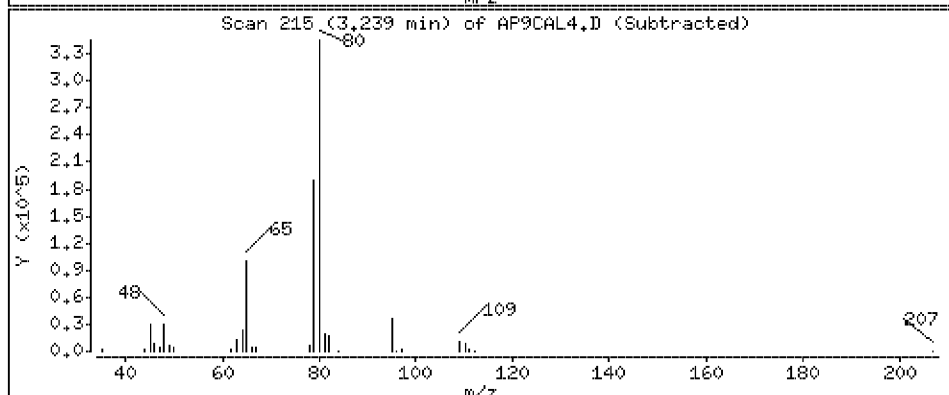
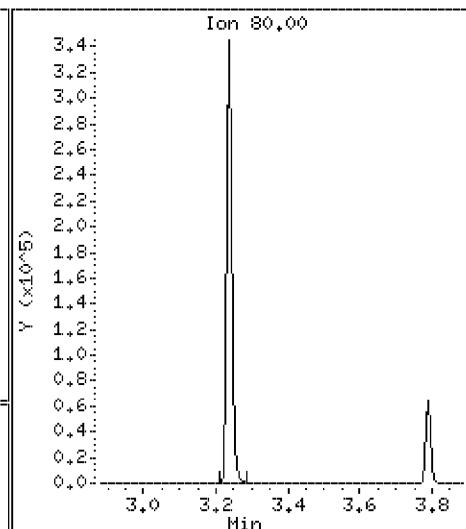
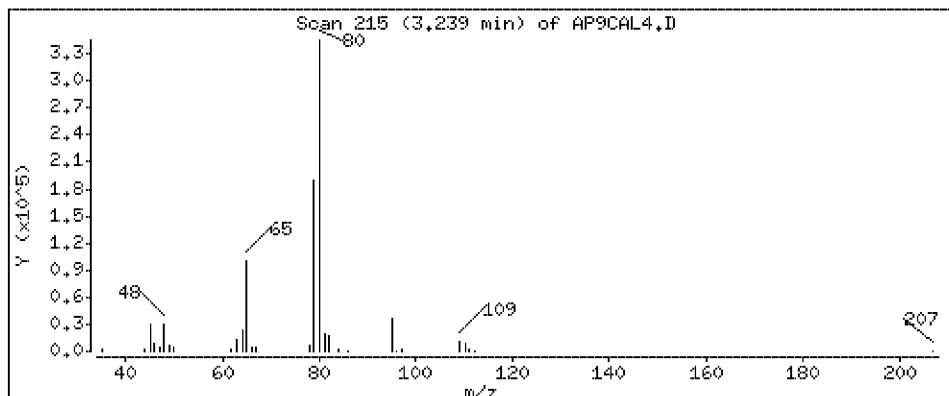
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

5 Methyl Methanesulfonate

Concentration: 45.6 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

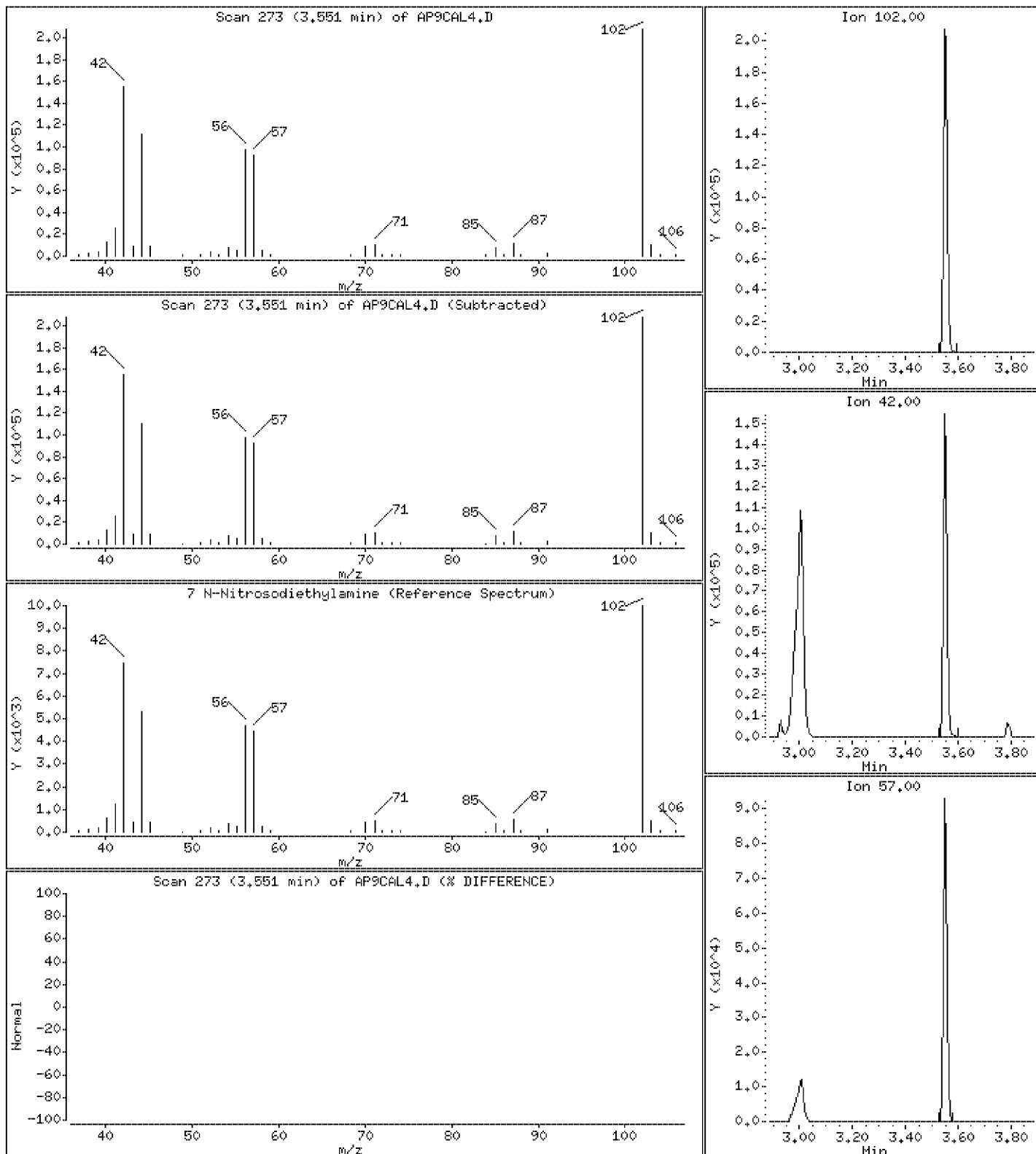
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

7 N-Nitrosodiethylamine

Concentration: 45.9 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

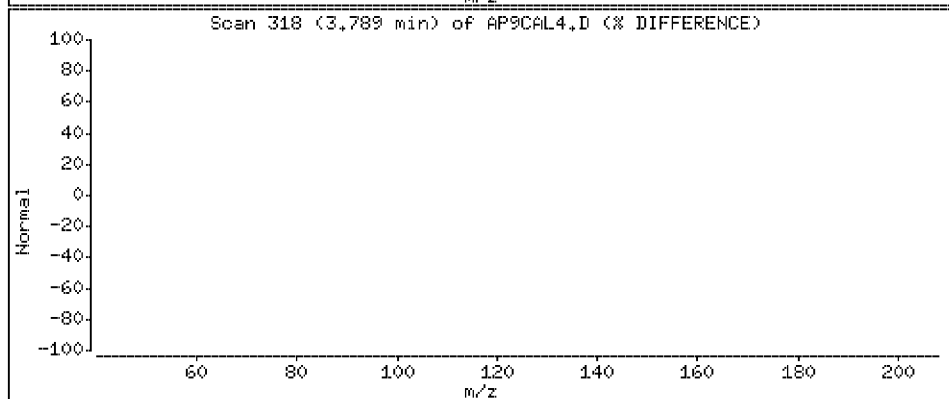
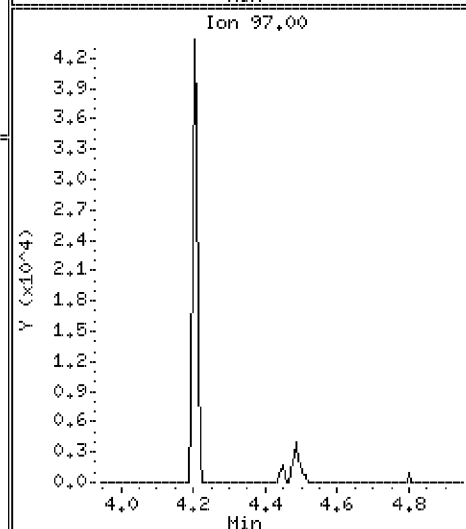
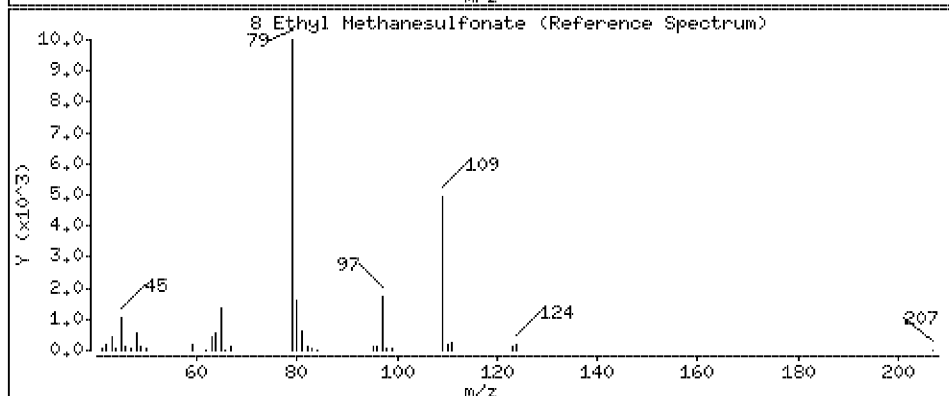
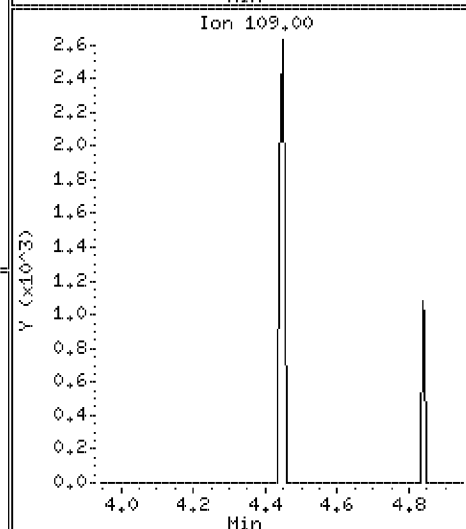
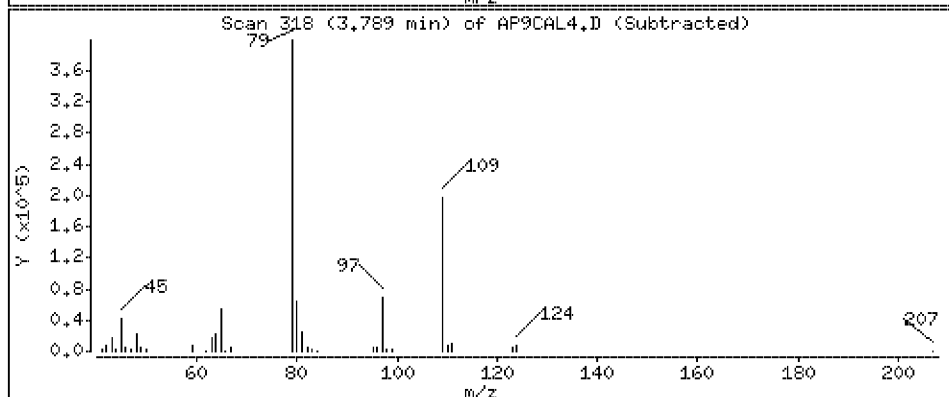
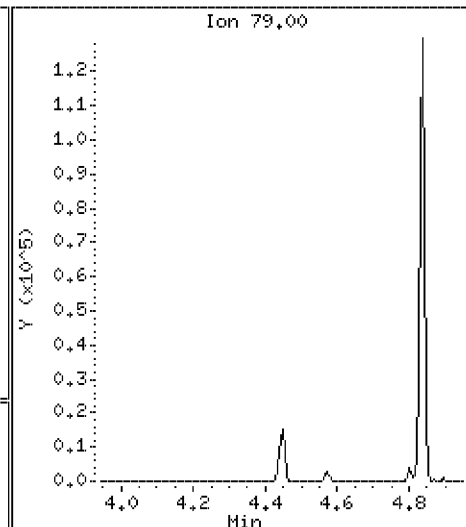
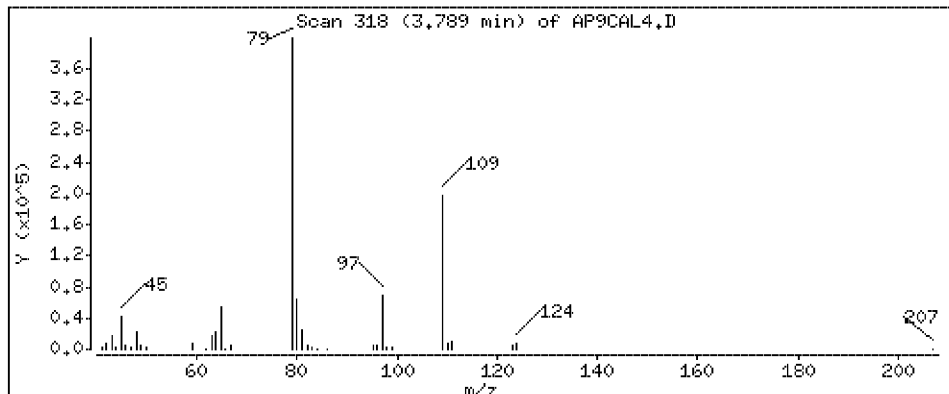
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

8 Ethyl Methanesulfonate

Concentration: 45.8 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

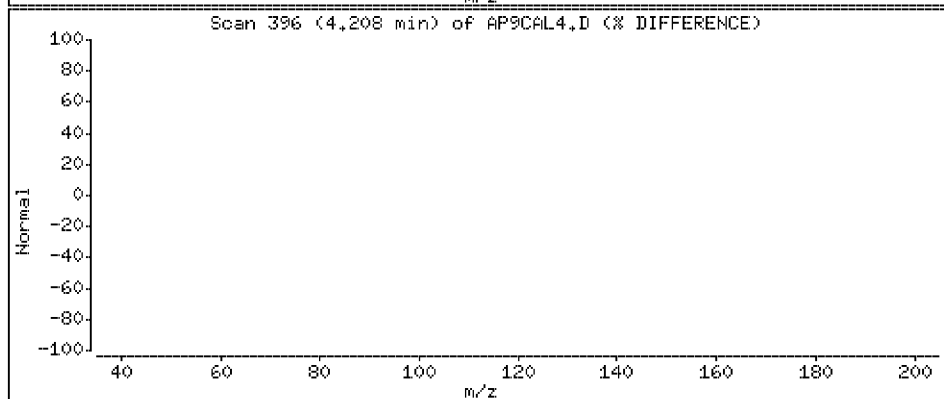
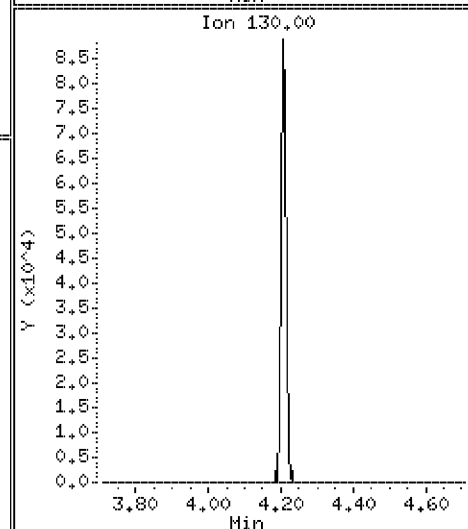
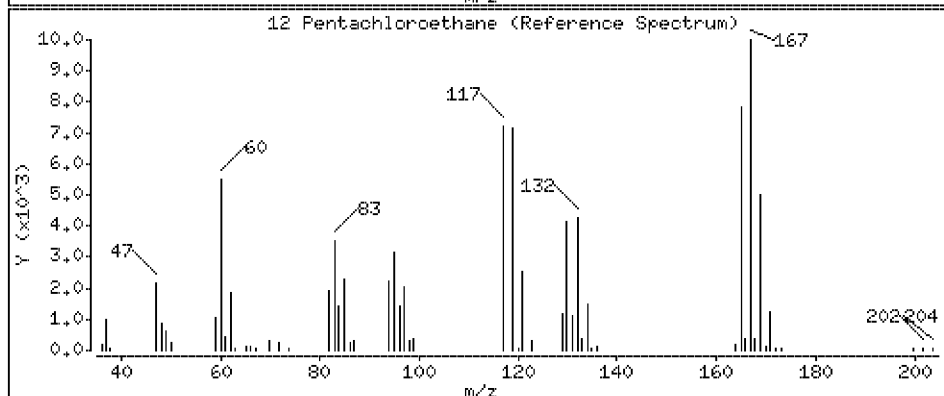
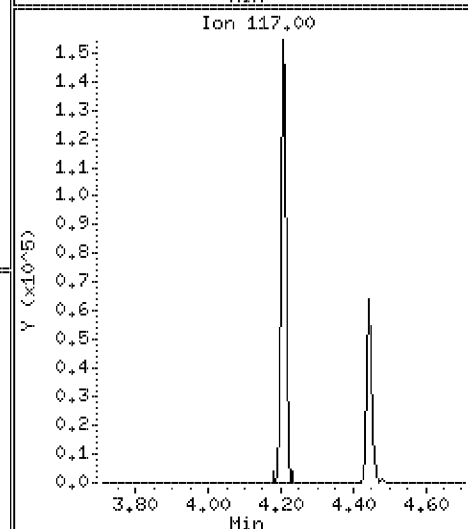
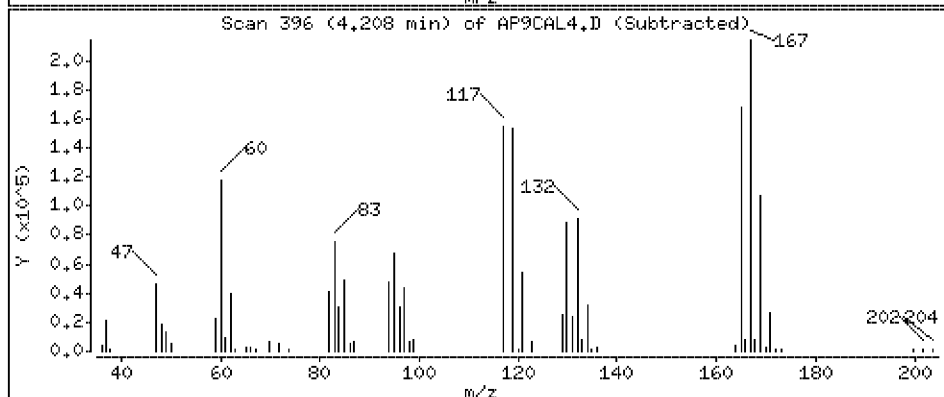
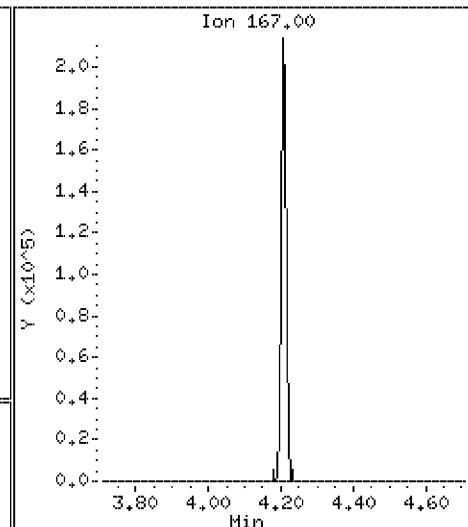
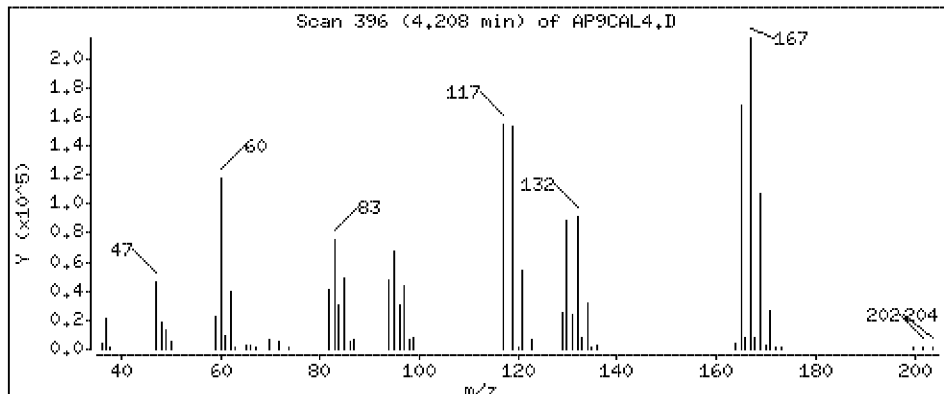
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

12 Pentachloroethane

Concentration: 46.0 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

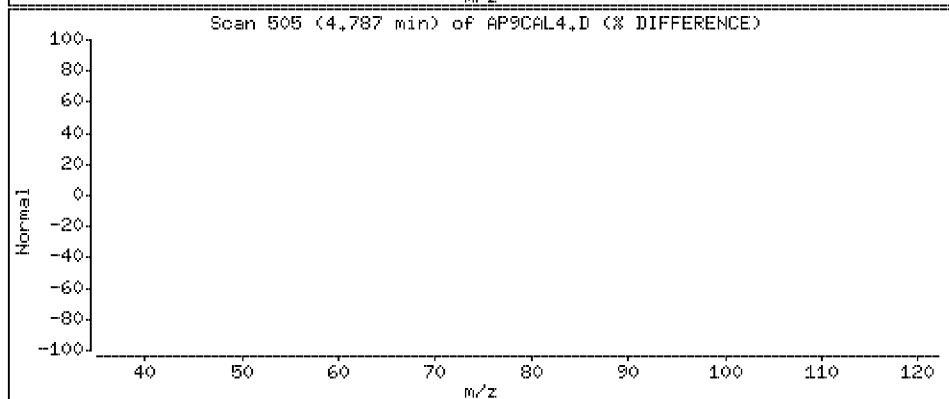
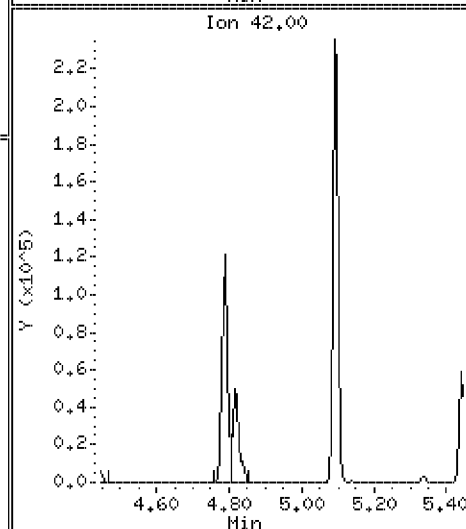
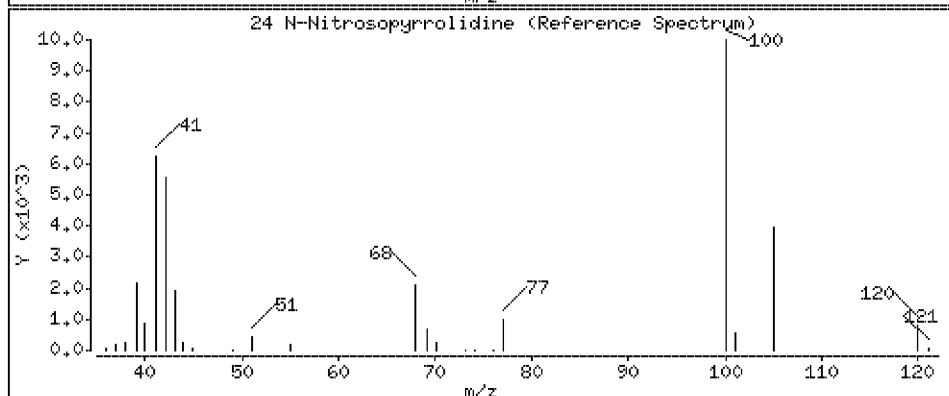
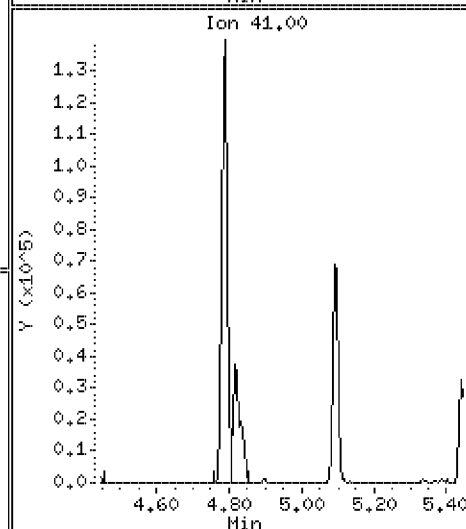
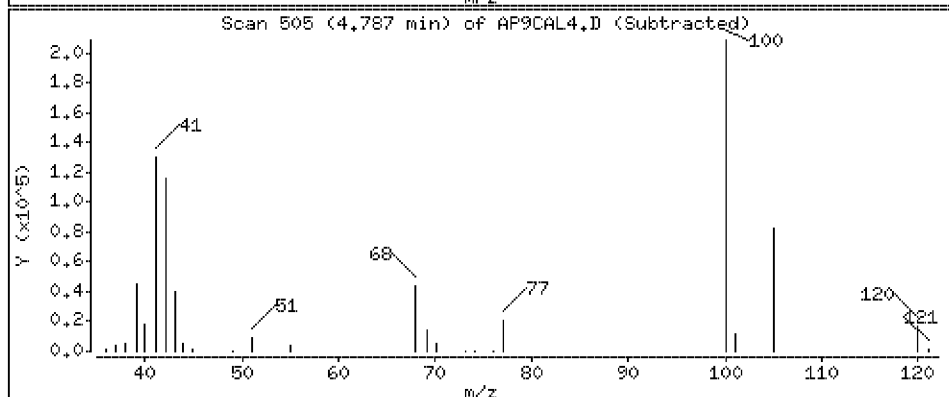
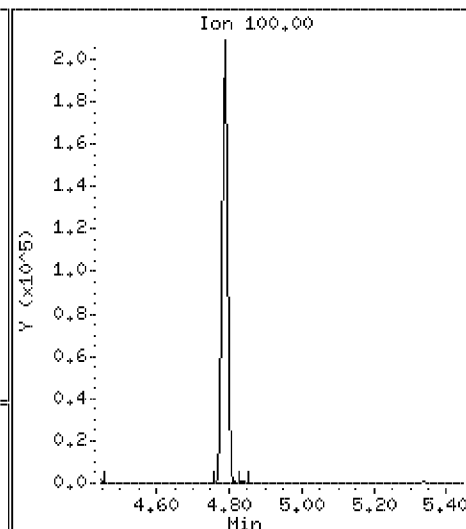
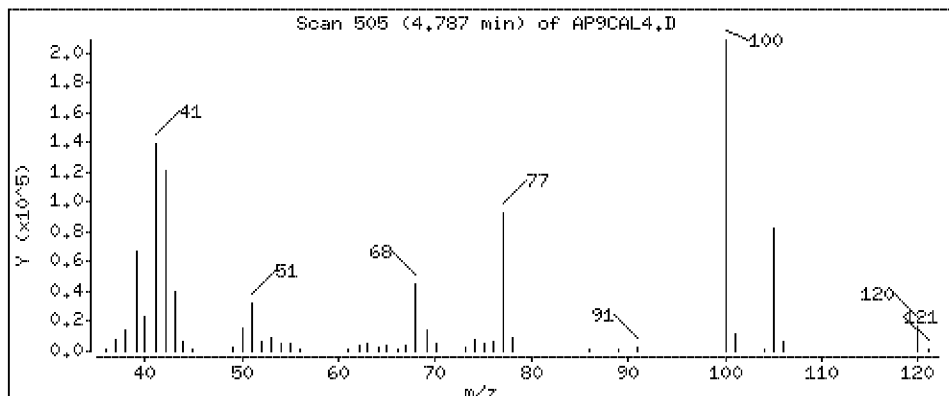
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

24 N-Nitrosopyrrolidine

Concentration: 46.6 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

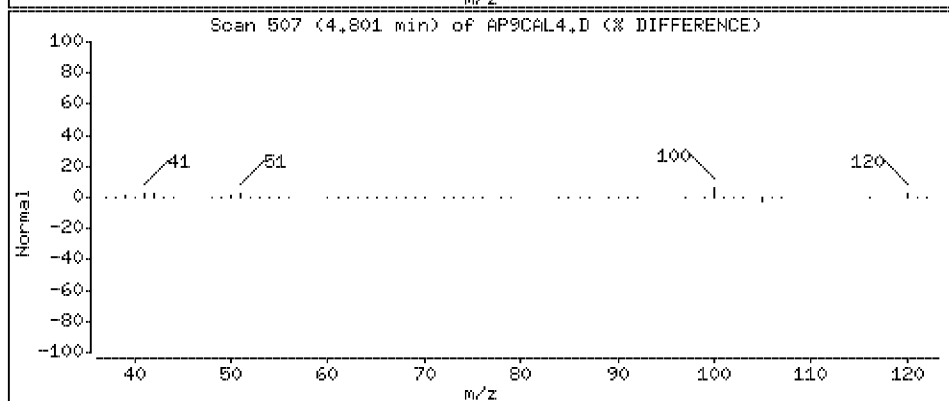
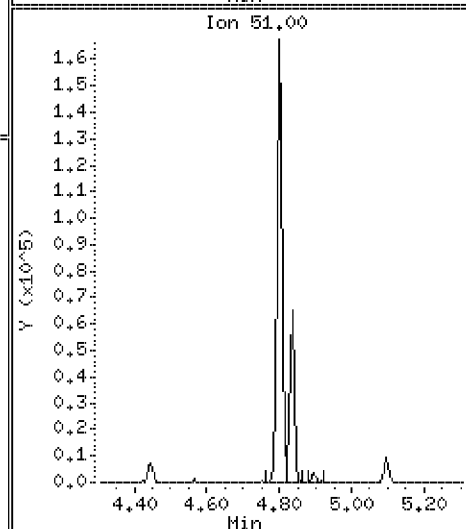
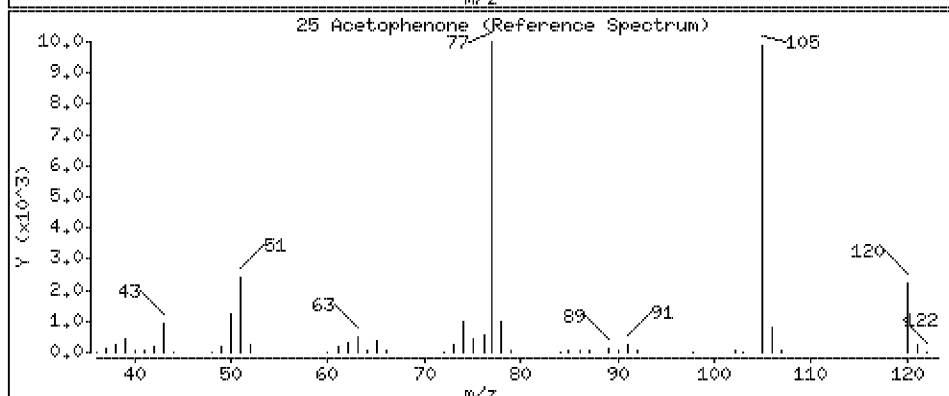
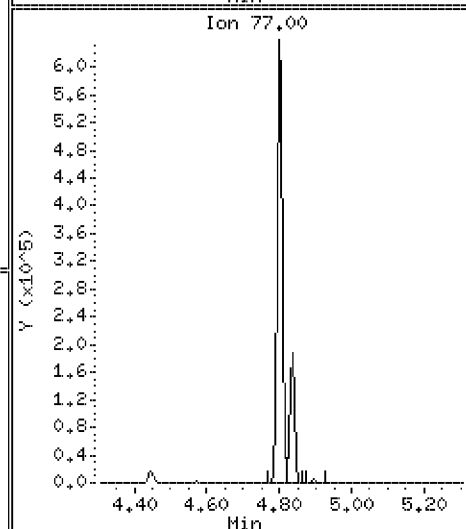
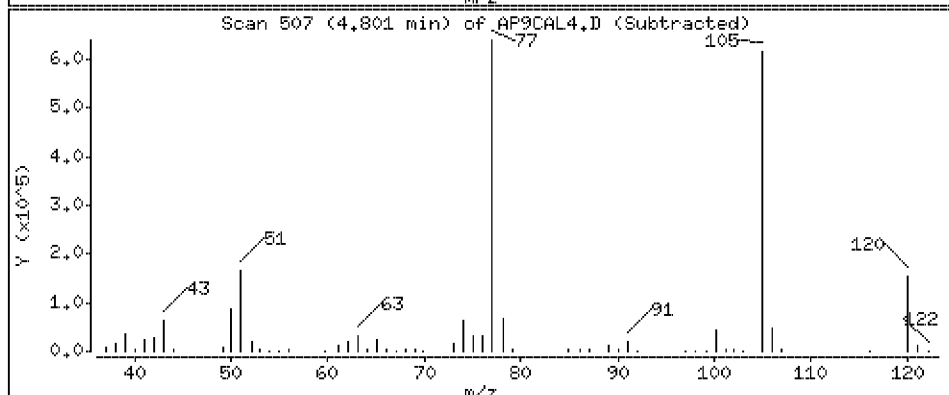
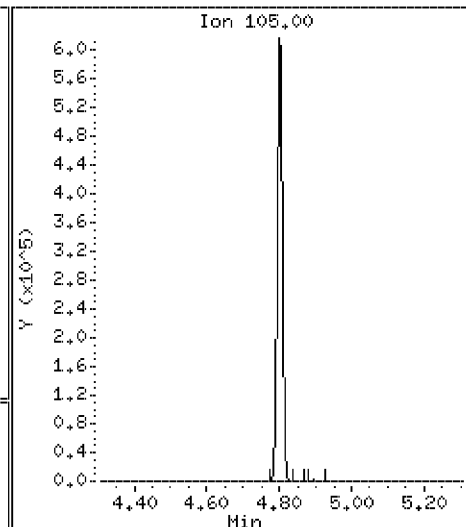
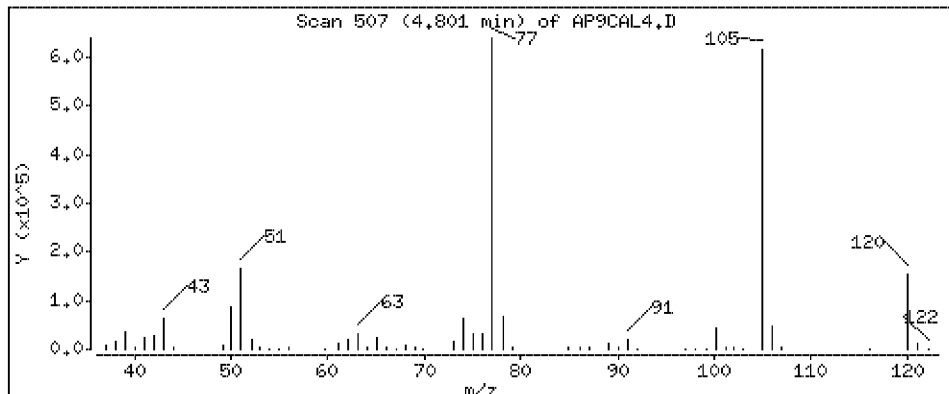
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

25 Acetophenone

Concentration: 44.8 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

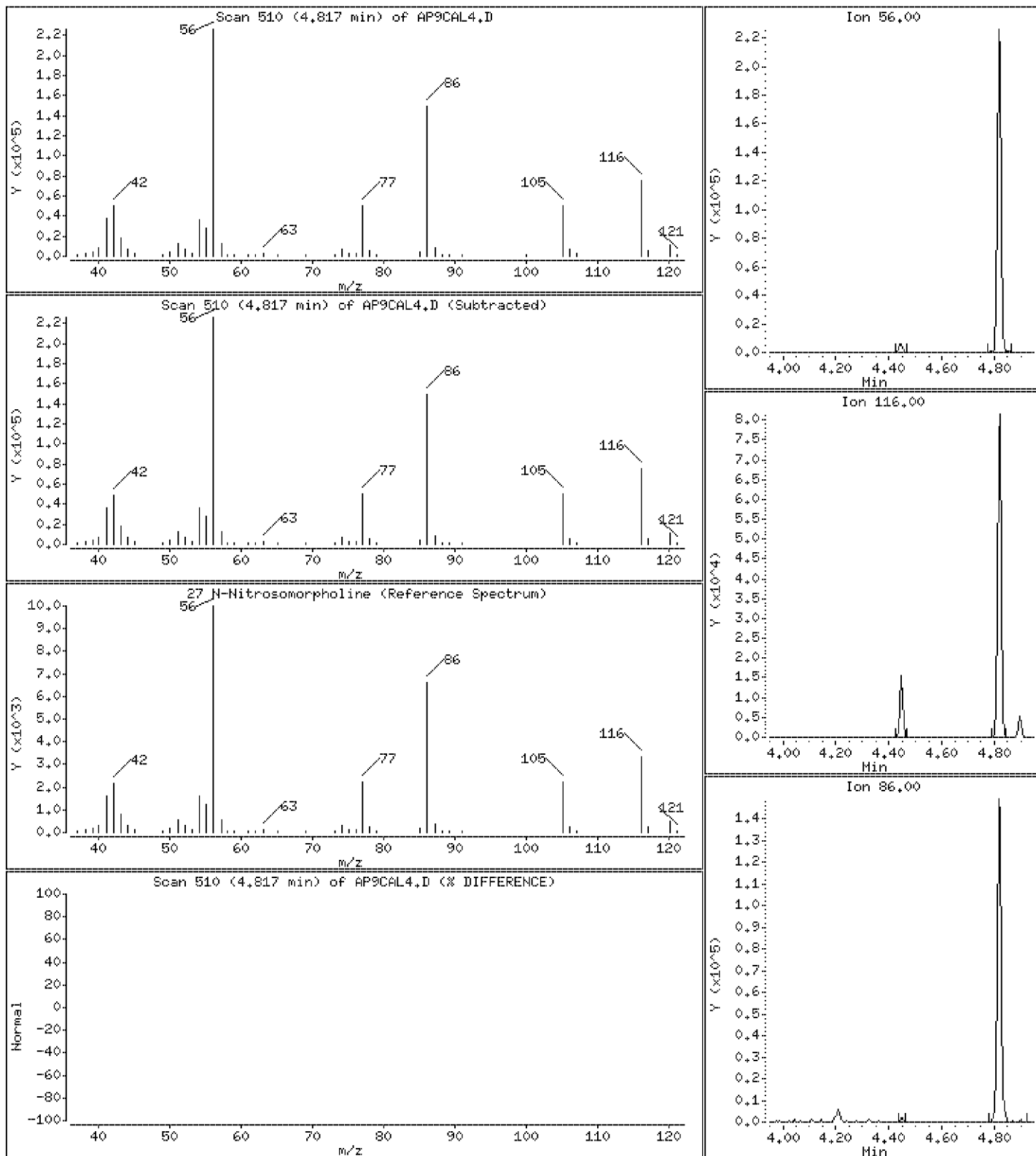
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

27 N-Nitrosomorpholine

Concentration: 46.2 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

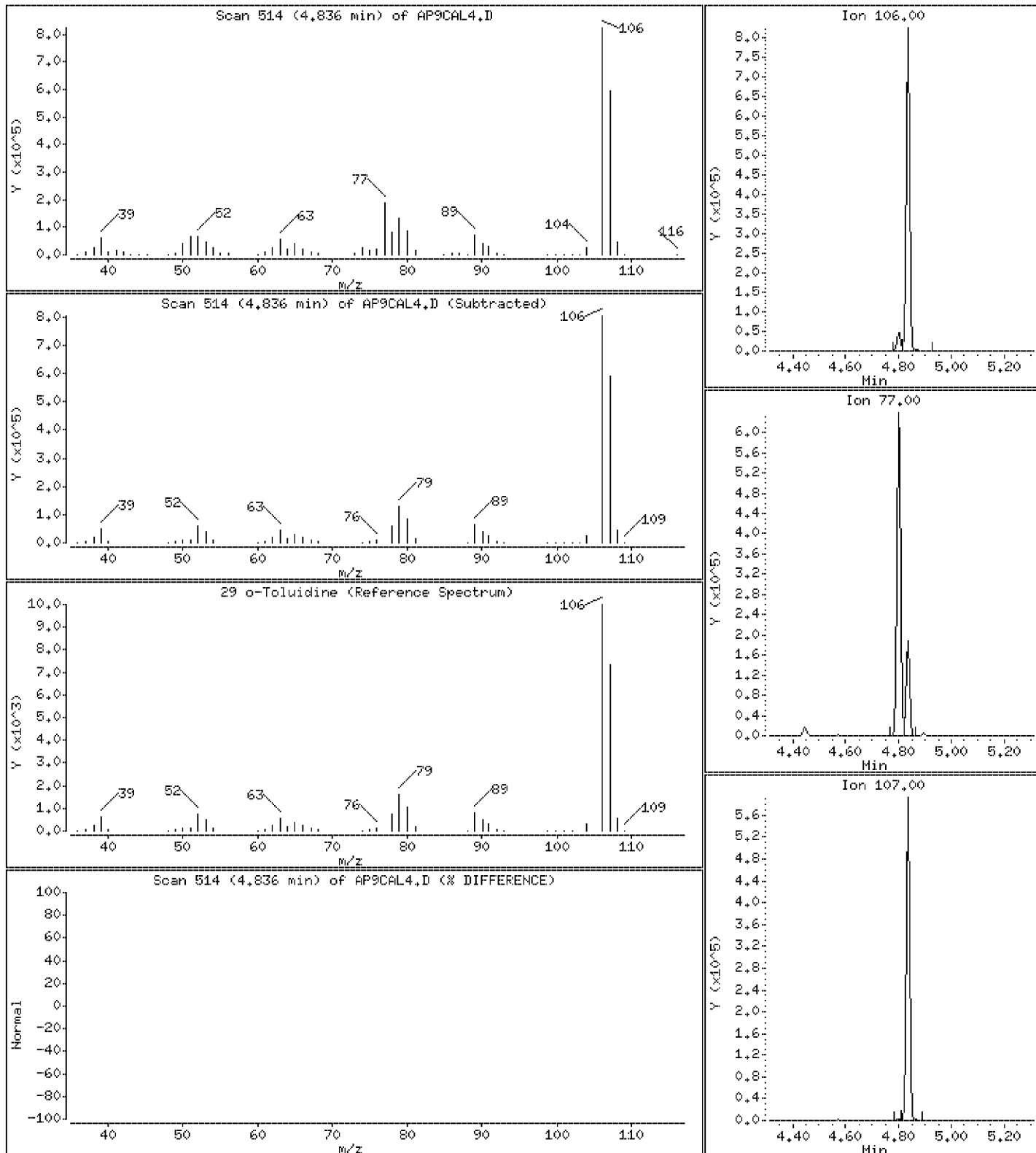
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

29 o-Toluidine

Concentration: 46.7 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

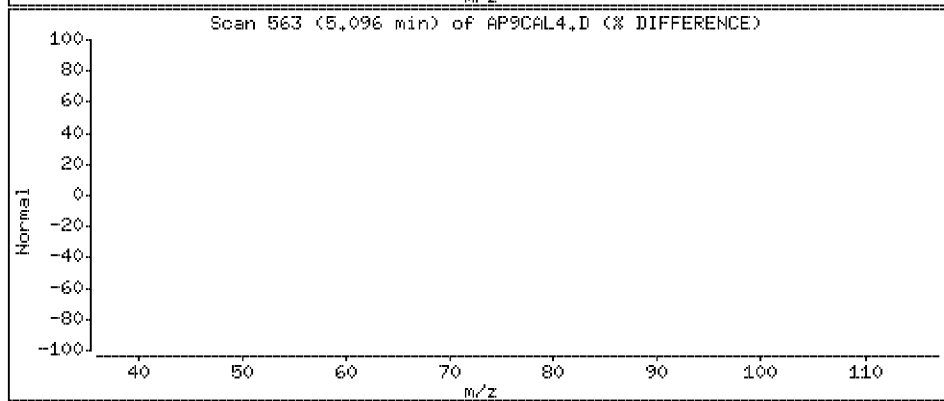
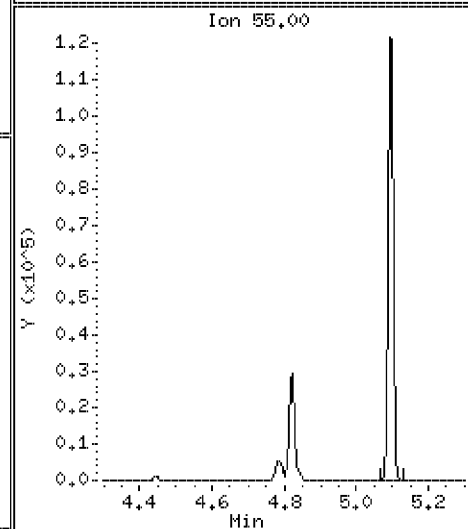
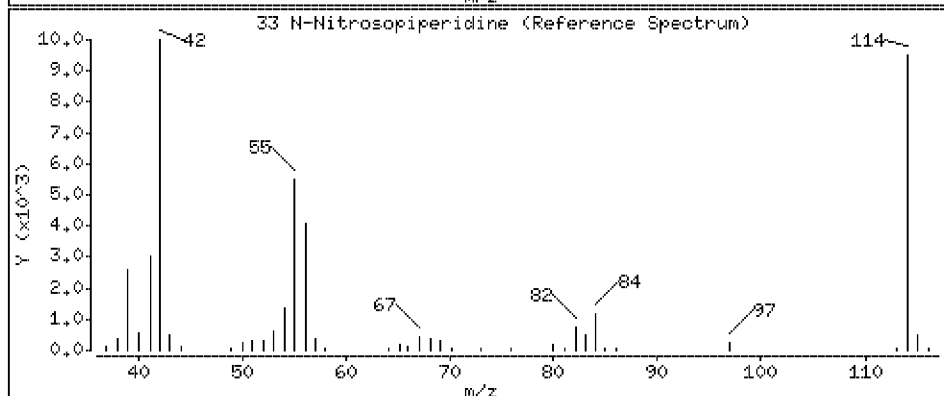
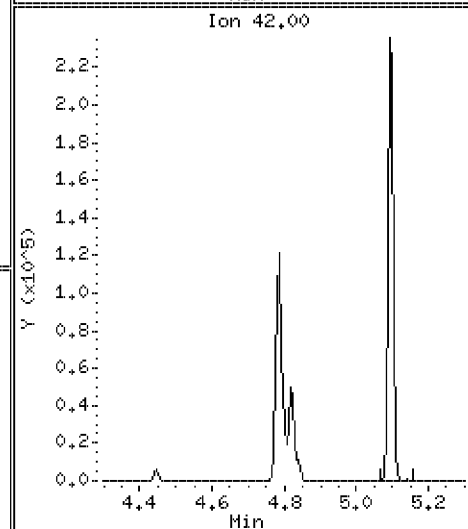
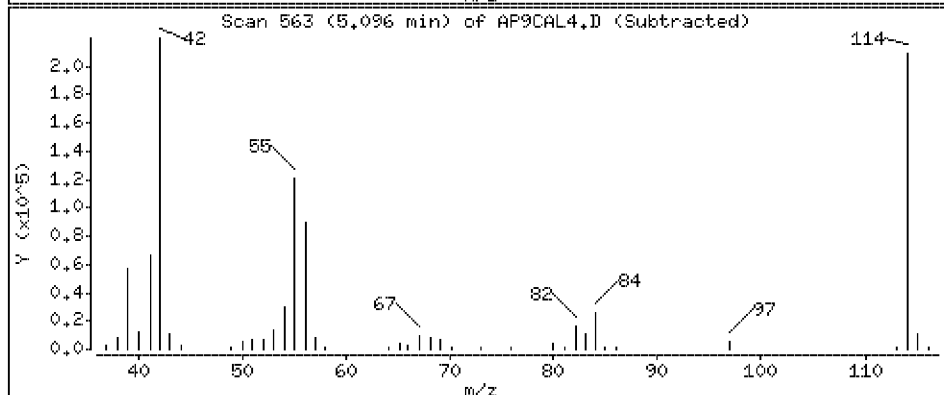
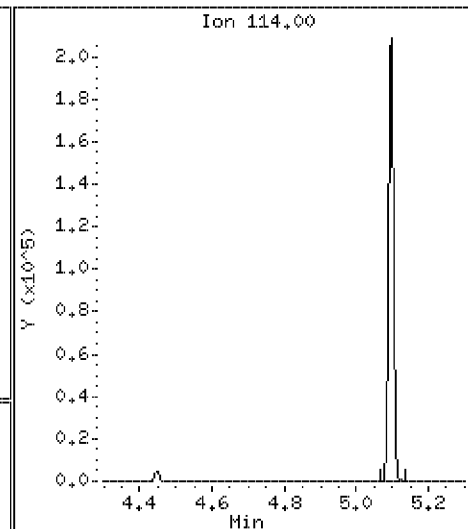
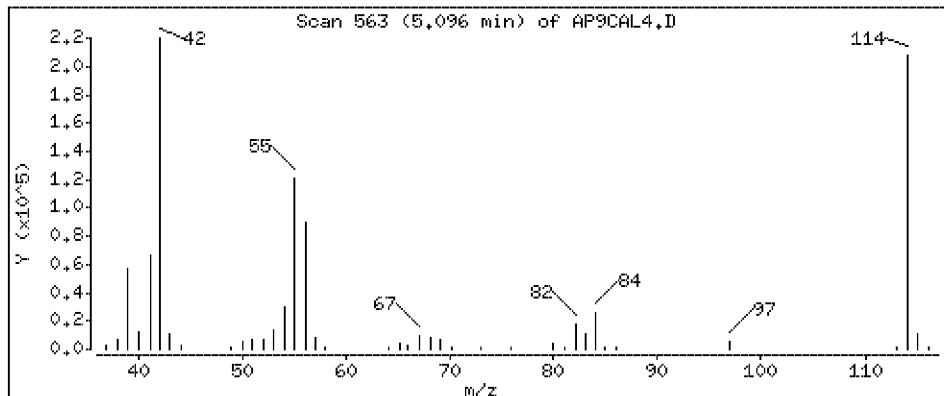
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

33 N-Nitrosopiperidine

Concentration: 47.3 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

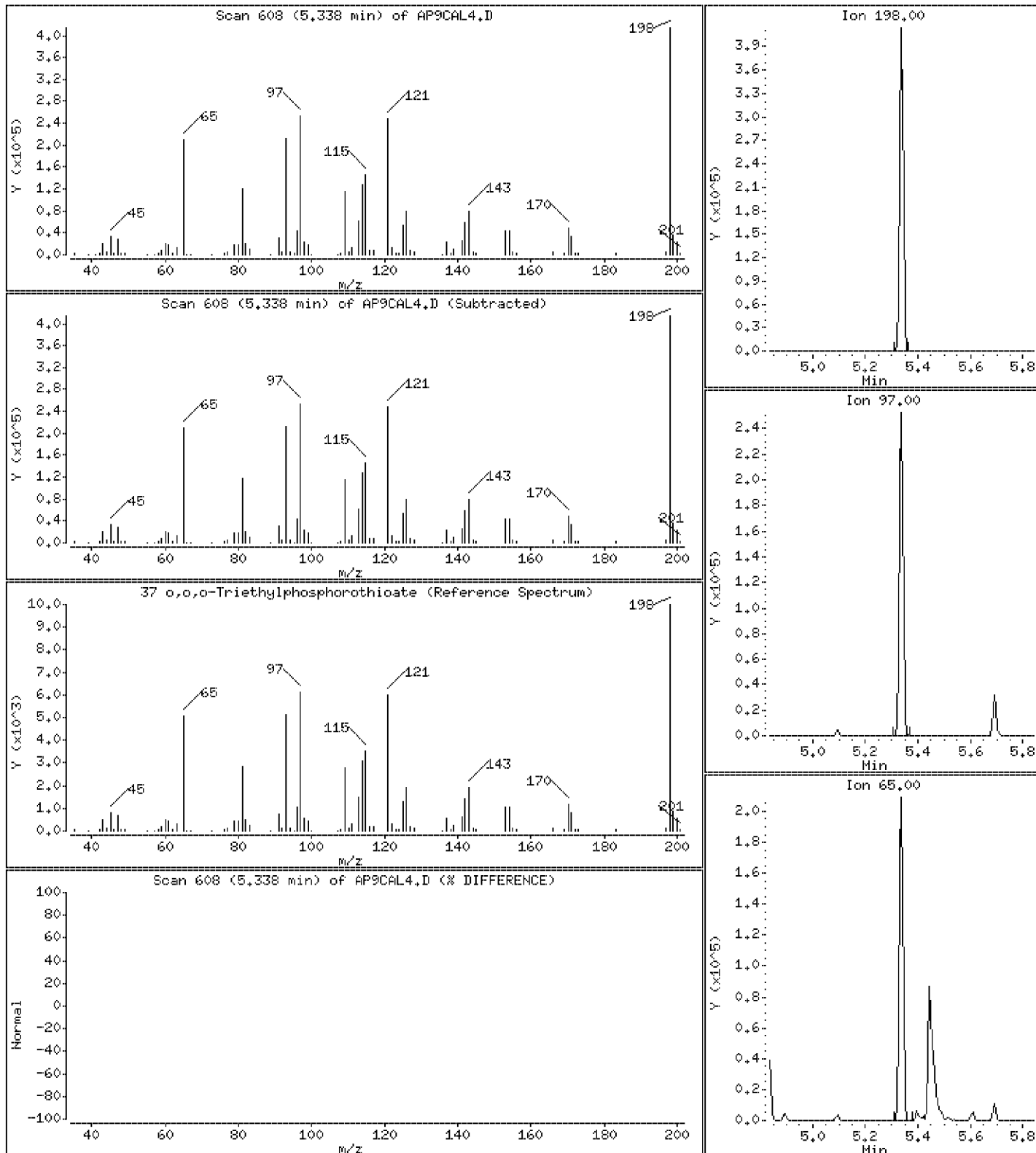
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

37 o,o,o-Triethylphosphorothioate

Concentration: 45.1 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

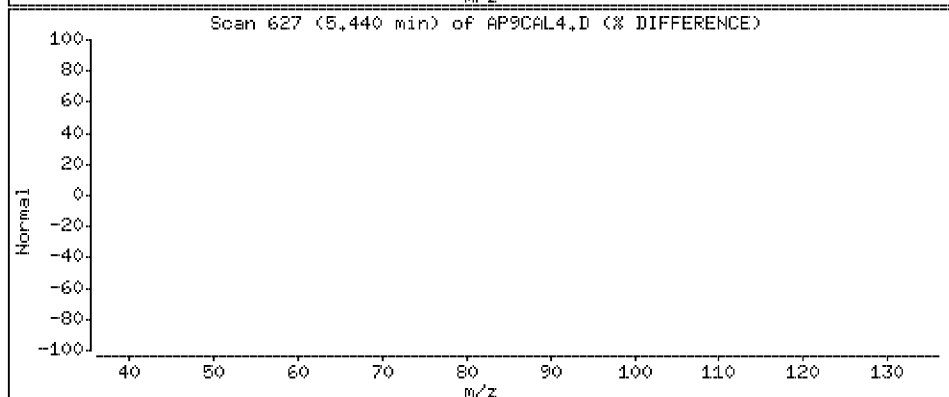
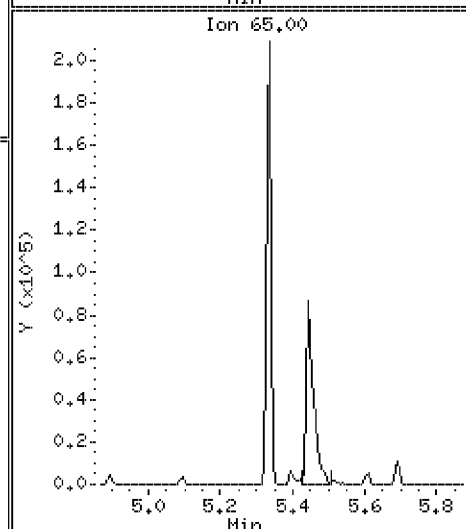
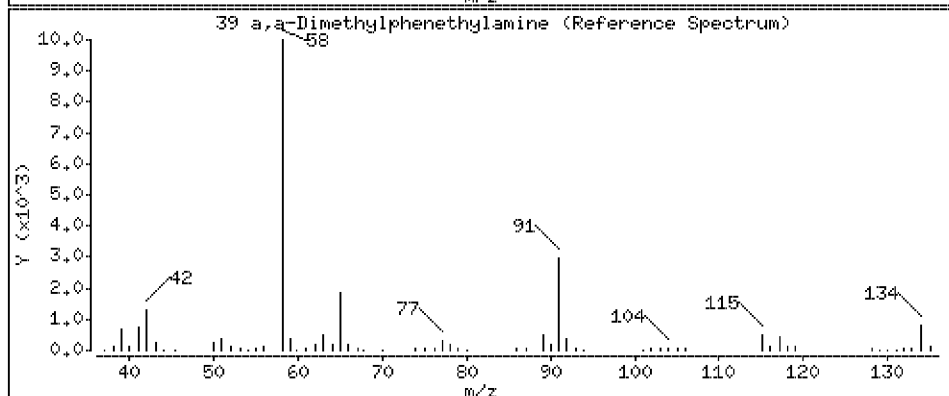
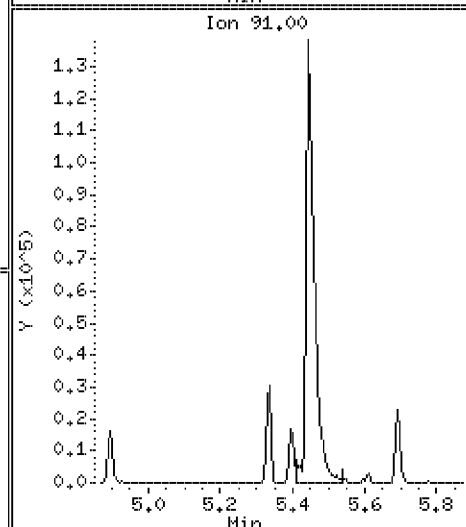
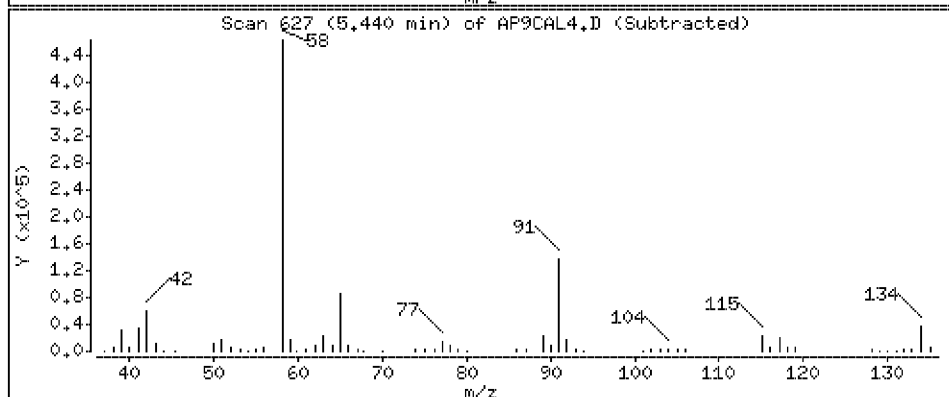
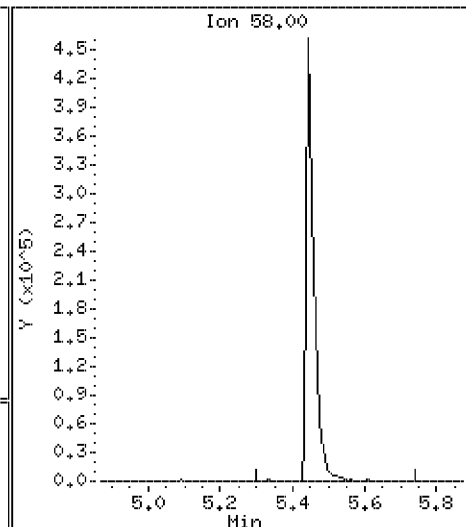
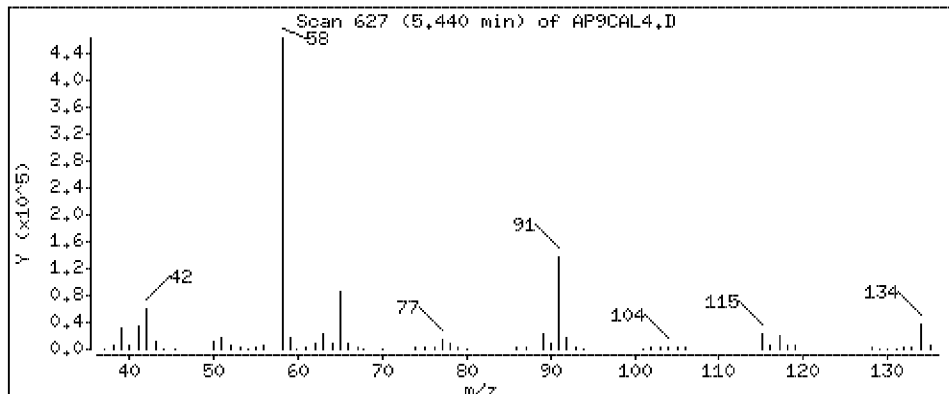
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

39 a,a-Dimethylphenethylamine

Concentration: 47.3 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

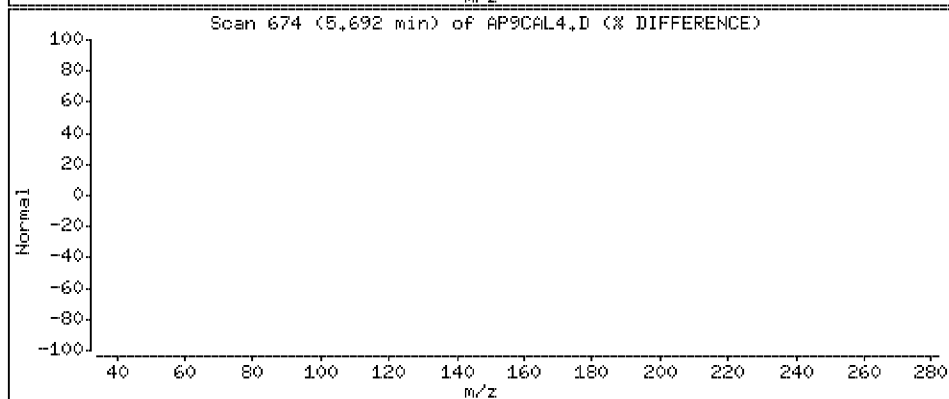
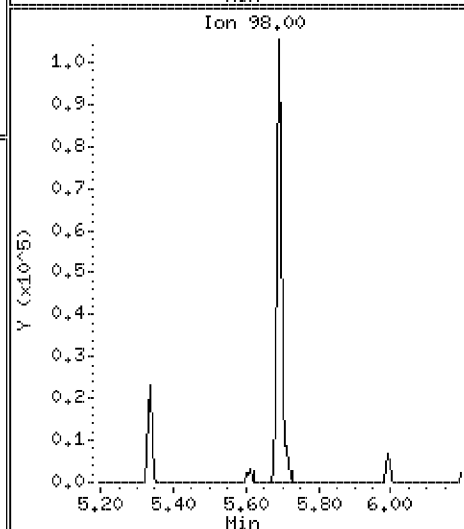
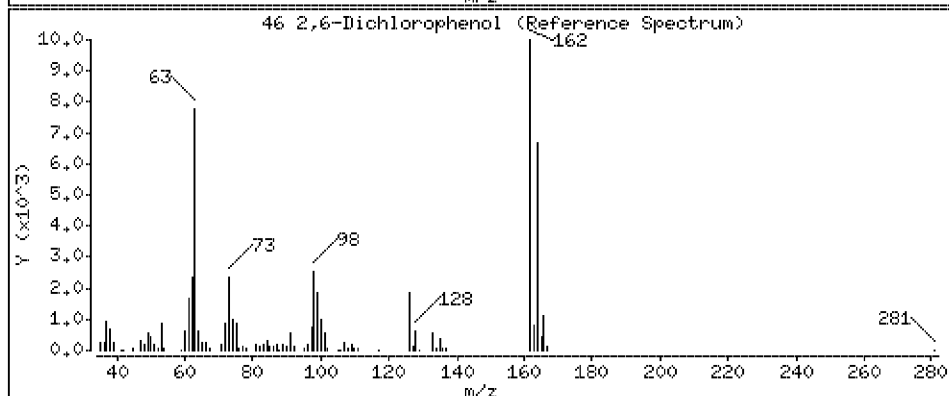
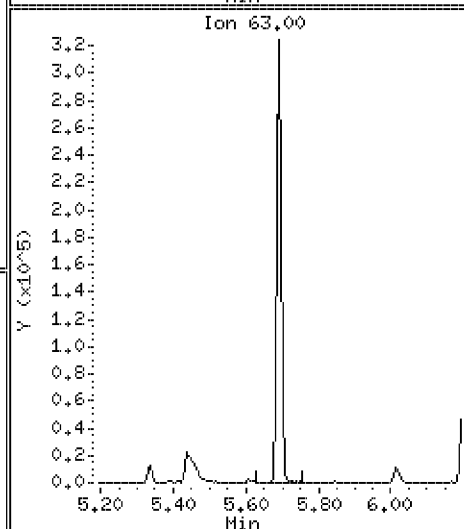
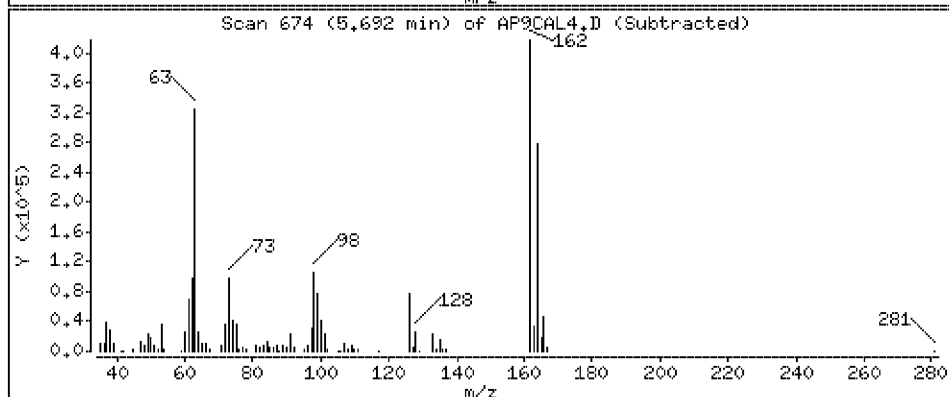
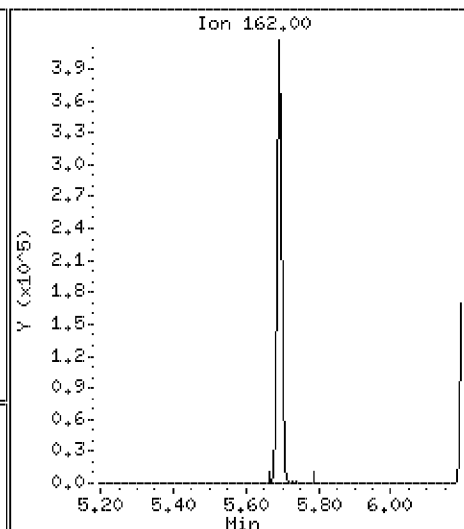
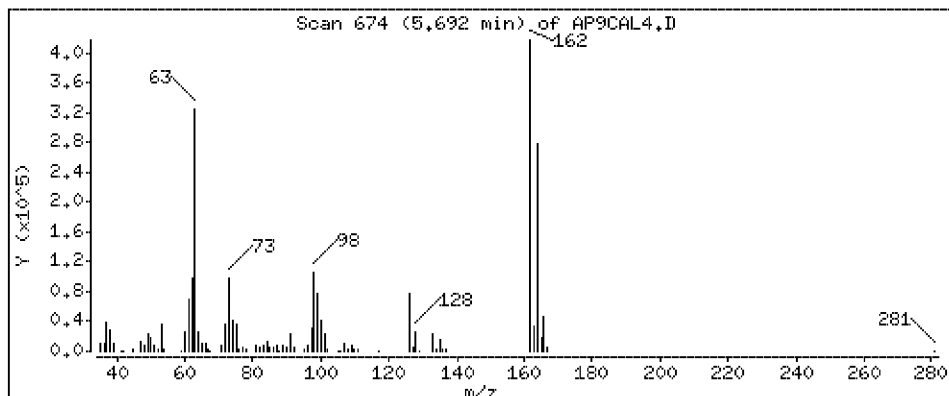
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

46 2,6-Dichlorophenol

Concentration: 46.1 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

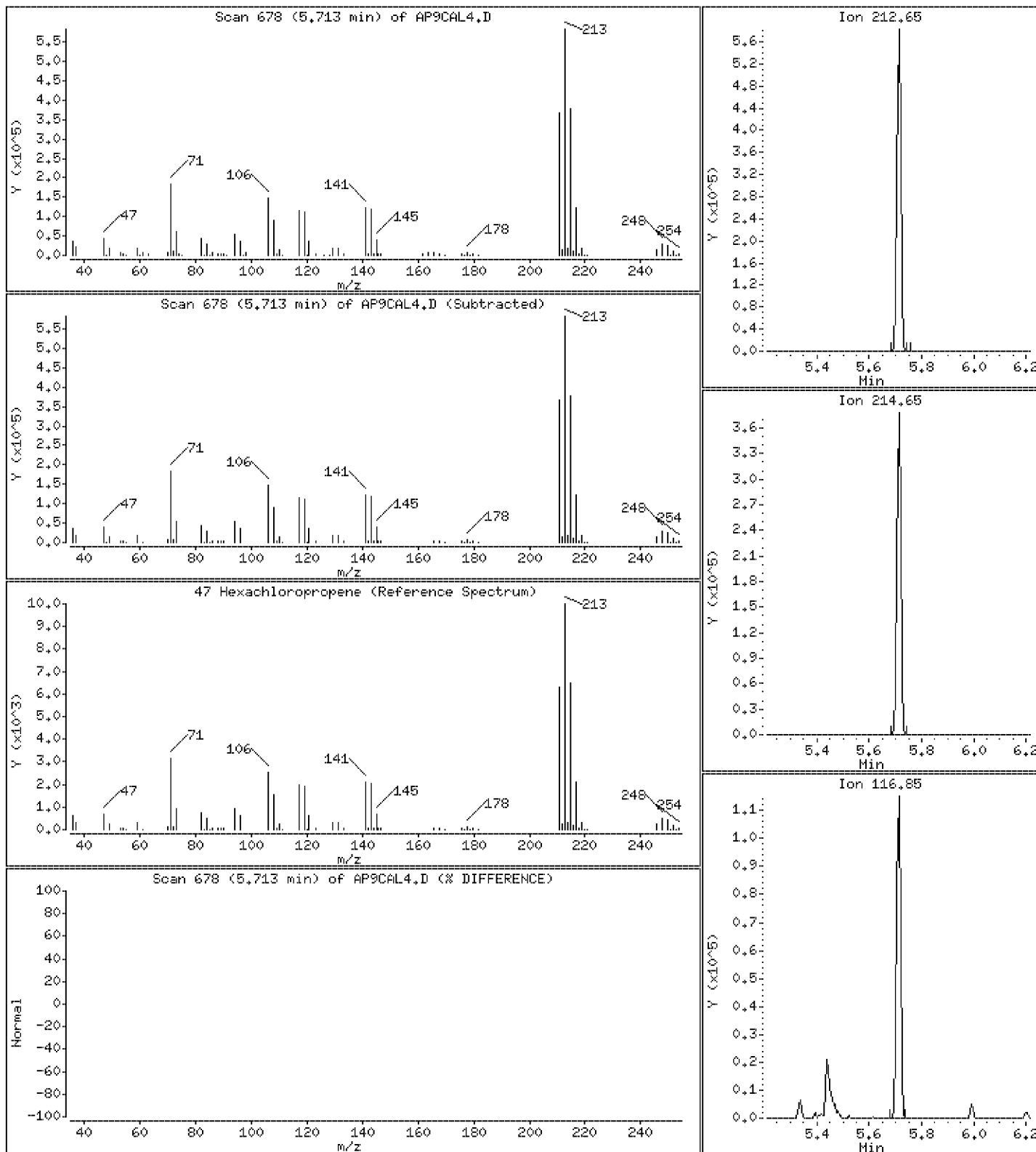
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

47 Hexachloropropene

Concentration: 45.3 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

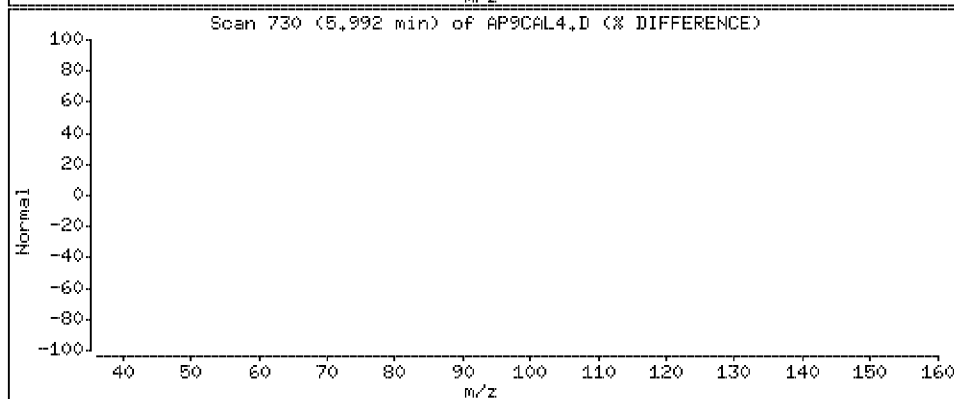
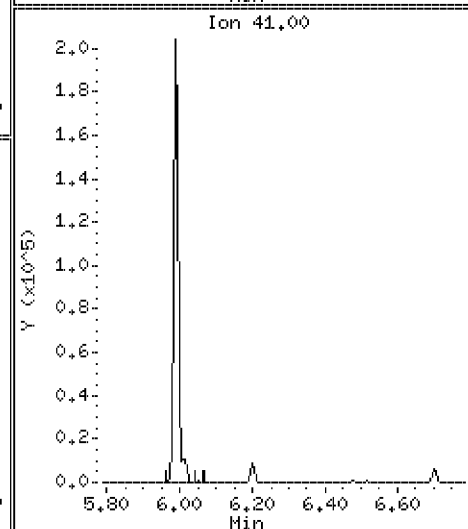
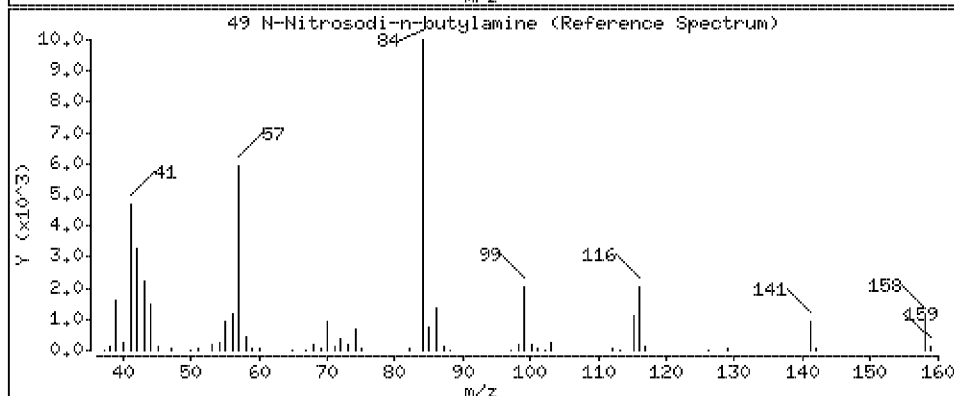
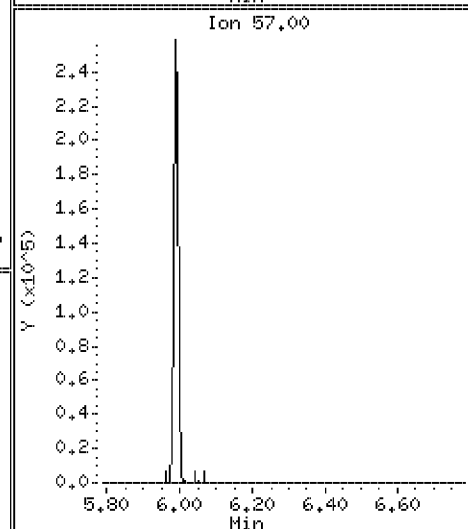
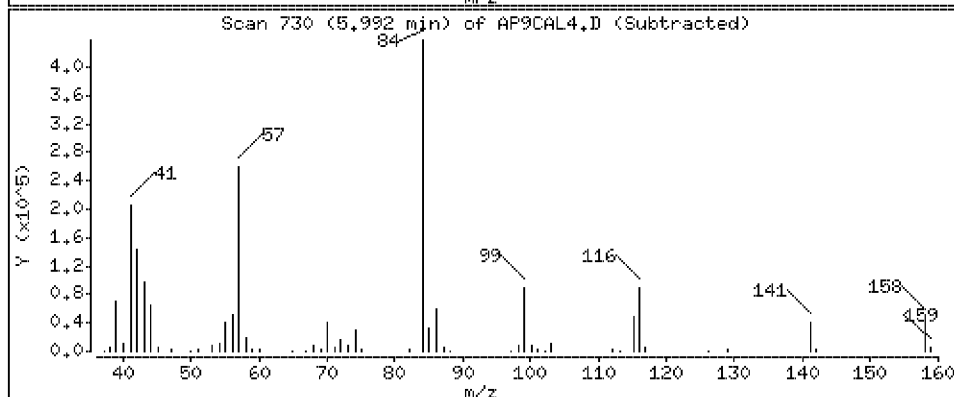
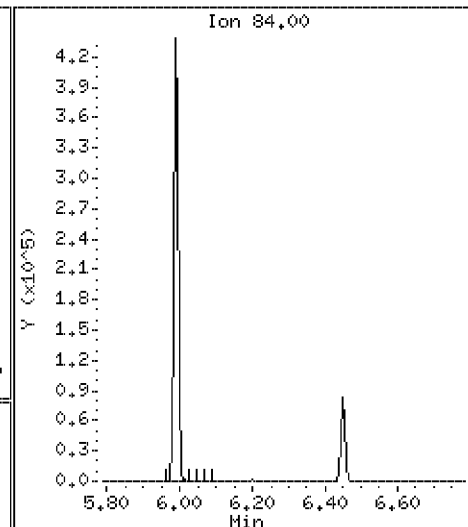
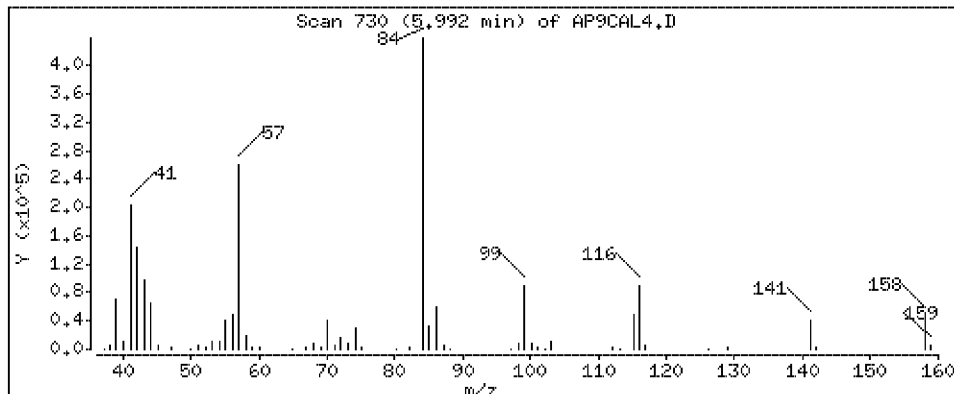
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

49 N-Nitrosodi-n-butylamine

Concentration: 46.1 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

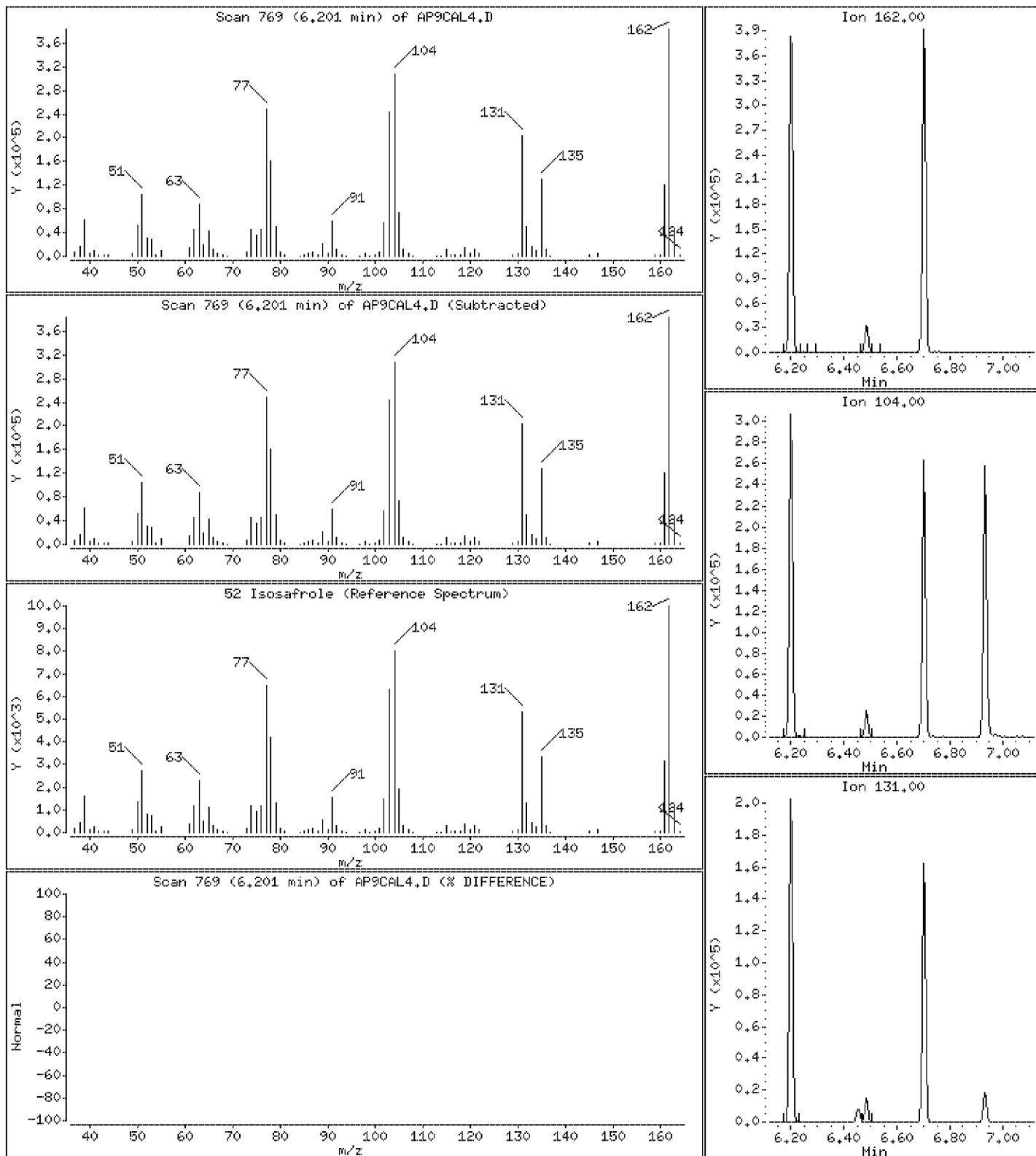
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

52 Isosafrole

Concentration: 44.9 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

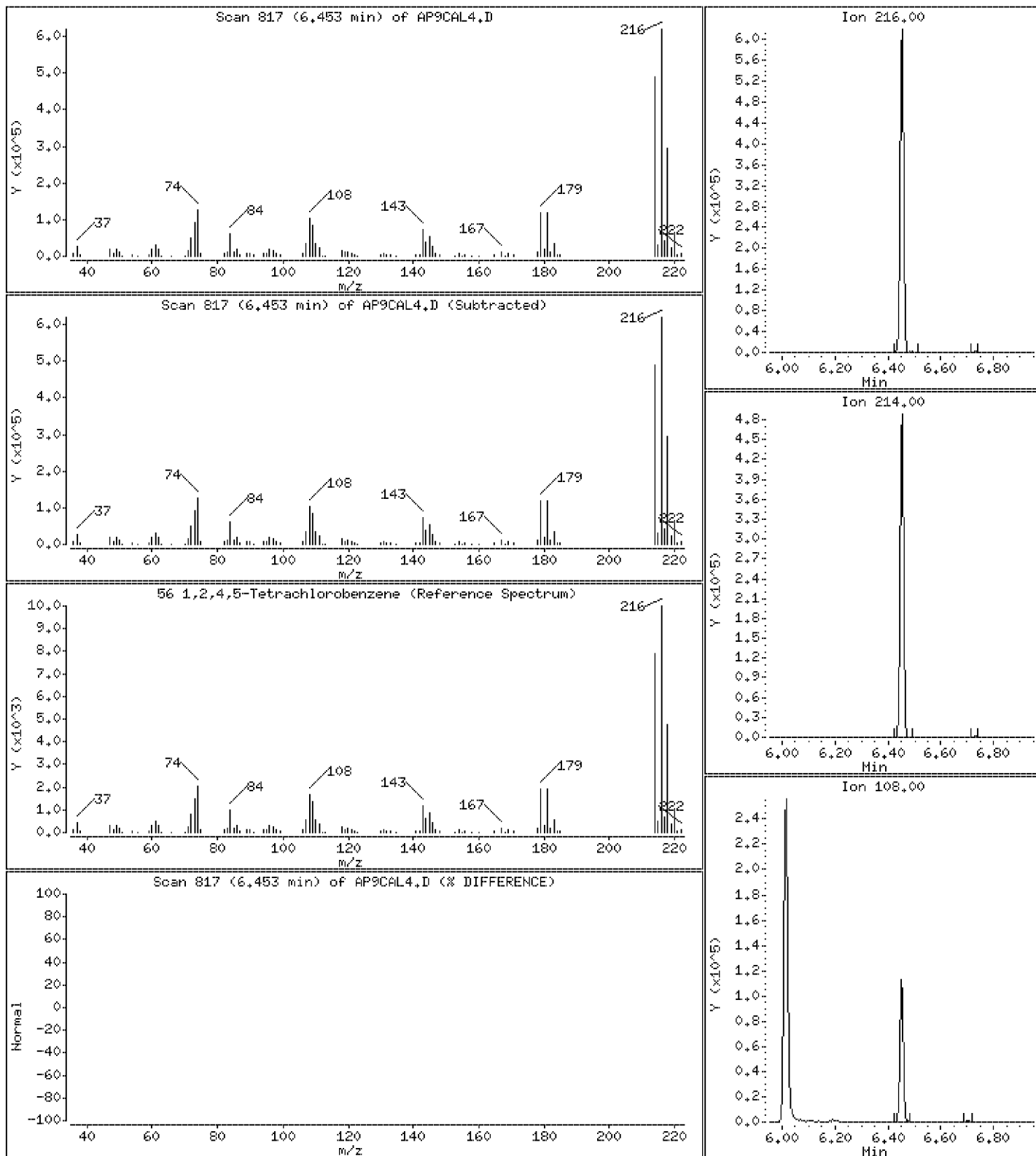
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

56 1,2,4,5-Tetrachlorobenzene

Concentration: 45.8 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

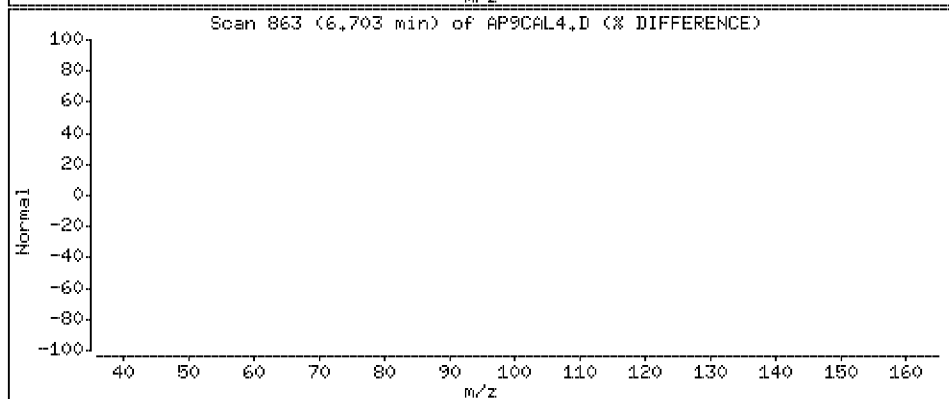
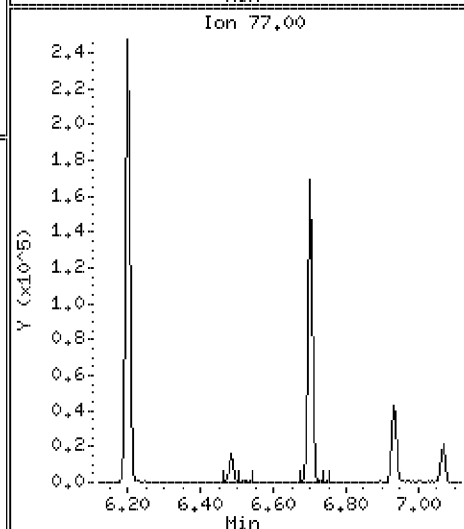
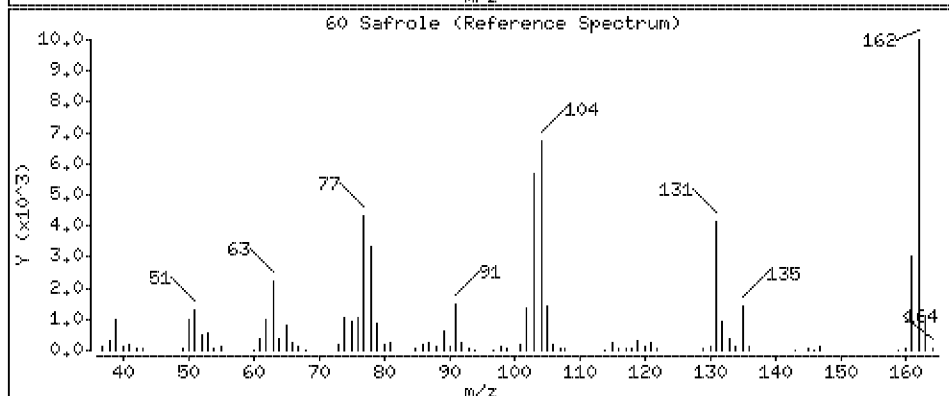
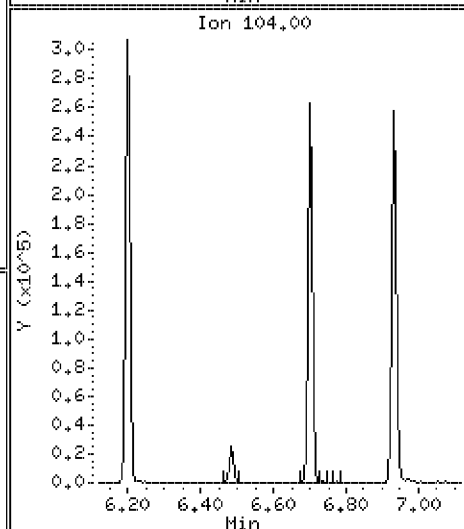
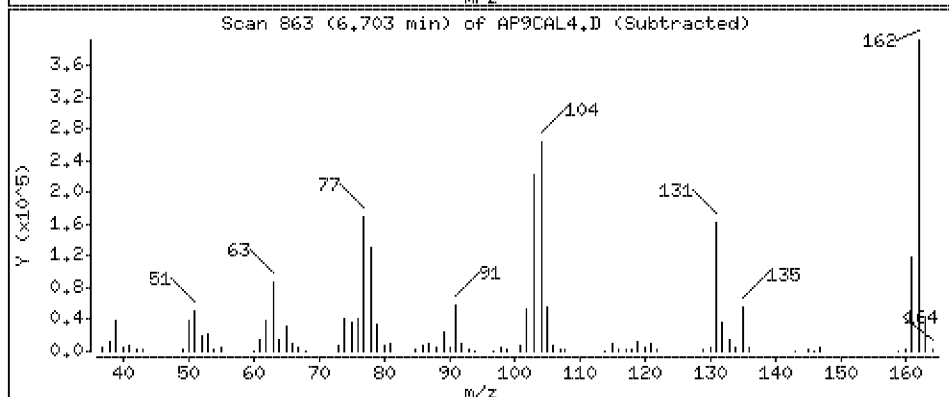
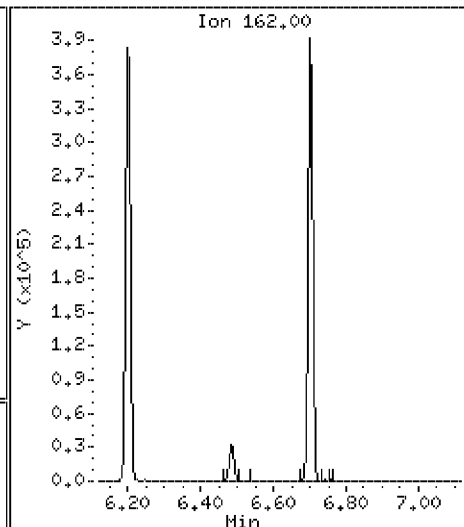
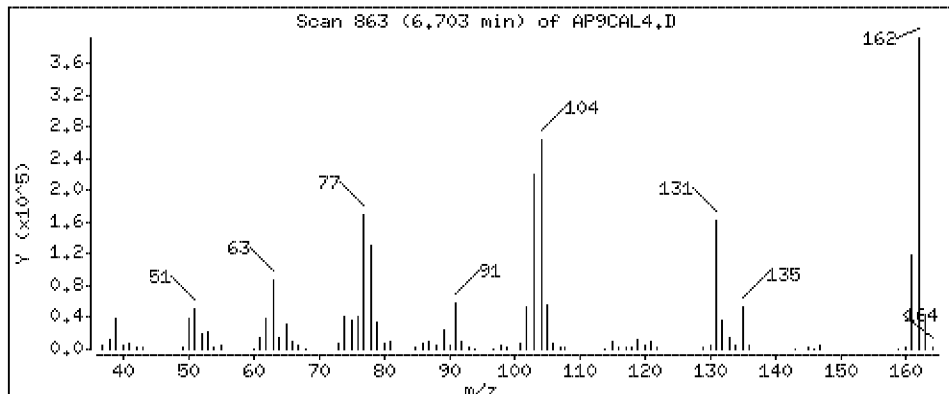
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

60 Safrole

Concentration: 46.8 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

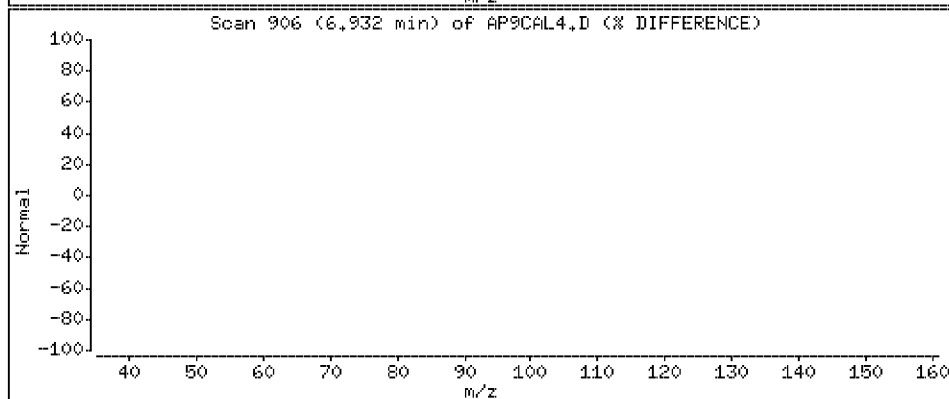
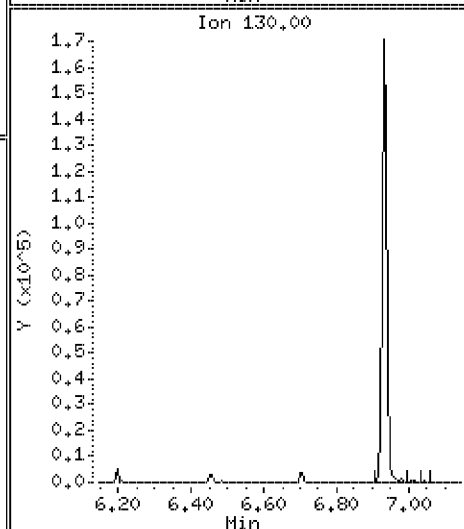
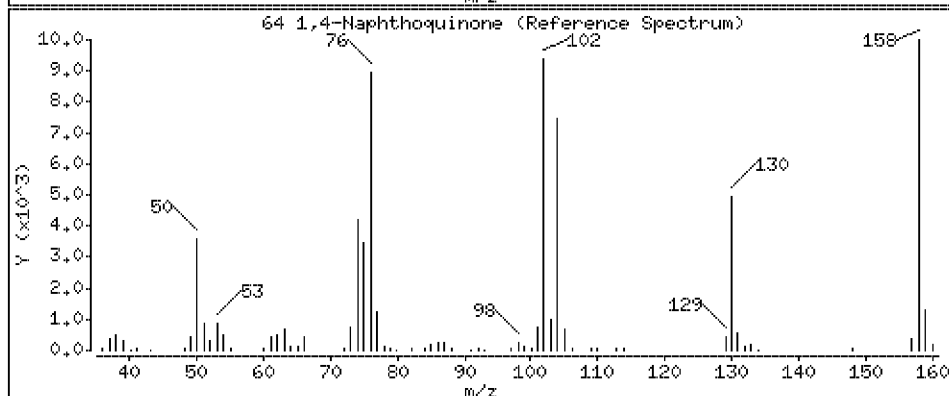
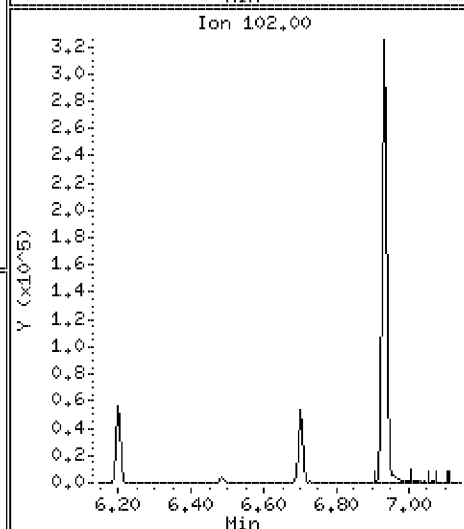
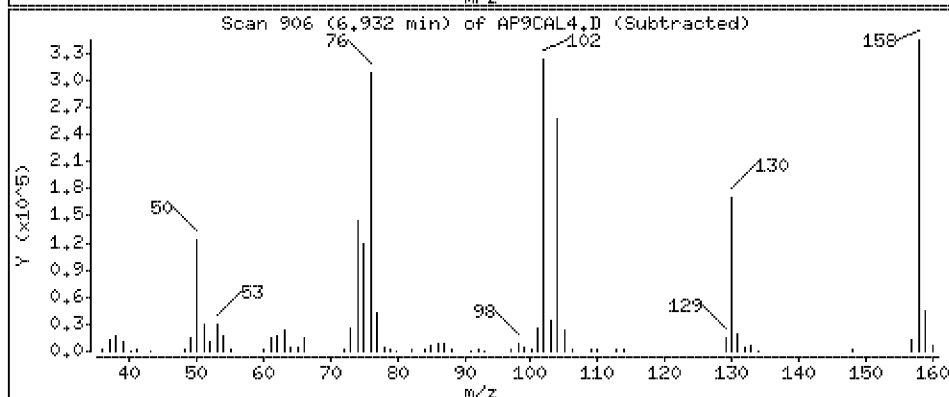
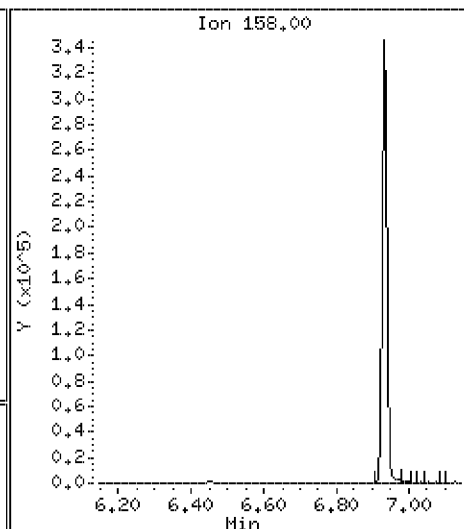
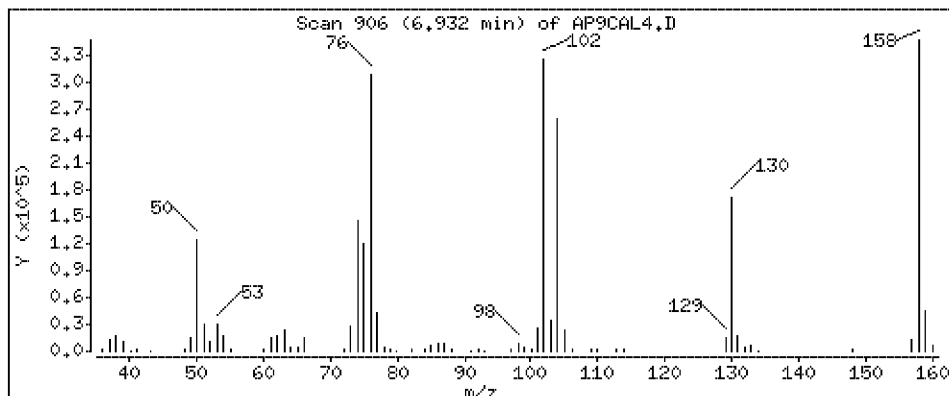
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

64 1,4-Naphthoquinone

Concentration: 46.3 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

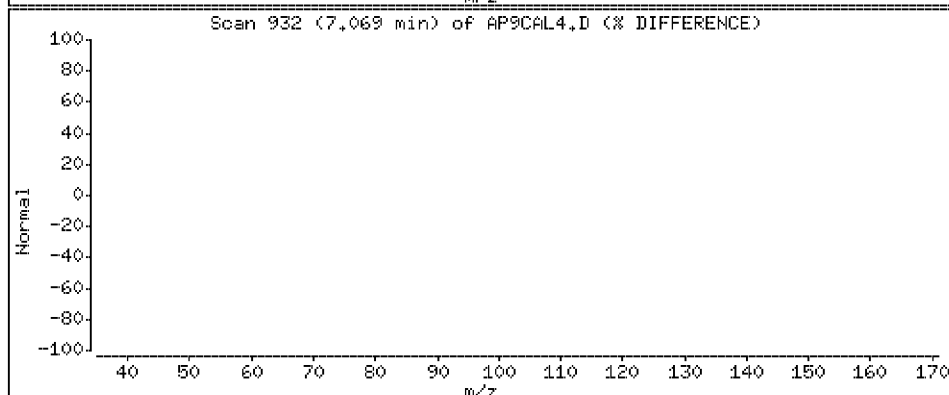
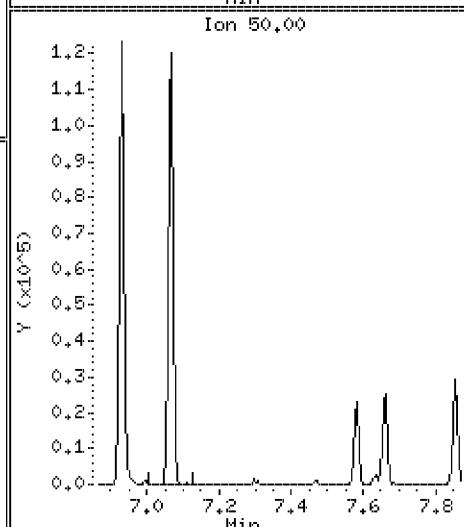
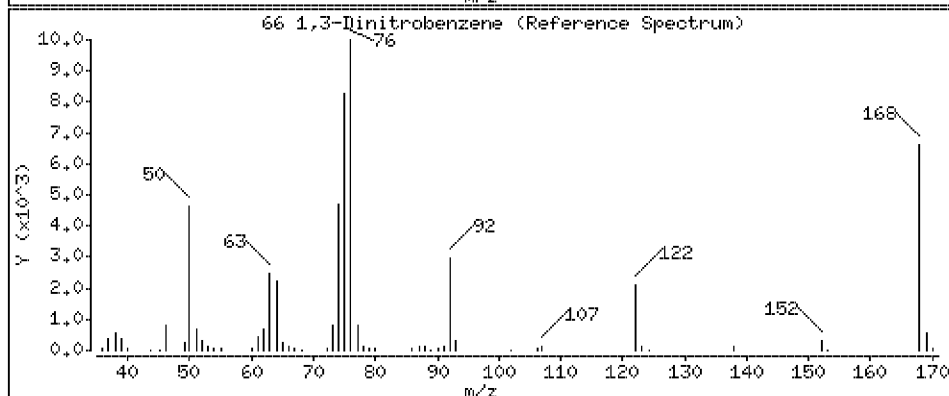
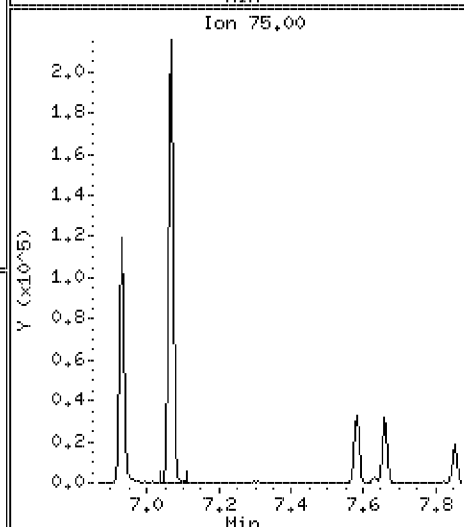
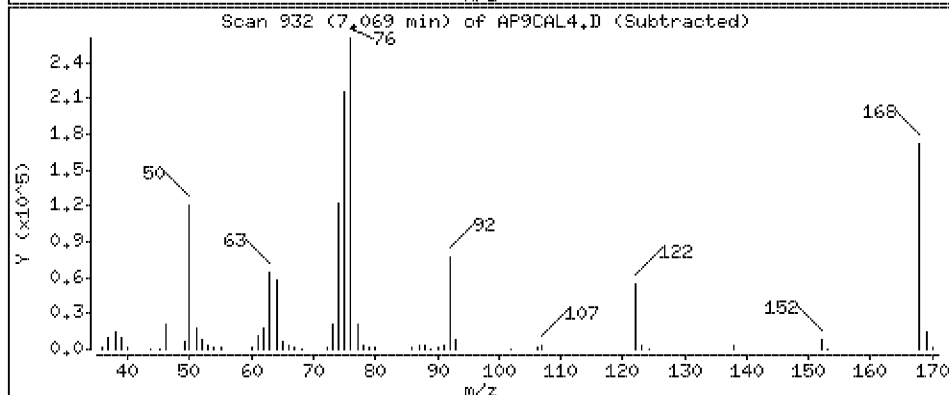
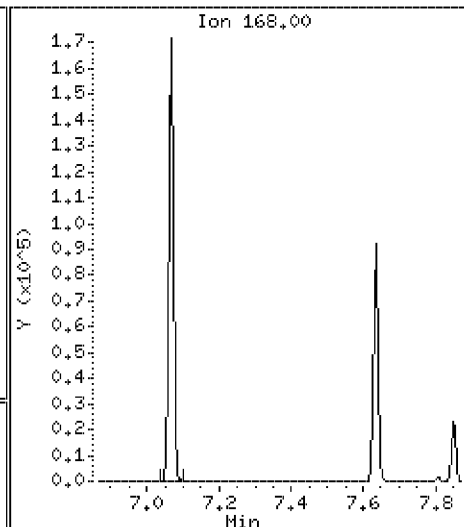
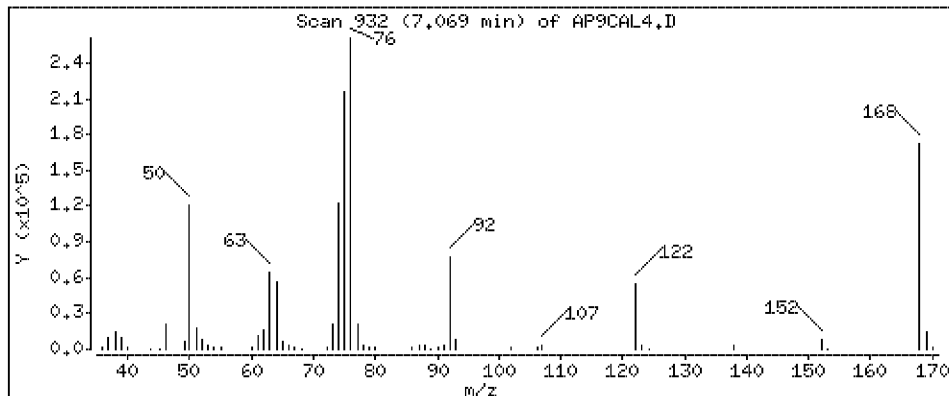
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

66 1,3-Dinitrobenzene

Concentration: 46.9 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

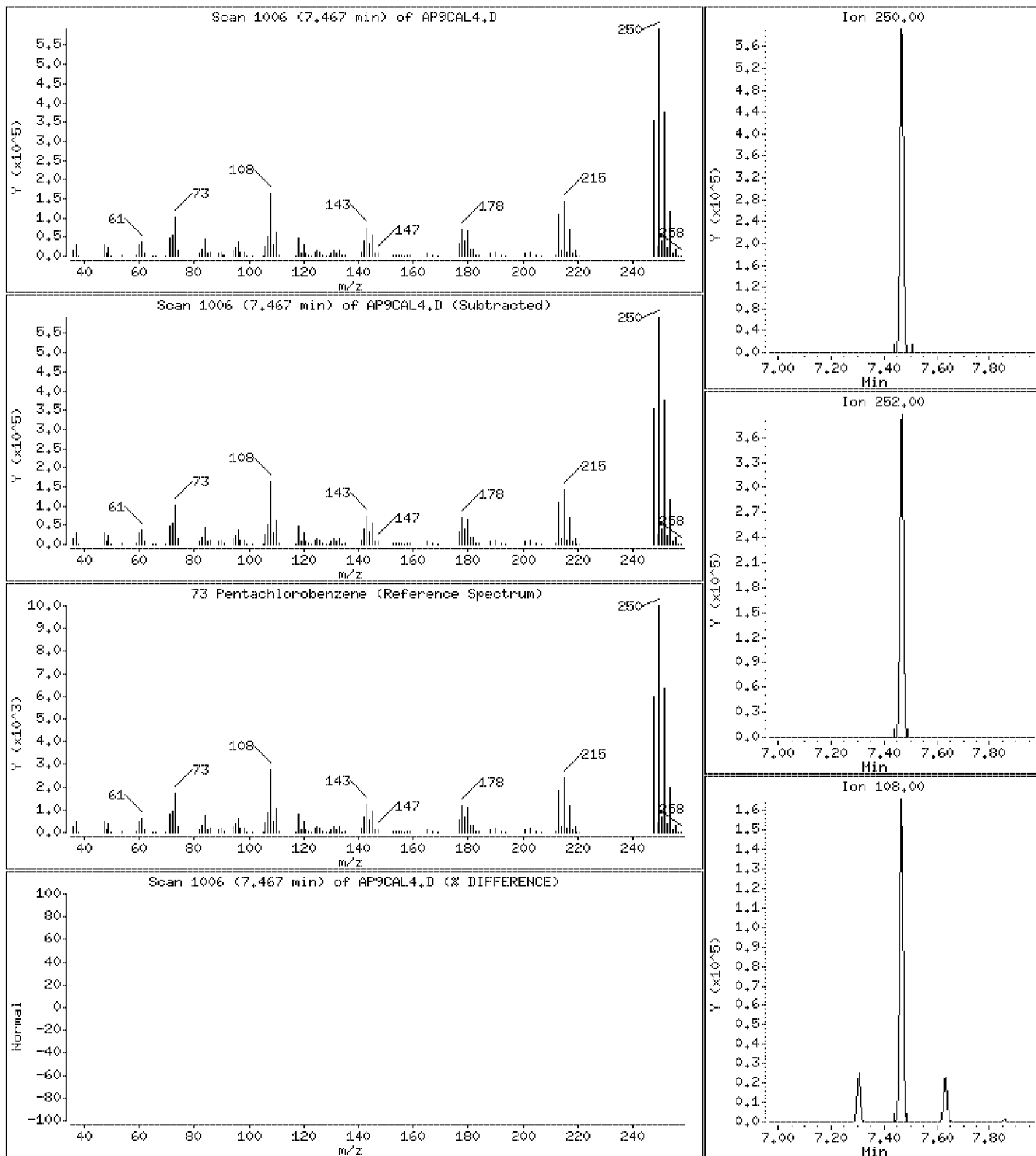
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

73 Pentachlorobenzene

Concentration: 45.5 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

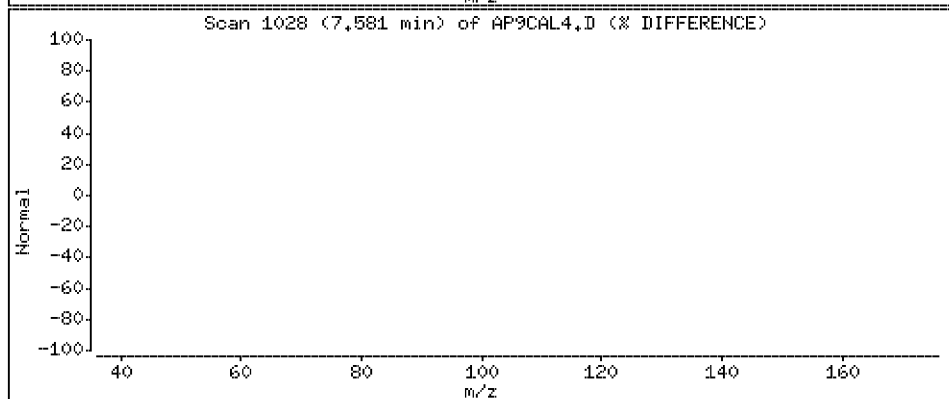
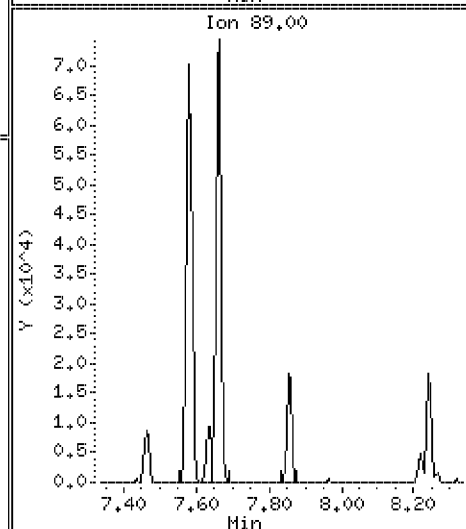
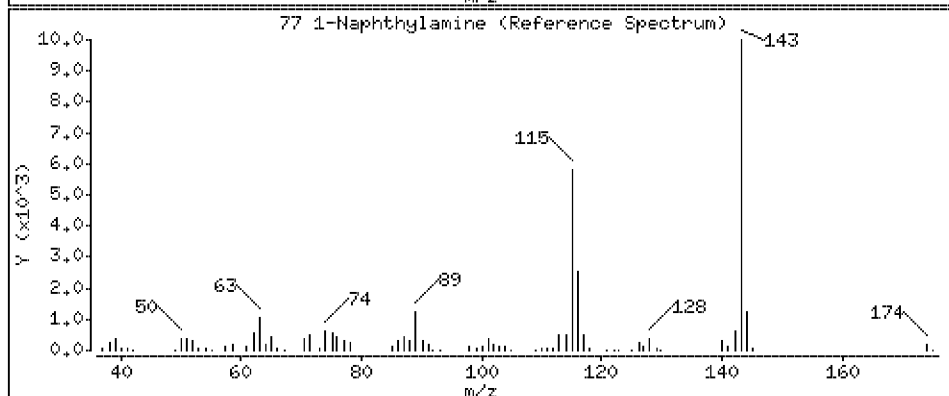
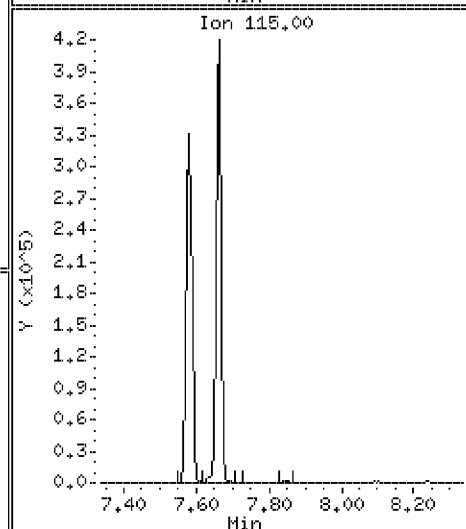
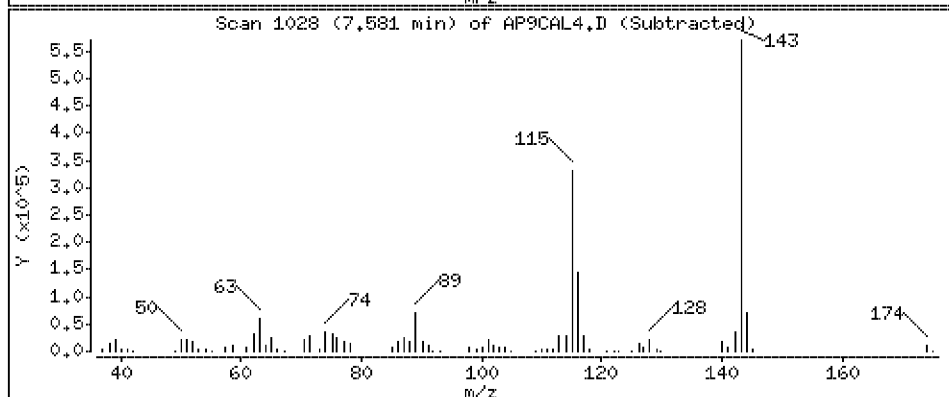
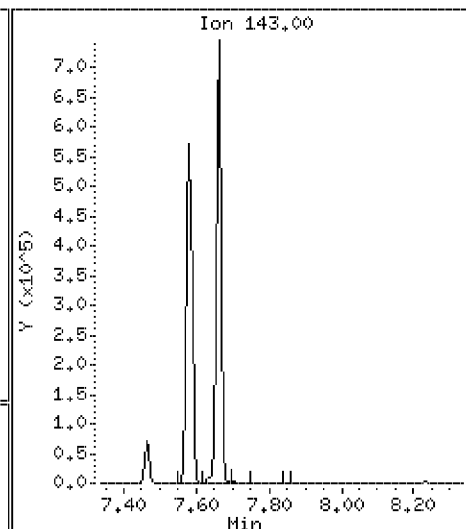
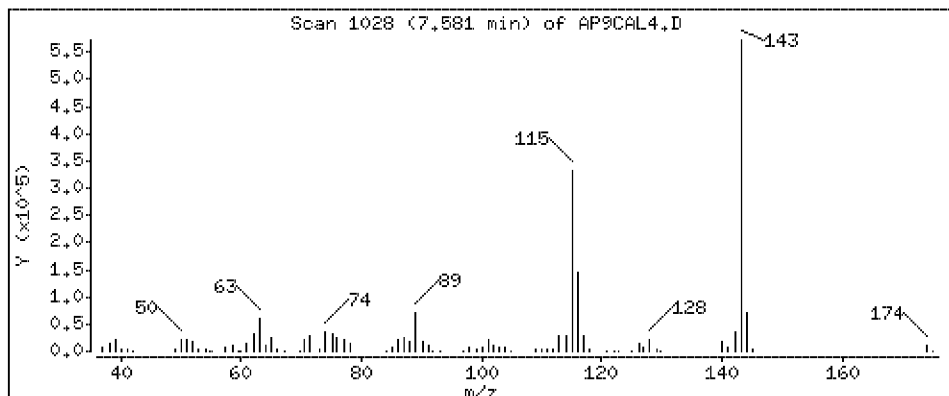
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

77 1-Naphthylamine

Concentration: 45.6 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

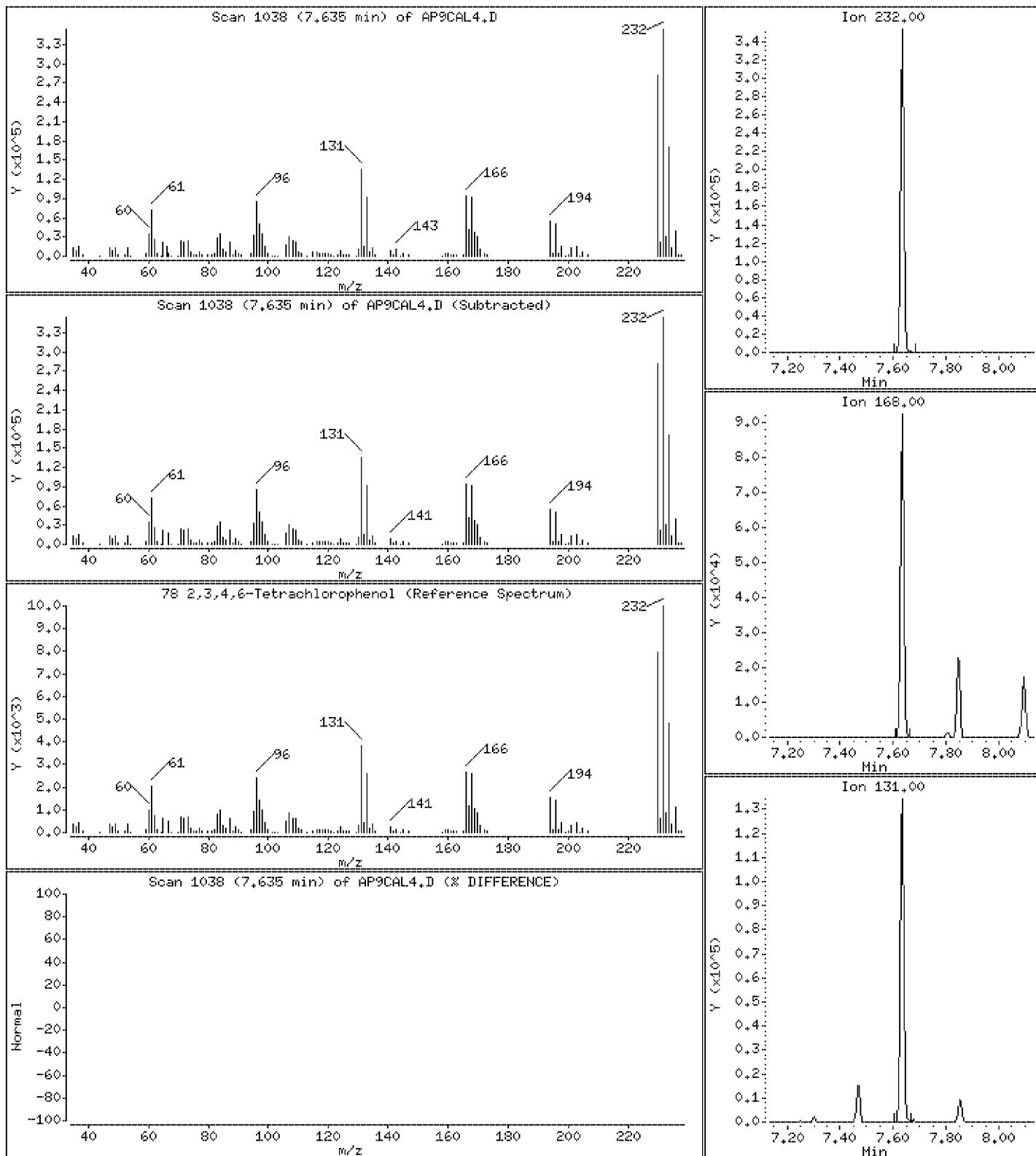
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

78 2,3,4,6-Tetrachlorophenol

Concentration: 46.7 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

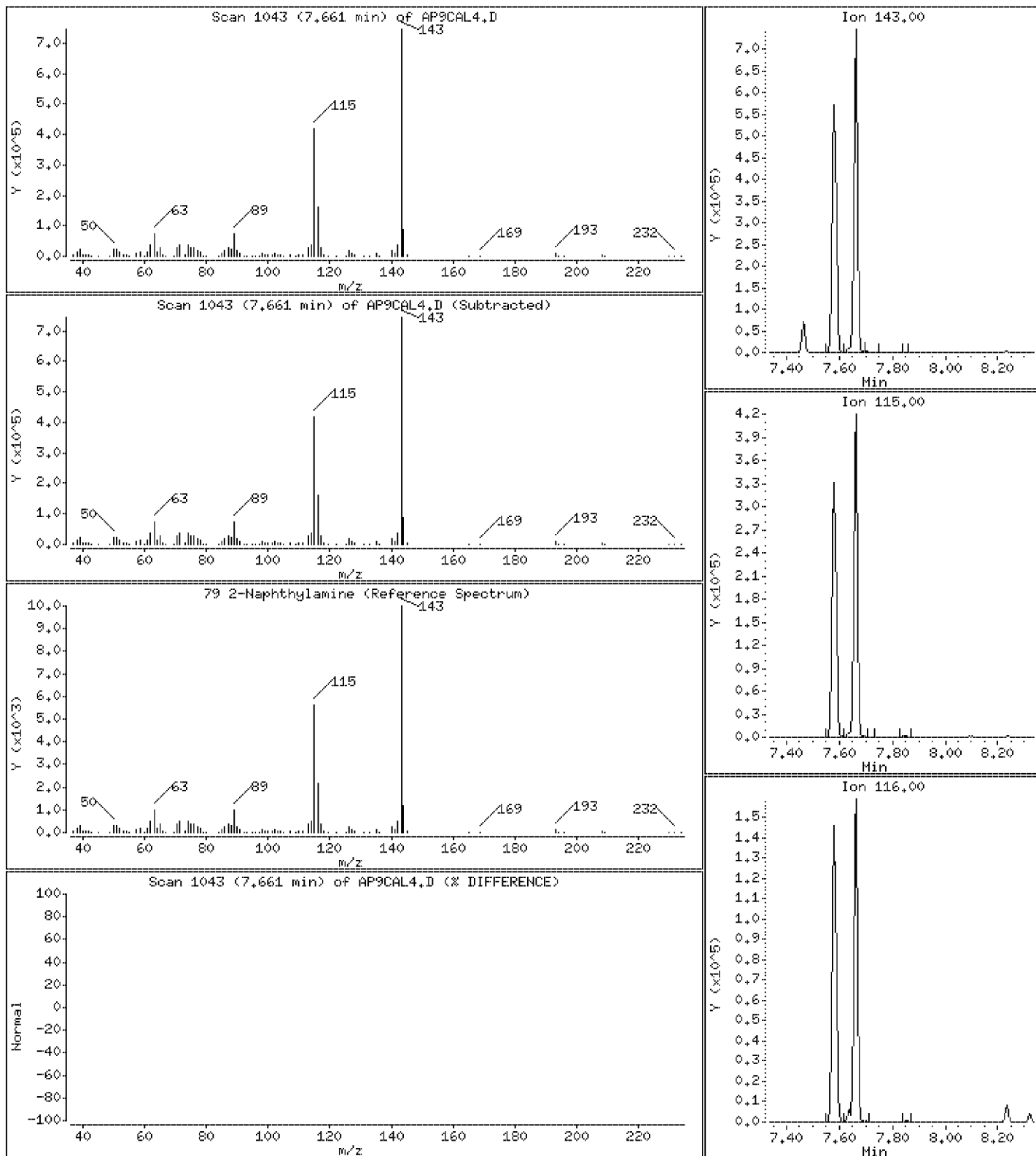
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

79 2-Naphthylamine

Concentration: 45.8 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

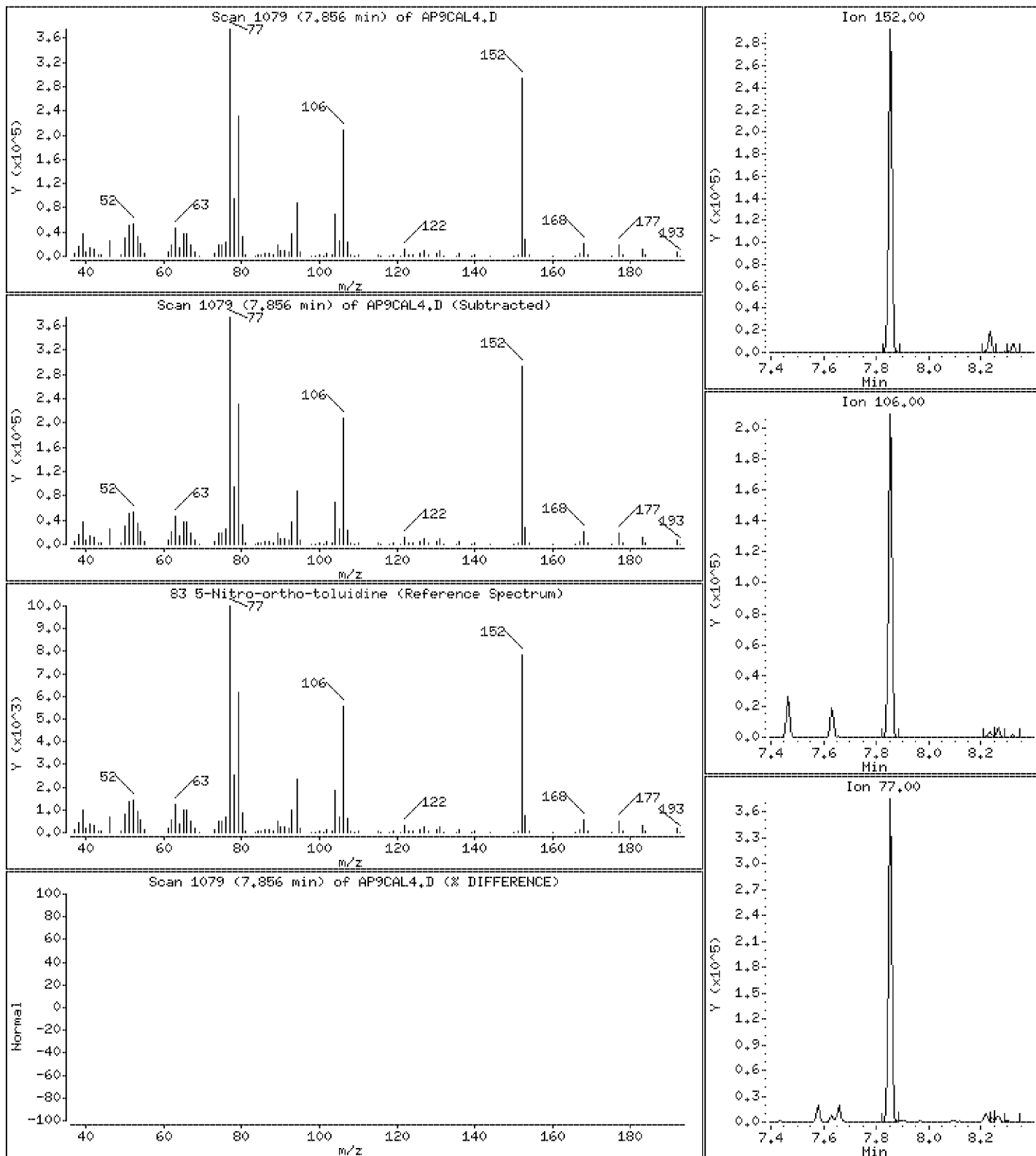
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

83 5-Nitro-ortho-toluidine

Concentration: 46.4 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

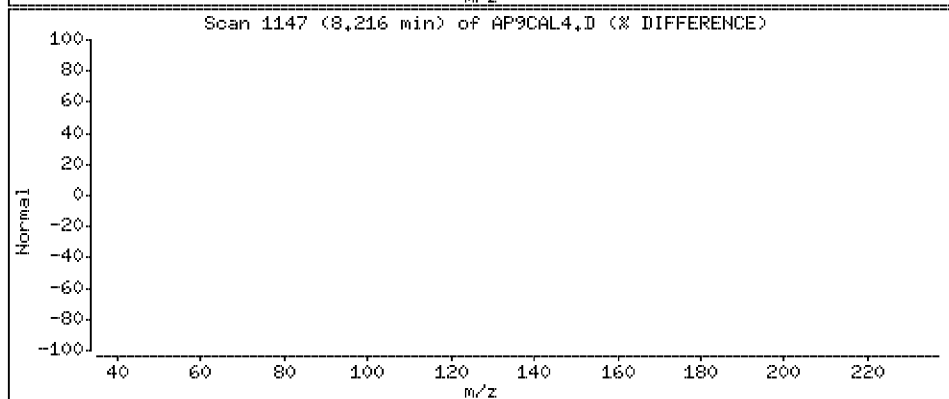
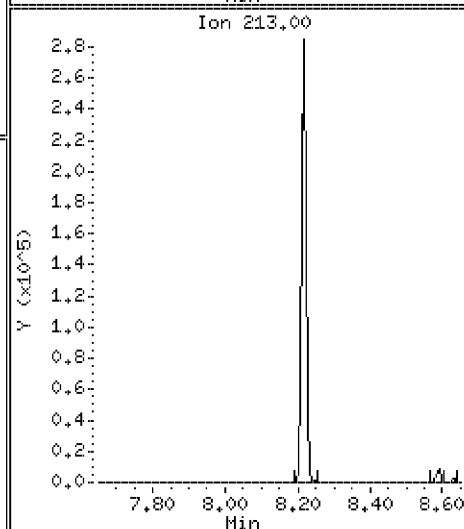
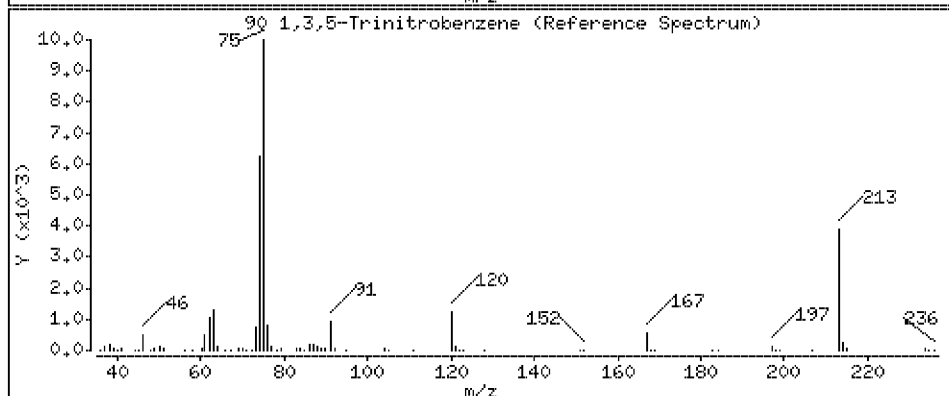
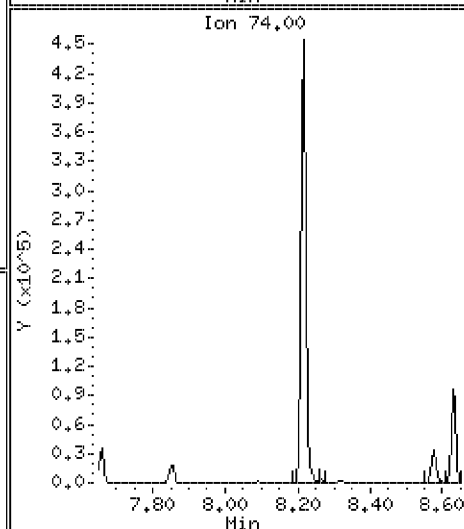
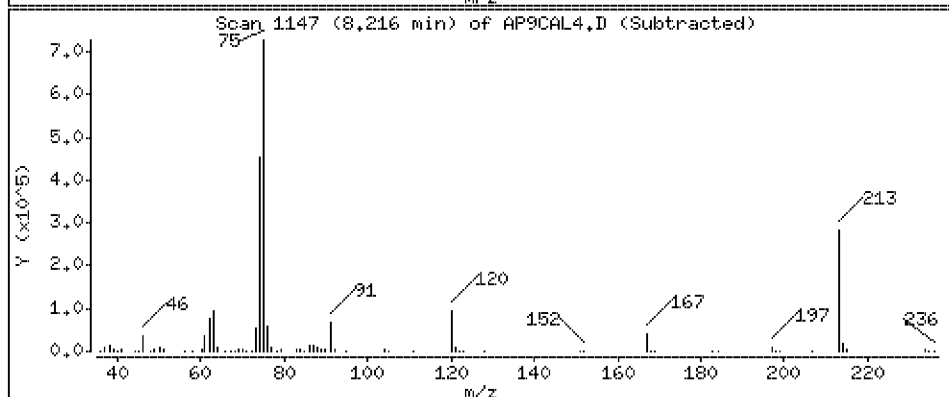
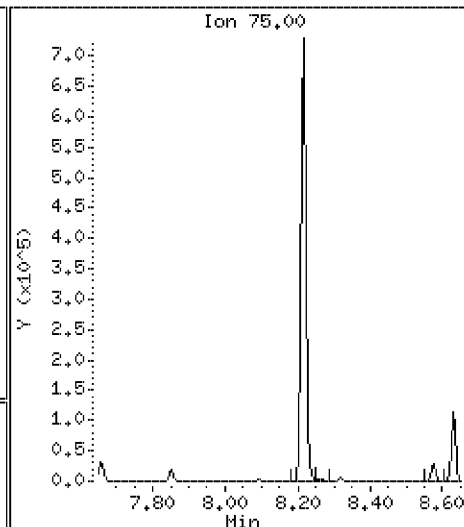
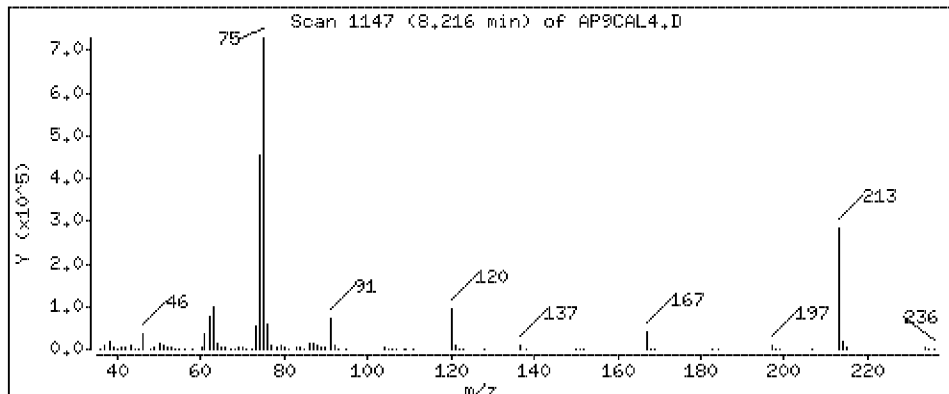
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

90 1,3,5-Trinitrobenzene

Concentration: 43.8 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

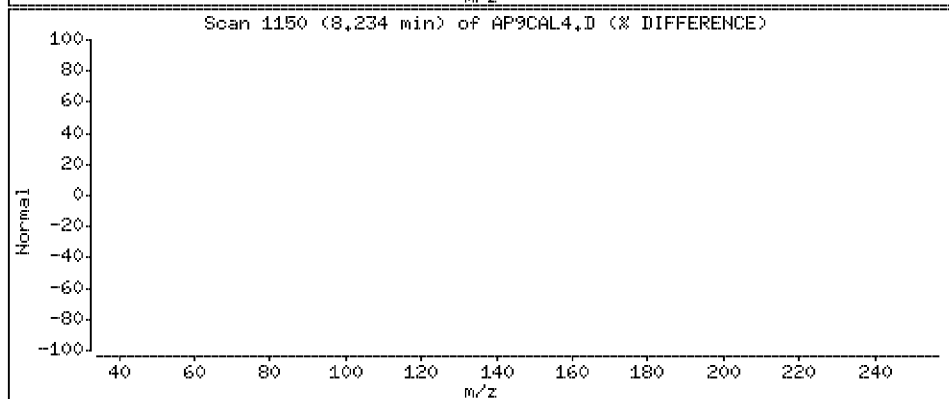
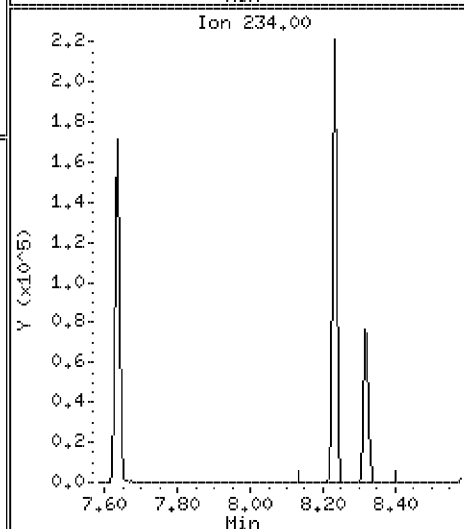
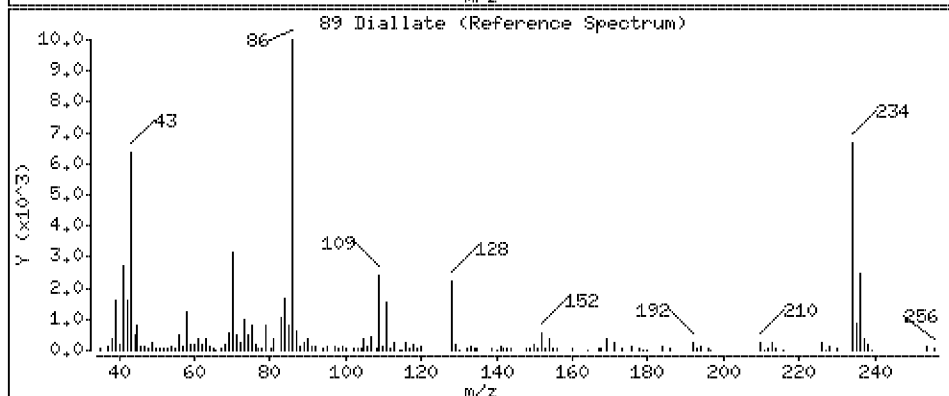
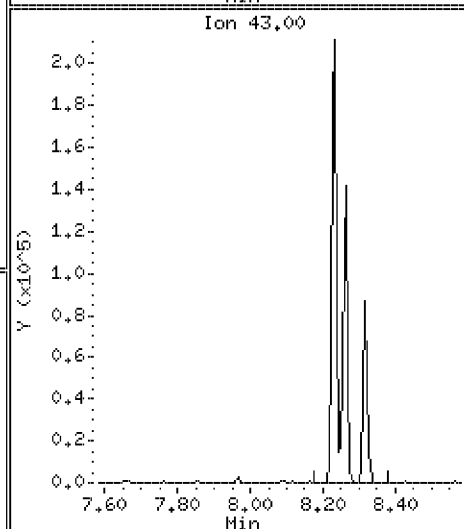
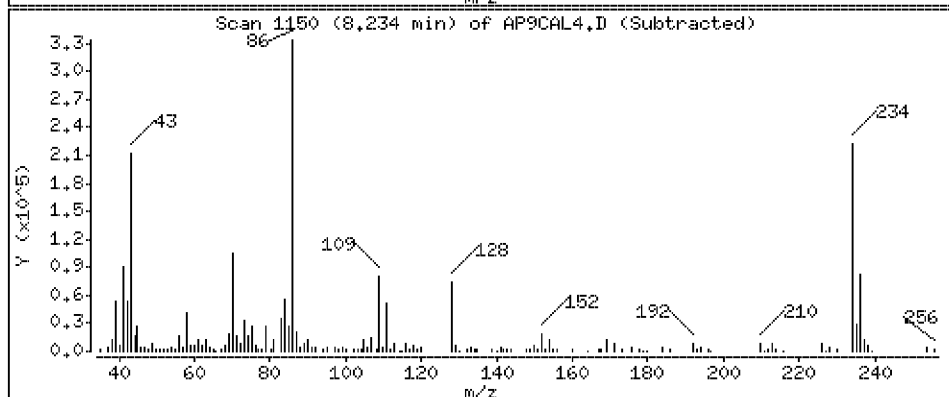
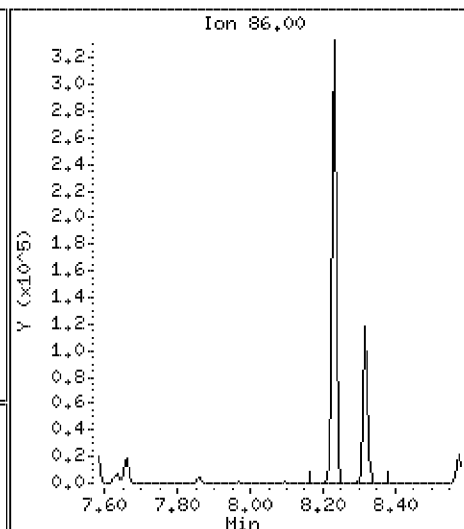
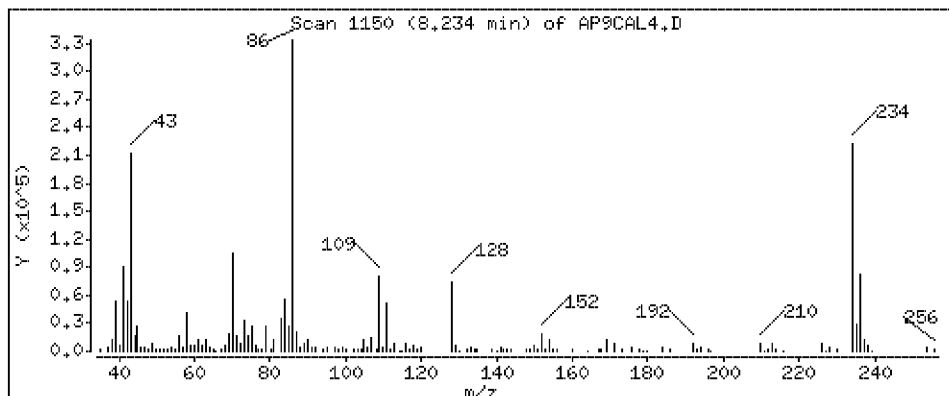
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

89 Diallate

Concentration: 45.2 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

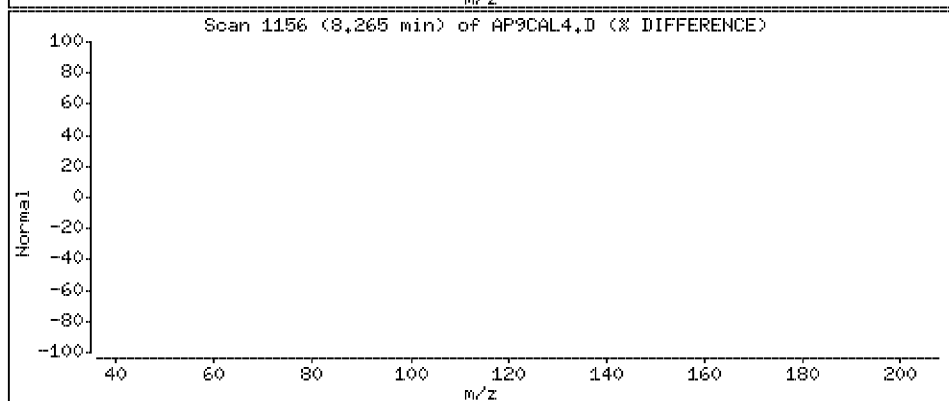
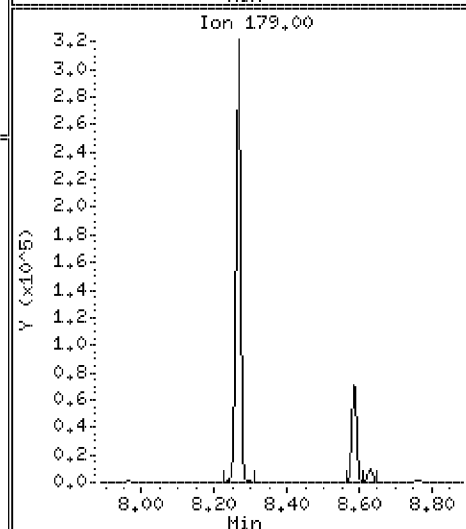
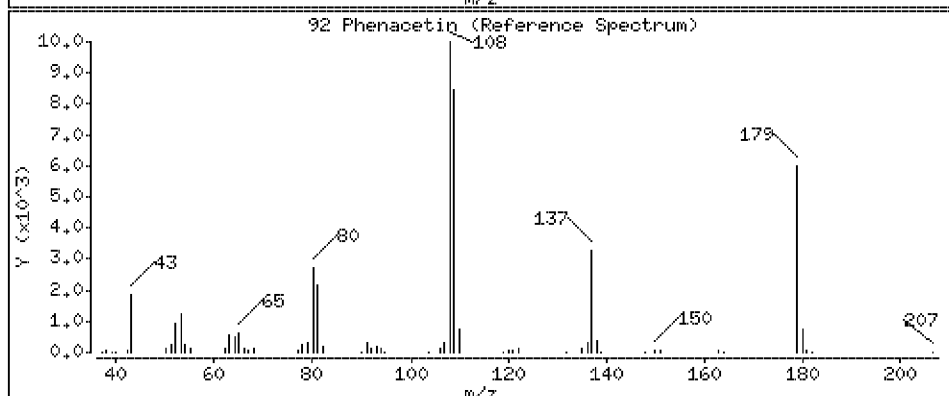
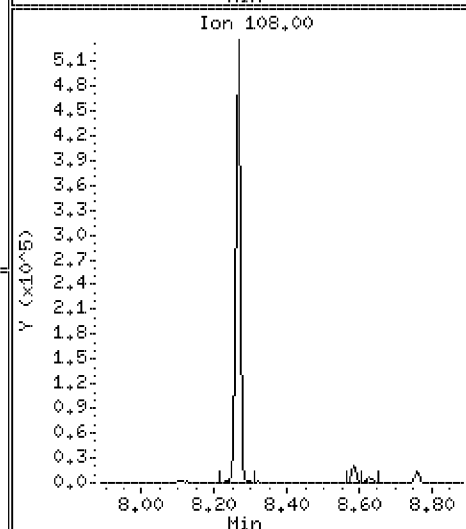
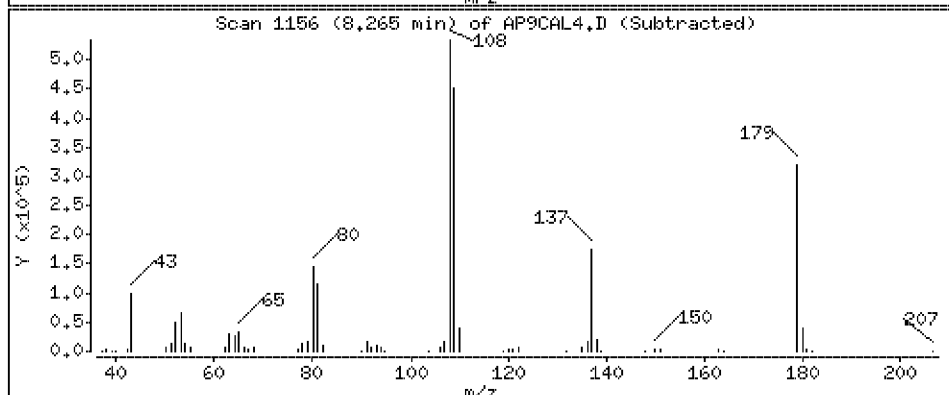
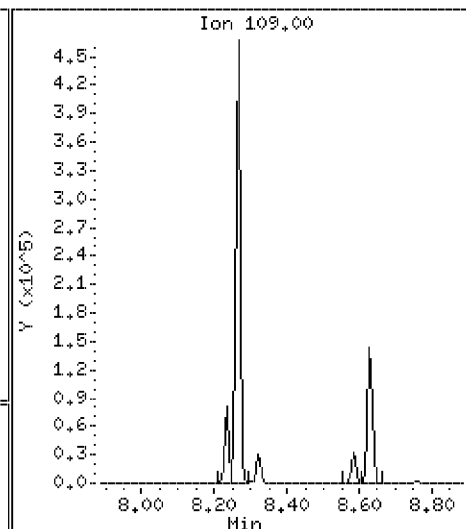
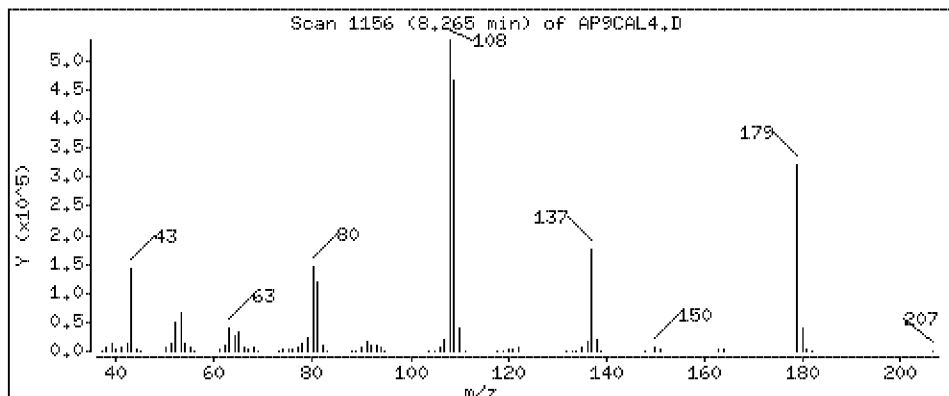
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

92 Phenacetin

Concentration: 43.5 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

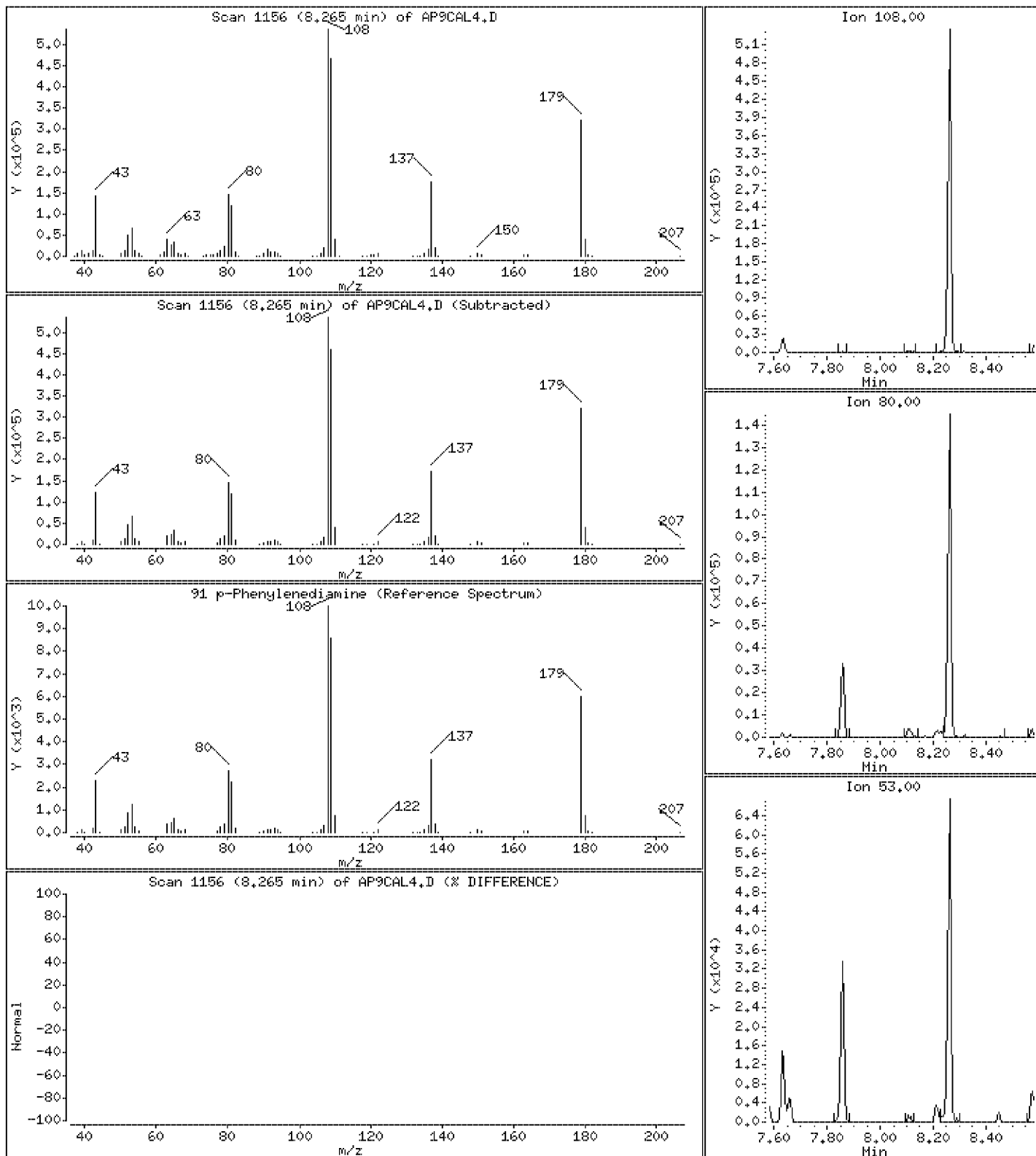
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

91 p-Phenylenediamine

Concentration: 46.1 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

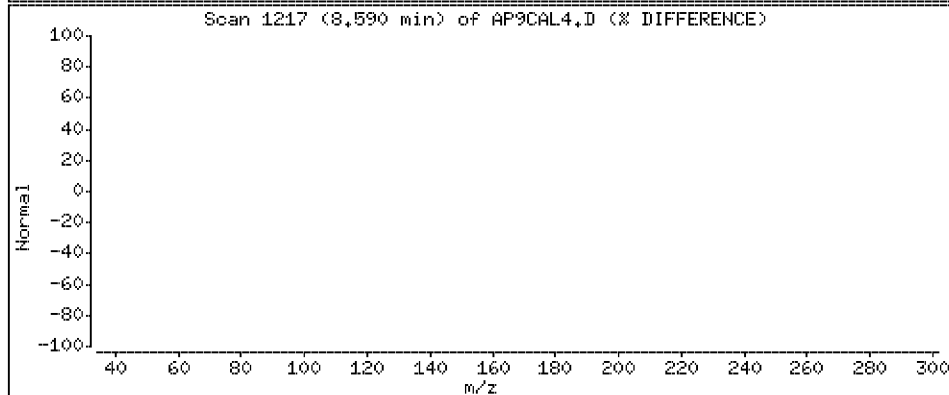
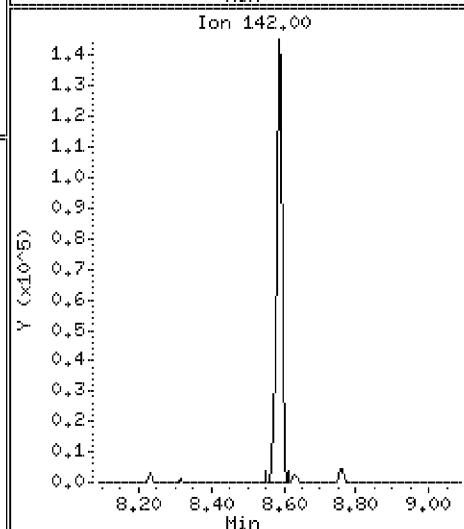
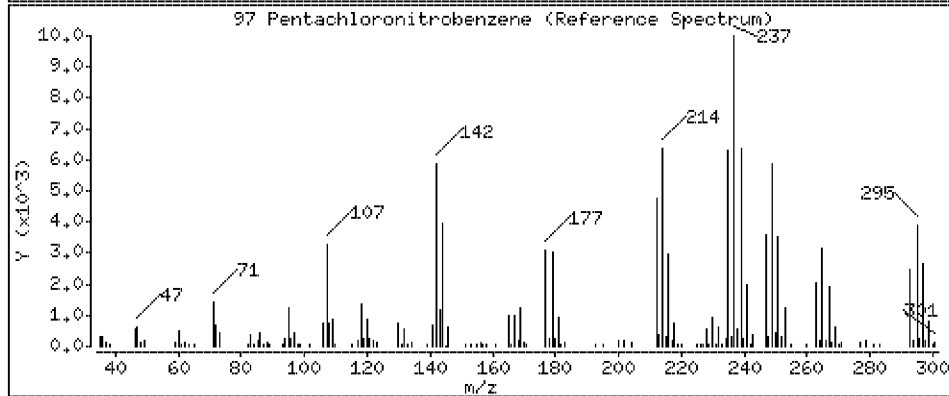
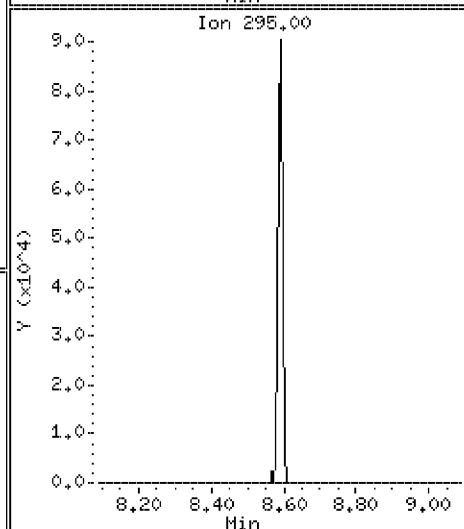
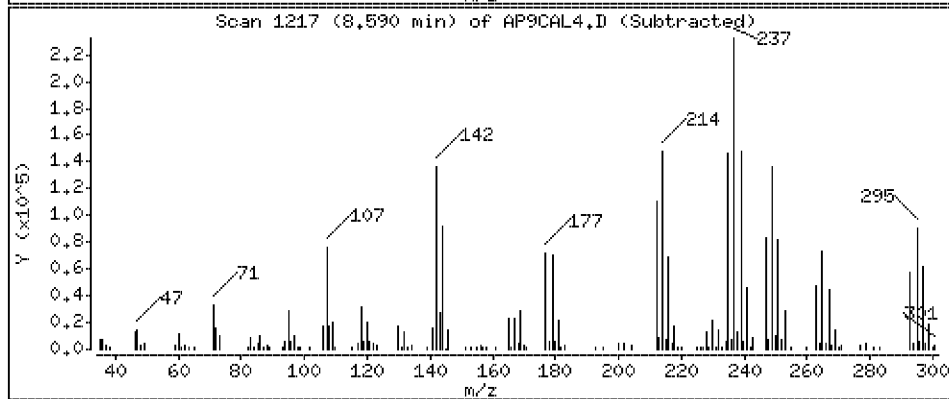
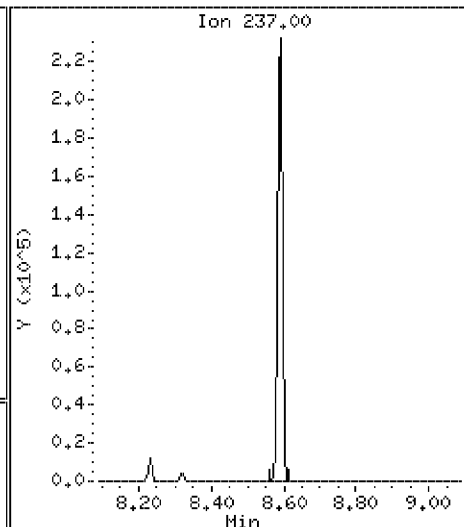
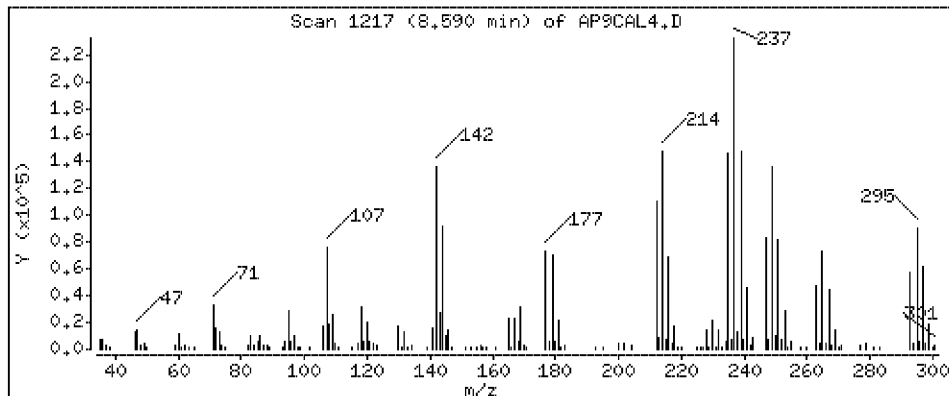
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

97 Pentachloronitrobenzene

Concentration: 45.4 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

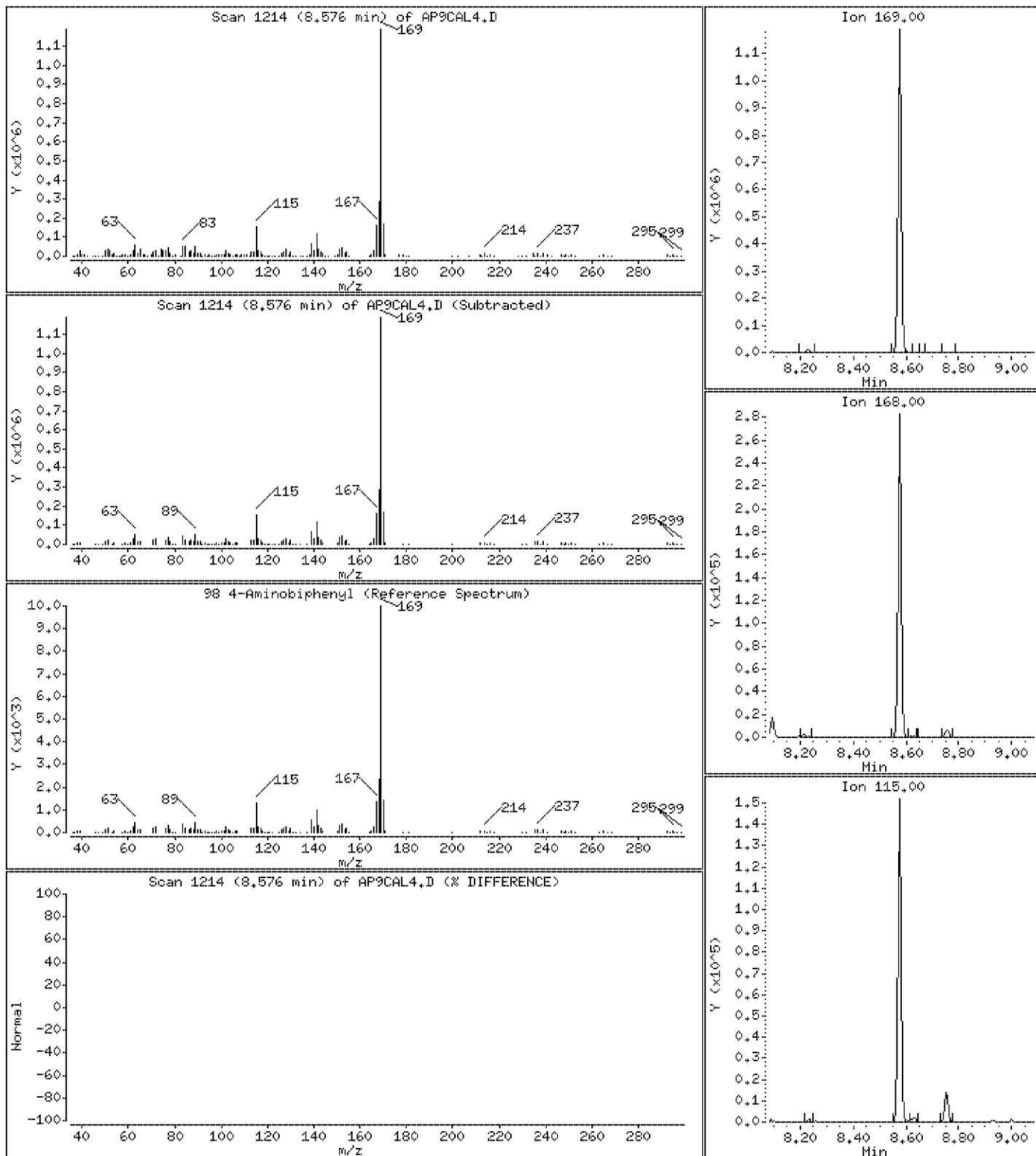
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

98 4-Aminobiphenyl

Concentration: 44.8 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

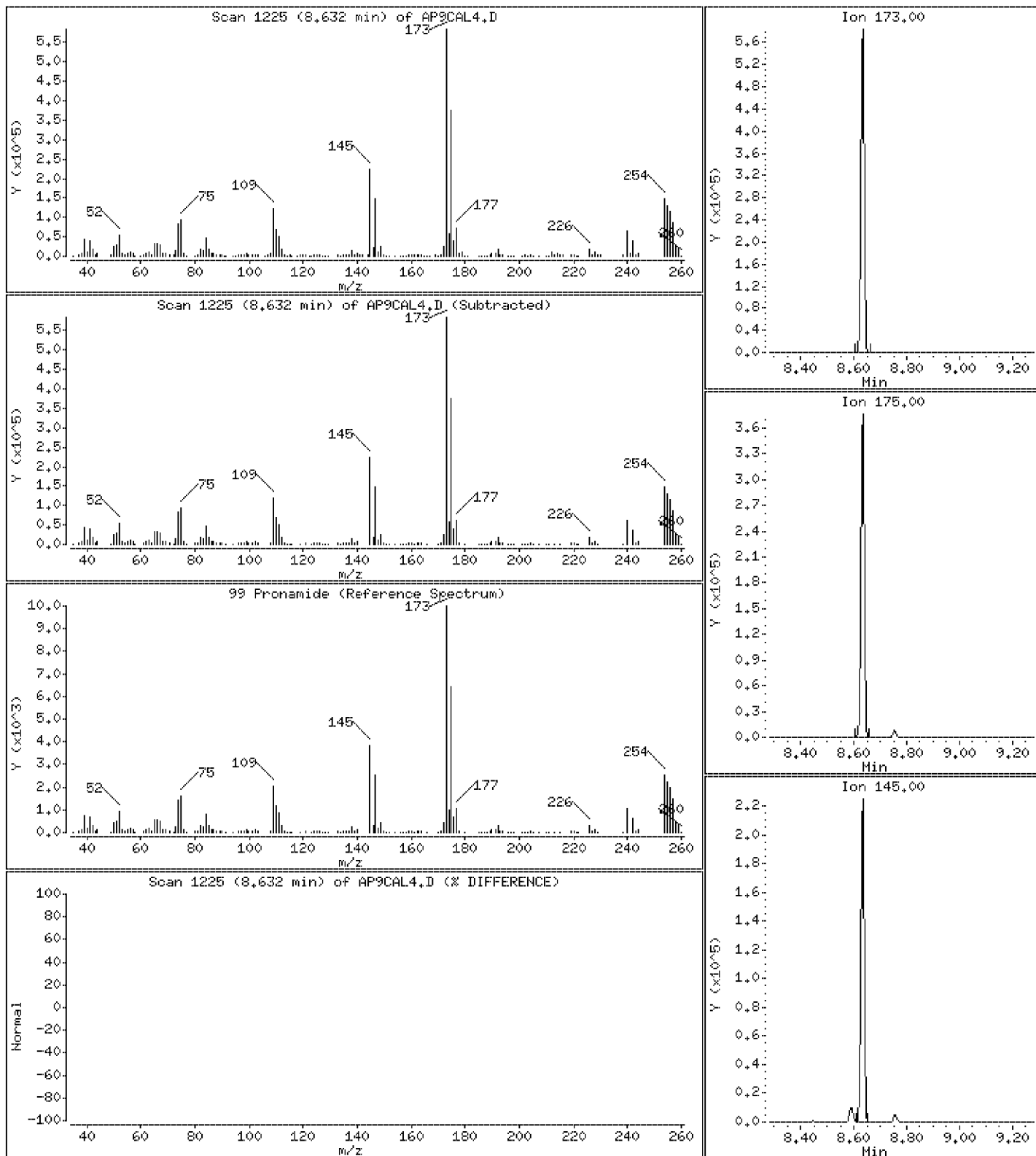
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

99 Pronamide

Concentration: 45.4 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

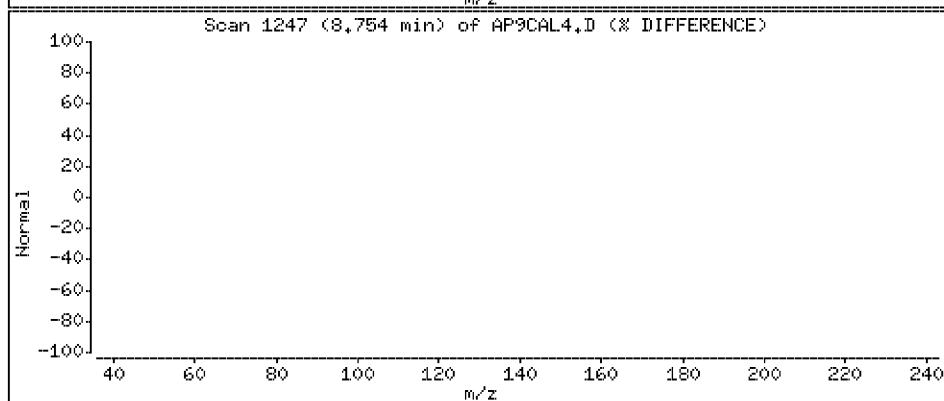
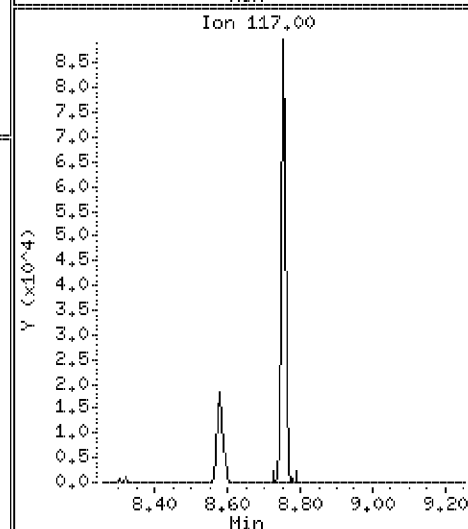
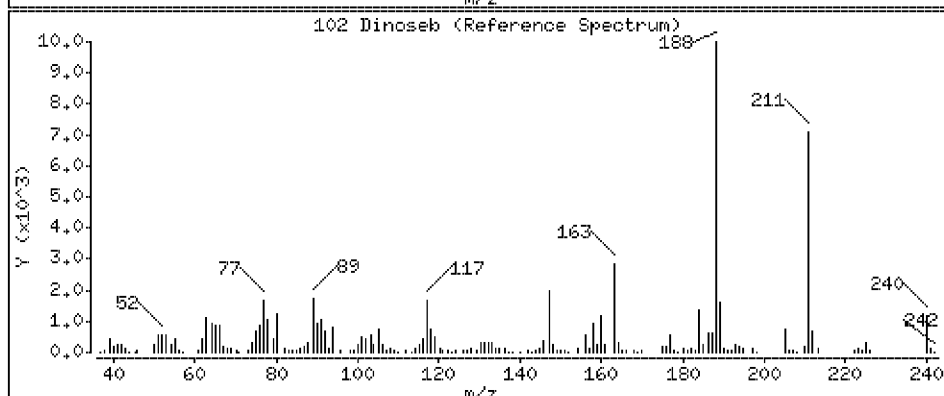
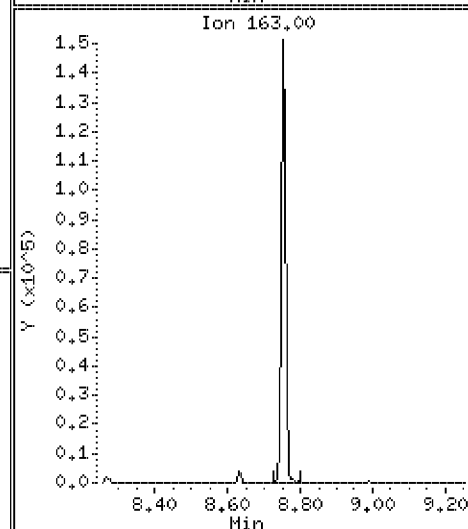
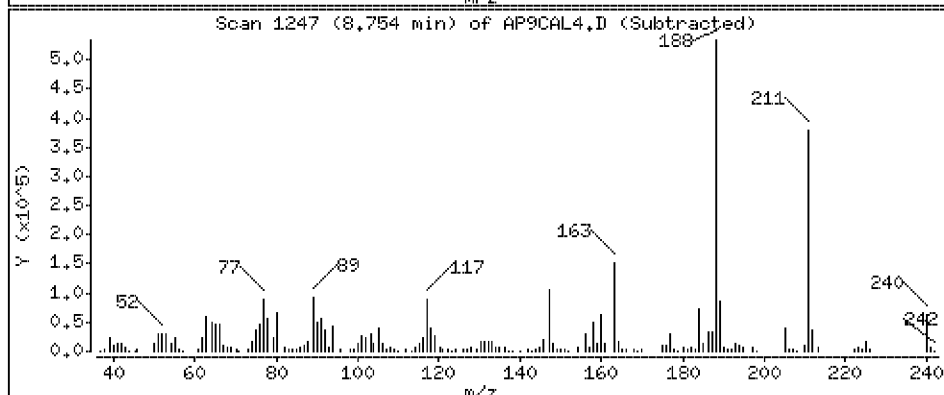
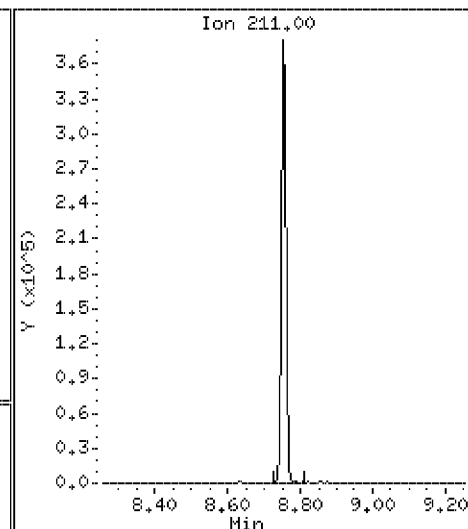
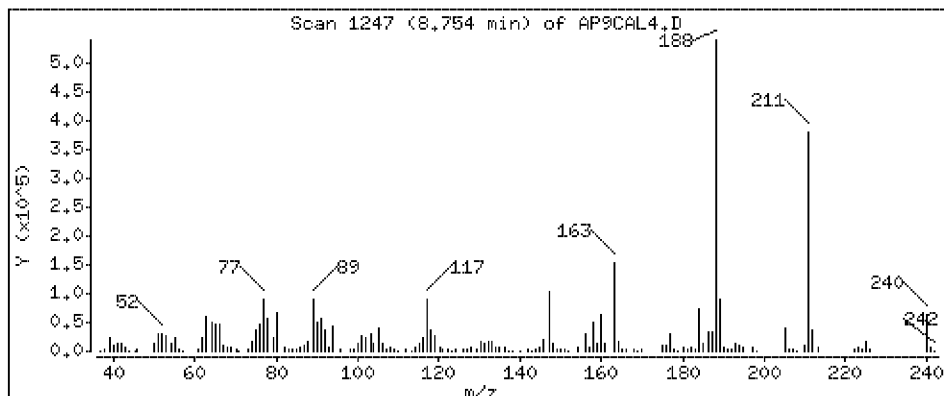
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

102 Dinoseb

Concentration: 44.6 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

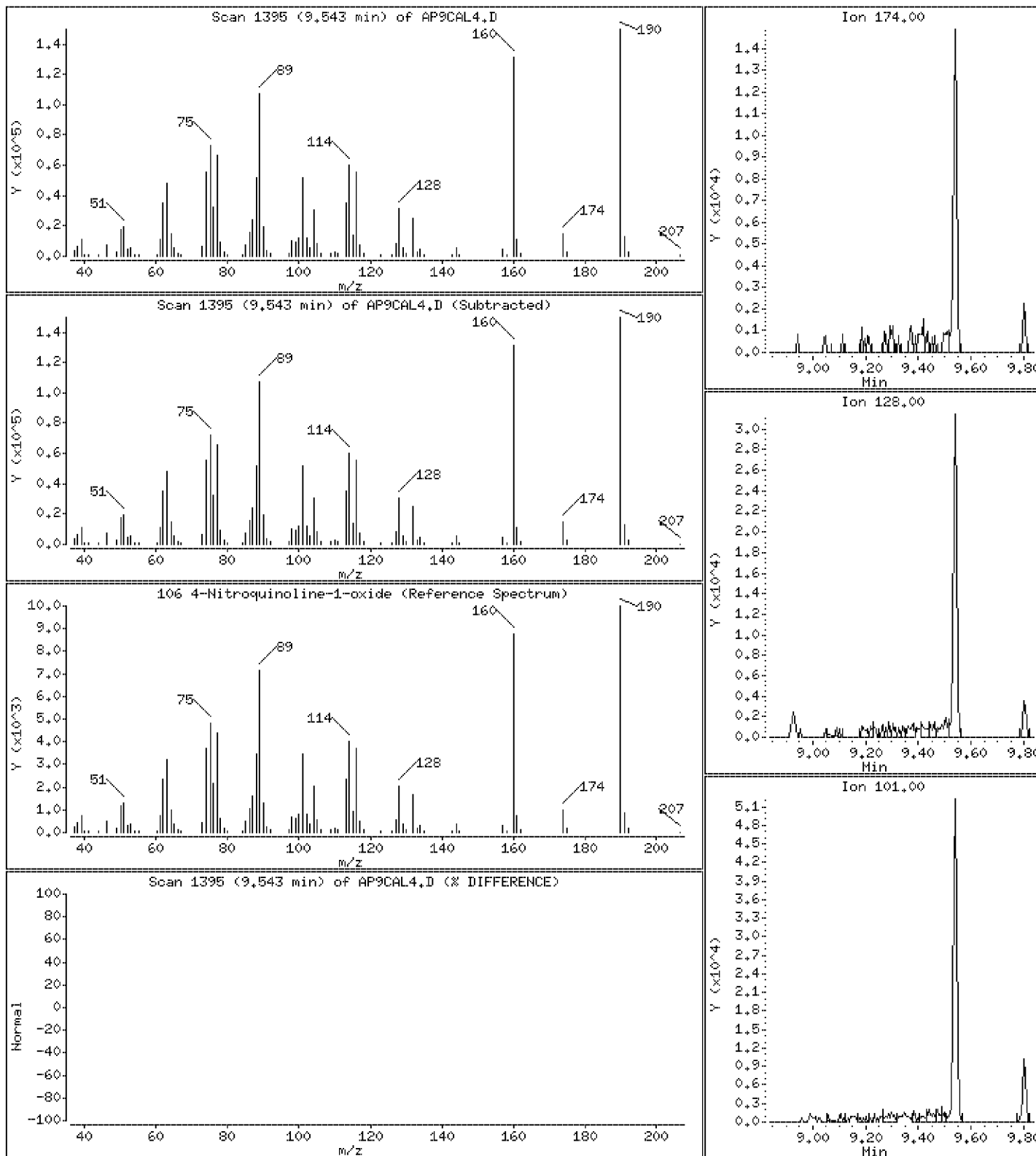
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

106 4-Nitroquinoline-1-oxide

Concentration: 44.6 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

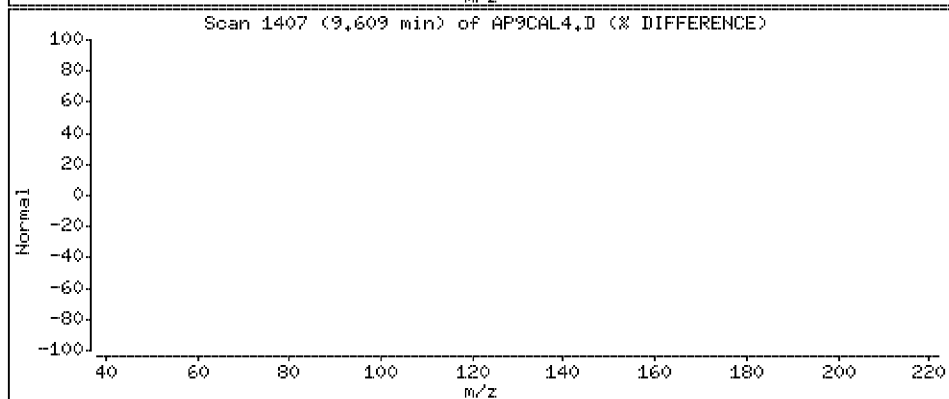
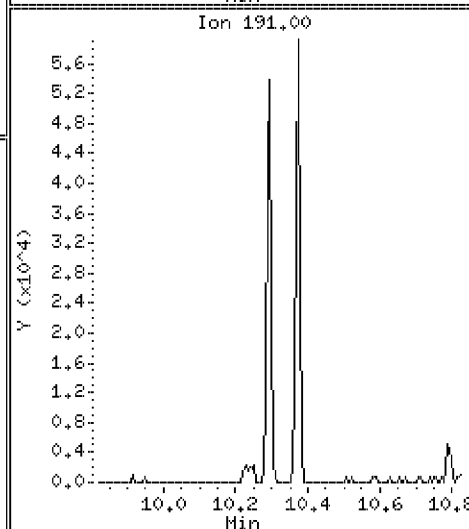
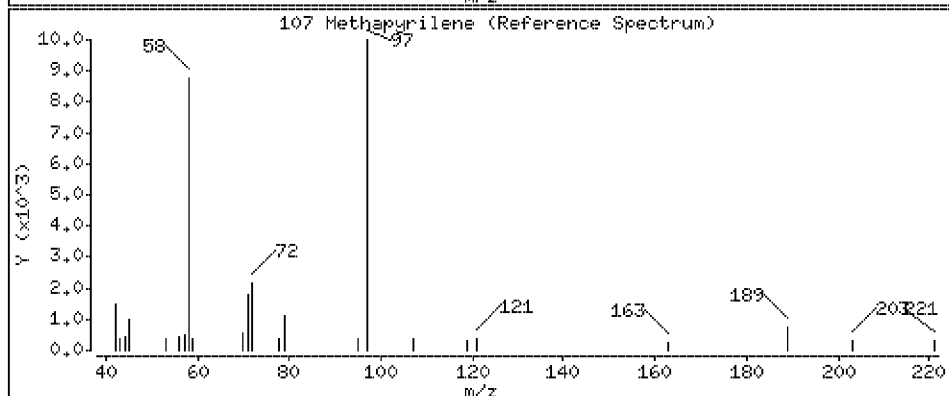
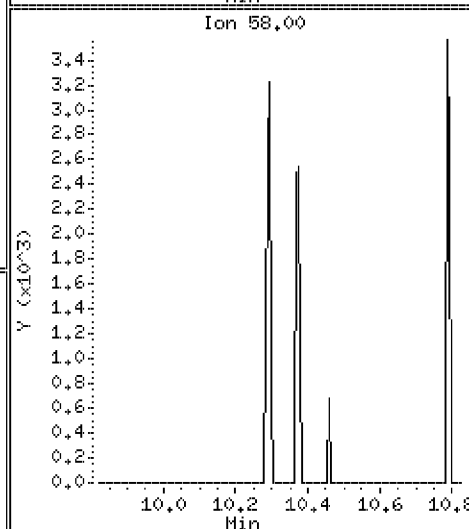
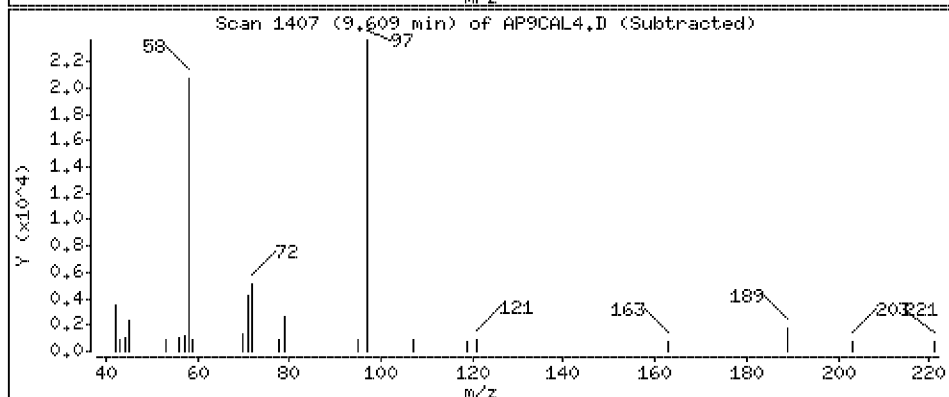
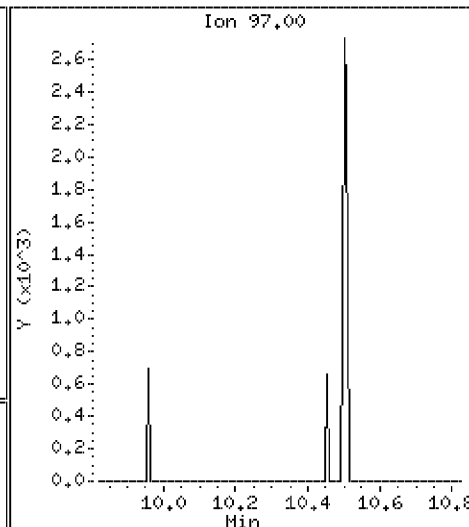
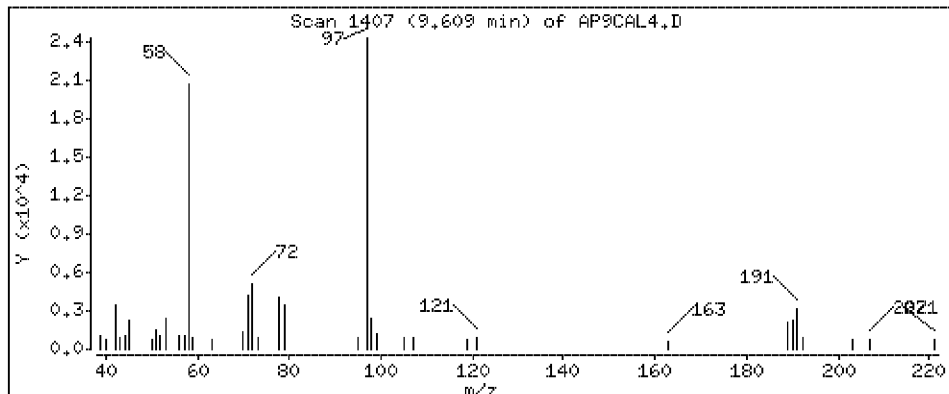
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

107 Methapyrilene

Concentration: 49.3 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

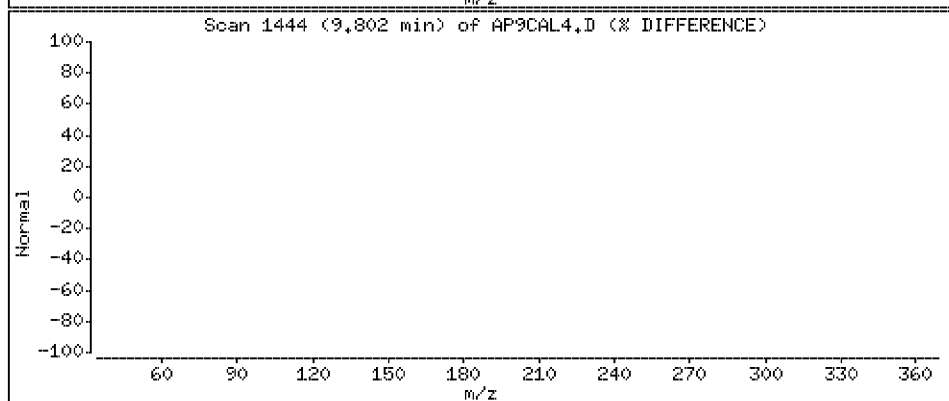
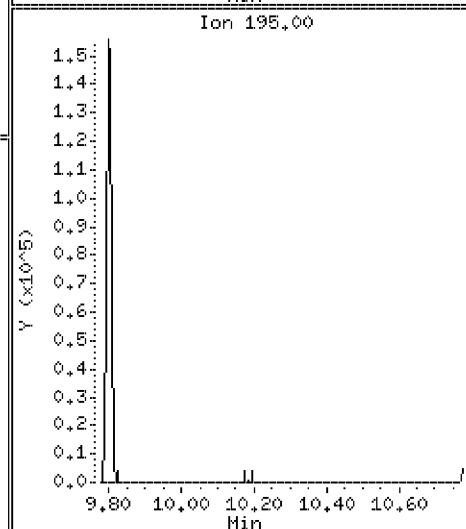
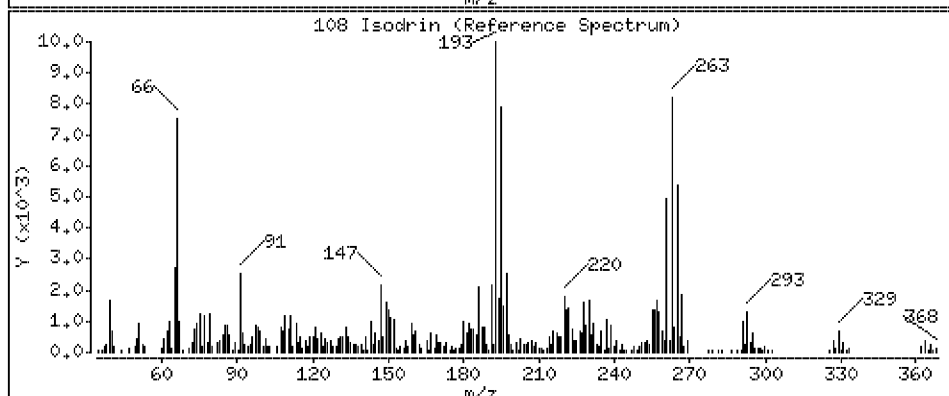
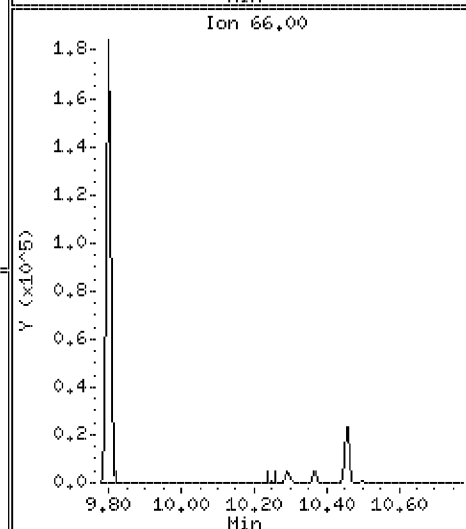
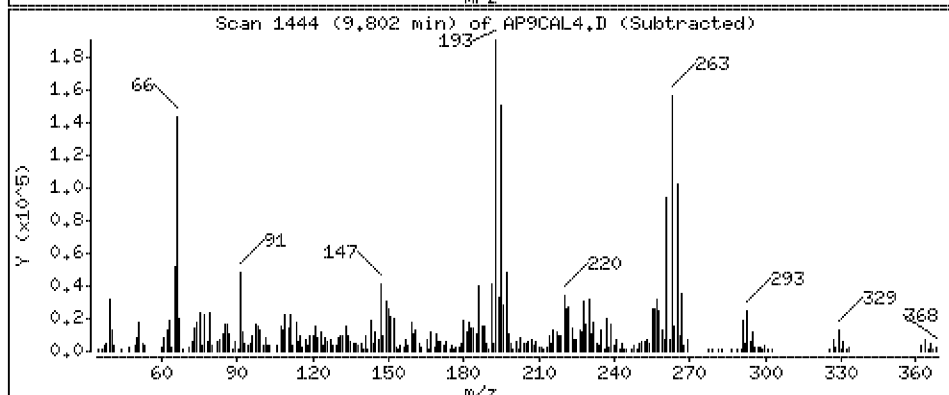
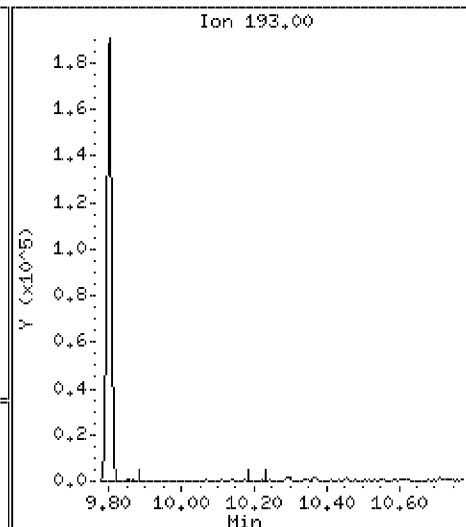
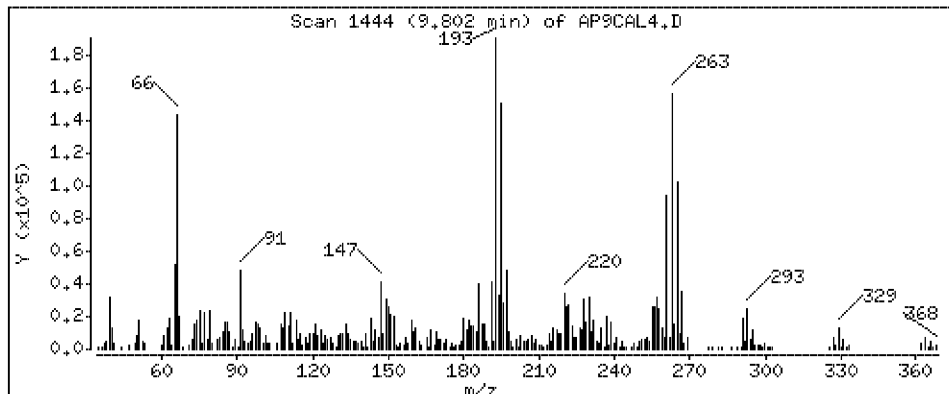
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

108 Isodrin

Concentration: 44.6 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

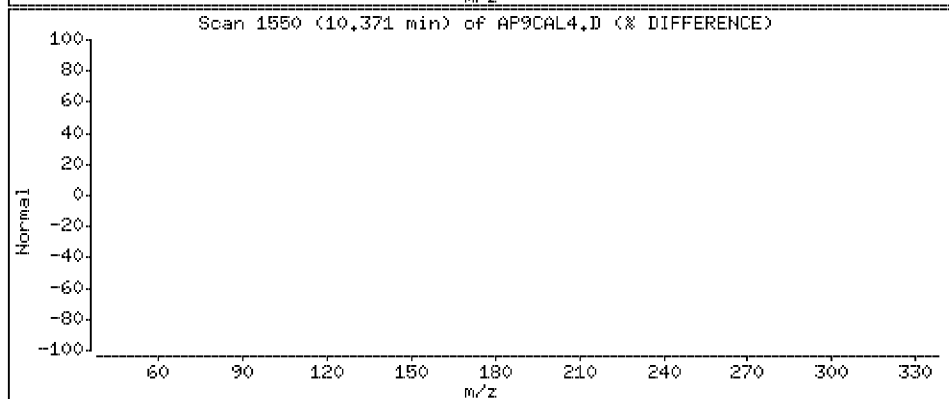
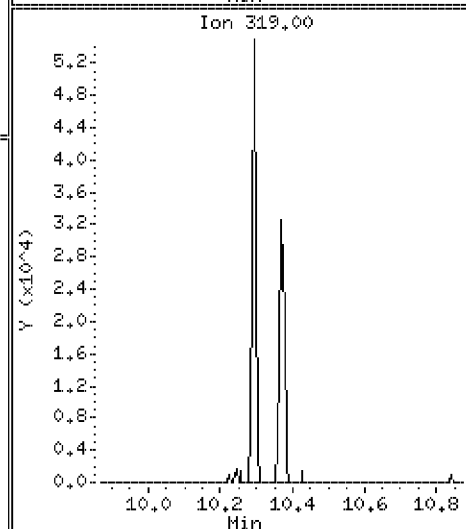
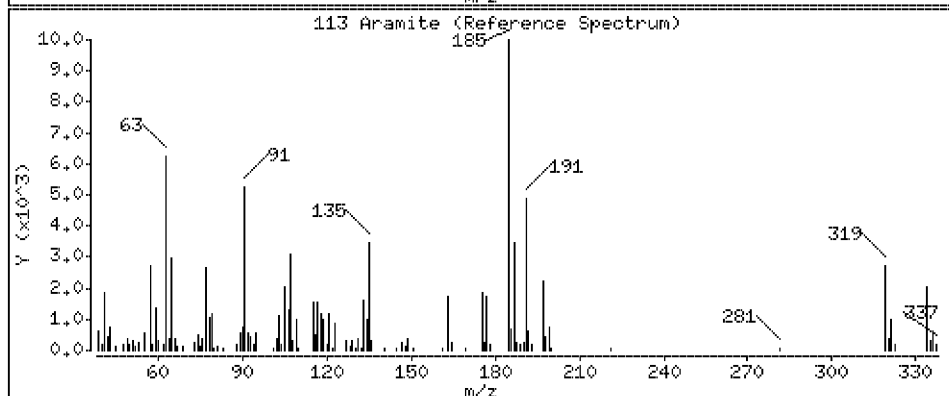
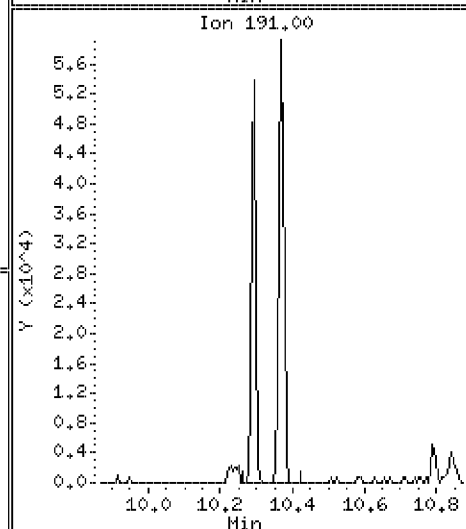
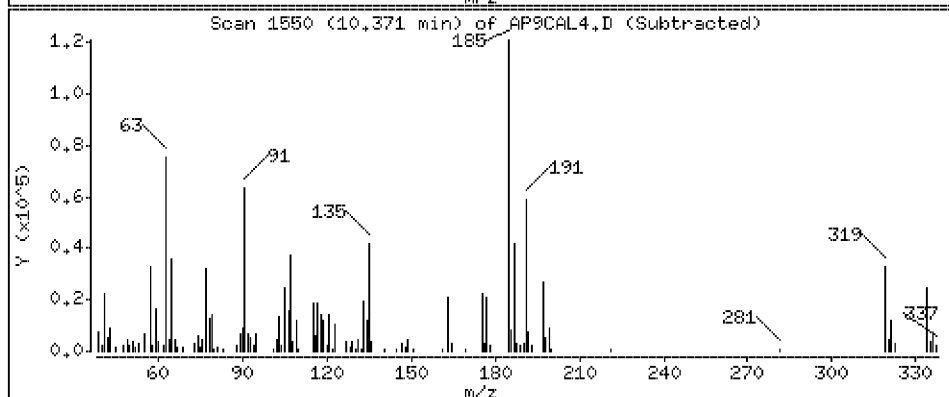
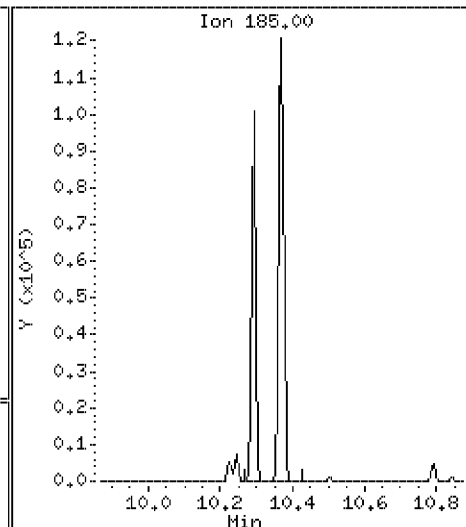
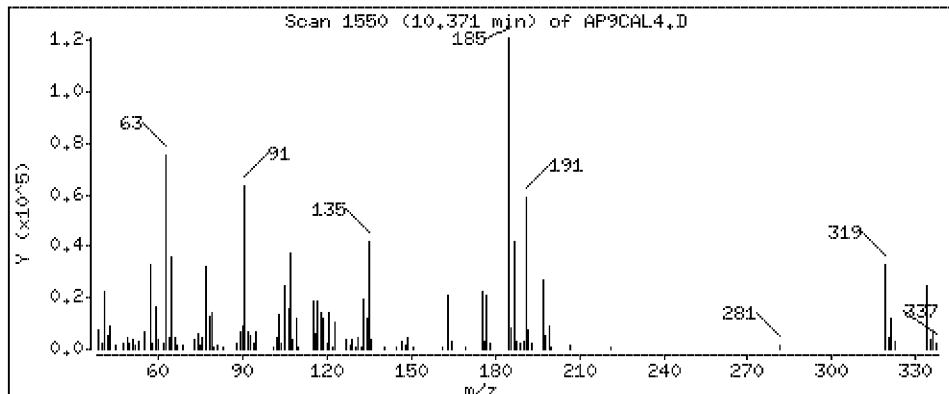
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

113 Aramite

Concentration: 46.4 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

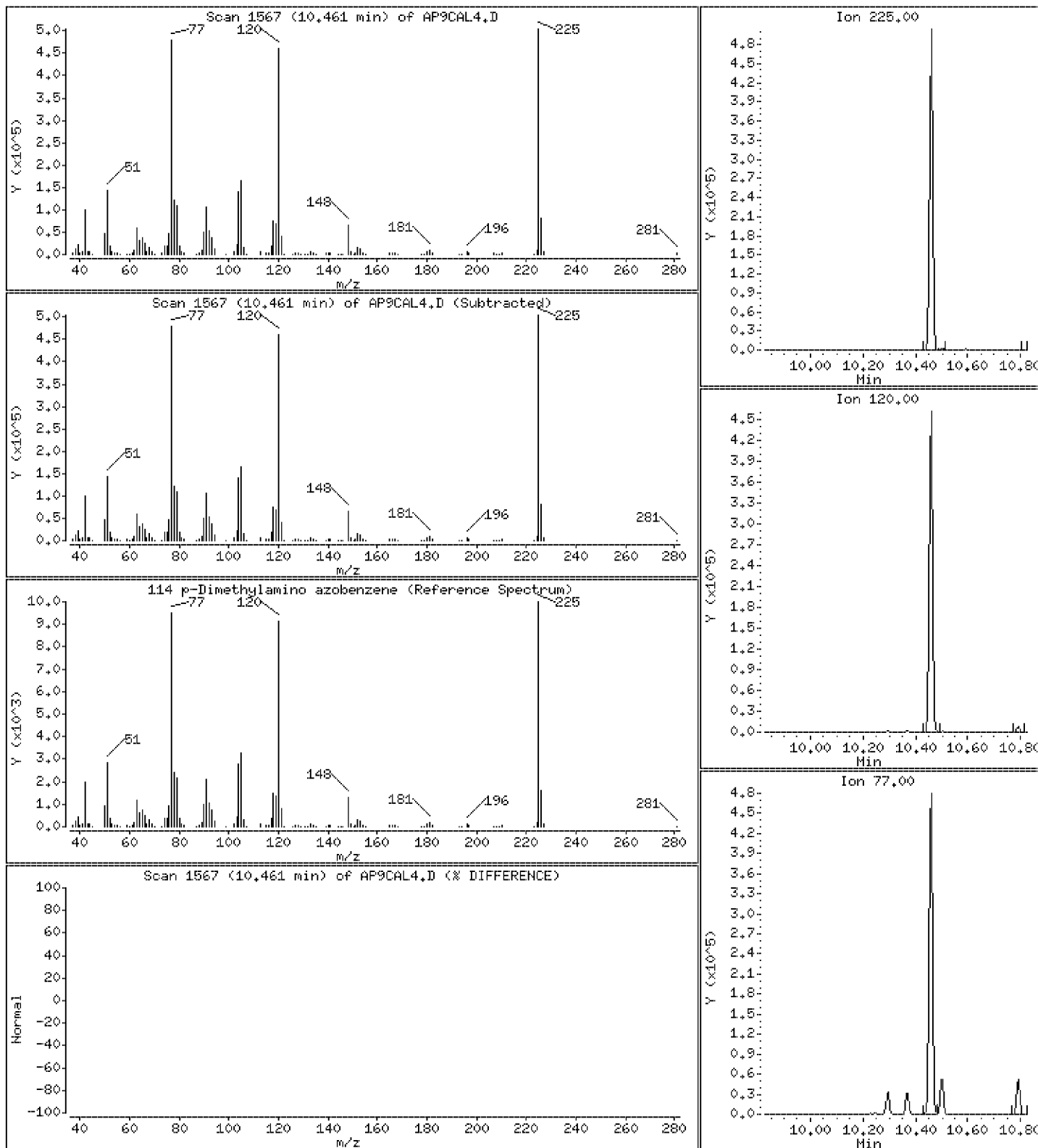
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

114 p-Dimethylamino azobenzene

Concentration: 45.9 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

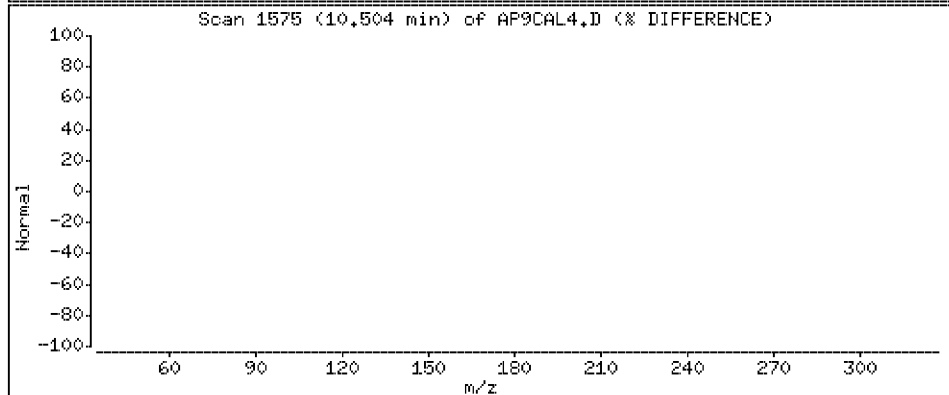
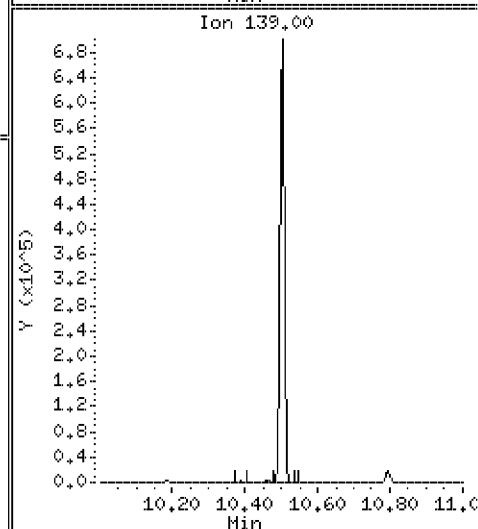
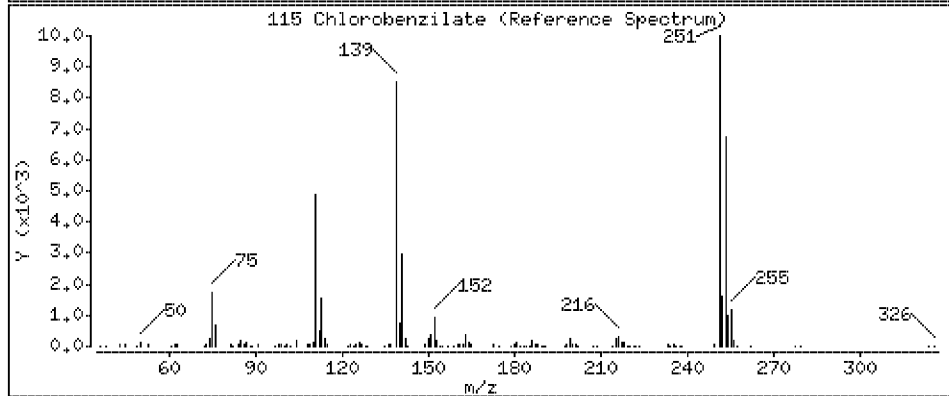
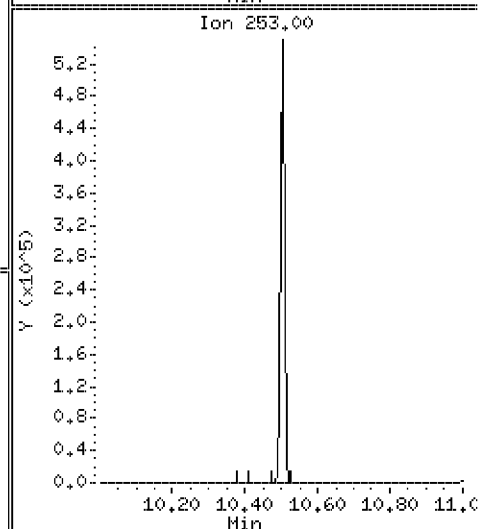
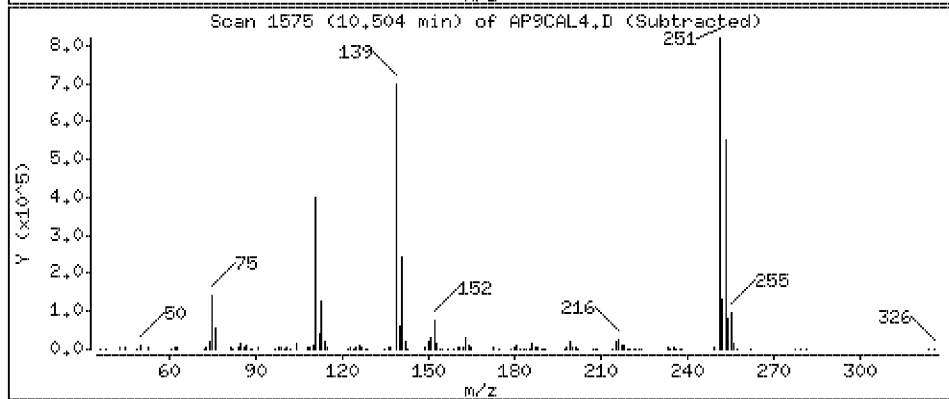
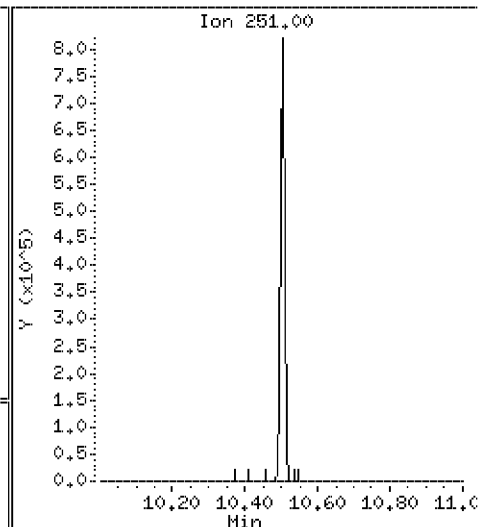
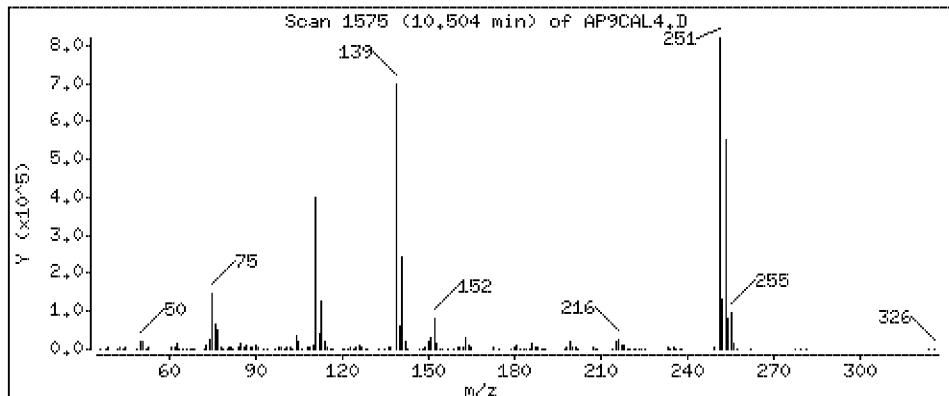
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

115 Chlorobenzilate

Concentration: 45.6 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

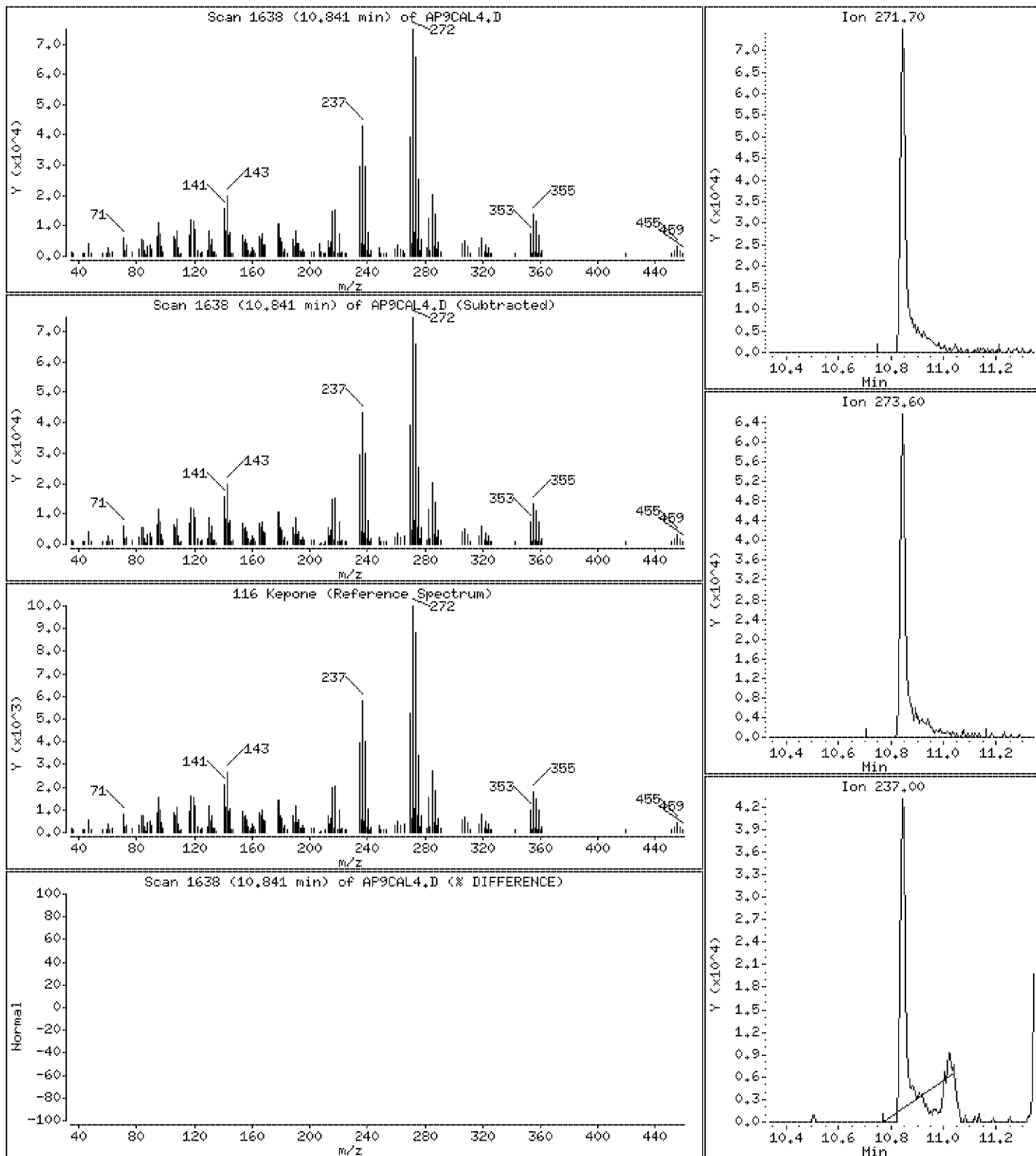
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

116 Kepone

Concentration: 49.0 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

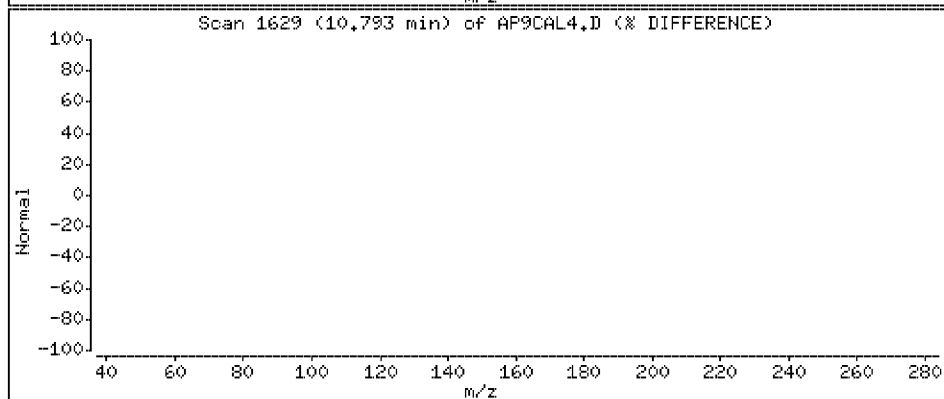
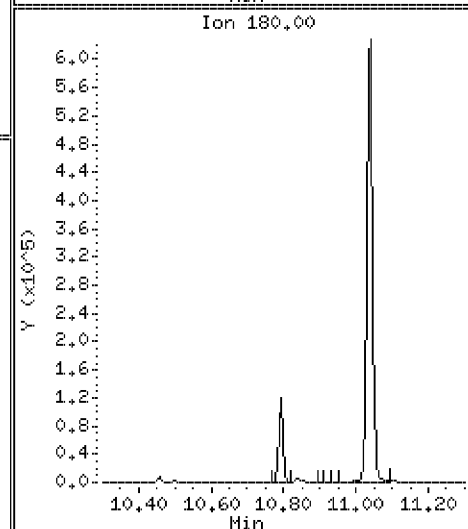
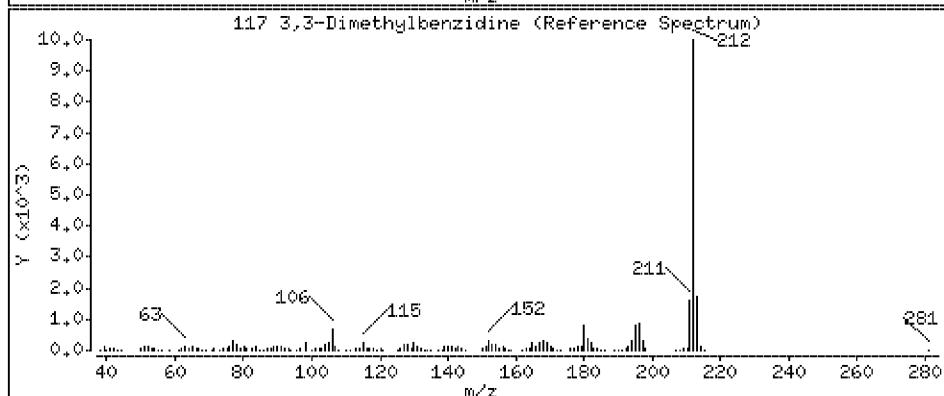
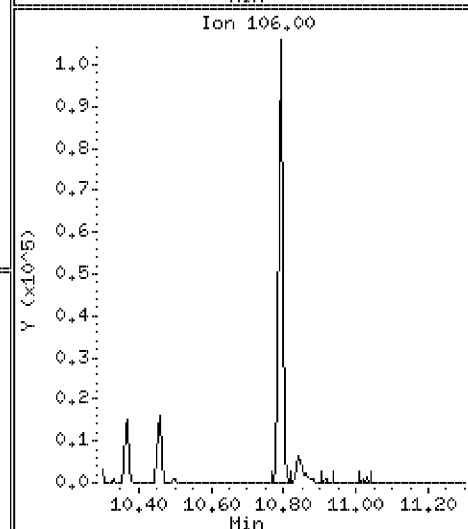
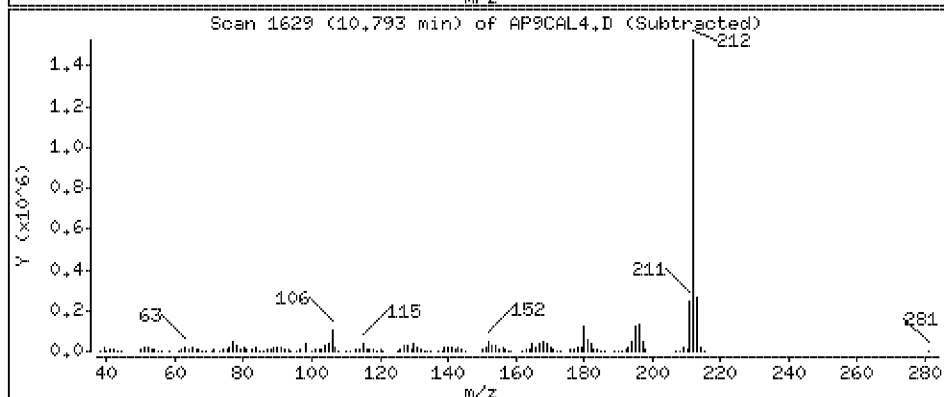
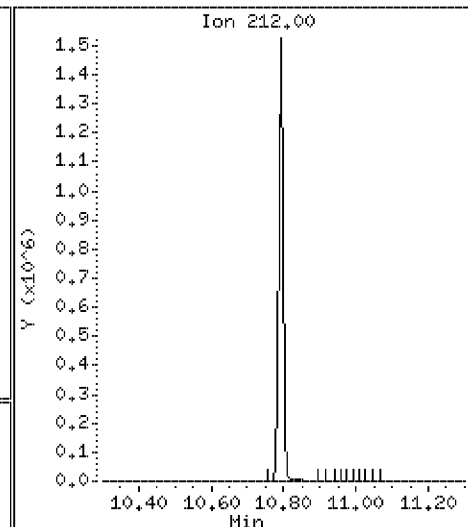
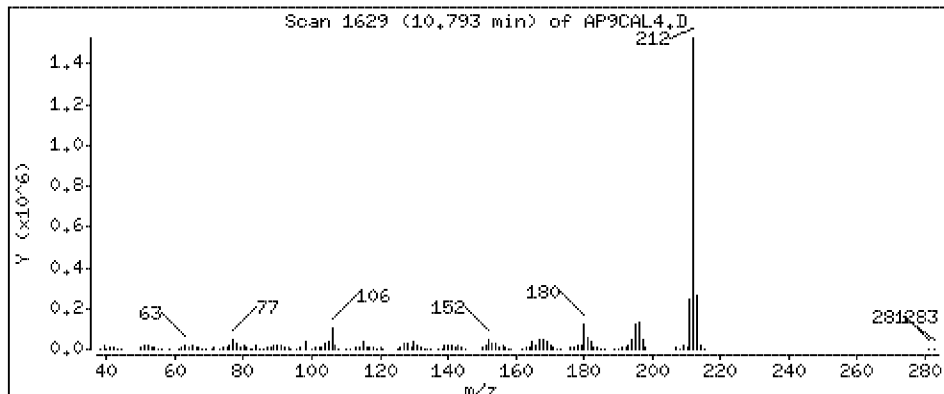
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

117 3,3-Dimethylbenzidine

Concentration: 47.4 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

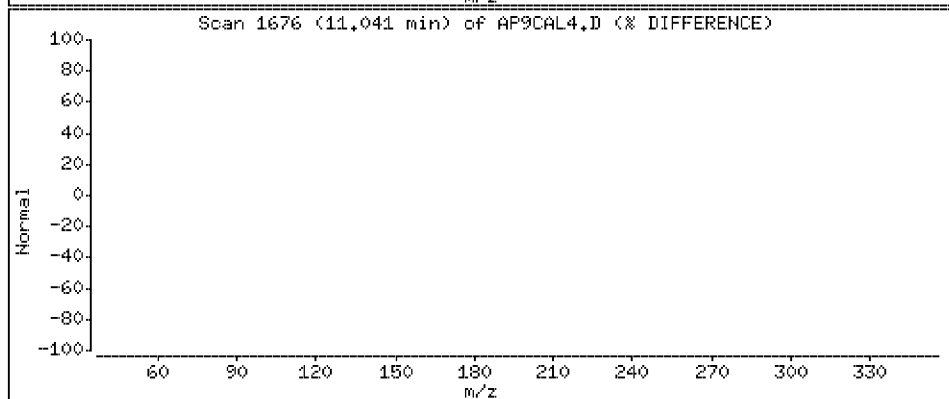
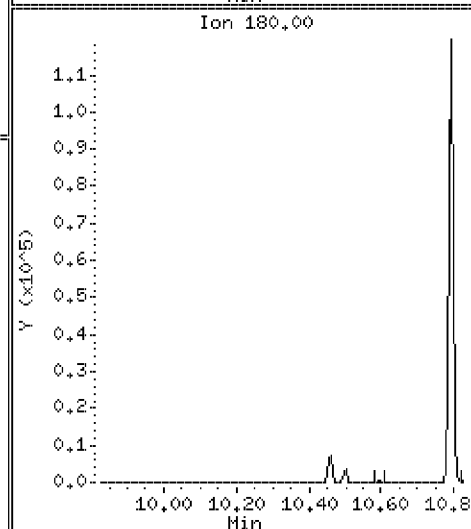
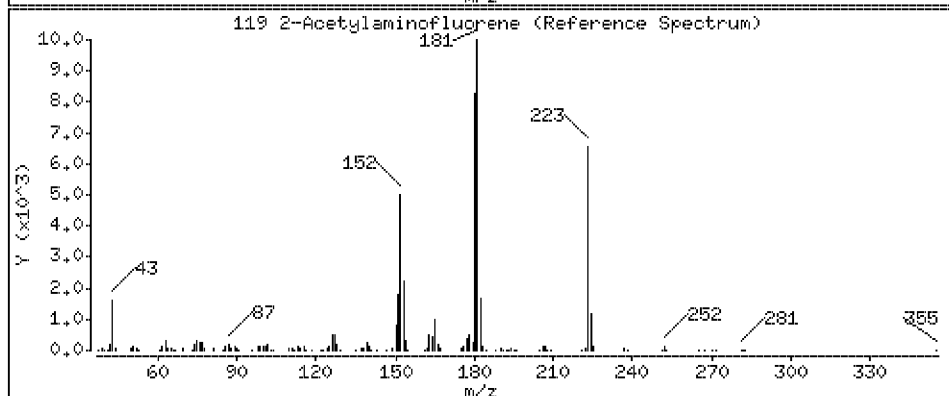
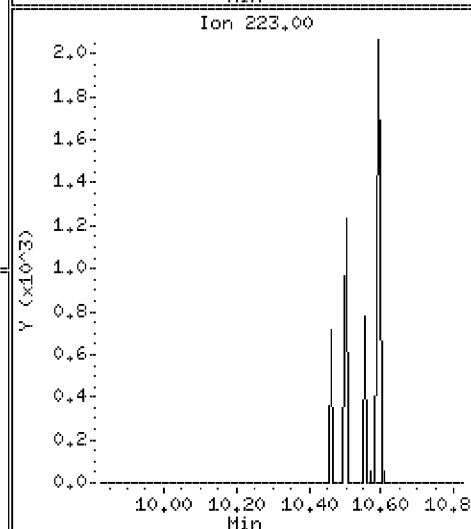
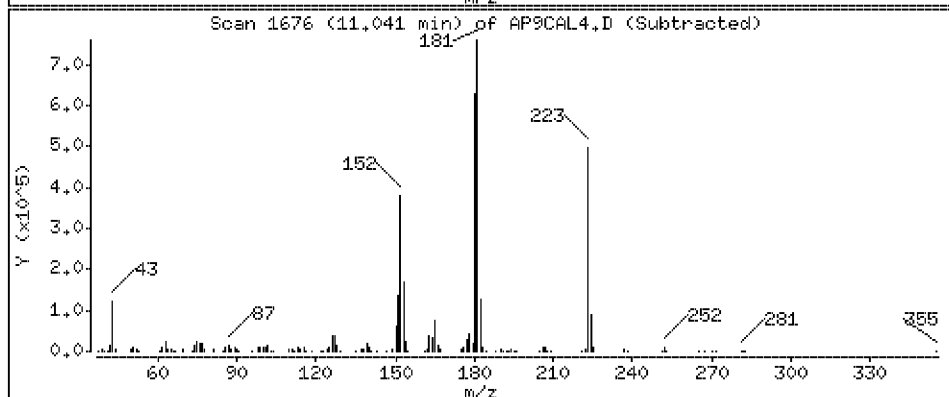
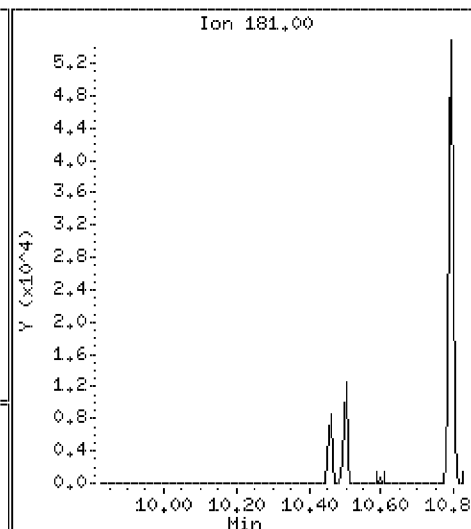
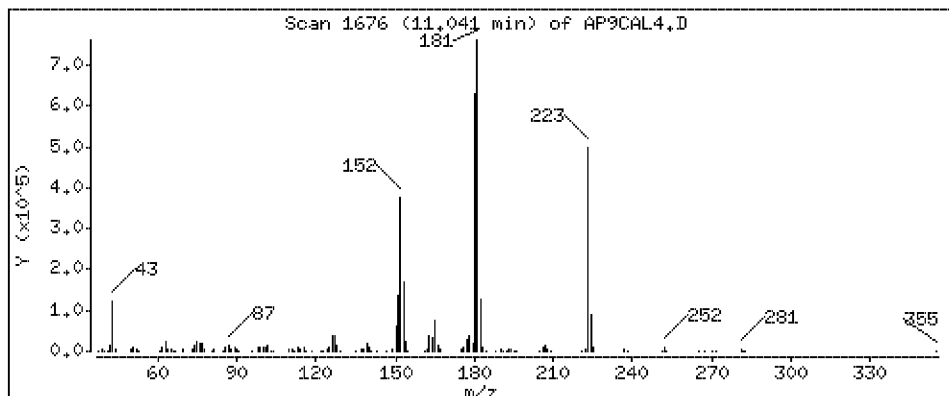
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

119 2-Acetylaminofluorene

Concentration: 46.9 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

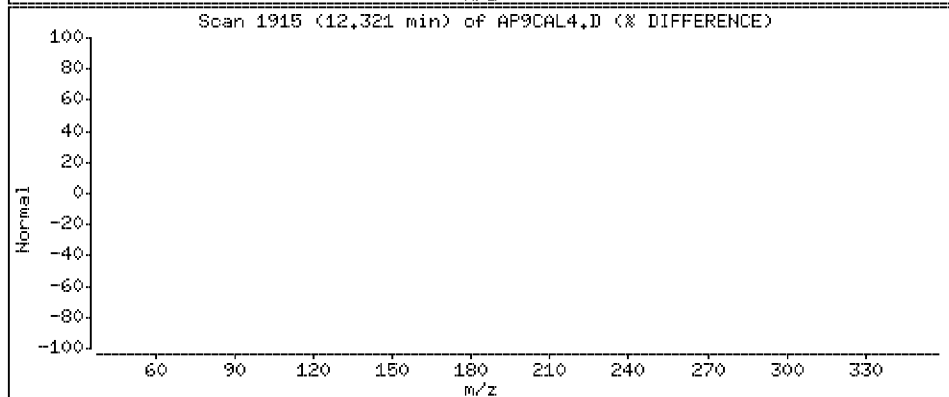
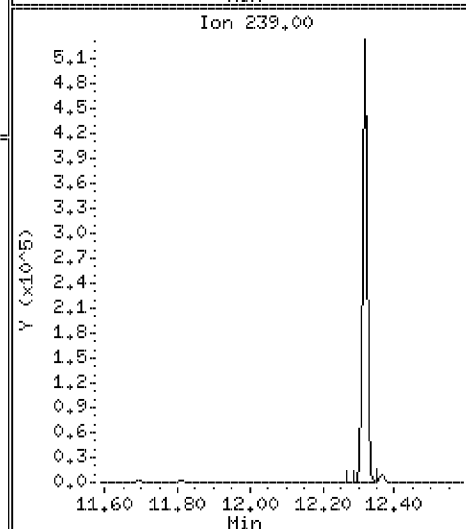
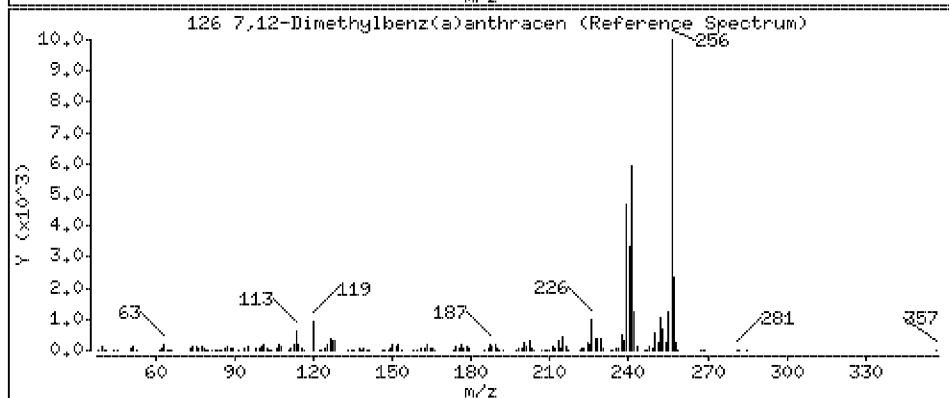
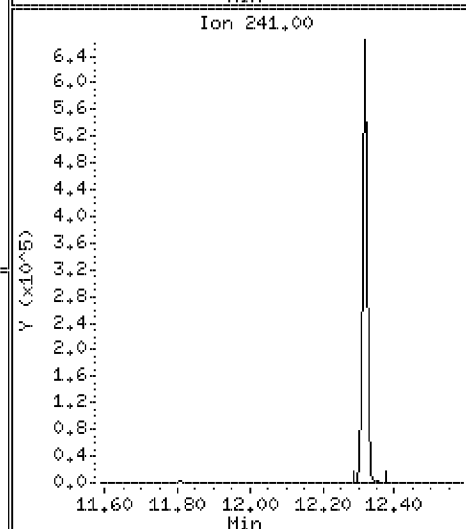
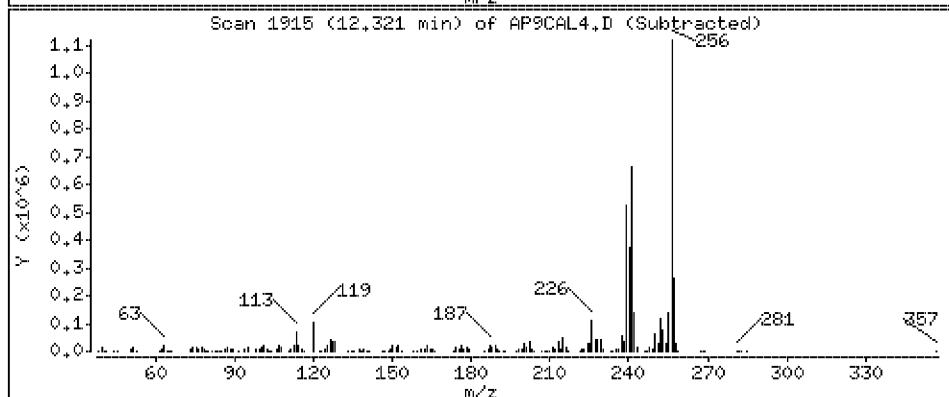
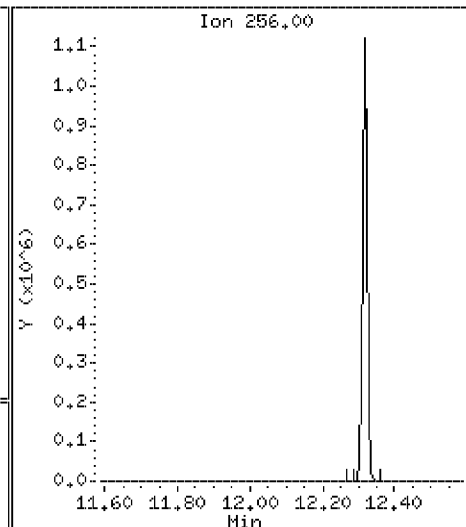
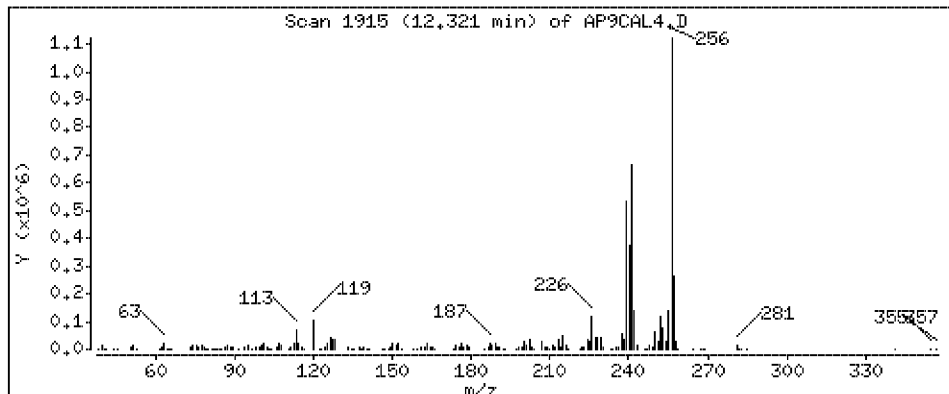
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

126 7,12-Dimethylbenz(a)anthracen

Concentration: 45.5 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

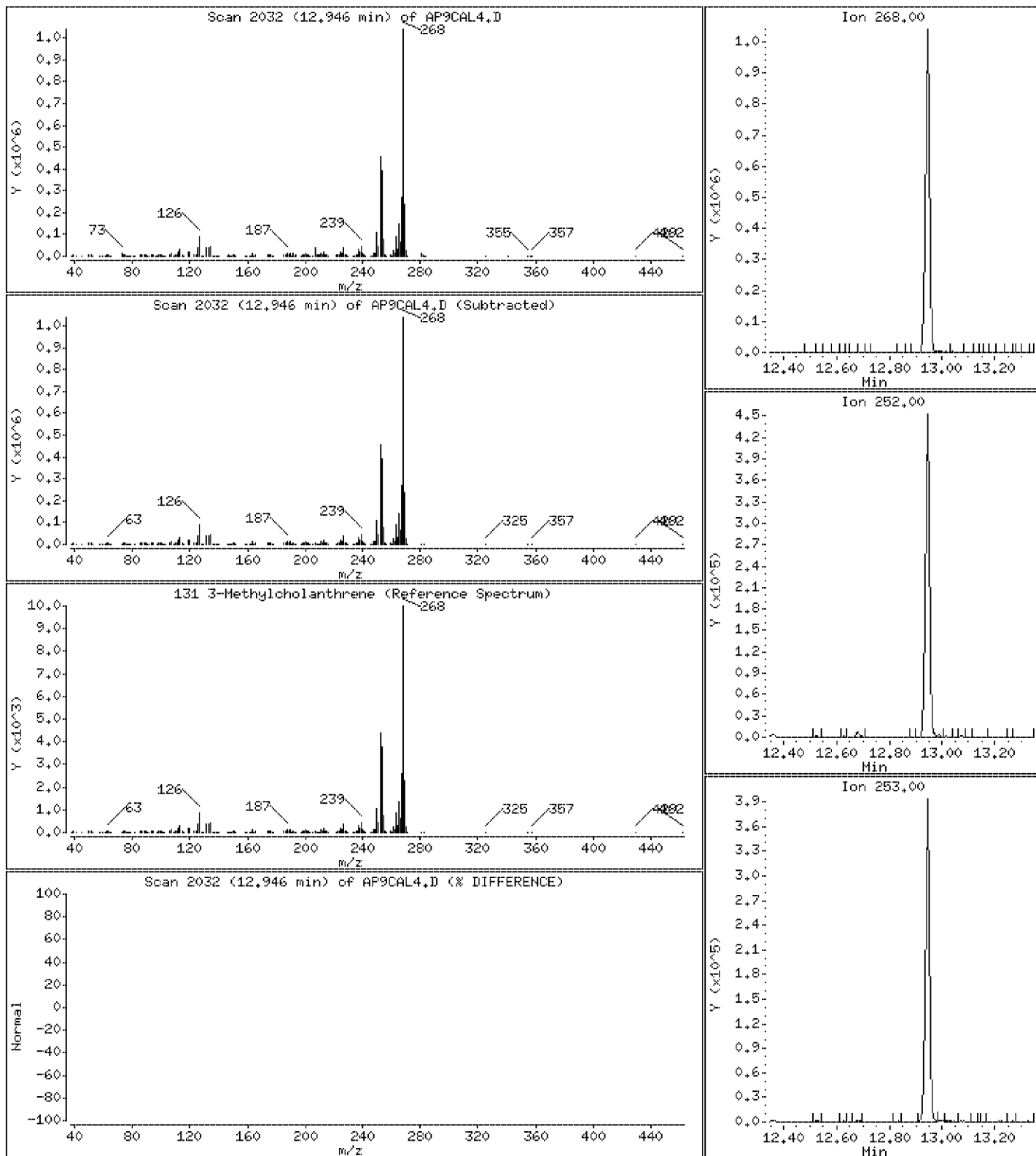
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

131 3-Methylcholanthrene

Concentration: 45.7 ug/l



Date : 23-APR-2012 18:17

Client ID: AP9CAL4

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

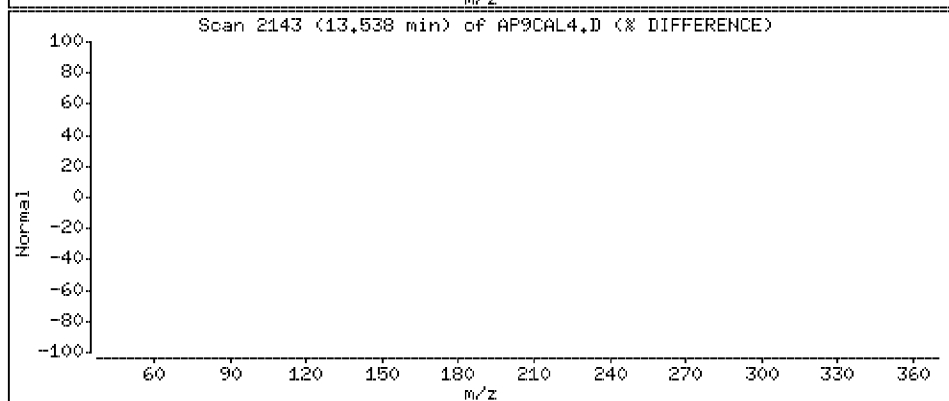
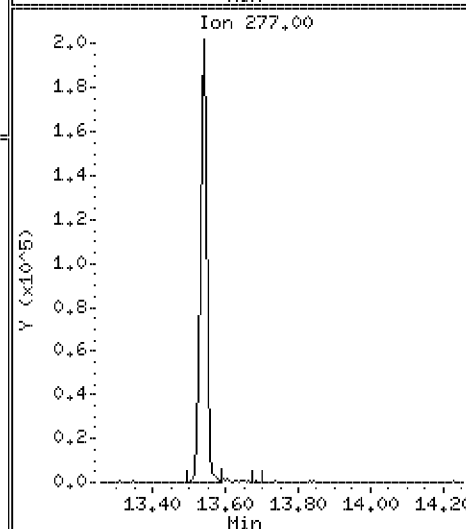
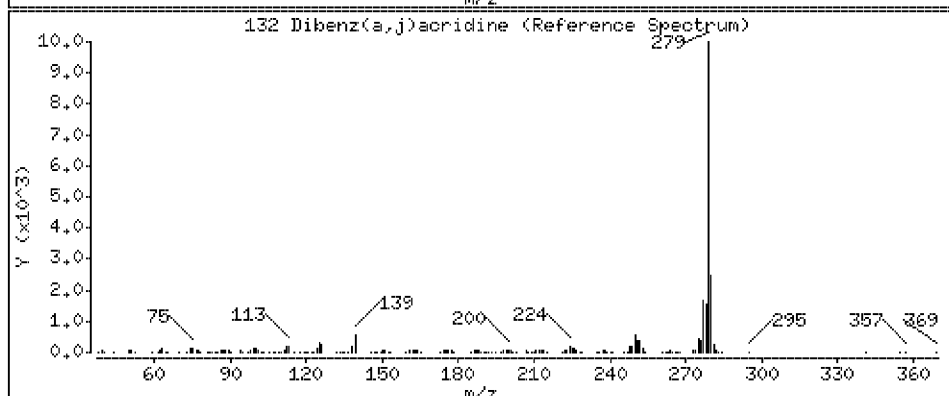
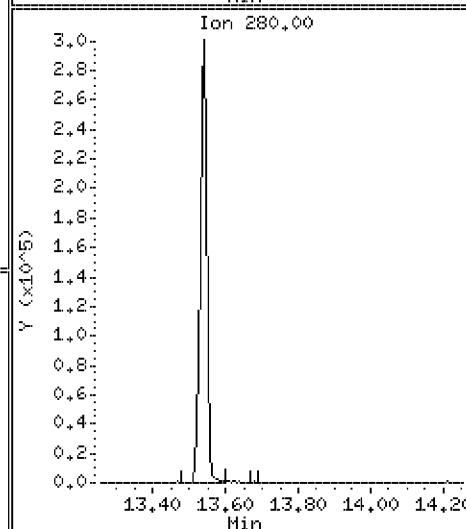
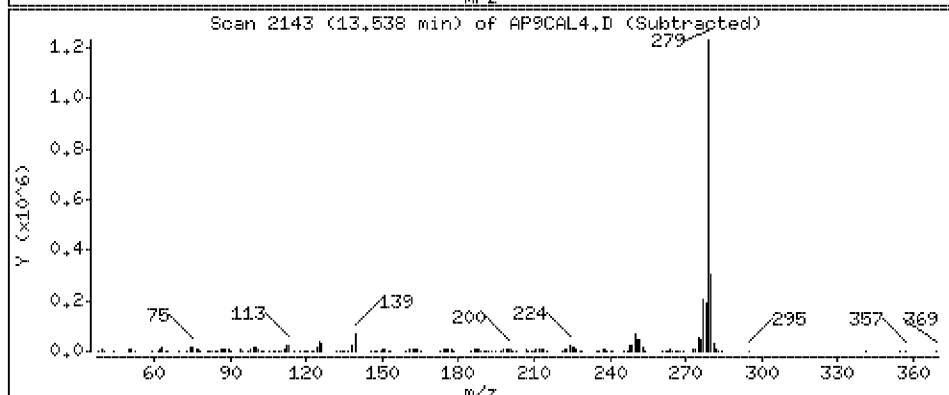
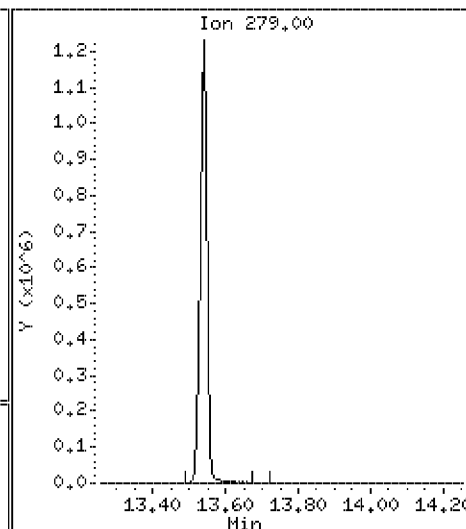
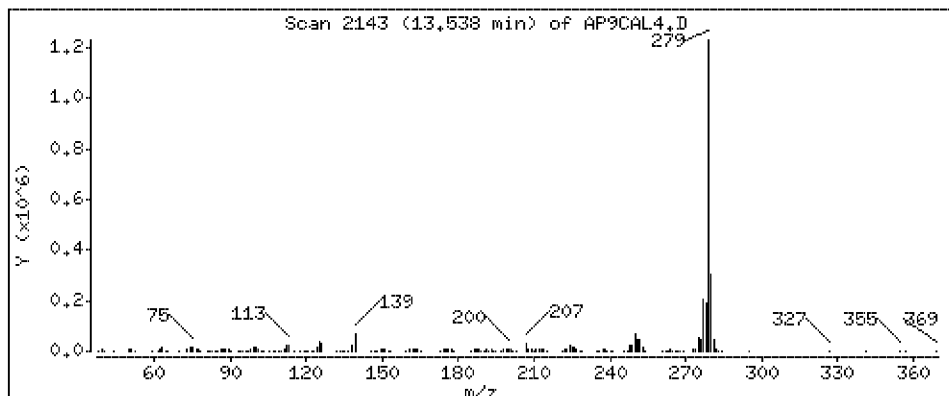
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

132 Dibenz(a,j)acridine

Concentration: 46.5 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3042312.b\AP9CAL3.D
 Lab Smp Id: 45959 Client Smp ID: AP9CAL3
 Inj Date : 23-APR-2012 18:41 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 45959
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270bcs.m
 Meth Date : 25-Apr-2012 09:57 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 17:53 Cal File: AP9CAL5.D
 Als bottle: 22 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ap9cal.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
3 2- Picoline CAS #: 109-06-8									
2.933	3.382	(0.660)	93	207553	20.0000	19.9	70.00- 130.00	100.00	
2.933	3.382	(0.660)	66	103940			46.98- 106.98	50.08	
2.933	3.382	(0.660)	92	50517			941.44-1001.44	24.34	
4 N-Nitrosomethylethylamine CAS #: 10595-95-6									
3.005	3.005	(0.676)	88	90446	20.0000	20.3	80.00- 120.00	100.00	
3.007	3.005	(0.676)	43	43524			16.66- 76.66	48.12	
3.006	3.005	(0.676)	42	89782			75.28- 135.28	99.27	
5 Methyl Methanesulfonate CAS #: 66-27-3									
3.238	3.383	(0.728)	80	147555	20.0000	20.0	70.00- 130.00	100.00	
3.238	3.383	(0.728)	79	86145			41.30- 101.30	58.38	
3.237	3.383	(0.728)	65	40358			390.98- 450.98	27.35	
7 N-Nitrosodiethylamine CAS #: 55-18-5									
3.551	3.383	(0.799)	102	85880	20.0000	19.5	70.00- 130.00	100.00	
3.551	3.383	(0.799)	42	61212			4947.35-5007.35	71.28	
3.551	3.383	(0.799)	57	38193			172953.97-173013.97	44.47	
8 Ethyl Methanesulfonate CAS #: 62-50-0									
3.787	4.446	(0.852)	79	156616	20.0000	20.5	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
8 Ethyl Methanesulfonate (continued)									
3.787	4.446	(0.852)	109	78646			103.08- 163.08	50.22	
3.787	4.446	(0.852)	97	28981			71.09- 131.09	18.50	

12 Pentachloroethane CAS #: 76-01-7									
4.207	4.207	(0.946)	167	85445	20.0000	19.6	80.00- 120.00	100.00	
4.207	4.207	(0.946)	117	61574			42.54- 102.54	72.06	
4.207	4.207	(0.946)	130	37445			11.81- 71.81	43.82	

* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.446	4.448	(1.000)	152	285053	40.0000		80.00- 120.00	100.00	
4.445	4.448	(1.000)	115	185397			32.20- 92.20	65.04	
4.446	4.448	(1.000)	150	428296			139.77- 199.77	150.25	

24 N-Nitrosopyrrolidine CAS #: 930-55-2									
4.782	4.944	(1.075)	100	90244	20.0000	19.4	70.00- 130.00	100.00	
4.781	4.944	(1.075)	41	62964			349.38- 409.38	69.77	
4.782	4.944	(1.075)	42	53194			7836.39-7896.39	58.94	

25 Acetophenone CAS #: 98-86-2									
4.799	4.807	(0.856)	105	256175	20.0000	18.3	70.00- 130.00	100.00	
4.798	4.807	(0.856)	77	272645			4410.01-4470.01	106.43	
4.798	4.807	(0.856)	51	65446			1262.06-1322.06	25.55	

27 N-Nitrosomorpholine CAS #: 59-89-2									
4.812	4.446	(1.082)	56	94277	20.0000	19.8	70.00- 130.00	100.00	
4.813	4.446	(1.083)	116	32639			116.25- 176.25	34.62	
4.812	4.446	(1.082)	86	63233			171.65- 231.65	67.07	

29 o-Toluidine CAS #: 95-53-4									
4.832	4.814	(1.087)	106	295355	20.0000	19.5	70.00- 130.00	100.00	
4.831	4.814	(1.087)	77	70174			36058.41-36118.41	23.76	
4.832	4.814	(1.087)	107	213715			76505.71-76565.71	72.36	

33 N-Nitrosopiperidine CAS #: 100-75-4									
5.094	4.798	(0.908)	114	78272	20.0000	18.4	70.00- 130.00	100.00	
5.093	4.798	(0.908)	42	93253			3934.42-3994.42	119.14	
5.093	4.798	(0.908)	55	49473			491.51- 551.51	63.21	

37 o,o,o-Triethylphosphorothioate CAS #: 126-68-1									
5.336	5.338	(1.200)	198	128368	20.0000	18.7	80.00- 120.00	100.00	
5.336	5.338	(1.200)	97	90444			34.93- 94.93	70.46	
5.335	5.338	(1.200)	65	72036			24.79- 84.79	56.12	

39 a,a-Dimethylphenethylamine CAS #: 122-09-8									
5.437	5.370	(0.970)	58	299269	20.0000	20.0	70.00- 130.00	100.00(M)	
5.443	5.370	(0.971)	91	102388			64.34- 124.34	34.21	
5.437	5.370	(0.970)	65	60684			12409.05-12469.05	20.28	

* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.607	5.610	(1.000)	136	980676	40.0000		80.00- 120.00	100.00	
5.606	5.610	(1.000)	68	52113			0.00- 35.51	5.31	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
====	=====	=====	=====	=====	=====	=====	=====	=====
46 2,6-Dichlorophenol			CAS #: 87-65-0					
5.689	5.691	(1.015)	162	156844	20.0000	19.1	70.00- 130.00	100.00
5.689	5.691	(1.014)	63	117593			8424.37-8484.37	74.97
5.689	5.691	(1.015)	98	41690			164.07- 224.07	26.58

47 Hexachloropropene			CAS #: 1888-71-7					
5.712	5.712	(1.019)	213	201142	20.0000	18.4	80.00- 120.00	100.00
5.712	5.712	(1.019)	215	128422			34.61- 94.61	63.85
5.711	5.712	(1.018)	117	39696			0.00- 50.39	19.74

49 N-Nitrosodi-n-butylamine			CAS #: 924-16-3					
5.990	6.287	(1.068)	84	152119	20.0000	19.2	70.00- 130.00	100.00
5.989	6.287	(1.068)	57	84530			1288.18-1348.18	55.57
5.989	6.287	(1.068)	41	76622			66.46- 126.46	50.37

52 Isosafrole			CAS #: 120-58-1					
6.199	6.619	(1.106)	162	148369	20.0000	18.7	70.00- 130.00	100.00
6.199	6.619	(1.105)	104	108315			0.00- 46.22	73.00
6.199	6.619	(1.105)	131	70509			37.69- 97.69	47.52

56 1,2,4,5-Tetrachlorobenzene			CAS #: 95-94-3					
6.451	6.452	(0.883)	216	234808	20.0000	18.9	80.00- 120.00	100.00
6.451	6.452	(0.883)	214	181587			48.19- 108.19	77.33
6.449	6.452	(0.883)	108	42502			0.00- 47.81	18.10

60 Safrole			CAS #: 94-59-7					
6.702	6.619	(1.195)	162	136061	20.0000	18.2	70.00- 130.00	100.00
6.701	6.619	(1.195)	104	88102			0.00- 46.22	64.75
6.701	6.619	(1.195)	77	57567			0.00- 57.00	42.31

64 1,4-Naphthoquinone			CAS #: 130-15-4					
6.930	6.642	(0.949)	158	138013	20.0000	19.7	70.00- 130.00	100.00
6.929	6.642	(0.949)	102	120363			523.56- 583.56	87.21
6.930	6.642	(0.949)	130	60964			0.00- 46.52	44.17

66 1,3-Dinitrobenzene			CAS #: 99-65-0					
7.066	7.368	(0.968)	168	62501	20.0000	18.9	70.00- 130.00	100.00
7.065	7.368	(0.968)	75	85331			98.40- 158.40	136.53
7.066	7.368	(0.968)	50	49780			177.84- 237.84	79.65

* 70 Acenaphthene-d10			CAS #: 15067-26-2					
7.302	7.305	(1.000)	164	654351	40.0000		80.00- 120.00	100.00
7.303	7.305	(1.000)	162	625911			64.73- 124.73	95.65
7.303	7.305	(1.000)	160	285340			12.46- 72.46	43.61

73 Pentachlorobenzene			CAS #: 608-93-5					
7.466	7.467	(1.022)	250	229597	20.0000	19.0	80.00- 120.00	100.00
7.465	7.467	(1.022)	252	147377			34.92- 94.92	64.19
7.464	7.467	(1.022)	108	62368			0.00- 56.94	27.16

77 1-Naphthylamine			CAS #: 134-32-7					
7.580	7.837	(1.038)	143	222767	20.0000	19.5	70.00- 130.00	100.00
7.579	7.837	(1.038)	115	126501			7143.21-7203.21	56.79

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====
77 1-Naphthylamine (continued)								
7.579	7.837	(1.038)	89	25949			2068.79-2128.79	11.65

78 2,3,4,6-Tetrachlorophenol CAS #: 58-90-2								
7.632	7.634	(1.045)	232	128151	20.0000	19.3	70.00- 130.00	100.00
7.631	7.634	(1.045)	168	32941			42.05- 102.05	25.70
7.631	7.634	(1.045)	131	52610			9.10- 69.10	41.05

79 2-Naphthylamine CAS #: 91-59-8								
7.657	7.837	(1.049)	143	299285	20.0000	20.0	70.00- 130.00	100.00
7.657	7.837	(1.049)	115	169479			7143.21-7203.21	56.63
7.657	7.837	(1.049)	116	65022			667.96- 727.96	21.73

83 5-Nitro-ortho-toluidine CAS #: 99-55-8								
7.852	7.896	(1.075)	152	112273	20.0000	19.3	70.00- 130.00	100.00
7.852	7.896	(1.075)	106	85327			505.60- 565.60	76.00
7.852	7.896	(1.075)	77	147933			735.48- 795.48	131.76

90 1,3,5-Trinitrobenzene CAS #: 99-35-4								
8.213	8.152	(1.125)	75	273166	20.0000	19.4	70.00- 130.00	100.00
8.213	8.152	(1.125)	74	172156			50.14- 110.14	63.02
8.214	8.152	(1.125)	213	103017			40.88- 100.88	37.71

89 Diallate CAS #: 2303-16-4								
8.231	8.081	(1.127)	86	154011	20.0000	19.0	70.00- 130.00	100.00(M)
8.231	8.081	(1.127)	43	153470			0.00- 38.70	99.65
8.231	8.081	(1.127)	234	105628			0.00- 39.00	68.58

92 Phenacetin CAS #: 62-44-2								
8.258	8.384	(0.943)	109	170760	20.0000	19.4	70.00- 130.00	100.00
8.258	8.384	(0.943)	108	191649			77.38- 137.38	112.23
8.258	8.384	(0.943)	179	109144			133.19- 193.19	63.92

91 p-Phenylenediamine CAS #: 106-50-3								
8.258	8.082	(0.943)	108	191649	20.0000	19.9	70.00- 130.00	100.00
8.257	8.082	(0.943)	80	56873			1858.68-1918.68	29.68
8.257	8.082	(0.943)	53	24265			5306.16-5366.16	12.66

97 Pentachloronitrobenzene CAS #: 82-68-8								
8.588	8.589	(0.980)	237	88960	20.0000	19.6	80.00- 120.00	100.00
8.588	8.589	(0.980)	295	31768			7.36- 67.36	35.71
8.587	8.589	(0.980)	142	64416			42.99- 102.99	72.41

98 4-Aminobiphenyl CAS #: 92-67-1								
8.573	8.584	(0.979)	169	442409	20.0000	20.3	70.00- 130.00	100.00
8.573	8.584	(0.979)	168	93574			0.00- 49.63	21.15
8.572	8.584	(0.979)	115	50672			0.00- 40.98	11.45

99 Pronamide CAS #: 23950-58-5								
8.628	8.781	(0.985)	173	218389	20.0000	20.1	70.00- 130.00	100.00
8.629	8.781	(0.985)	175	132945			2051.90-2111.90	60.88
8.628	8.781	(0.985)	145	82624			63.94- 123.94	37.83

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 100 Phenanthrene-d10					CAS #: 1517-22-2				
8.759	8.761	(1.000)	188	1261678	40.0000		80.00- 120.00	100.00	
8.758	8.761	(1.000)	94	81032			0.00- 36.35	6.42	
8.759	8.761	(1.000)	80	97038			0.00- 37.82	7.69	

102 Dinoseb					CAS #: 88-85-7				
8.751	8.753	(0.999)	211	121873	20.0000	19.0	80.00- 120.00	100.00	
8.750	8.753	(0.999)	163	43671			7.77- 67.77	35.83	
8.751	8.753	(0.999)	117	26566			0.00- 52.05	21.80	

106 4-Nitroquinoline-1-oxide					CAS #: 56-57-5				
9.539	9.334	(1.089)	174	7560	20.0000	21.2	70.00- 130.00	100.00(Q)	
9.540	9.334	(1.089)	128	16343			429.24- 489.24	216.18	
9.540	9.334	(1.089)	101	24825			988.96-1048.96	328.37	

107 Methapyrilene					CAS #: 91-80-5				
9.609	10.322	(1.097)	97	8443	20.0000	20.0	70.00- 130.00	100.00	
9.608	10.322	(1.097)	58	8116			11.52- 71.52	96.13	
9.610	10.322	(1.097)	191	2118			0.00- 52.18	25.09	

108 Isodrin					CAS #: 465-73-6				
9.801	10.279	(1.119)	193	78003	20.0000	20.3	70.00- 130.00	100.00	
9.799	10.279	(1.119)	66	73888			17952.44-18012.44	94.72	
9.801	10.279	(1.119)	195	62717			1135.23-1195.23	80.40	

113 Aramite					CAS #: 140-57-8				
10.368	10.370	(0.913)	185	74629	20.0000	19.9	80.00- 120.00	100.00(M)	
10.293	10.370	(0.907)	191	39225			21.78- 81.78	52.56	
10.293	10.370	(0.907)	319	26819			6.67- 66.67	35.94	

114 p-Dimethylamino azobenzene					CAS #: 60-11-7				
10.458	10.323	(0.921)	225	174502	20.0000	18.8	70.00- 130.00	100.00	
10.457	10.323	(0.921)	120	155643			99.50- 159.50	89.19	
10.457	10.323	(0.921)	77	184401			9.48- 69.48	105.67	

115 Chlorobenzilate					CAS #: 510-15-6				
10.501	10.503	(0.925)	251	264701	20.0000	18.5	80.00- 120.00	100.00	
10.502	10.503	(0.925)	253	172944			35.78- 95.78	65.34	
10.500	10.503	(0.925)	139	244555			60.72- 120.72	92.39	

116 Kepone					CAS #: 143-50-0				
10.838	10.840	(0.955)	272	52036	20.0000	21.2	80.00- 120.00	100.00(M)	
10.840	10.840	(0.955)	274	36225			51.74- 111.74	69.62	
10.840	10.840	(0.955)	237	28981			0.00- 59.52	55.69	

117 3,3-Dimethylbenzidine					CAS #: 119-93-7				
10.790	10.799	(0.950)	212	577536	20.0000	20.5	70.00- 130.00	100.00	
10.789	10.799	(0.950)	106	35000			2299.94-2359.94	6.06	
10.790	10.799	(0.950)	180	42519			6.44- 66.44	7.36	

119 2-Acetylaminofluorene					CAS #: 53-96-3				
11.036	10.324	(0.972)	181	301020	20.0000	18.6	70.00- 130.00	100.00	
11.036	10.324	(0.972)	223	204629			491.83- 551.83	67.98	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
119 2-Acetylaminofluorene (continued)									
11.036	10.324	(0.972)	180	259299			639.65- 699.65	86.14	

* 121 Chrysene-d12					CAS #: 1719-03-5				
11.353	11.359	(1.000)	240	1573281	40.0000		80.00- 120.00	100.00	
11.351	11.359	(1.000)	120	82542			0.00- 36.38	5.25	
11.353	11.359	(1.000)	236	425725			0.00- 57.06	27.06	

126 7,12-Dimethylbenz(a)anthracen					CAS #: 57-97-6				
12.317	12.088	(0.972)	256	423733	20.0000	18.8	70.00- 130.00	100.00	
12.317	12.088	(0.972)	241	233045			77.87- 137.87	55.00	
12.317	12.088	(0.972)	239	189843			73.24- 133.24	44.80	

* 130 Perylene-d12					CAS #: 1520-96-3				
12.678	12.682	(1.000)	264	1582888	40.0000		80.00- 120.00	100.00	
12.678	12.682	(1.000)	260	382287			0.00- 54.80	24.15	
12.677	12.682	(1.000)	265	364398			0.00- 53.39	23.02	

131 3-Methylcholanthrene					CAS #: 56-49-5				
12.939	12.847	(1.021)	268	489249	20.0000	19.3	70.00- 130.00	100.00	
12.939	12.847	(1.021)	252	203283			13.23- 73.23	41.55	
12.939	12.847	(1.021)	253	178714			6.61- 66.61	36.53	

132 Dibenz(a,j)acridine					CAS #: 224-42-0				
13.531	13.755	(1.067)	279	724158	20.0000	19.8	70.00- 130.00	100.00	
13.530	13.755	(1.067)	280	167572			0.00- 41.79	23.14	
13.531	13.755	(1.067)	277	107869			93.47- 153.47	14.90	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
 M - Compound response manually integrated.

Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

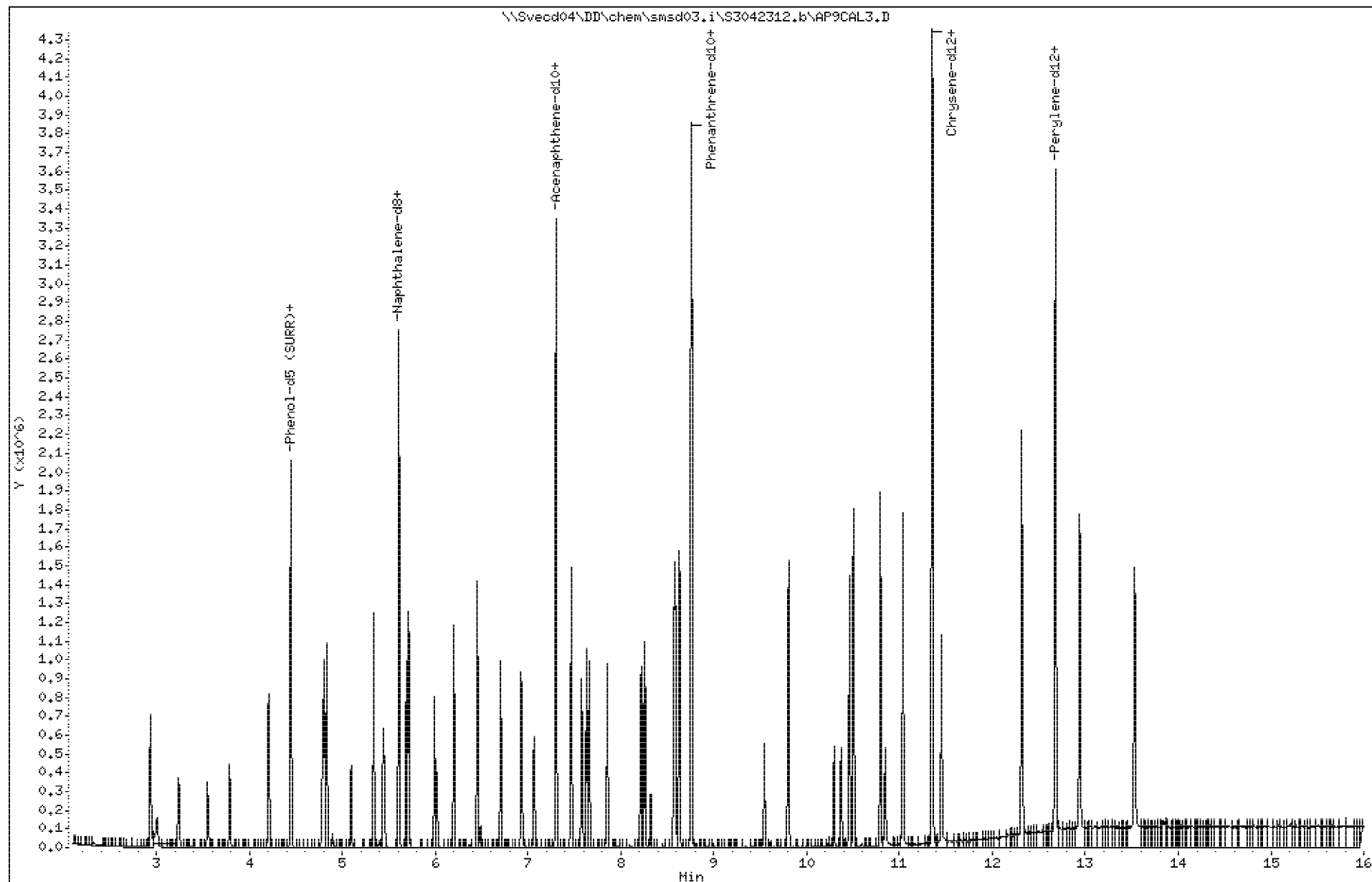
Sample Info: 45959

Operator: PEL

Purge Volume: 1000.0

Column diameter: 0.25

Column phase: HPMS-5



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

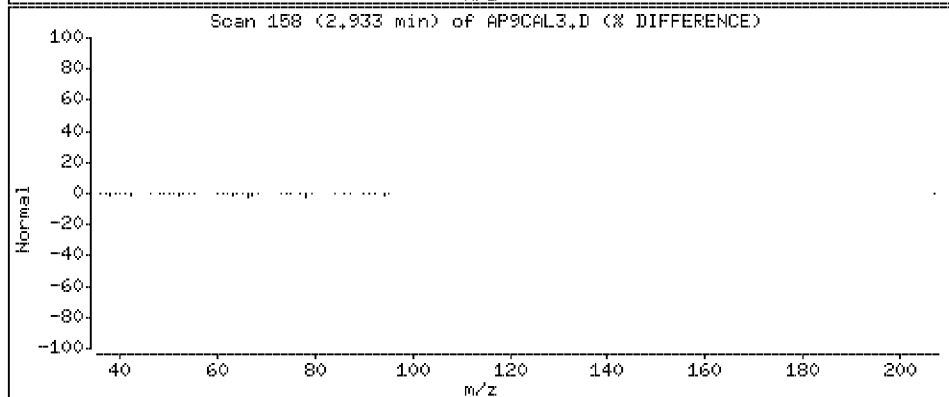
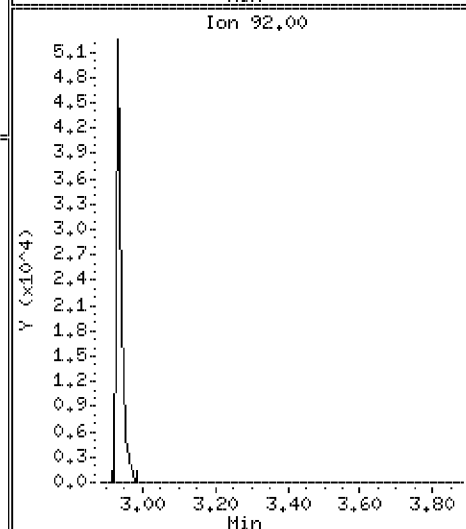
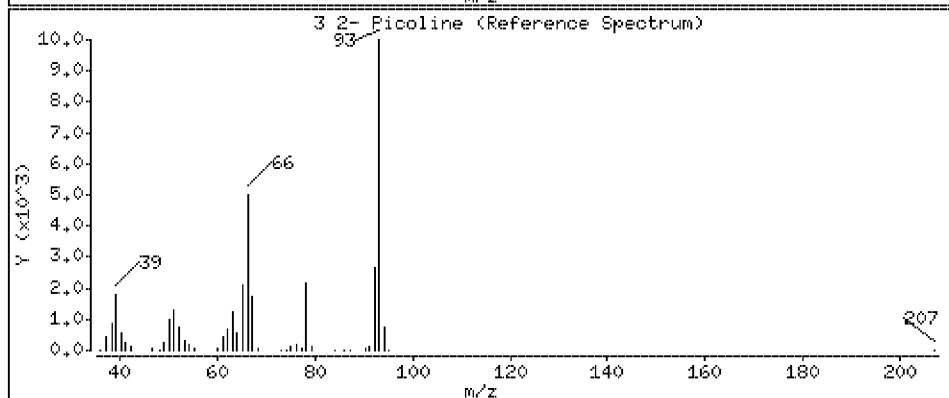
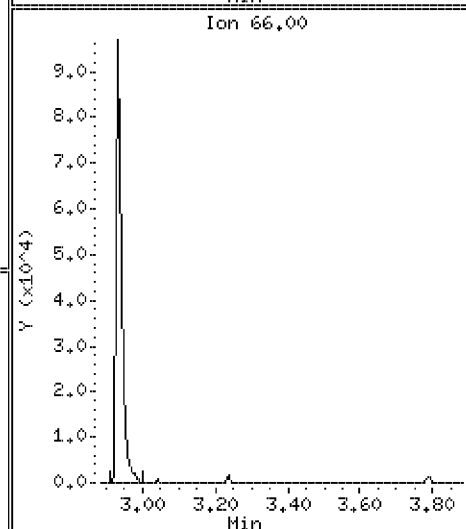
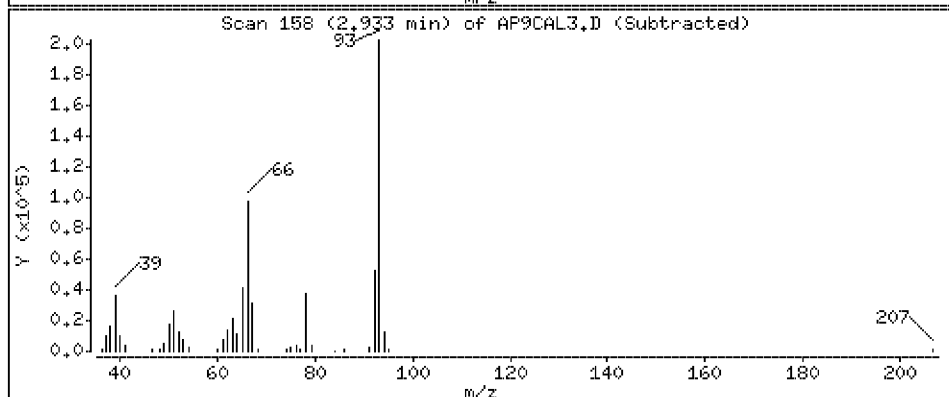
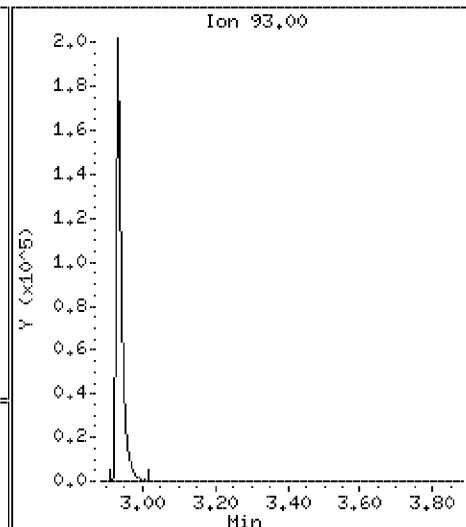
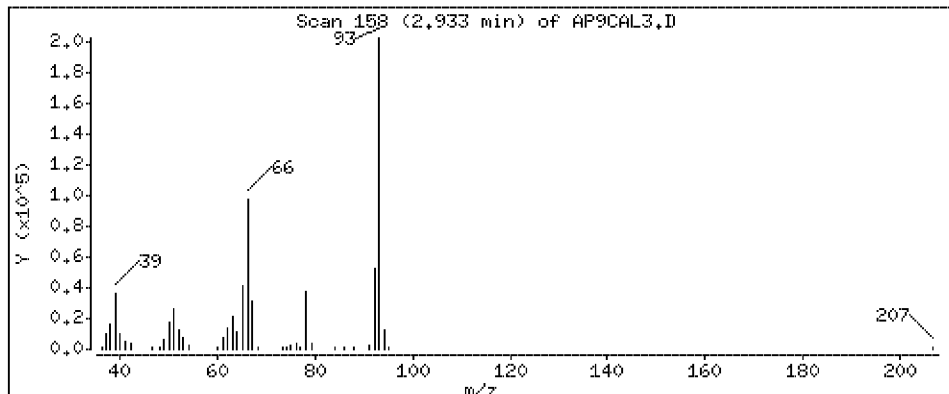
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

3 2- Picoline

Concentration: 19.9 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

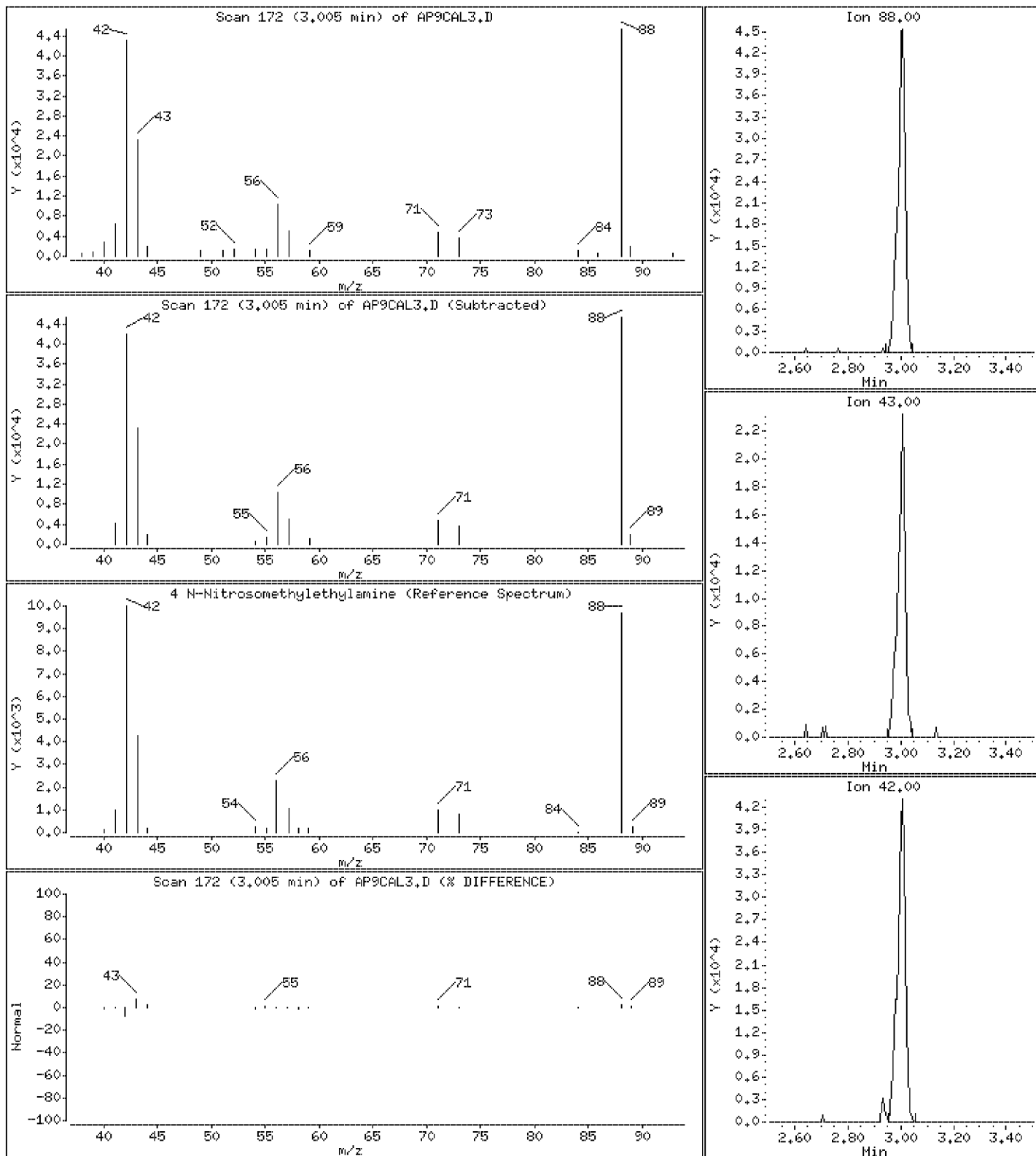
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

4 N-Nitrosomethylethylamine

Concentration: 20.3 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

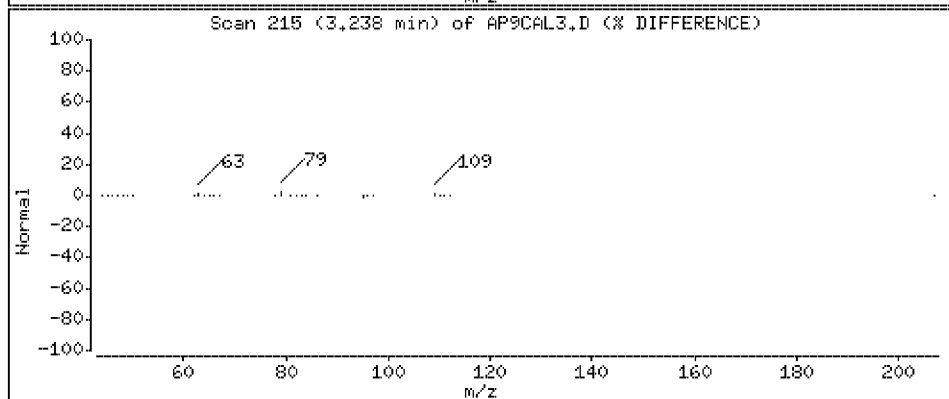
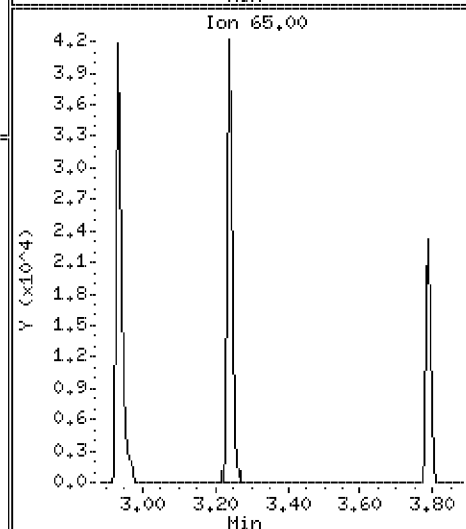
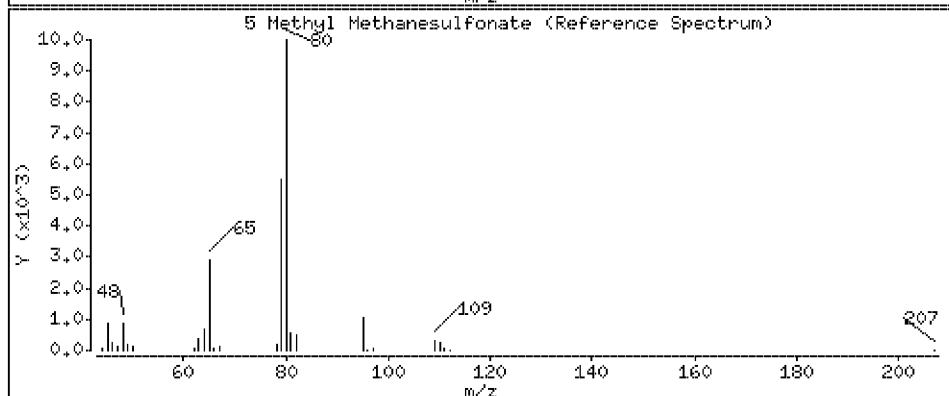
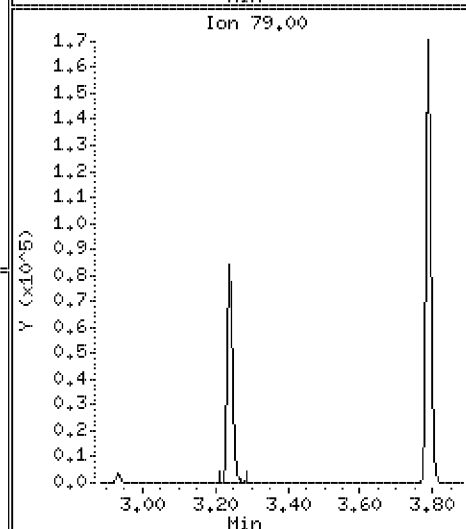
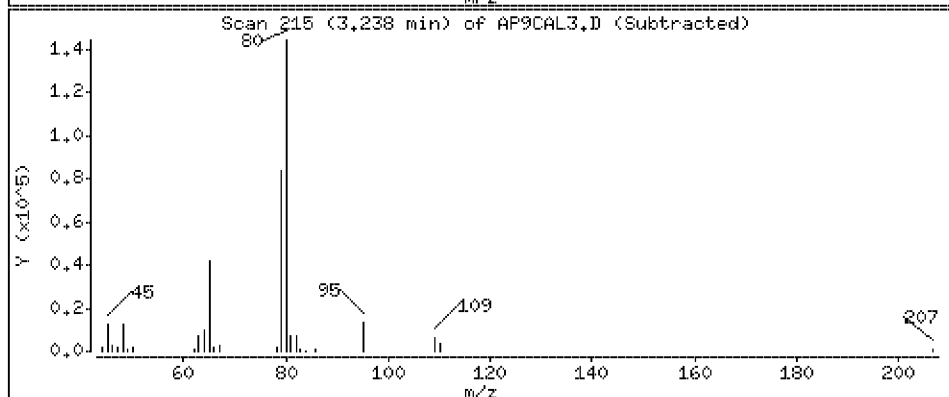
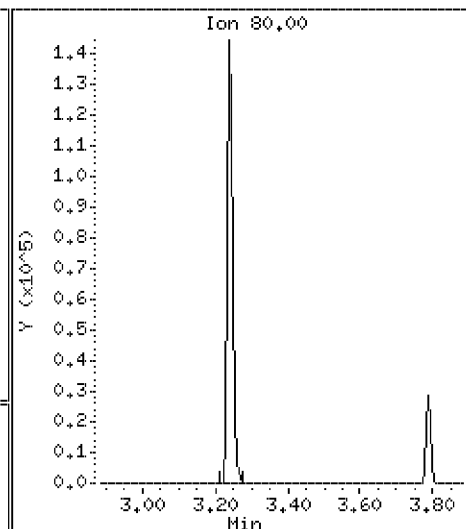
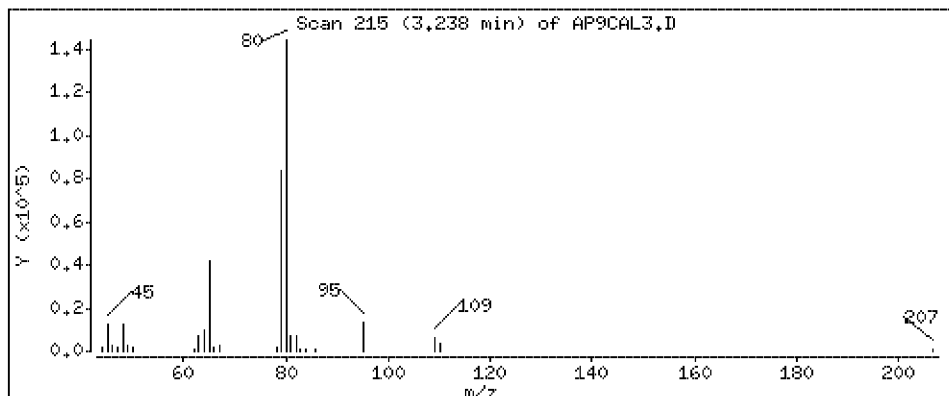
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

5 Methyl Methanesulfonate

Concentration: 20.0 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

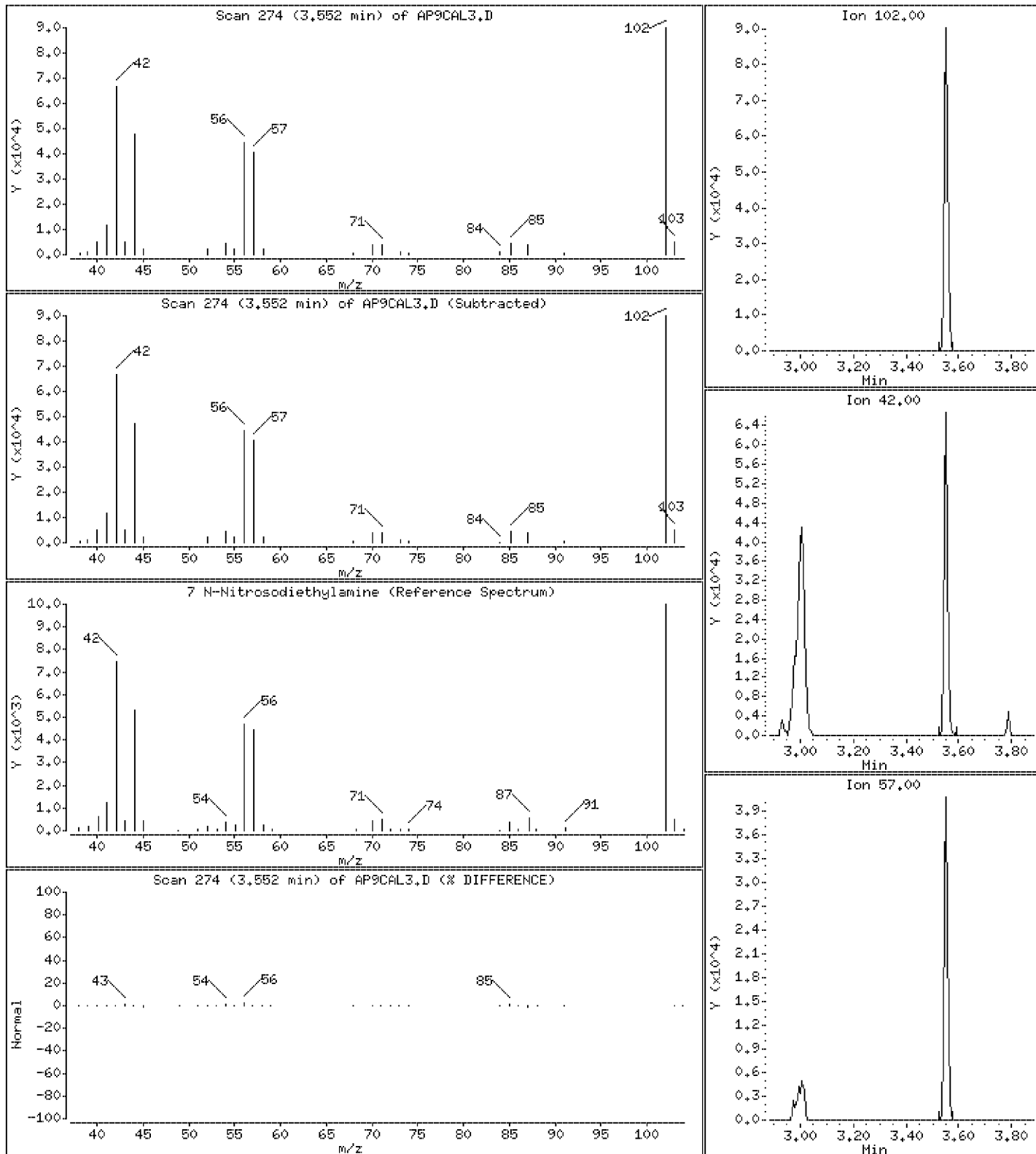
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

7 N-Nitrosodiethylamine

Concentration: 19.5 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

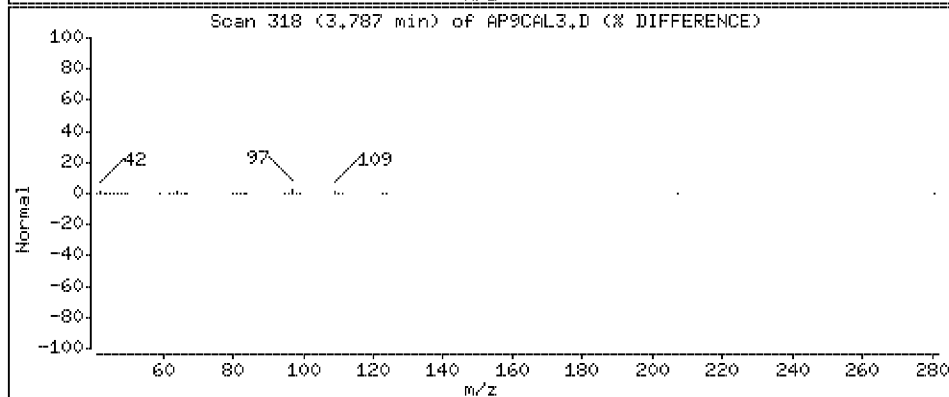
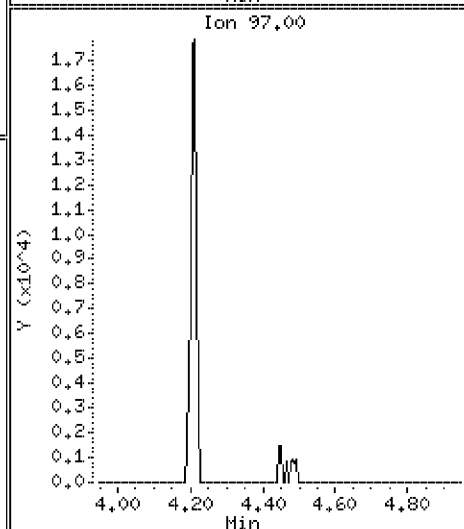
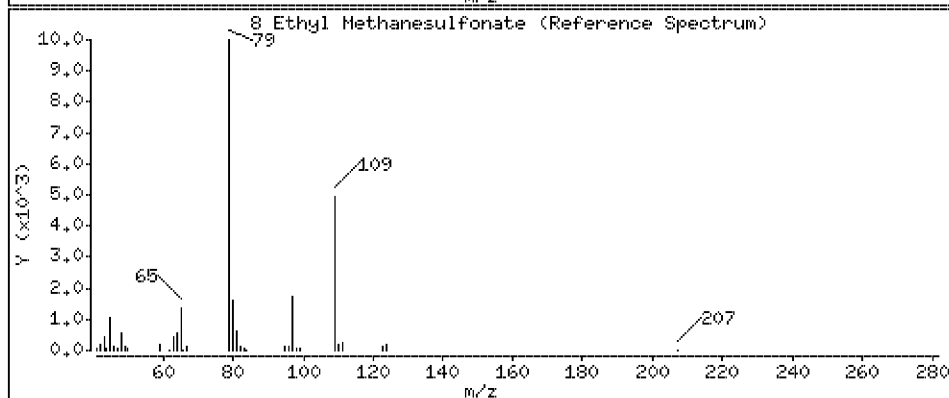
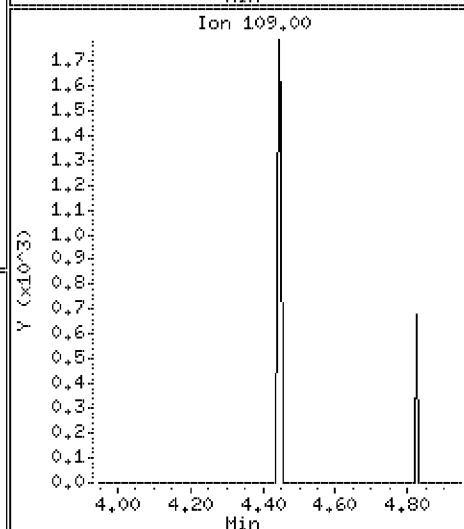
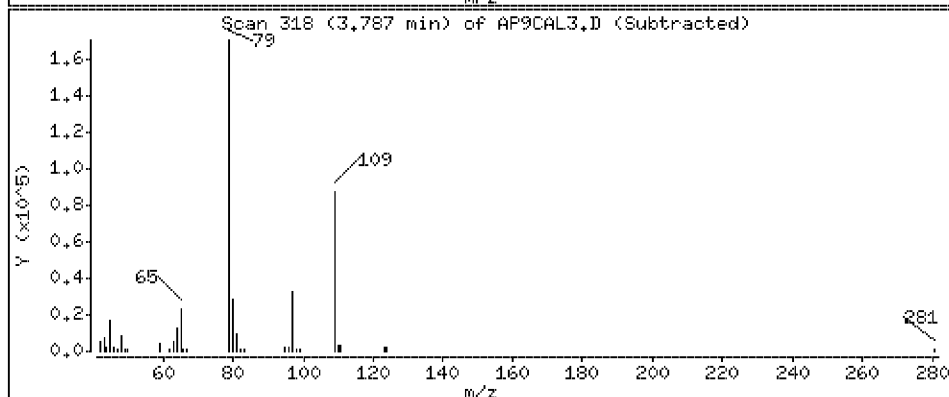
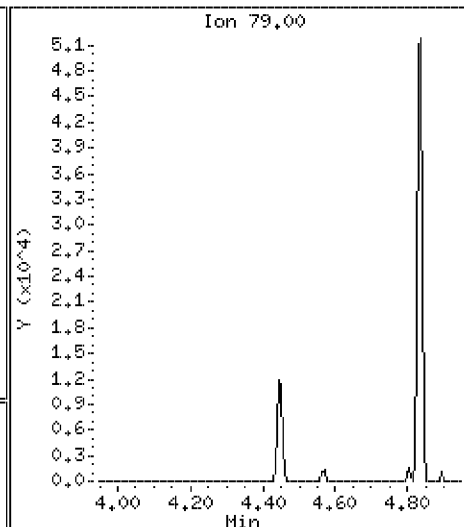
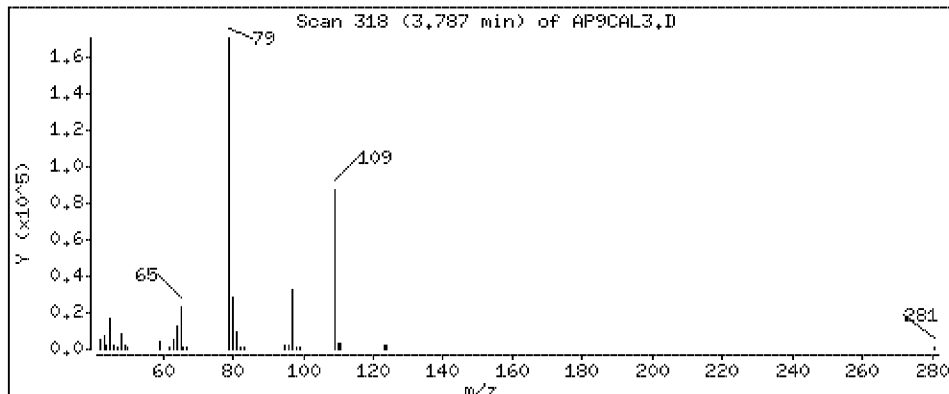
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

8 Ethyl Methanesulfonate

Concentration: 20,5 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

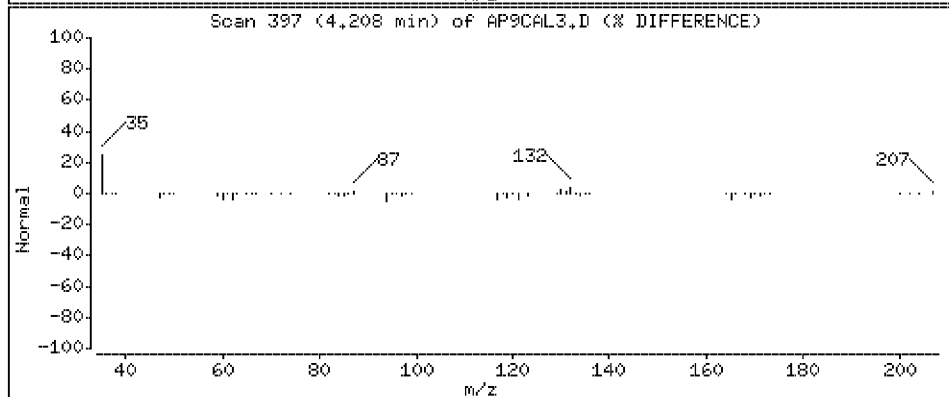
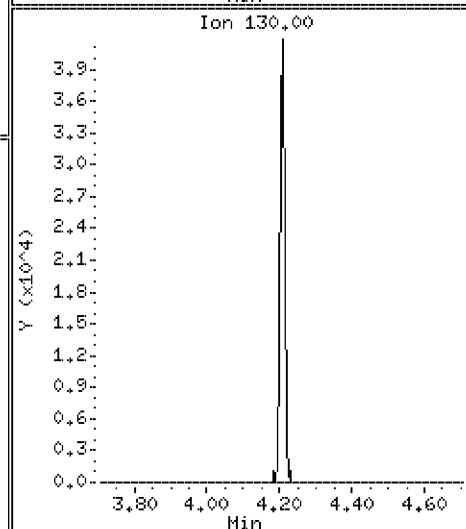
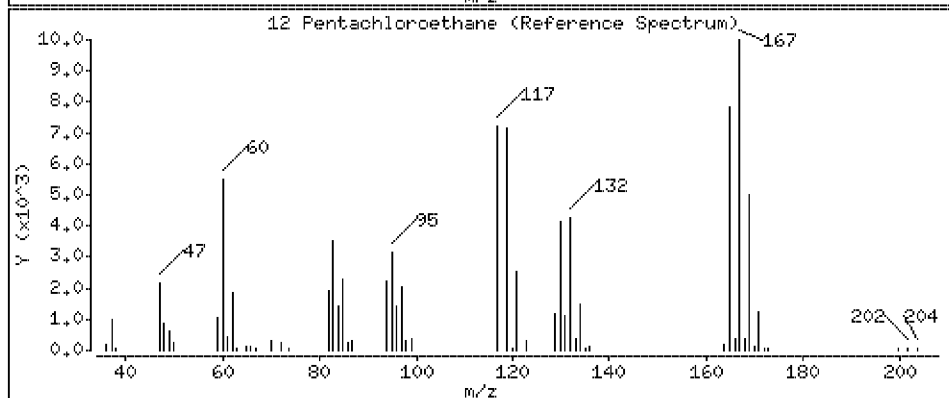
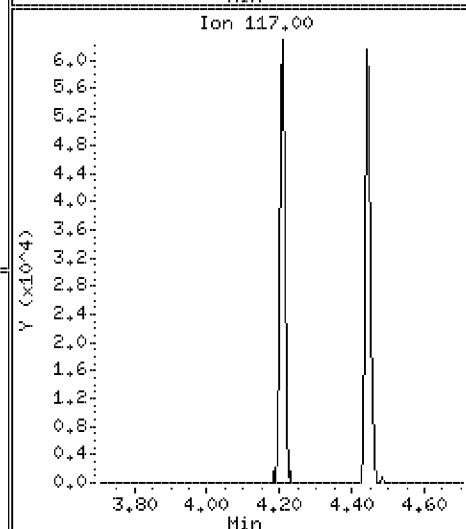
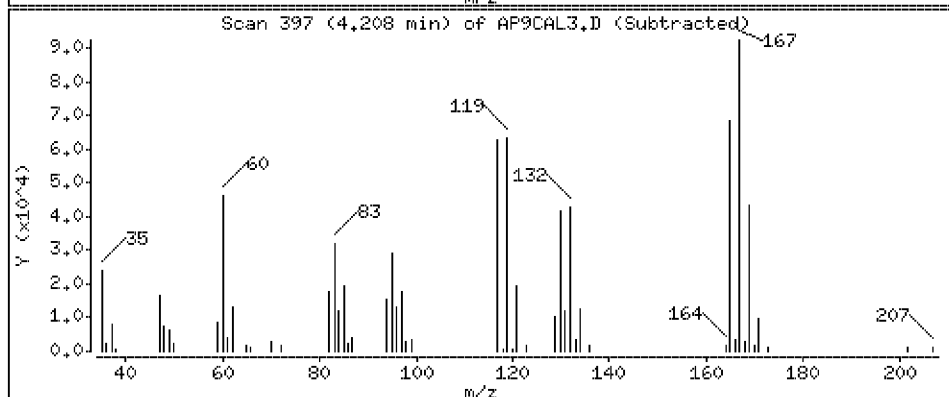
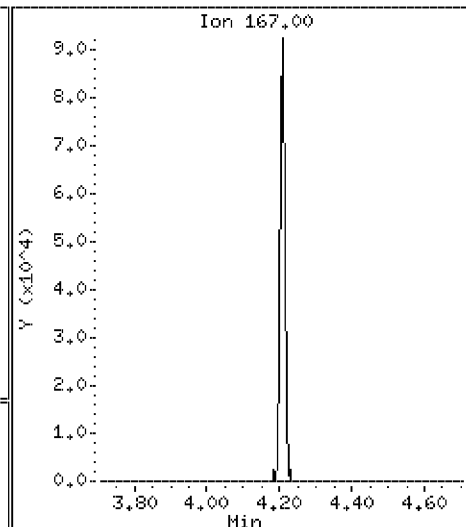
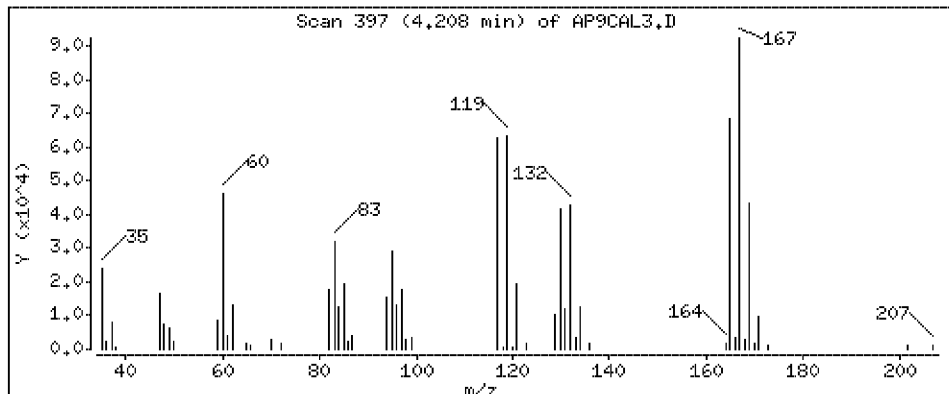
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

12 Pentachloroethane

Concentration: 19.6 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

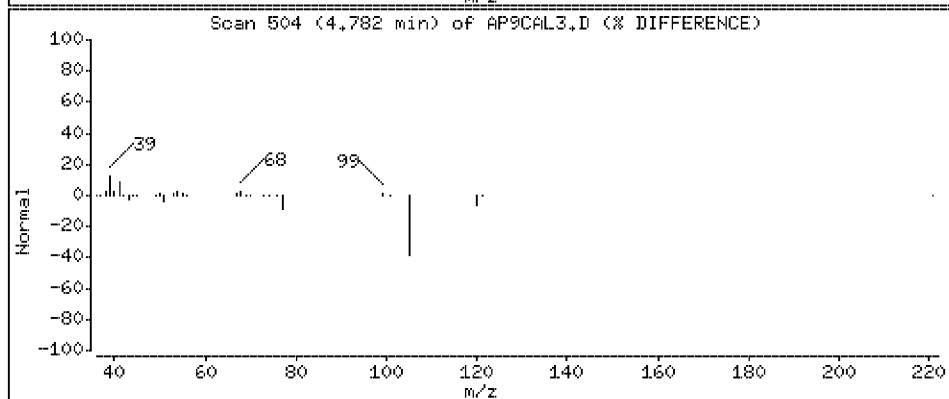
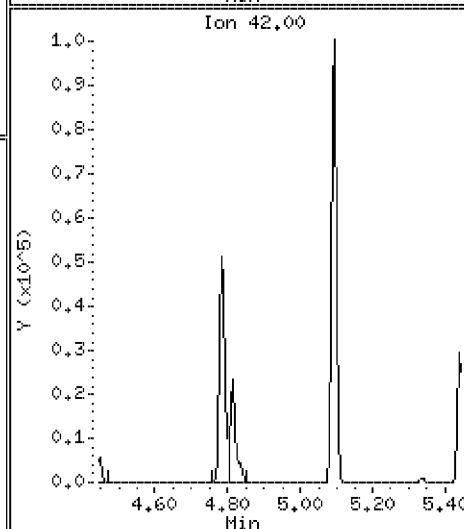
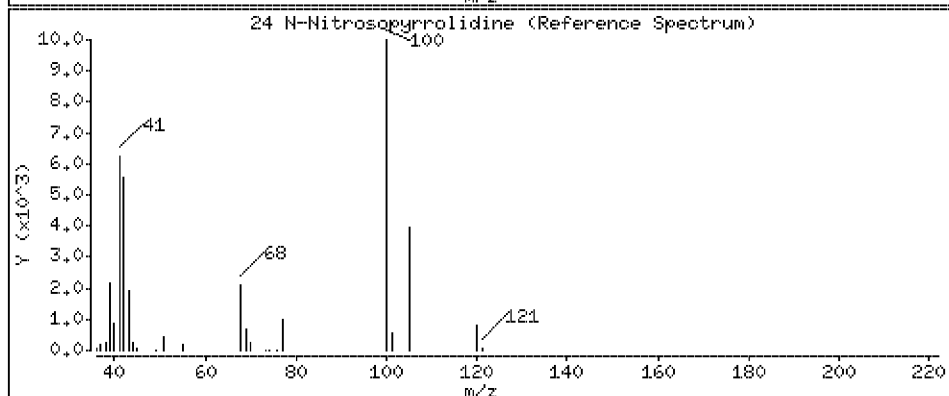
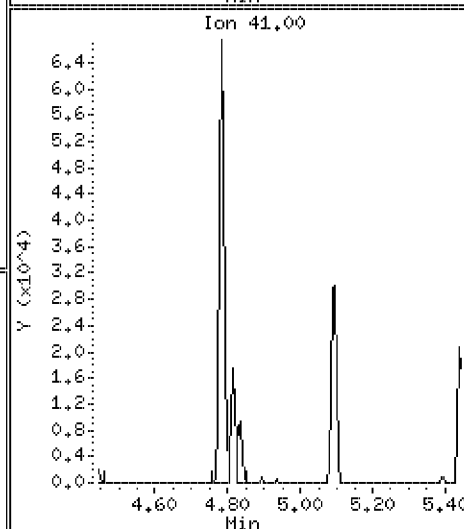
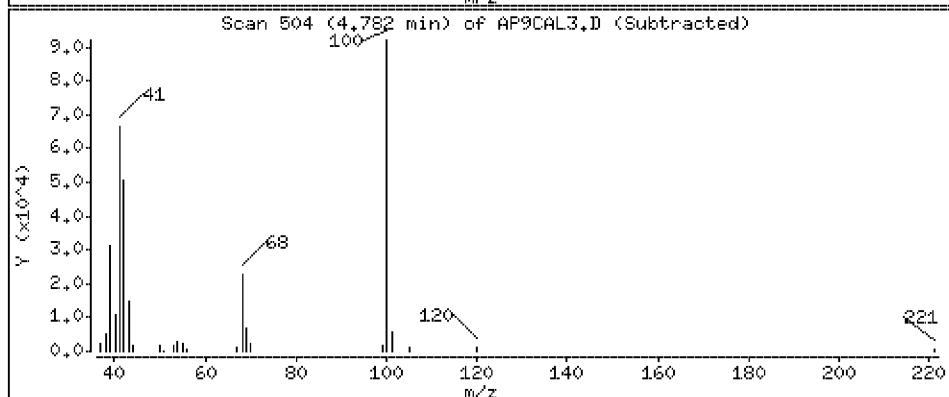
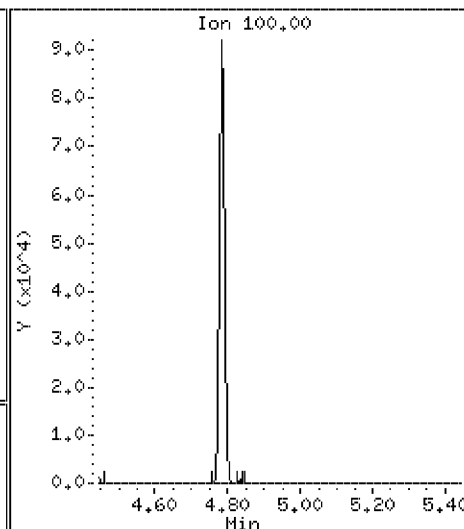
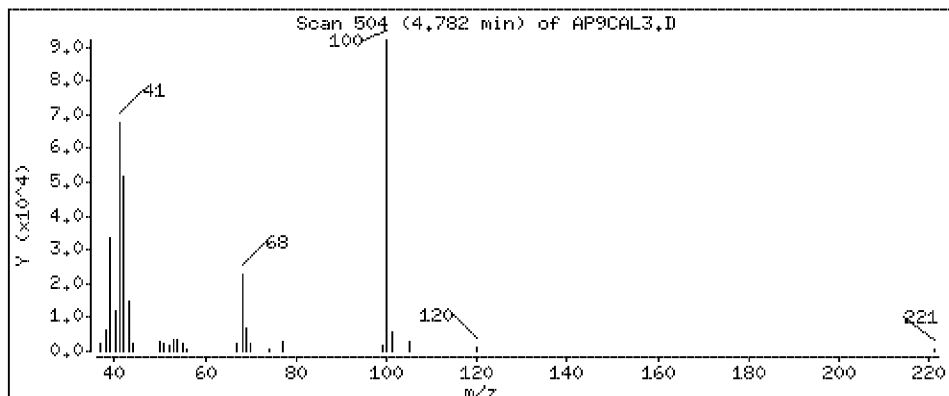
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

24 N-Nitrosopyrrolidine

Concentration: 19.4 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

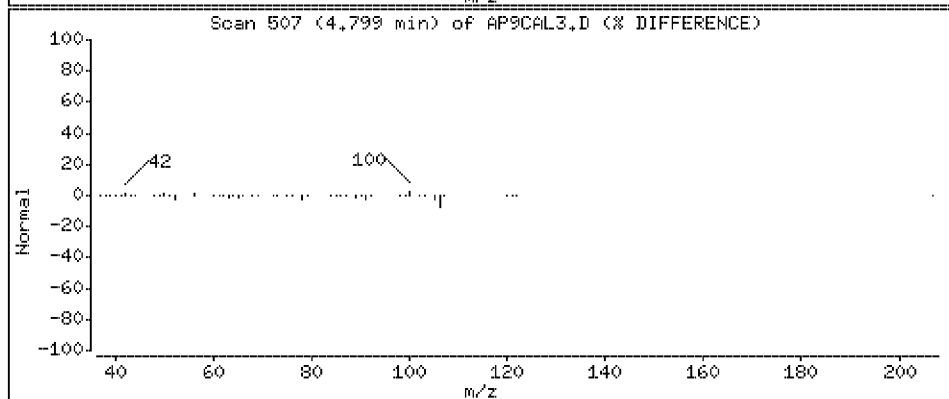
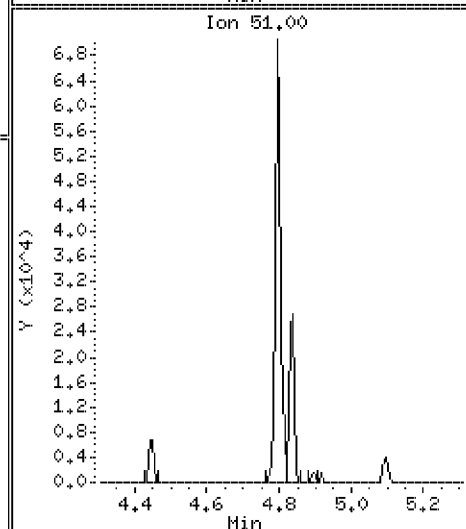
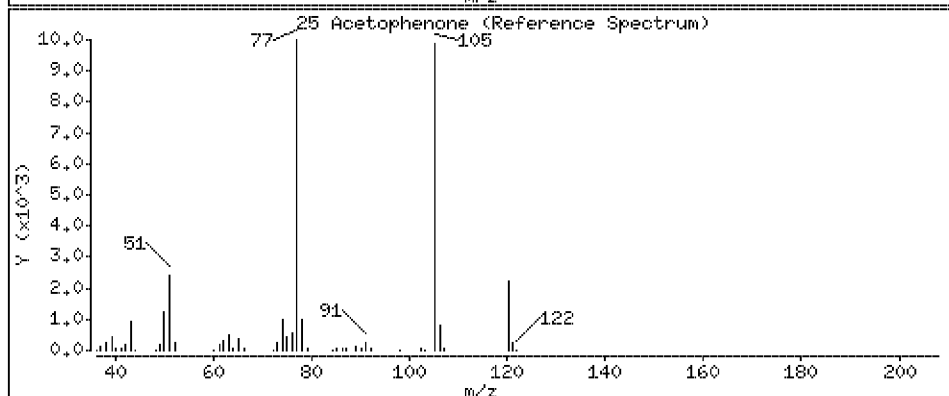
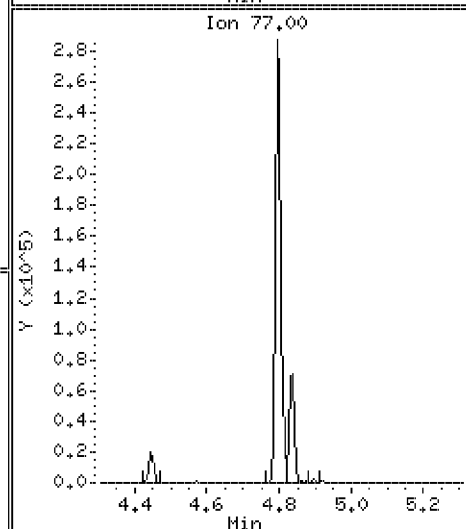
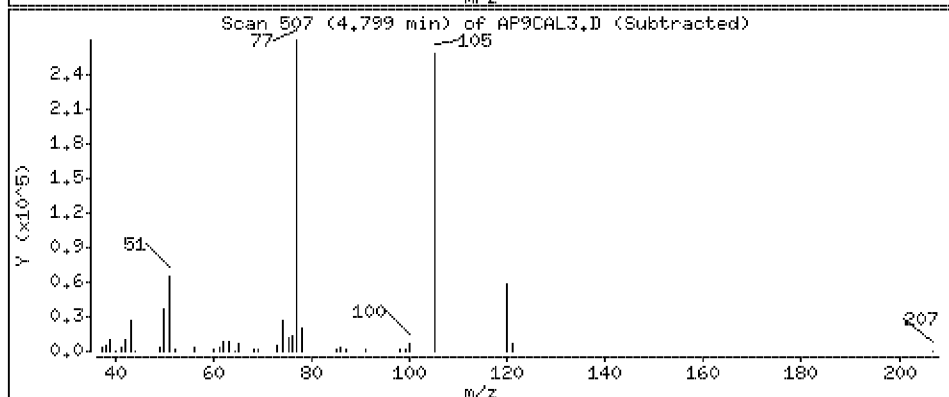
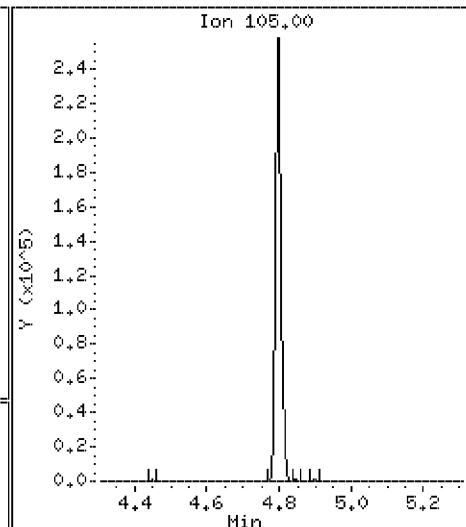
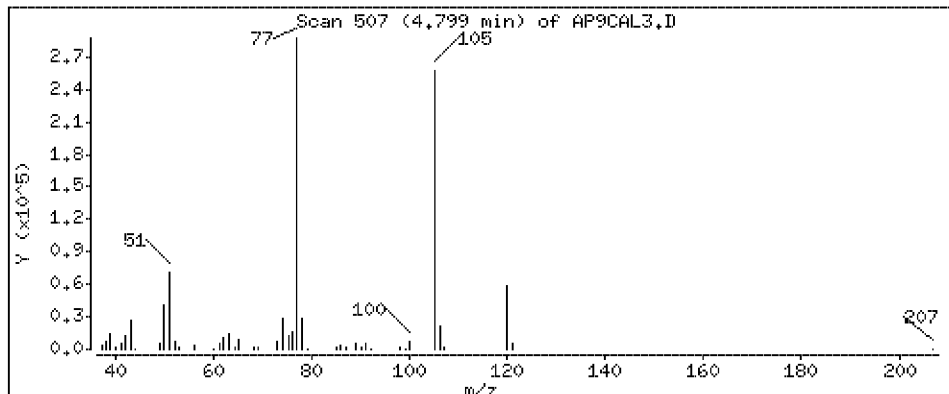
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

25 Acetophenone

Concentration: 18.3 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

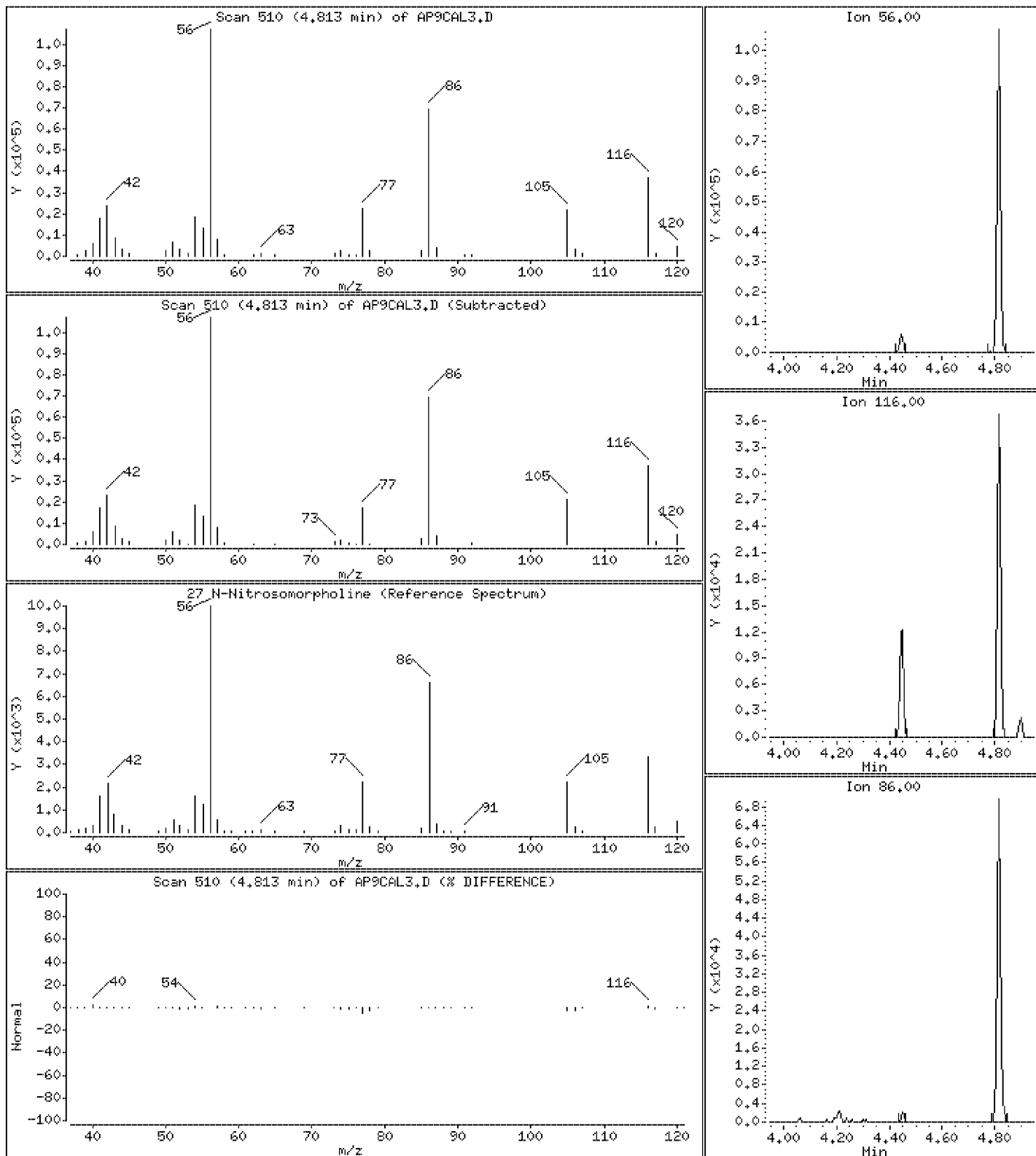
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

27 N-Nitrosomorpholine

Concentration: 19.8 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

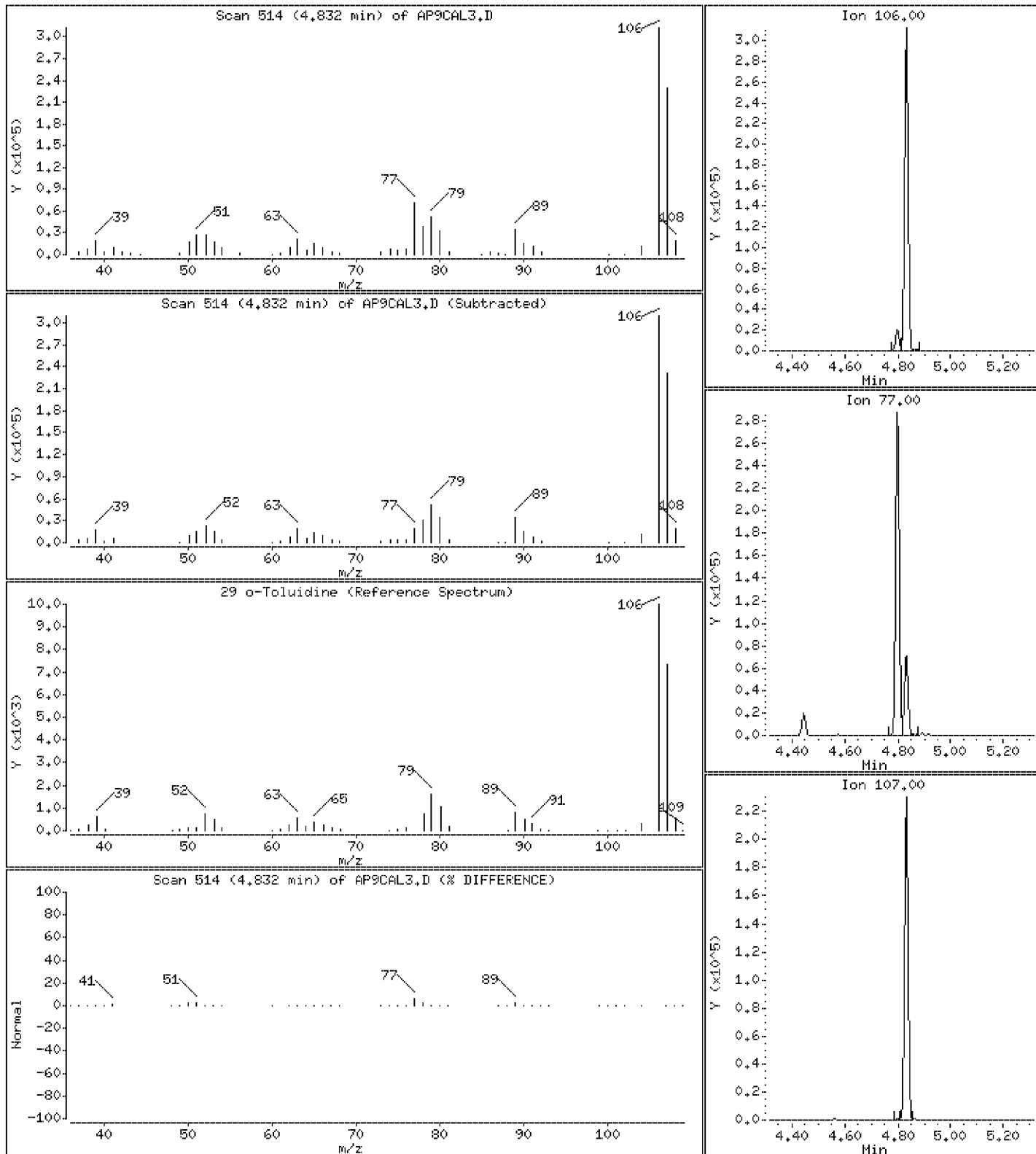
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

29 o-Toluidine

Concentration: 19.5 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

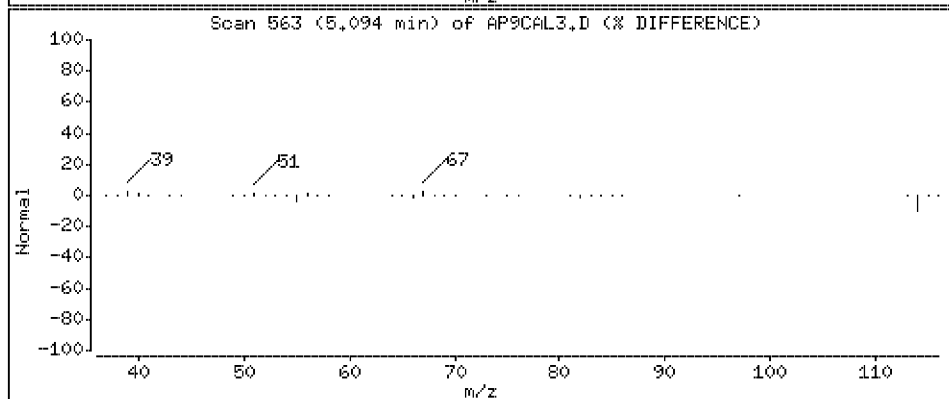
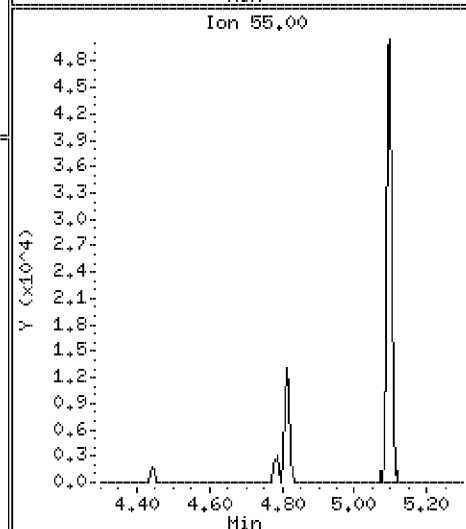
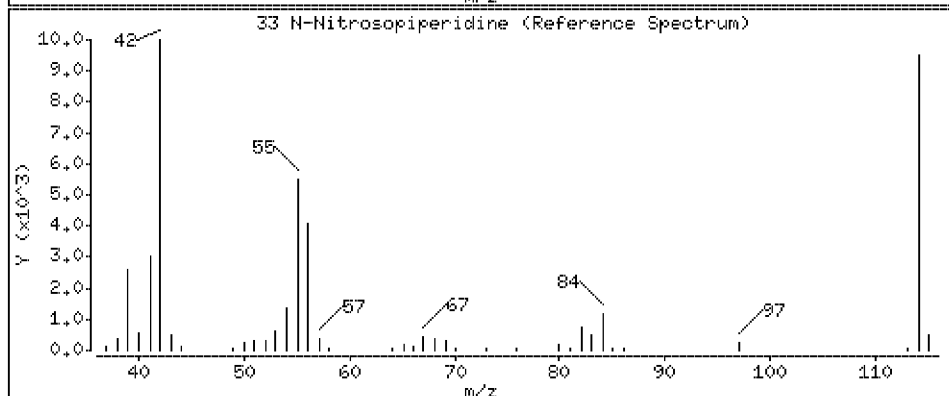
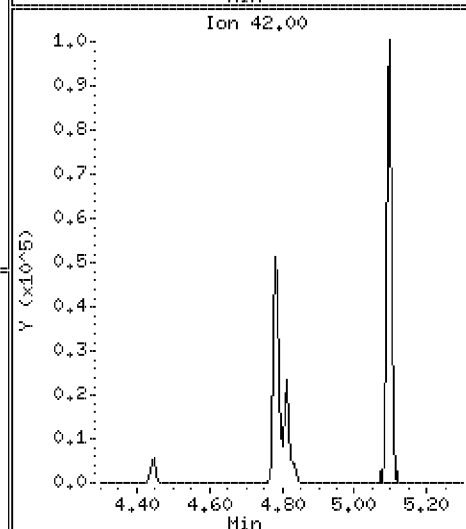
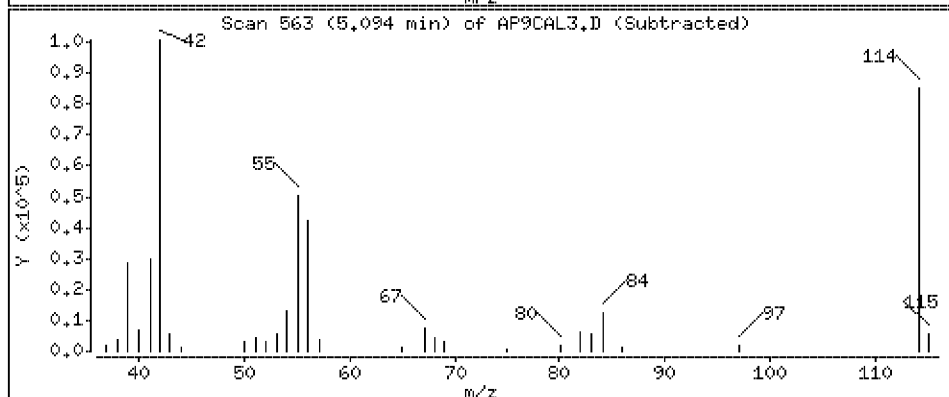
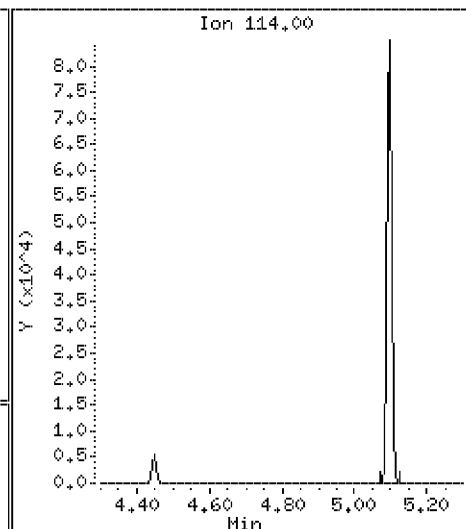
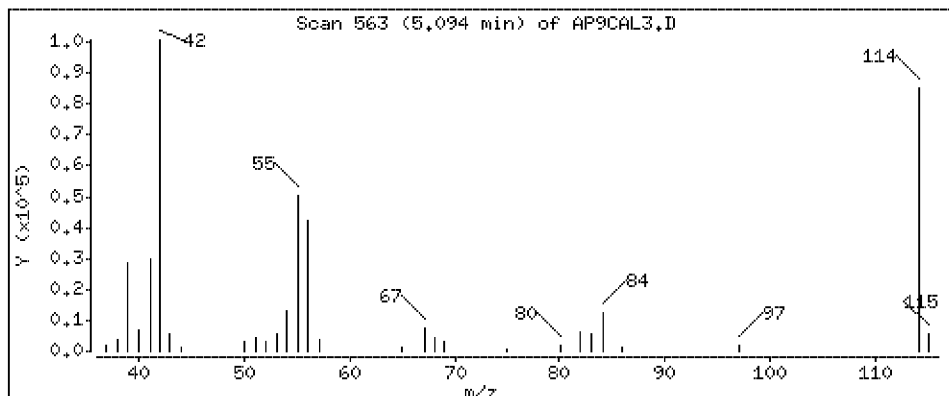
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

33 N-Nitrosopiperidine

Concentration: 18.4 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

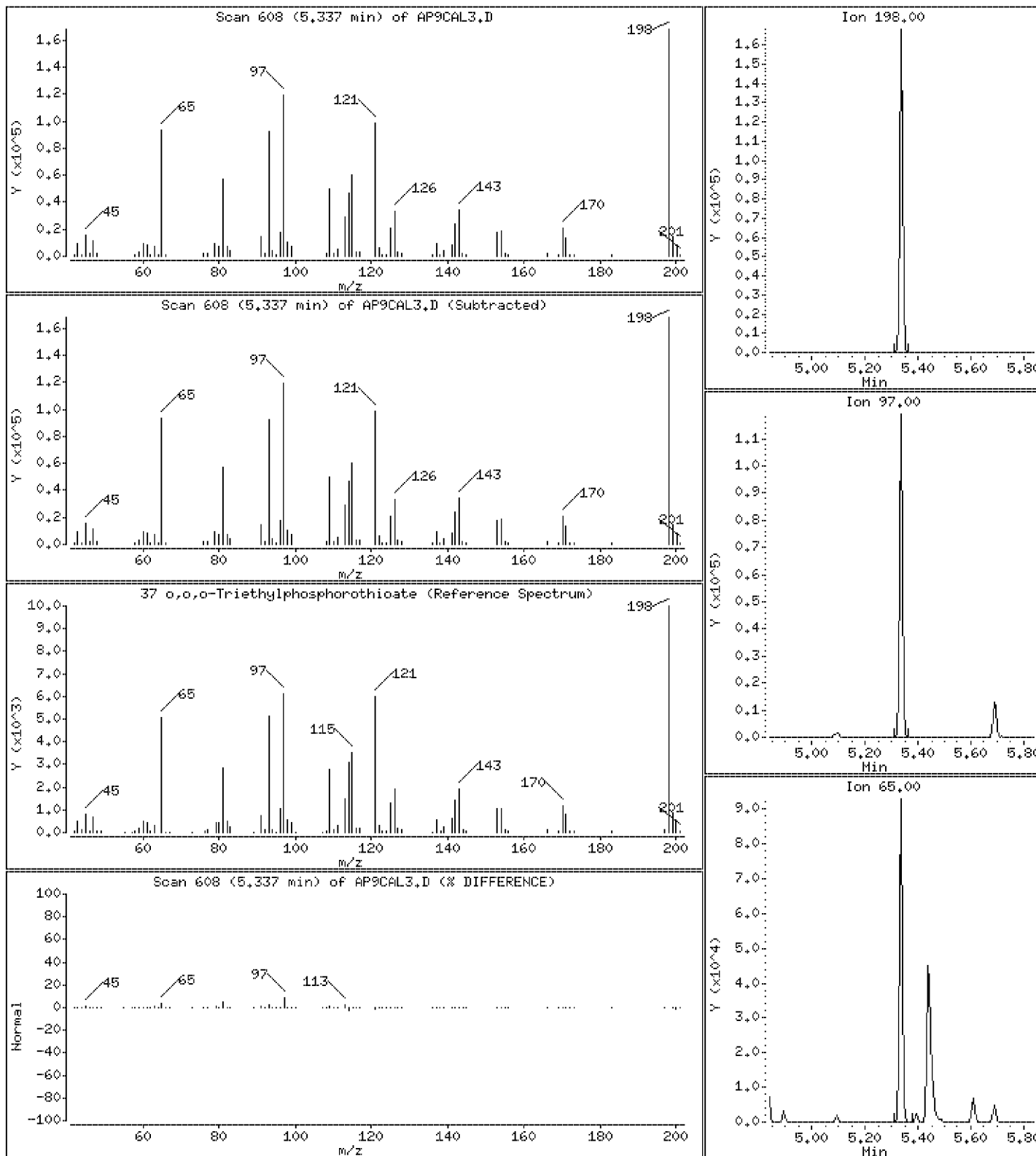
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

37 o,o,o-Triethylphosphorothioate

Concentration: 18.7 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

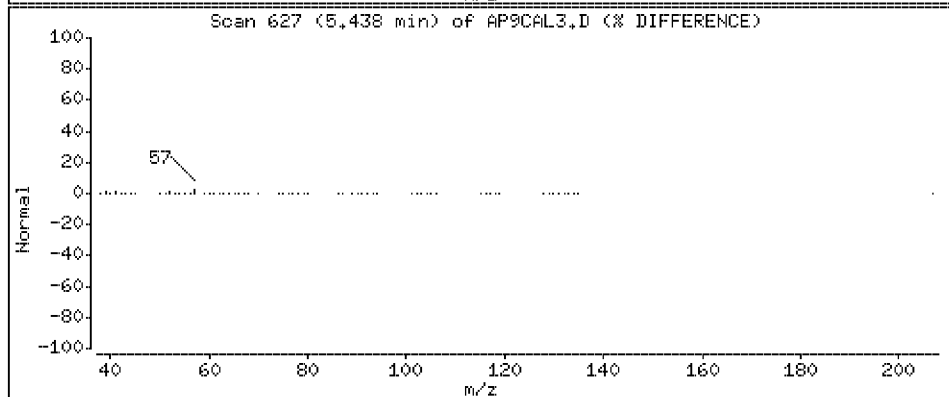
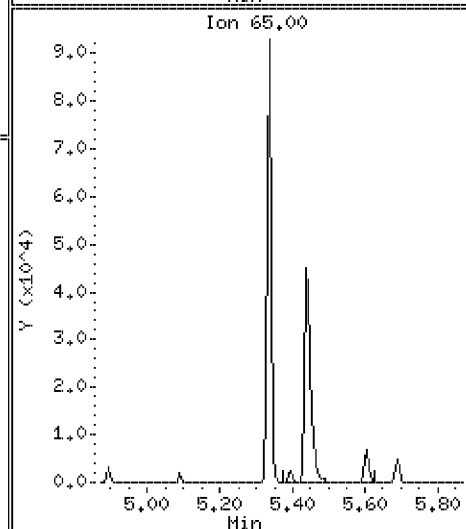
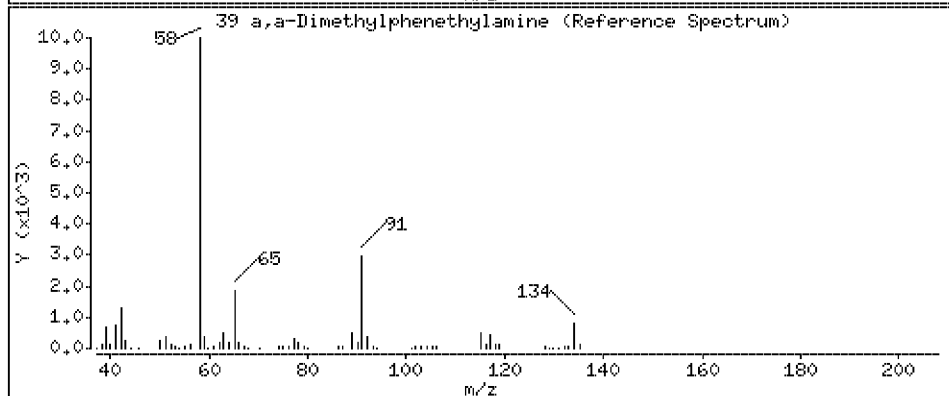
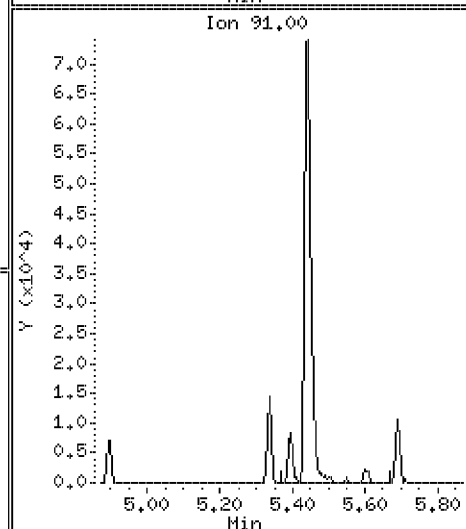
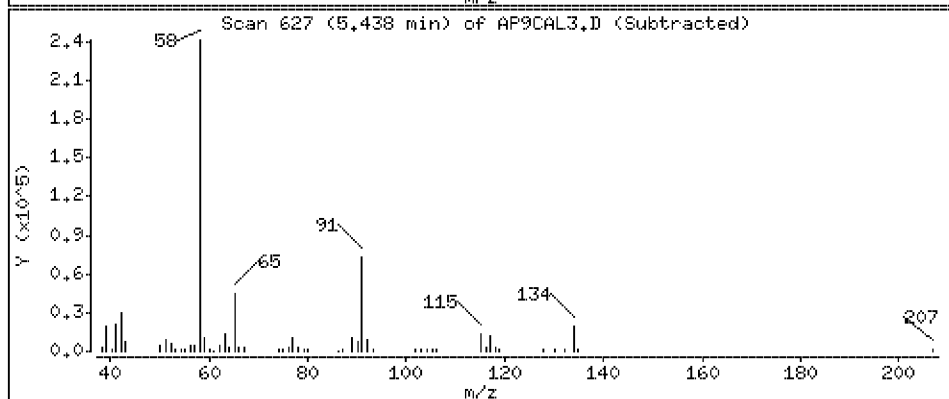
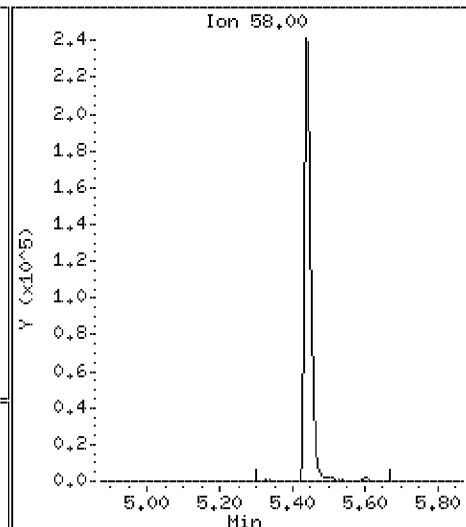
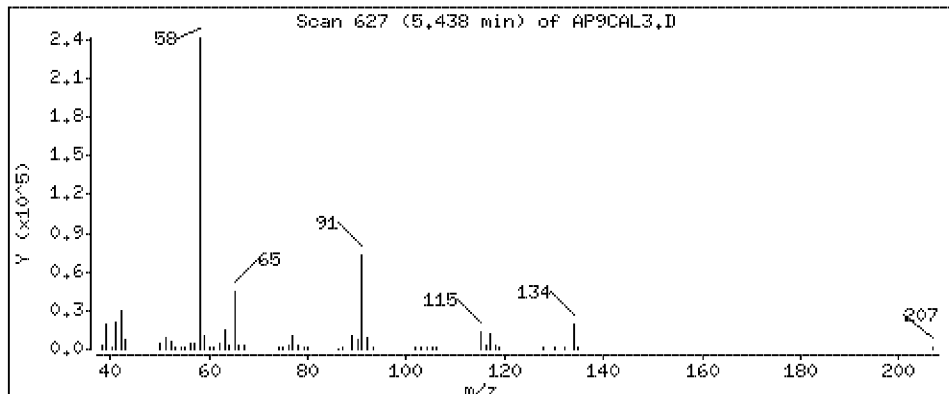
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

39 a,a-Dimethylphenethylamine

Concentration: 20.0 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

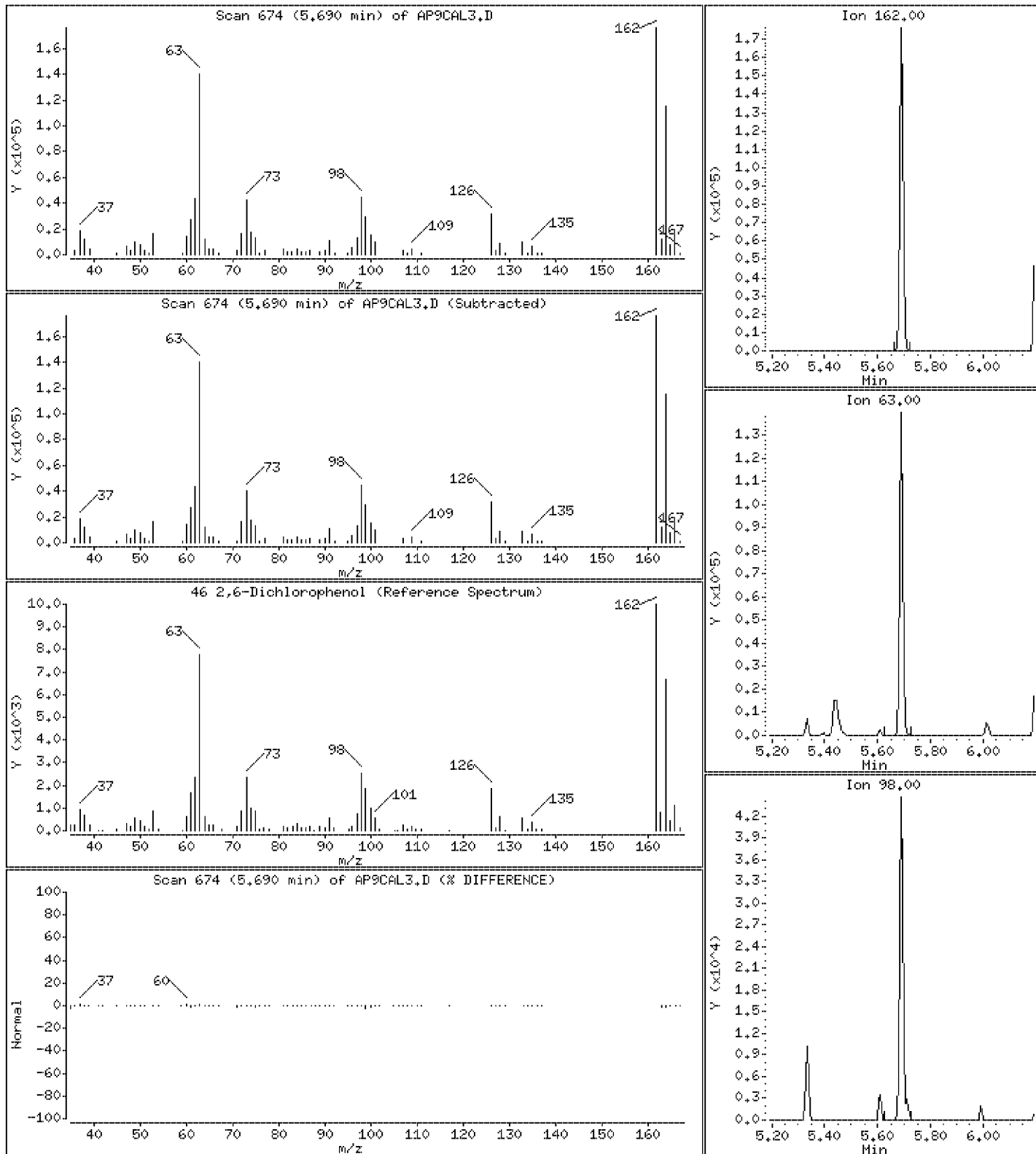
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

46 2,6-Dichlorophenol

Concentration: 19.1 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

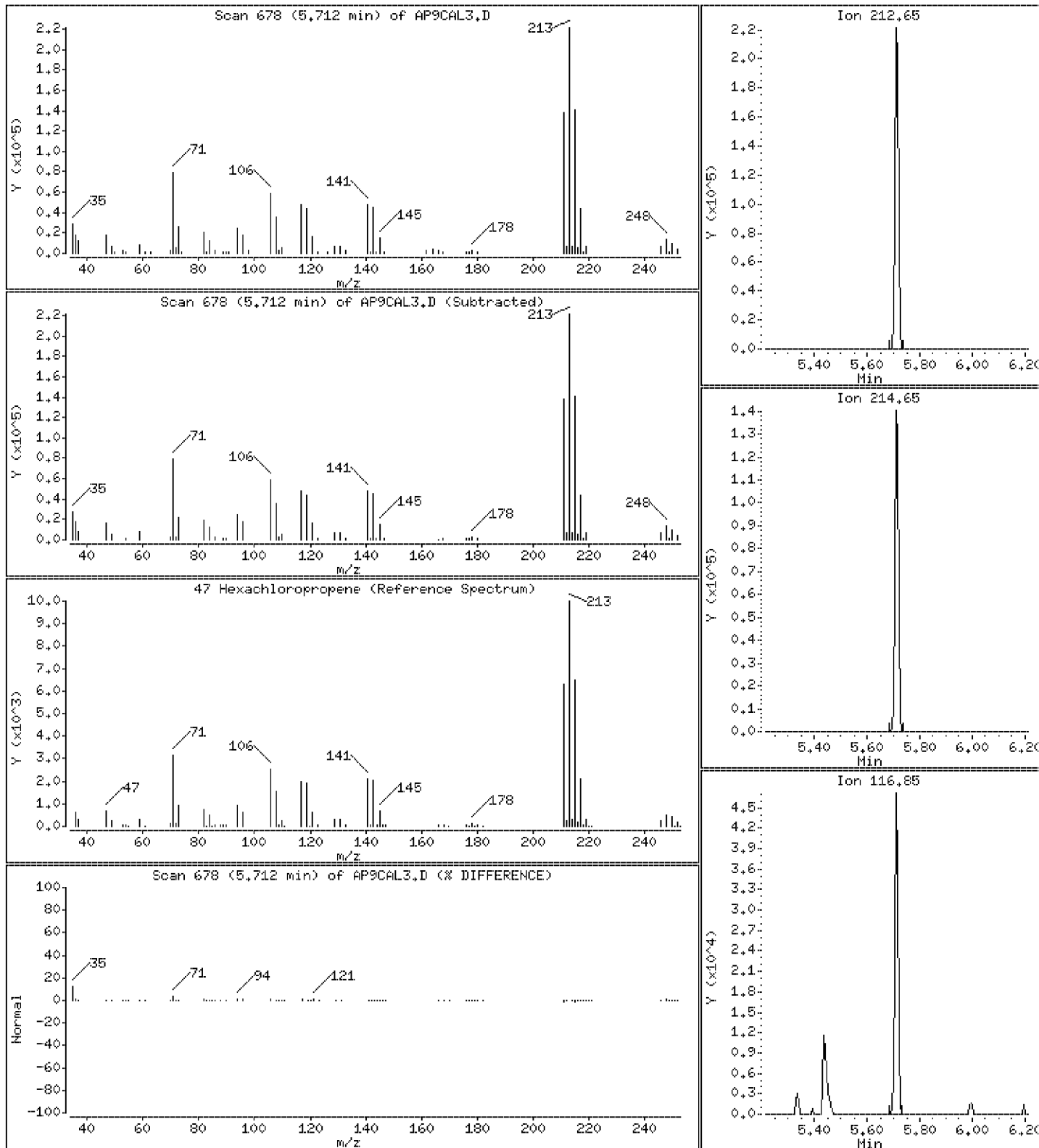
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

47 Hexachloropropene

Concentration: 18.4 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

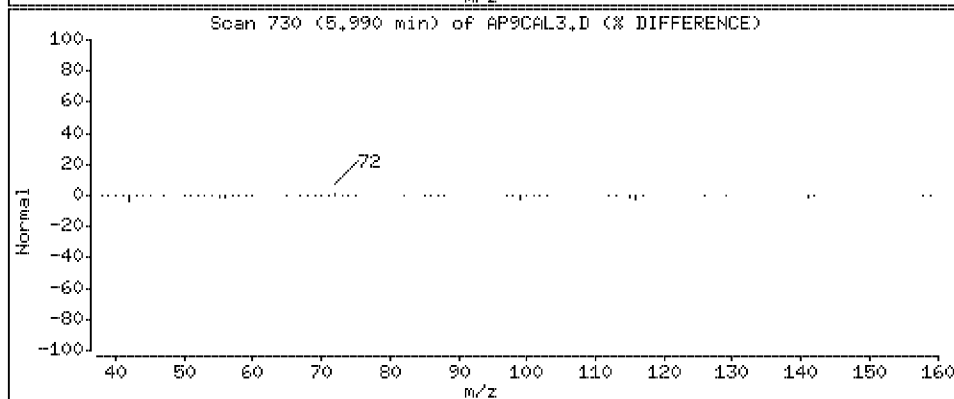
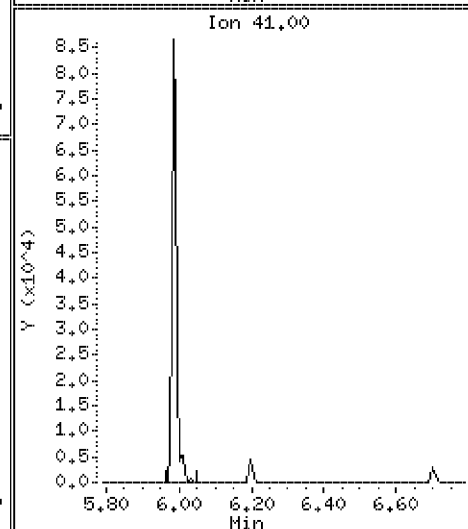
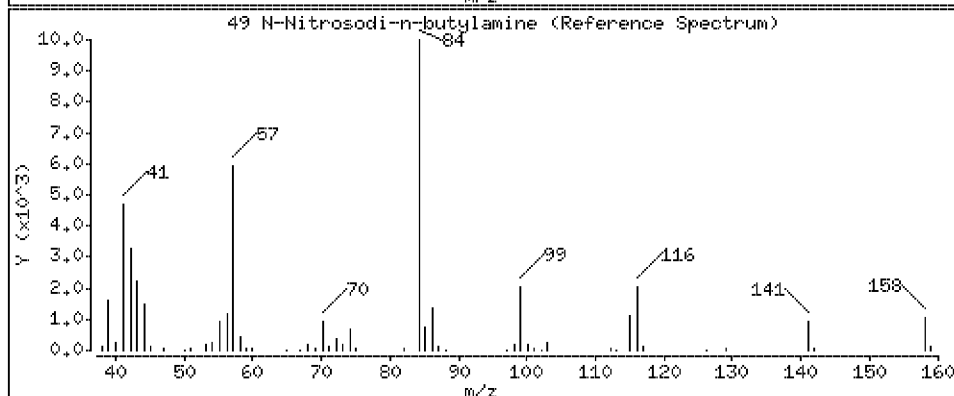
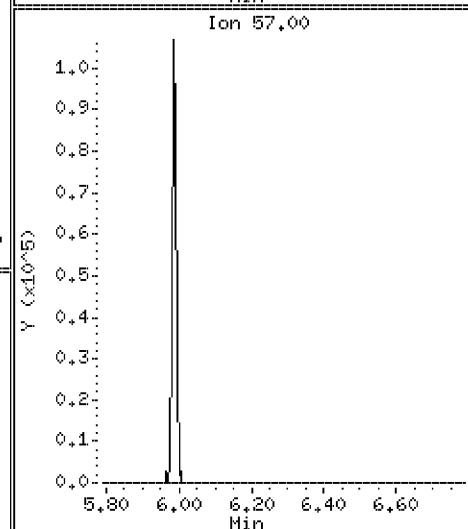
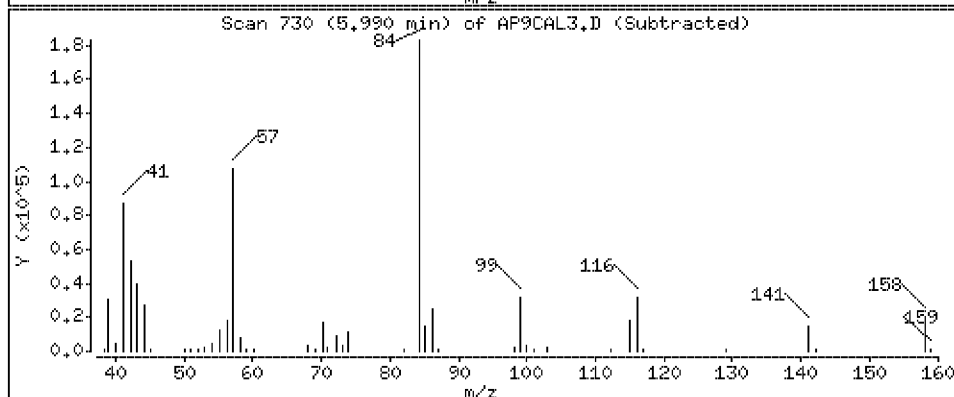
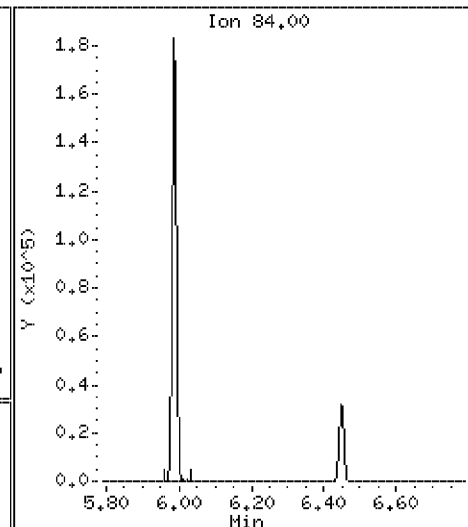
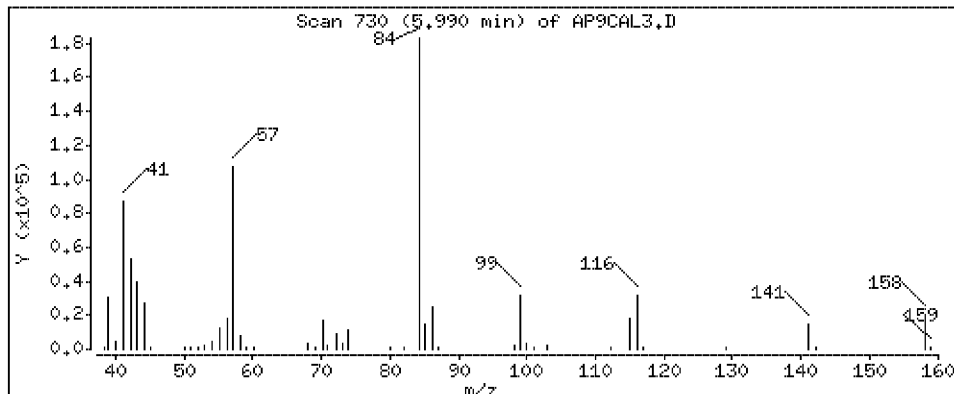
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

49 N-Nitrosodi-n-butylamine

Concentration: 19.2 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

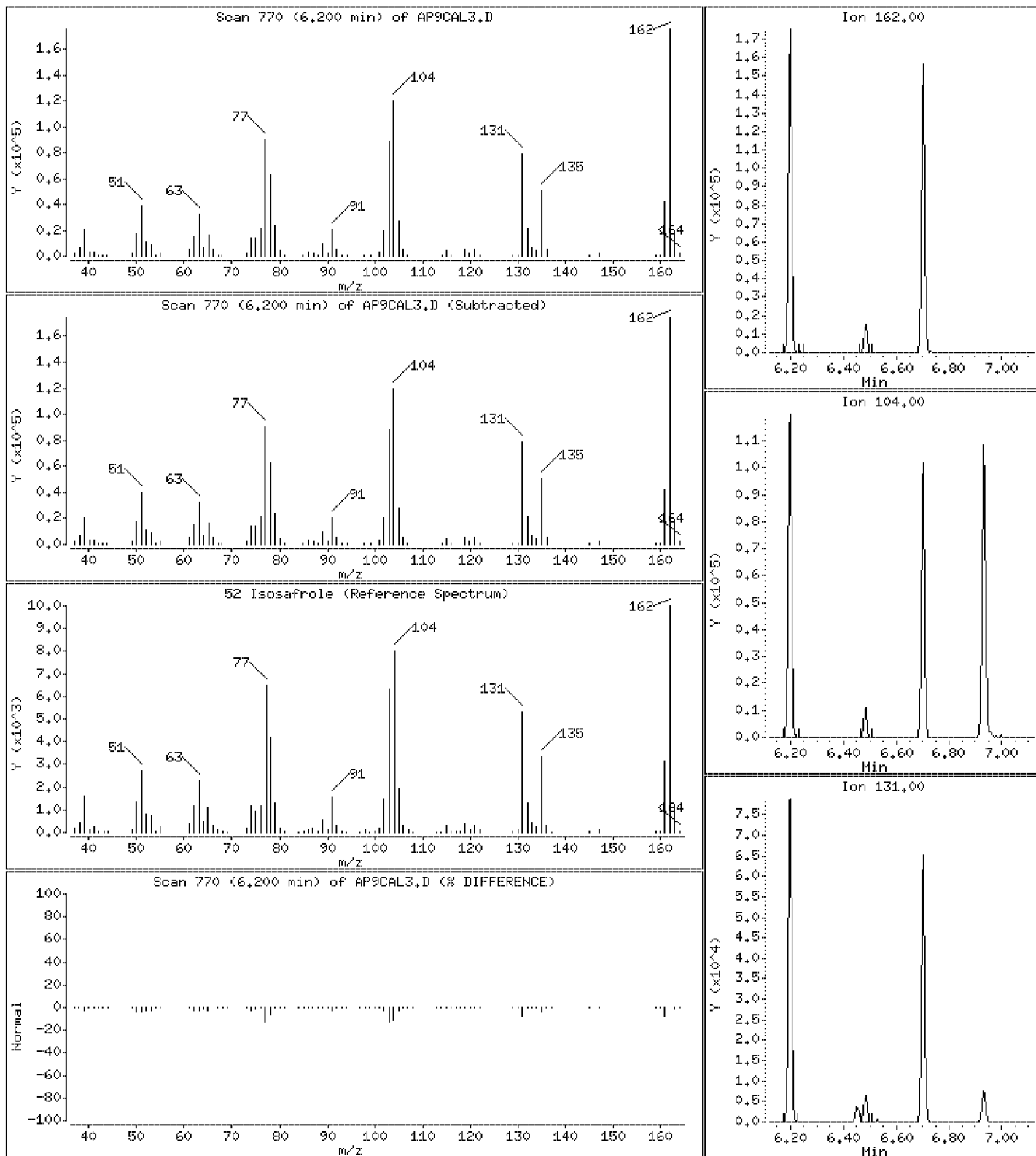
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

52 Isosafrole

Concentration: 18.7 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

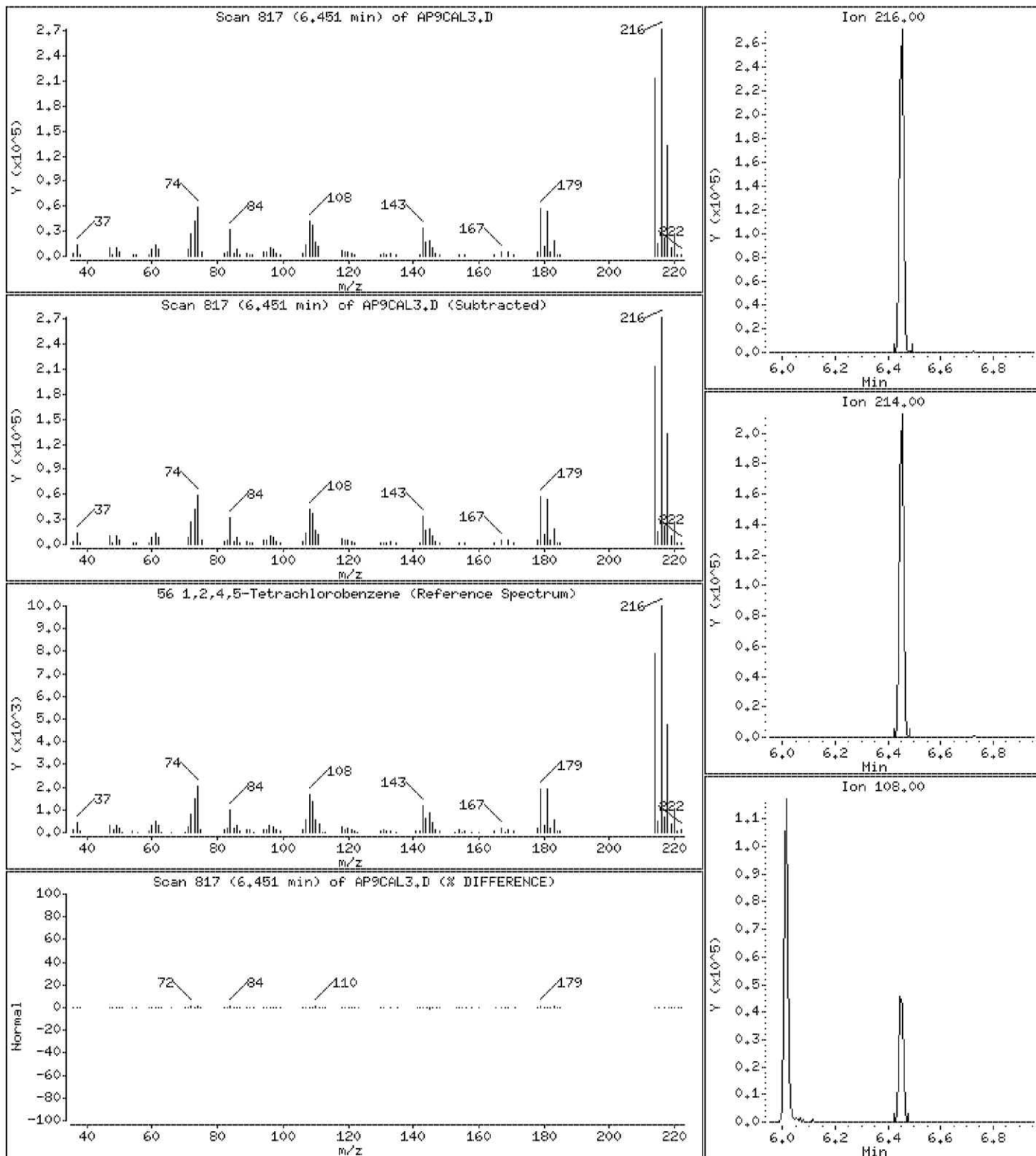
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

56 1,2,4,5-Tetrachlorobenzene

Concentration: 18.9 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

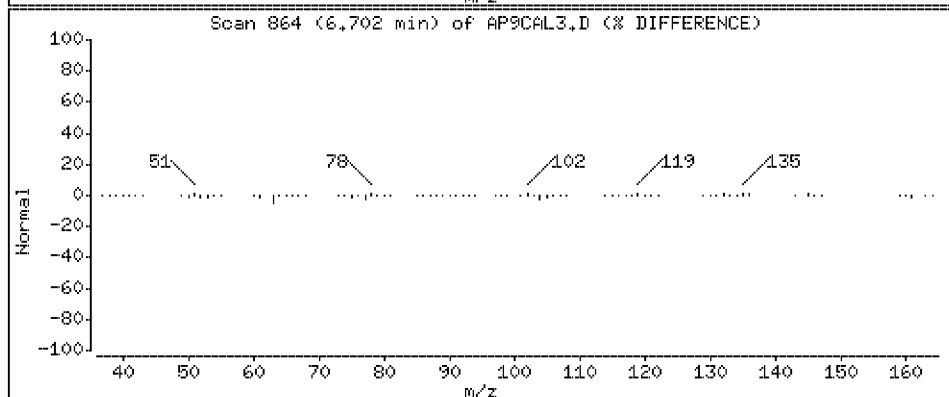
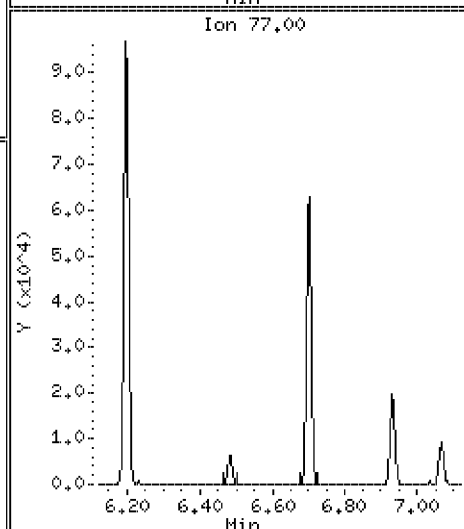
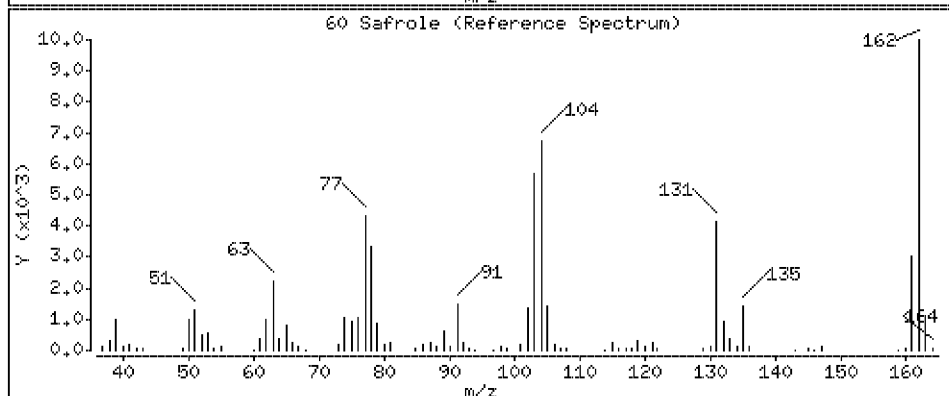
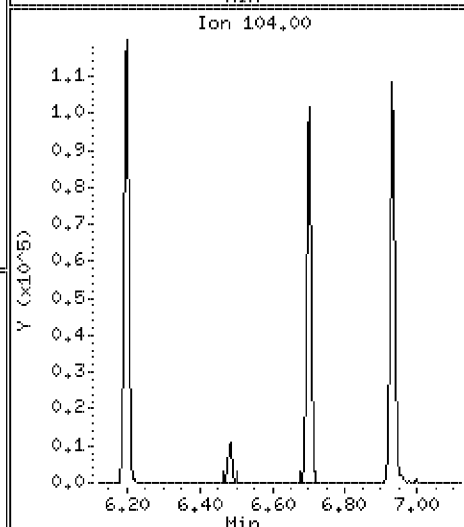
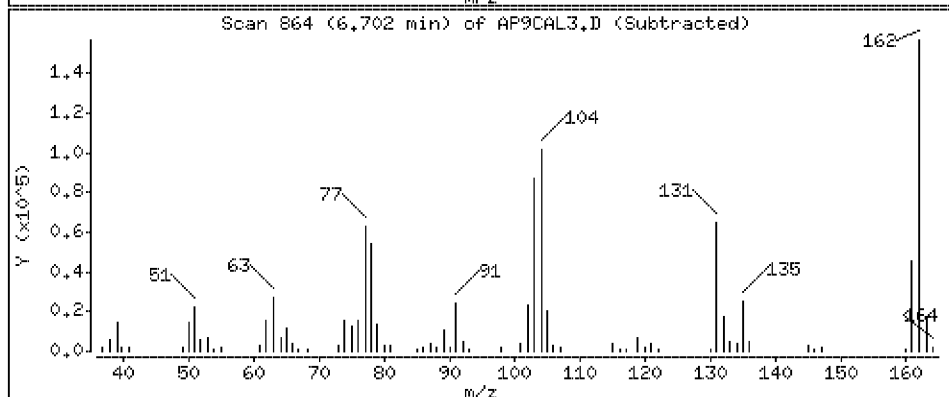
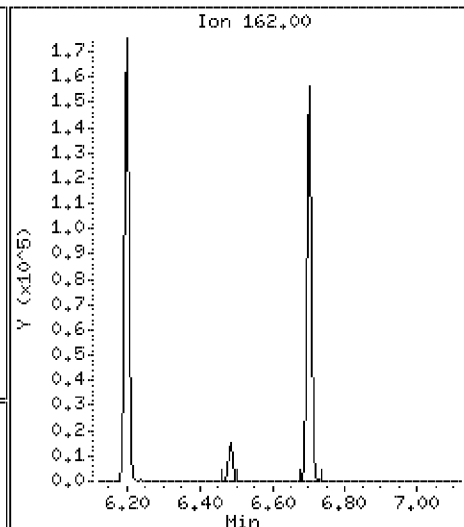
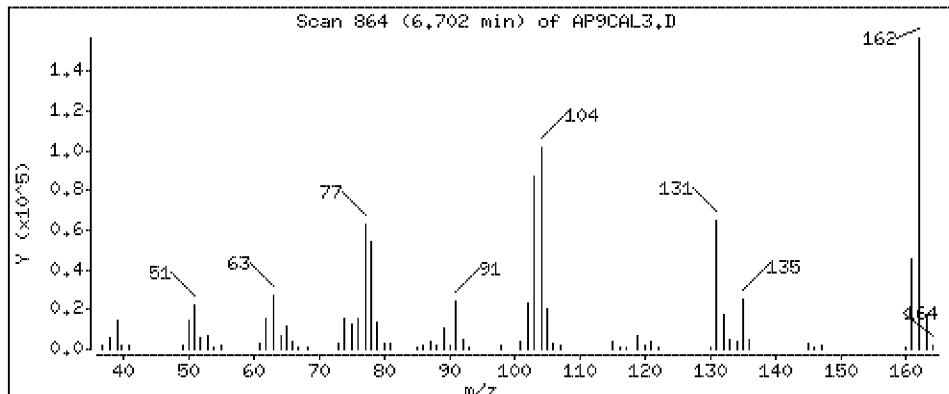
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

60 Safrole

Concentration: 18.2 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

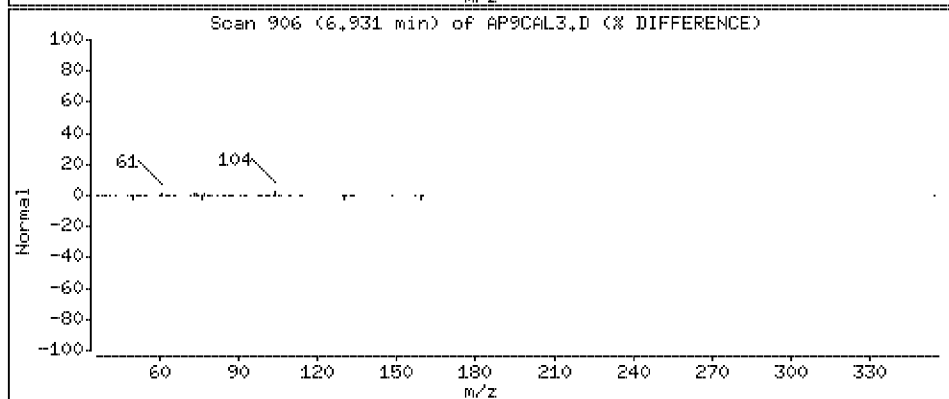
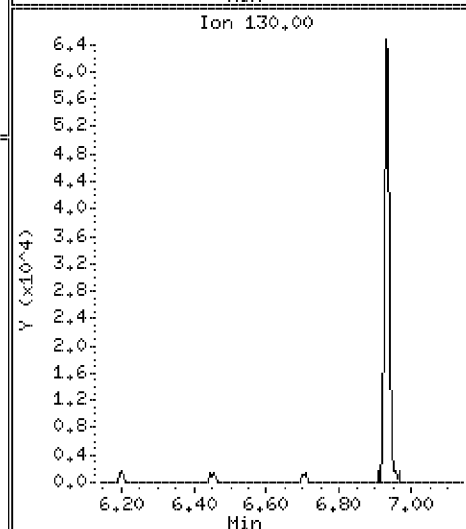
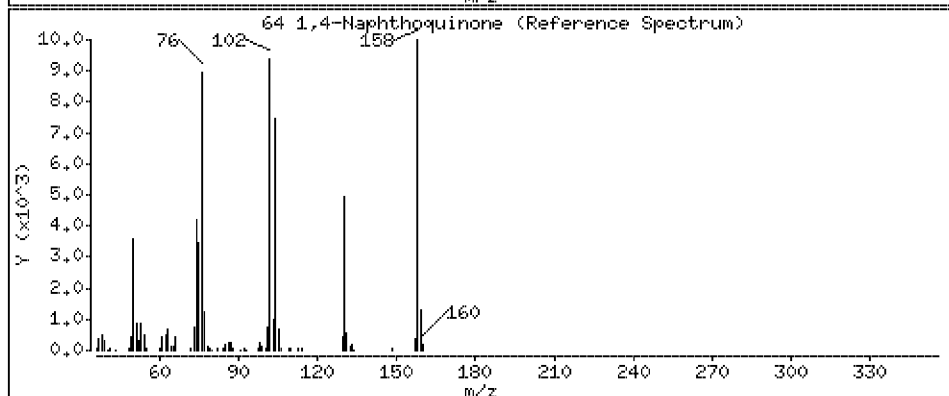
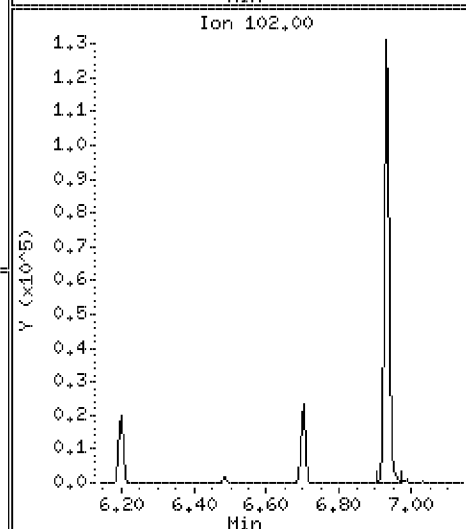
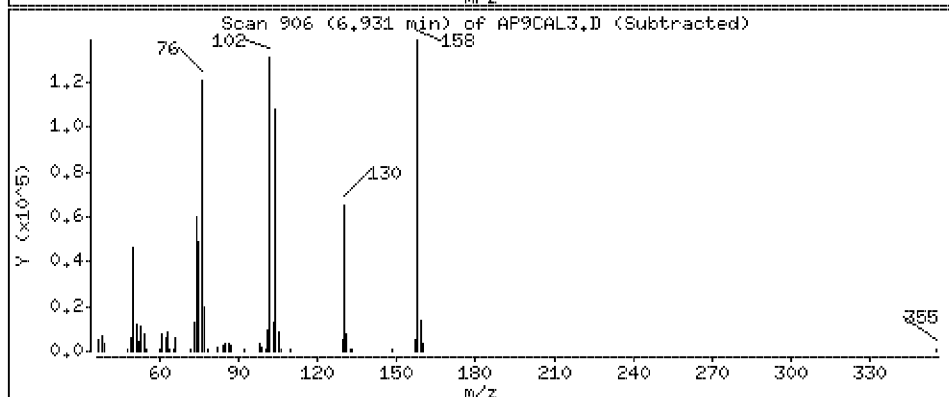
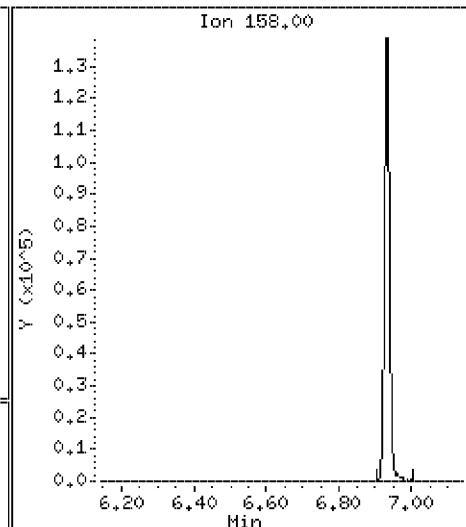
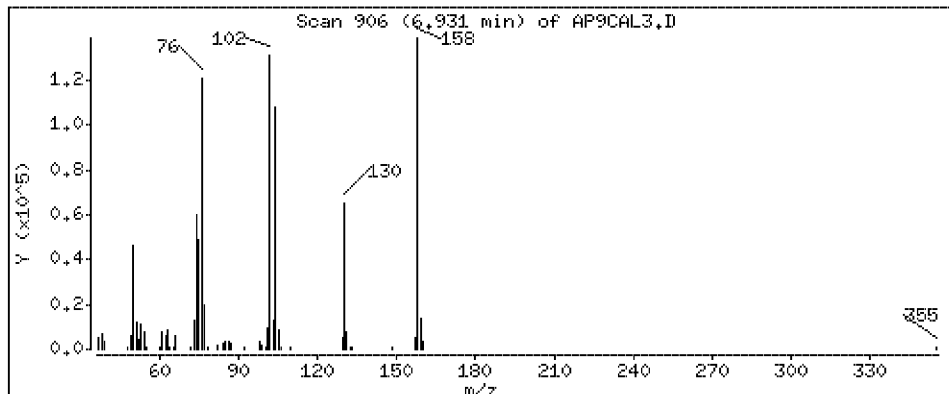
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

64 1,4-Naphthoquinone

Concentration: 19.7 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

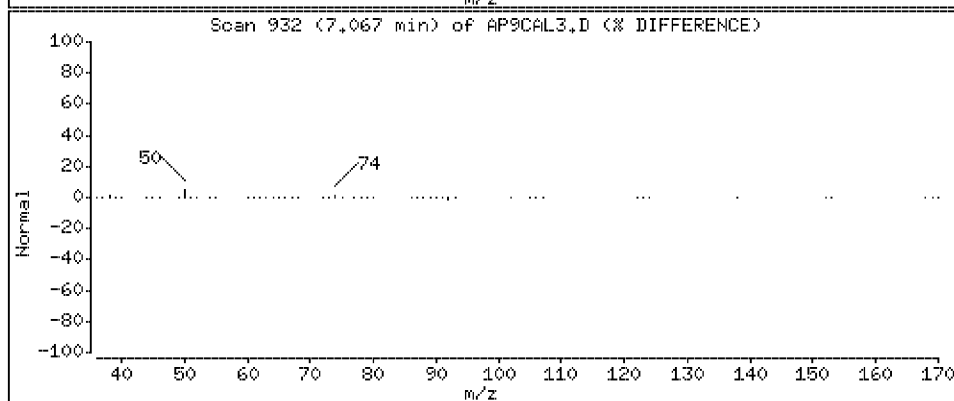
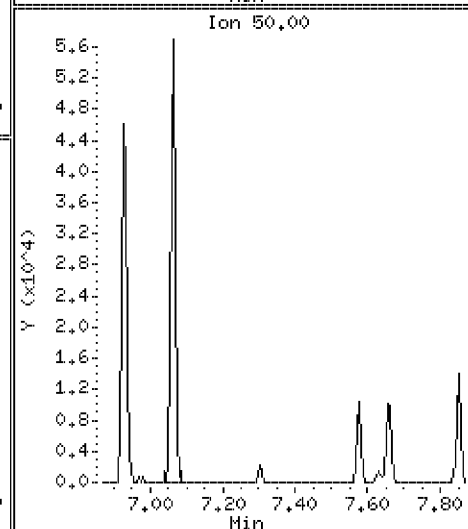
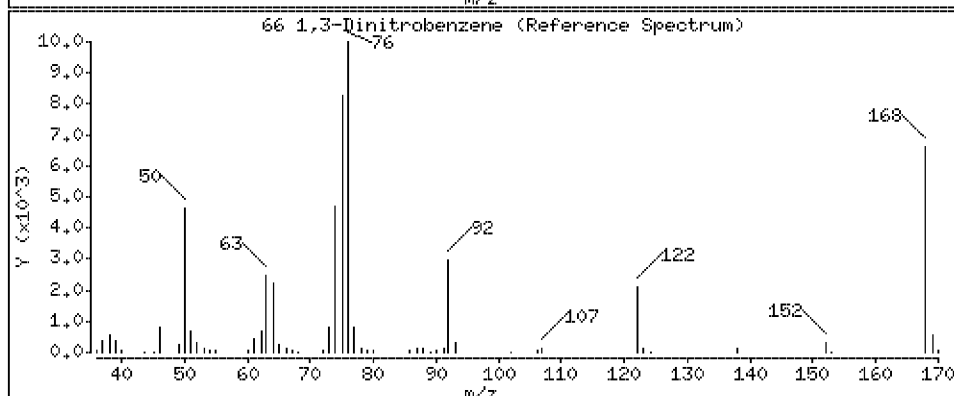
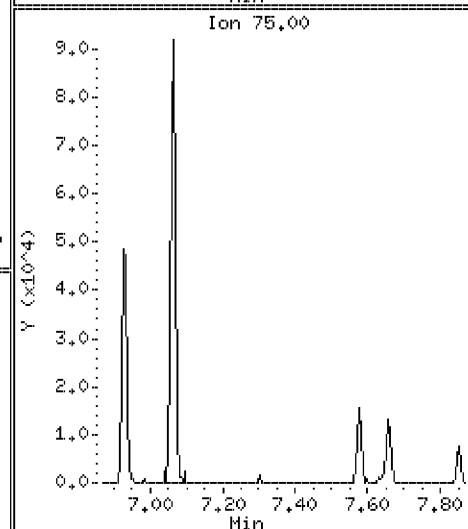
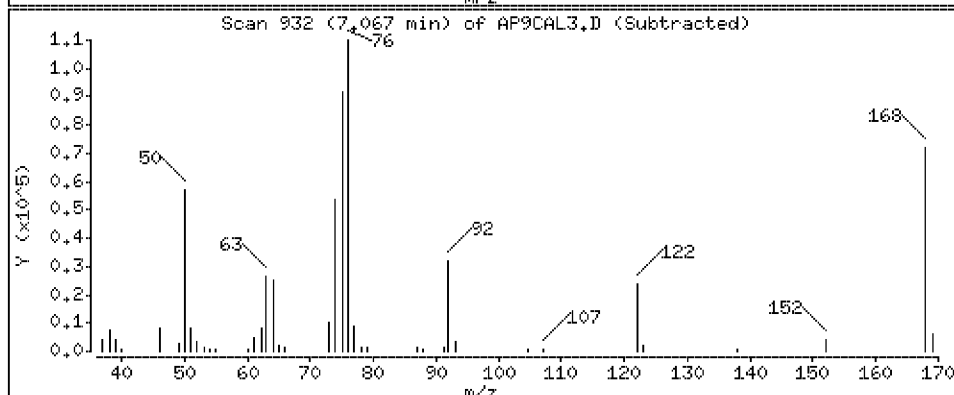
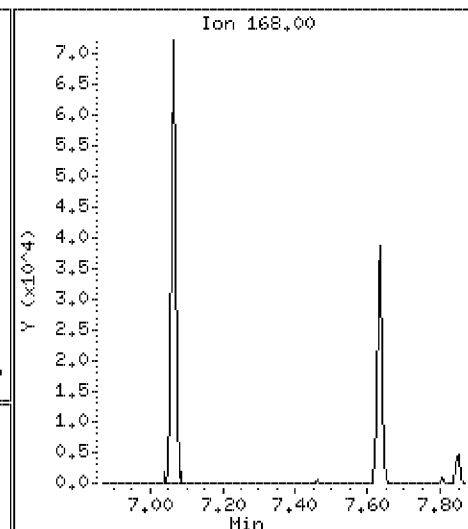
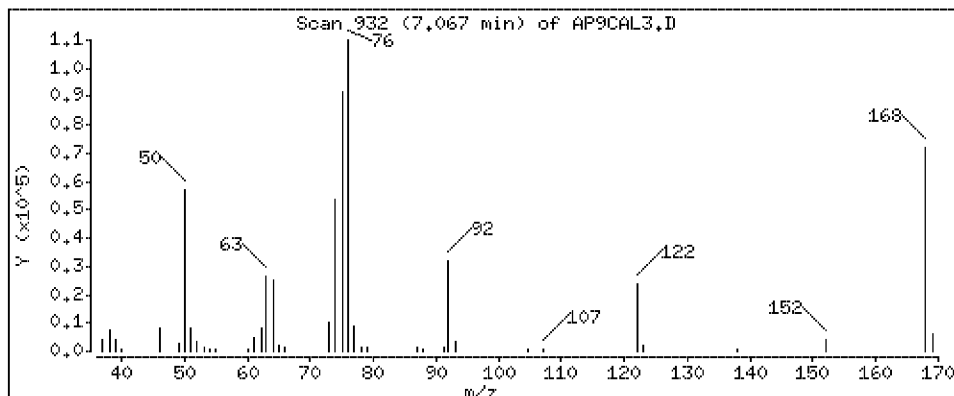
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

66 1,3-Dinitrobenzene

Concentration: 18.9 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

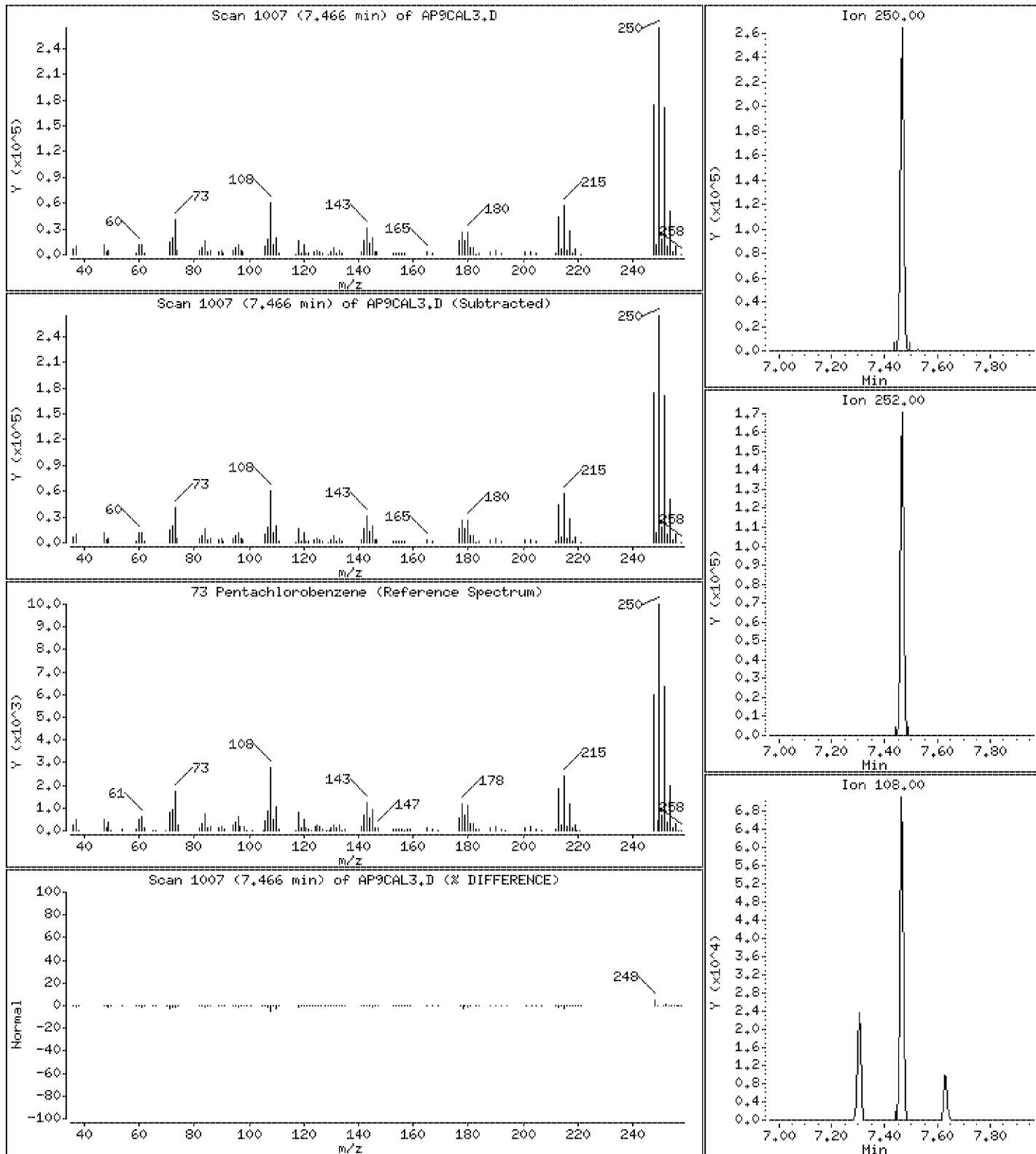
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

73 Pentachlorobenzene

Concentration: 19.0 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

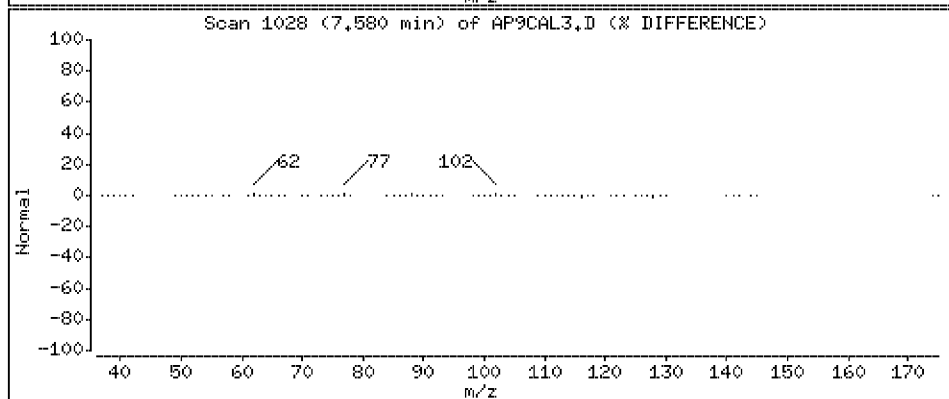
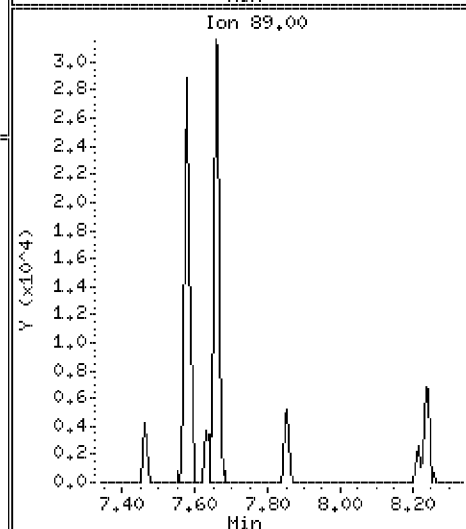
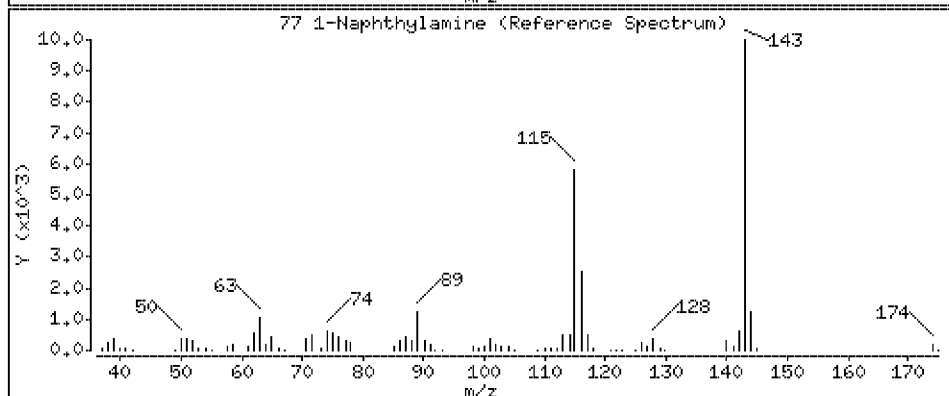
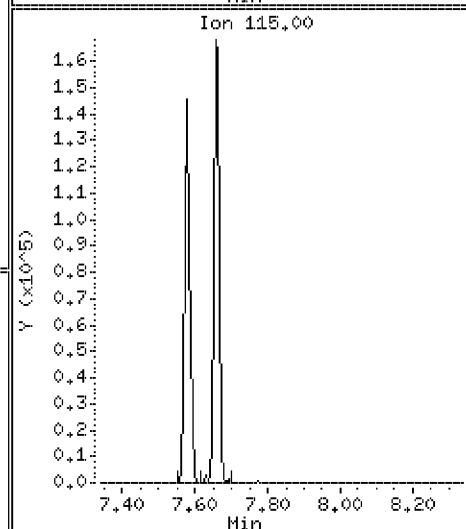
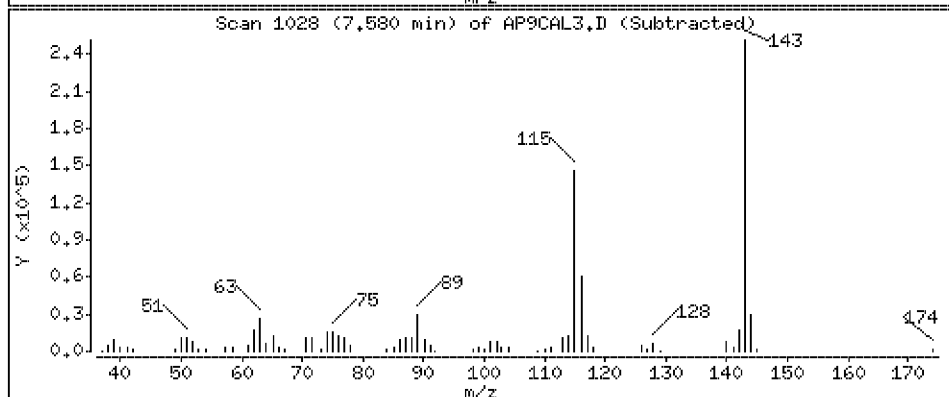
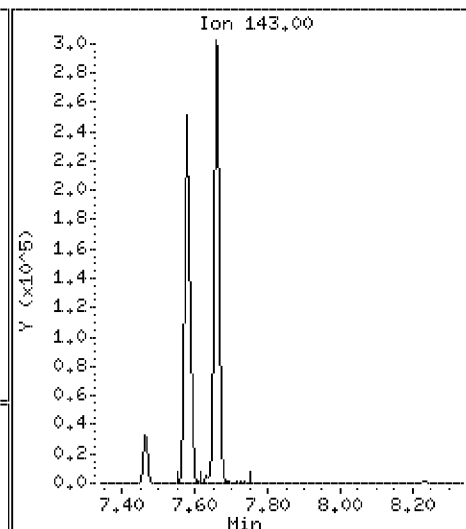
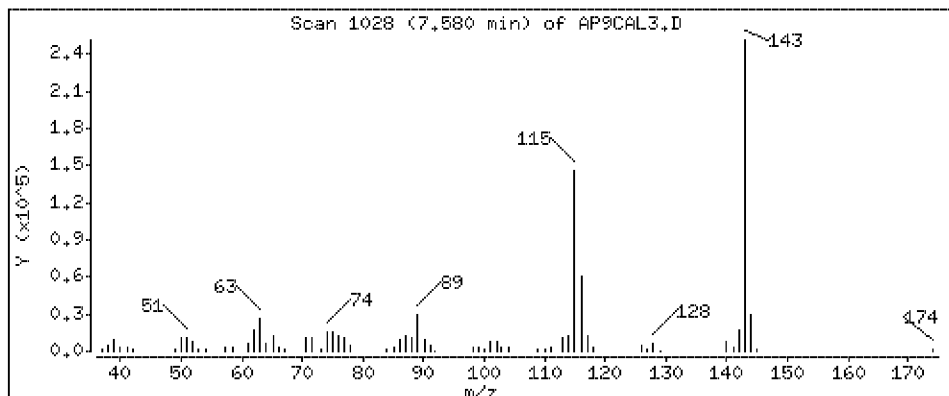
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

77 1-Naphthylamine

Concentration: 19.5 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

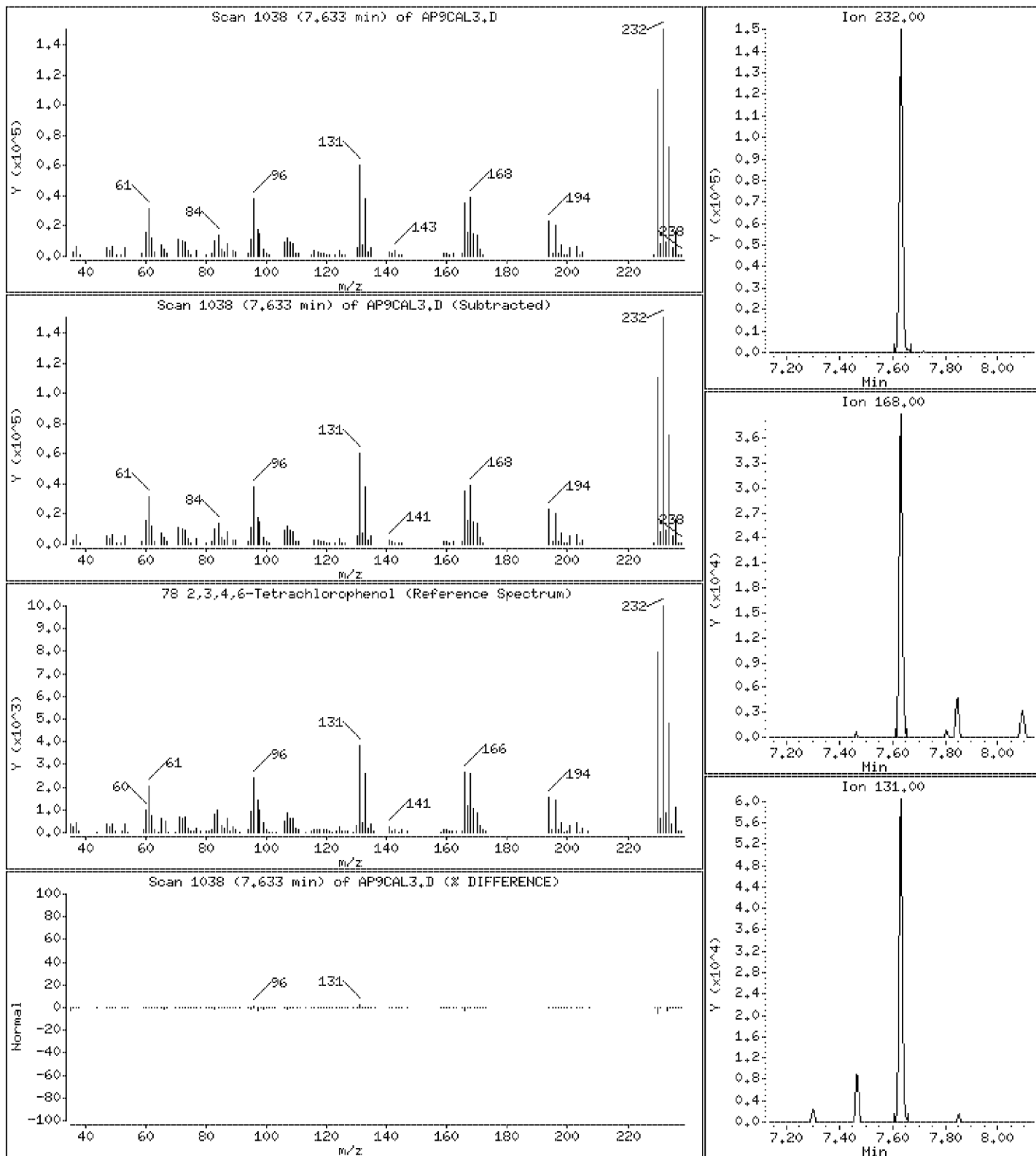
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

78 2,3,4,6-Tetrachlorophenol

Concentration: 19.3 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

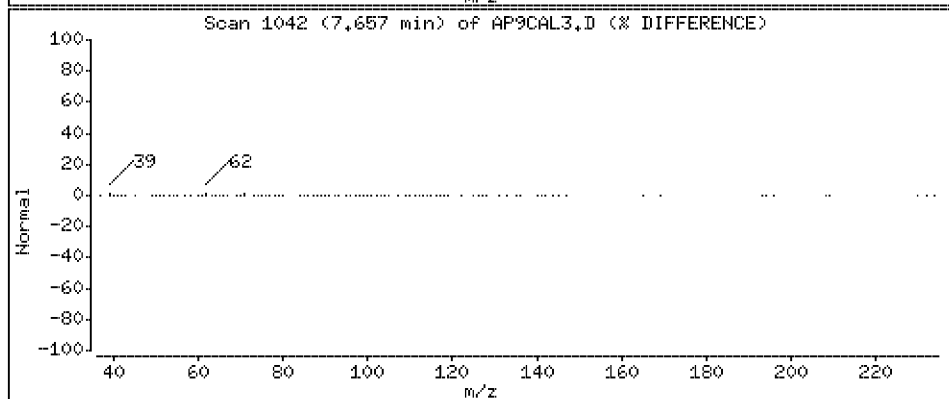
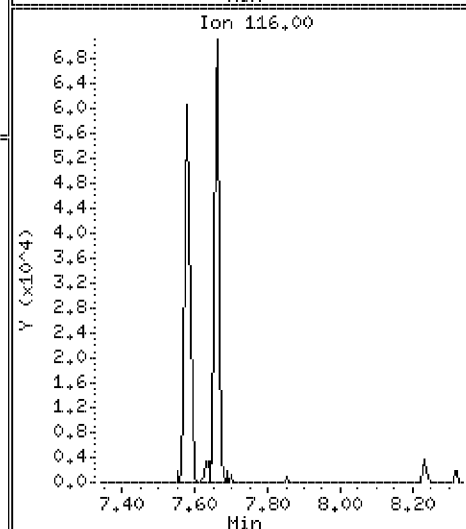
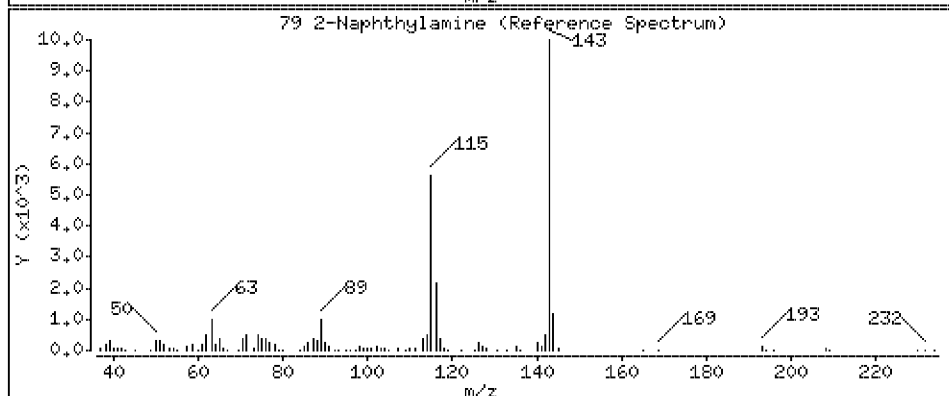
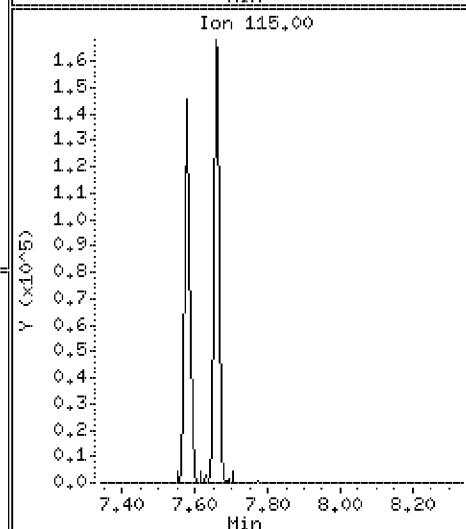
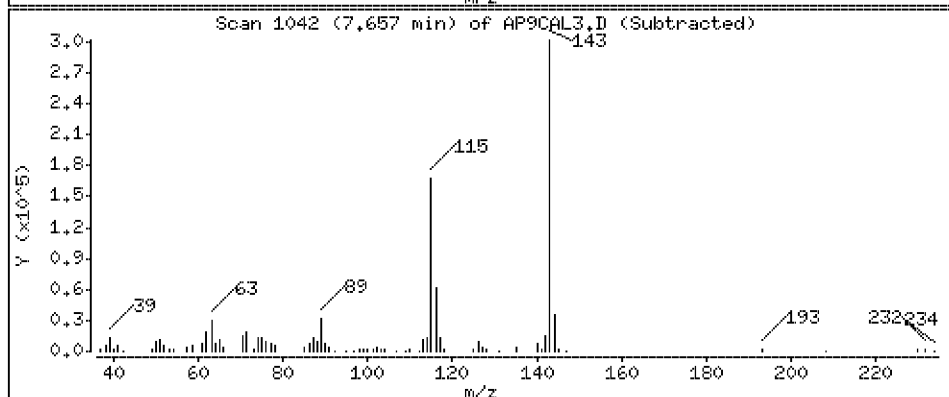
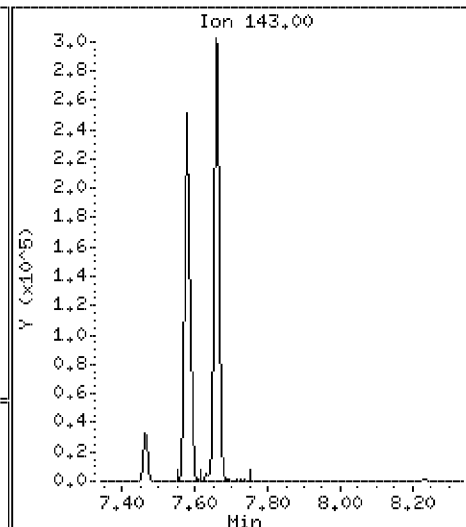
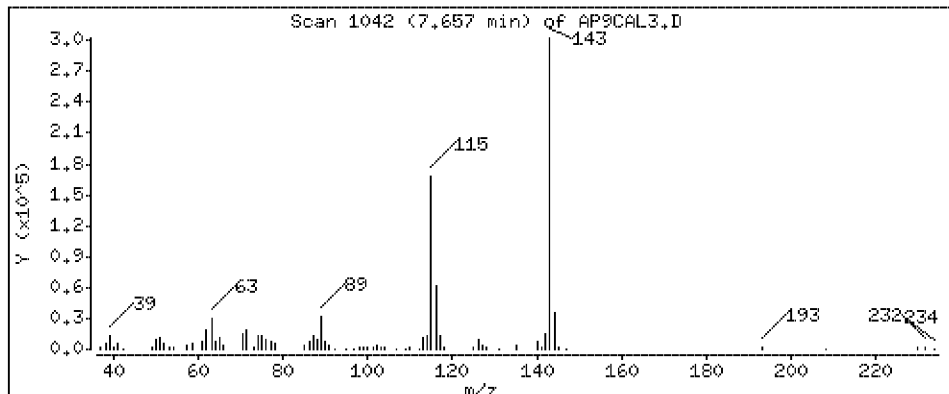
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

79 2-Naphthylamine

Concentration: 20.0 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

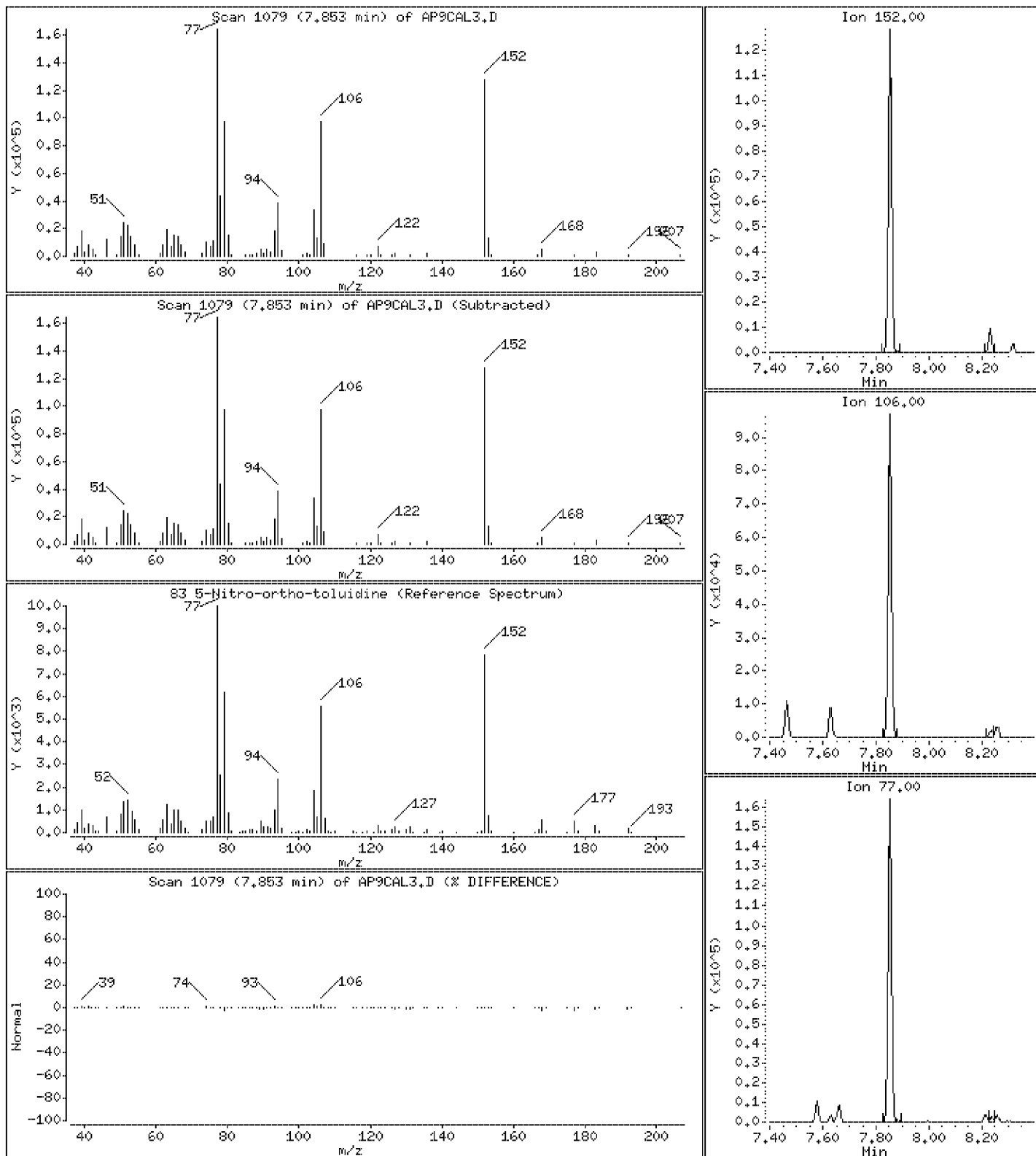
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

83 5-Nitro-ortho-toluidine

Concentration: 19.3 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

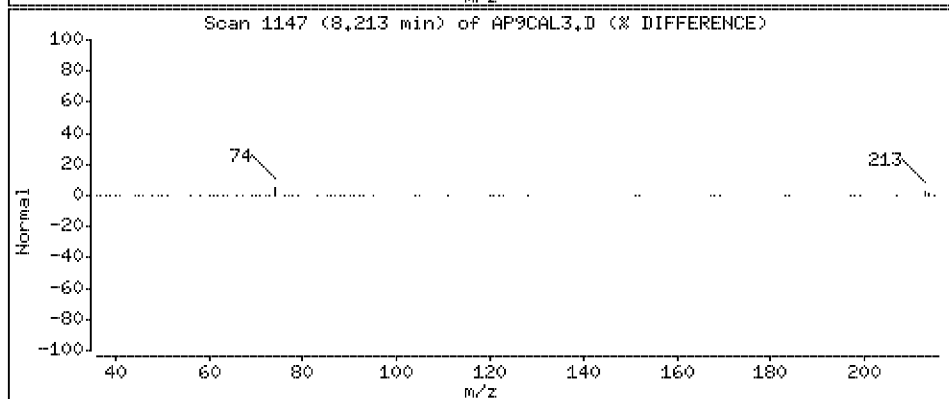
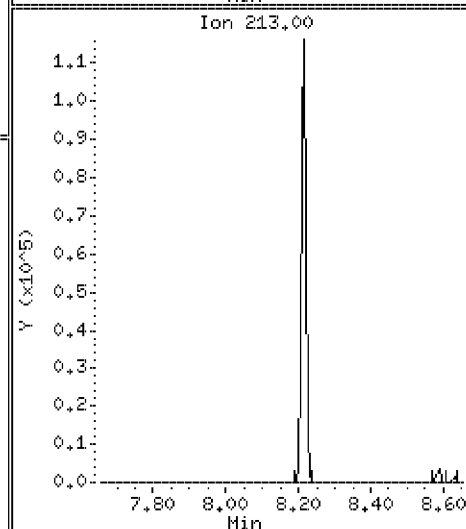
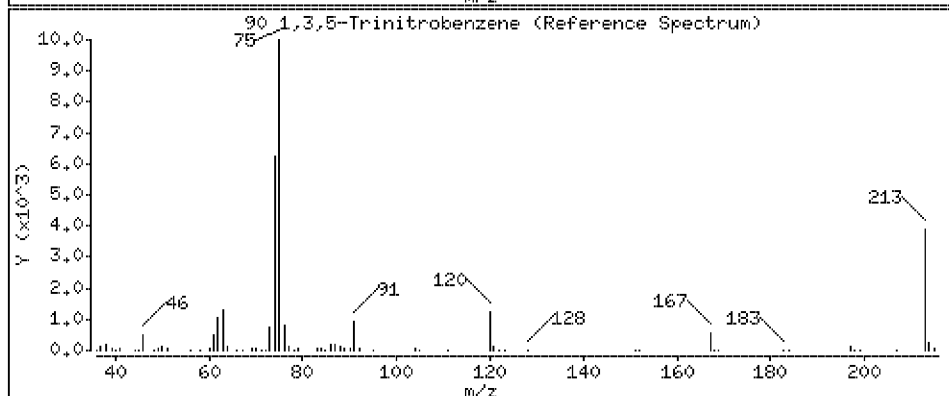
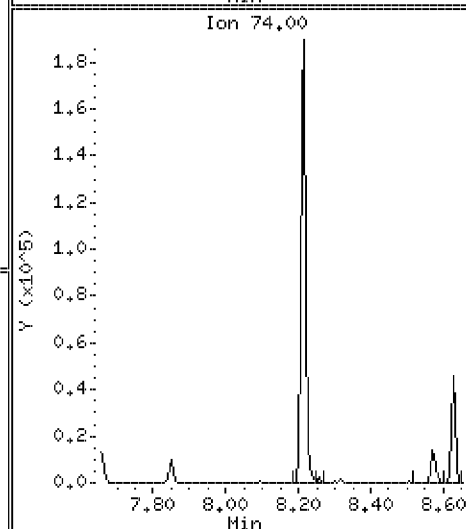
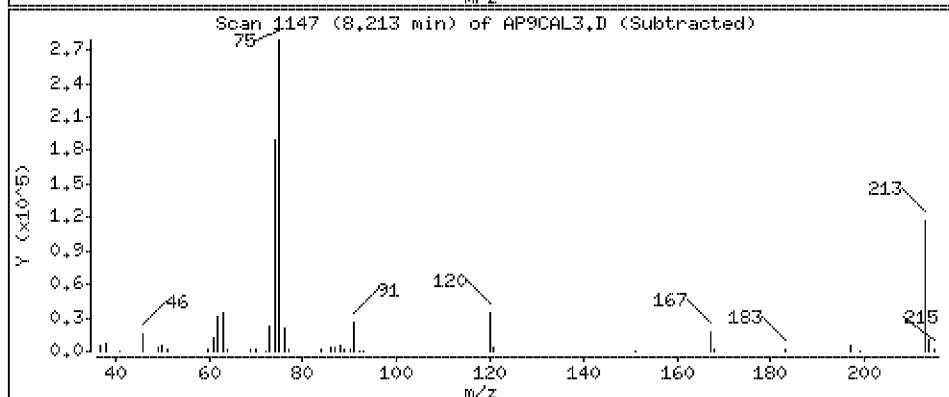
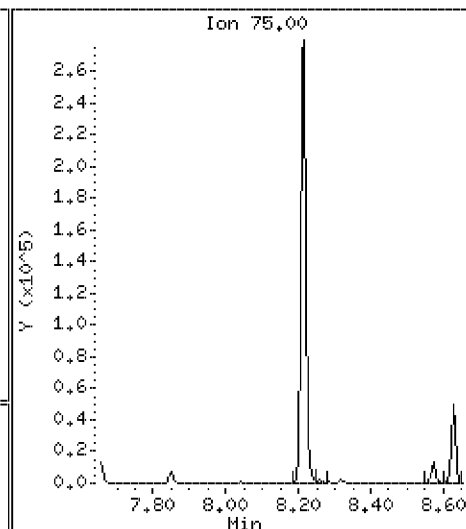
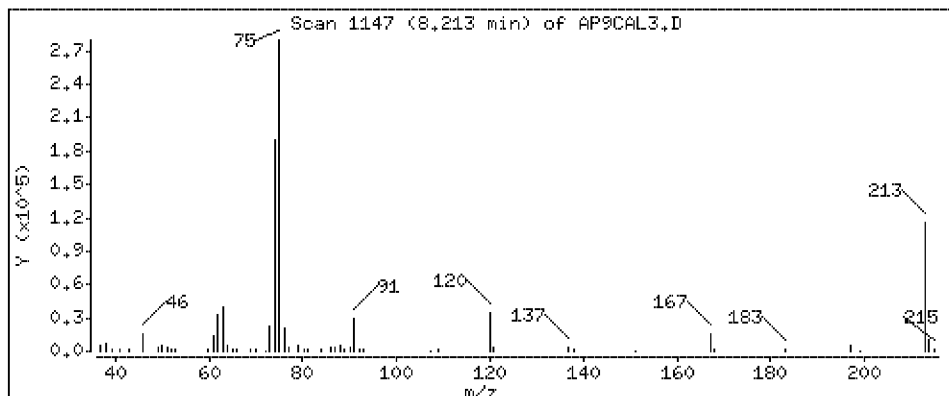
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

90 1,3,5-Trinitrobenzene

Concentration: 19.4 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

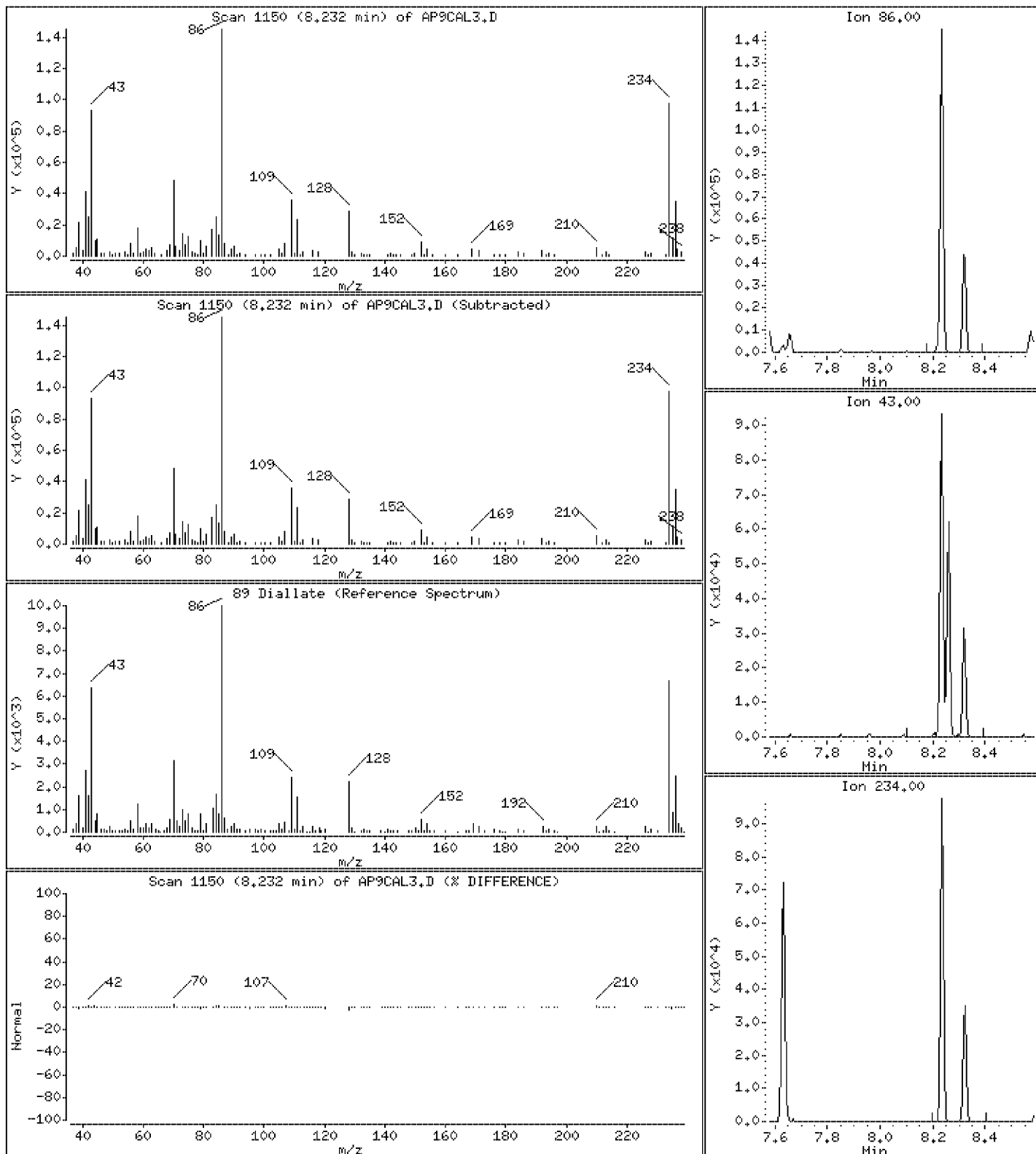
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

89 Diallate

Concentration: 19.0 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

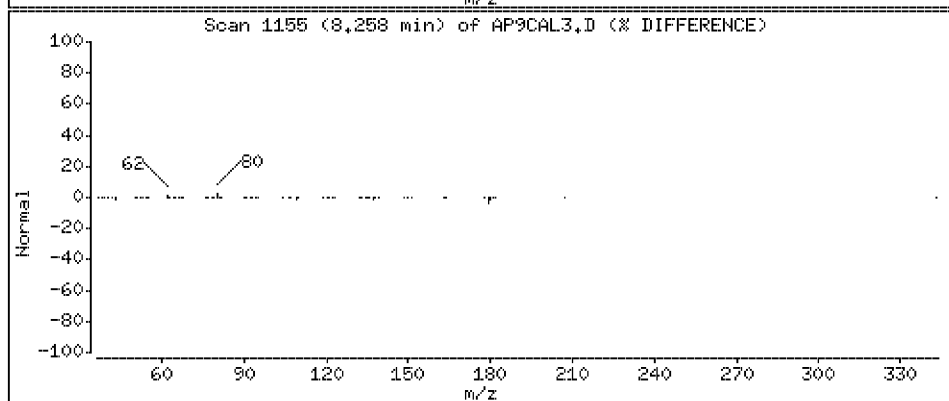
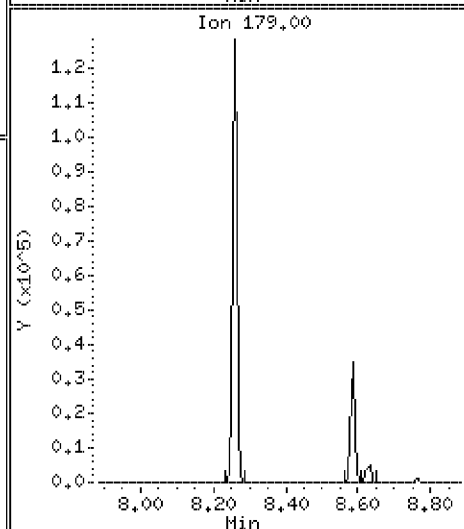
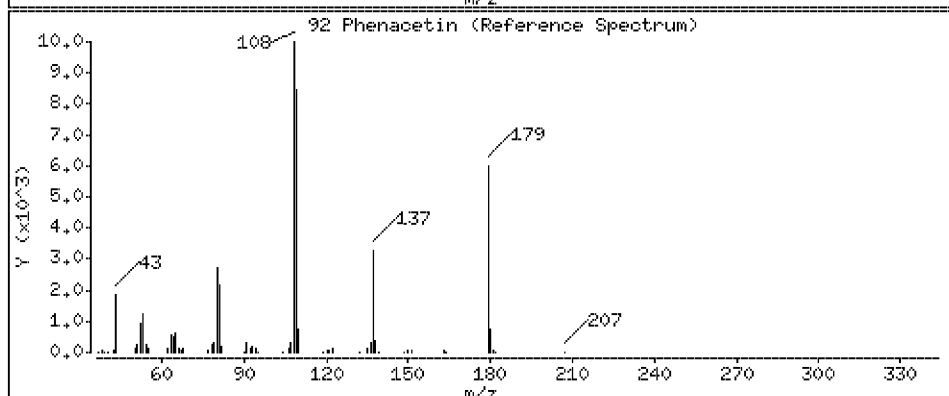
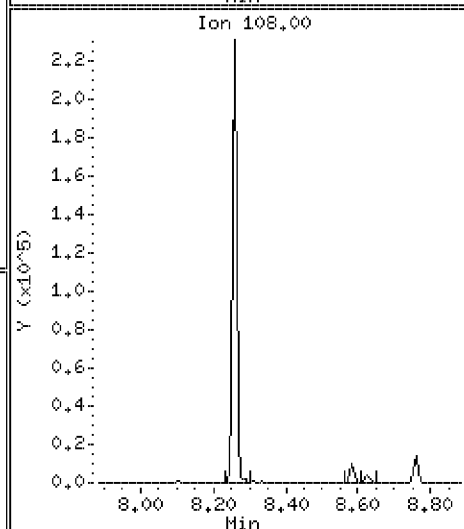
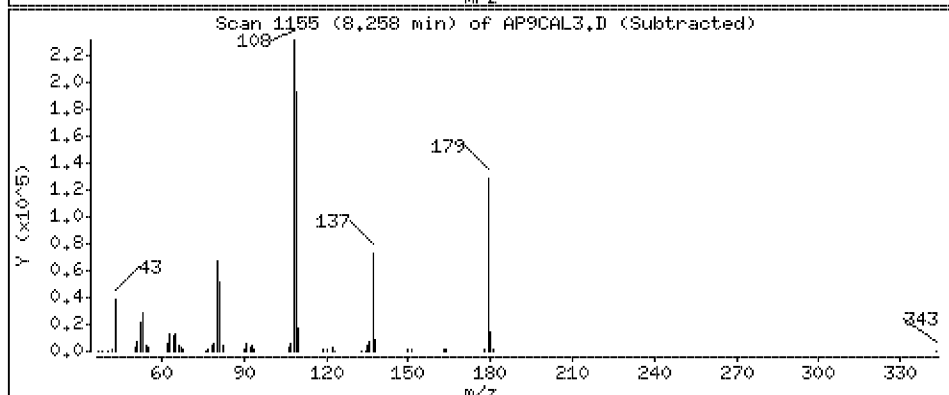
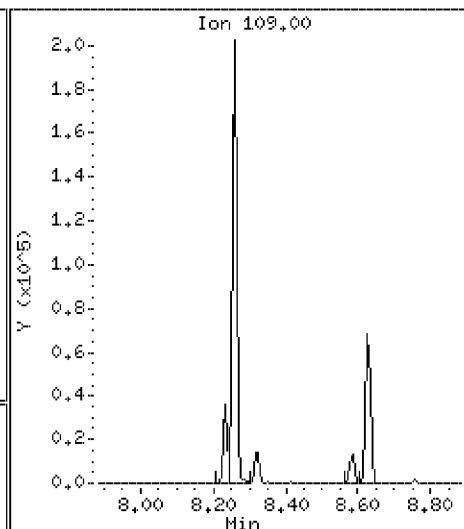
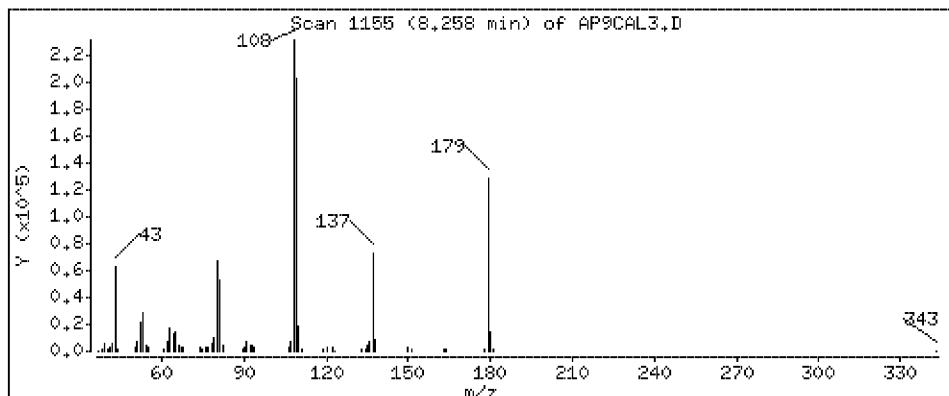
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

92 Phenacetin

Concentration: 19.4 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

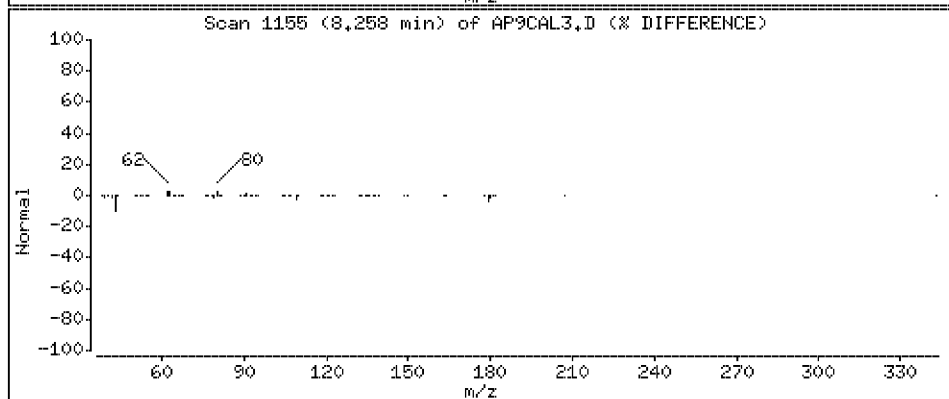
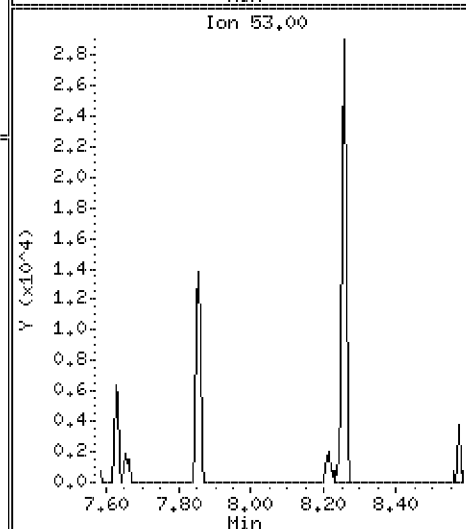
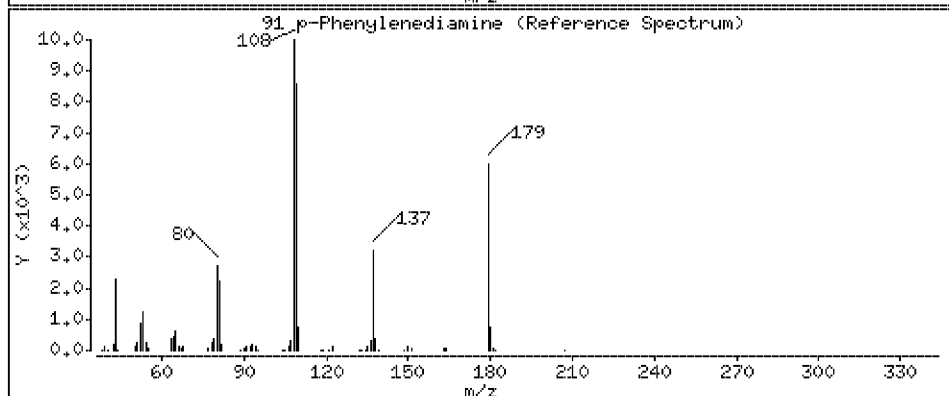
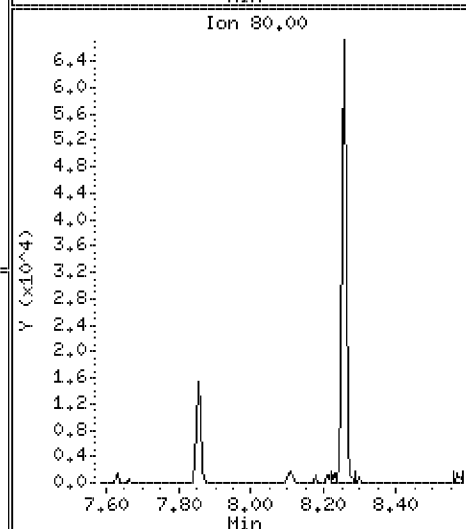
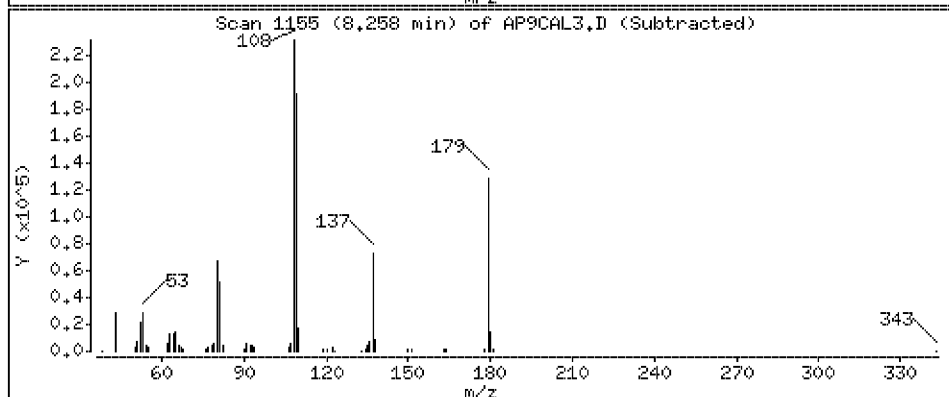
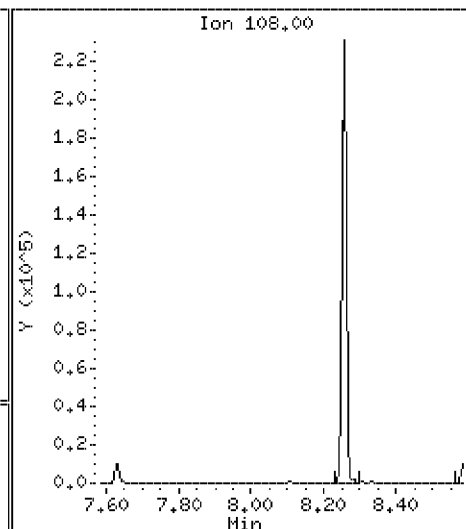
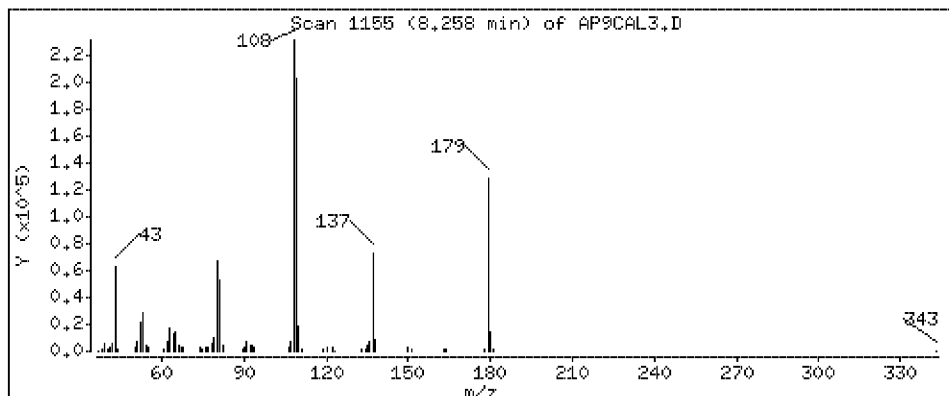
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

91 p-Phenylenediamine

Concentration: 19.9 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

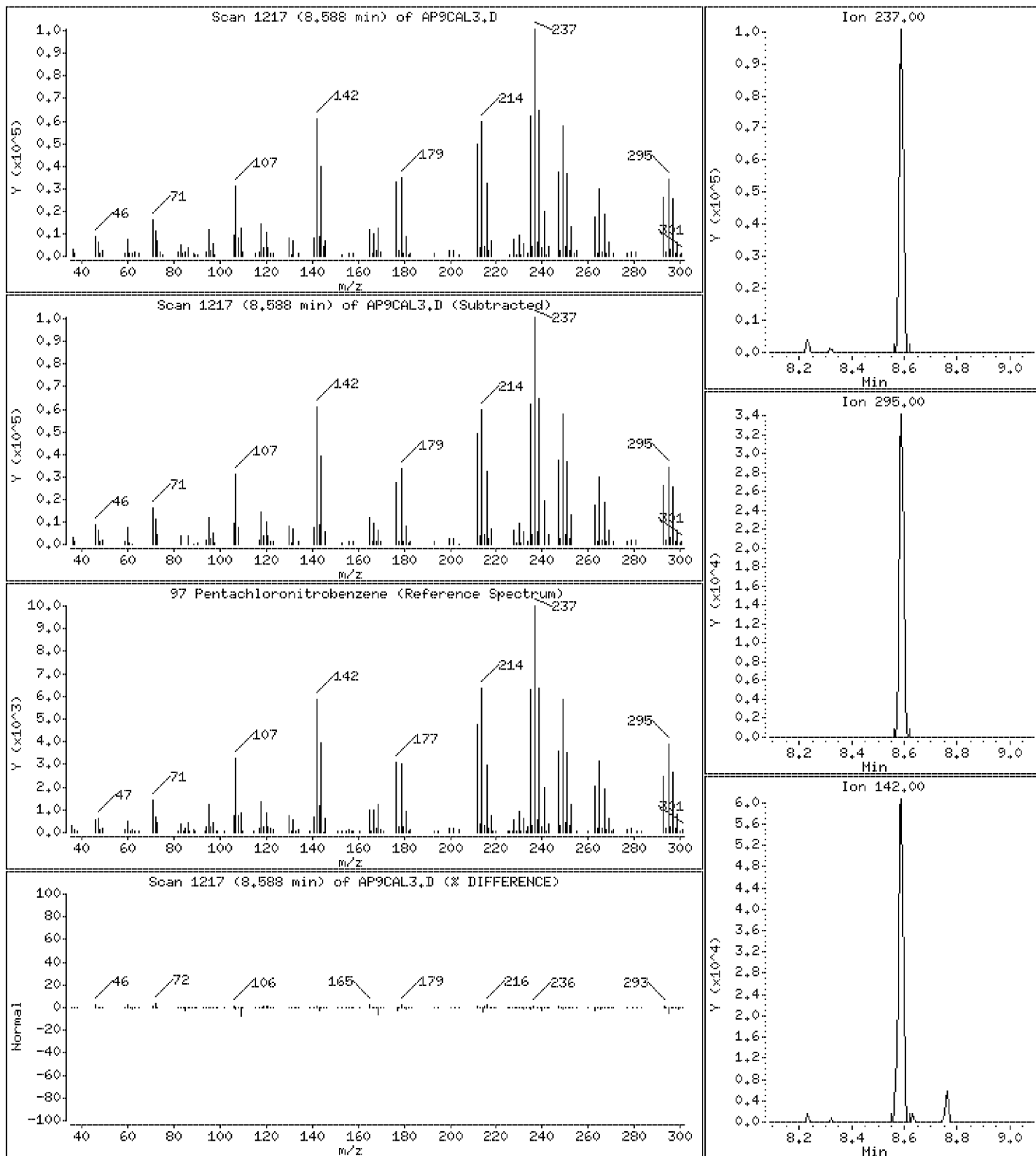
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

97 Pentachloronitrobenzene

Concentration: 19.6 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

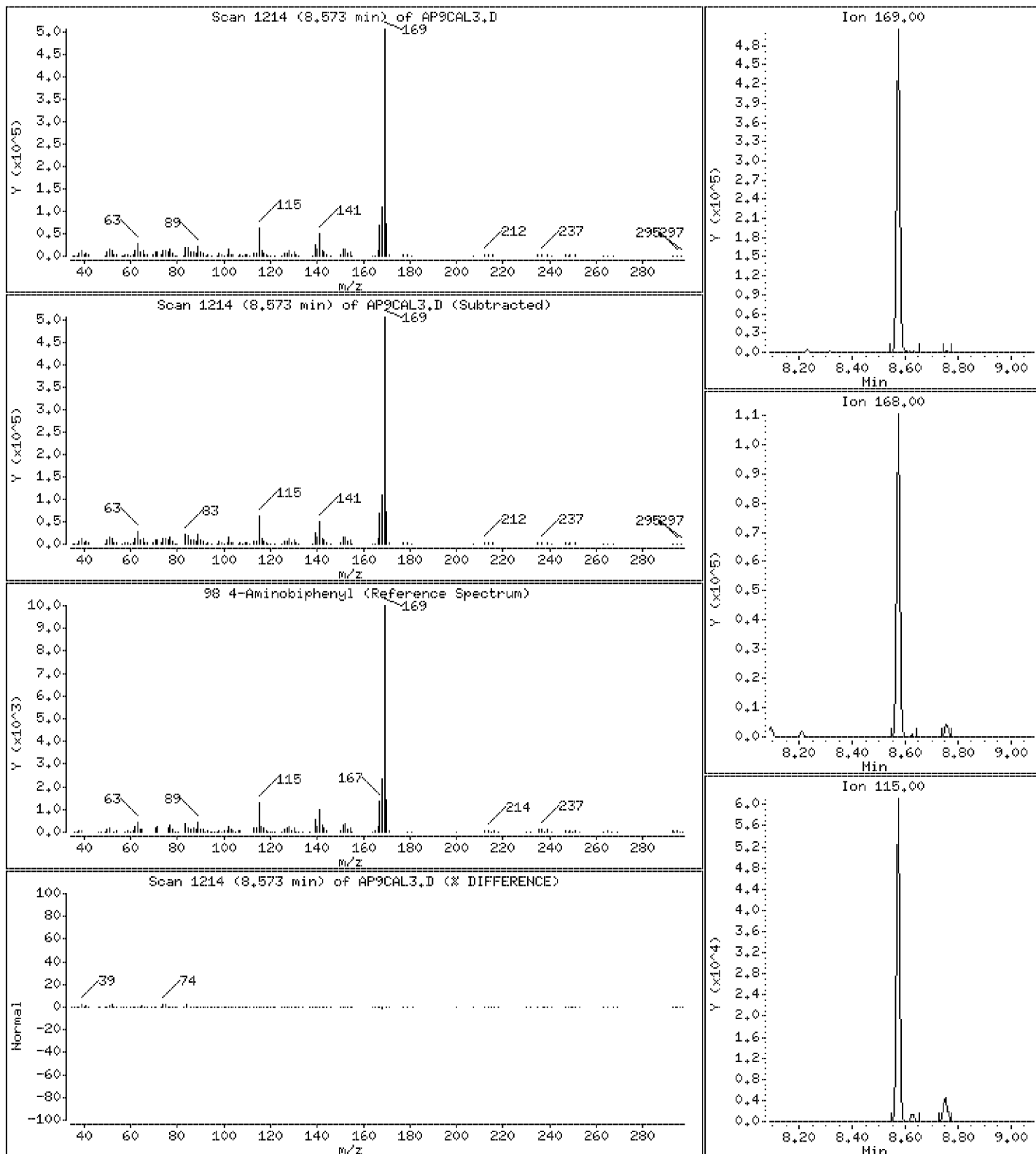
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

98 4-Aminobiphenyl

Concentration: 20.3 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

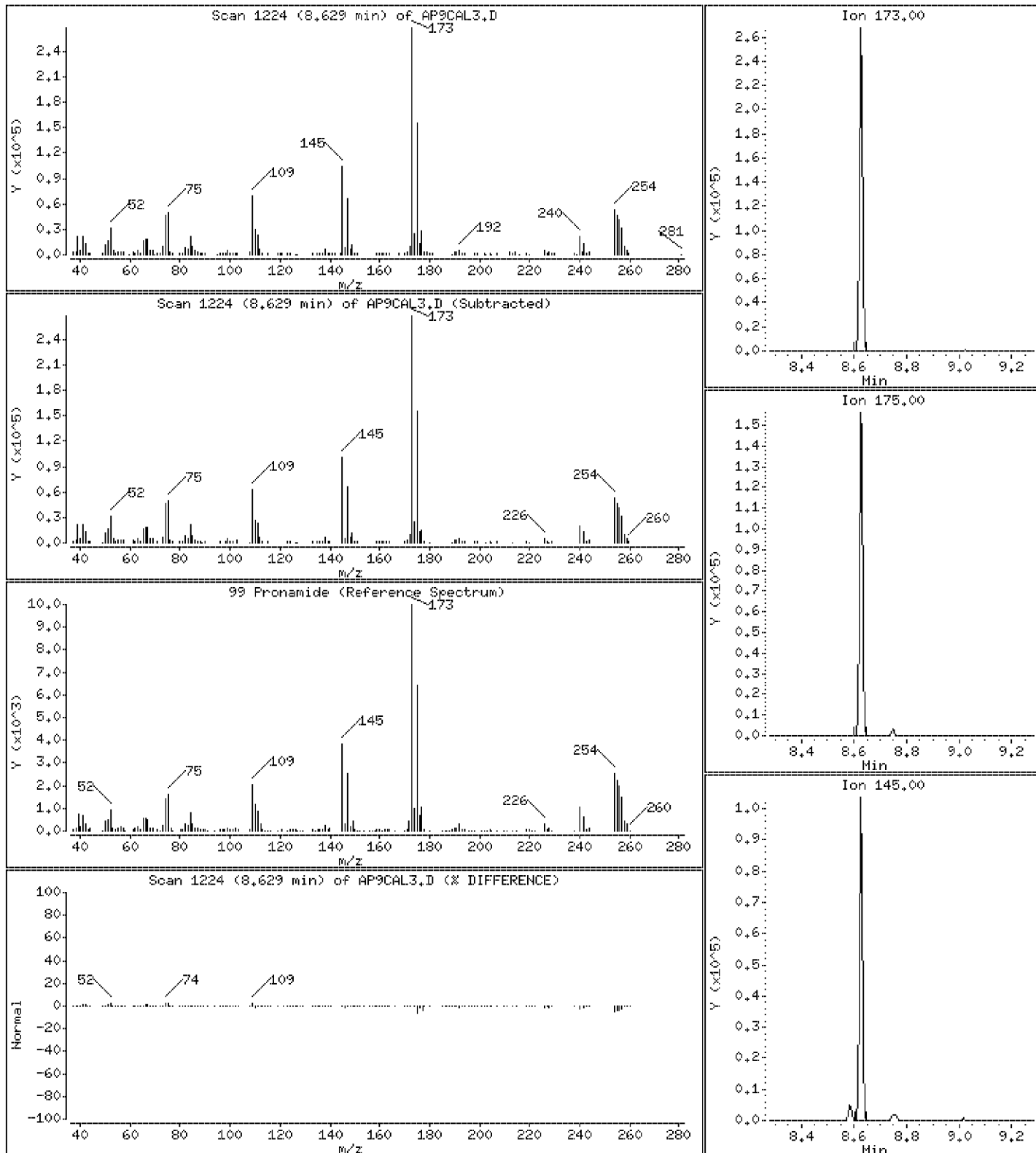
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

99 Pronamide

Concentration: 20.1 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

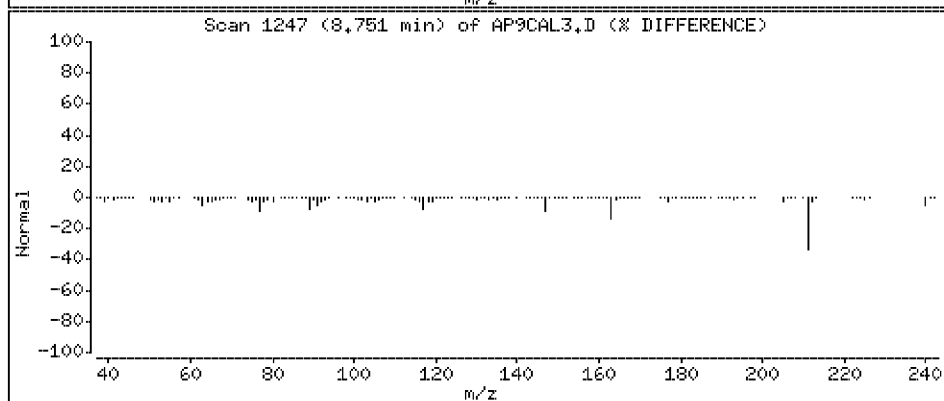
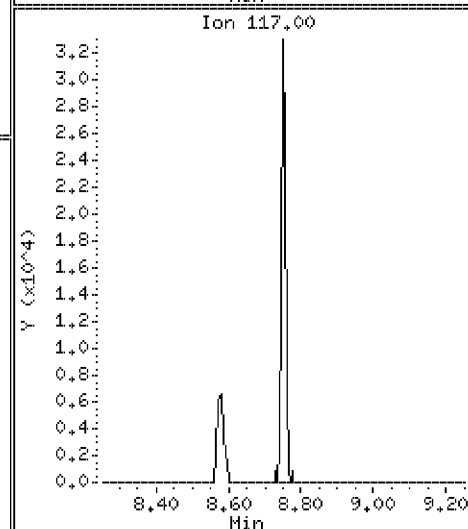
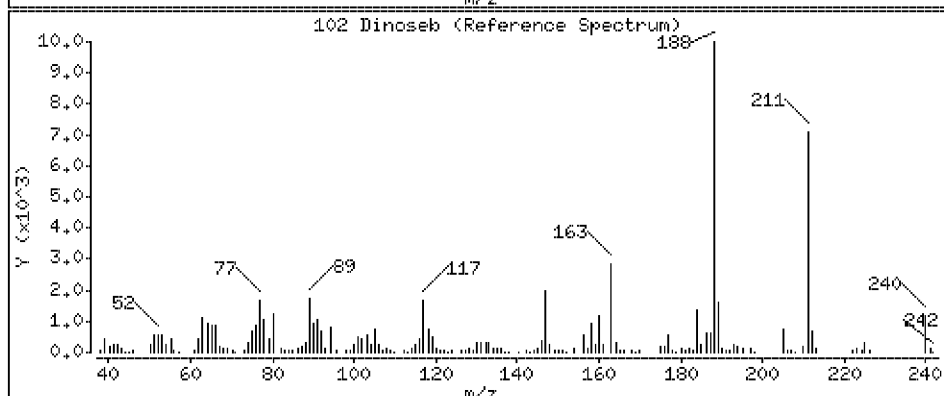
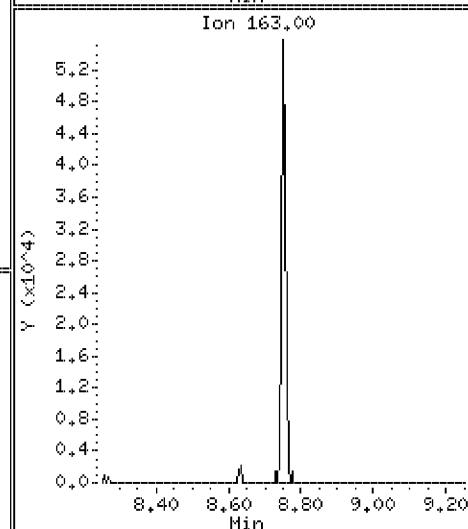
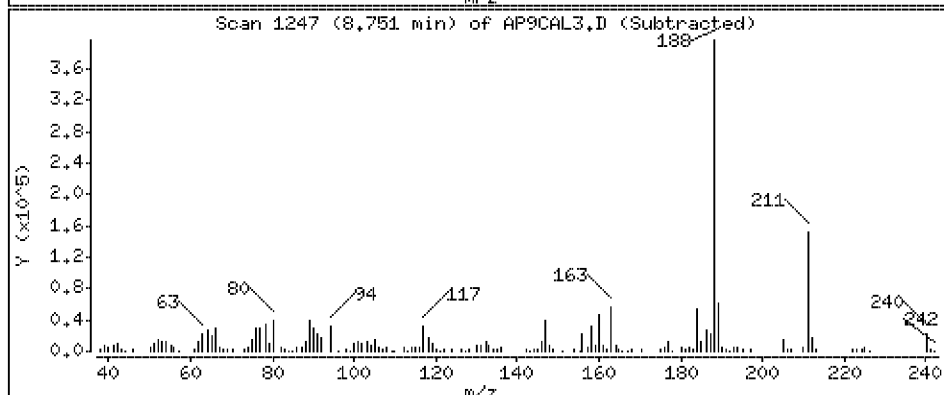
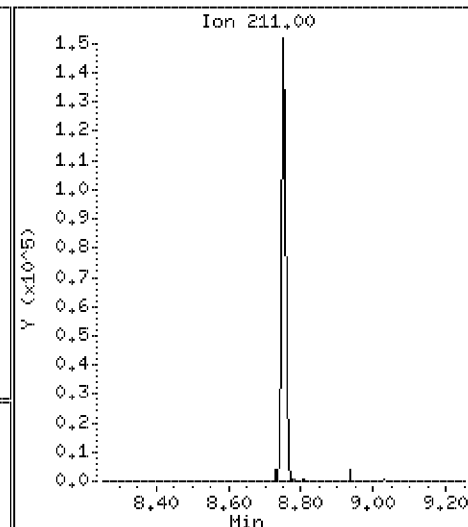
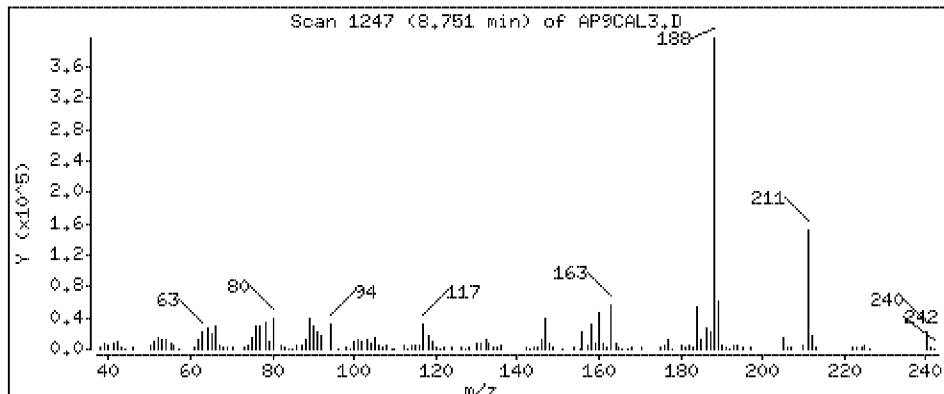
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

102 Dinoseb

Concentration: 19.0 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

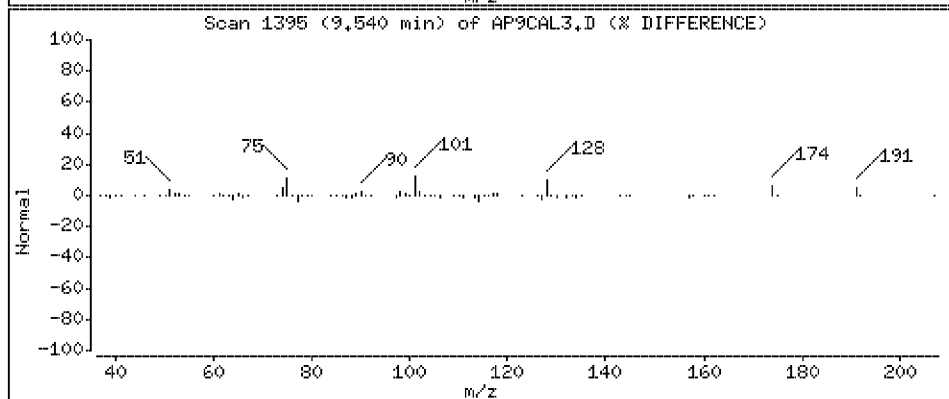
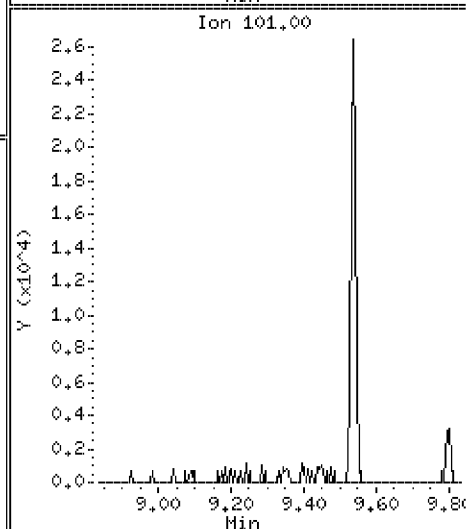
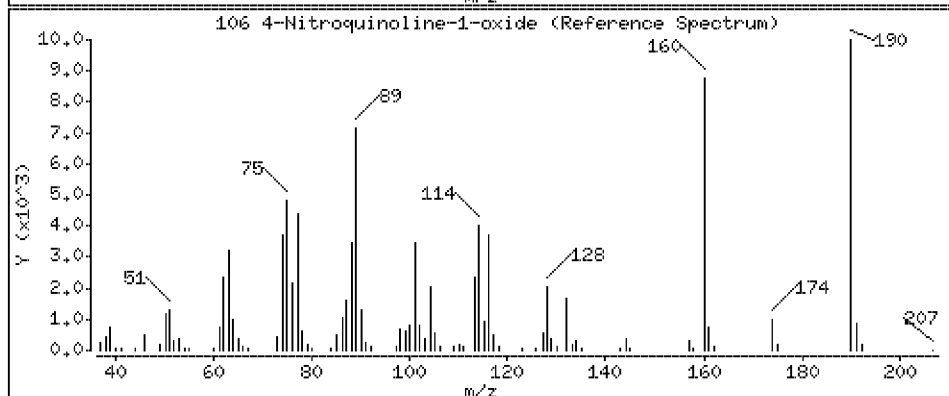
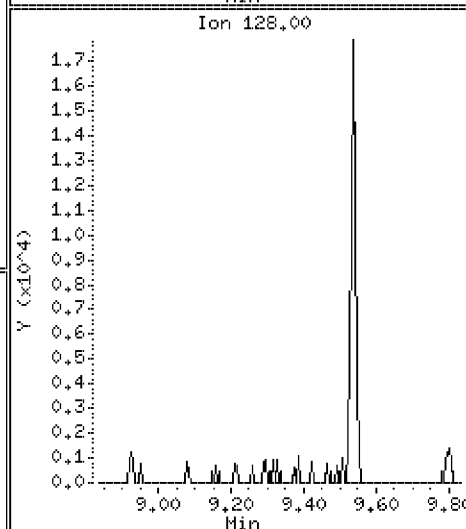
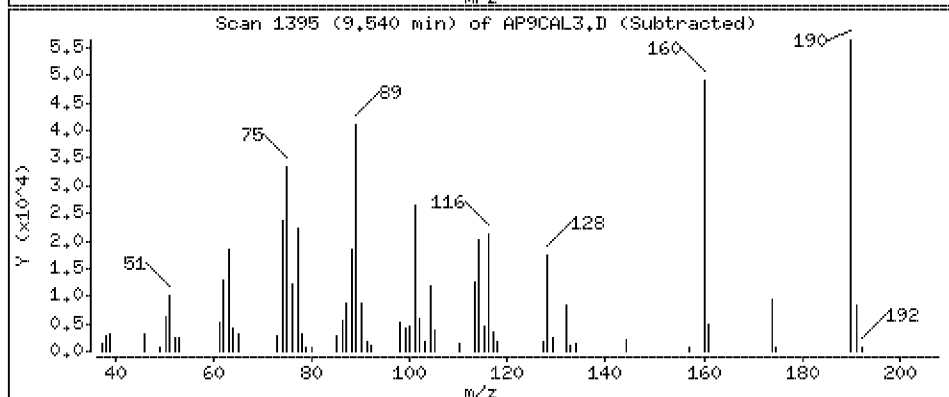
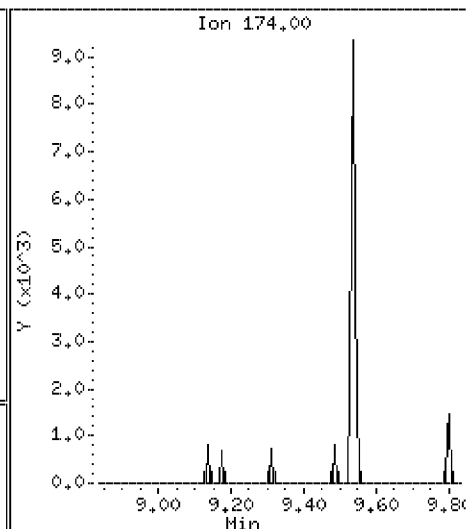
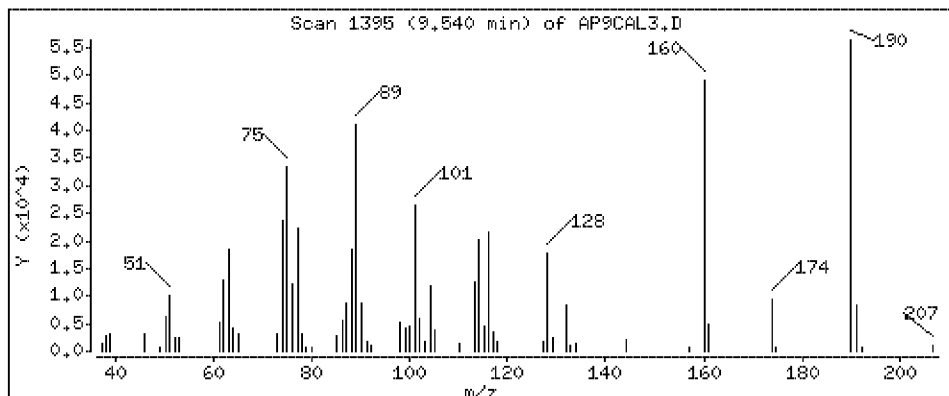
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

106 4-Nitroquinoline-1-oxide

Concentration: 21.2 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

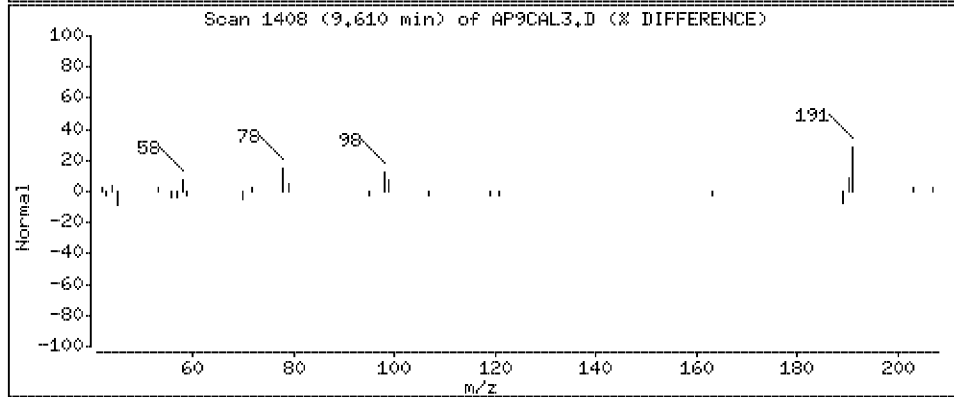
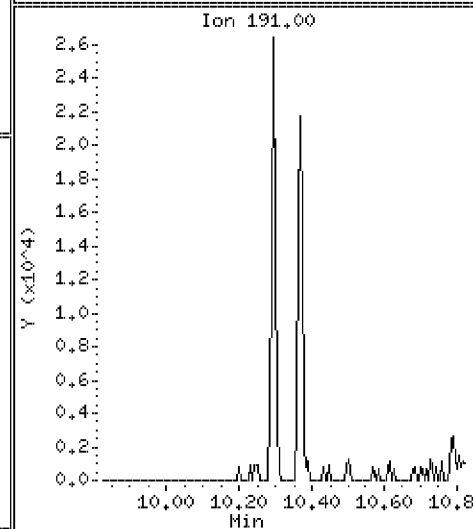
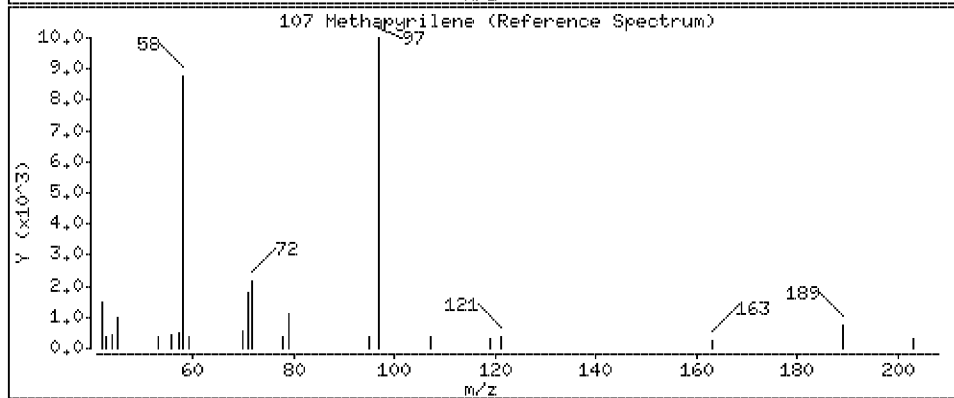
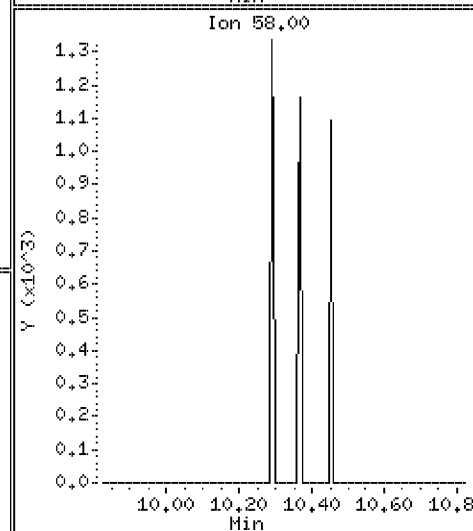
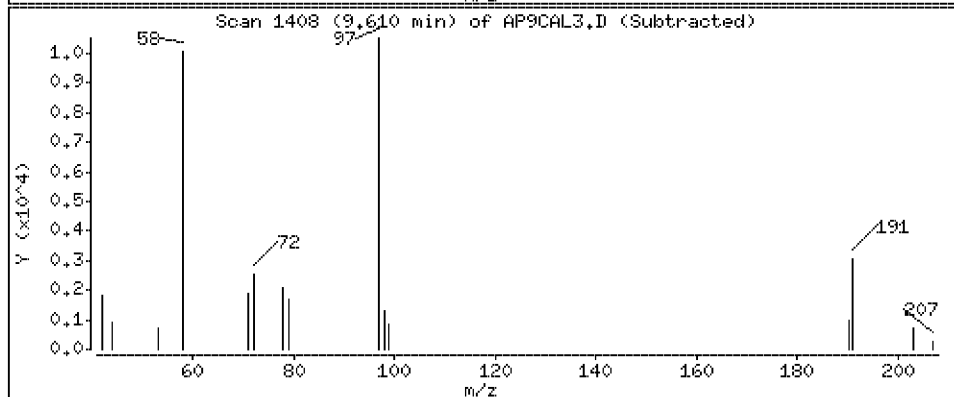
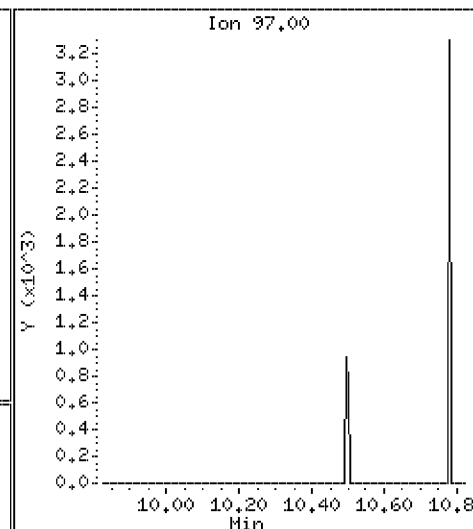
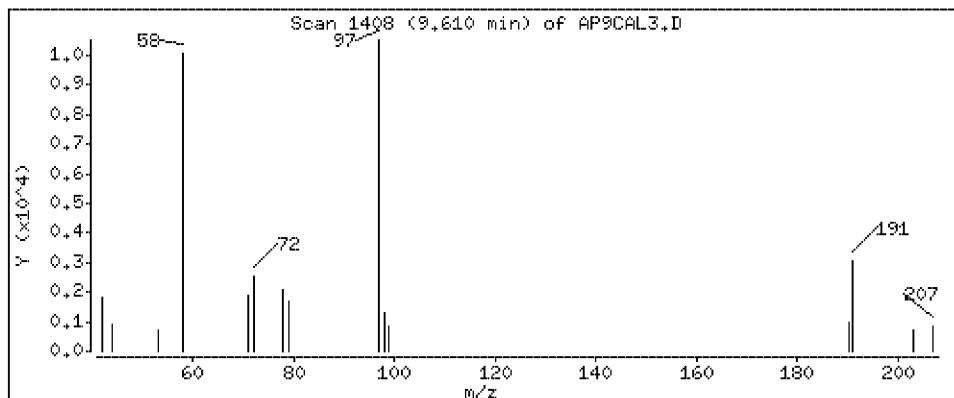
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

107 Methapyrilene

Concentration: 20.0 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

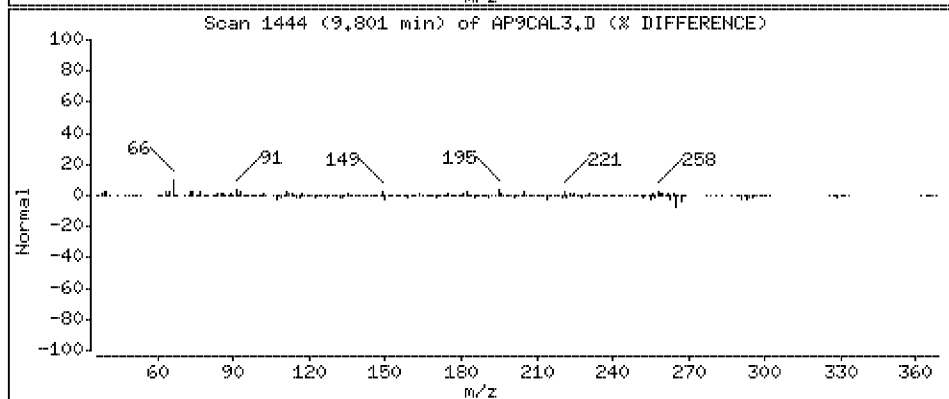
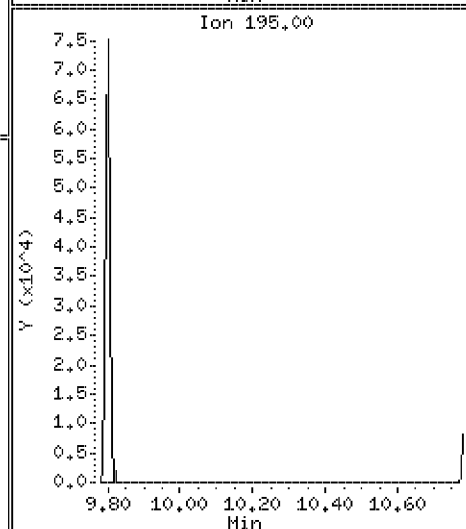
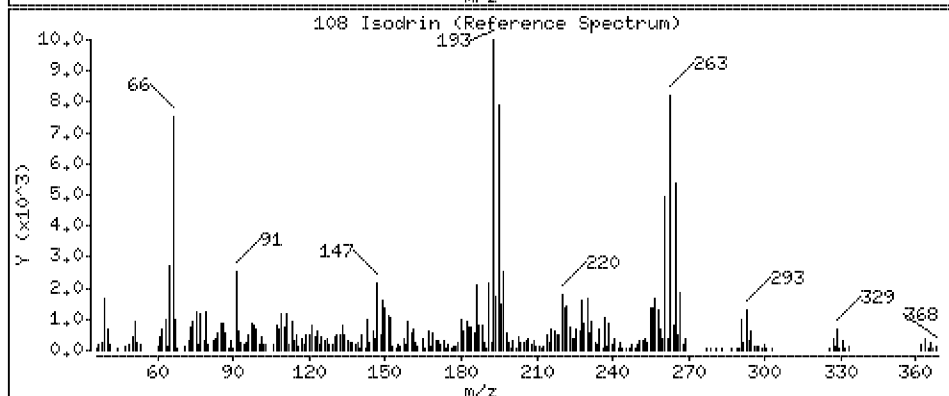
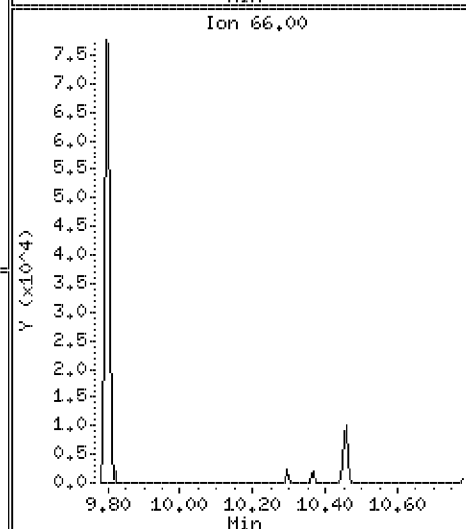
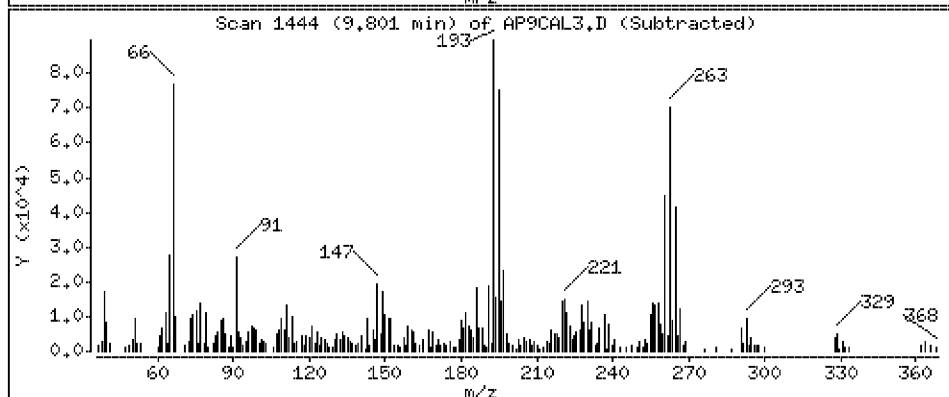
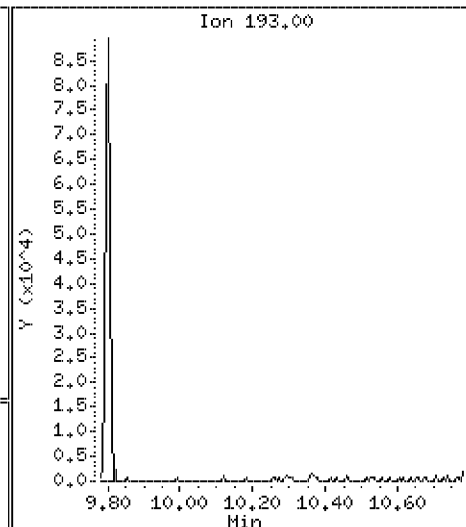
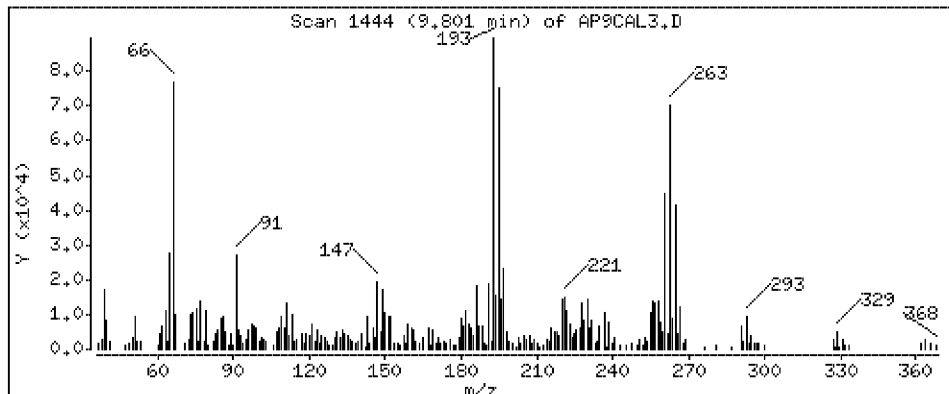
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

108 Isodrin

Concentration: 20.3 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

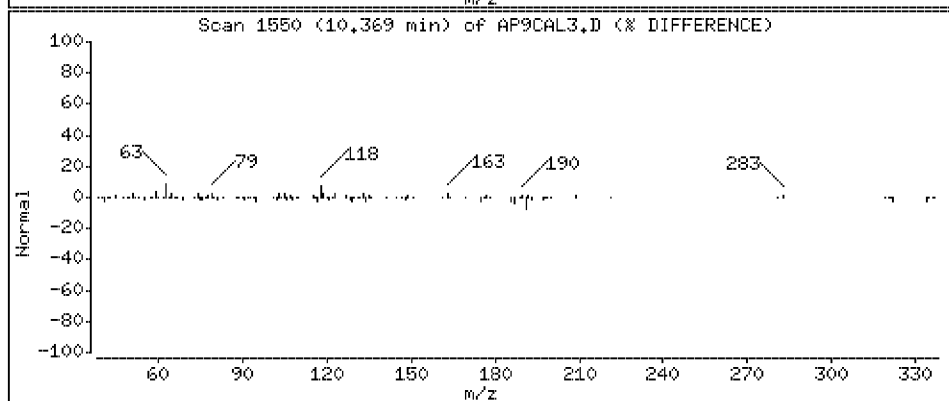
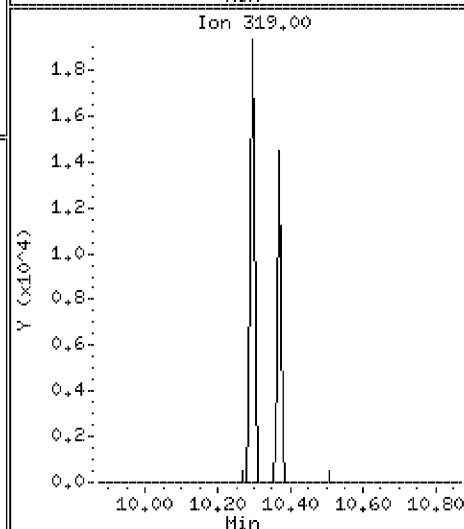
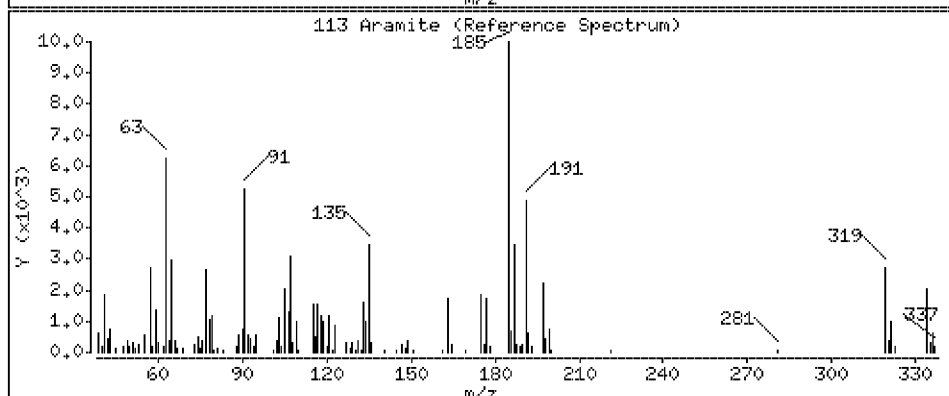
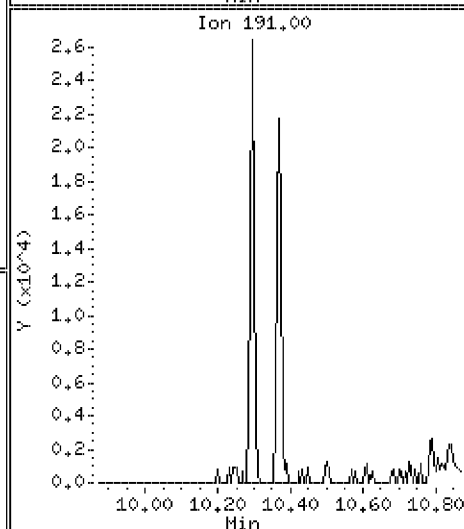
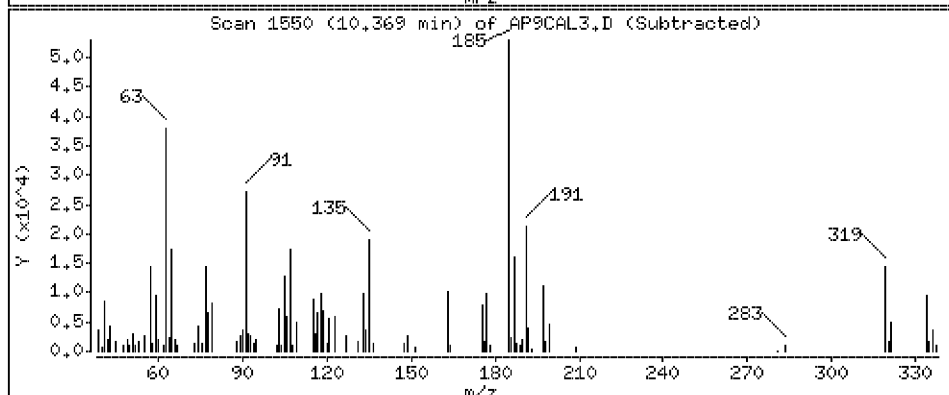
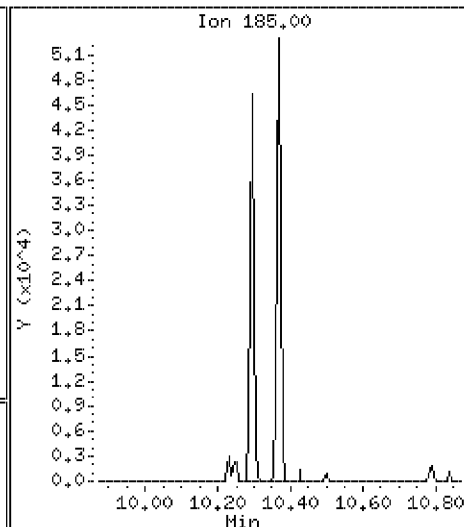
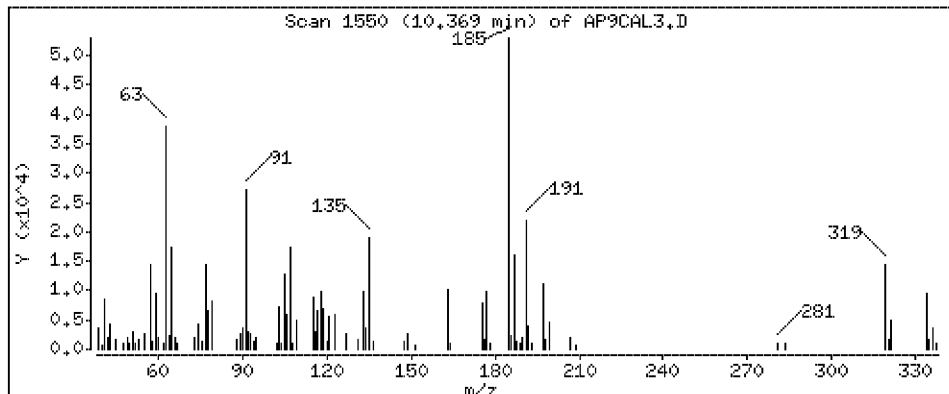
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

113 Aramite

Concentration: 19.9 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

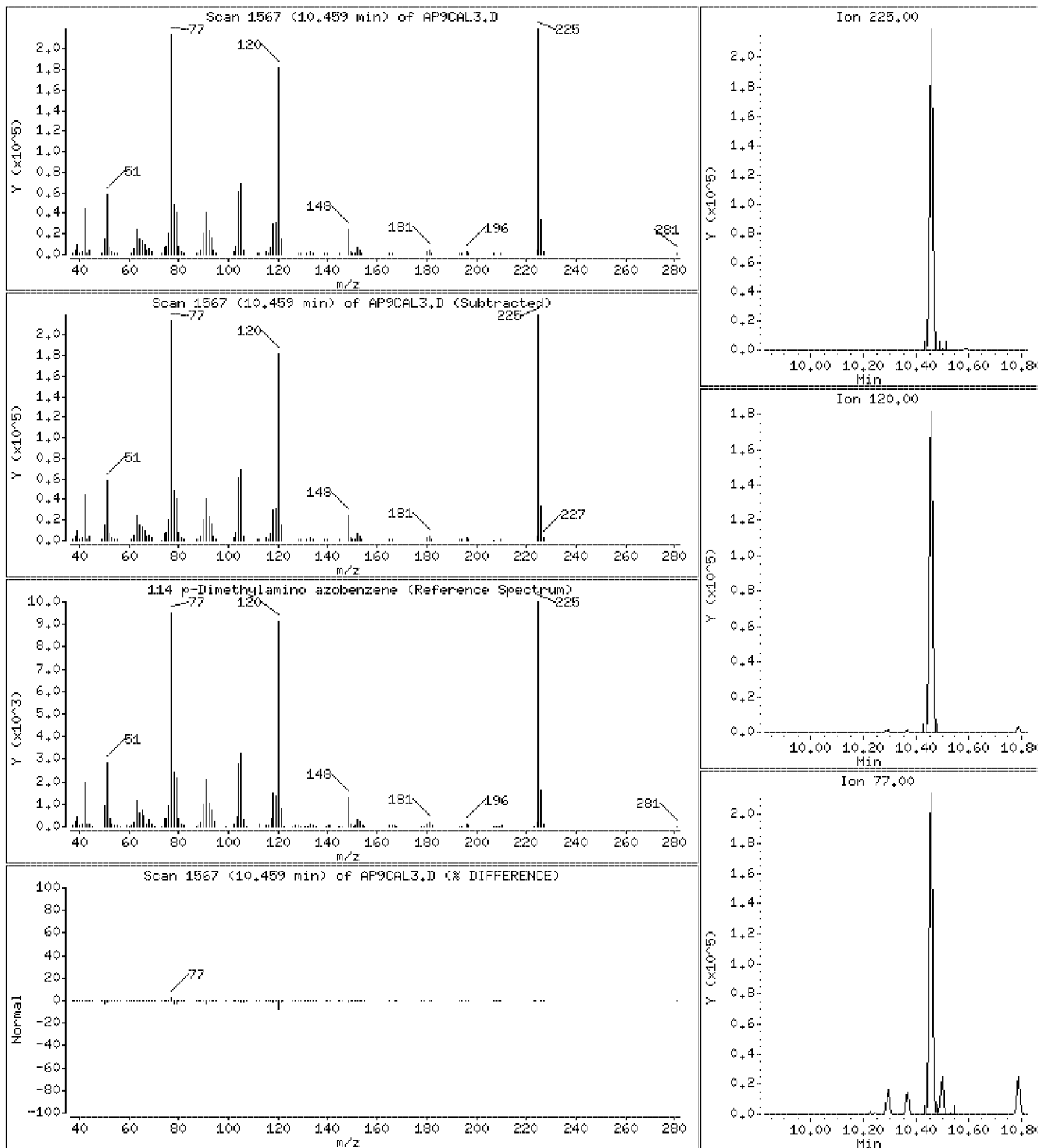
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

114 p-Dimethylamino azobenzene

Concentration: 18.8 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

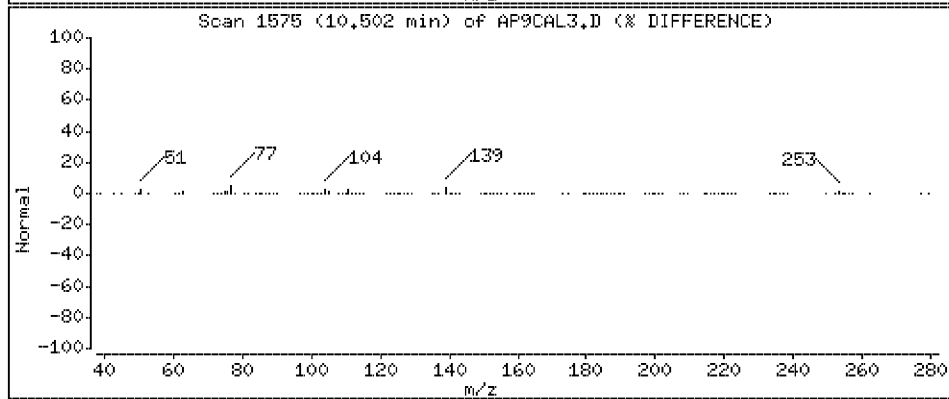
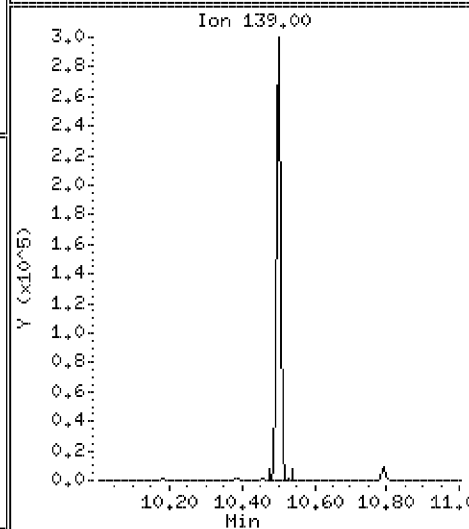
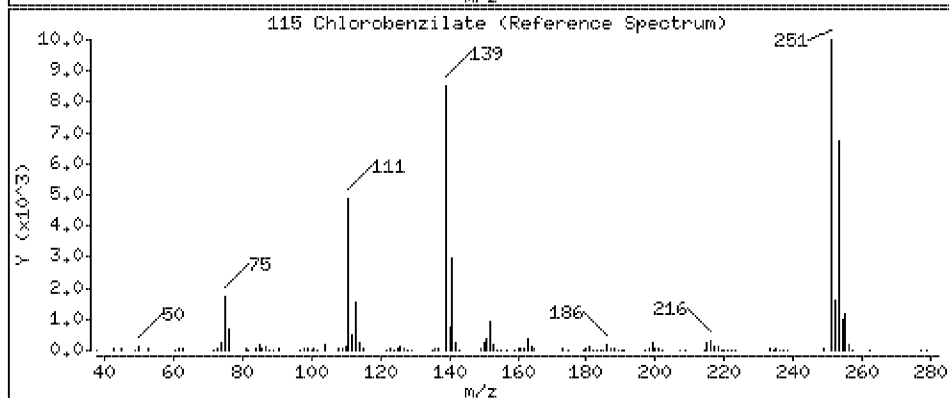
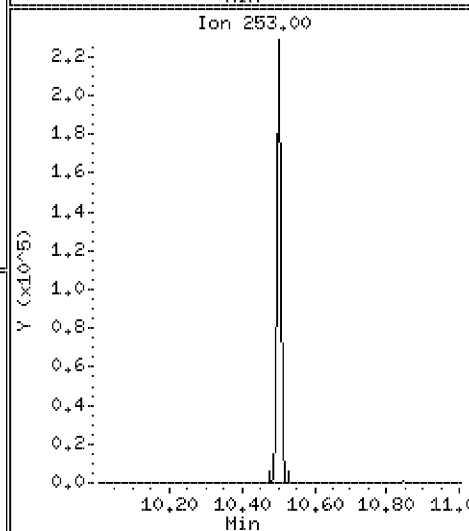
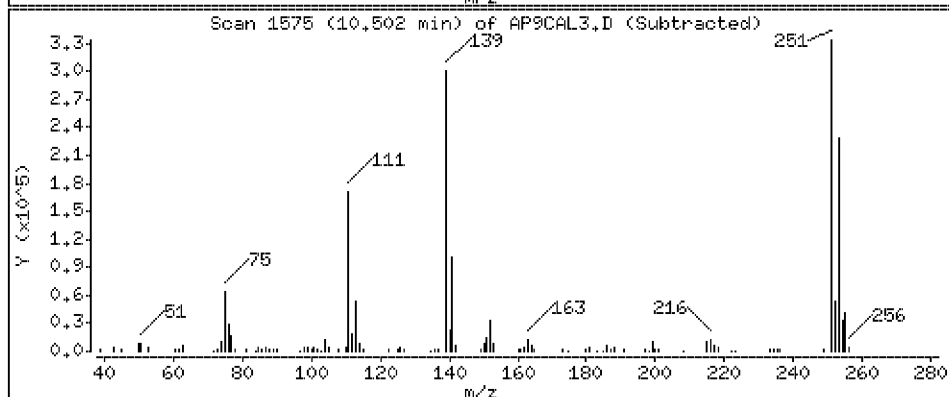
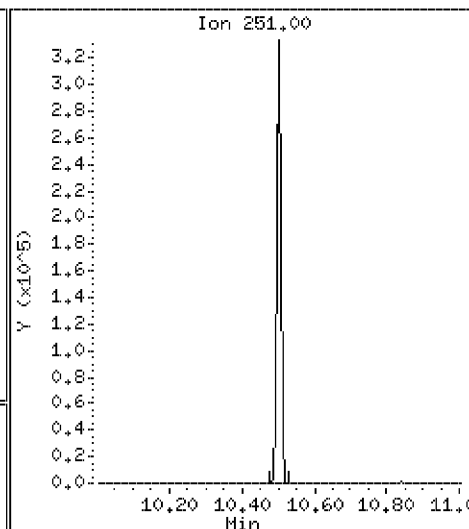
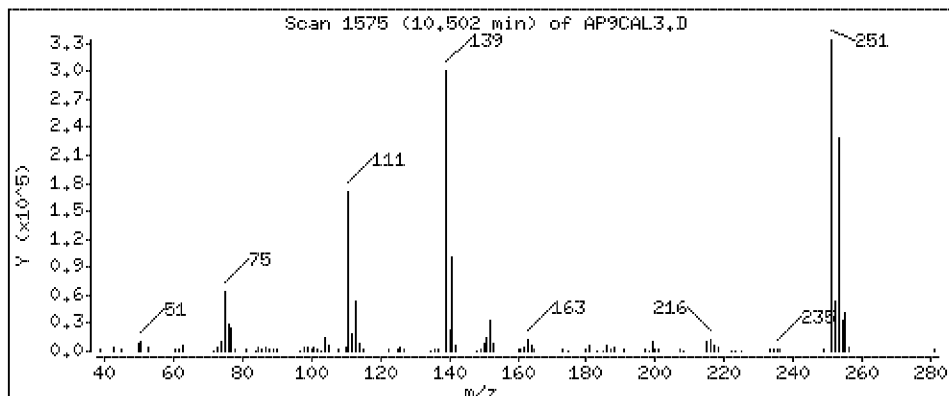
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

115 Chlorobenzilate

Concentration: 18.5 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

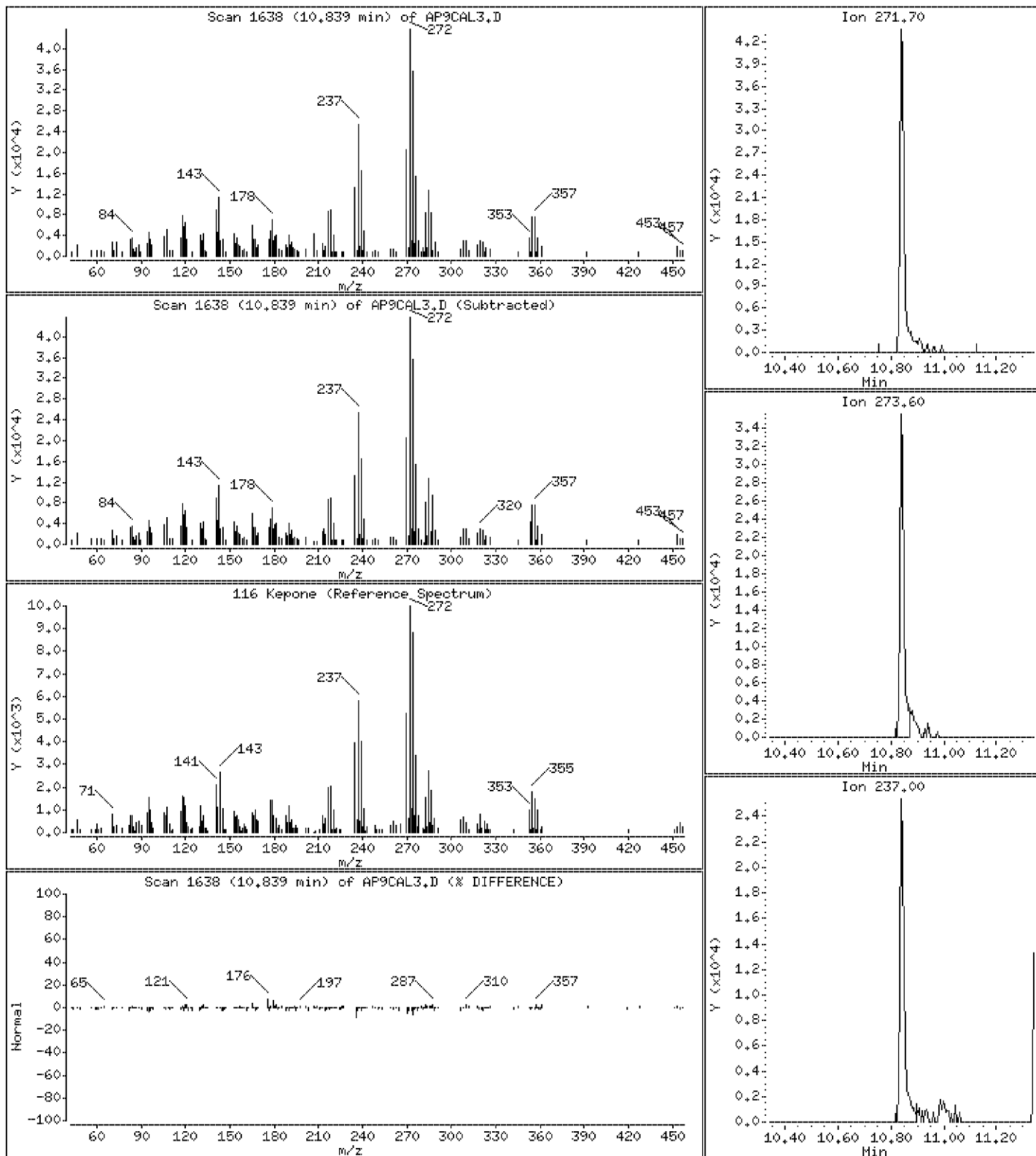
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

116 Kepone

Concentration: 21.2 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

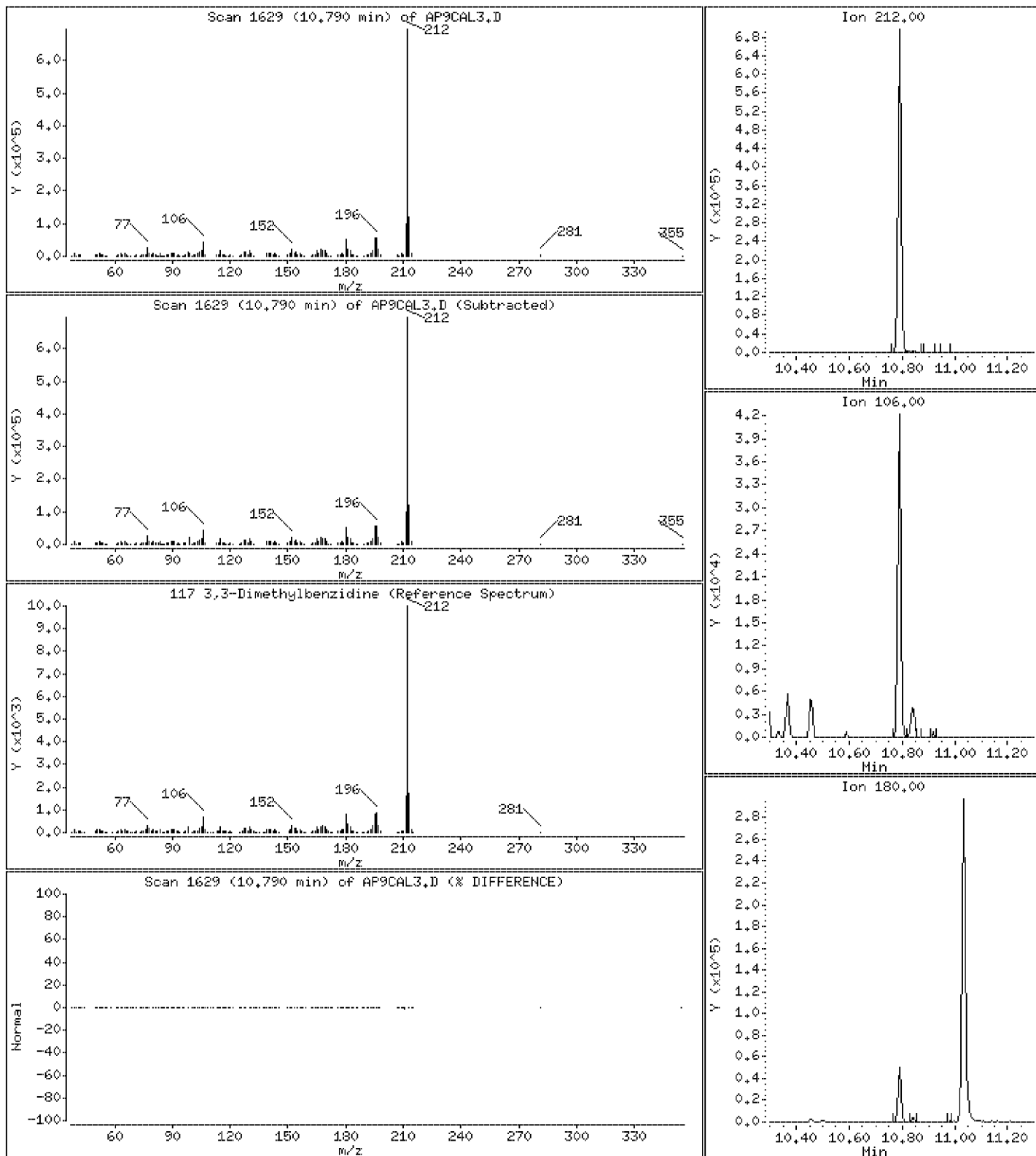
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

117 3,3-Dimethylbenzidine

Concentration: 20.5 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

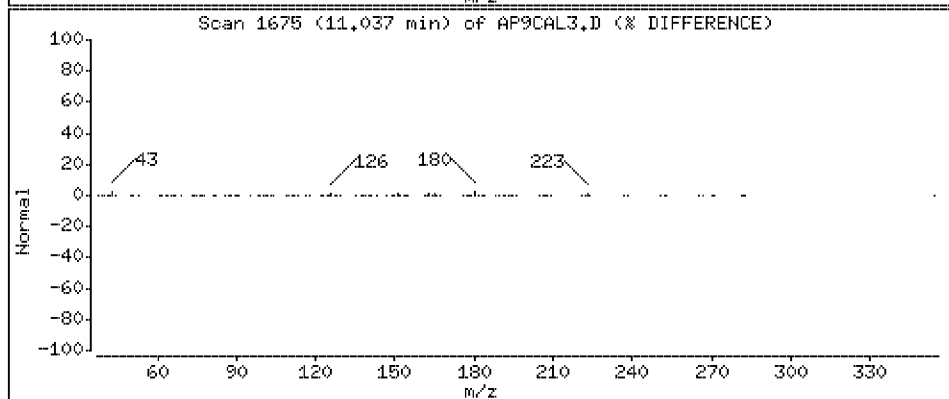
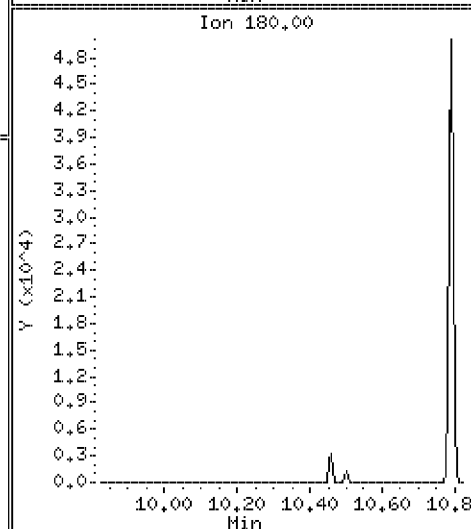
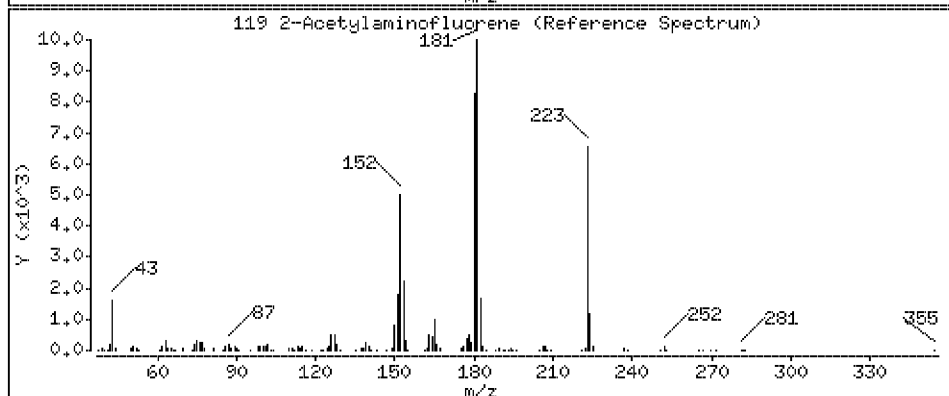
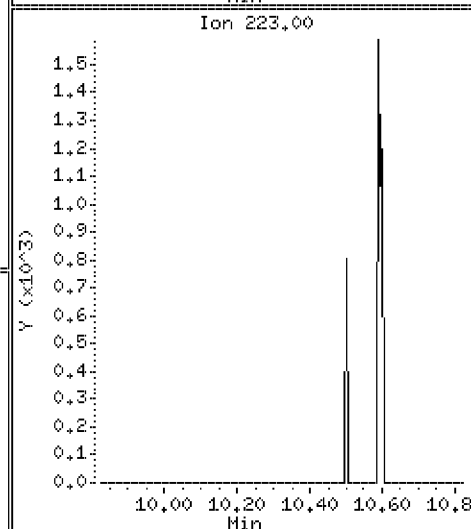
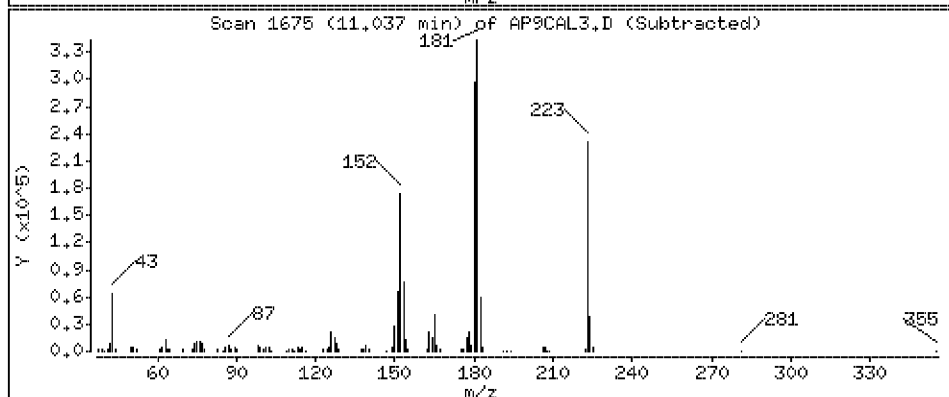
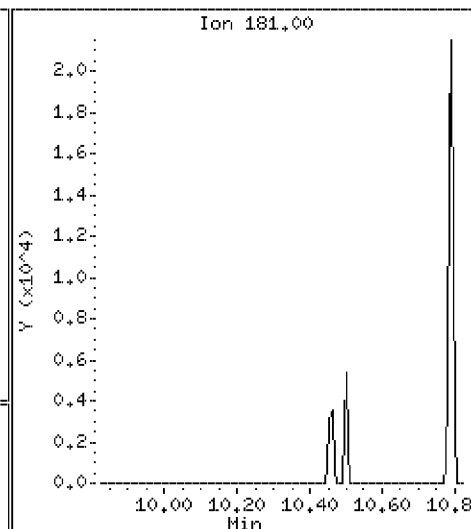
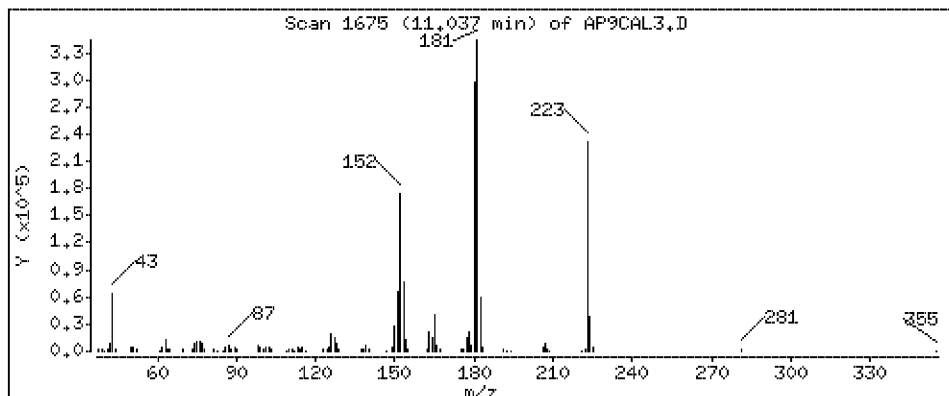
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

119 2-Acetylaminofluorene

Concentration: 18.6 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

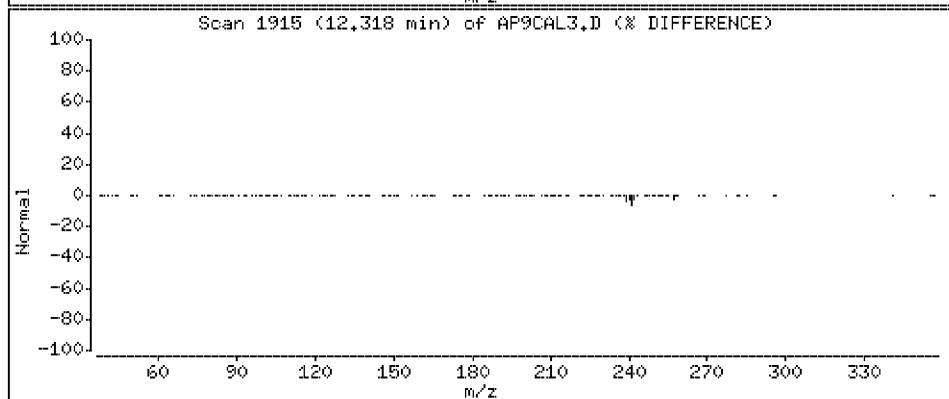
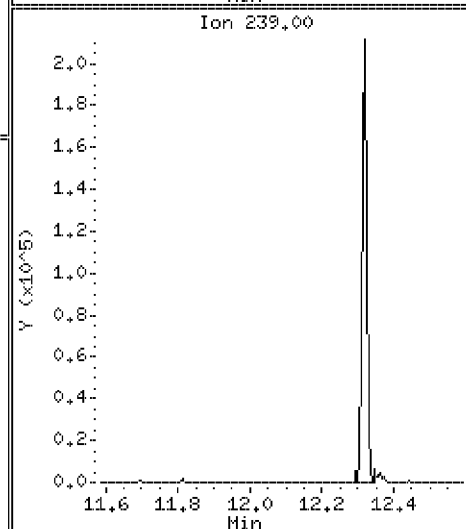
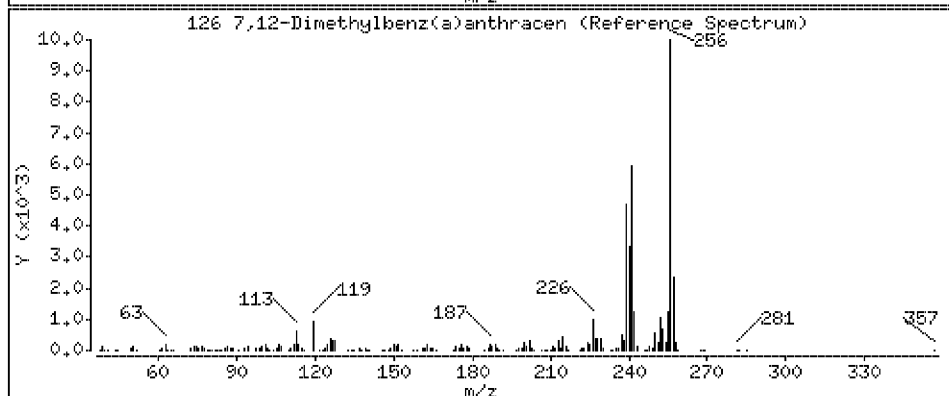
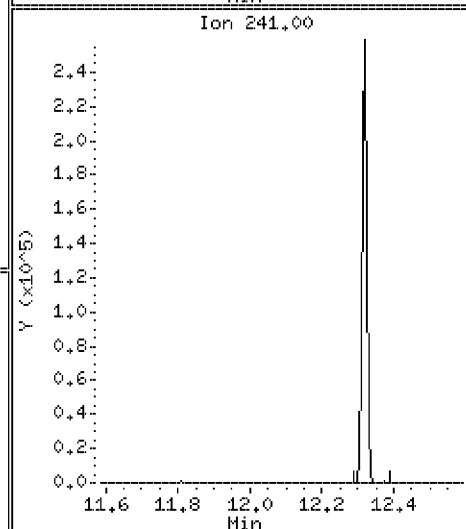
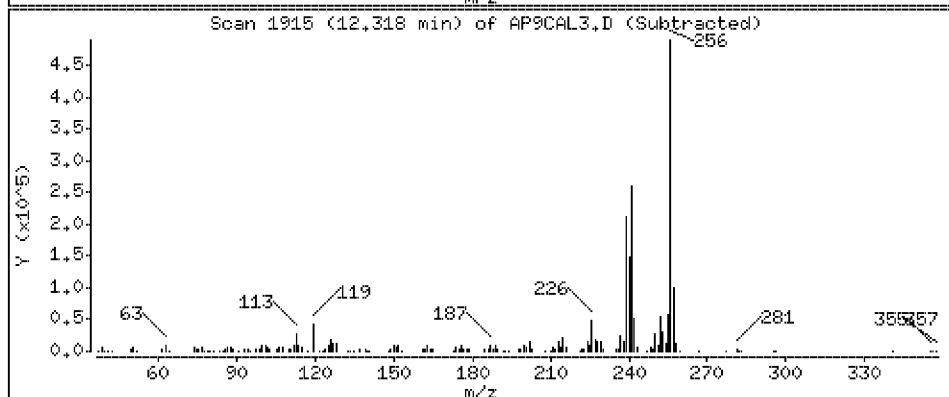
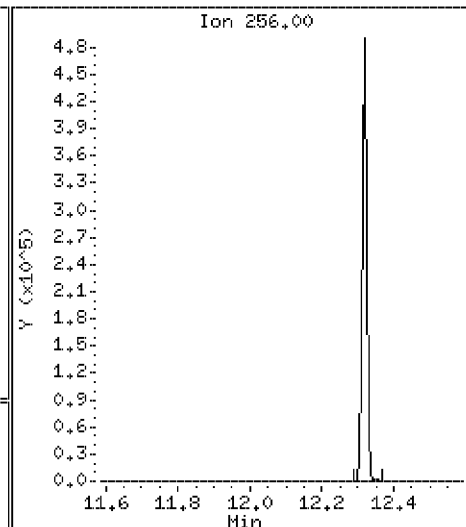
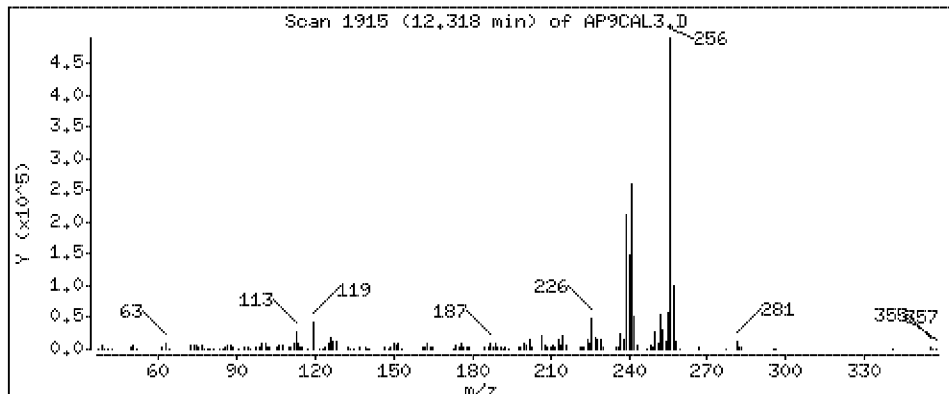
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

126 7,12-Dimethylbenz(a)anthracen

Concentration: 18.8 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

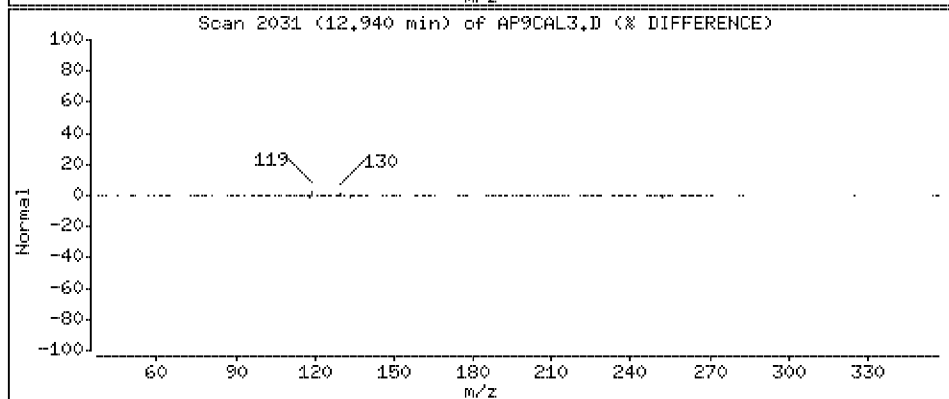
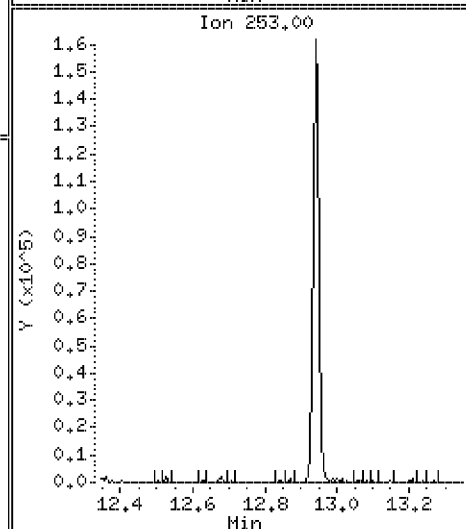
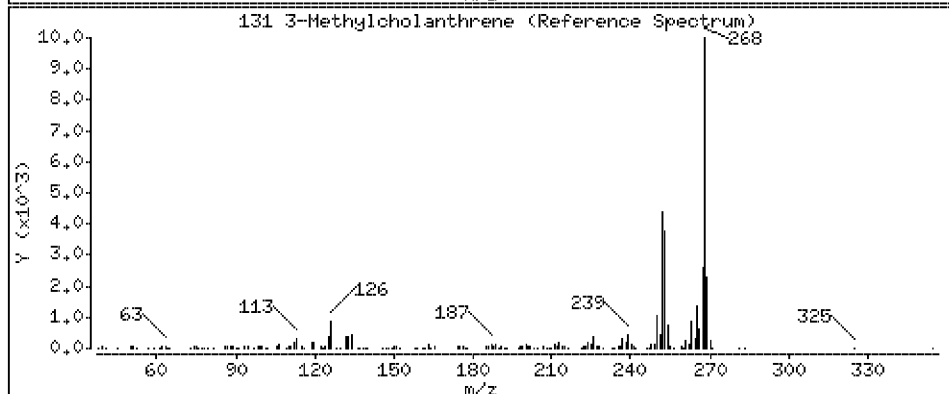
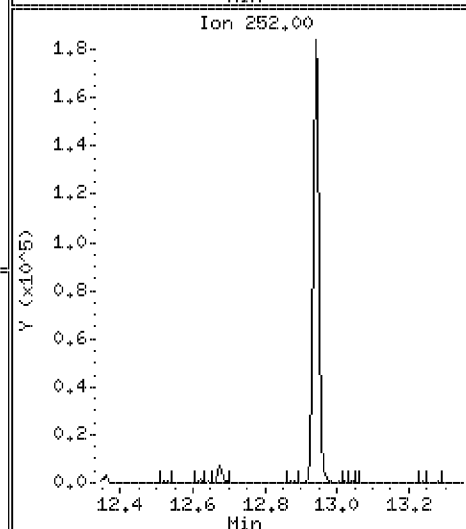
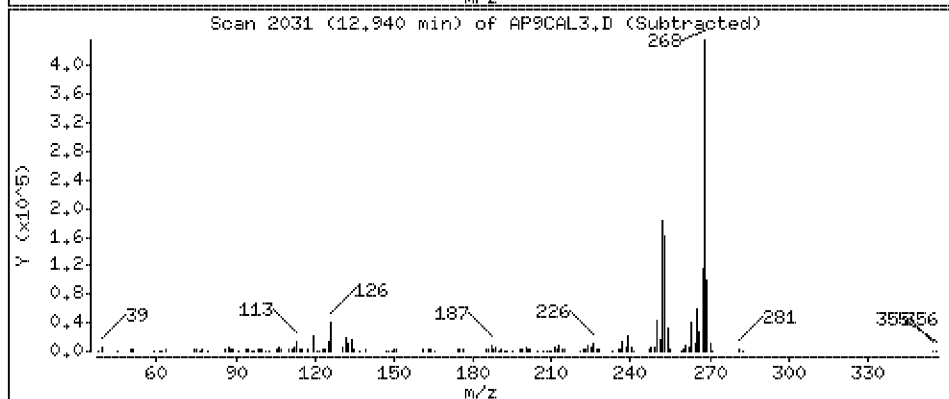
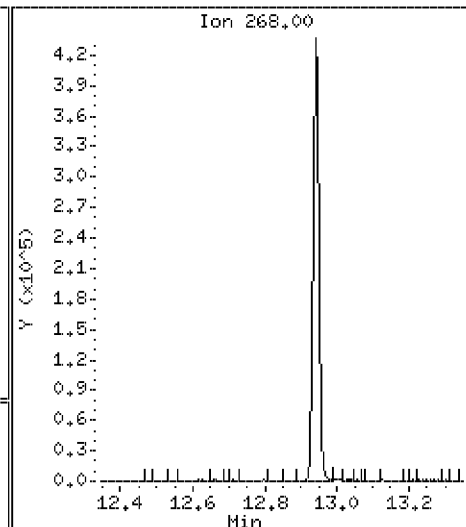
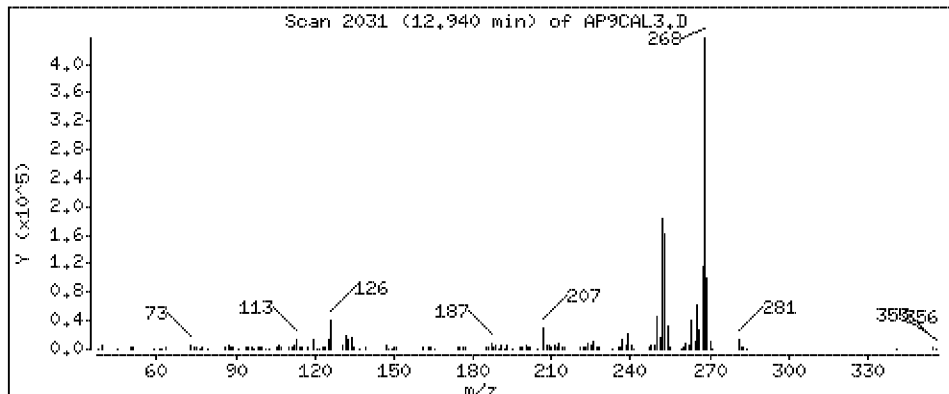
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

131 3-Methylcholanthrene

Concentration: 19.3 ug/l



Date : 23-APR-2012 18:41

Client ID: AP9CAL3

Instrument: smsd03.i

Sample Info: 45959

Purge Volume: 1000.0

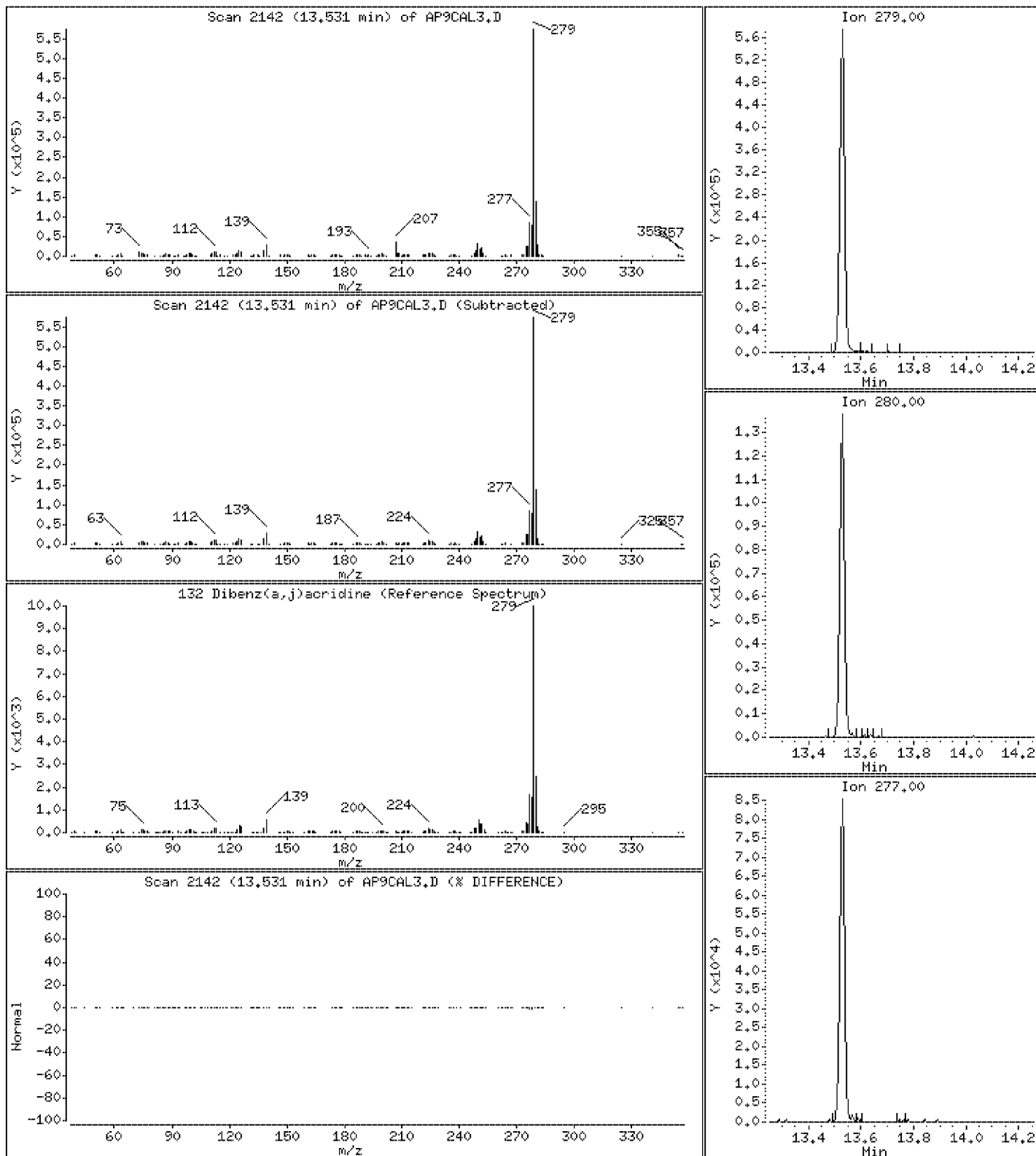
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

132 Dibenz(a,j)acridine

Concentration: 19.8 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3042312.b\AP9CAL2.D
 Lab Smp Id: 45960 Client Smp ID: AP9CAL2
 Inj Date : 23-APR-2012 19:04
 Operator : MJ Inst ID: smsd03.i
 Smp Info : 45960
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270bcs.m
 Meth Date : 25-Apr-2012 09:57 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 19:04 Cal File: AP9CAL2.D
 Als bottle: 23 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ap9cal.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
3 2- Picoline CAS #: 109-06-8									
2.937	3.382 (0.661)		93	95886	10.0000	9.1	70.00- 130.00	100.00	
2.937	3.382 (0.661)		66	48360			46.98- 106.98	50.43	
2.937	3.382 (0.661)		92	25485			941.44-1001.44	26.58	
4 N-Nitrosomethylethylamine CAS #: 10595-95-6									
3.007	3.005 (0.676)		88	42940	10.0000	9.5	80.00- 120.00	100.00	
3.010	3.005 (0.677)		43	21270			16.66- 76.66	49.53	
3.009	3.005 (0.677)		42	43415			75.28- 135.28	101.11	
5 Methyl Methanesulfonate CAS #: 66-27-3									
3.238	3.383 (0.728)		80	71810	10.0000	9.6	70.00- 130.00	100.00	
3.239	3.383 (0.729)		79	42581			41.30- 101.30	59.30	
3.238	3.383 (0.728)		65	19306			390.98- 450.98	26.88	
7 N-Nitrosodiethylamine CAS #: 55-18-5									
3.552	3.383 (0.799)		102	41839	10.0000	9.4	70.00- 130.00	100.00	
3.551	3.383 (0.799)		42	30283			4947.35-5007.35	72.38	
3.552	3.383 (0.799)		57	16241			172953.97-173013.97	38.82	
8 Ethyl Methanesulfonate CAS #: 62-50-0									
3.787	4.446 (0.852)		79	74778	10.0000	9.7	70.00- 130.00	100.00	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
8 Ethyl Methanesulfonate (continued)								
3.787	4.446	(0.852)	109	35542			103.08- 163.08	47.53
3.786	4.446	(0.852)	97	11487			71.09- 131.09	15.36

12 Pentachloroethane CAS #: 76-01-7								
4.206	4.207	(0.946)	167	39295	10.0000	8.9	80.00- 120.00	100.00
4.206	4.207	(0.946)	117	28233			42.54- 102.54	71.85
4.207	4.207	(0.946)	130	17286			11.81- 71.81	43.99

* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1								
4.446	4.448	(1.000)	152	288079	40.0000		80.00- 120.00	100.00
4.445	4.448	(1.000)	115	181710			32.20- 92.20	63.08
4.446	4.448	(1.000)	150	441725			139.77- 199.77	153.33

24 N-Nitrosopyrrolidine CAS #: 930-55-2								
4.780	4.944	(1.075)	100	41648	10.0000	8.9	70.00- 130.00	100.00
4.781	4.944	(1.075)	41	29816			349.38- 409.38	71.59
4.780	4.944	(1.075)	42	26705			7836.39-7896.39	64.12

25 Acetophenone CAS #: 98-86-2								
4.797	4.807	(0.856)	105	130434	10.0000	9.6	70.00- 130.00	100.00
4.797	4.807	(0.856)	77	126428			4410.01-4470.01	96.93
4.797	4.807	(0.856)	51	32880			1262.06-1322.06	25.21

27 N-Nitrosomorpholine CAS #: 59-89-2								
4.812	4.446	(1.082)	56	43191	10.0000	9.0	70.00- 130.00	100.00
4.813	4.446	(1.082)	116	15074			116.25- 176.25	34.90
4.811	4.446	(1.082)	86	32931			171.65- 231.65	76.25

29 o-Toluidine CAS #: 95-53-4								
4.830	4.814	(1.086)	106	138437	10.0000	9.0	70.00- 130.00	100.00
4.830	4.814	(1.086)	77	35735			36058.41-36118.41	25.81
4.830	4.814	(1.086)	107	99211			76505.71-76565.71	71.67

33 N-Nitrosopiperidine CAS #: 100-75-4								
5.094	4.798	(0.909)	114	39005	10.0000	9.4	70.00- 130.00	100.00
5.092	4.798	(0.908)	42	45727			3934.42-3994.42	117.23
5.092	4.798	(0.908)	55	23278			491.51- 551.51	59.68

37 o,o,o-Triethylphosphorothioate CAS #: 126-68-1								
5.336	5.338	(1.200)	198	61179	10.0000	8.8	80.00- 120.00	100.00
5.335	5.338	(1.200)	97	41767			34.93- 94.93	68.27
5.335	5.338	(1.200)	65	31024			24.79- 84.79	50.71

39 a,a-Dimethylphenethylamine CAS #: 122-09-8								
5.443	5.370	(0.971)	58	136016	10.0000	9.4	70.00- 130.00	100.00(M)
5.441	5.370	(0.970)	91	42883			64.34- 124.34	31.53
5.440	5.370	(0.970)	65	24940			12409.05-12469.05	18.34

* 43 Naphthalene-d8 CAS #: 1146-65-2								
5.607	5.610	(1.000)	136	950379	40.0000		80.00- 120.00	100.00
5.606	5.610	(1.000)	68	52908			0.00- 35.51	5.57

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
====	=====	=====	=====	=====	=====	=====	=====	=====
46 2,6-Dichlorophenol			CAS #: 87-65-0					
5.689	5.691 (1.015)	162	70613	10.0000	8.9	70.00- 130.00	100.00	
5.688	5.691 (1.014)	63	54851			8424.37-8484.37	77.68	
5.688	5.691 (1.015)	98	20758			164.07- 224.07	29.40	

47 Hexachloropropene			CAS #: 1888-71-7					
5.712	5.712 (1.019)	213	100424	10.0000	9.5	80.00- 120.00	100.00	
5.712	5.712 (1.019)	215	62141			34.61- 94.61	61.88	
5.711	5.712 (1.019)	117	19185			0.00- 50.39	19.10	

49 N-Nitrosodi-n-butylamine			CAS #: 924-16-3					
5.989	6.287 (1.068)	84	66018	10.0000	8.6	70.00- 130.00	100.00	
5.989	6.287 (1.068)	57	41177			1288.18-1348.18	62.37	
5.988	6.287 (1.068)	41	33141			66.46- 126.46	50.20	

52 Isosafrole			CAS #: 120-58-1					
6.198	6.619 (1.105)	162	72082	10.0000	9.4	70.00- 130.00	100.00	
6.198	6.619 (1.105)	104	53732			0.00- 46.22	74.54	
6.199	6.619 (1.106)	131	33757			37.69- 97.69	46.83	

56 1,2,4,5-Tetrachlorobenzene			CAS #: 95-94-3					
6.450	6.452 (0.883)	216	112420	10.0000	9.0	80.00- 120.00	100.00	
6.450	6.452 (0.883)	214	88106			48.19- 108.19	78.37	
6.449	6.452 (0.883)	108	22033			0.00- 47.81	19.60	

60 Safrole			CAS #: 94-59-7					
6.701	6.619 (1.195)	162	69459	10.0000	9.6	70.00- 130.00	100.00	
6.701	6.619 (1.195)	104	43548			0.00- 46.22	62.70	
6.701	6.619 (1.195)	77	28312			0.00- 57.00	40.76	

64 1,4-Naphthoquinone			CAS #: 130-15-4					
6.930	6.642 (0.949)	158	61149	10.0000	8.7	70.00- 130.00	100.00	
6.929	6.642 (0.949)	102	55333			523.56- 583.56	90.49	
6.929	6.642 (0.949)	130	28745			0.00- 46.52	47.01	

66 1,3-Dinitrobenzene			CAS #: 99-65-0					
7.067	7.368 (0.968)	168	30479	10.0000	9.2	70.00- 130.00	100.00	
7.065	7.368 (0.968)	75	41540			98.40- 158.40	136.29	
7.065	7.368 (0.968)	50	21636			177.84- 237.84	70.99	

* 70 Acenaphthene-d10			CAS #: 15067-26-2					
7.302	7.305 (1.000)	164	655653	40.0000		80.00- 120.00	100.00	
7.302	7.305 (1.000)	162	630453			64.73- 124.73	96.16	
7.302	7.305 (1.000)	160	292064			12.46- 72.46	44.55	

73 Pentachlorobenzene			CAS #: 608-93-5					
7.465	7.467 (1.022)	250	109896	10.0000	9.1	80.00- 120.00	100.00	
7.465	7.467 (1.022)	252	70576			34.92- 94.92	64.22	
7.464	7.467 (1.022)	108	30632			0.00- 56.94	27.87	

77 1-Naphthylamine			CAS #: 134-32-7					
7.579	7.837 (1.038)	143	108631	10.0000	9.5	70.00- 130.00	100.00	
7.578	7.837 (1.038)	115	62079			7143.21-7203.21	57.15	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====
77 1-Naphthylamine (continued)								
7.577	7.837	(1.038)	89	12749			2068.79-2128.79	11.74

78 2,3,4,6-Tetrachlorophenol CAS #: 58-90-2								
7.632	7.634	(1.045)	232	59926	10.0000	9.0	70.00- 130.00	100.00
7.630	7.634	(1.045)	168	15097			42.05- 102.05	25.19
7.630	7.634	(1.045)	131	23462			9.10- 69.10	39.15

79 2-Naphthylamine CAS #: 91-59-8								
7.656	7.837	(1.048)	143	144153	10.0000	9.6	70.00- 130.00	100.00
7.656	7.837	(1.048)	115	82931			7143.21-7203.21	57.53
7.656	7.837	(1.048)	116	32031			667.96- 727.96	22.22

83 5-Nitro-ortho-toluidine CAS #: 99-55-8								
7.851	7.896	(1.075)	152	51984	10.0000	8.9	70.00- 130.00	100.00
7.851	7.896	(1.075)	106	41072			505.60- 565.60	79.01
7.850	7.896	(1.075)	77	68089			735.48- 795.48	130.98

90 1,3,5-Trinitrobenzene CAS #: 99-35-4								
8.212	8.152	(1.125)	75	122176	10.0000	10.6	70.00- 130.00	100.00
8.212	8.152	(1.125)	74	76542			50.14- 110.14	62.65
8.213	8.152	(1.125)	213	45564			40.88- 100.88	37.29

89 Diallate CAS #: 2303-16-4								
8.232	8.081	(1.127)	86	72939	10.0000	9.0	70.00- 130.00	100.00(M)
8.232	8.081	(1.127)	43	70519			0.00- 38.70	96.68
8.232	8.081	(1.127)	234	51444			0.00- 39.00	70.53

92 Phenacetin CAS #: 62-44-2								
8.254	8.384	(0.942)	109	90110	10.0000	10.2	70.00- 130.00	100.00
8.254	8.384	(0.942)	108	89585			77.38- 137.38	99.42
8.254	8.384	(0.942)	179	51679			133.19- 193.19	57.35

91 p-Phenylenediamine CAS #: 106-50-3								
8.254	8.082	(0.942)	108	89585	10.0000	9.3	70.00- 130.00	100.00
8.253	8.082	(0.942)	80	24205			1858.68-1918.68	27.02
8.253	8.082	(0.942)	53	10037			5306.16-5366.16	11.20

97 Pentachloronitrobenzene CAS #: 82-68-8								
8.587	8.589	(0.980)	237	42770	10.0000	9.4	80.00- 120.00	100.00
8.586	8.589	(0.980)	295	15930			7.36- 67.36	37.25
8.585	8.589	(0.980)	142	31285			42.99- 102.99	73.15

98 4-Aminobiphenyl CAS #: 92-67-1								
8.571	8.584	(0.979)	169	215358	10.0000	9.8	70.00- 130.00	100.00
8.571	8.584	(0.979)	168	43953			0.00- 49.63	20.41
8.570	8.584	(0.978)	115	23750			0.00- 40.98	11.03

99 Pronamide CAS #: 23950-58-5								
8.627	8.781	(0.985)	173	98768	10.0000	9.1	70.00- 130.00	100.00
8.627	8.781	(0.985)	175	67009			2051.90-2111.90	67.84
8.627	8.781	(0.985)	145	38852			63.94- 123.94	39.34

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 100 Phenanthrene-d10					CAS #: 1517-22-2				
8.758	8.761	(1.000)	188	1266563	40.0000		80.00- 120.00	100.00	
8.757	8.761	(1.000)	94	77001			0.00- 36.35	6.08	
8.757	8.761	(1.000)	80	95376			0.00- 37.82	7.53	
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102 Dinoseb					CAS #: 88-85-7				
8.751	8.753	(0.999)	211	50485	10.0000	9.8	80.00- 120.00	100.00	
8.750	8.753	(0.999)	163	19804			7.77- 67.77	39.23	
8.750	8.753	(0.999)	117	10181			0.00- 52.05	20.17	
-----					-----				
106 4-Nitroquinoline-1-oxide					CAS #: 56-57-5				
9.540	9.334	(1.089)	174	3801	10.0000	10.1	70.00- 130.00	100.00(Q)	
9.539	9.334	(1.089)	128	8014			429.24- 489.24	210.84	
9.539	9.334	(1.089)	101	13703			988.96-1048.96	360.51	
-----					-----				
107 Methapyrilene					CAS #: 91-80-5				
9.610	10.322	(1.097)	97	3600	10.0000	8.5	70.00- 130.00	100.00(M)	
9.610	10.322	(1.097)	58	3254			11.52- 71.52	90.39	
9.604	10.322	(1.097)	191	209			0.00- 52.18	5.81	
-----					-----				
108 Isodrin					CAS #: 465-73-6				
9.800	10.279	(1.119)	193	36940	10.0000	9.6	70.00- 130.00	100.00	
9.798	10.279	(1.119)	66	33439			17952.44-18012.44	90.52	
9.800	10.279	(1.119)	195	29694			1135.23-1195.23	80.38	
-----					-----				
113 Aramite					CAS #: 140-57-8				
10.363	10.370	(0.913)	185	35863	10.0000	9.5	80.00- 120.00	100.00(M)	
10.368	10.370	(0.913)	191	17797			21.78- 81.78	49.62	
10.294	10.370	(0.907)	319	12008			6.67- 66.67	33.48	
-----					-----				
114 p-Dimethylamino azobenzene					CAS #: 60-11-7				
10.457	10.323	(0.921)	225	82469	10.0000	8.8	70.00- 130.00	100.00	
10.456	10.323	(0.921)	120	74079			99.50- 159.50	89.83	
10.455	10.323	(0.921)	77	87473			9.48- 69.48	106.07	
-----					-----				
115 Chlorobenzilate					CAS #: 510-15-6				
10.501	10.503	(0.925)	251	124012	10.0000	8.6	80.00- 120.00	100.00	
10.500	10.503	(0.925)	253	81743			35.78- 95.78	65.92	
10.499	10.503	(0.925)	139	115127			60.72- 120.72	92.84	
-----					-----				
116 Kepone					CAS #: 143-50-0				
10.838	10.840	(0.955)	272	24309	10.0000	9.9	80.00- 120.00	100.00(M)	
10.839	10.840	(0.955)	274	18289			51.74- 111.74	75.24	
10.839	10.840	(0.955)	237	12706			0.00- 59.52	52.27	
-----					-----				
117 3,3-Dimethylbenzidine					CAS #: 119-93-7				
10.788	10.799	(0.950)	212	276026	10.0000	9.8	70.00- 130.00	100.00	
10.787	10.799	(0.950)	106	15819			2299.94-2359.94	5.73	
10.788	10.799	(0.950)	180	18409			6.44- 66.44	6.67	
-----					-----				
119 2-Acetylaminofluorene					CAS #: 53-96-3				
11.033	10.324	(0.972)	181	140685	10.0000	8.6	70.00- 130.00	100.00	
11.034	10.324	(0.972)	223	93143			491.83- 551.83	66.21	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
119 2-Acetylaminofluorene (continued)									
11.033	10.324	(0.972)	180	114838			639.65- 699.65	81.63	

* 121 Chrysene-d12 CAS #: 1719-03-5									
11.352	11.359	(1.000)	240	1581923	40.0000		80.00- 120.00	100.00	
11.351	11.359	(1.000)	120	84077			0.00- 36.38	5.31	
11.352	11.359	(1.000)	236	424104			0.00- 57.06	26.81	

126 7,12-Dimethylbenz(a)anthracen CAS #: 57-97-6									
12.316	12.088	(0.971)	256	200373	10.0000	8.8	70.00- 130.00	100.00	
12.316	12.088	(0.971)	241	109815			77.87- 137.87	54.81	
12.315	12.088	(0.971)	239	90701			73.24- 133.24	45.27	

* 130 Perylene-d12 CAS #: 1520-96-3									
12.679	12.682	(1.000)	264	1592011	40.0000		80.00- 120.00	100.00	
12.679	12.682	(1.000)	260	393071			0.00- 54.80	24.69	
12.679	12.682	(1.000)	265	363478			0.00- 53.39	22.83	

131 3-Methylcholanthrene CAS #: 56-49-5									
12.938	12.847	(1.020)	268	230708	10.0000	9.0	70.00- 130.00	100.00	
12.938	12.847	(1.020)	252	97238			13.23- 73.23	42.15	
12.938	12.847	(1.020)	253	86091			6.61- 66.61	37.32	

132 Dibenz(a,j)acridine CAS #: 224-42-0									
13.529	13.755	(1.067)	279	346541	10.0000	9.4	70.00- 130.00	100.00	
13.529	13.755	(1.067)	280	82380			0.00- 41.79	23.77	
13.528	13.755	(1.067)	277	52335			93.47- 153.47	15.10	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
 M - Compound response manually integrated.

Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

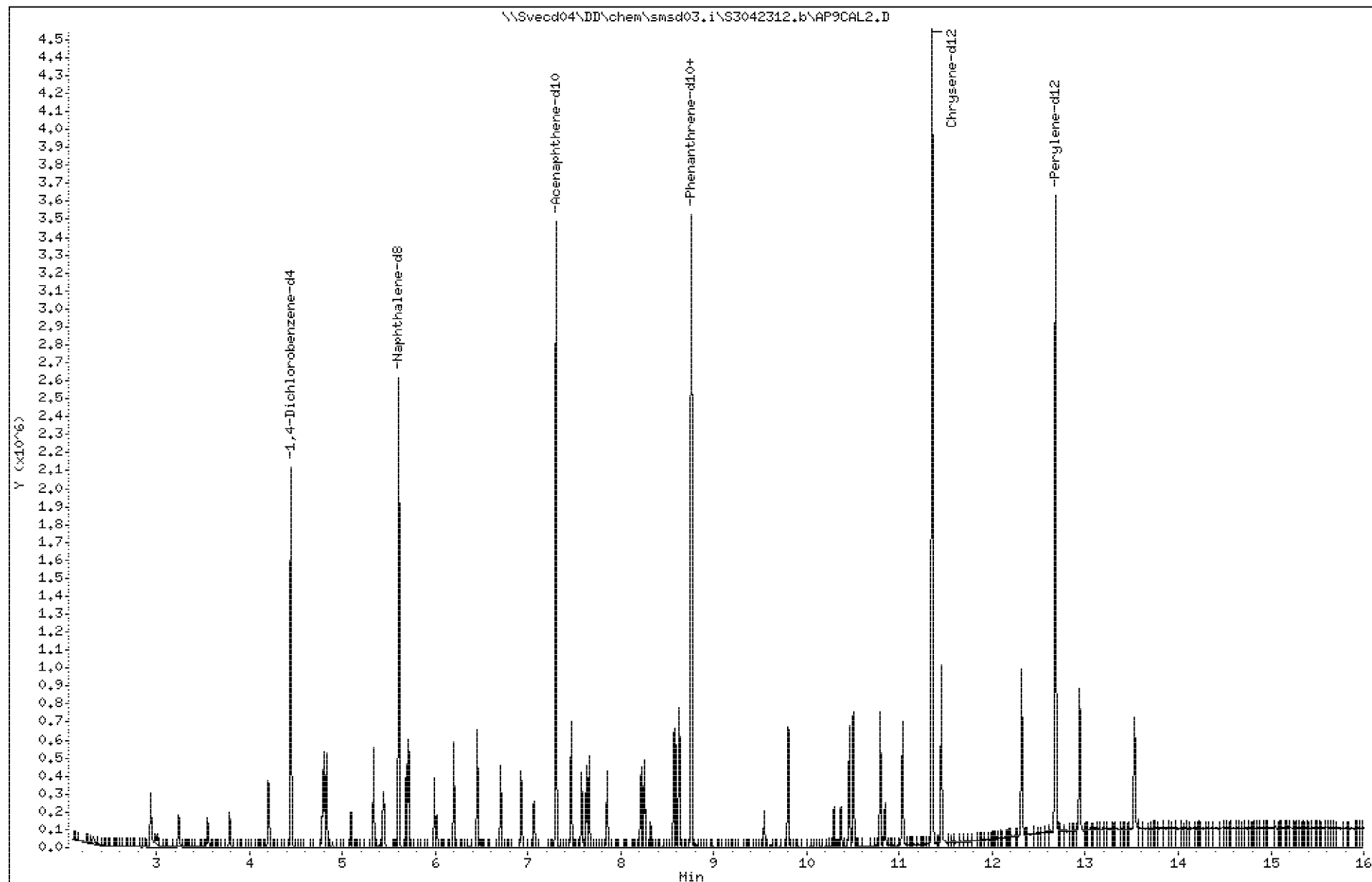
Sample Info: 45960

Operator: MJ

Purge Volume: 1000.0

Column diameter: 0.25

Column phase: HPMS-5



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

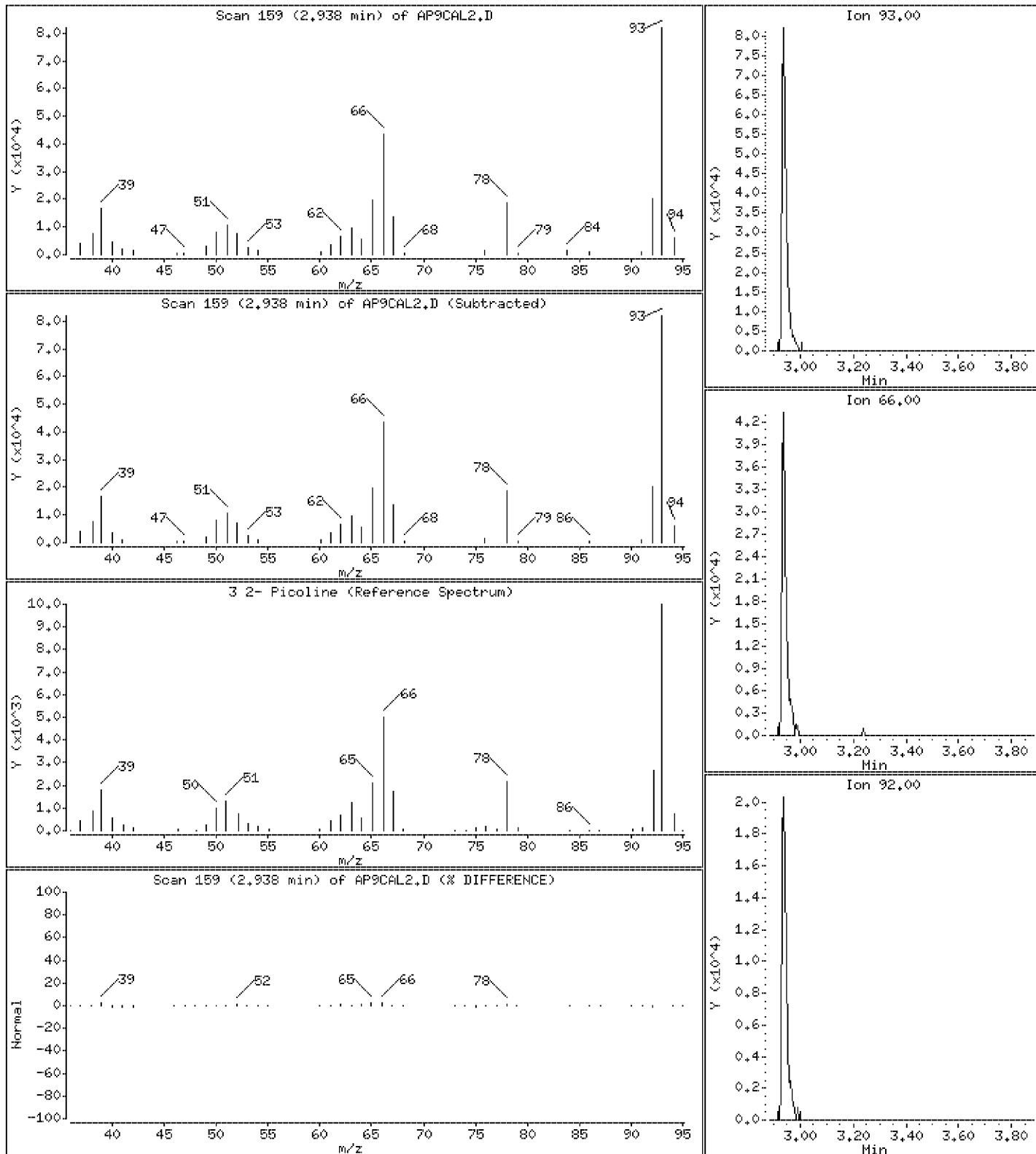
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

3 2- Picoline

Concentration: 9.1 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

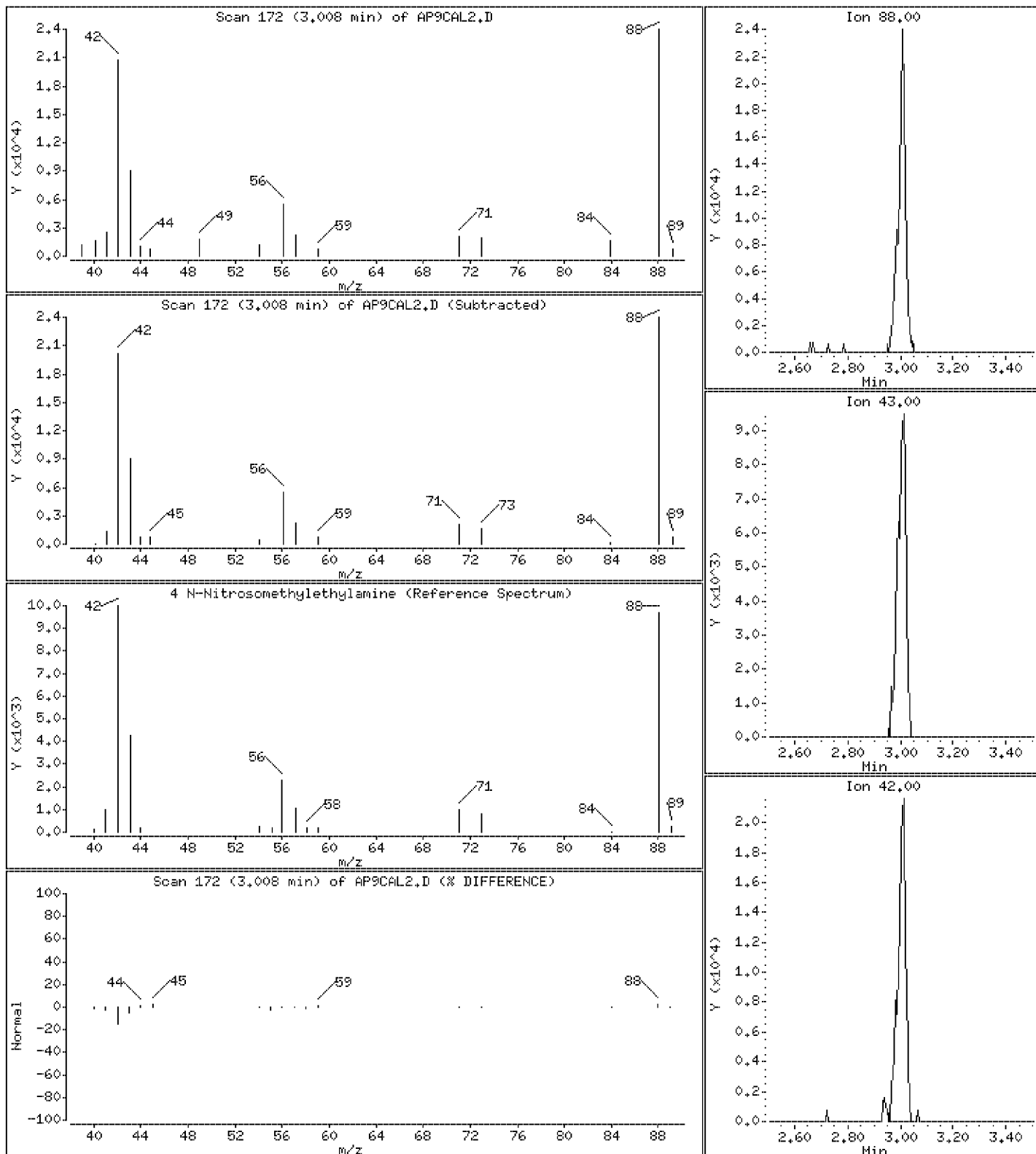
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

4 N-Nitrosomethylethylamine

Concentration: 9.5 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

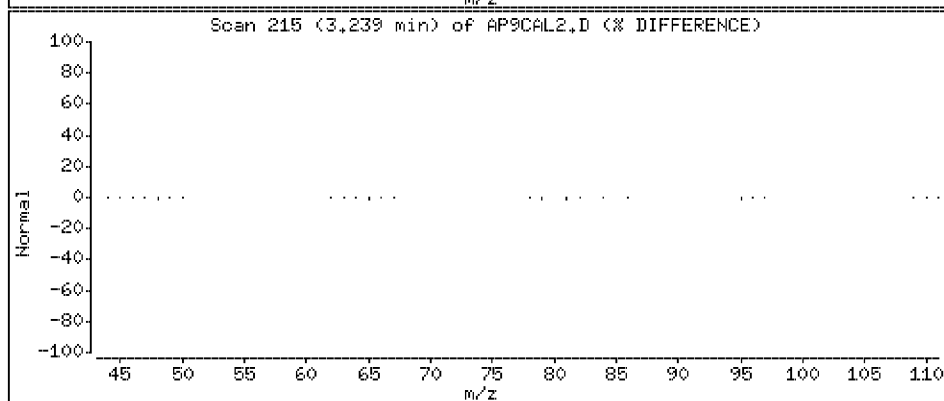
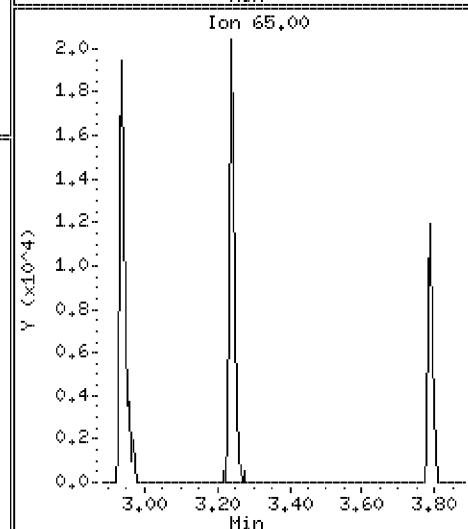
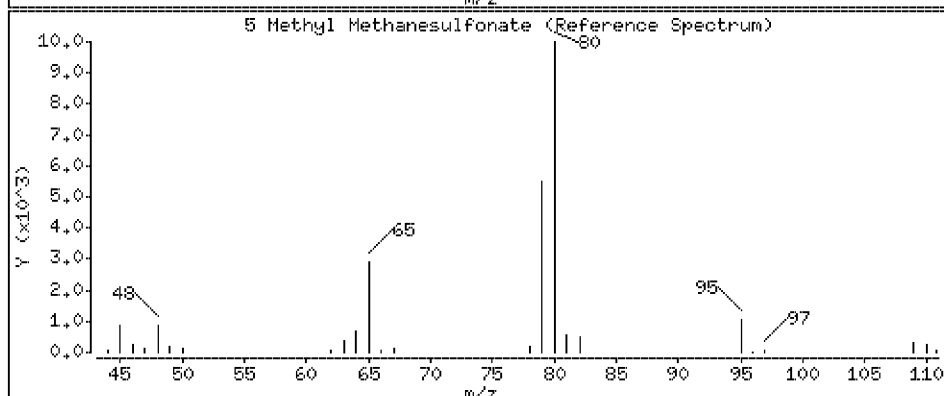
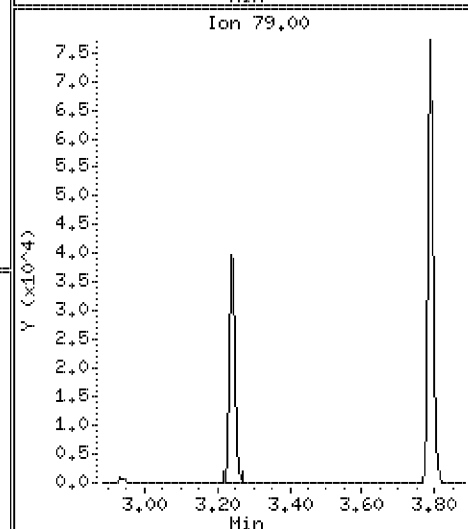
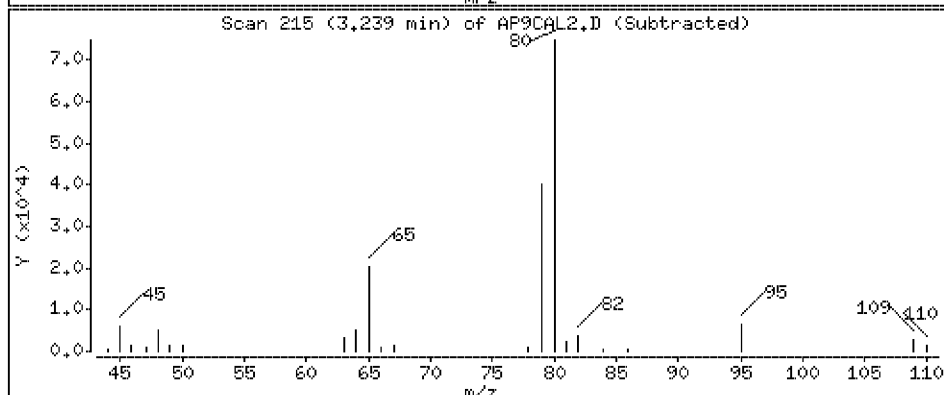
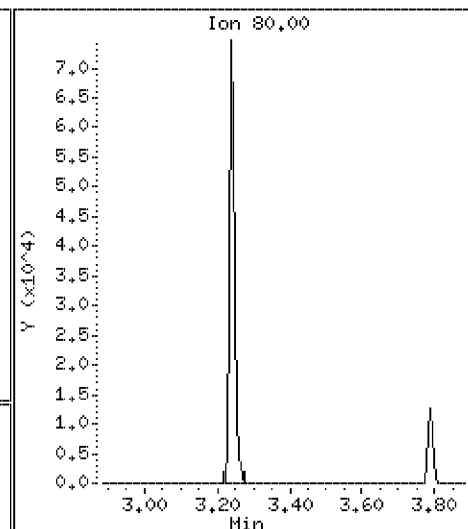
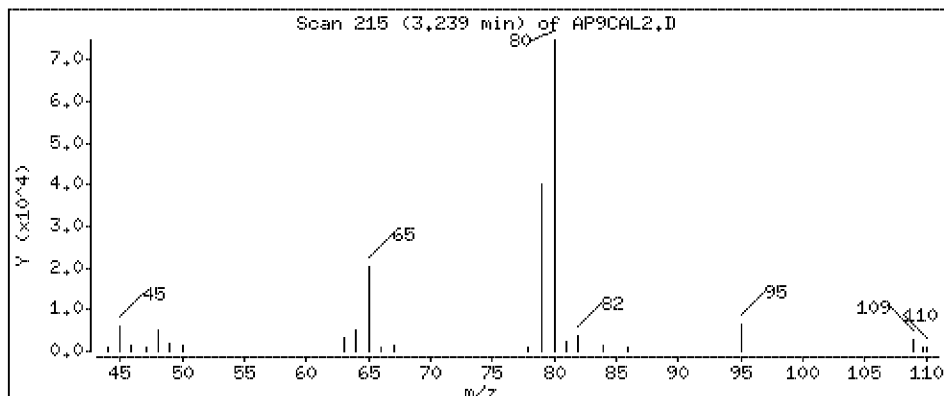
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

5 Methyl Methanesulfonate

Concentration: 9.6 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

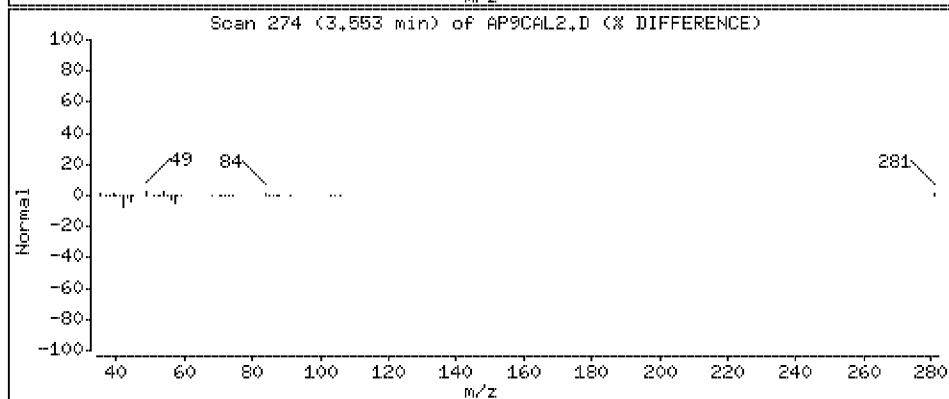
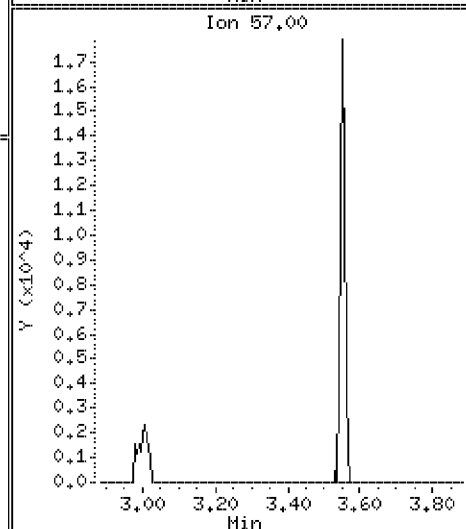
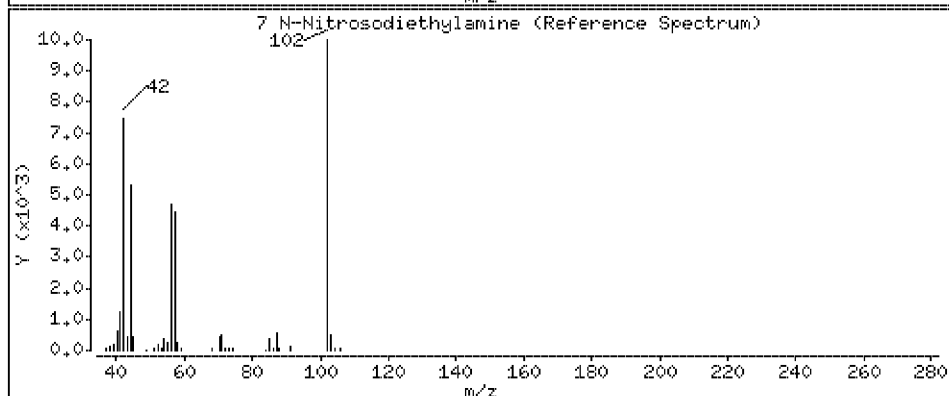
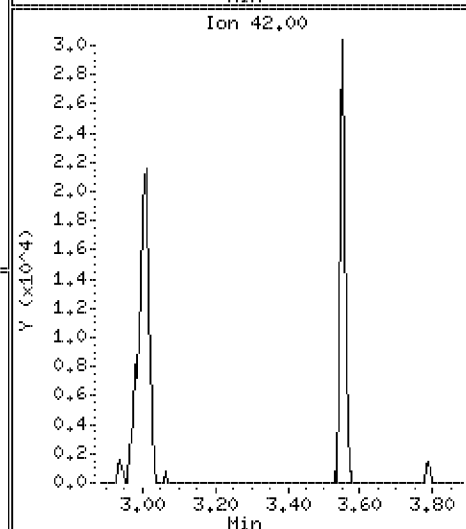
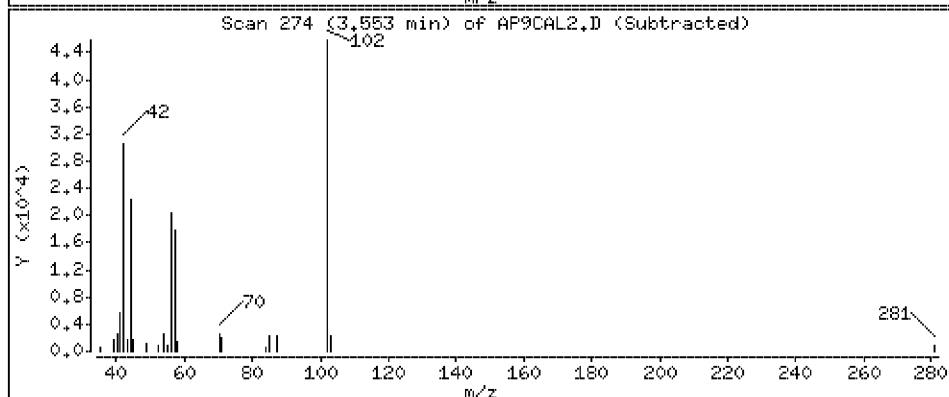
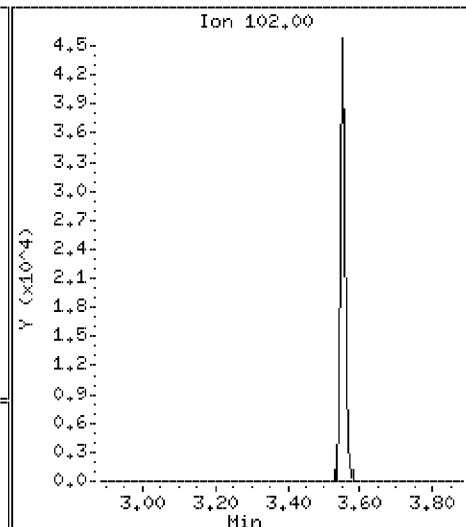
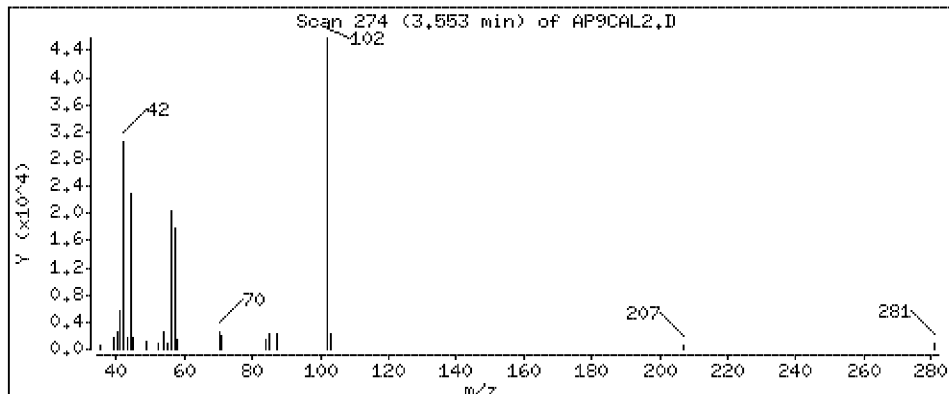
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

7 N-Nitrosodiethylamine

Concentration: 9.4 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

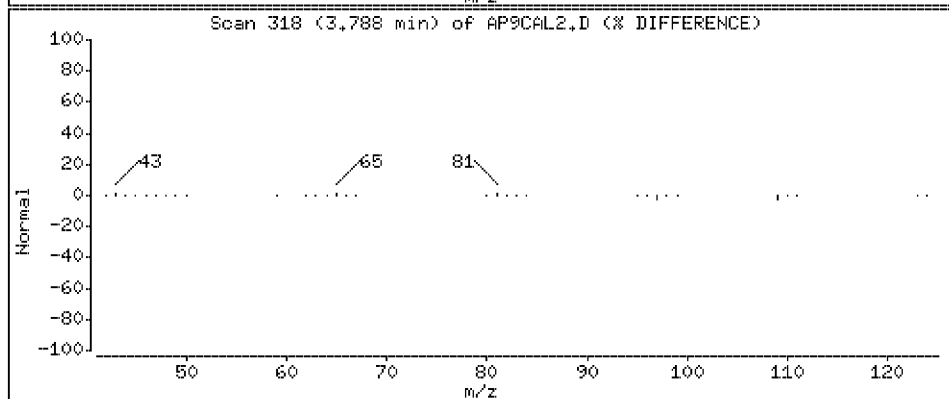
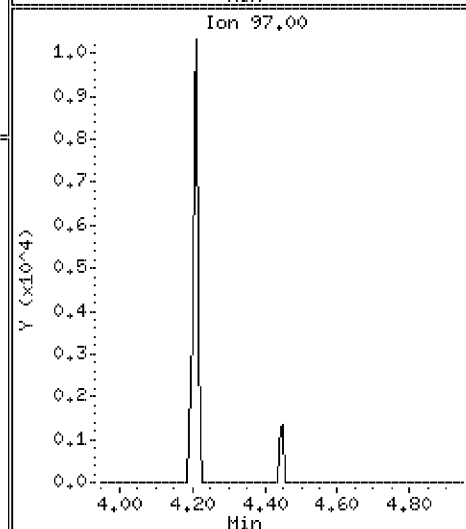
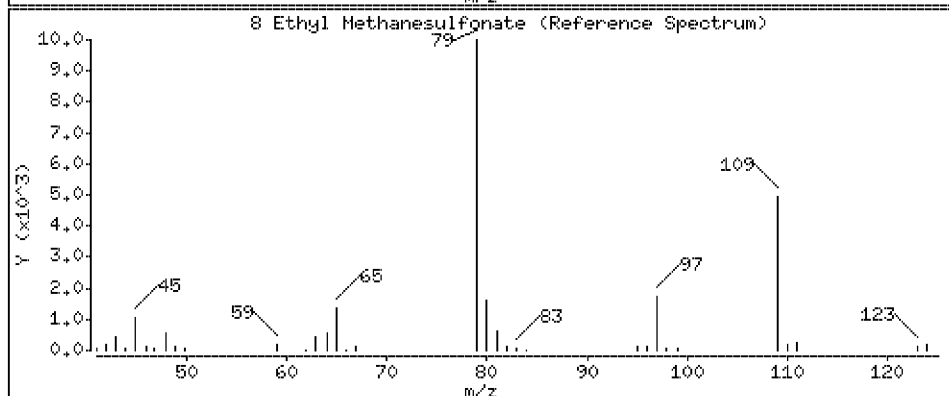
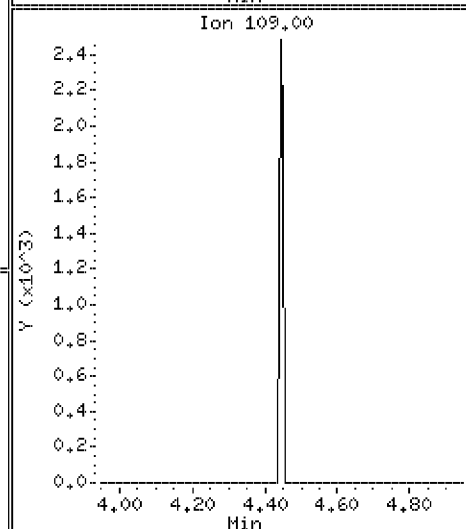
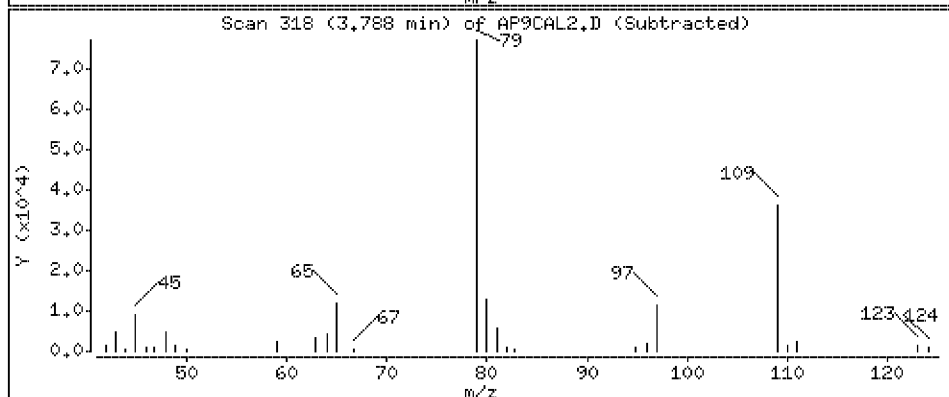
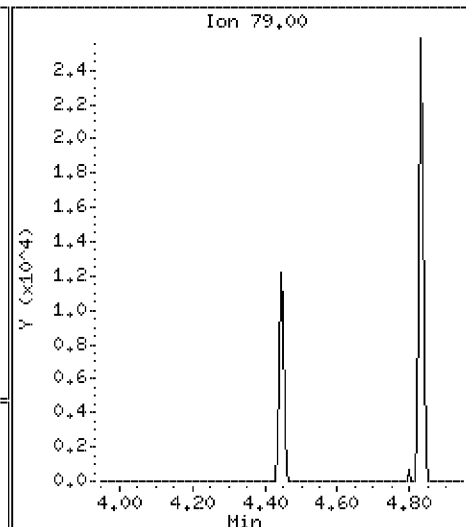
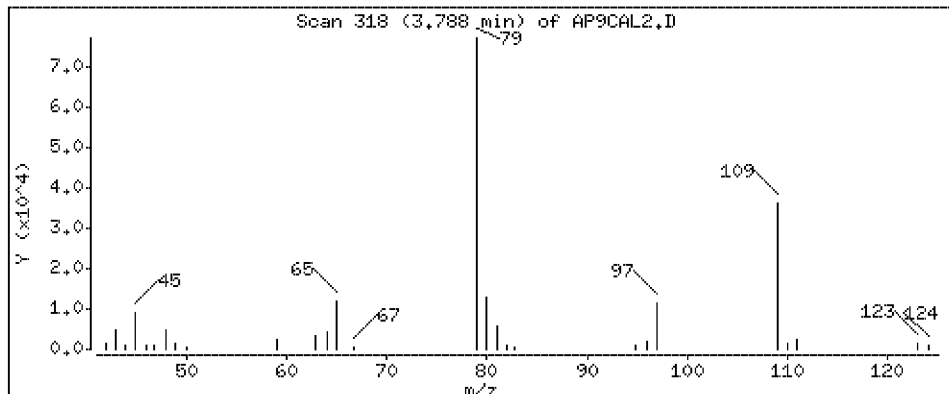
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

8 Ethyl Methanesulfonate

Concentration: 9.7 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

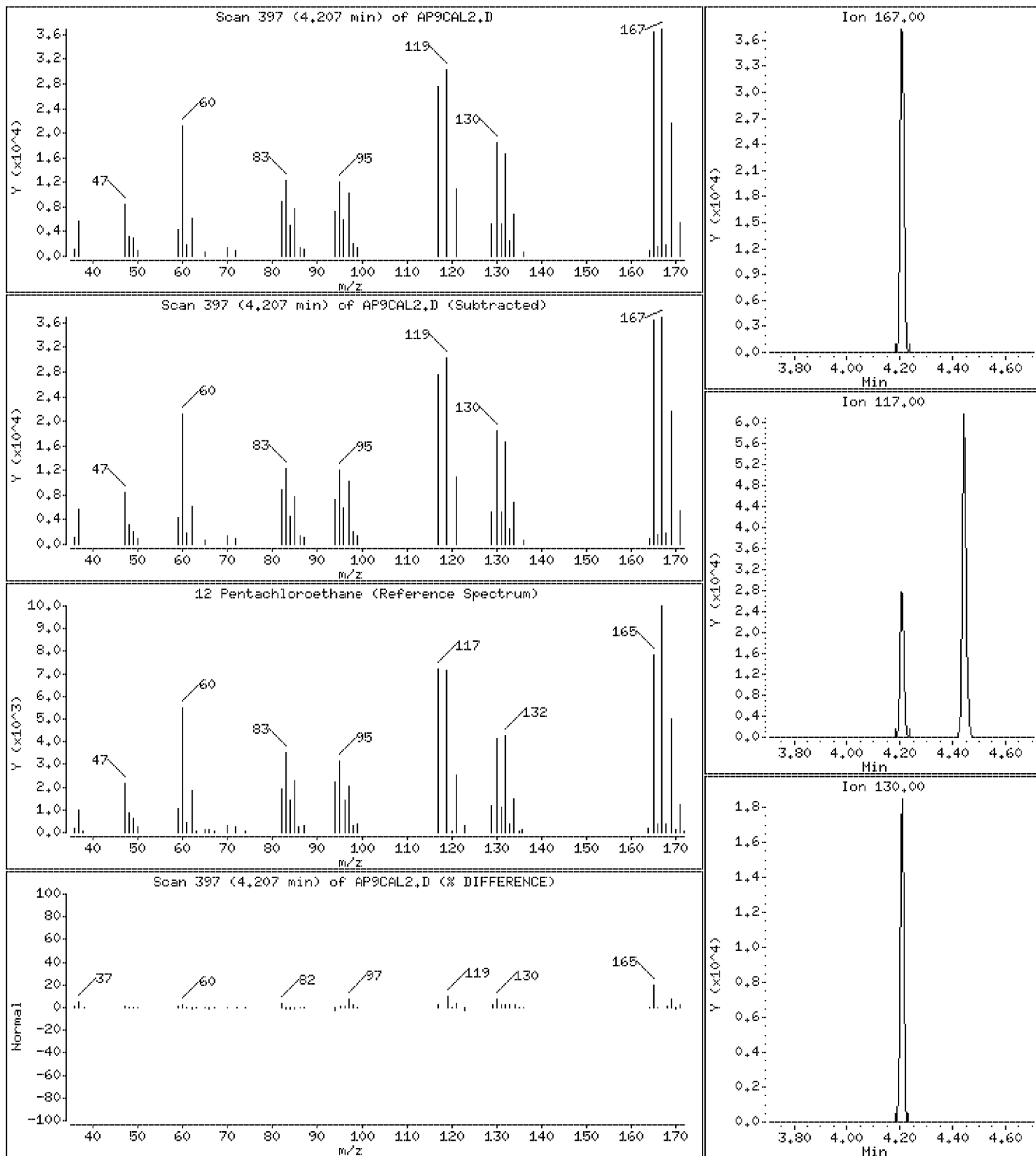
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

12 Pentachloroethane

Concentration: 8.9 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

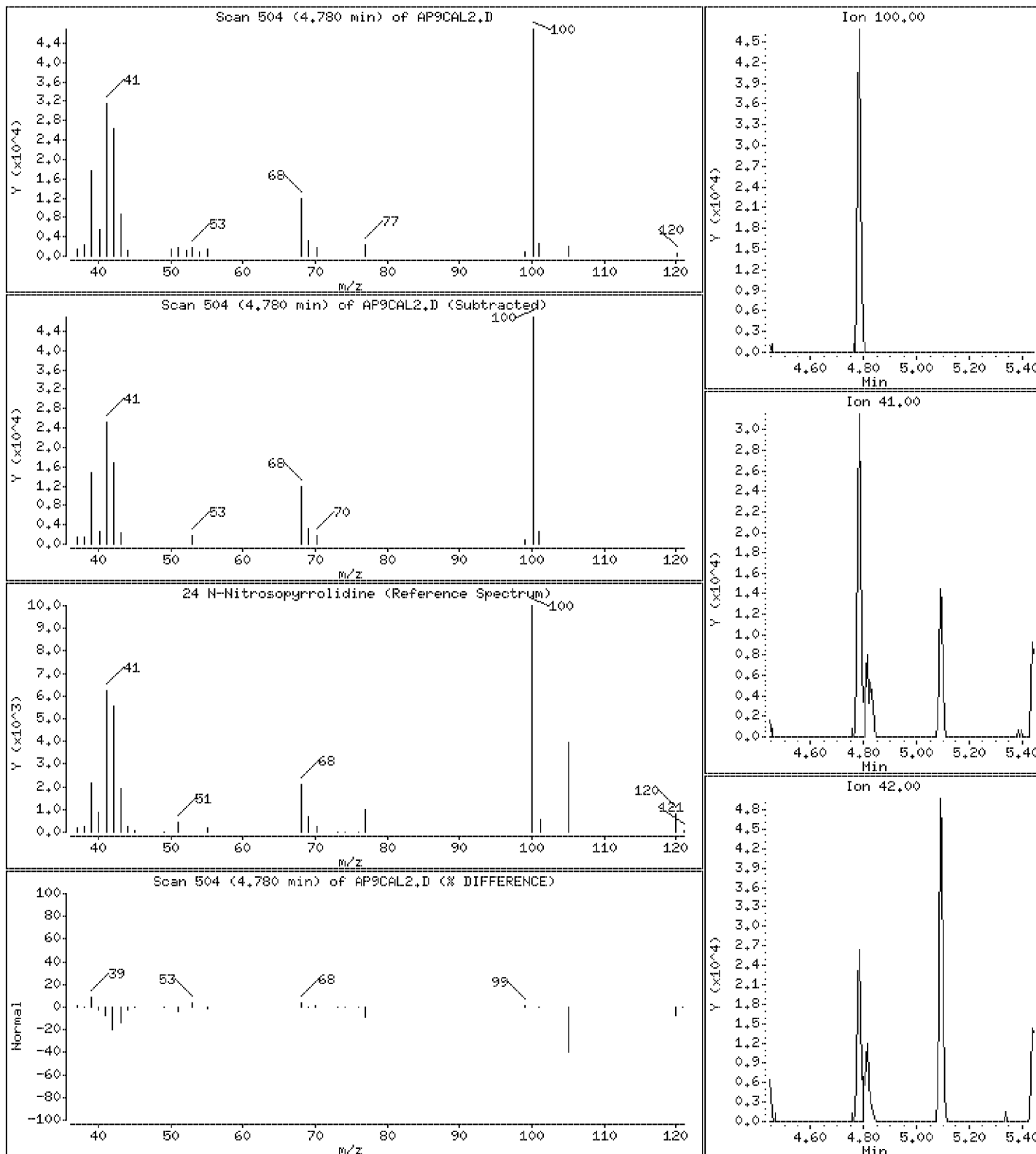
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

24 N-Nitrosopyrrolidine

Concentration: 8.9 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

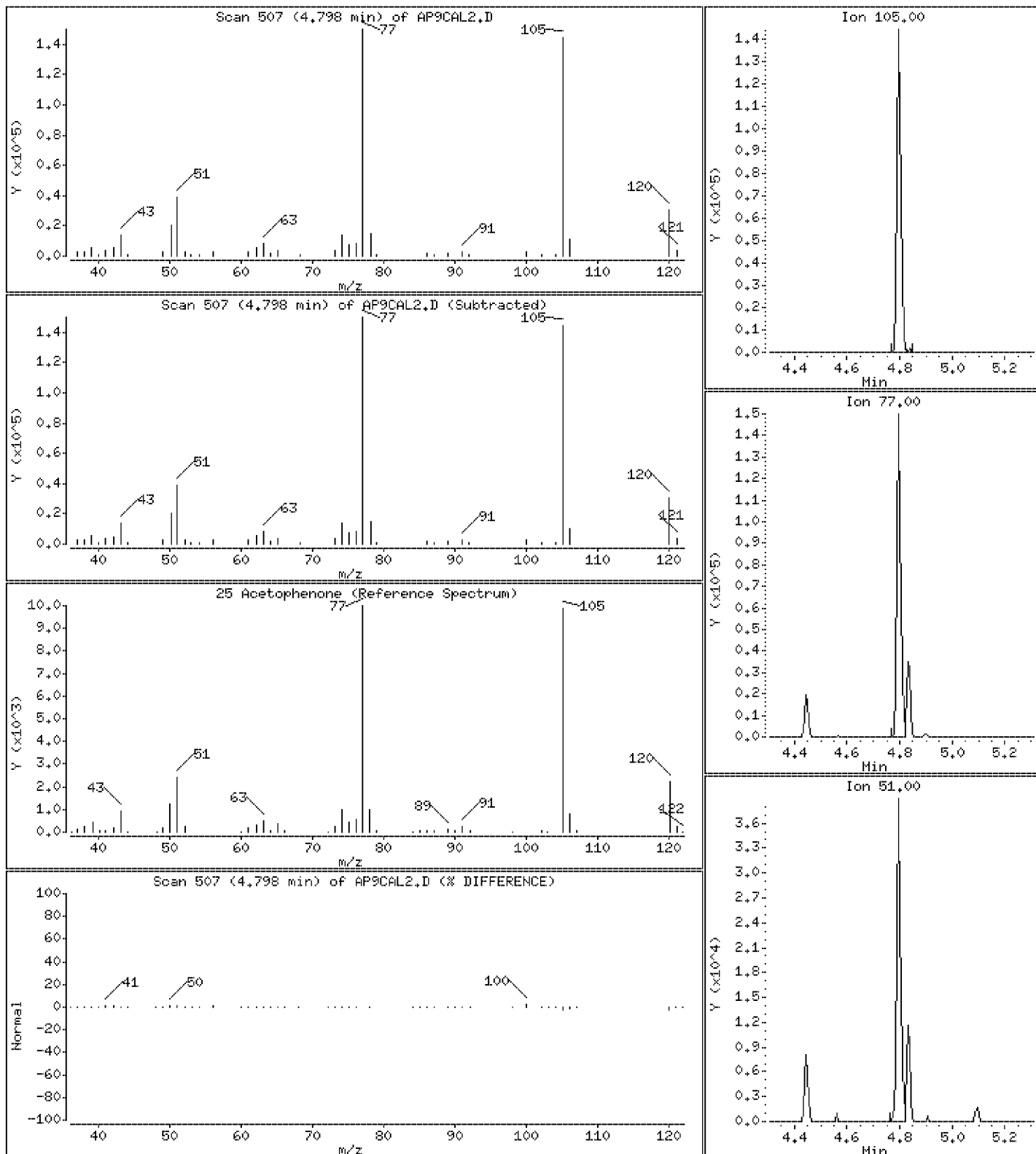
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

25 Acetophenone

Concentration: 9.6 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

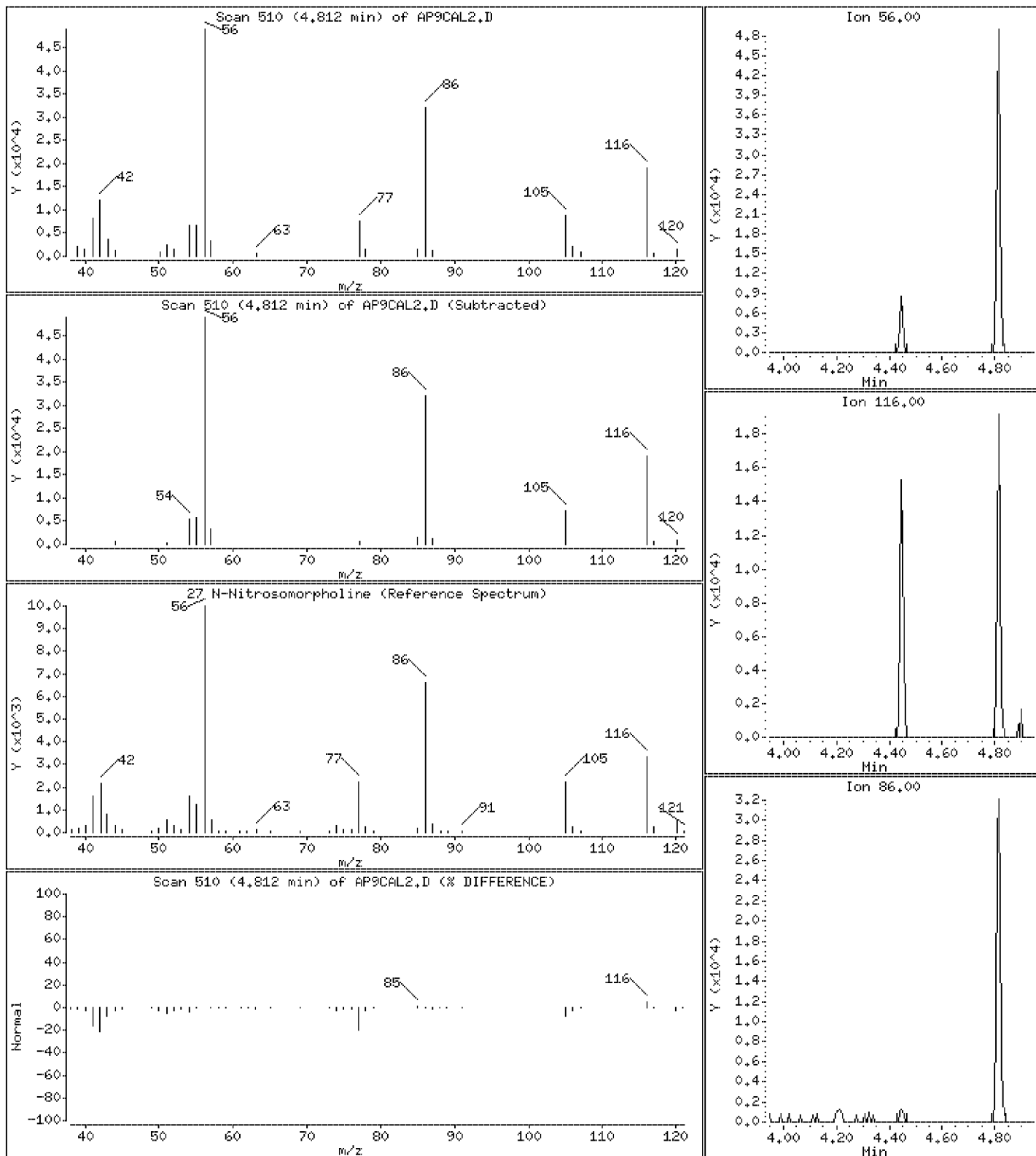
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

27 N-Nitrosomorpholine

Concentration: 9.0 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

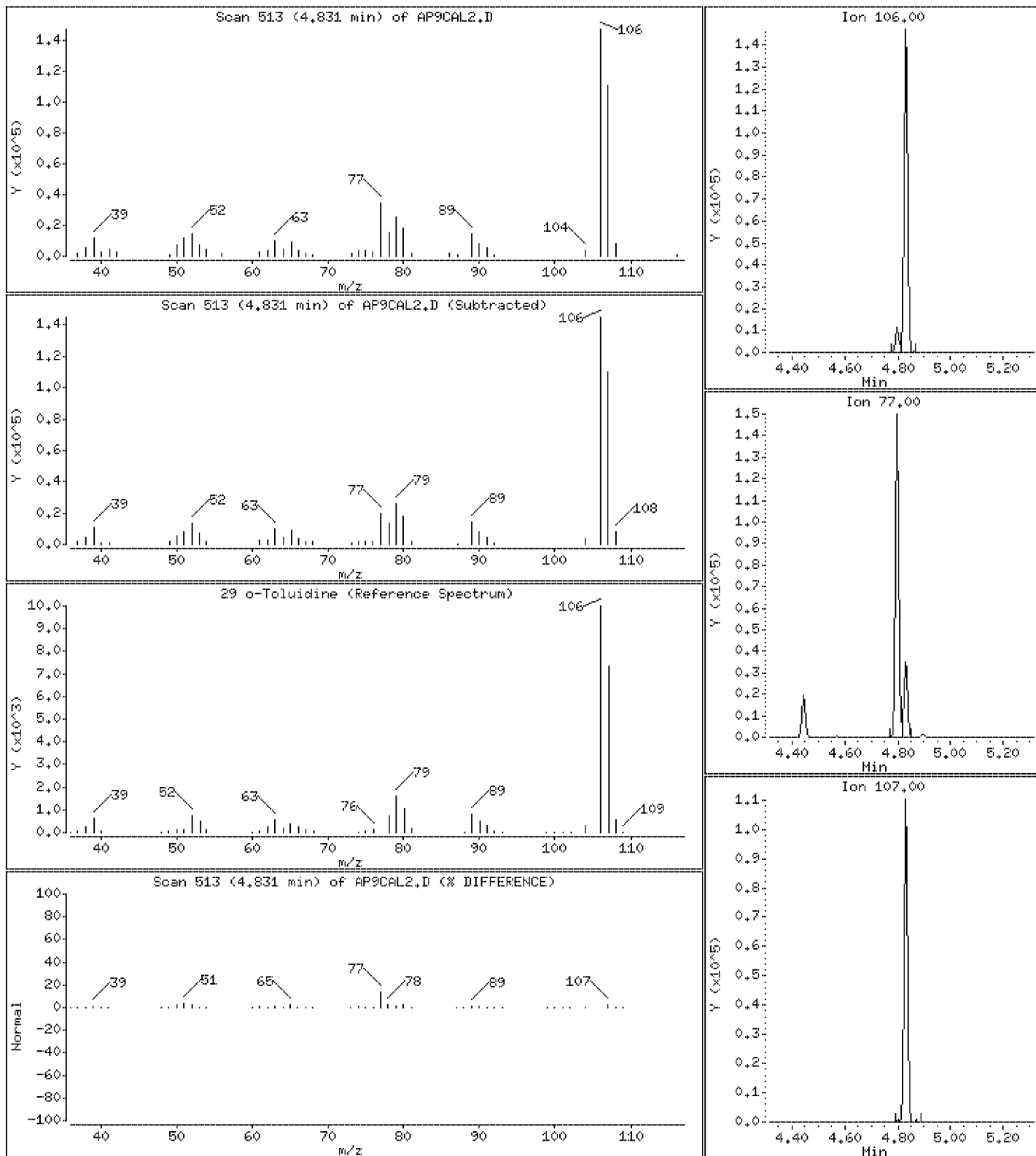
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

29 o-Toluidine

Concentration: 9.0 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

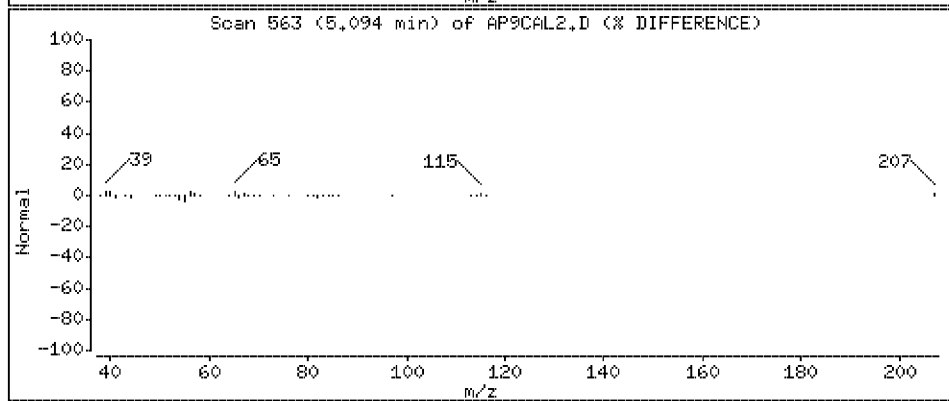
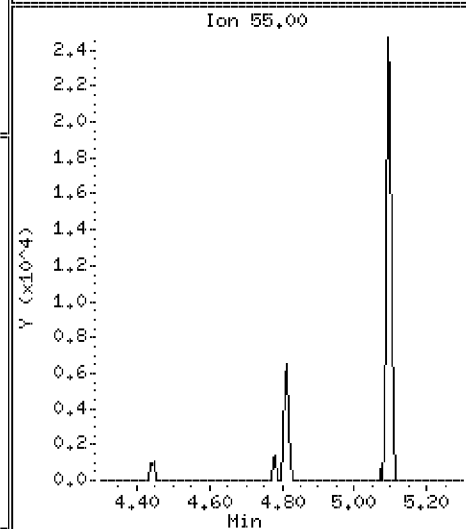
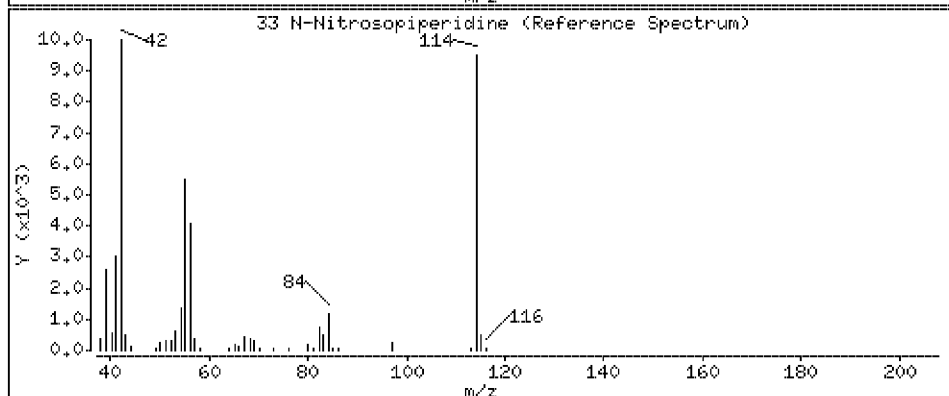
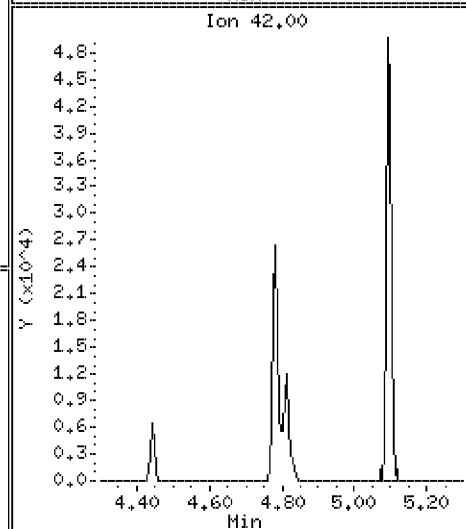
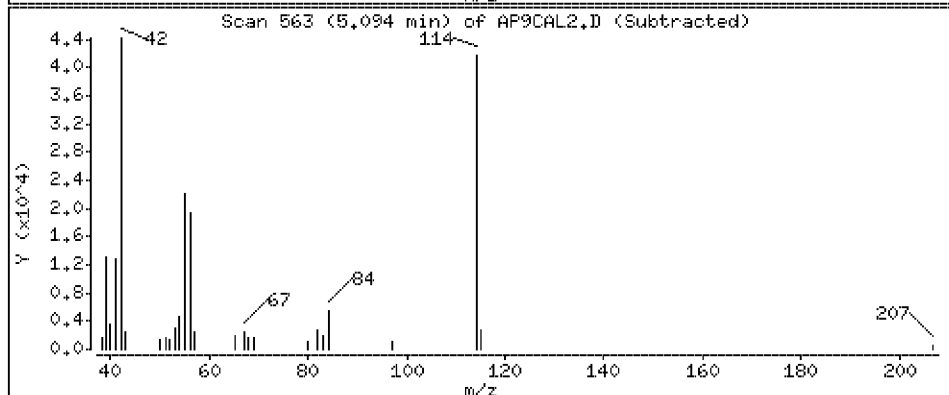
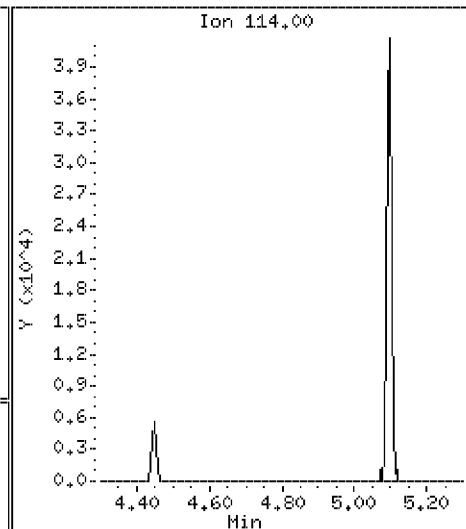
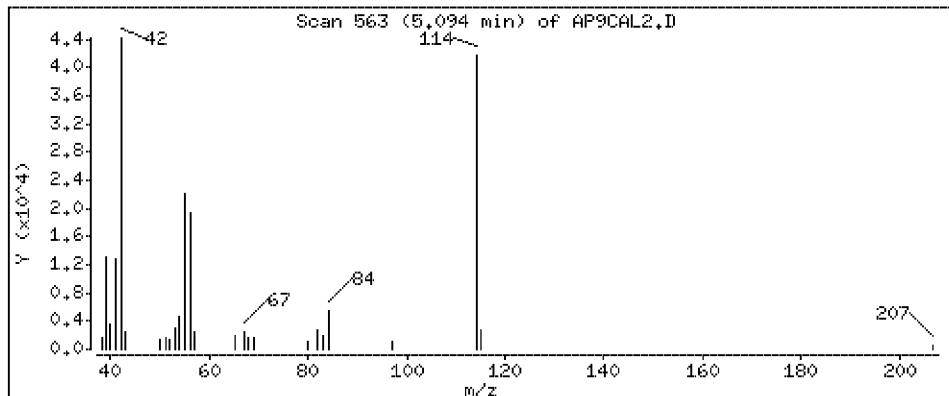
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

33 N-Nitrosopiperidine

Concentration: 9.4 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

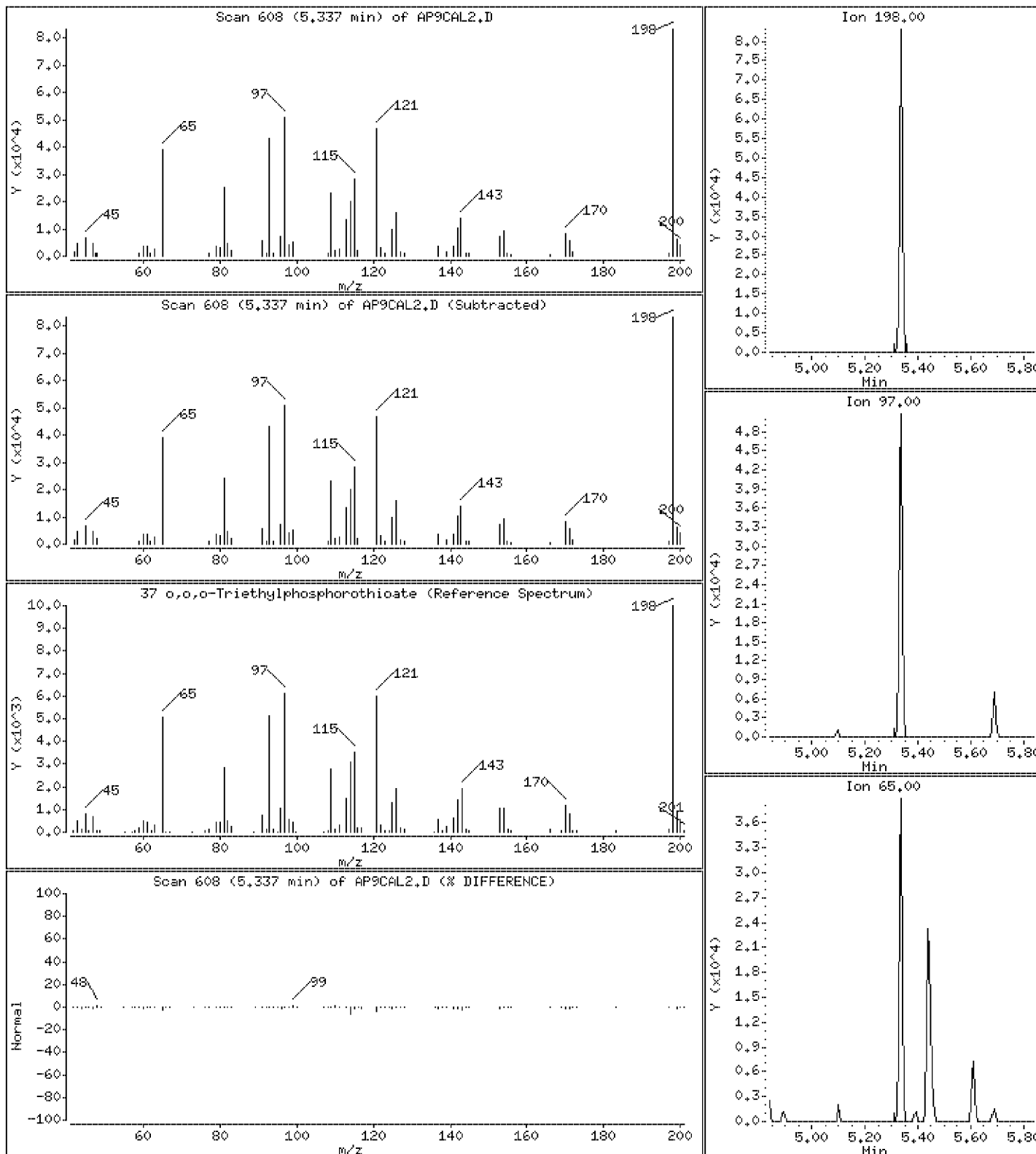
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

37 o,o,o-Triethylphosphorothioate

Concentration: 8.8 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

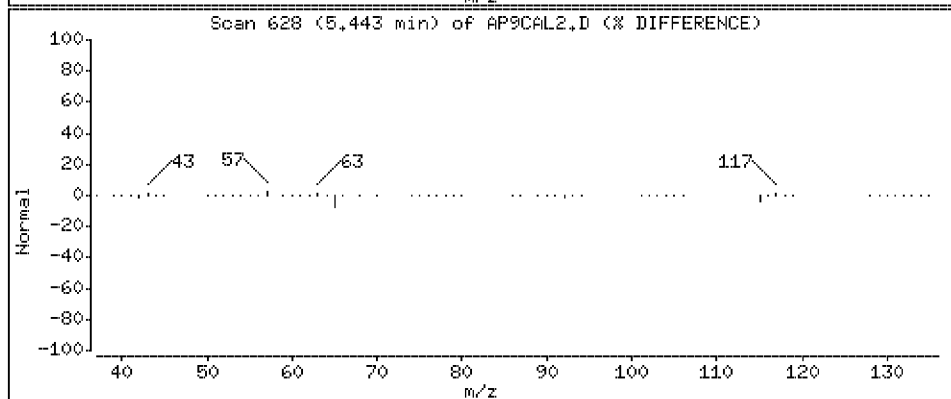
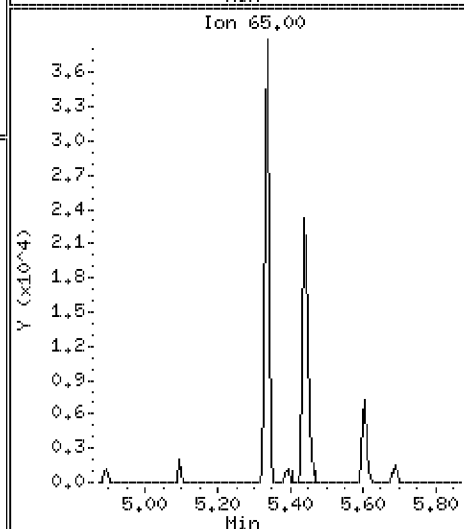
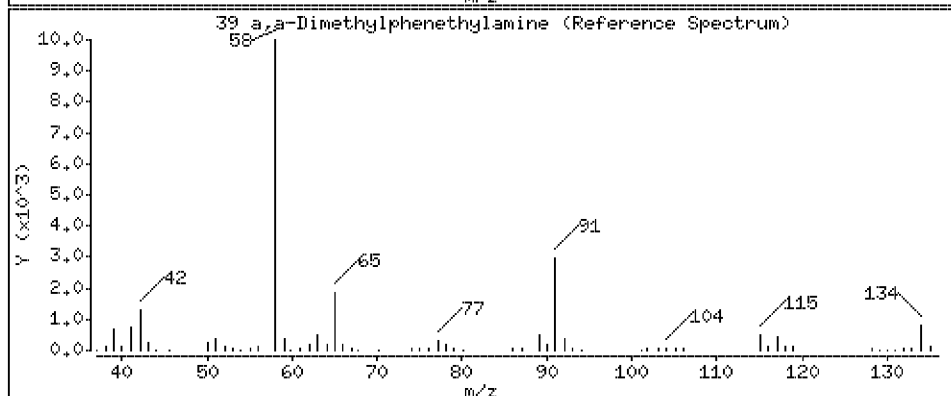
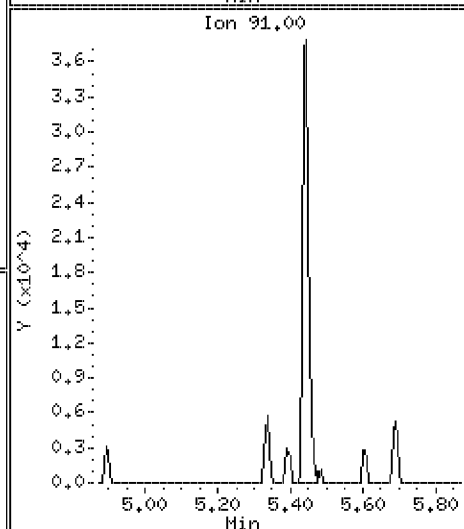
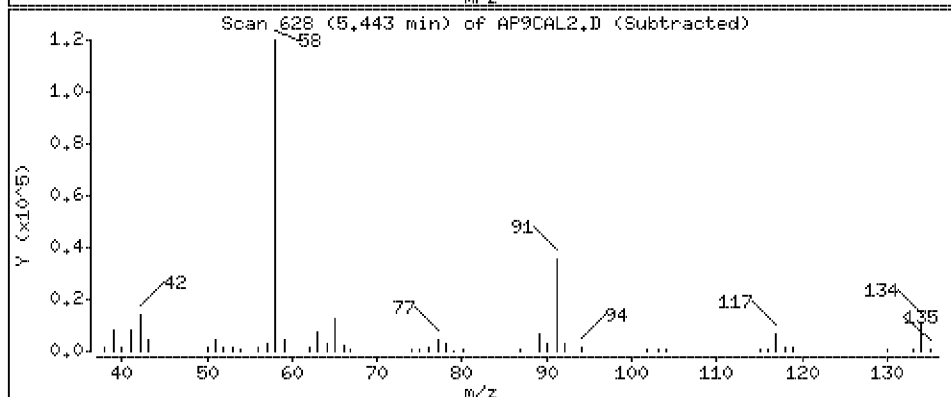
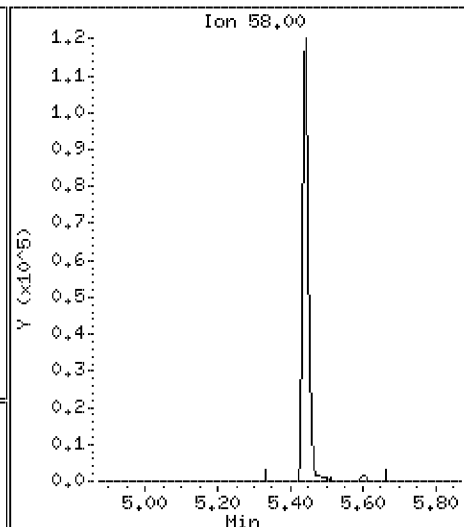
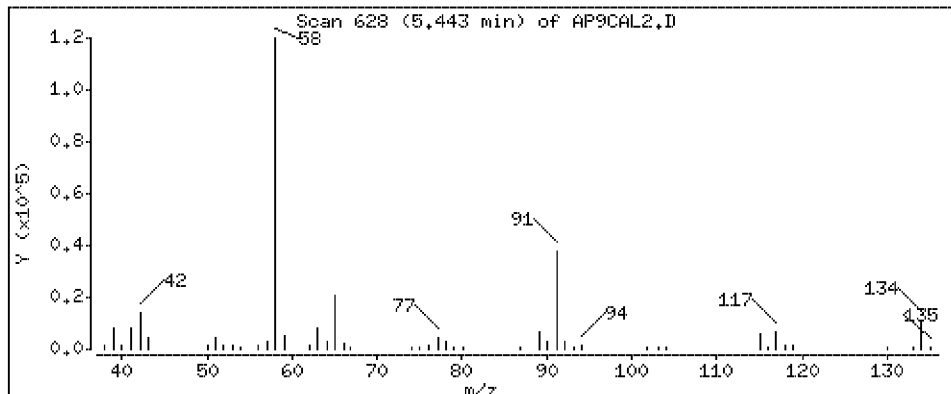
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

39 a,a-Dimethylphenethylamine

Concentration: 9.4 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

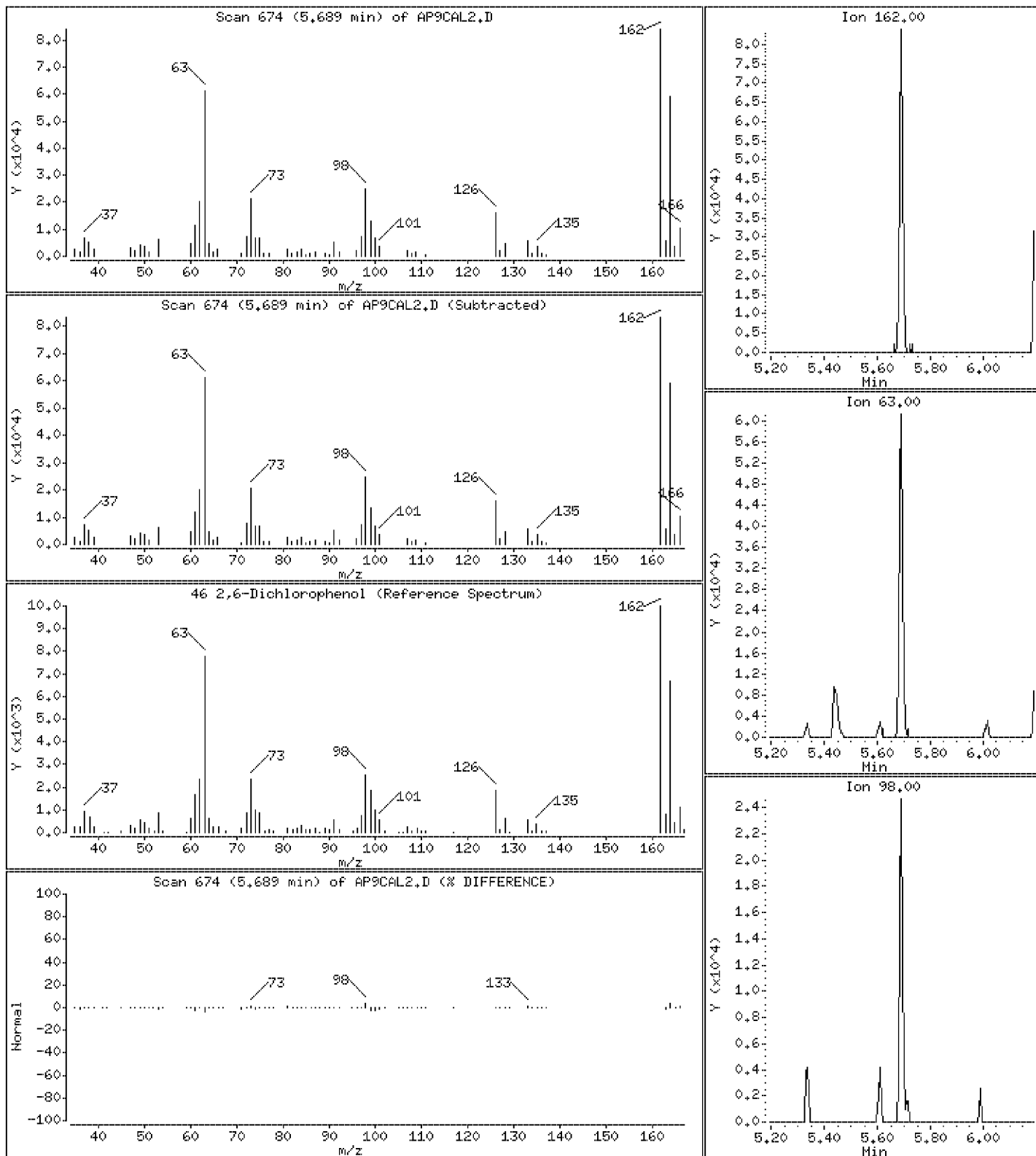
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

46 2,6-Dichlorophenol

Concentration: 8.9 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

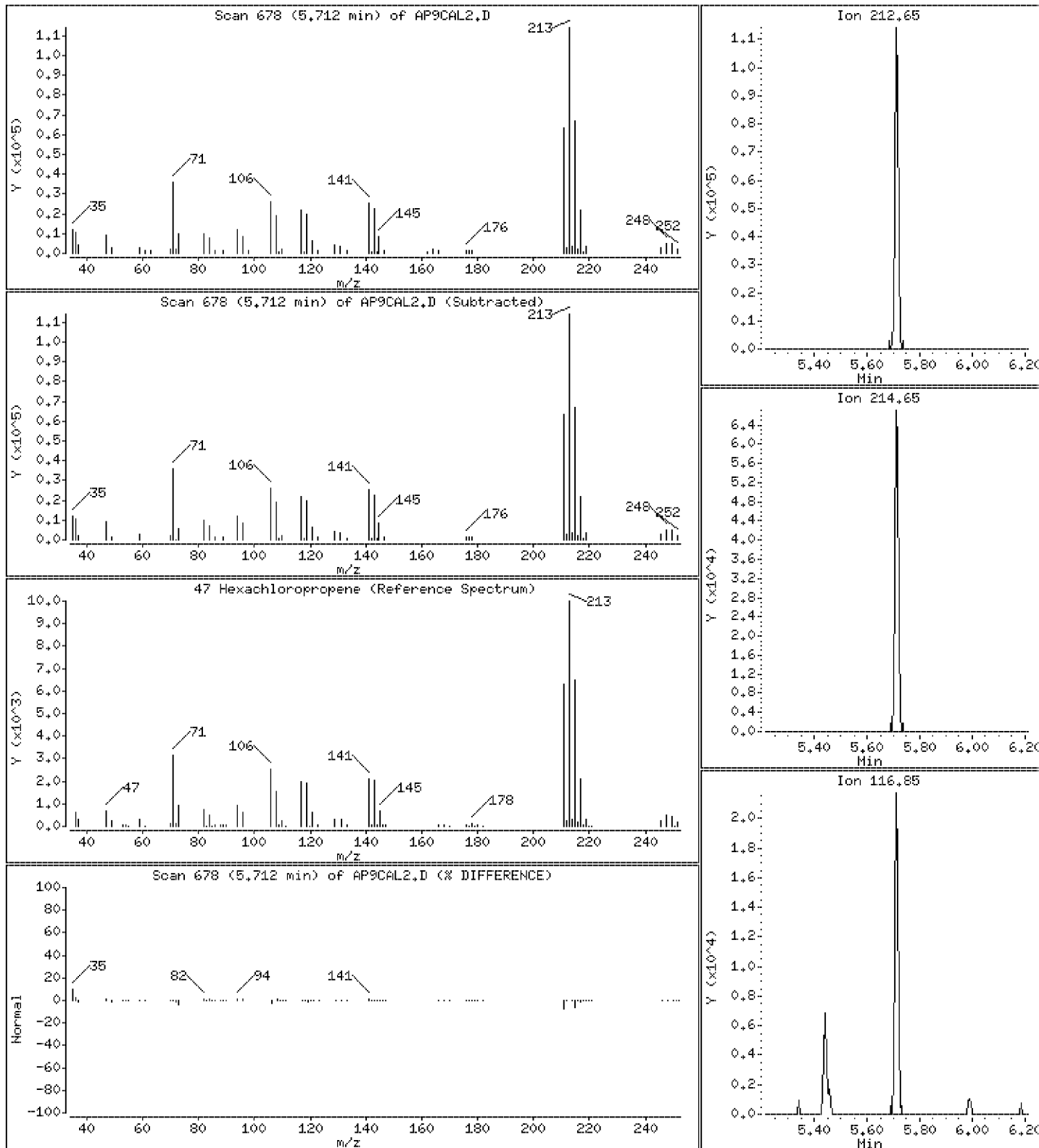
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

47 Hexachloropropene

Concentration: 9.5 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

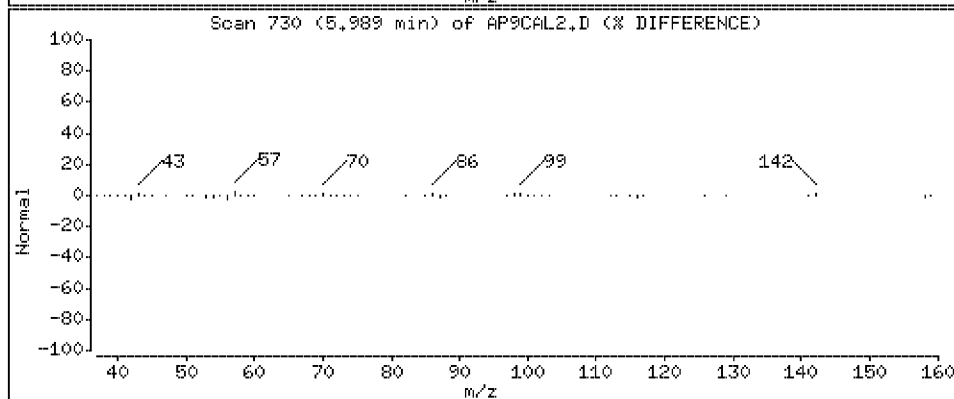
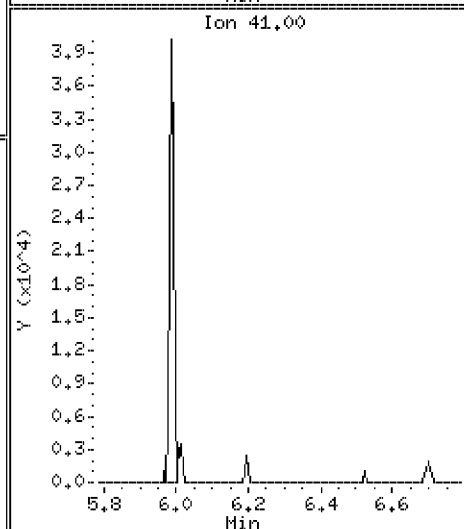
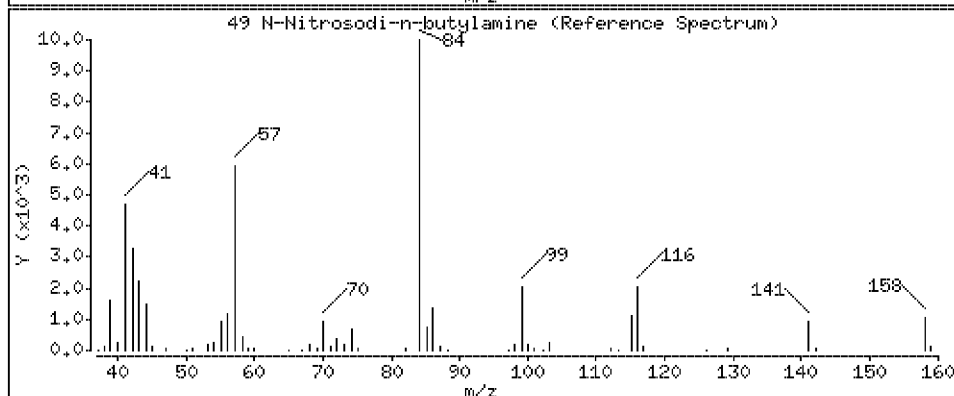
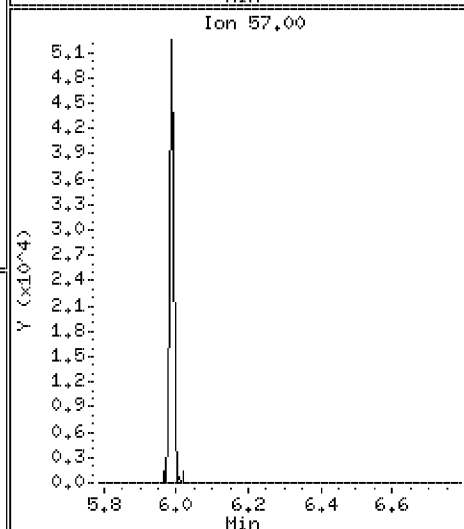
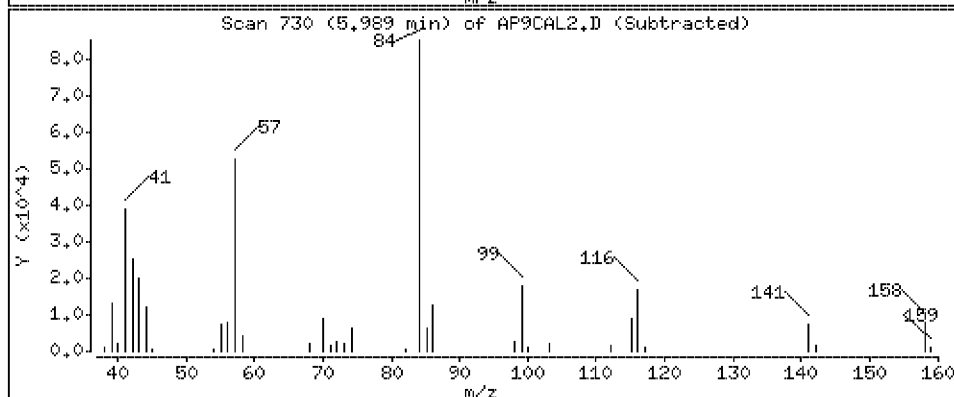
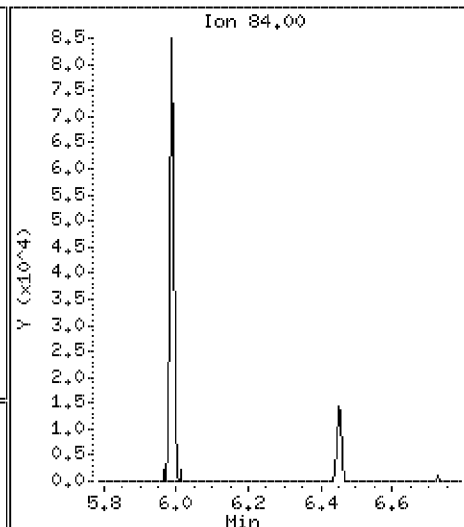
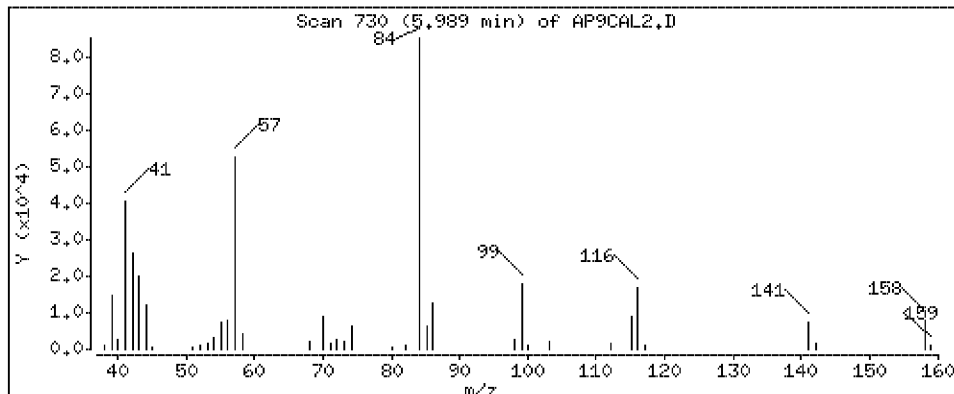
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

49 N-Nitrosodi-n-butylamine

Concentration: 8.6 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

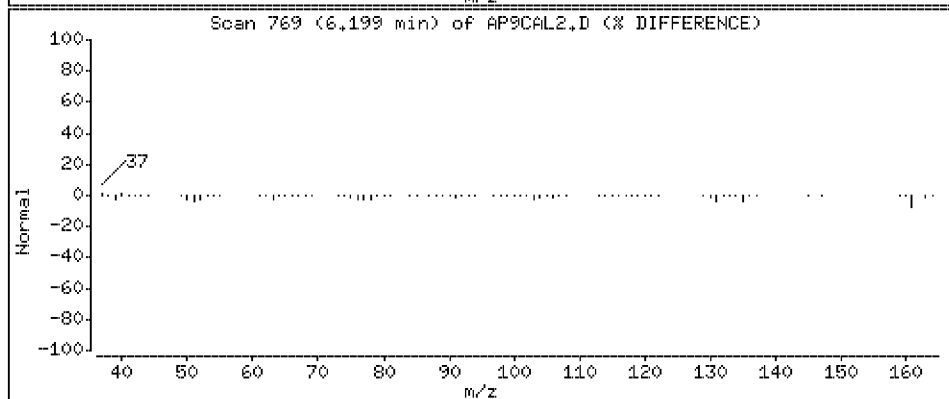
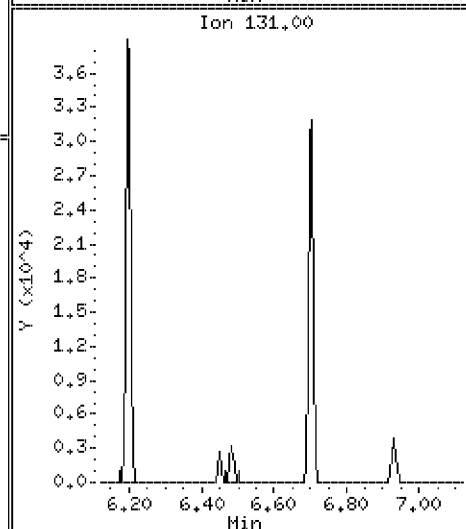
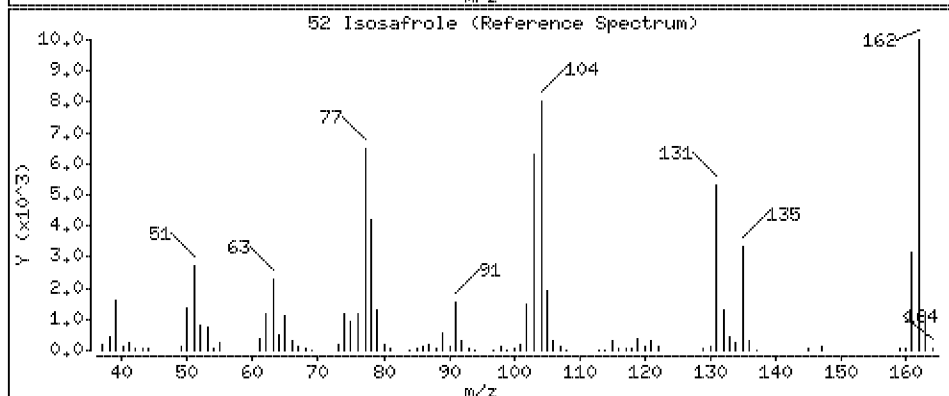
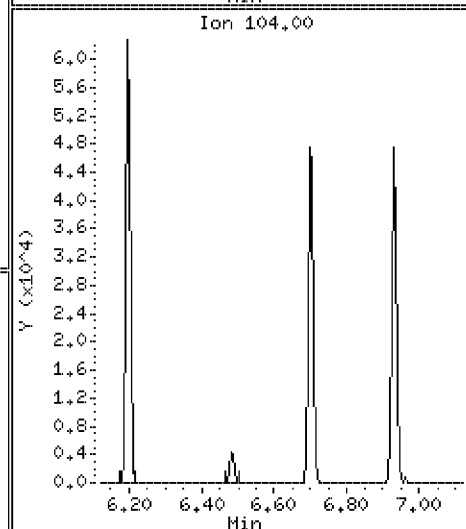
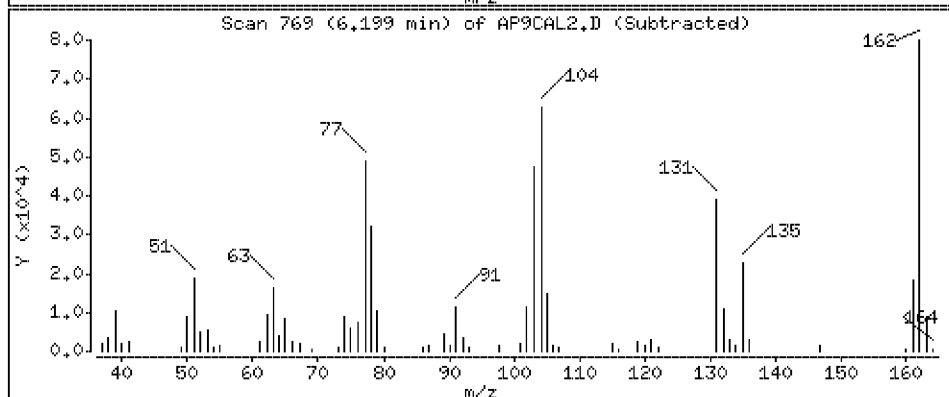
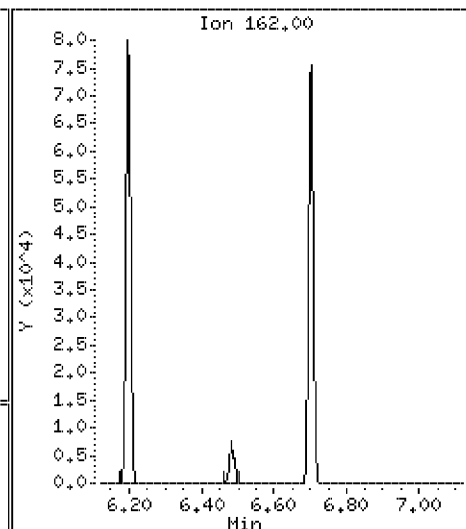
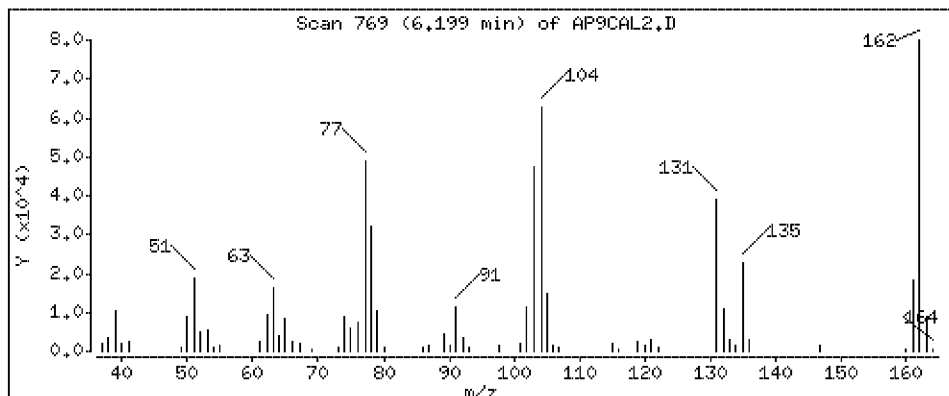
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

52 Isosafrole

Concentration: 9.4 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

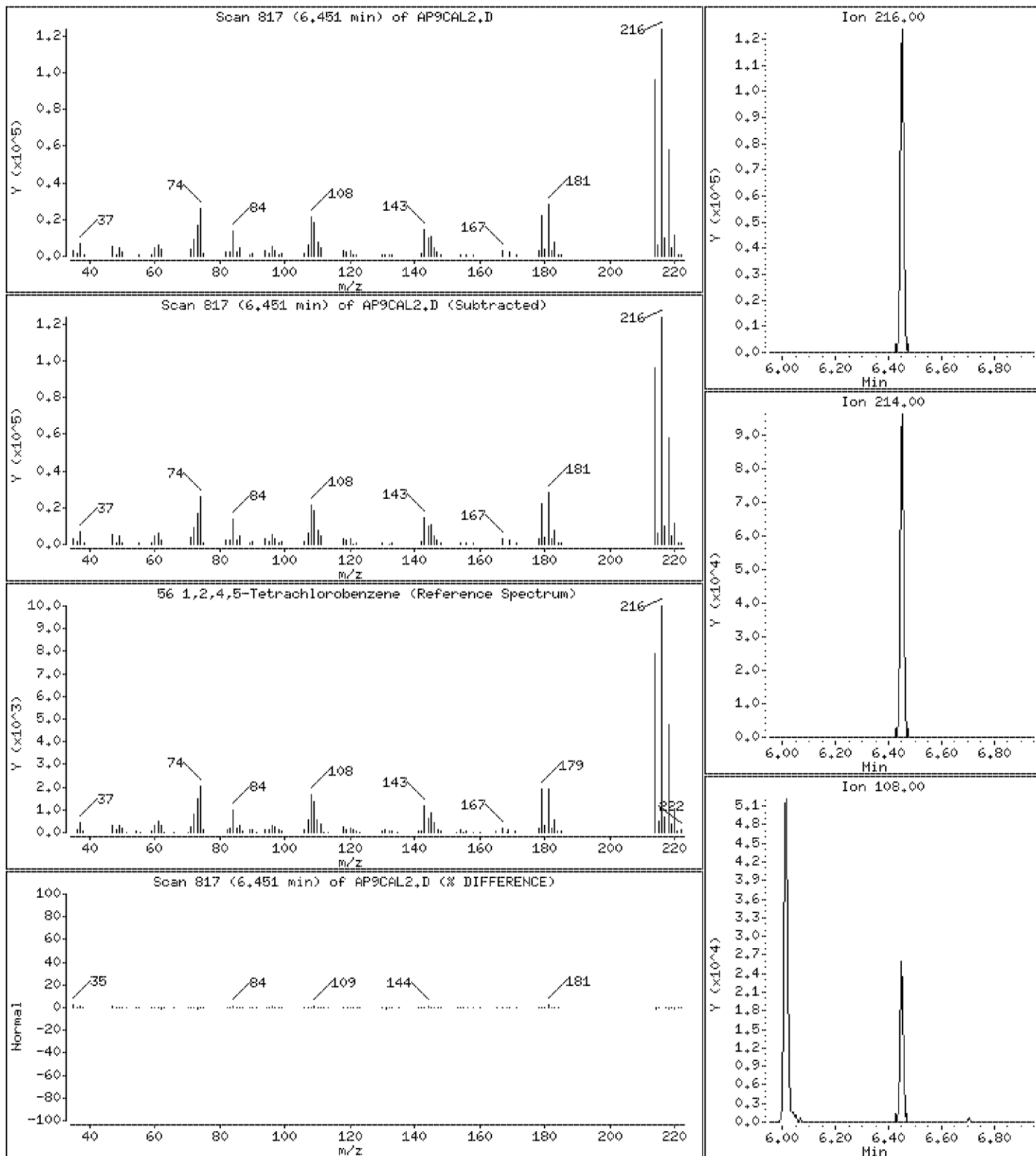
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

56 1,2,4,5-Tetrachlorobenzene

Concentration: 9.0 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

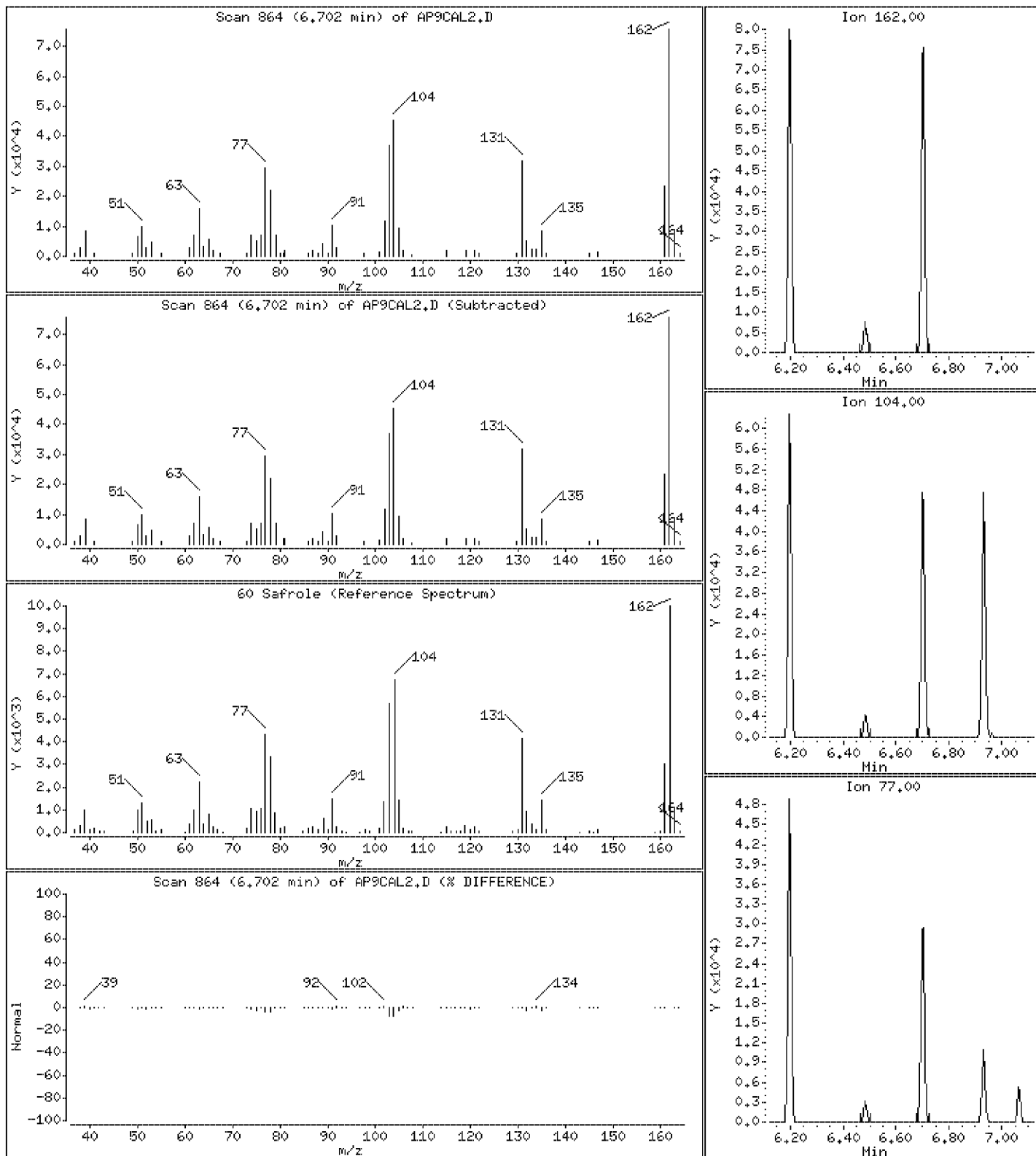
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

60 Safrole

Concentration: 9.6 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

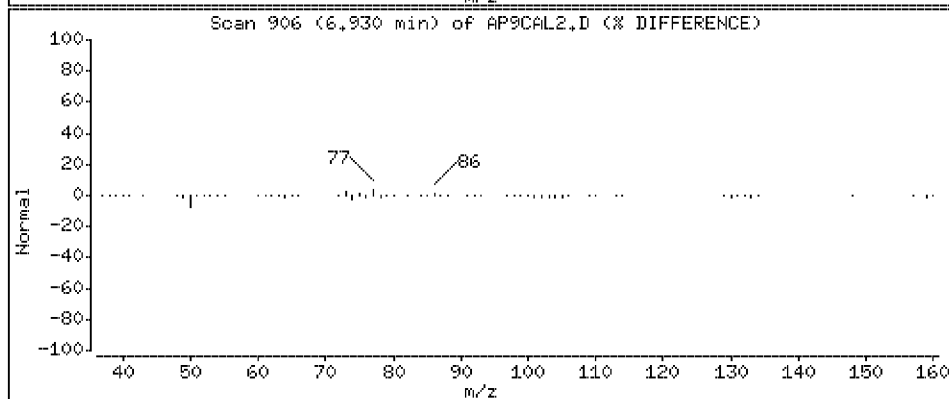
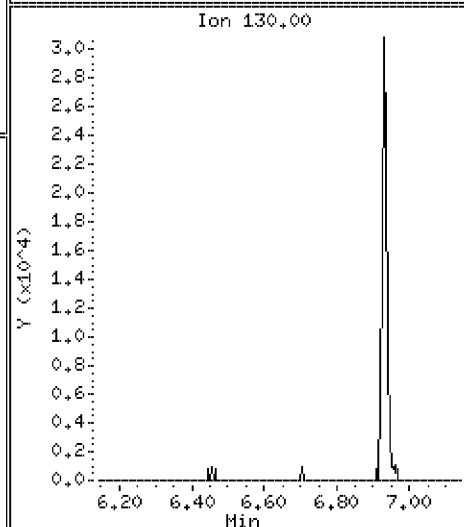
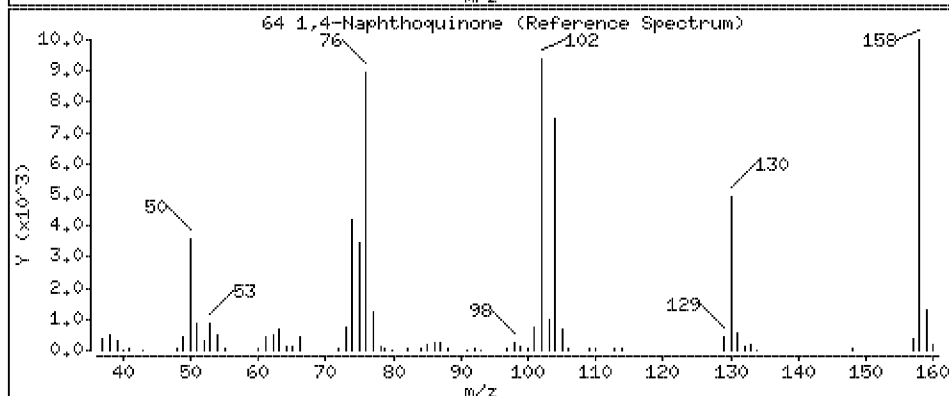
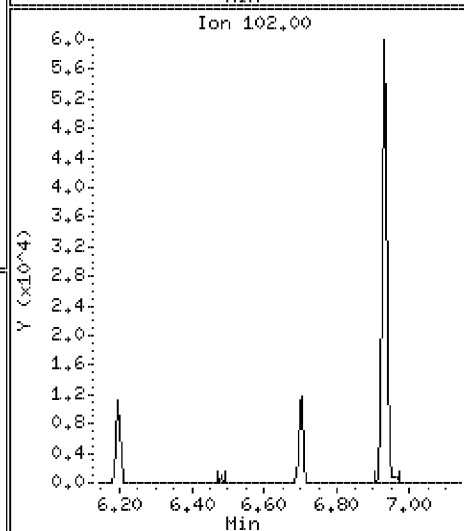
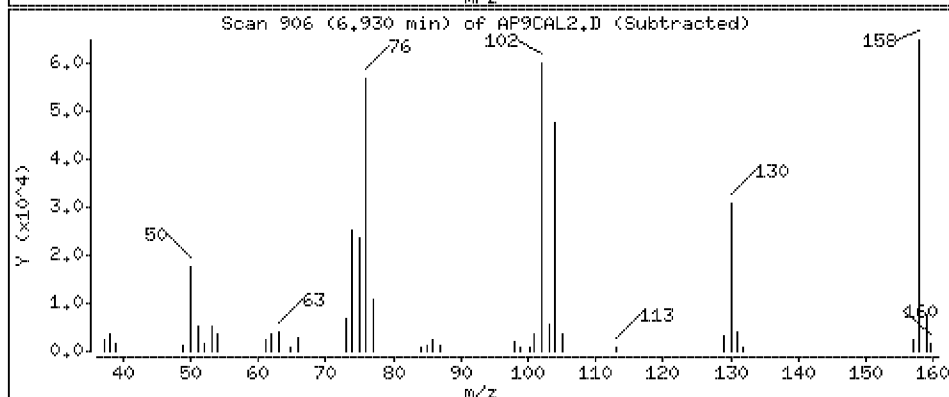
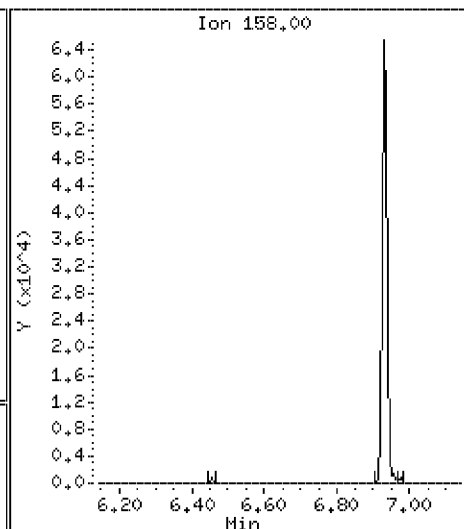
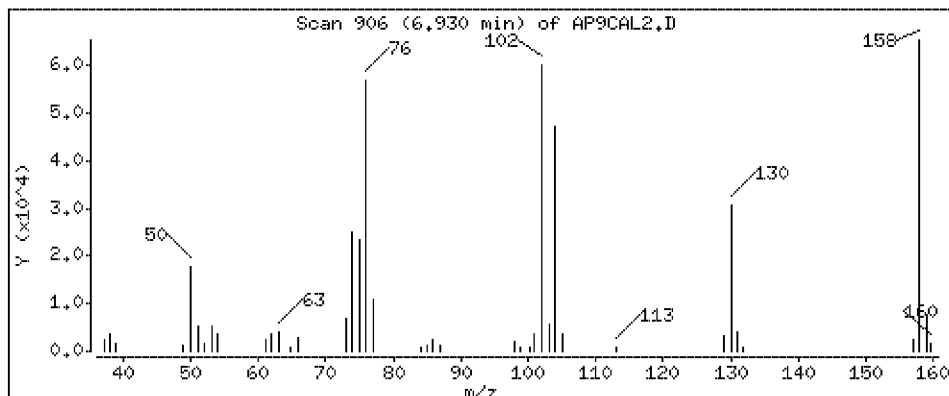
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

64 1,4-Naphthoquinone

Concentration: 8.7 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

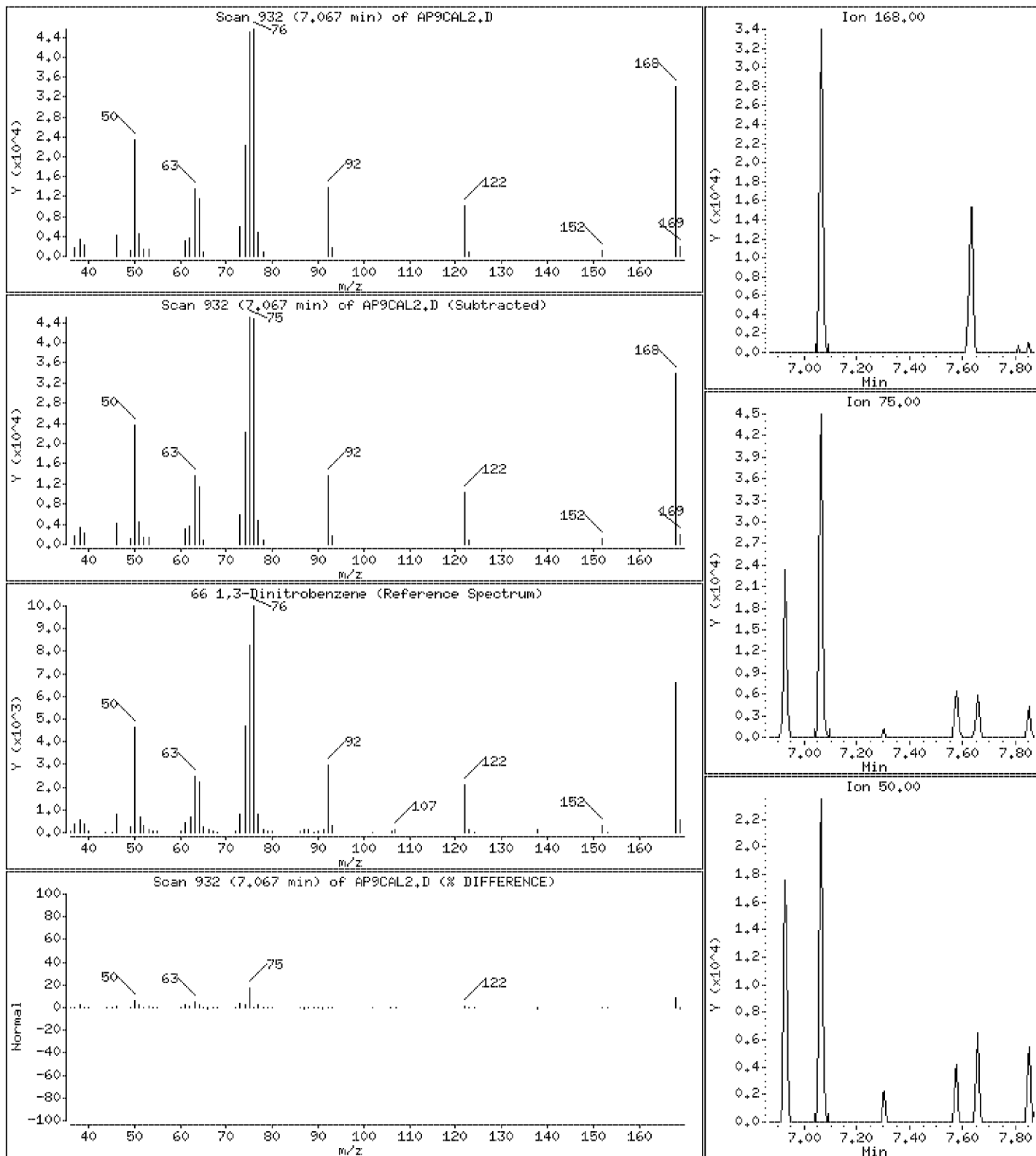
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

66 1,3-Dinitrobenzene

Concentration: 9.2 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

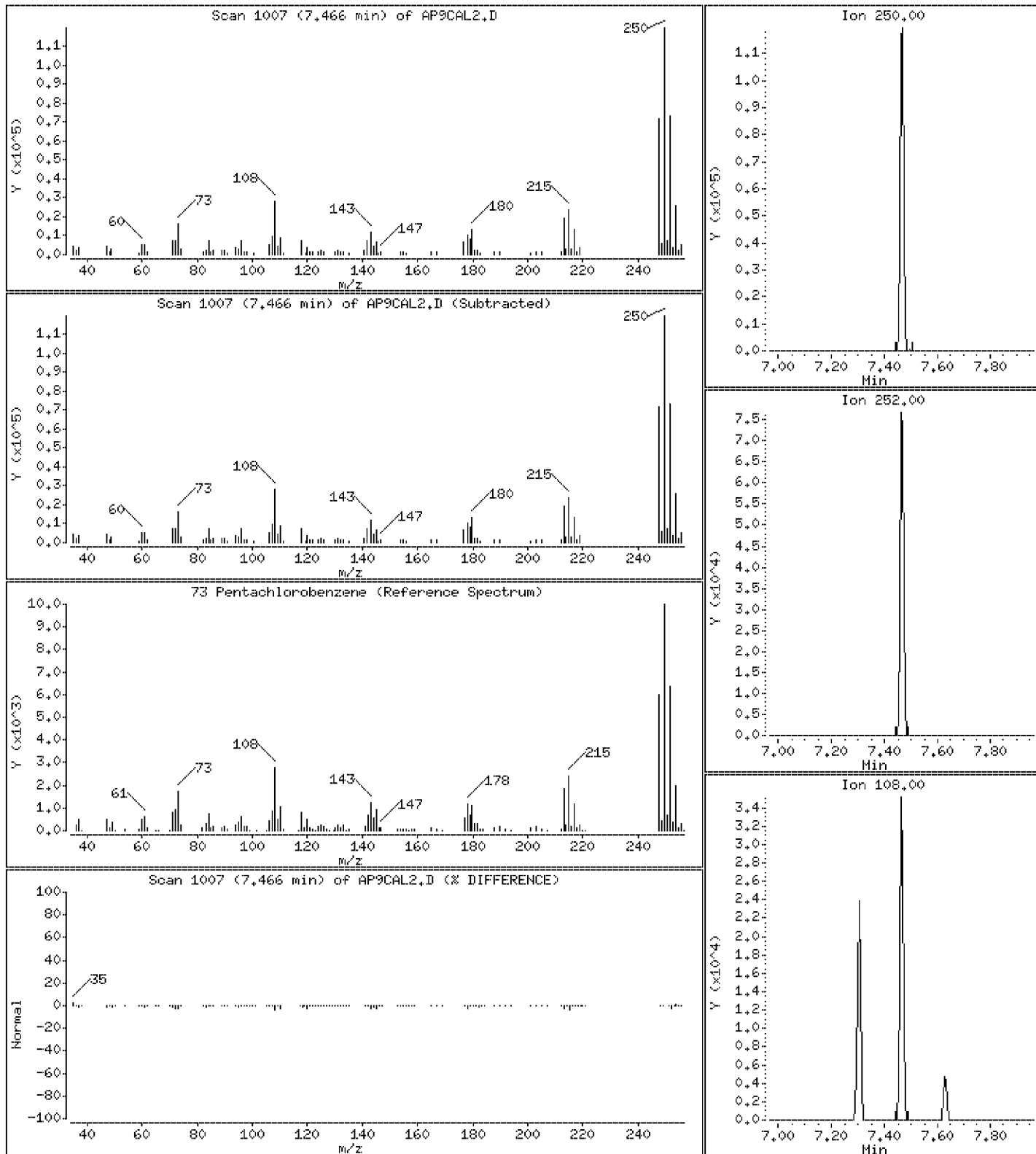
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

73 Pentachlorobenzene

Concentration: 9.1 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

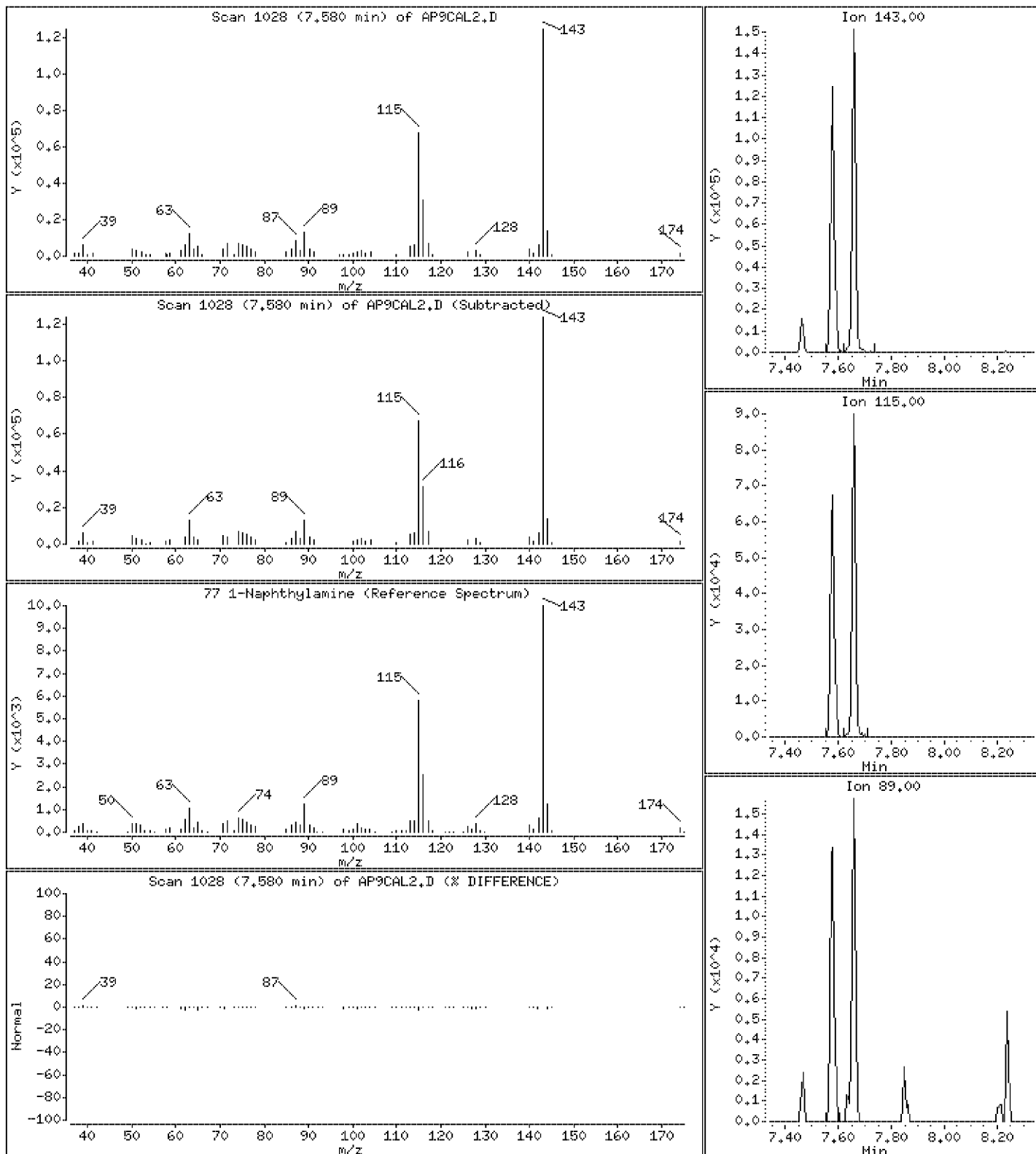
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

77 1-Naphthylamine

Concentration: 9.5 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

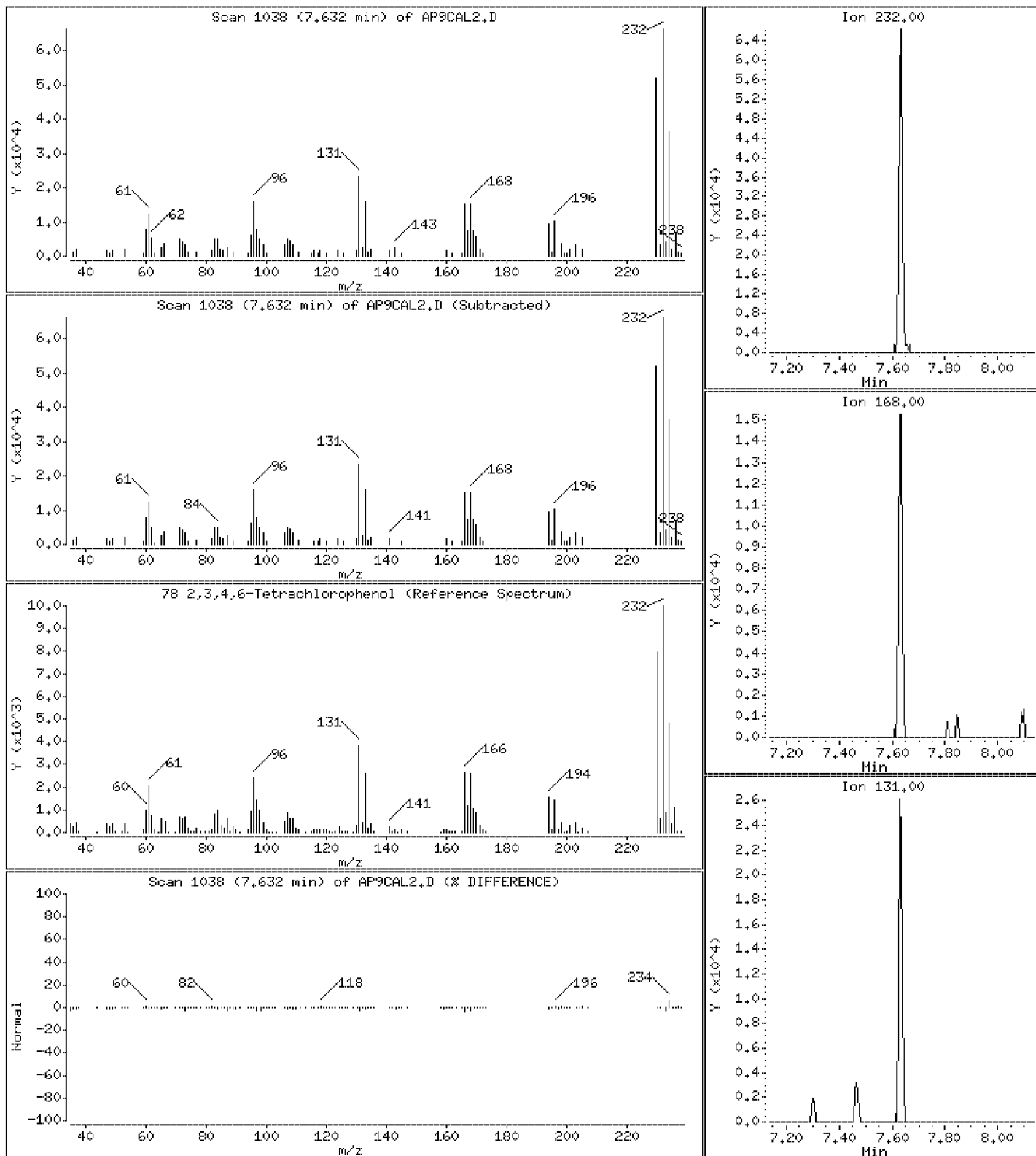
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

78 2,3,4,6-Tetrachlorophenol

Concentration: 9.0 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

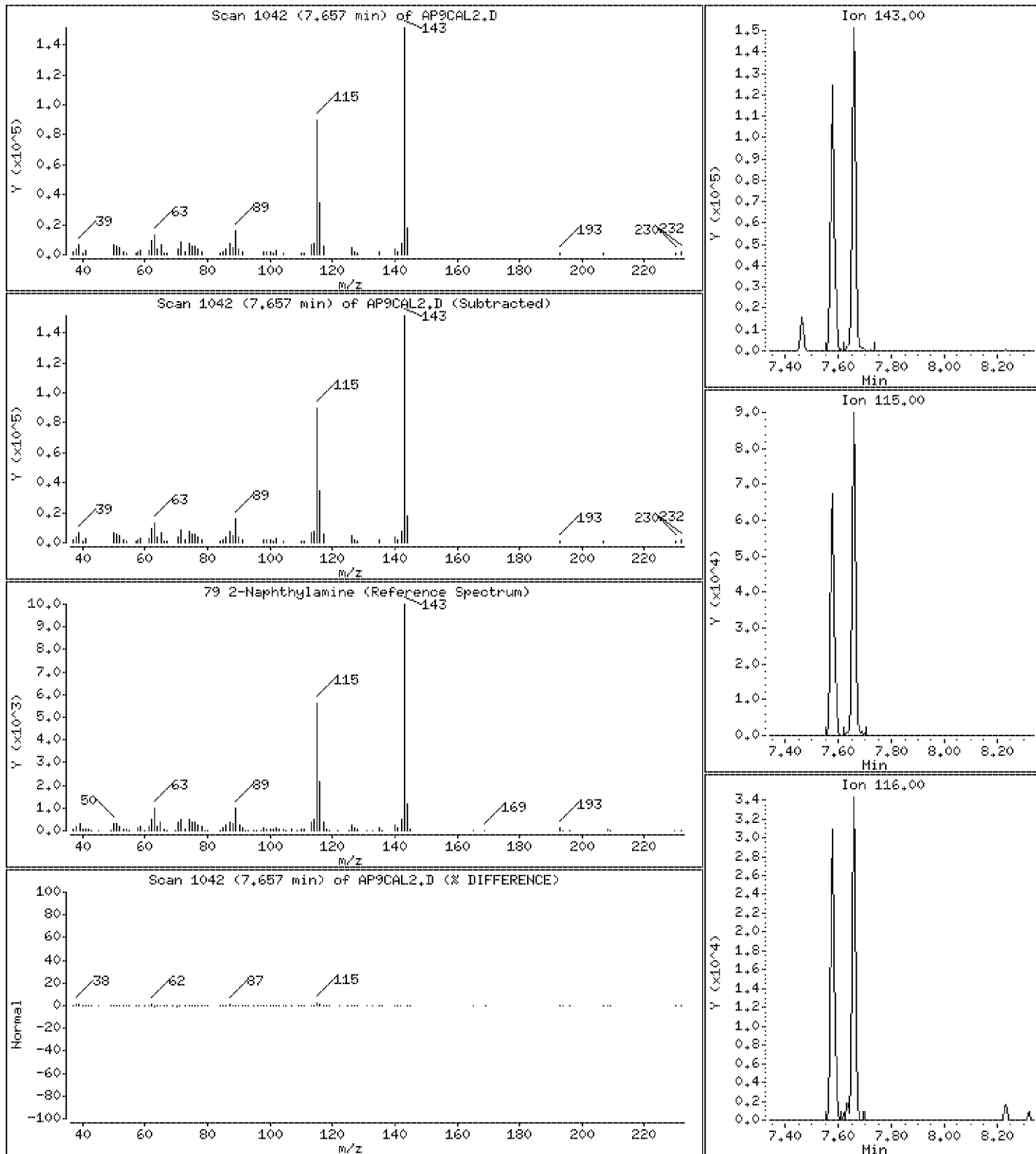
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

79 2-Naphthylamine

Concentration: 9.6 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

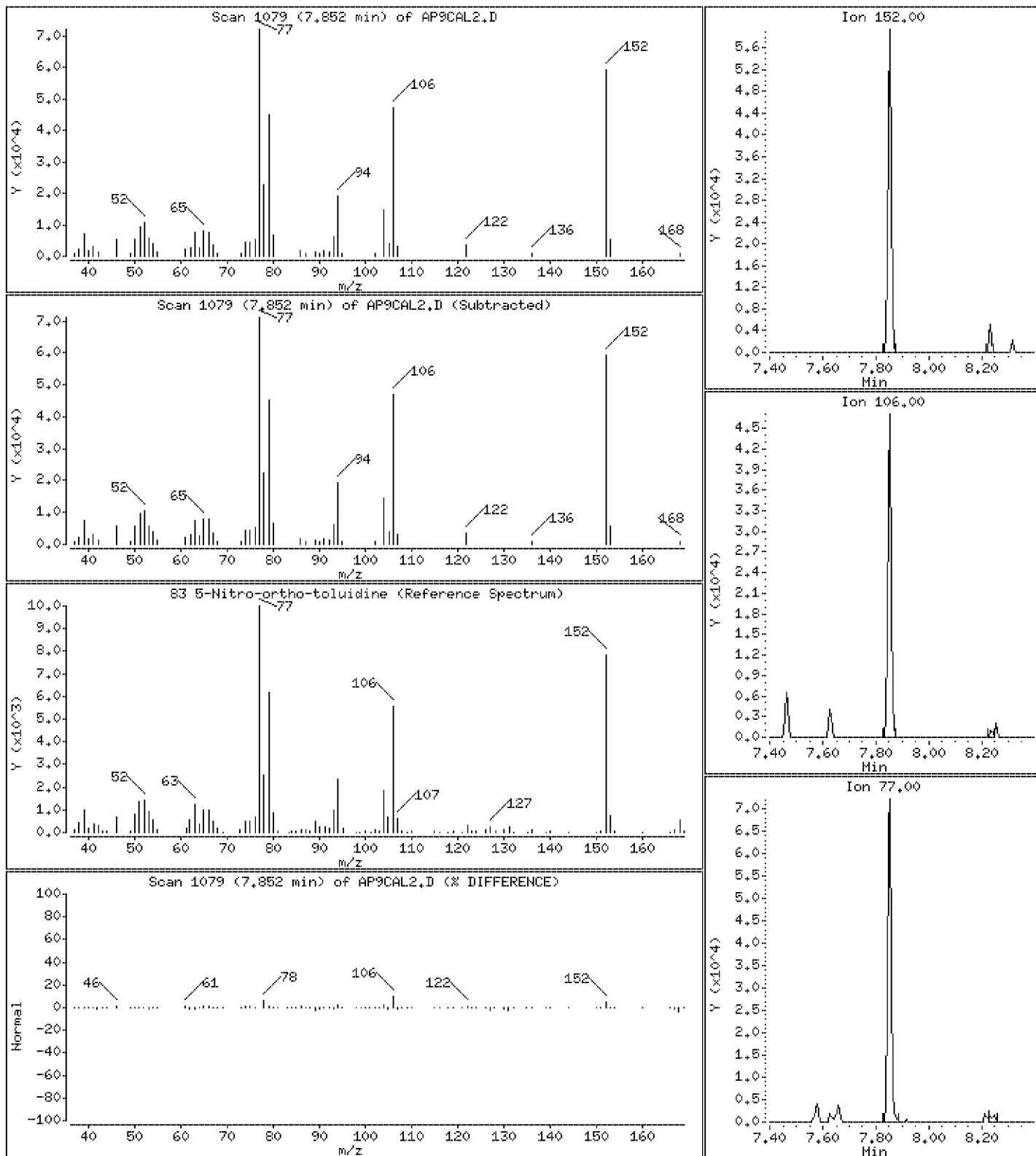
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

83 5-Nitro-ortho-toluidine

Concentration: 8.9 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

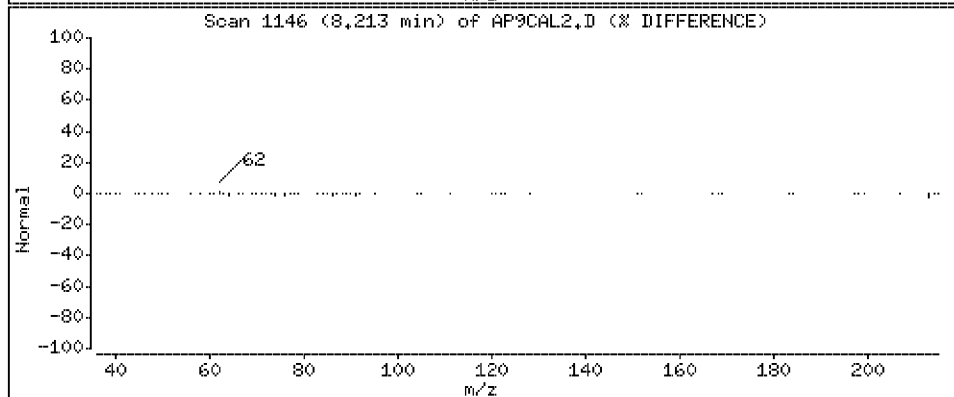
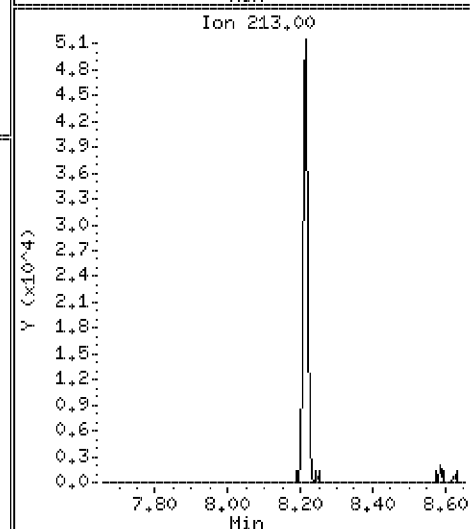
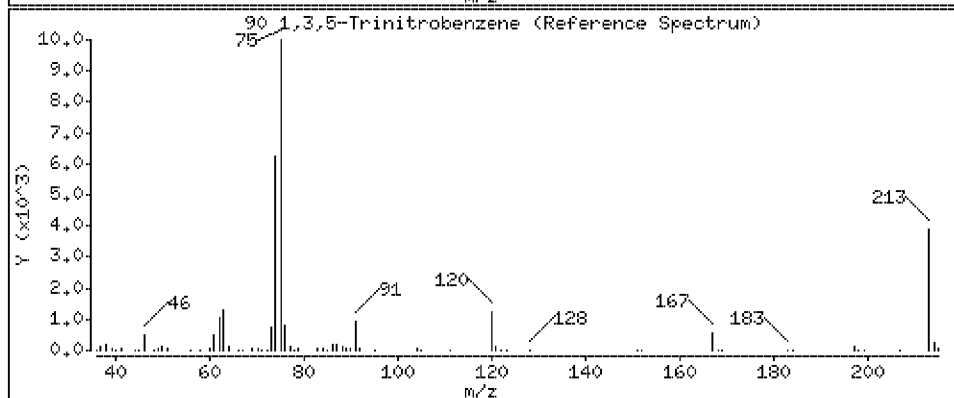
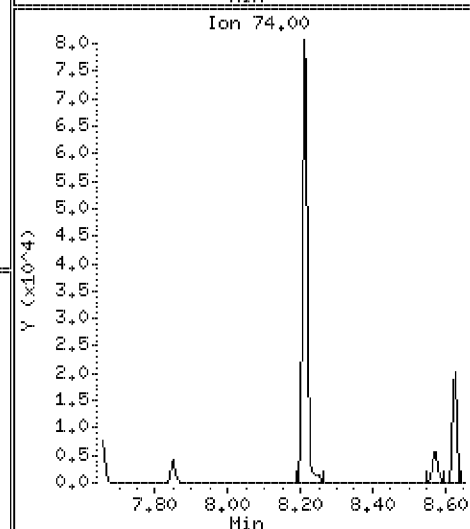
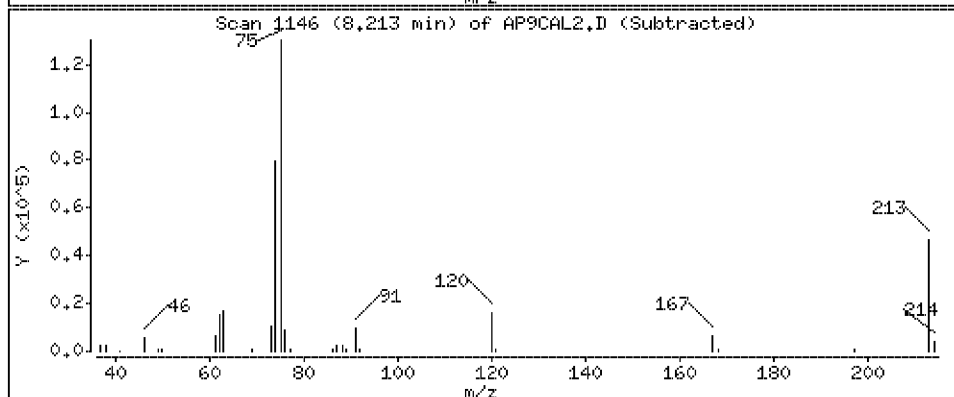
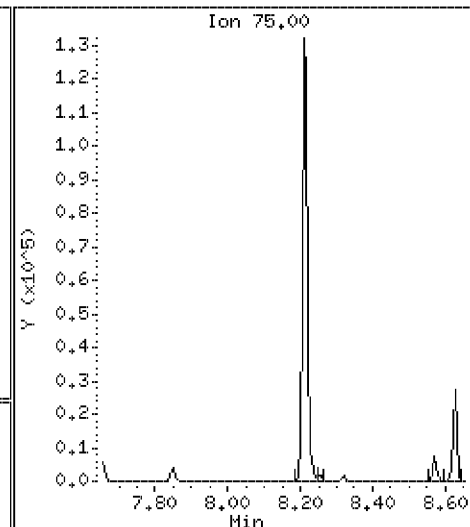
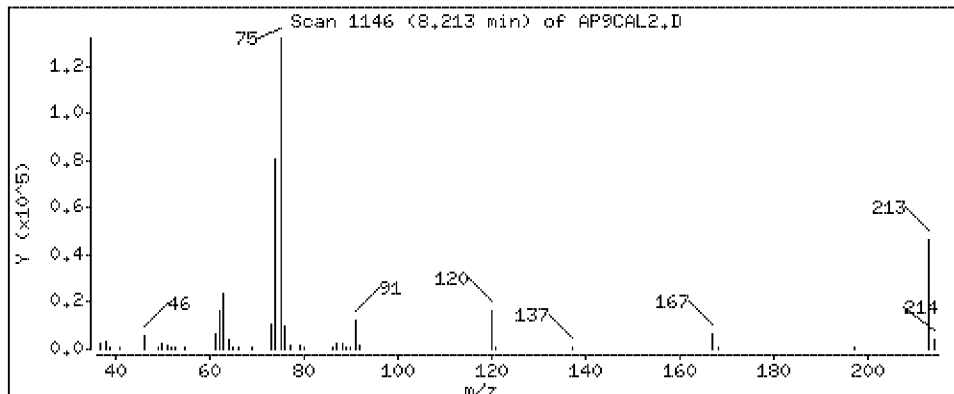
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

90 1,3,5-Trinitrobenzene

Concentration: 10.6 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

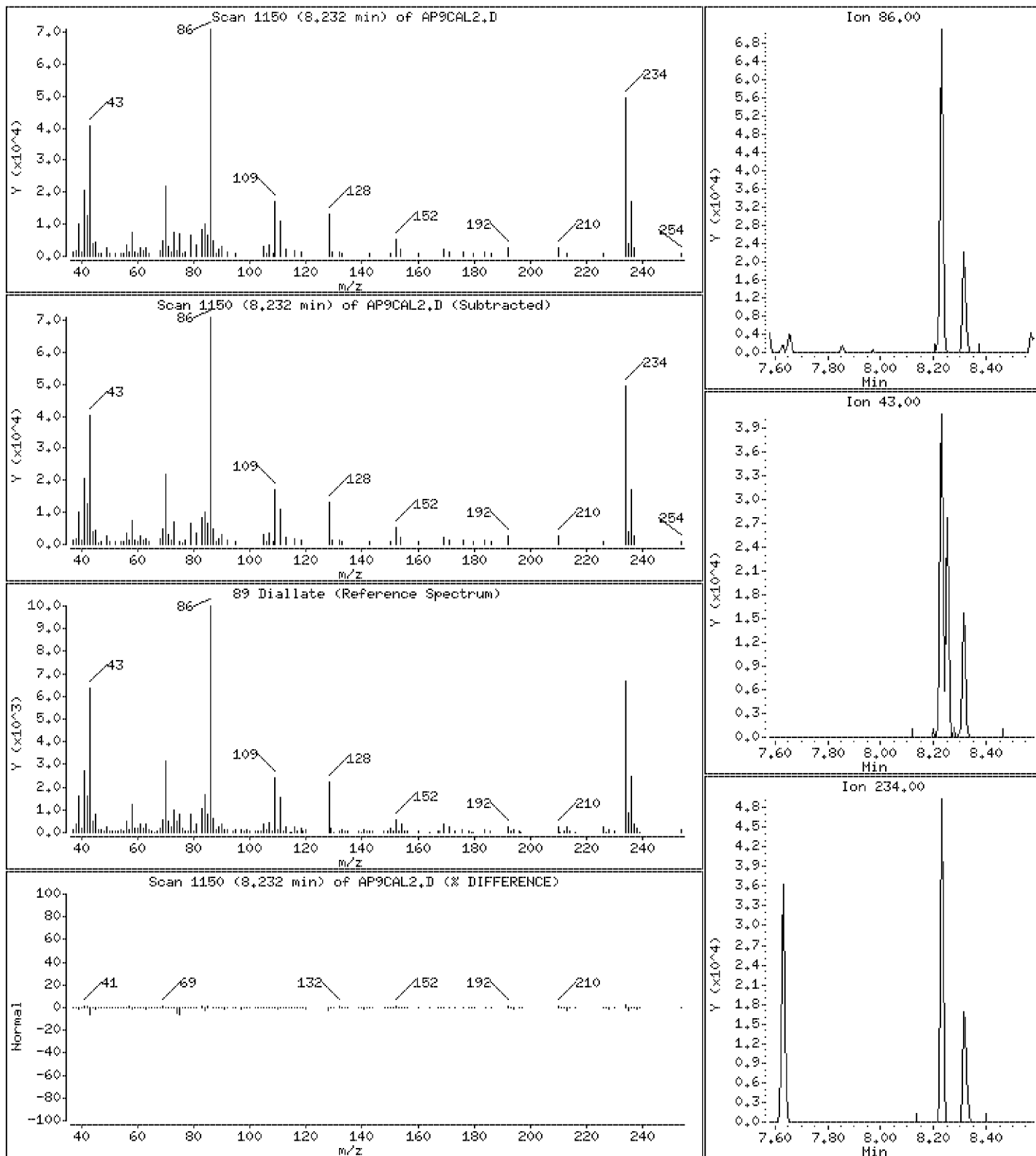
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

89 Diallate

Concentration: 9.0 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

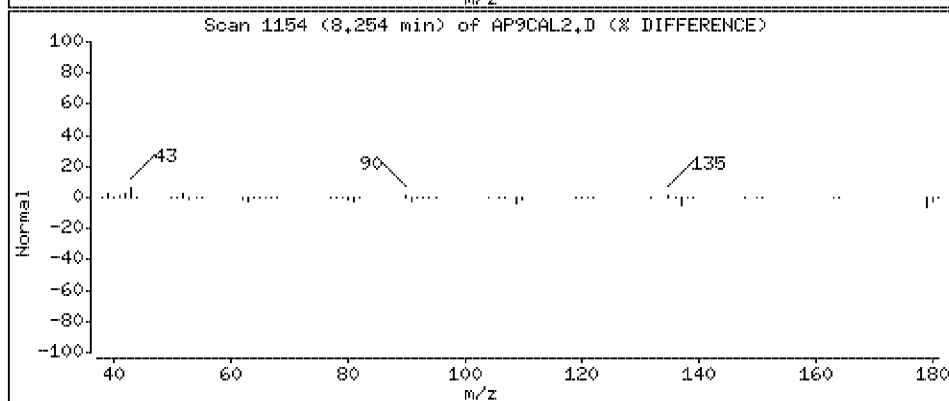
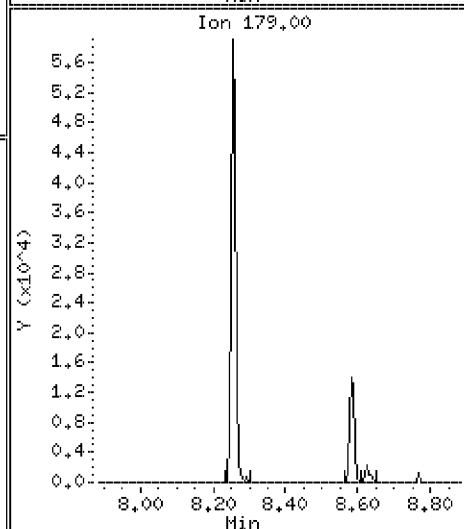
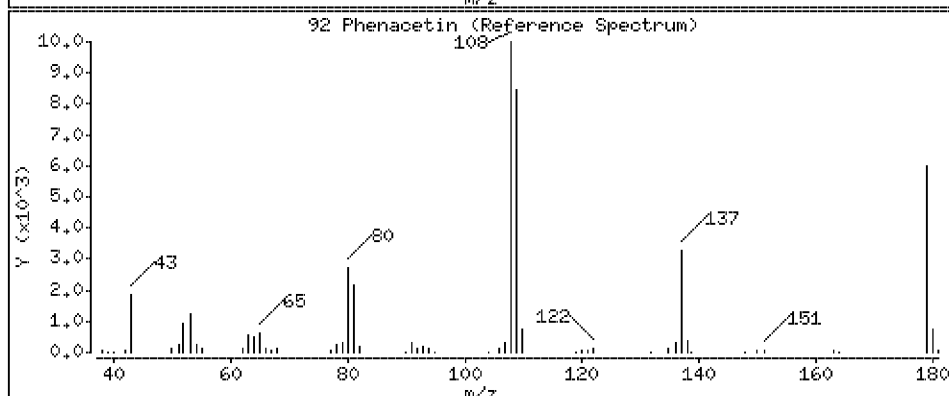
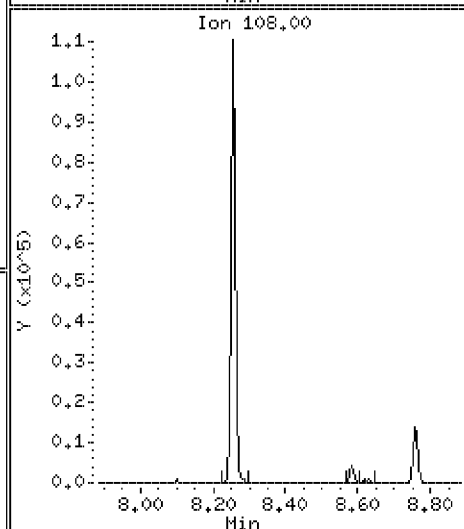
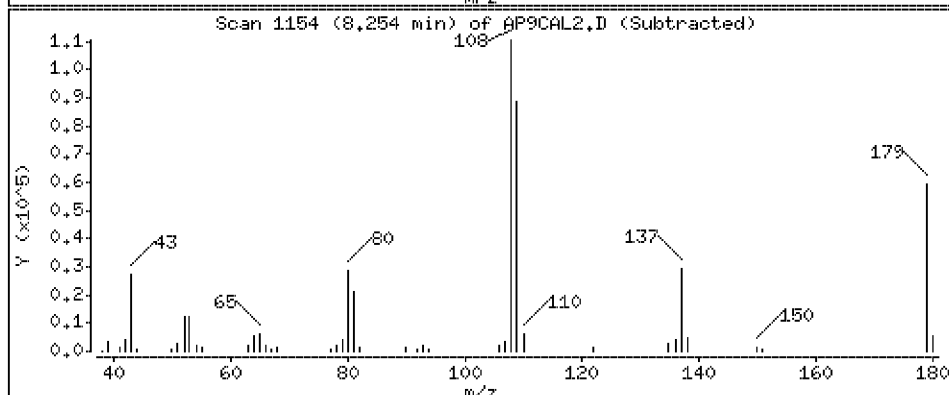
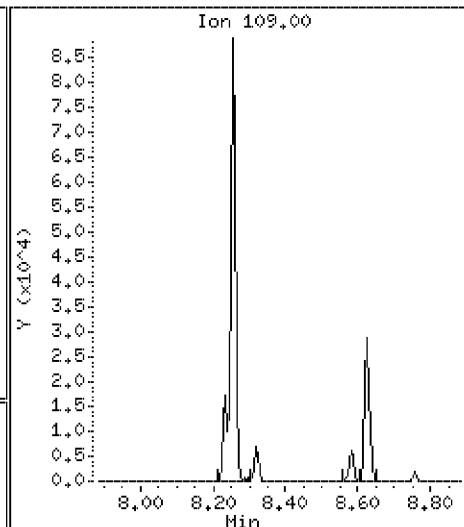
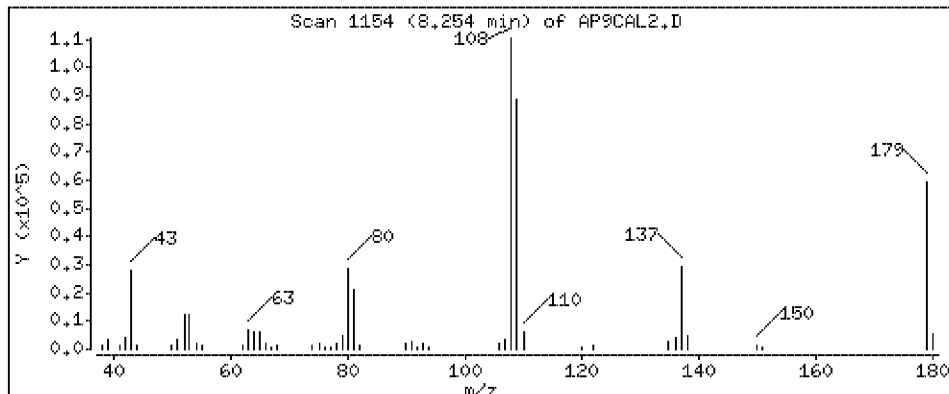
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

92 Phenacetin

Concentration: 10.2 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

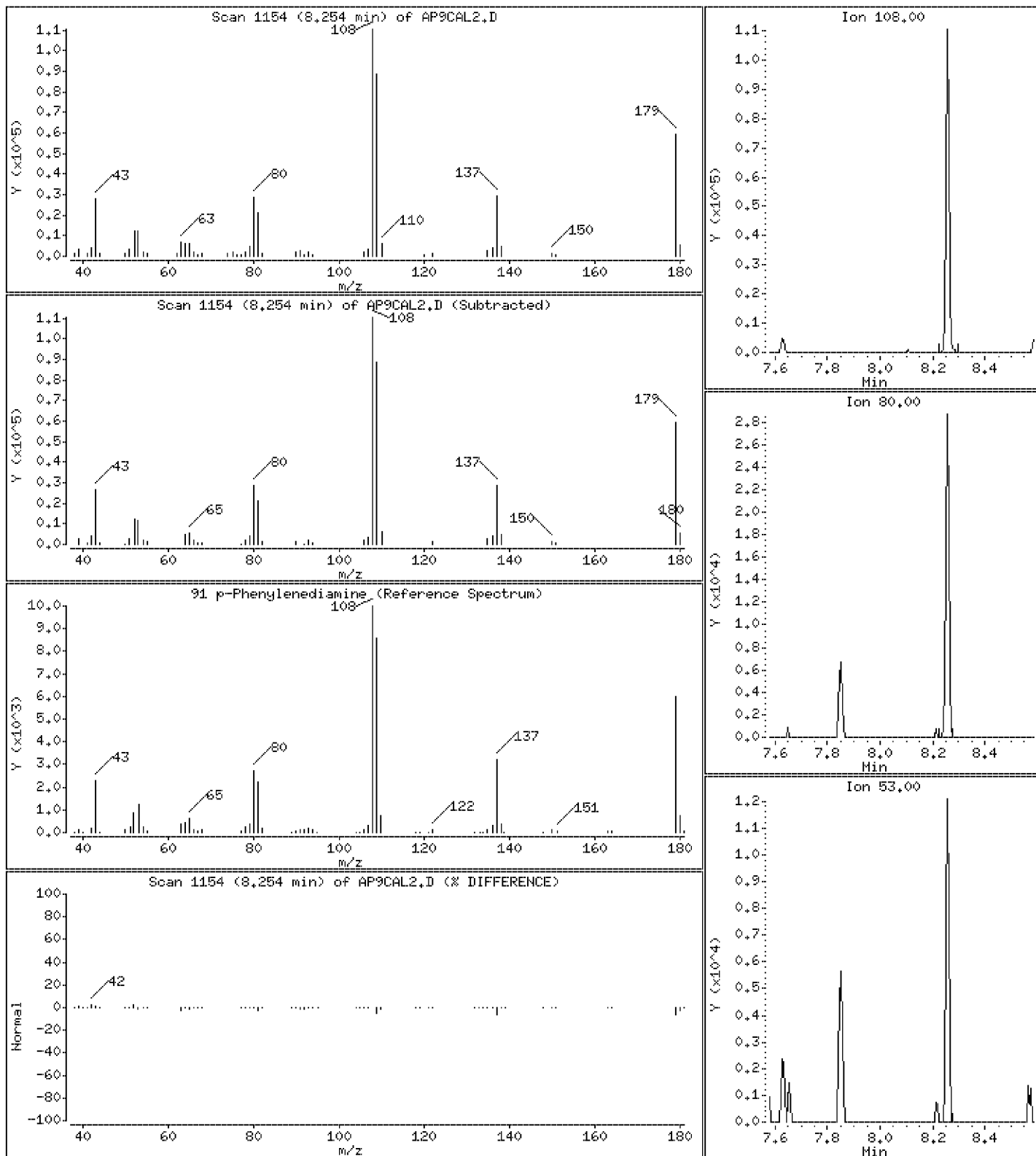
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

91 p-Phenylenediamine

Concentration: 9.3 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

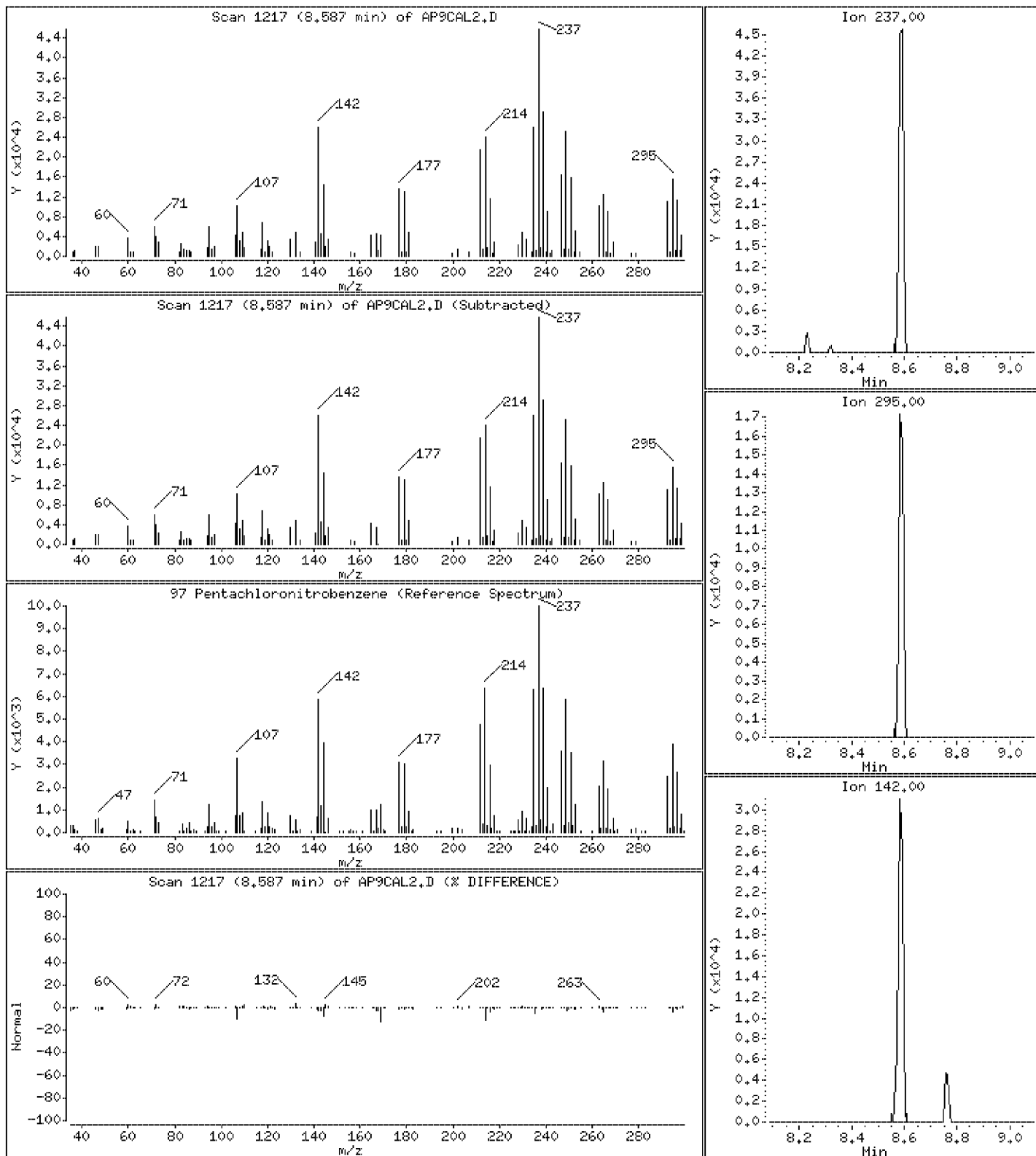
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

97 Pentachloronitrobenzene

Concentration: 9.4 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

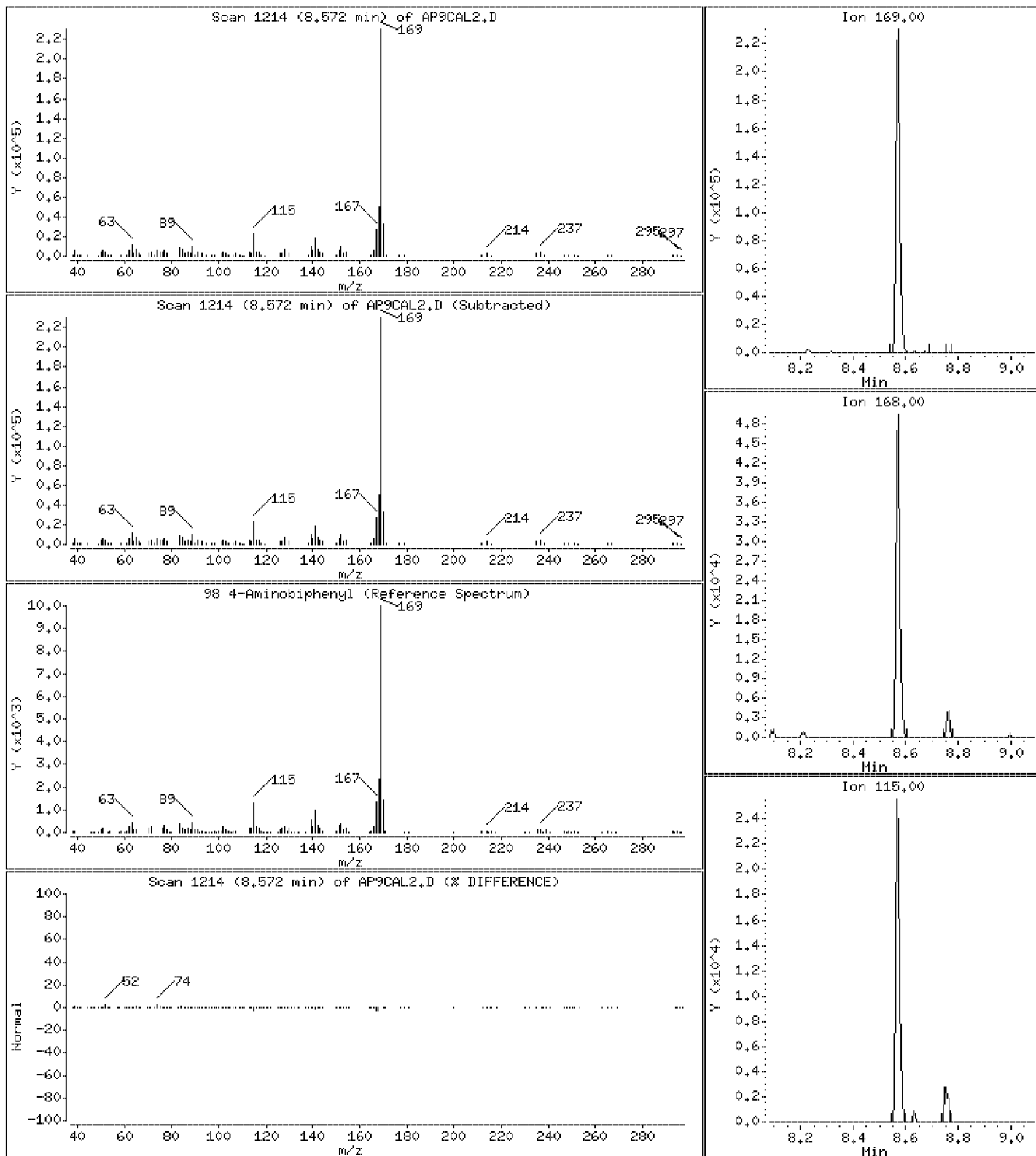
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

98 4-Aminobiphenyl

Concentration: 9.8 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

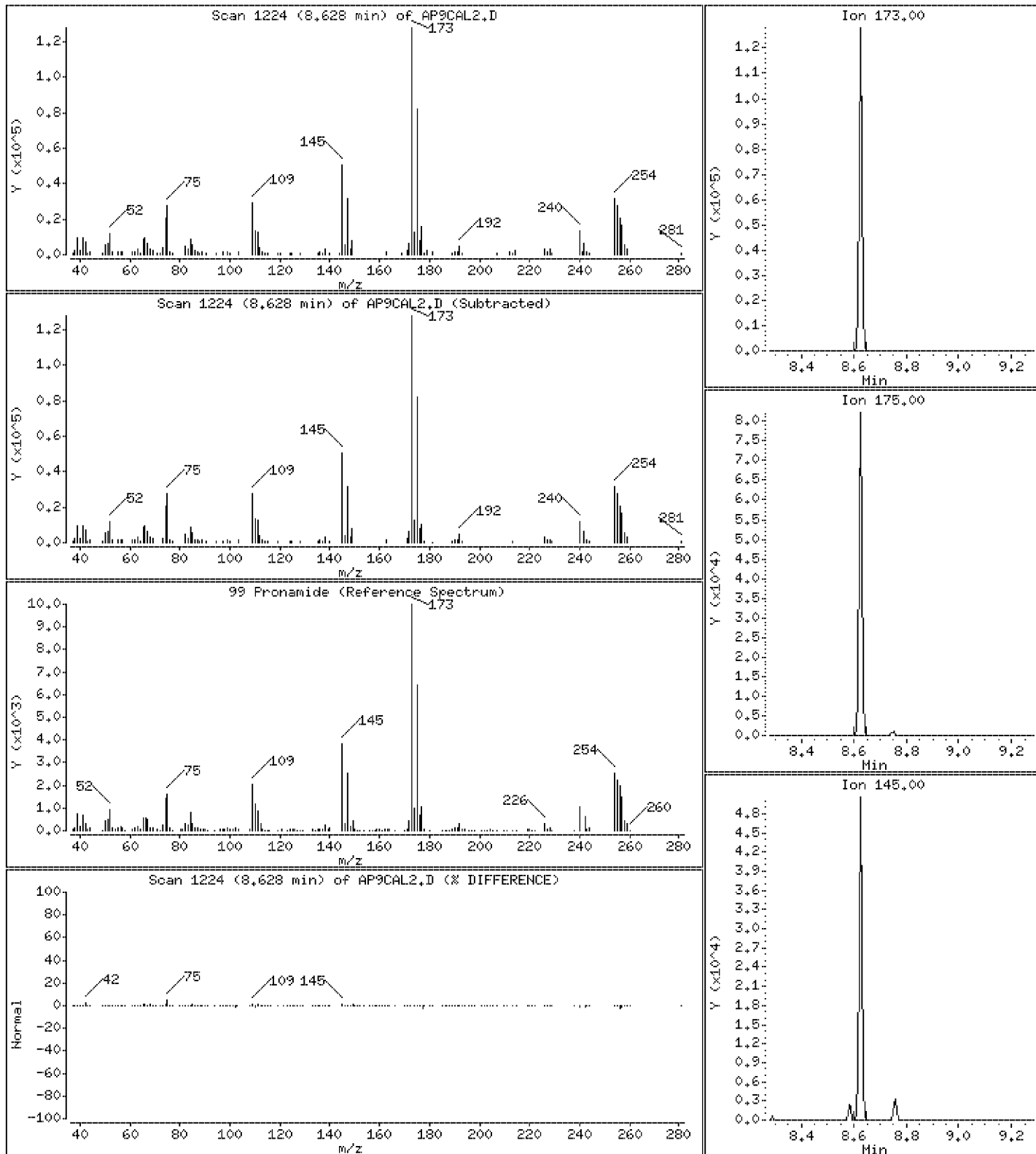
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

99 Pronamide

Concentration: 9.1 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

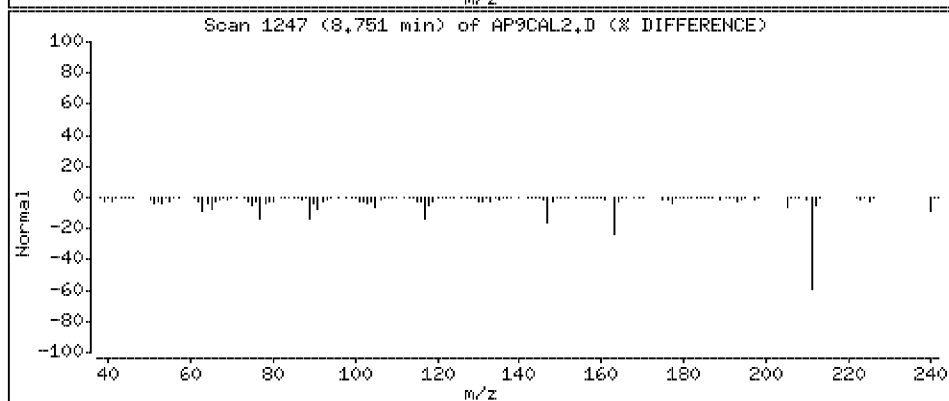
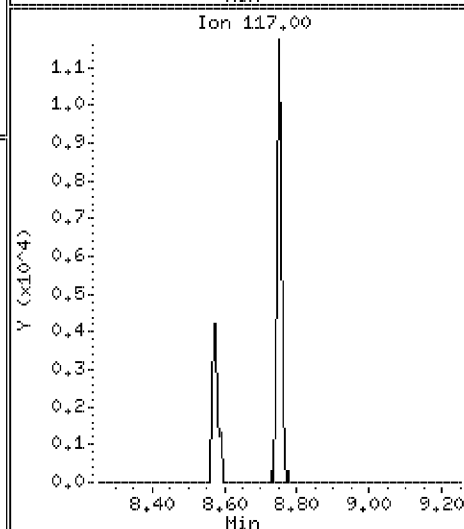
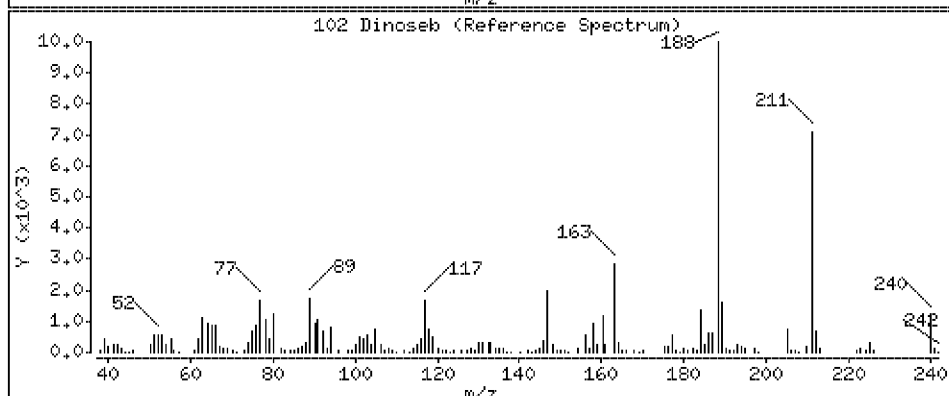
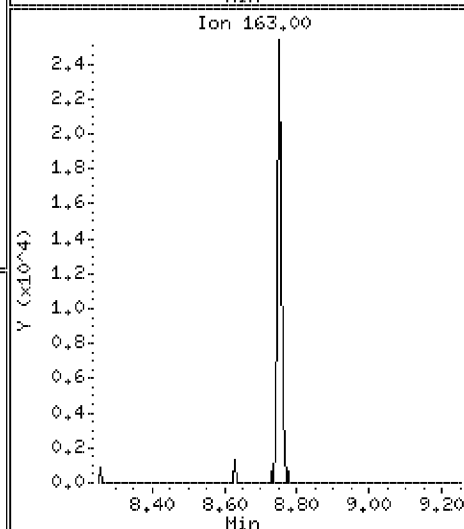
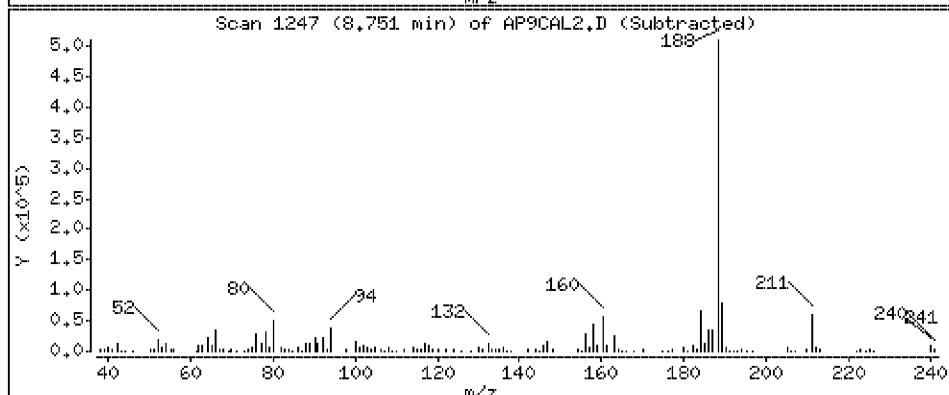
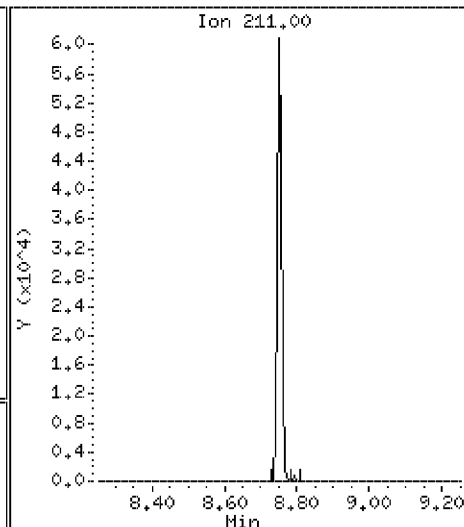
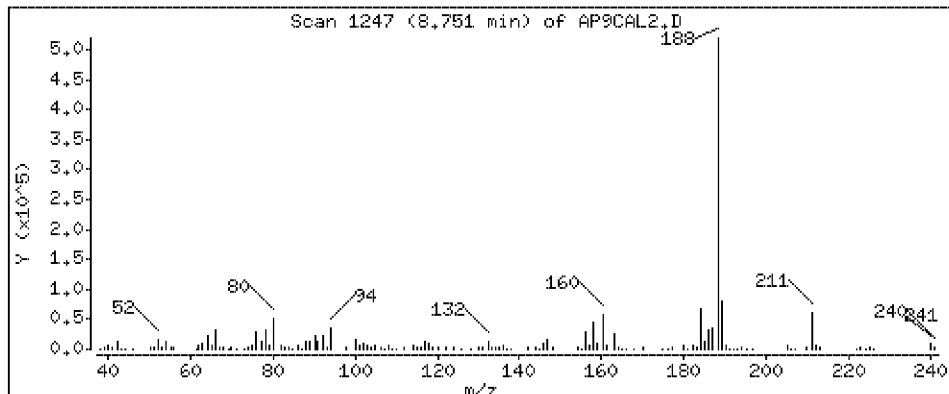
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

102 Dinoseb

Concentration: 9.8 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

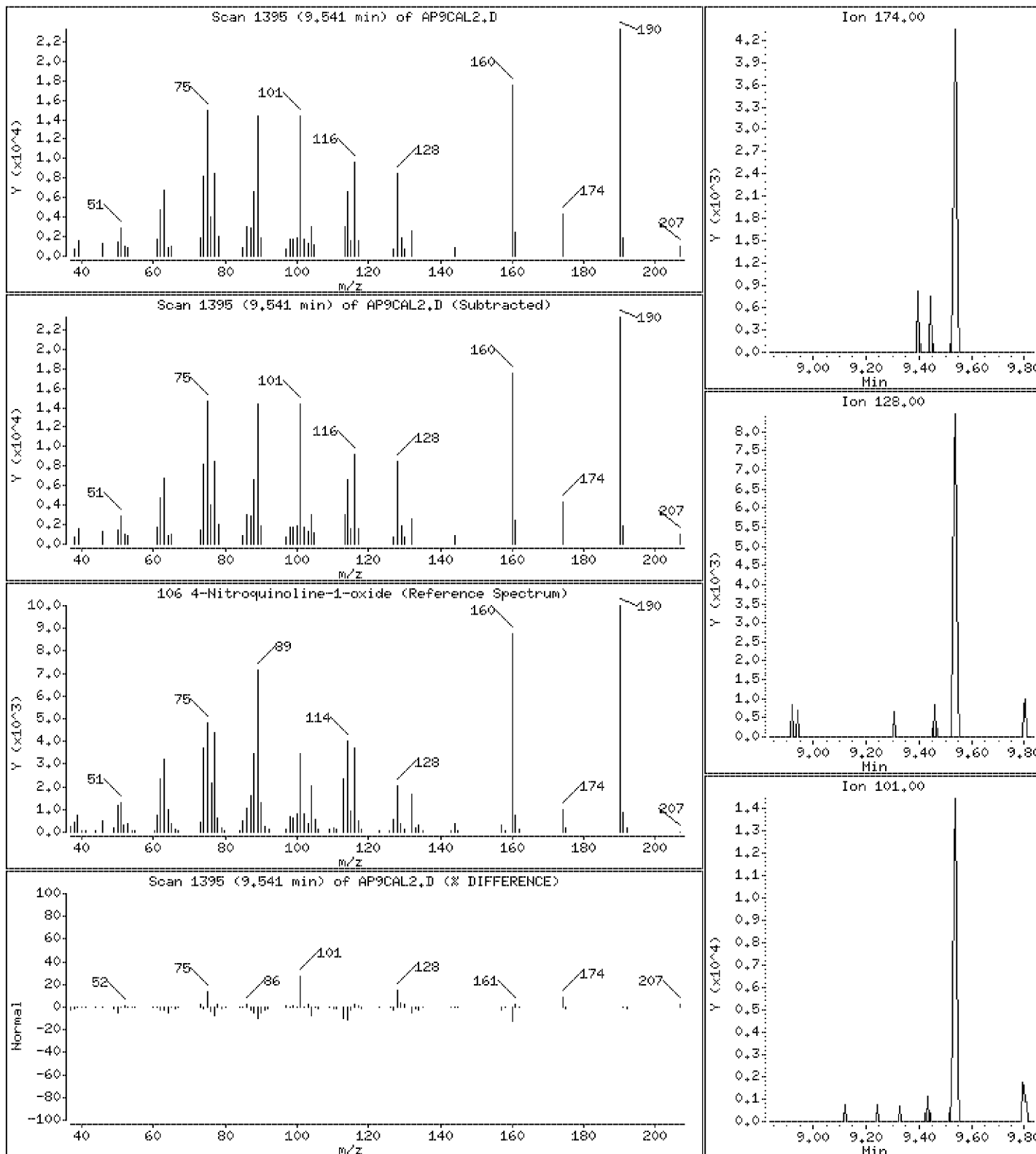
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

106 4-Nitroquinoline-1-oxide

Concentration: 10.1 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

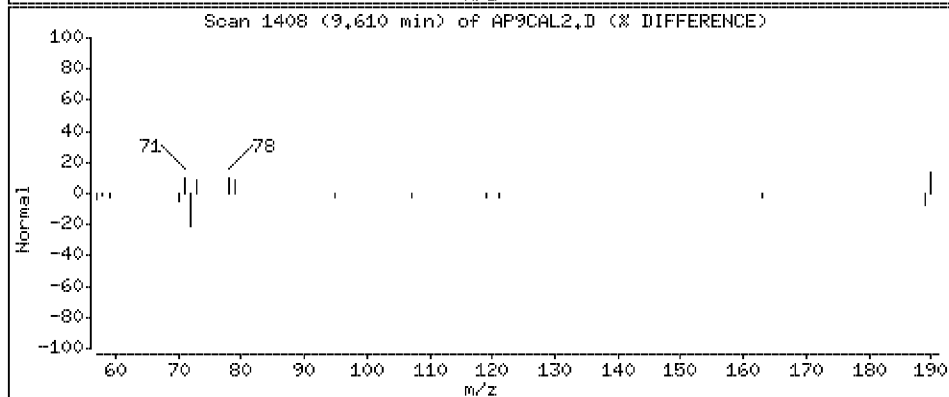
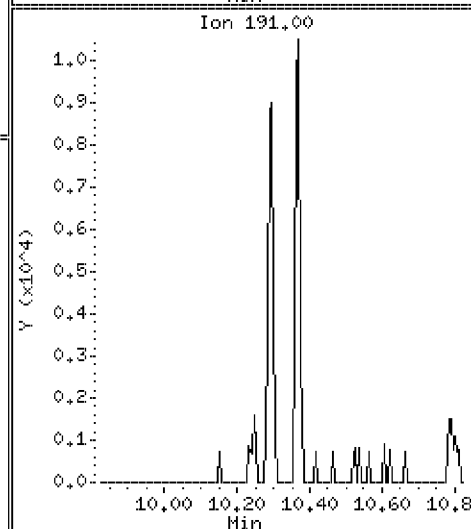
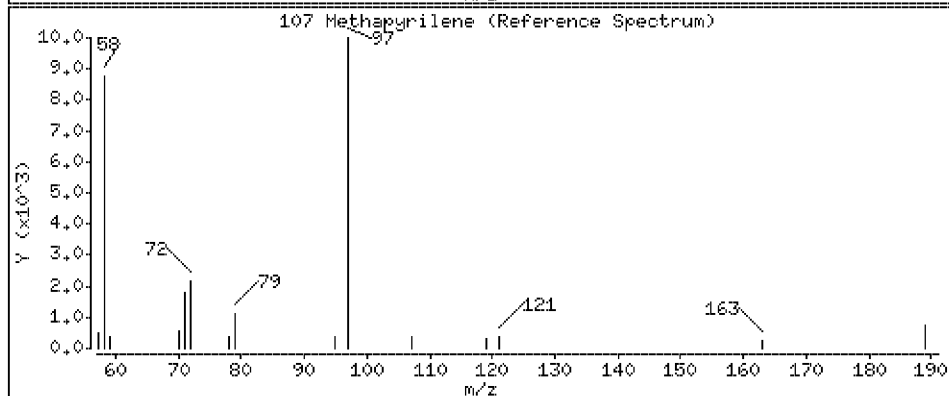
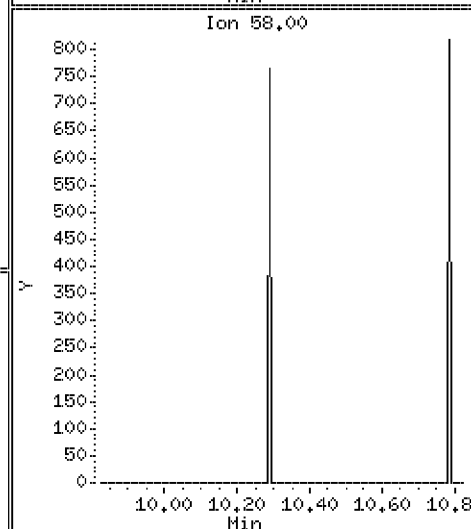
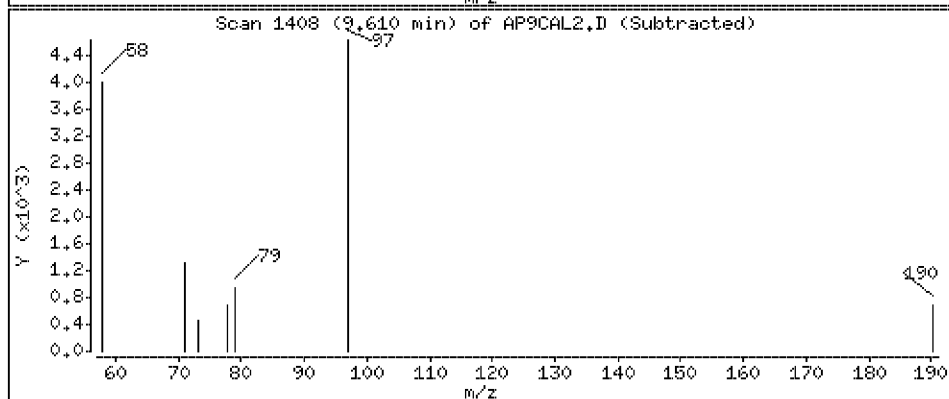
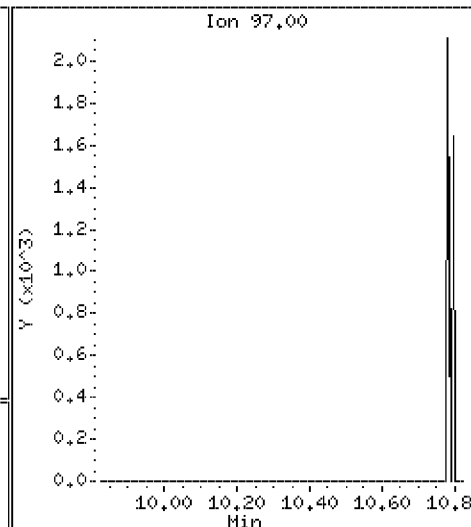
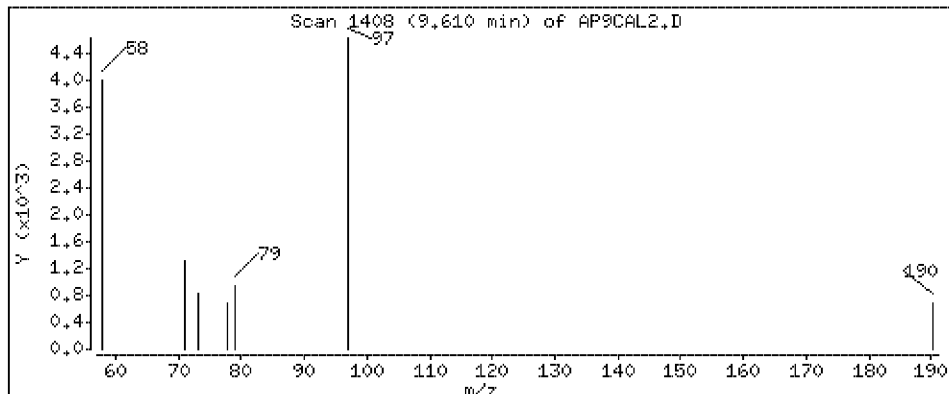
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

107 Methapyrilene

Concentration: 8.5 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

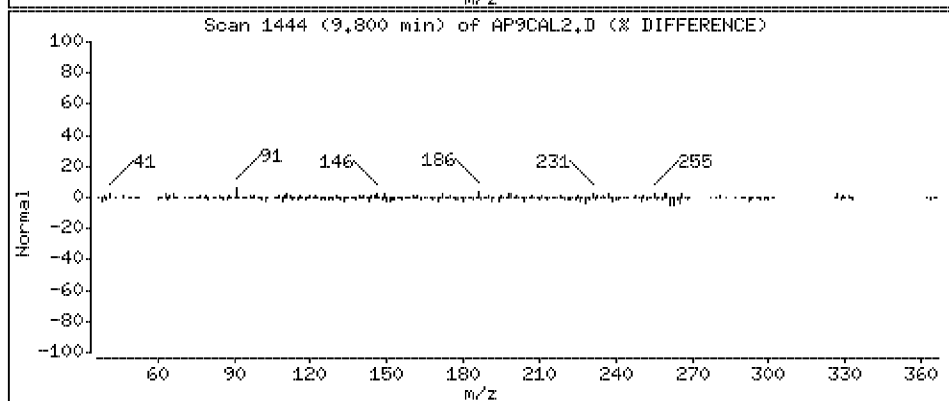
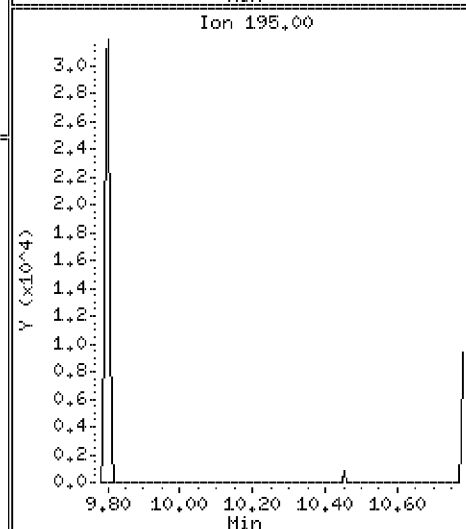
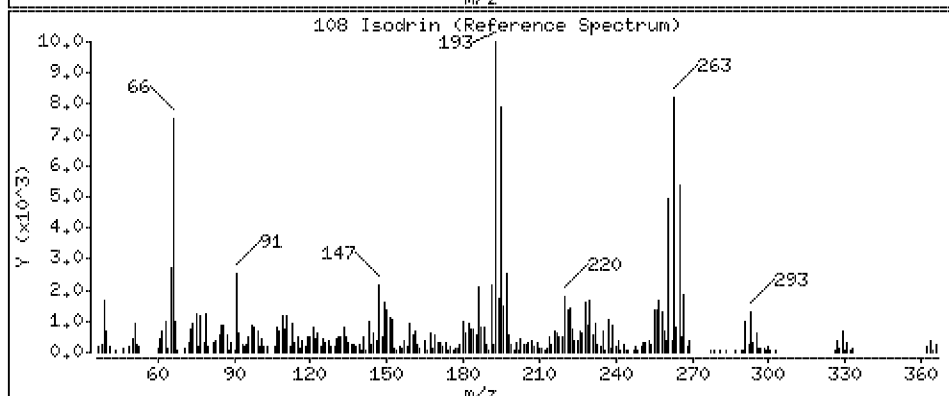
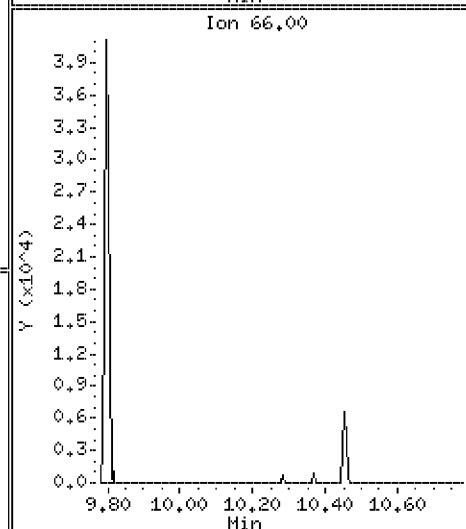
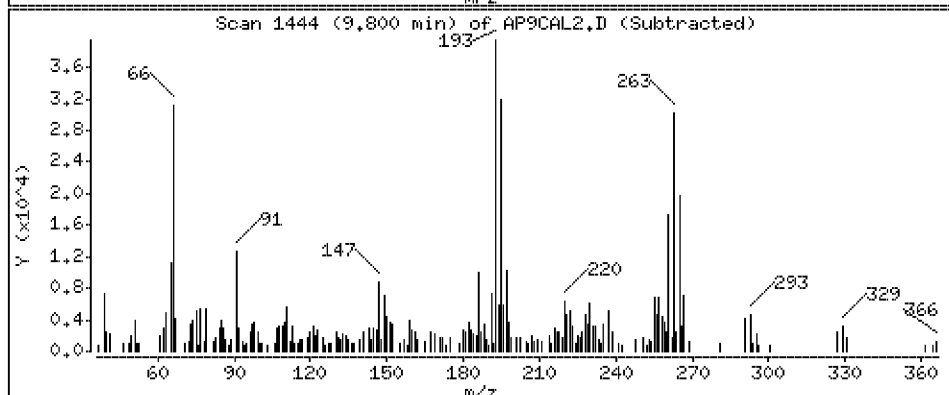
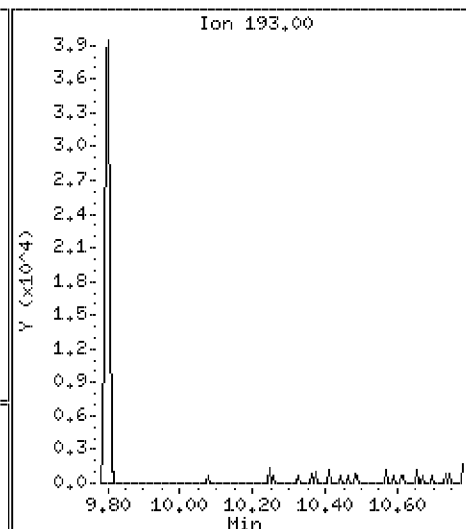
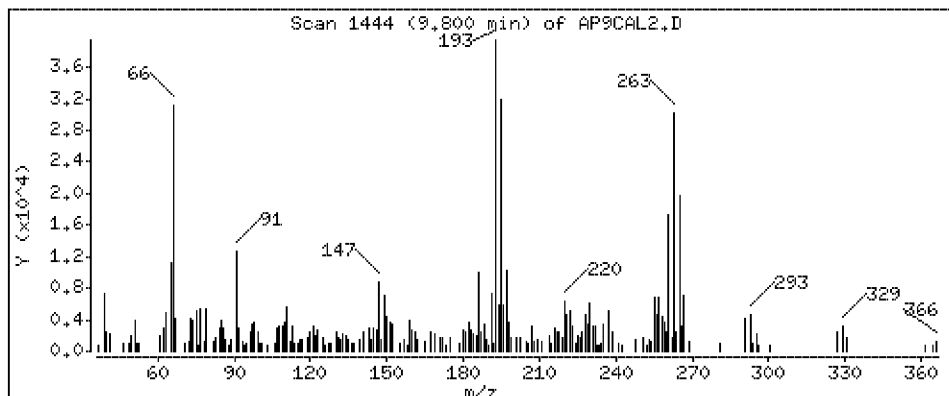
Operator: MJ

Column phase: HPMS-5

Column diameter: 0.25

108 Isodrin

Concentration: 9.6 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

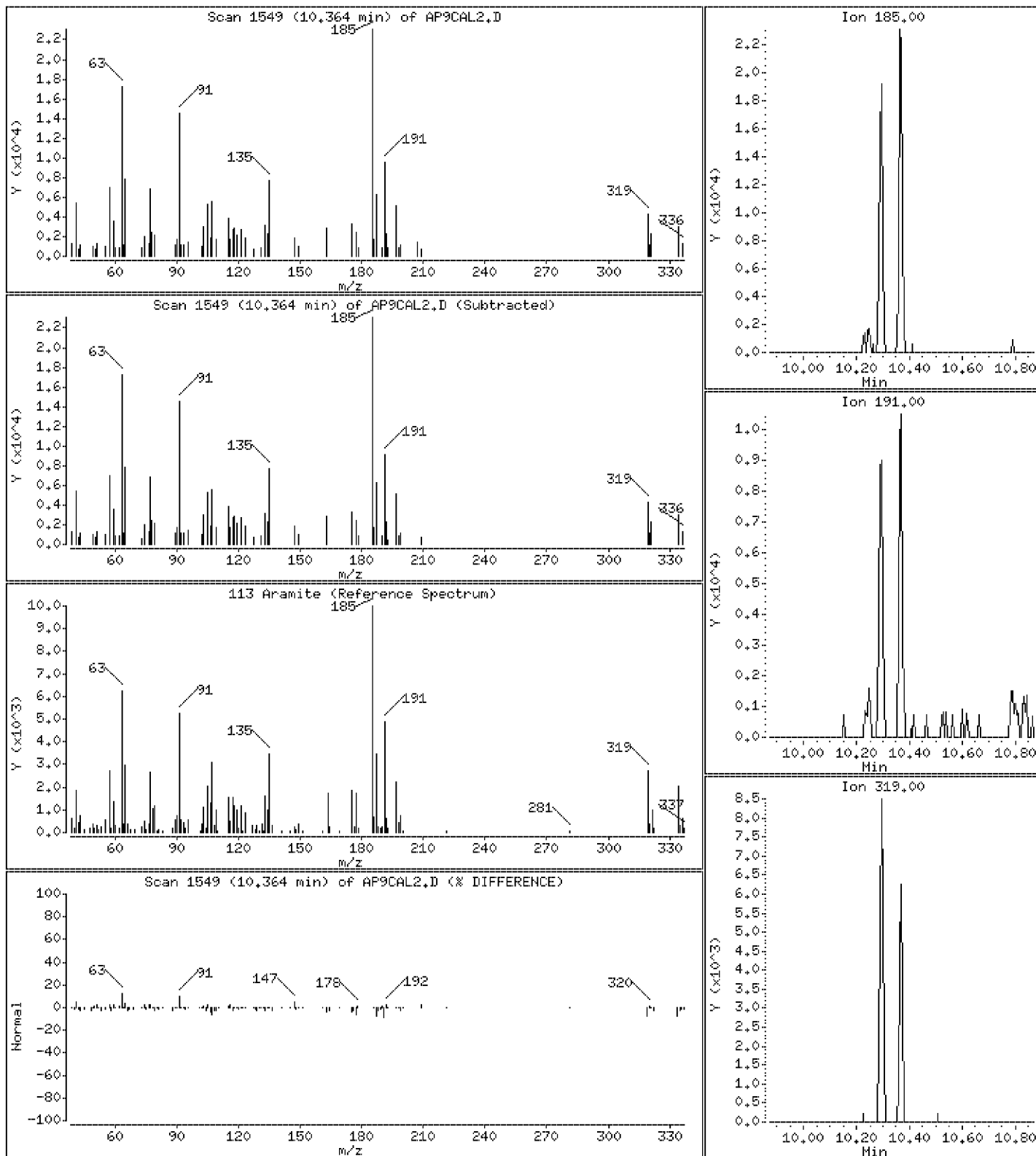
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

113 Aramite

Concentration: 9.5 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

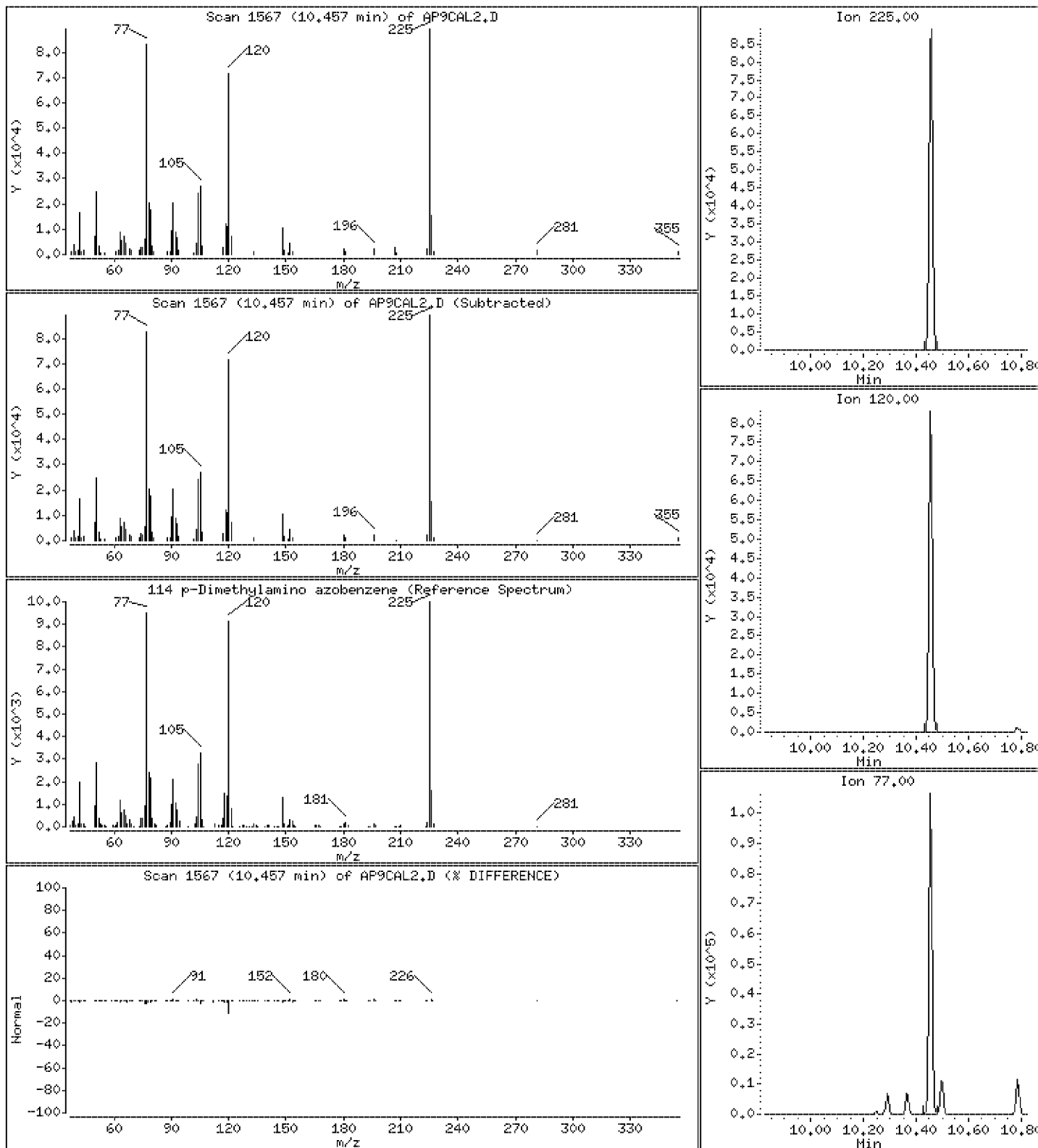
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

114 p-Dimethylamino azobenzene

Concentration: 8.8 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

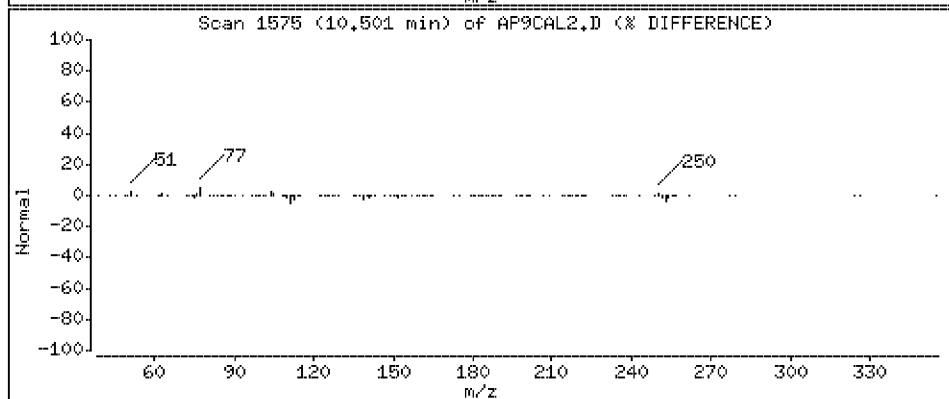
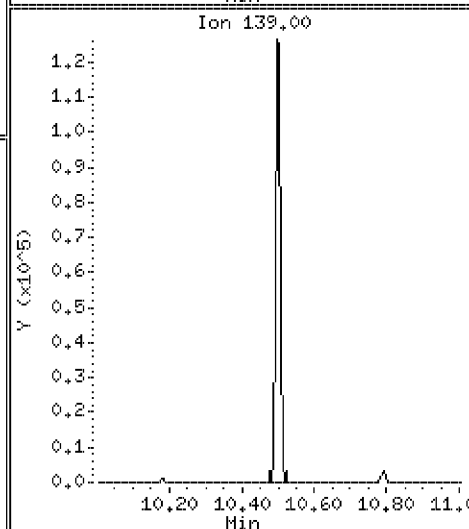
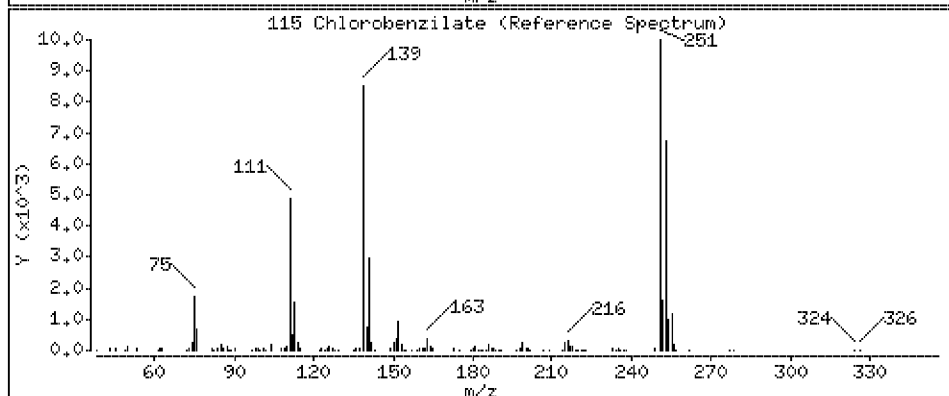
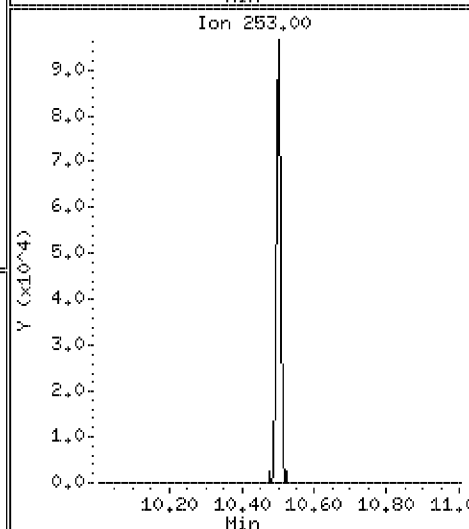
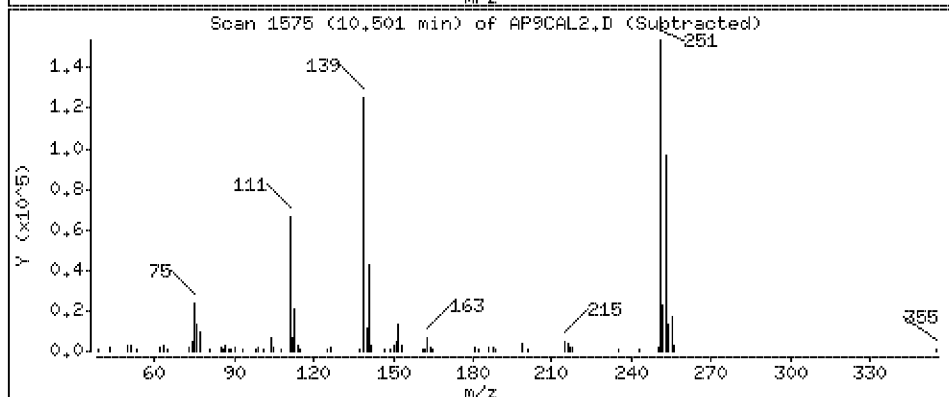
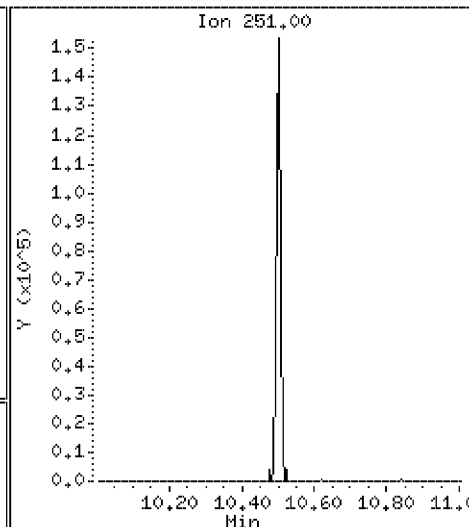
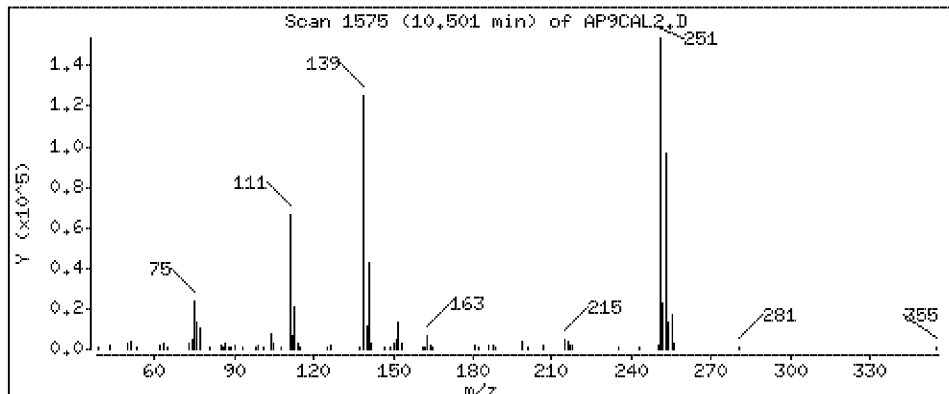
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

115 Chlorobenzilate

Concentration: 8.6 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

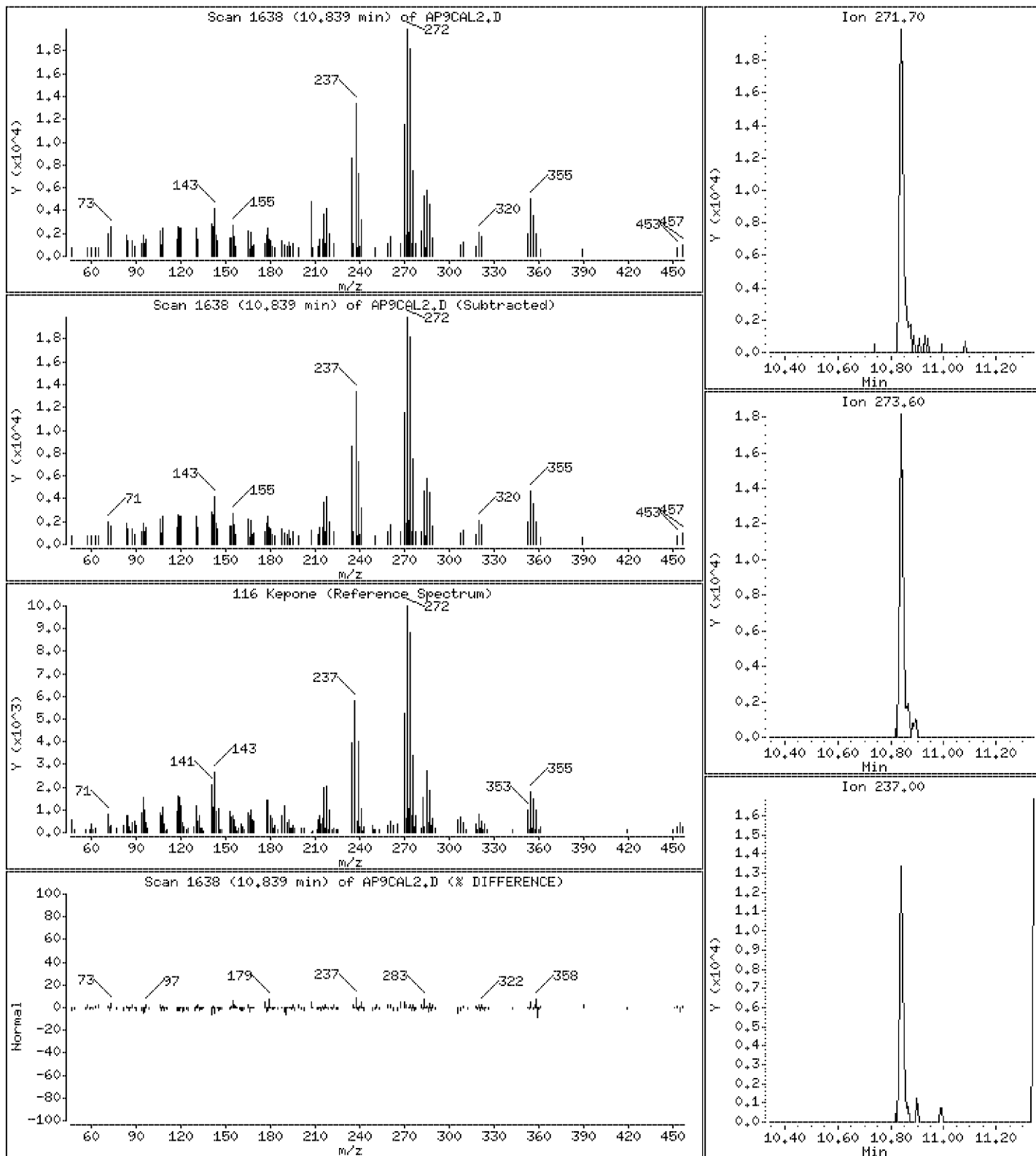
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

116 Kepone

Concentration: 9.9 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

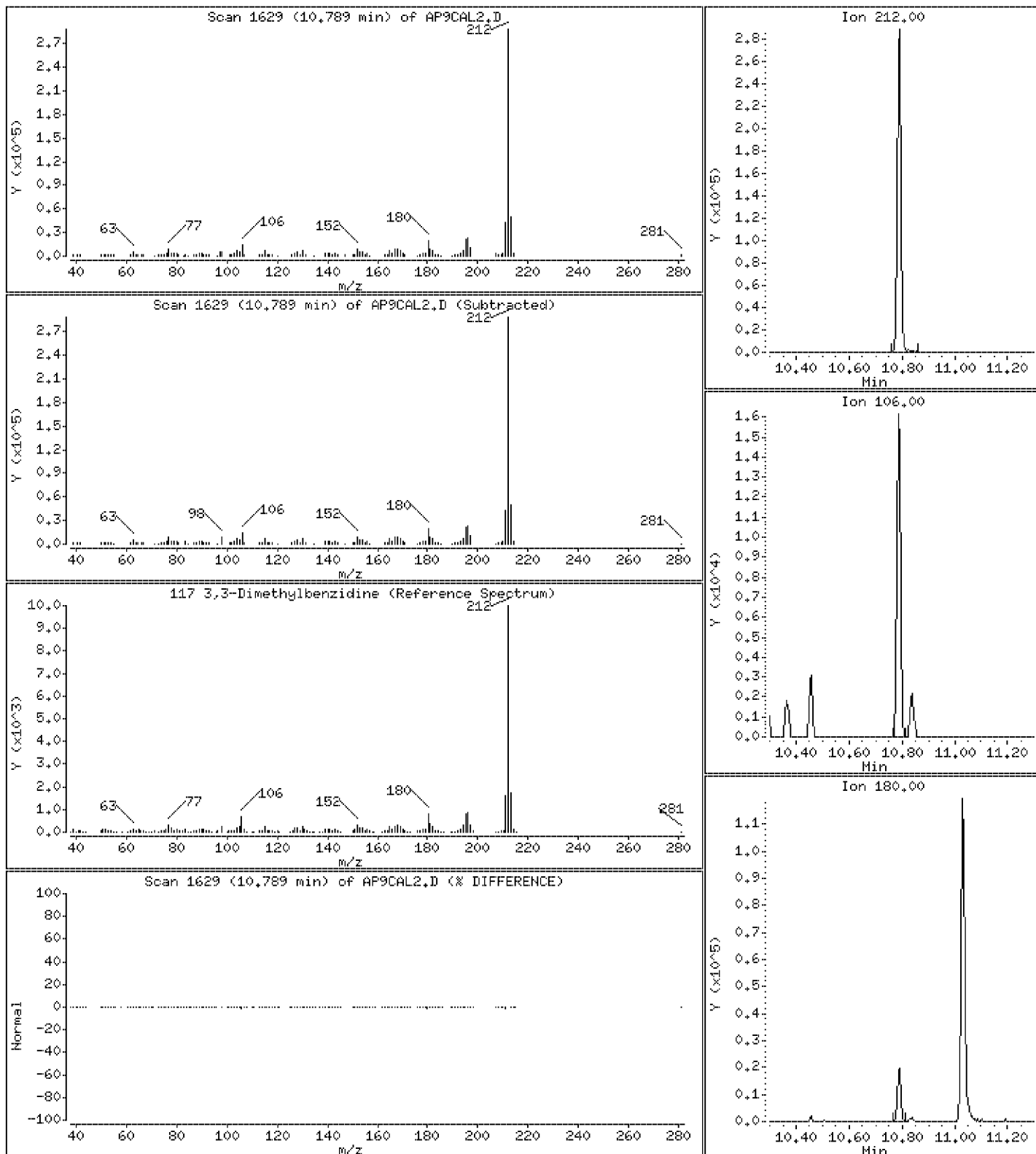
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

117 3,3-Dimethylbenzidine

Concentration: 9.8 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

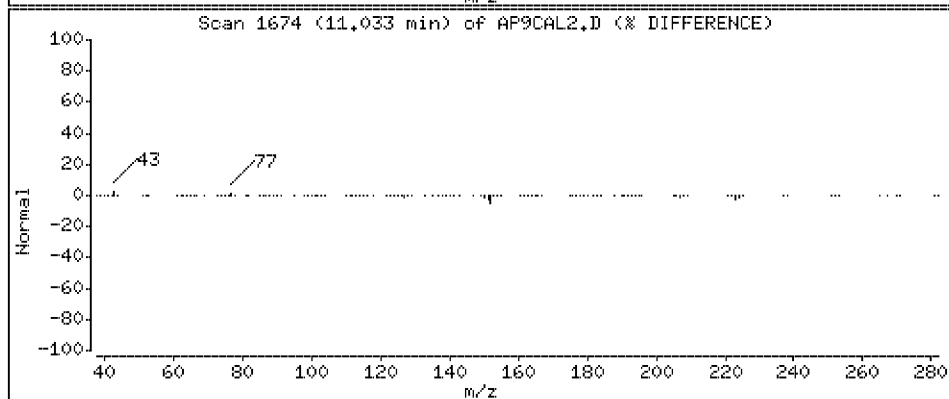
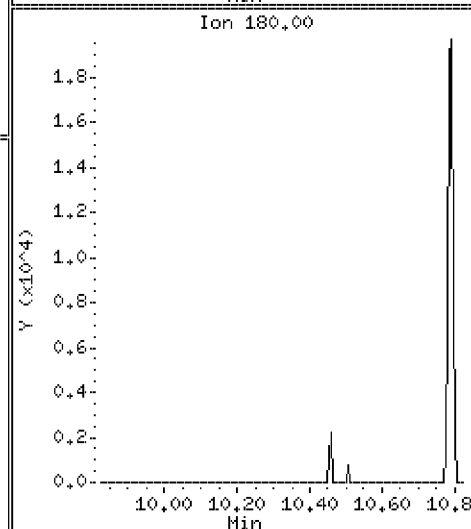
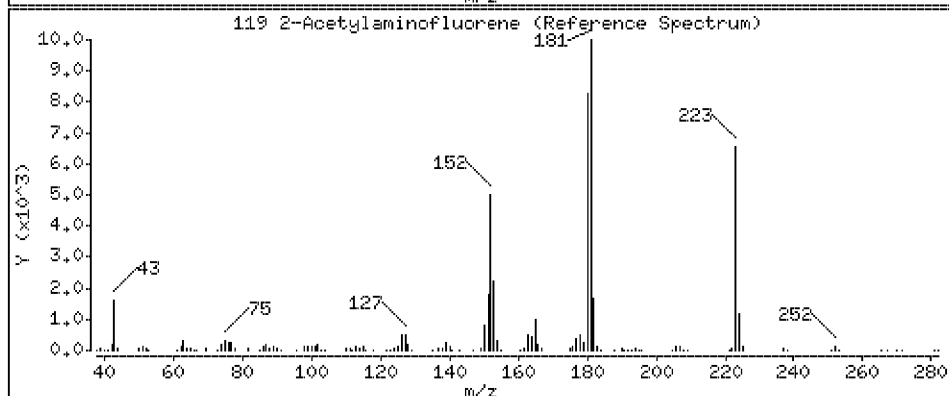
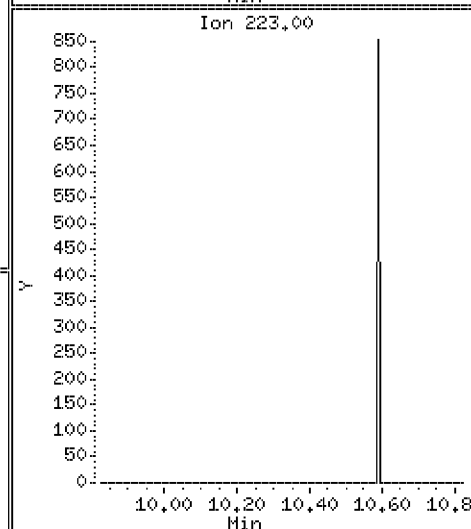
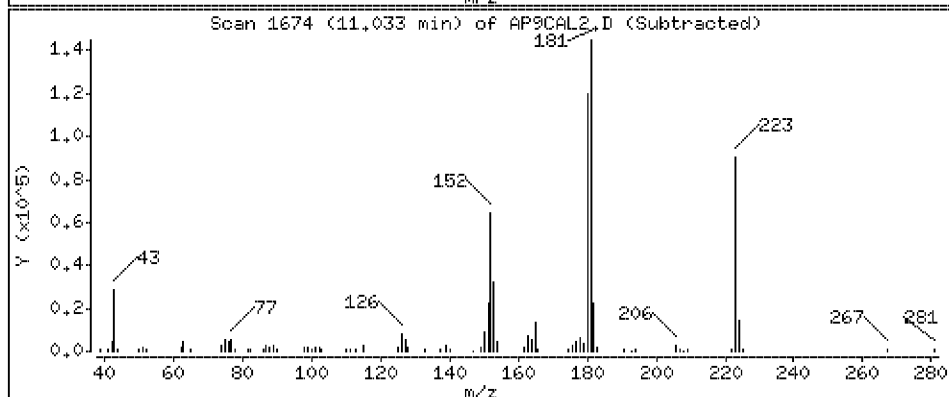
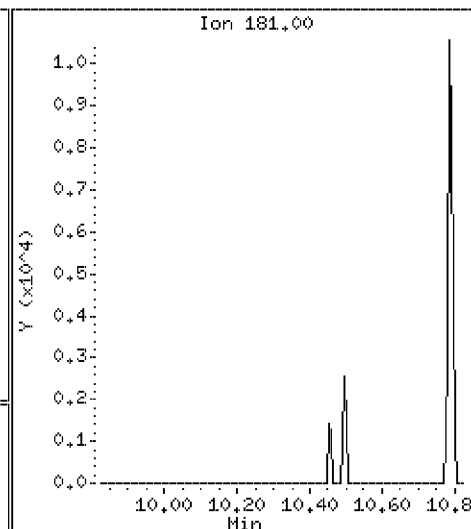
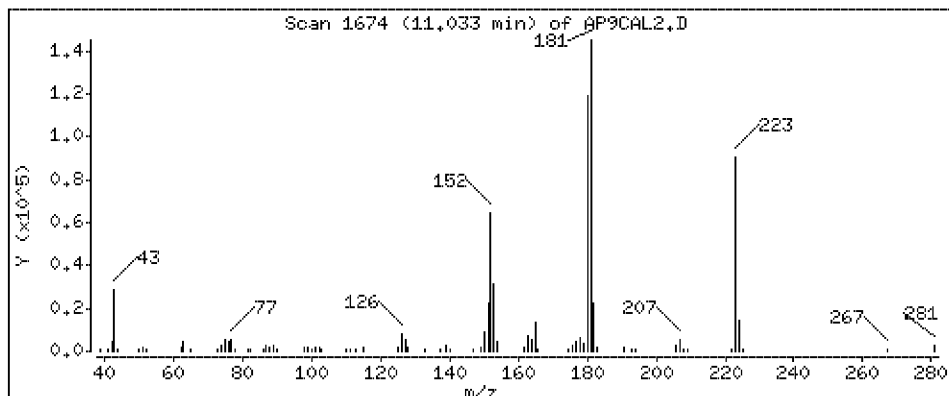
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

119 2-Acetylaminofluorene

Concentration: 8.6 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

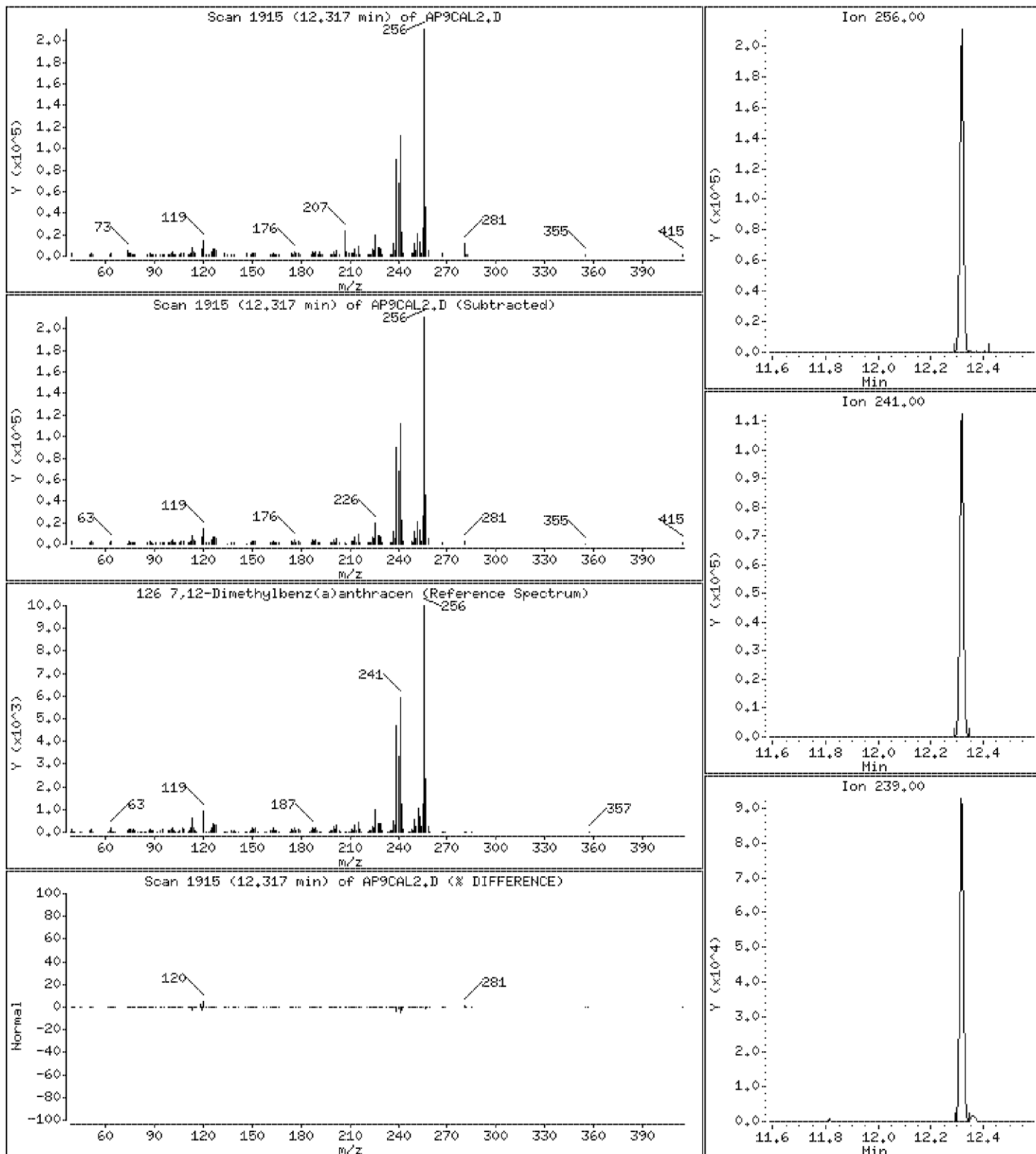
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

126 7,12-Dimethylbenz(a)anthracen

Concentration: 8.8 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

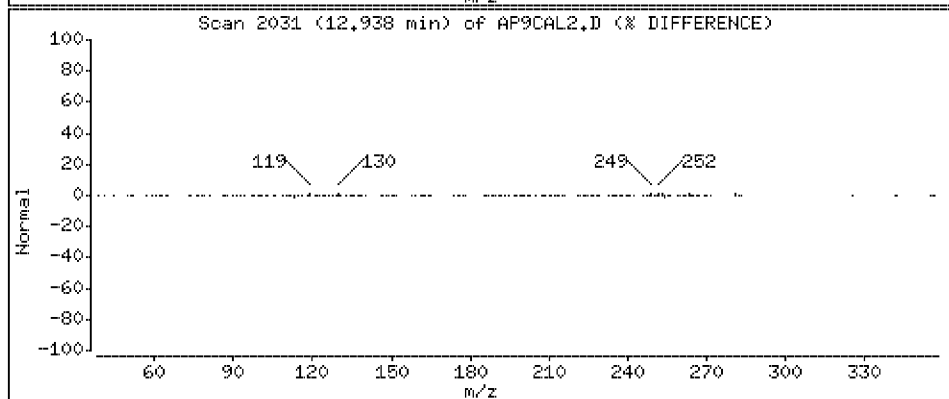
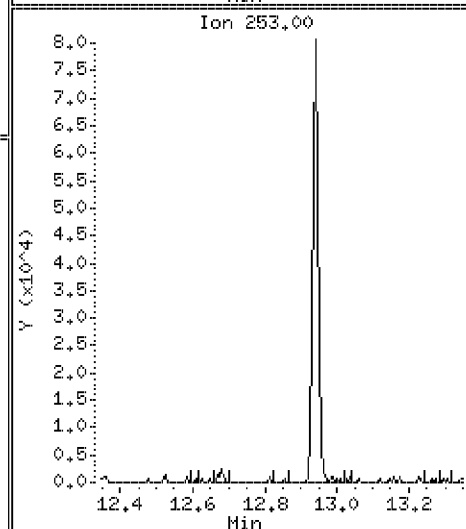
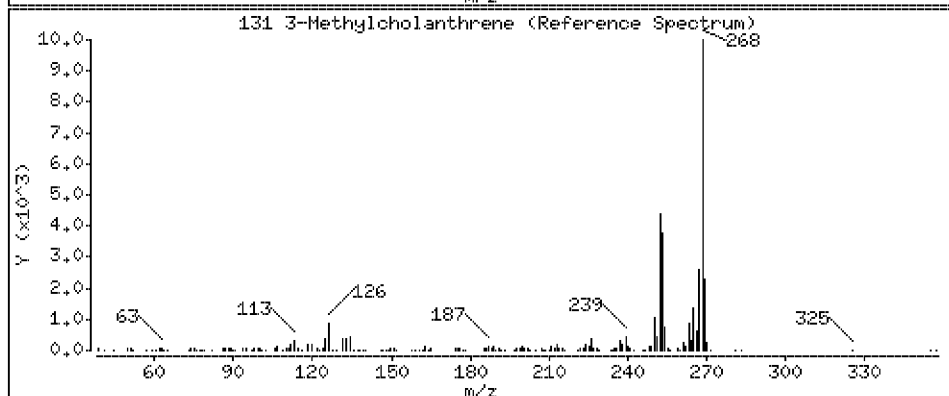
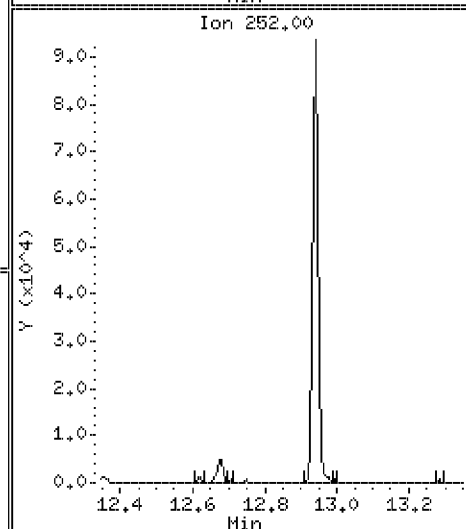
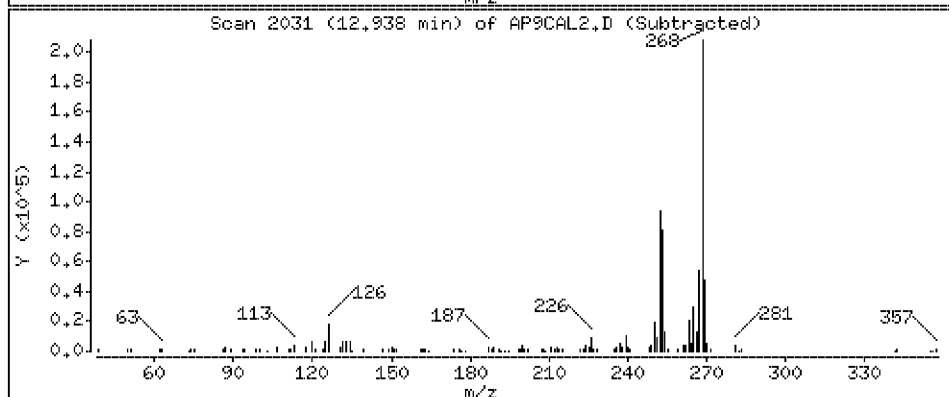
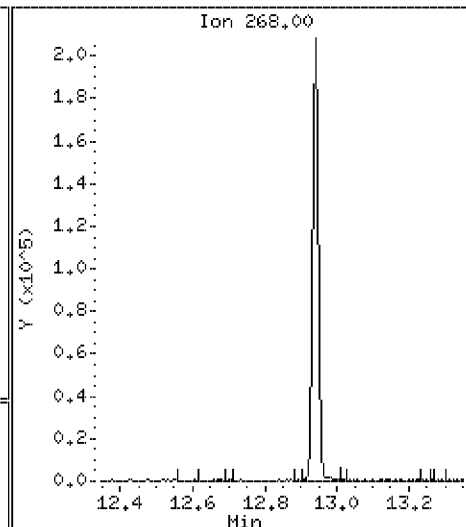
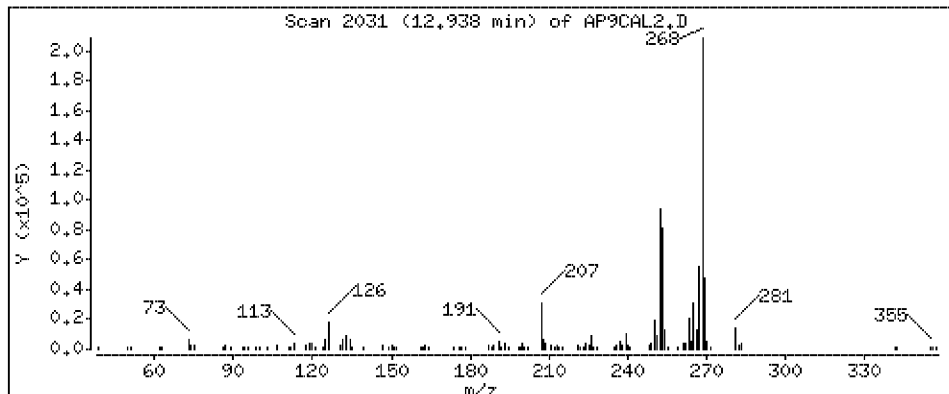
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

131 3-Methylcholanthrene

Concentration: 9.0 ug/l



Date : 23-APR-2012 19:04

Client ID: AP9CAL2

Instrument: smsd03.i

Sample Info: 45960

Purge Volume: 1000.0

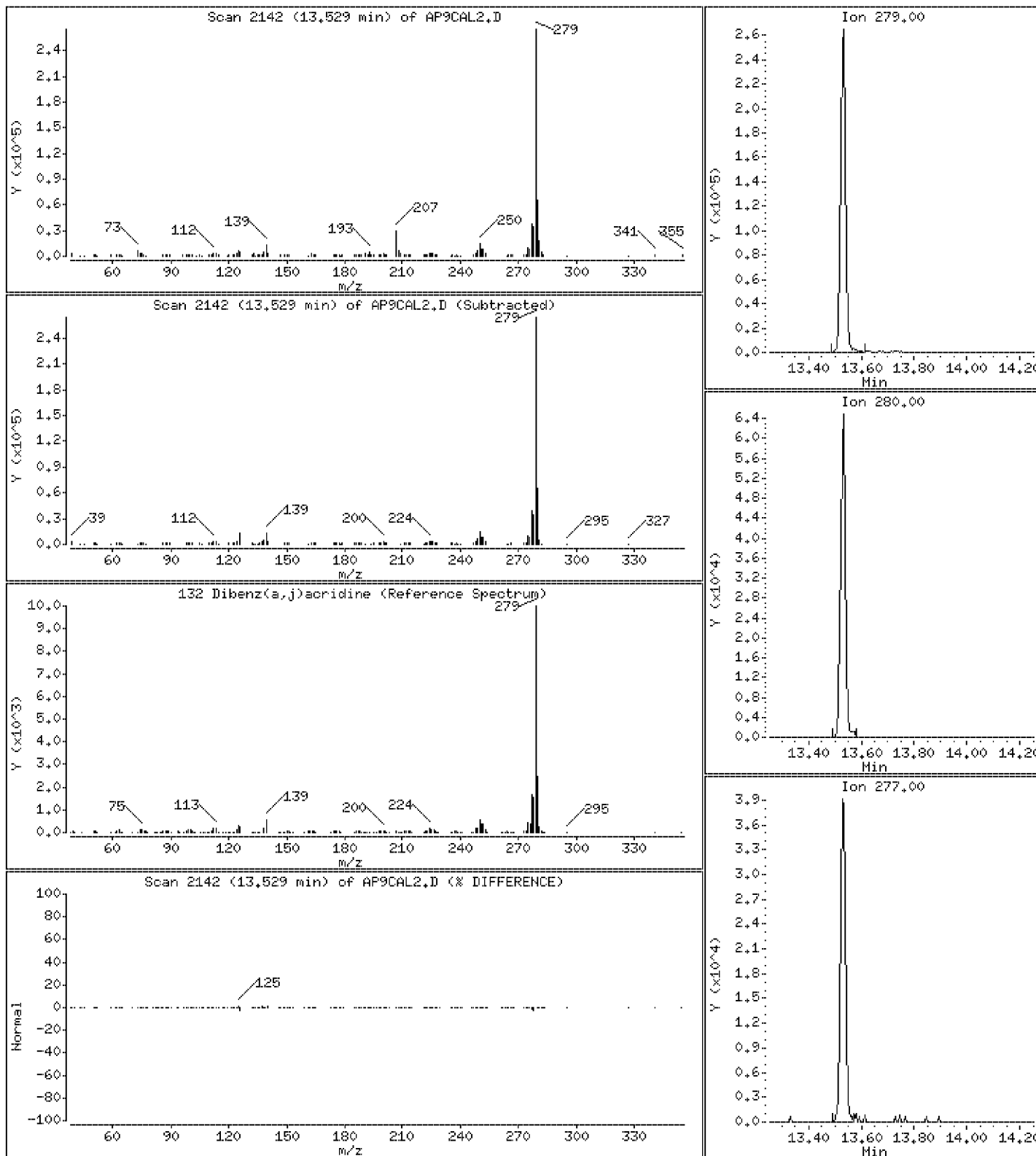
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

132 Dibenz(a,j)acridine

Concentration: 9.4 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3042312.b\AP9CAL1.D
 Lab Smp Id: 45961 Client Smp ID: AP9CAL1
 Inj Date : 23-APR-2012 19:28 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 45961
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270bcs.m
 Meth Date : 25-Apr-2012 09:57 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 17:53 Cal File: AP9CAL5.D
 Als bottle: 24 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ap9cal.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
3 2- Picoline CAS #: 109-06-8									
2.943	3.382	(0.662)	93	38755	4.00000	3.9	70.00- 130.00	100.00	
2.943	3.382	(0.662)	66	19025			46.98- 106.98	49.09	
2.944	3.382	(0.662)	92	8740			941.44-1001.44	22.55	
4 N-Nitrosomethylethylamine CAS #: 10595-95-6									
3.005	3.005	(0.676)	88	15407	4.00000	3.6	80.00- 120.00	100.00	
3.010	3.005	(0.677)	43	7759			16.66- 76.66	50.36	
3.010	3.005	(0.677)	42	17564			75.28- 135.28	114.00	
5 Methyl Methanesulfonate CAS #: 66-27-3									
3.240	3.383	(0.729)	80	27725	4.00000	4.0	70.00- 130.00	100.00	
3.240	3.383	(0.729)	79	16218			41.30- 101.30	58.50	
3.240	3.383	(0.729)	65	7104			390.98- 450.98	25.62	
7 N-Nitrosodiethylamine CAS #: 55-18-5									
3.554	3.383	(0.799)	102	14452	4.00000	3.5	70.00- 130.00	100.00	
3.552	3.383	(0.799)	42	10406			4947.35-5007.35	72.00	
3.554	3.383	(0.799)	57	6533			172953.97-173013.97	45.20	
8 Ethyl Methanesulfonate CAS #: 62-50-0									
3.788	4.446	(0.852)	79	26633	4.00000	3.7	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	
8 Ethyl Methanesulfonate (continued)									
3.789	4.446	(0.852)	109	15104			103.08- 163.08	56.71	
3.789	4.446	(0.852)	97	4542			71.09- 131.09	17.05	

12 Pentachloroethane CAS #: 76-01-7									
4.206	4.207	(0.946)	167	15510	4.00000	3.8	80.00- 120.00	100.00	
4.207	4.207	(0.946)	117	10773			42.54- 102.54	69.46	
4.205	4.207	(0.946)	130	6213			11.81- 71.81	40.06	

* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.446	4.448	(1.000)	152	269719	40.0000		80.00- 120.00	100.00	
4.446	4.448	(1.000)	115	177494			32.20- 92.20	65.81	
4.446	4.448	(1.000)	150	409240			139.77- 199.77	151.73	

24 N-Nitrosopyrrolidine CAS #: 930-55-2									
4.781	4.944	(1.075)	100	14880	4.00000	3.4	70.00- 130.00	100.00	
4.779	4.944	(1.075)	41	10816			349.38- 409.38	72.69	
4.779	4.944	(1.075)	42	9274			7836.39-7896.39	62.33	

25 Acetophenone CAS #: 98-86-2									
4.798	4.807	(0.856)	105	50175	4.00000	3.9	70.00- 130.00	100.00	
4.797	4.807	(0.856)	77	48119			4410.01-4470.01	95.90	
4.797	4.807	(0.856)	51	13115			1262.06-1322.06	26.14	

27 N-Nitrosomorpholine CAS #: 59-89-2									
4.811	4.446	(1.082)	56	16314	4.00000	3.6	70.00- 130.00	100.00	
4.811	4.446	(1.082)	116	5588			116.25- 176.25	34.25	
4.812	4.446	(1.082)	86	11731			171.65- 231.65	71.91	

29 o-Toluidine CAS #: 95-53-4									
4.830	4.814	(1.086)	106	51399	4.00000	3.6	70.00- 130.00	100.00	
4.830	4.814	(1.086)	77	14084			36058.41-36118.41	27.40	
4.830	4.814	(1.086)	107	39609			76505.71-76565.71	77.06	

33 N-Nitrosopiperidine CAS #: 100-75-4									
5.095	4.798	(0.909)	114	14320	4.00000	3.6	70.00- 130.00	100.00	
5.094	4.798	(0.909)	42	15836			3934.42-3994.42	110.59	
5.094	4.798	(0.909)	55	8218			491.51- 551.51	57.39	

37 o,o,o-Triethylphosphorothioate CAS #: 126-68-1									
5.335	5.338	(1.200)	198	23573	4.00000	3.6	80.00- 120.00	100.00	
5.335	5.338	(1.200)	97	15769			34.93- 94.93	66.89	
5.334	5.338	(1.200)	65	12353			24.79- 84.79	52.40	

39 a,a-Dimethylphenethylamine CAS #: 122-09-8									
5.440	5.370	(0.970)	58	45752	4.00000	3.3	70.00- 130.00	100.00(M)	
5.443	5.370	(0.971)	91	14706			64.34- 124.34	32.14	
5.441	5.370	(0.971)	65	8877			12409.05-12469.05	19.40	

* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.607	5.610	(1.000)	136	907937	40.0000		80.00- 120.00	100.00	
5.606	5.610	(1.000)	68	47762			0.00- 35.51	5.26	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
====	=====	=====	=====	=====	=====	=====	=====	=====
46 2,6-Dichlorophenol			CAS #: 87-65-0					
5.688	5.691	(1.015)	162	26927	4.00000	3.5	70.00- 130.00	100.00
5.689	5.691	(1.015)	63	20450			8424.37-8484.37	75.95
5.688	5.691	(1.015)	98	7534			164.07- 224.07	27.98

47 Hexachloropropene			CAS #: 1888-71-7					
5.712	5.712	(1.019)	213	37025	4.00000	3.7	80.00- 120.00	100.00
5.711	5.712	(1.019)	215	24448			34.61- 94.61	66.03
5.709	5.712	(1.018)	117	7117			0.00- 50.39	19.22

49 N-Nitrosodi-n-butylamine			CAS #: 924-16-3					
5.989	6.287	(1.068)	84	25434	4.00000	3.5	70.00- 130.00	100.00
5.989	6.287	(1.068)	57	14093			1288.18-1348.18	55.41
5.989	6.287	(1.068)	41	12747			66.46- 126.46	50.12

52 Isosafrole			CAS #: 120-58-1					
6.199	6.619	(1.106)	162	25628	4.00000	3.5	70.00- 130.00	100.00
6.198	6.619	(1.106)	104	19504			0.00- 46.22	76.10
6.199	6.619	(1.106)	131	12257			37.69- 97.69	47.83

56 1,2,4,5-Tetrachlorobenzene			CAS #: 95-94-3					
6.450	6.452	(0.883)	216	44335	4.00000	3.7	80.00- 120.00	100.00
6.450	6.452	(0.883)	214	35105			48.19- 108.19	79.18
6.449	6.452	(0.883)	108	7459			0.00- 47.81	16.82

60 Safrole			CAS #: 94-59-7					
6.701	6.619	(1.195)	162	21990	4.00000	3.2	70.00- 130.00	100.00
6.701	6.619	(1.195)	104	17397			0.00- 46.22	79.11
6.701	6.619	(1.195)	77	11651			0.00- 57.00	52.98

64 1,4-Naphthoquinone			CAS #: 130-15-4					
6.929	6.642	(0.949)	158	23220	4.00000	3.4	70.00- 130.00	100.00
6.928	6.642	(0.949)	102	19358			523.56- 583.56	83.37
6.931	6.642	(0.949)	130	8782			0.00- 46.52	37.82

66 1,3-Dinitrobenzene			CAS #: 99-65-0					
7.066	7.368	(0.968)	168	10744	4.00000	3.4	70.00- 130.00	100.00
7.065	7.368	(0.968)	75	15594			98.40- 158.40	145.14
7.064	7.368	(0.967)	50	6908			177.84- 237.84	64.30

* 70 Acenaphthene-d10			CAS #: 15067-26-2					
7.302	7.305	(1.000)	164	632427	40.0000		80.00- 120.00	100.00
7.302	7.305	(1.000)	162	608924			64.73- 124.73	96.28
7.302	7.305	(1.000)	160	284330			12.46- 72.46	44.96

73 Pentachlorobenzene			CAS #: 608-93-5					
7.465	7.467	(1.022)	250	42550	4.00000	3.6	80.00- 120.00	100.00
7.465	7.467	(1.022)	252	27191			34.92- 94.92	63.90
7.463	7.467	(1.022)	108	12501			0.00- 56.94	29.38

77 1-Naphthylamine			CAS #: 134-32-7					
7.578	7.837	(1.038)	143	40974	4.00000	3.7	70.00- 130.00	100.00
7.579	7.837	(1.038)	115	23260			7143.21-7203.21	56.77

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====
77 1-Naphthylamine (continued)								
7.579	7.837	(1.038)	89	4234			2068.79-2128.79	10.33

78 2,3,4,6-Tetrachlorophenol CAS #: 58-90-2								
7.631	7.634	(1.045)	232	21146	4.00000	3.3	70.00- 130.00	100.00
7.629	7.634	(1.045)	168	4566			42.05- 102.05	21.59
7.630	7.634	(1.045)	131	8047			9.10- 69.10	38.05

79 2-Naphthylamine CAS #: 91-59-8								
7.656	7.837	(1.048)	143	50945	4.00000	3.5	70.00- 130.00	100.00
7.656	7.837	(1.048)	115	33006			7143.21-7203.21	64.79
7.655	7.837	(1.048)	116	11068			667.96- 727.96	21.73

83 5-Nitro-ortho-toluidine CAS #: 99-55-8								
7.850	7.896	(1.075)	152	19902	4.00000	3.5	70.00- 130.00	100.00
7.850	7.896	(1.075)	106	13671			505.60- 565.60	68.69
7.850	7.896	(1.075)	77	23734			735.48- 795.48	119.25

90 1,3,5-Trinitrobenzene CAS #: 99-35-4								
8.211	8.152	(1.125)	75	39018	4.00000	5.8	70.00- 130.00	100.00
8.210	8.152	(1.124)	74	23904			50.14- 110.14	61.26
8.211	8.152	(1.125)	213	15845			40.88- 100.88	40.61

89 Diallate CAS #: 2303-16-4								
8.229	8.081	(1.127)	86	25817	4.00000	3.3	70.00- 130.00	100.00(M)
8.229	8.081	(1.127)	43	27472			0.00- 38.70	106.41
8.234	8.081	(1.128)	234	18977			0.00- 39.00	73.51

92 Phenacetin CAS #: 62-44-2								
8.251	8.384	(0.942)	109	33846	4.00000	4.0	70.00- 130.00	100.00
8.251	8.384	(0.942)	108	31292			77.38- 137.38	92.45
8.252	8.384	(0.942)	179	19721			133.19- 193.19	58.27

91 p-Phenylenediamine CAS #: 106-50-3								
8.251	8.082	(0.942)	108	31292	4.00000	3.3	70.00- 130.00	100.00
8.251	8.082	(0.942)	80	9414			1858.68-1918.68	30.08
8.251	8.082	(0.942)	53	4392			5306.16-5366.16	14.04

97 Pentachloronitrobenzene CAS #: 82-68-8								
8.586	8.589	(0.980)	237	14934	4.00000	3.4	80.00- 120.00	100.00
8.587	8.589	(0.980)	295	6839			7.36- 67.36	45.79
8.585	8.589	(0.980)	142	10201			42.99- 102.99	68.31

98 4-Aminobiphenyl CAS #: 92-67-1								
8.571	8.584	(0.979)	169	79803	4.00000	3.8	70.00- 130.00	100.00
8.571	8.584	(0.979)	168	15420			0.00- 49.63	19.32
8.570	8.584	(0.979)	115	10154			0.00- 40.98	12.72

99 Pronamide CAS #: 23950-58-5								
8.626	8.781	(0.985)	173	38759	4.00000	3.7	70.00- 130.00	100.00
8.626	8.781	(0.985)	175	23093			2051.90-2111.90	59.58
8.625	8.781	(0.985)	145	13231			63.94- 123.94	34.14

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	====	=====	=====	=====	=====	=====	
* 100 Phenanthrene-d10					CAS #: 1517-22-2				
8.758	8.761	(1.000)	188	1229245	40.0000		80.00- 120.00	100.00	
8.757	8.761	(1.000)	94	70892			0.00- 36.35	5.77	
8.757	8.761	(1.000)	80	95172			0.00- 37.82	7.74	
-----					-----				
102 Dinoseb					CAS #: 88-85-7				
8.750	8.753	(0.999)	211	15093	4.00000	5.3	80.00- 120.00	100.00	
8.750	8.753	(0.999)	163	5170			7.77- 67.77	34.25	
8.751	8.753	(0.999)	117	3516			0.00- 52.05	23.30	
-----					-----				
106 4-Nitroquinoline-1-oxide					CAS #: 56-57-5				
9.541	9.334	(1.089)	174	928	4.00000	3.6	70.00- 130.00	100.00(Q)	
9.539	9.334	(1.089)	128	3309			429.24- 489.24	356.57	
9.540	9.334	(1.089)	101	4237			988.96-1048.96	456.57	
-----					-----				
107 Methapyrilene					CAS #: 91-80-5				
9.607	10.322	(1.097)	97	1351	4.00000	3.3	70.00- 130.00	100.00(M)	
9.607	10.322	(1.097)	58	979			11.52- 71.52	72.46	
9.610	10.322	(1.097)	191	0	0.00	0.00	0.00- 52.18	0.00	
-----					-----				
108 Isodrin					CAS #: 465-73-6				
9.798	10.279	(1.119)	193	14297	4.00000	3.8	70.00- 130.00	100.00	
9.798	10.279	(1.119)	66	13340			17952.44-18012.44	93.31	
9.800	10.279	(1.119)	195	11918			1135.23-1195.23	83.36	
-----					-----				
113 Aramite					CAS #: 140-57-8				
10.366	10.370	(0.913)	185	12716	4.00000	3.4	80.00- 120.00	100.00(M)	
10.291	10.370	(0.907)	191	6323			21.78- 81.78	49.72	
10.296	10.370	(0.907)	319	5285			6.67- 66.67	41.56	
-----					-----				
114 p-Dimethylamino azobenzene					CAS #: 60-11-7				
10.457	10.323	(0.921)	225	31488	4.00000	3.4	70.00- 130.00	100.00	
10.456	10.323	(0.921)	120	26101			99.50- 159.50	82.89	
10.455	10.323	(0.921)	77	27811			9.48- 69.48	88.32	
-----					-----				
115 Chlorobenzilate					CAS #: 510-15-6				
10.500	10.503	(0.925)	251	50125	4.00000	3.5	80.00- 120.00	100.00	
10.500	10.503	(0.925)	253	31027			35.78- 95.78	61.90	
10.499	10.503	(0.925)	139	41577			60.72- 120.72	82.95	
-----					-----				
116 Kepone					CAS #: 143-50-0				
10.836	10.840	(0.955)	272	7252	4.00000	3.0	80.00- 120.00	100.00	
10.839	10.840	(0.955)	274	5729			51.74- 111.74	79.00	
10.839	10.840	(0.955)	237	4521			0.00- 59.52	62.34	
-----					-----				
117 3,3-Dimethylbenzidine					CAS #: 119-93-7				
10.788	10.799	(0.950)	212	104093	4.00000	3.7	70.00- 130.00	100.00	
10.789	10.799	(0.950)	106	5752			2299.94-2359.94	5.53	
10.786	10.799	(0.950)	180	6601			6.44- 66.44	6.34	
-----					-----				
119 2-Acetylaminofluorene					CAS #: 53-96-3				
11.032	10.324	(0.972)	181	50591	4.00000	3.1	70.00- 130.00	100.00	
11.033	10.324	(0.972)	223	33471			491.83- 551.83	66.16	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
119 2-Acetylaminofluorene (continued)									
11.032	10.324	(0.972)	180	42536			639.65- 699.65	84.08	

* 121 Chrysene-d12 CAS #: 1719-03-5									
11.352	11.359	(1.000)	240	1576137	40.0000		80.00- 120.00	100.00	
11.351	11.359	(1.000)	120	83473			0.00- 36.38	5.30	
11.353	11.359	(1.000)	236	422688			0.00- 57.06	26.82	

126 7,12-Dimethylbenz(a)anthracen CAS #: 57-97-6									
12.315	12.088	(0.971)	256	77306	4.00000	3.4	70.00- 130.00	100.00	
12.316	12.088	(0.971)	241	41024			77.87- 137.87	53.07	
12.316	12.088	(0.971)	239	36883			73.24- 133.24	47.71	

* 130 Perylene-d12 CAS #: 1520-96-3									
12.678	12.682	(1.000)	264	1610792	40.0000		80.00- 120.00	100.00	
12.678	12.682	(1.000)	260	391086			0.00- 54.80	24.28	
12.679	12.682	(1.000)	265	367610			0.00- 53.39	22.82	

131 3-Methylcholanthrene CAS #: 56-49-5									
12.937	12.847	(1.020)	268	90561	4.00000	3.5	70.00- 130.00	100.00	
12.938	12.847	(1.020)	252	35669			13.23- 73.23	39.39	
12.937	12.847	(1.020)	253	34866			6.61- 66.61	38.50	

132 Dibenz(a,j)acridine CAS #: 224-42-0									
13.526	13.755	(1.067)	279	135981	4.00000	3.7	70.00- 130.00	100.00	
13.527	13.755	(1.067)	280	31556			0.00- 41.79	23.21	
13.525	13.755	(1.067)	277	19040			93.47- 153.47	14.00	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
 M - Compound response manually integrated.

Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

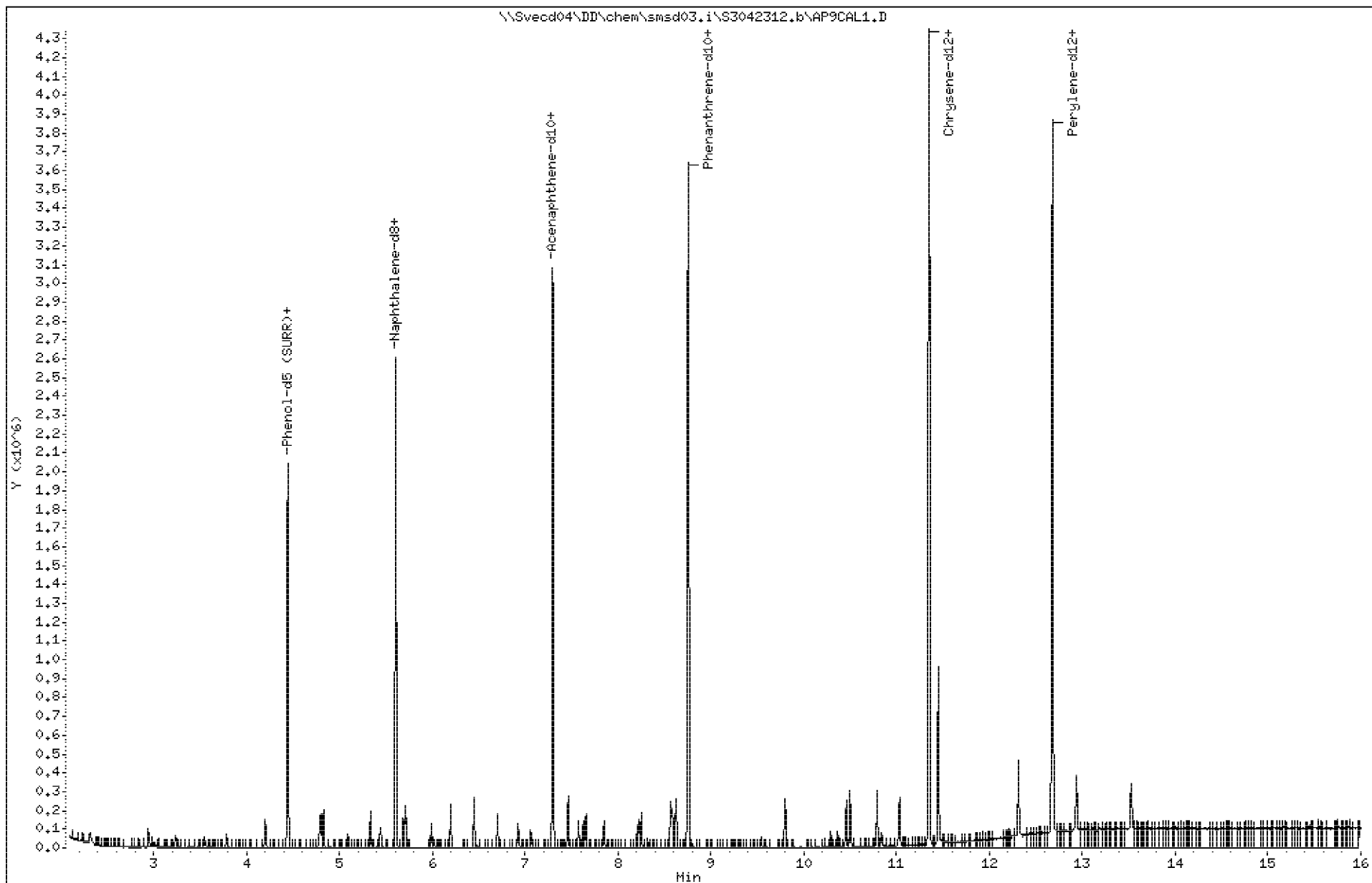
Sample Info: 45961

Operator: PEL

Purge Volume: 1000.0

Column diameter: 0.25

Column phase: HPMS-5



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

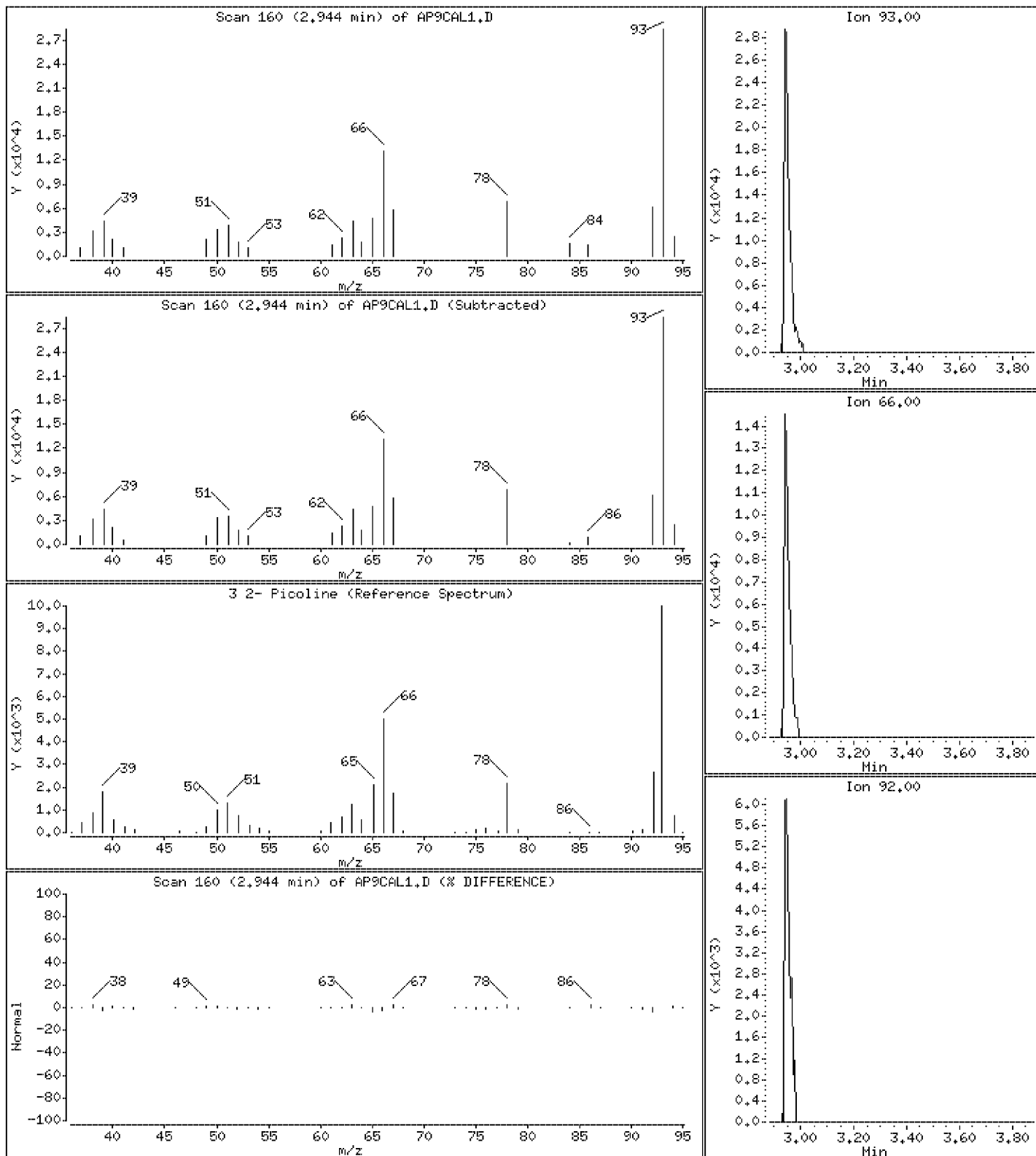
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

3 2- Picoline

Concentration: 3.9 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

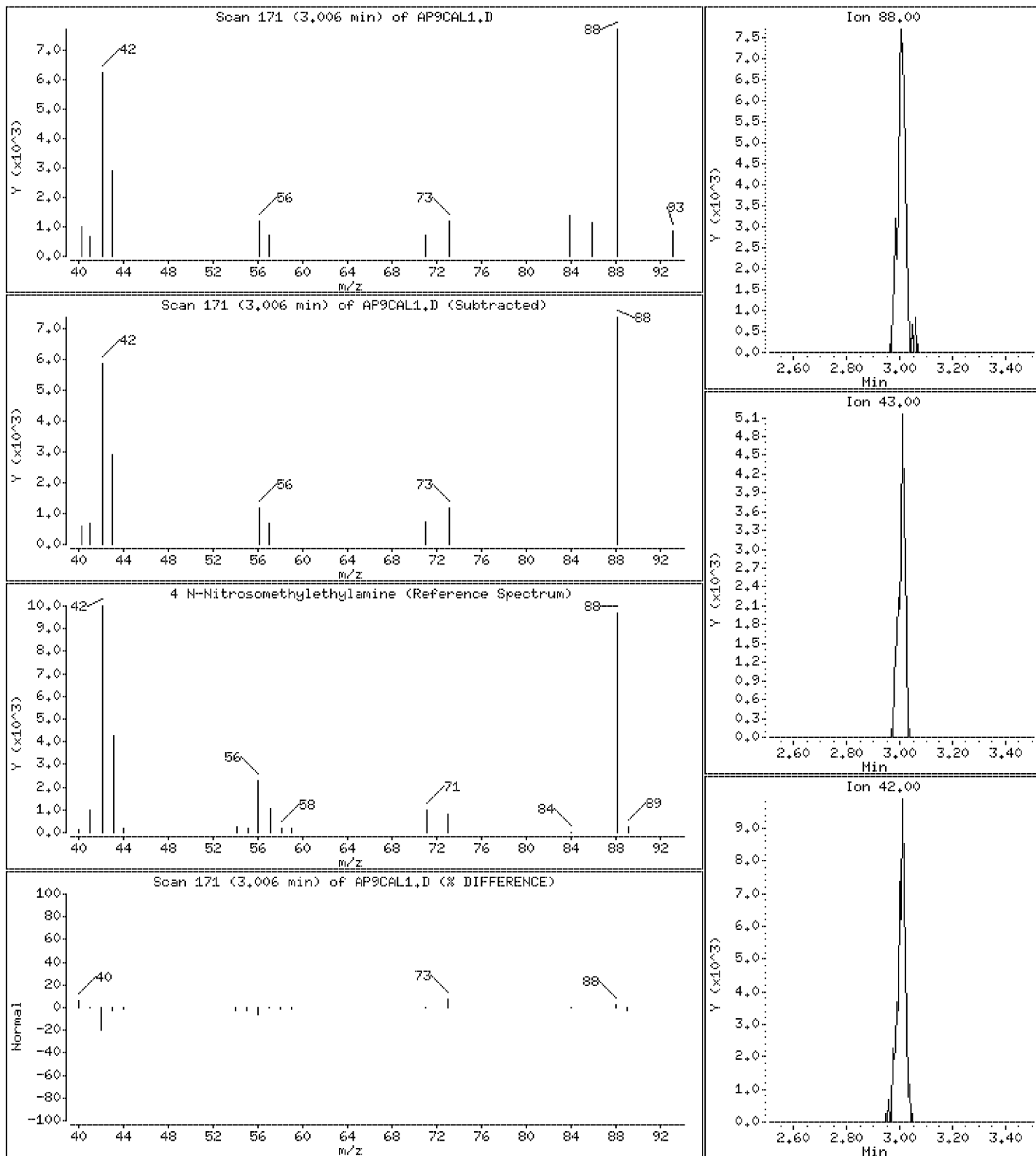
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

4 N-Nitrosomethylethylamine

Concentration: 3.6 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

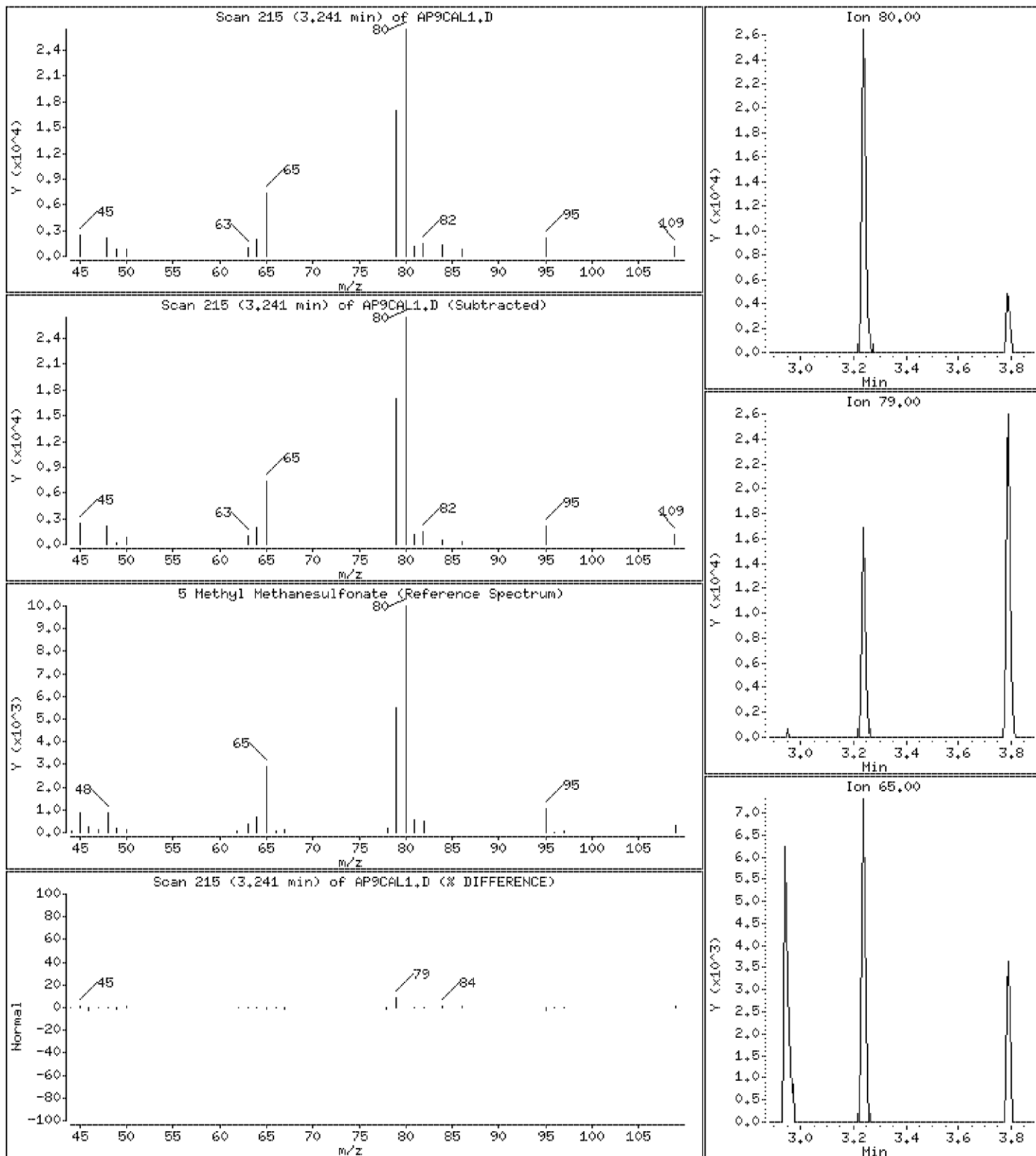
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

5 Methyl Methanesulfonate

Concentration: 4.0 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

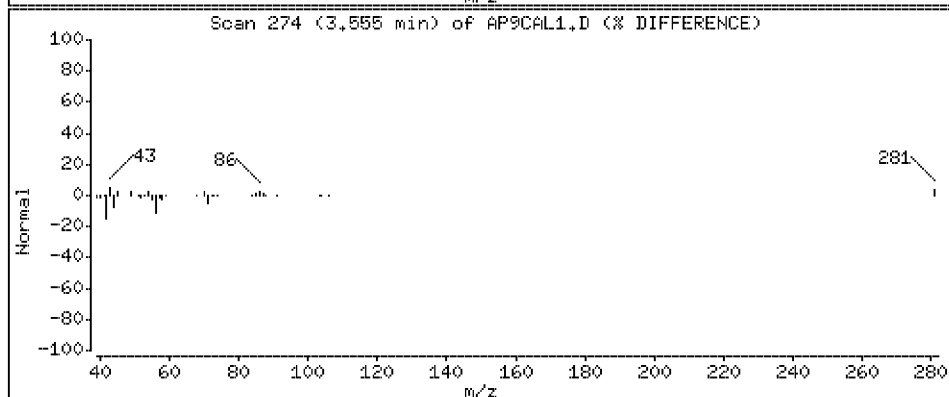
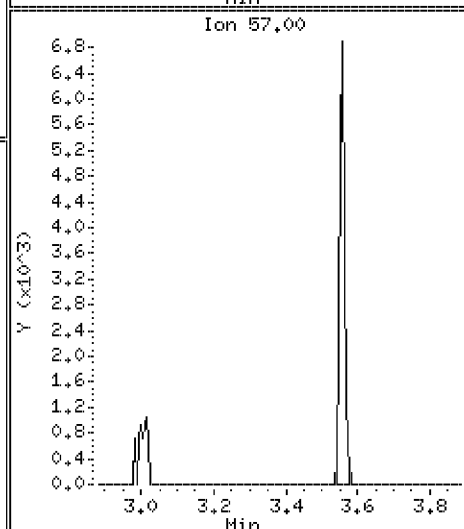
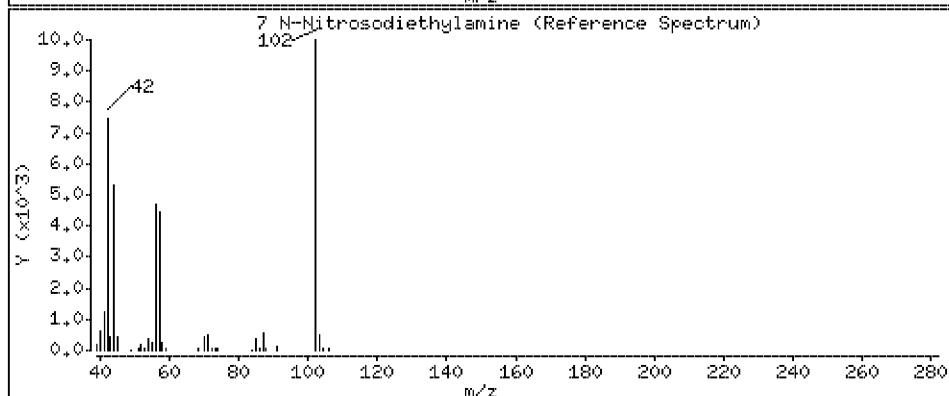
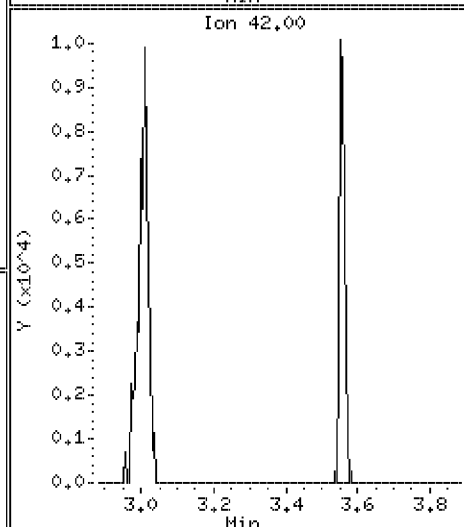
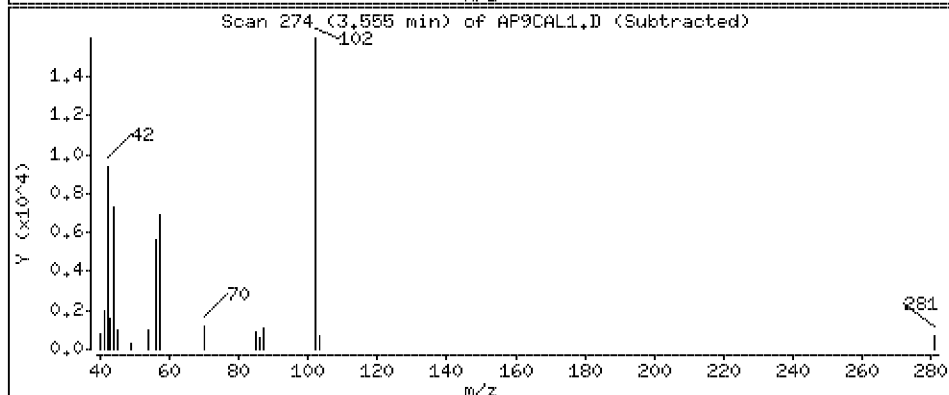
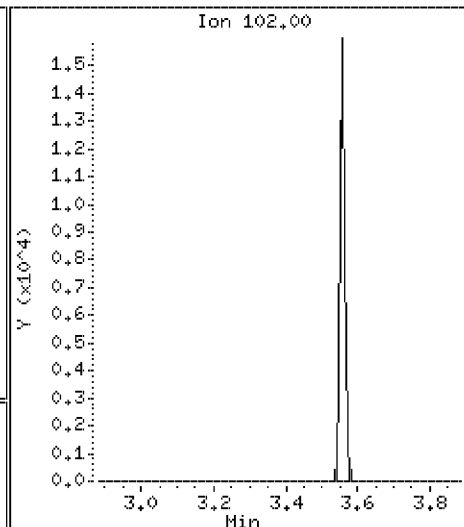
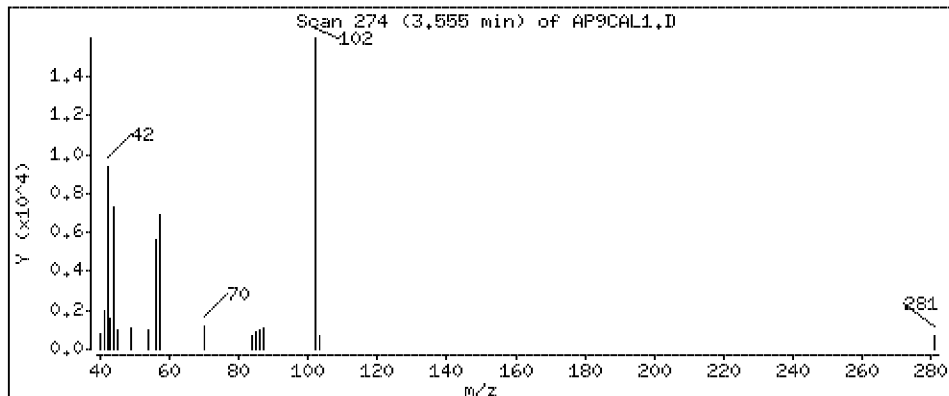
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

7 N-Nitrosodiethylamine

Concentration: 3.5 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

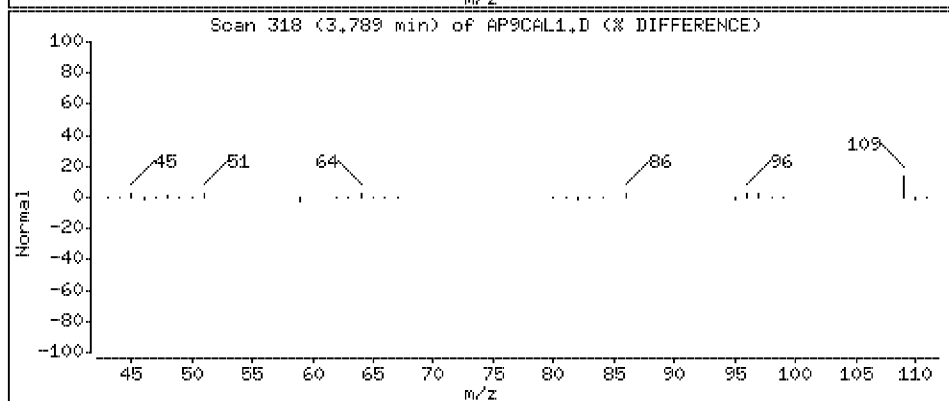
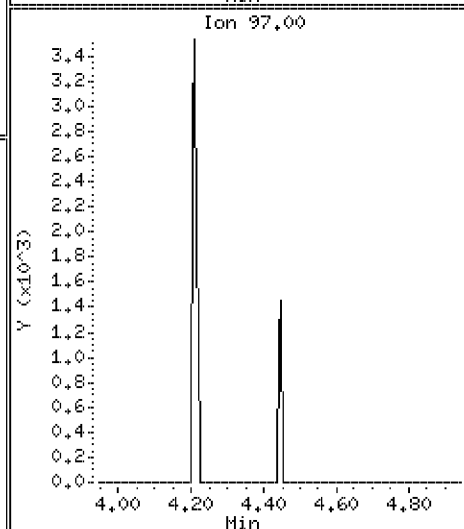
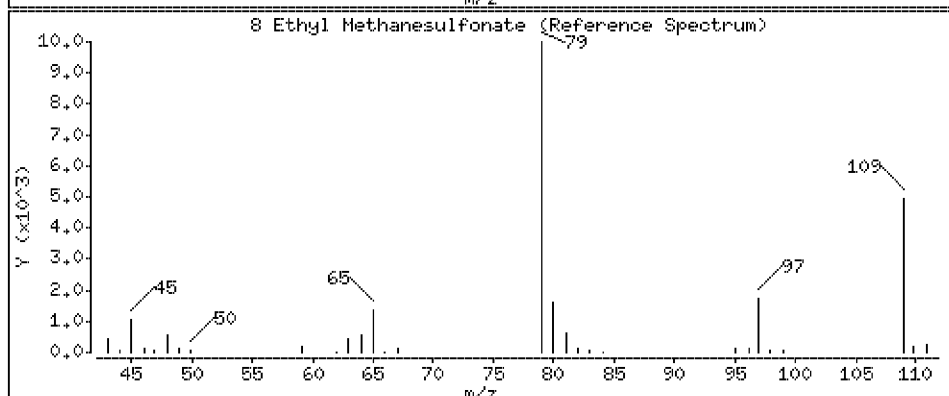
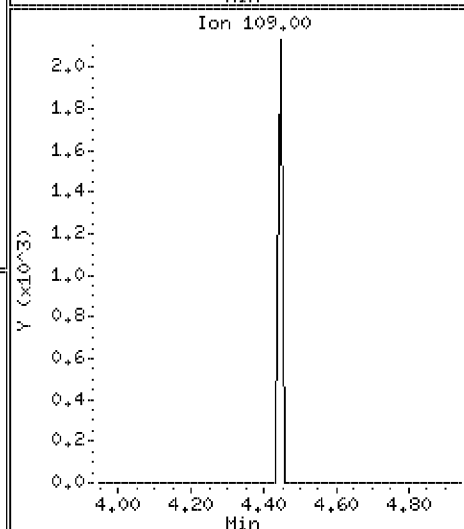
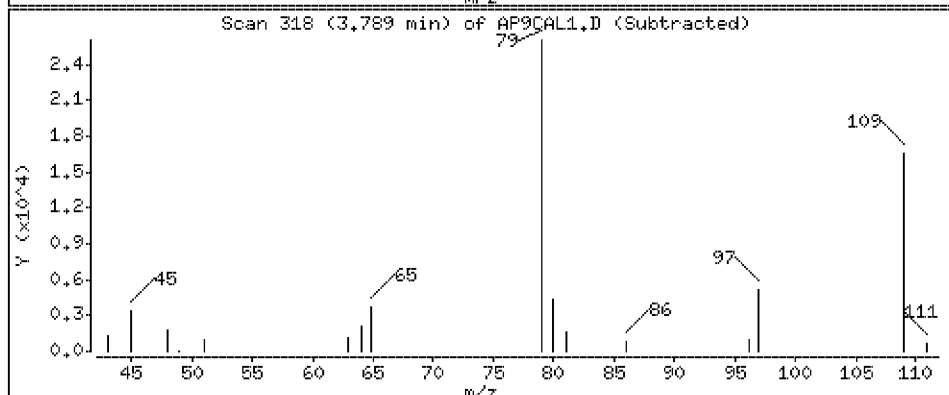
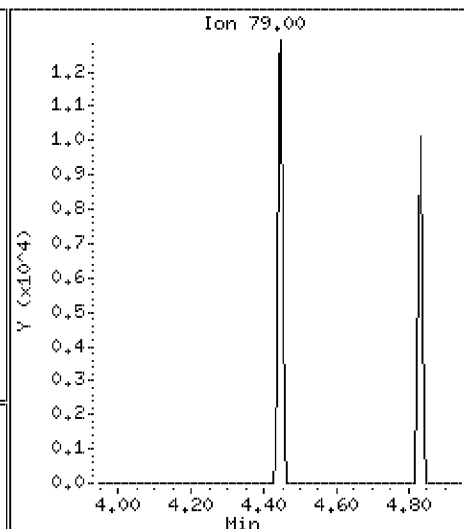
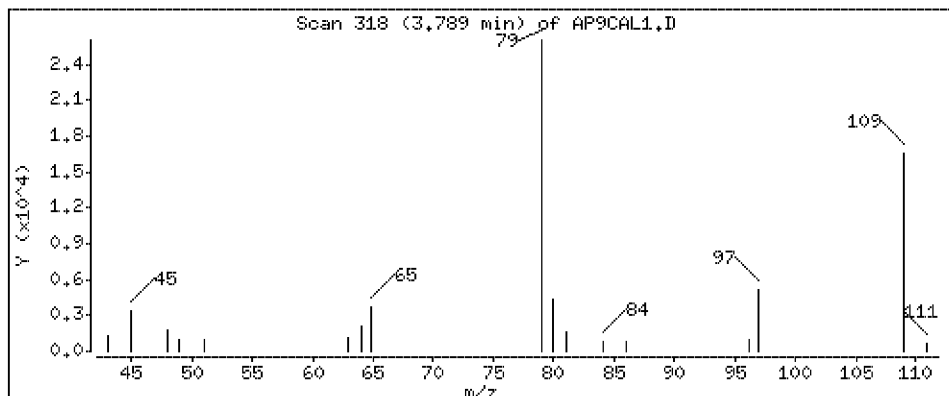
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

8 Ethyl Methanesulfonate

Concentration: 3.7 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

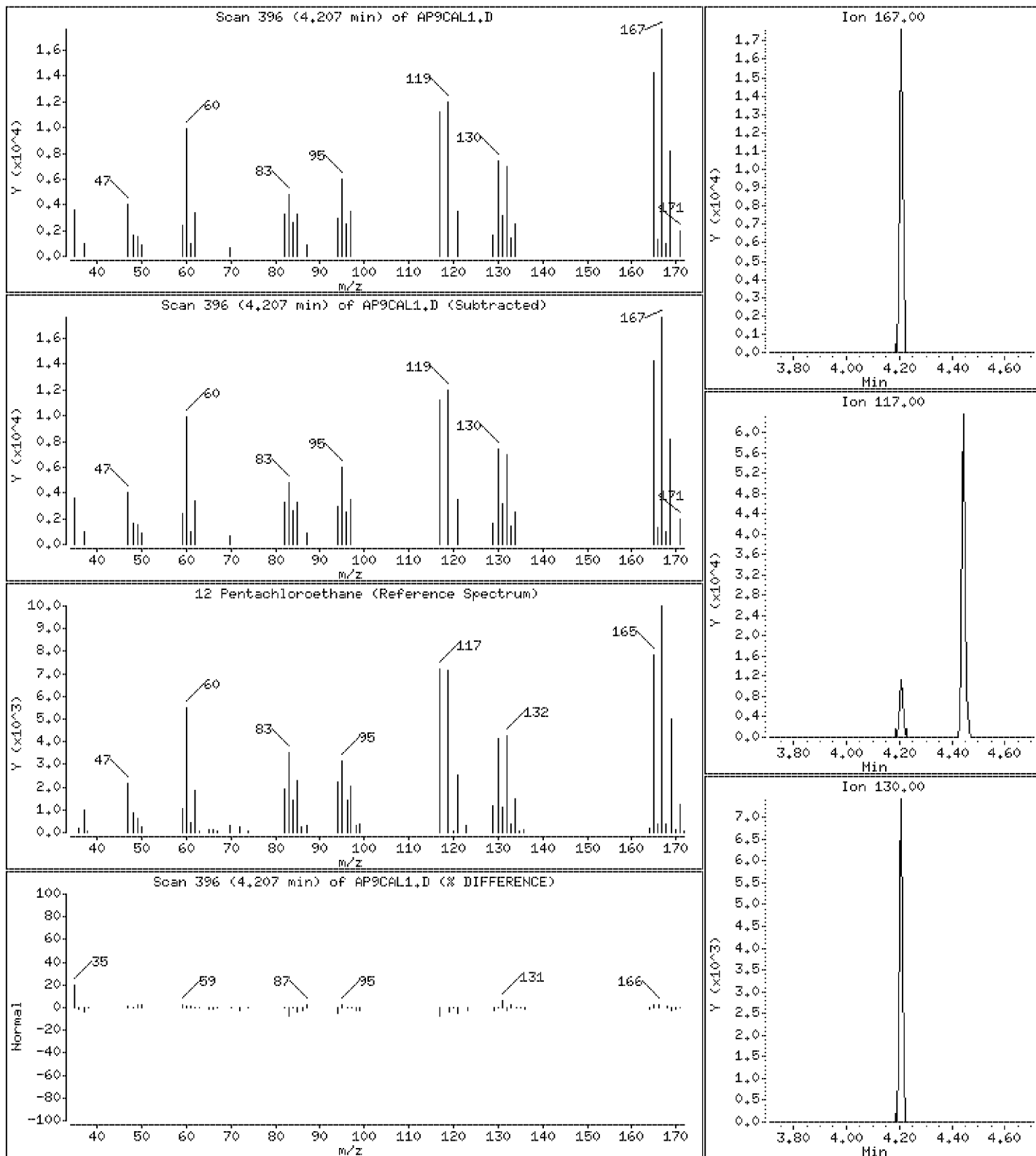
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

12 Pentachloroethane

Concentration: 3.8 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

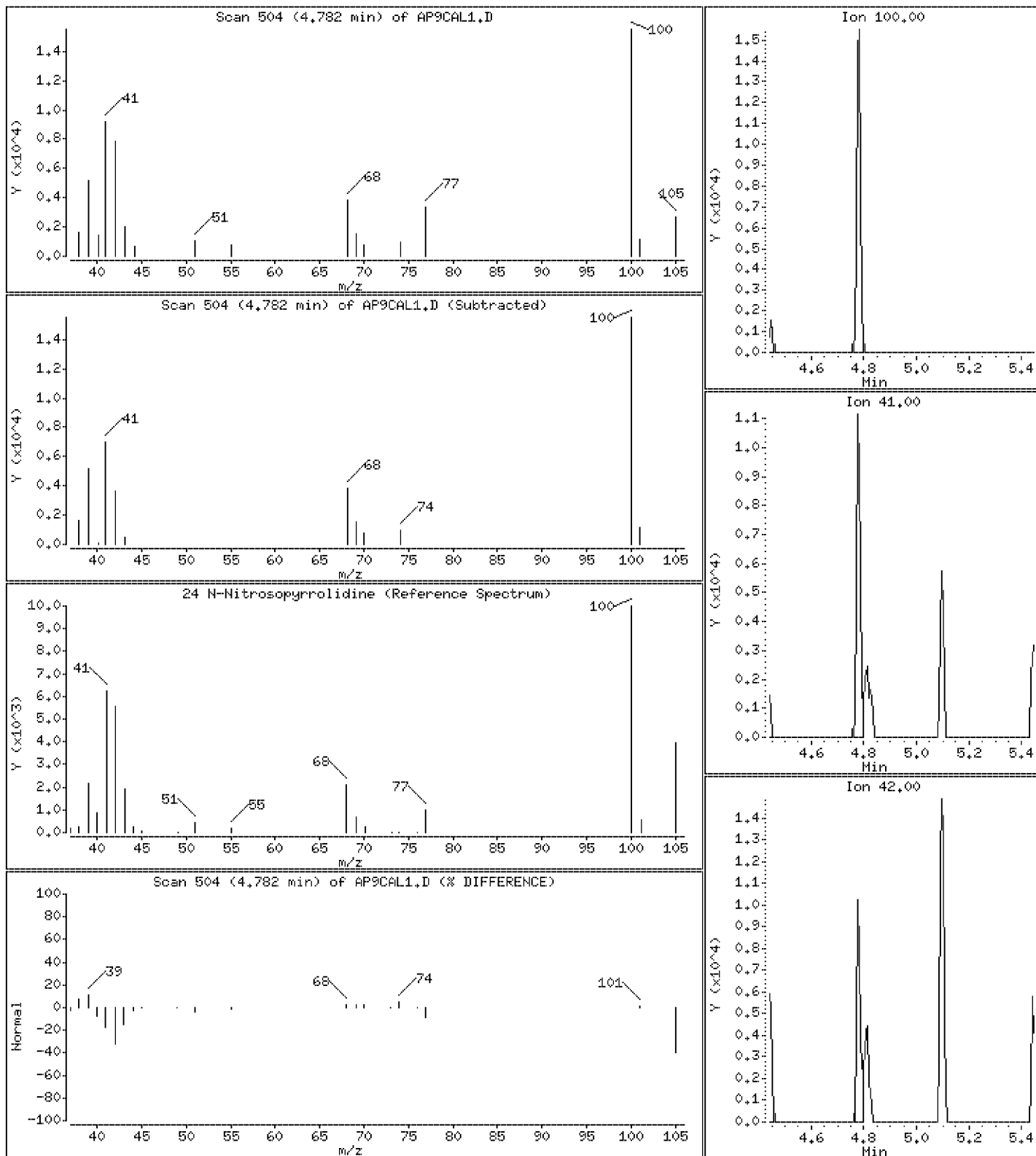
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

24 N-Nitrosopyrrolidine

Concentration: 3.4 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

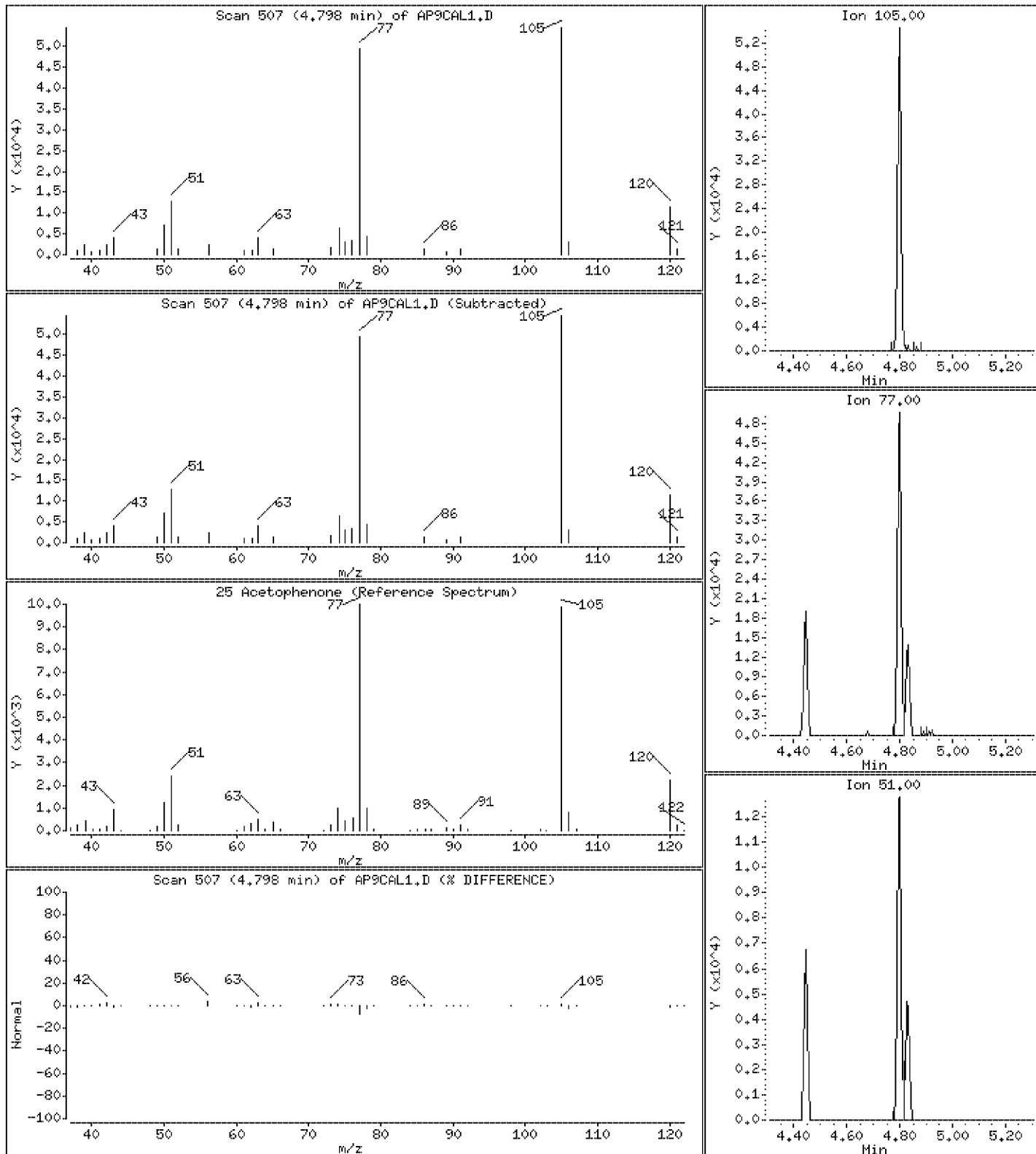
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

25 Acetophenone

Concentration: 3.9 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

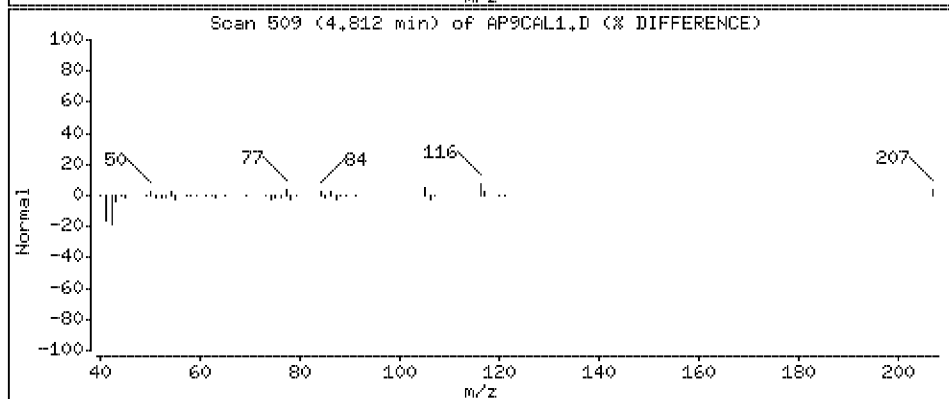
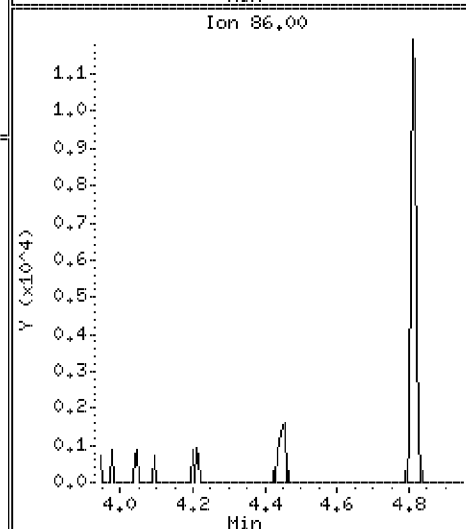
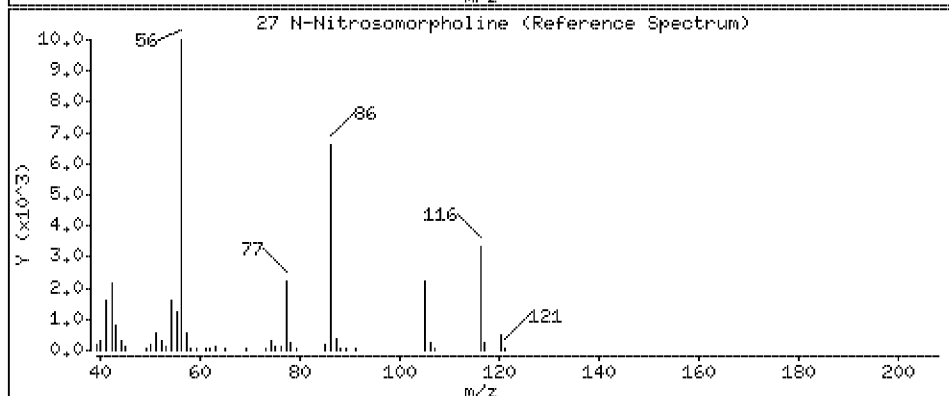
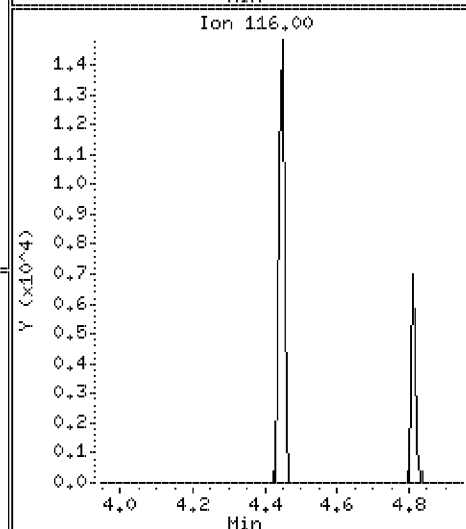
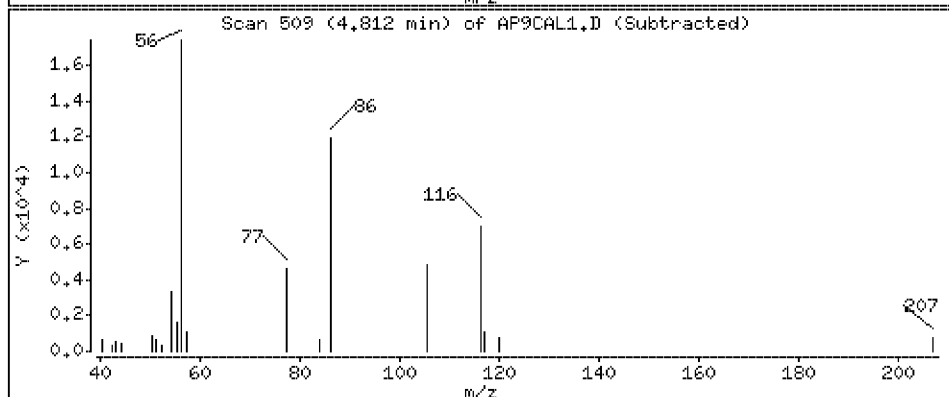
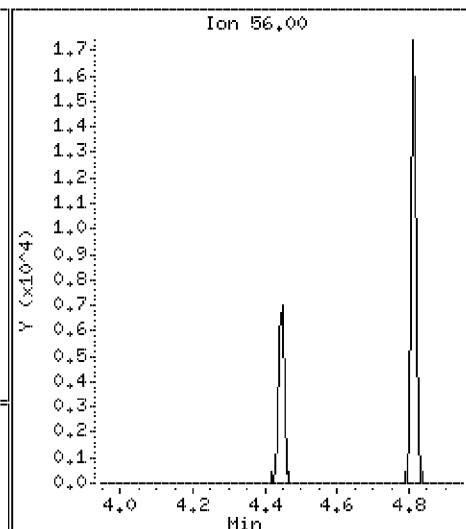
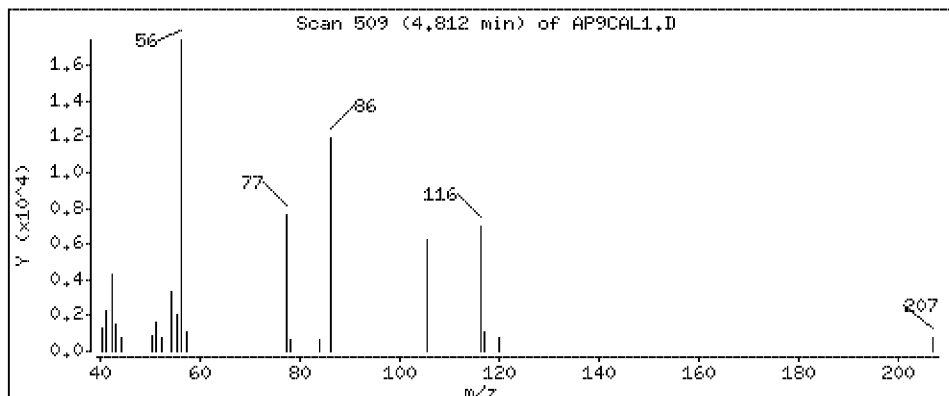
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

27 N-Nitrosomorpholine

Concentration: 3.6 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

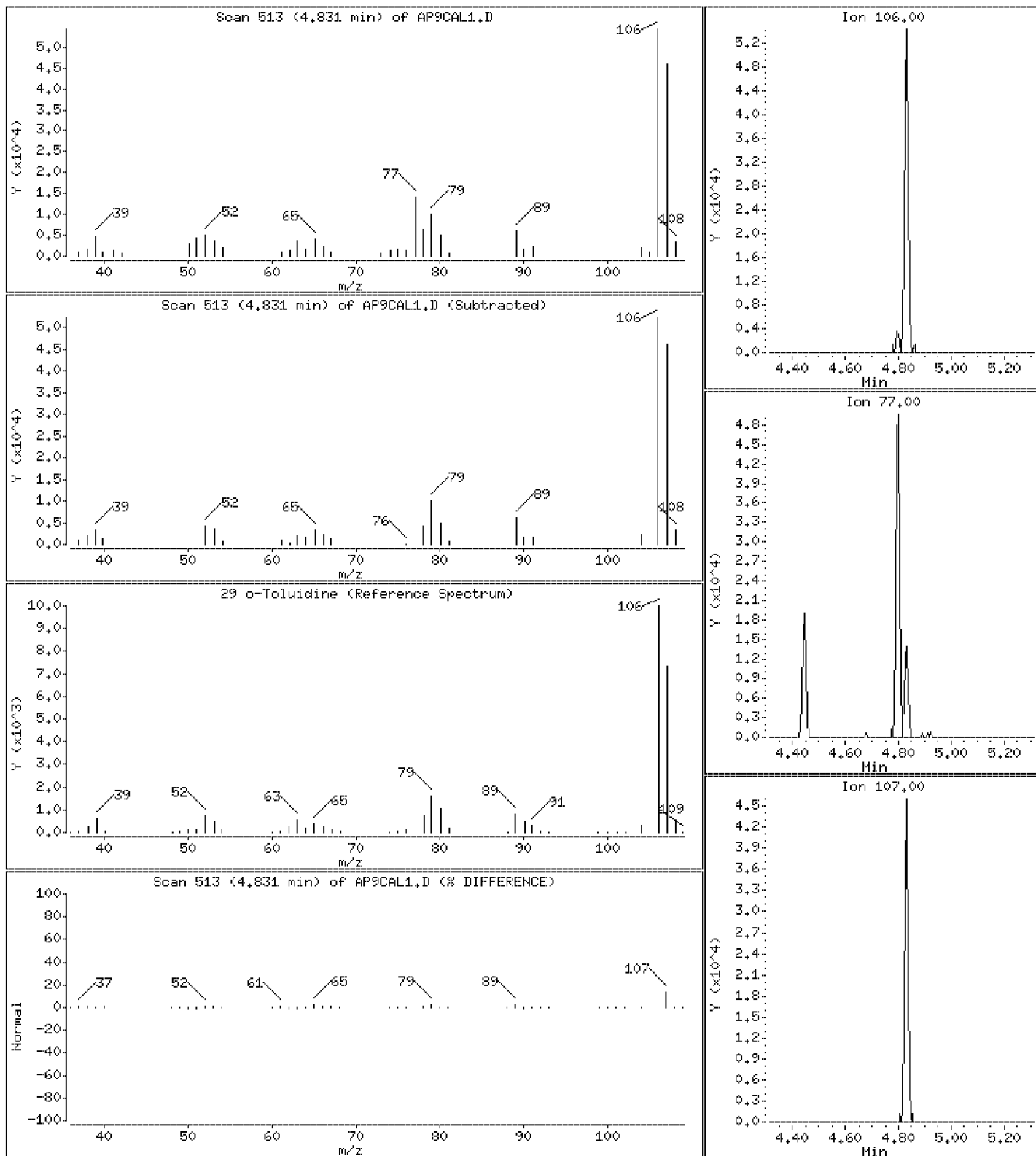
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

29 o-Toluidine

Concentration: 3.6 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

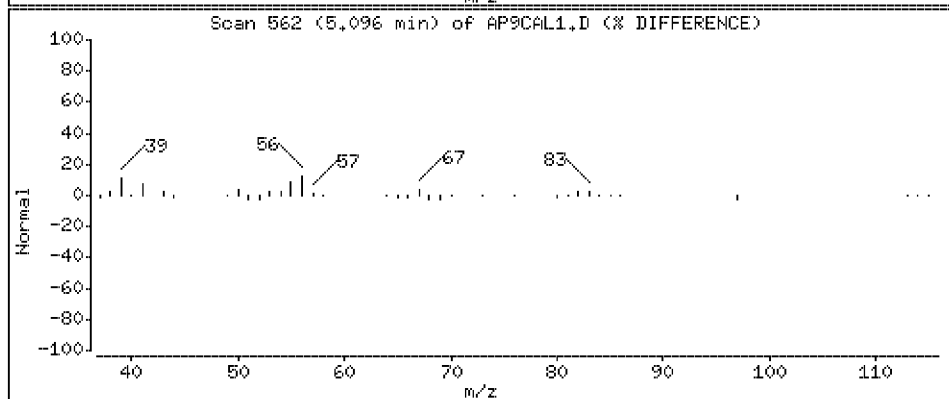
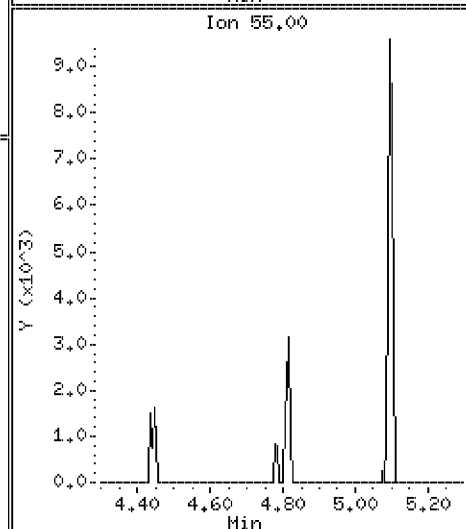
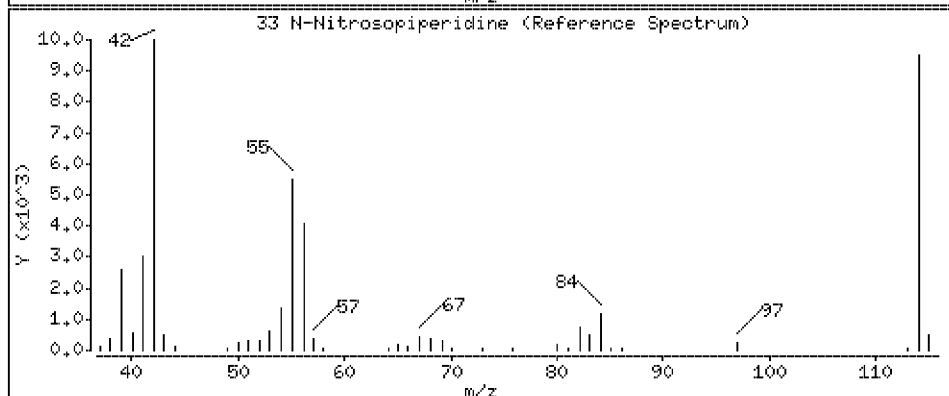
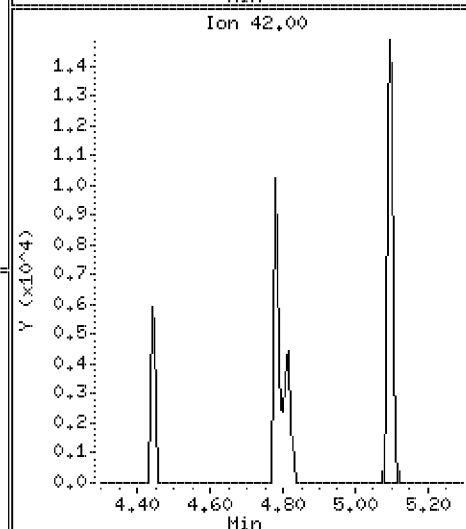
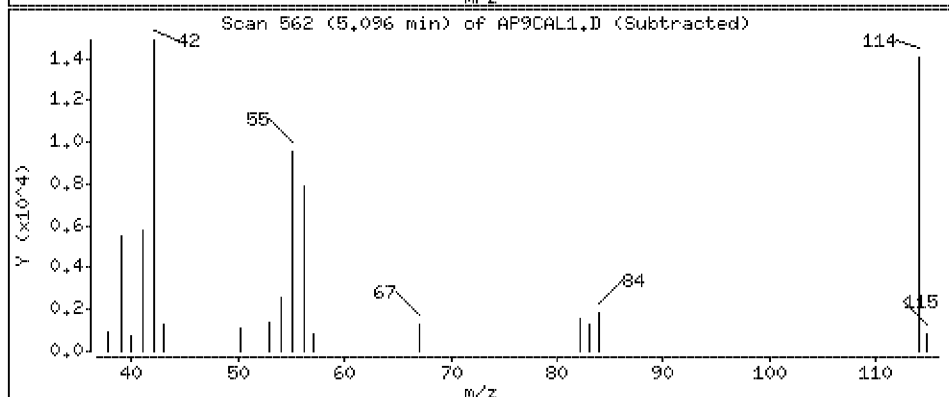
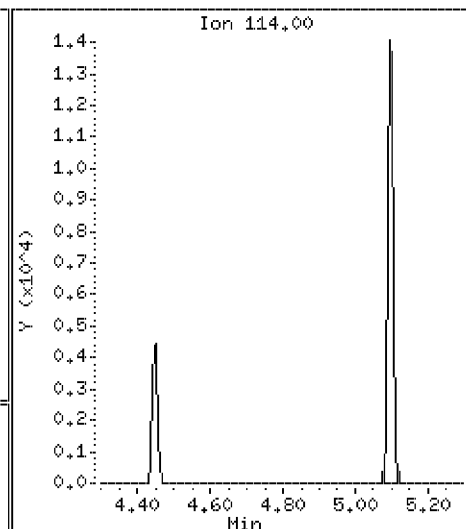
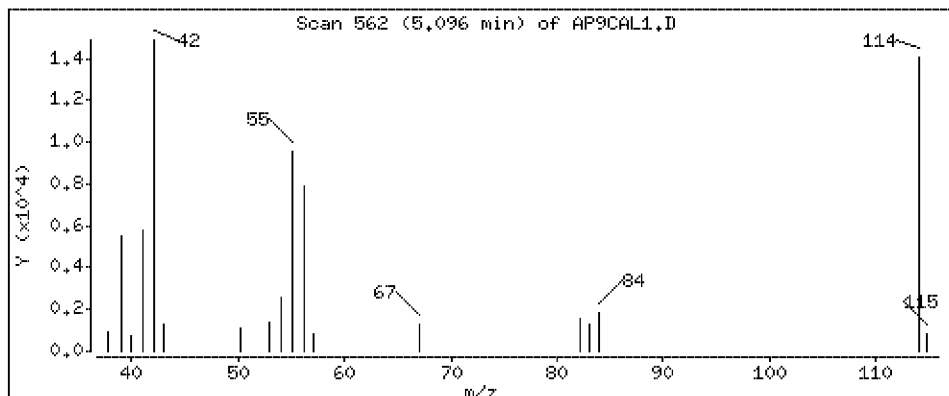
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

33 N-Nitrosopiperidine

Concentration: 3.6 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

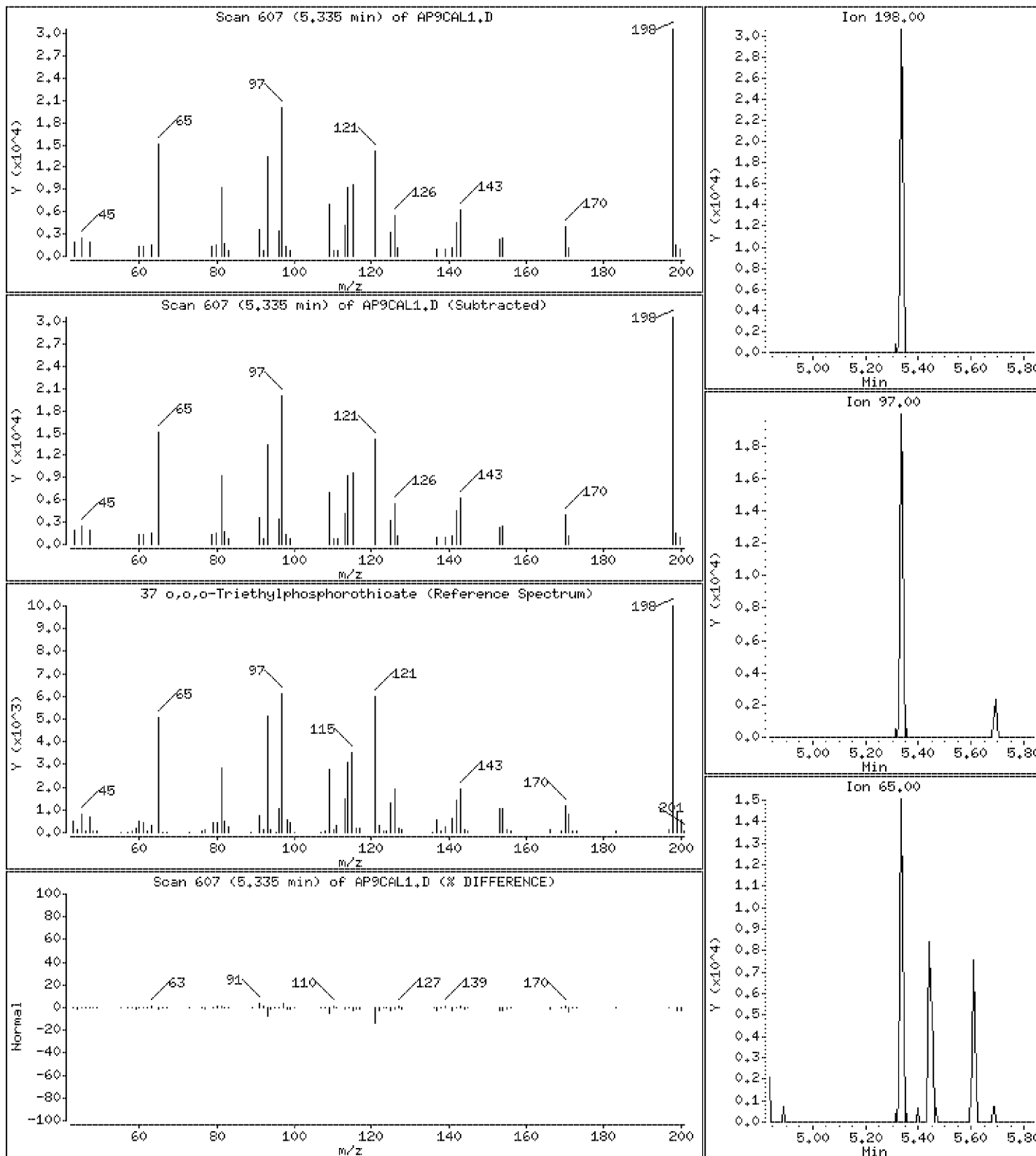
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

37 o,o,o-Triethylphosphorothioate

Concentration: 3.6 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

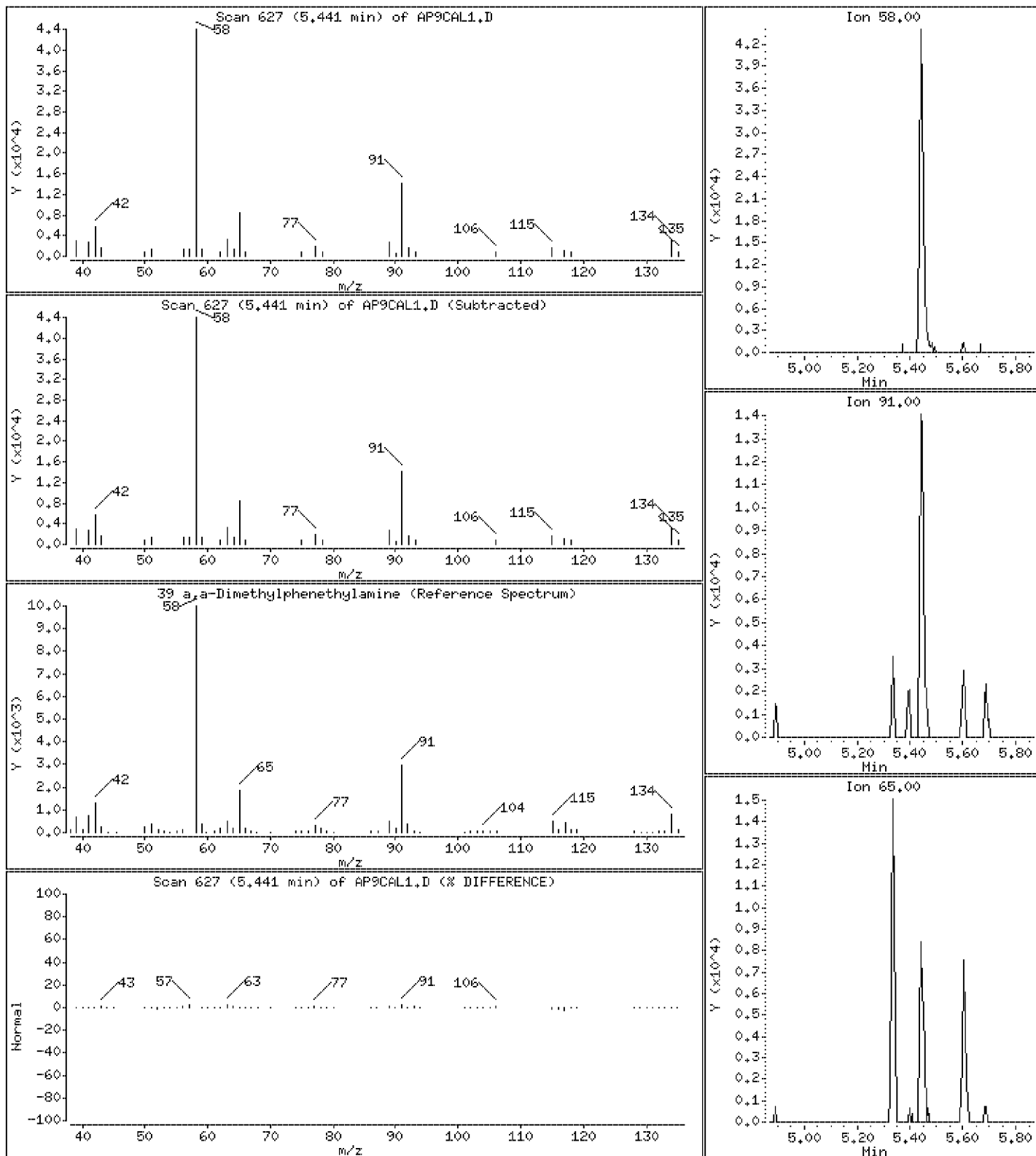
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

39 *a,a*-Dimethylphenethylamine

Concentration: 3.3 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

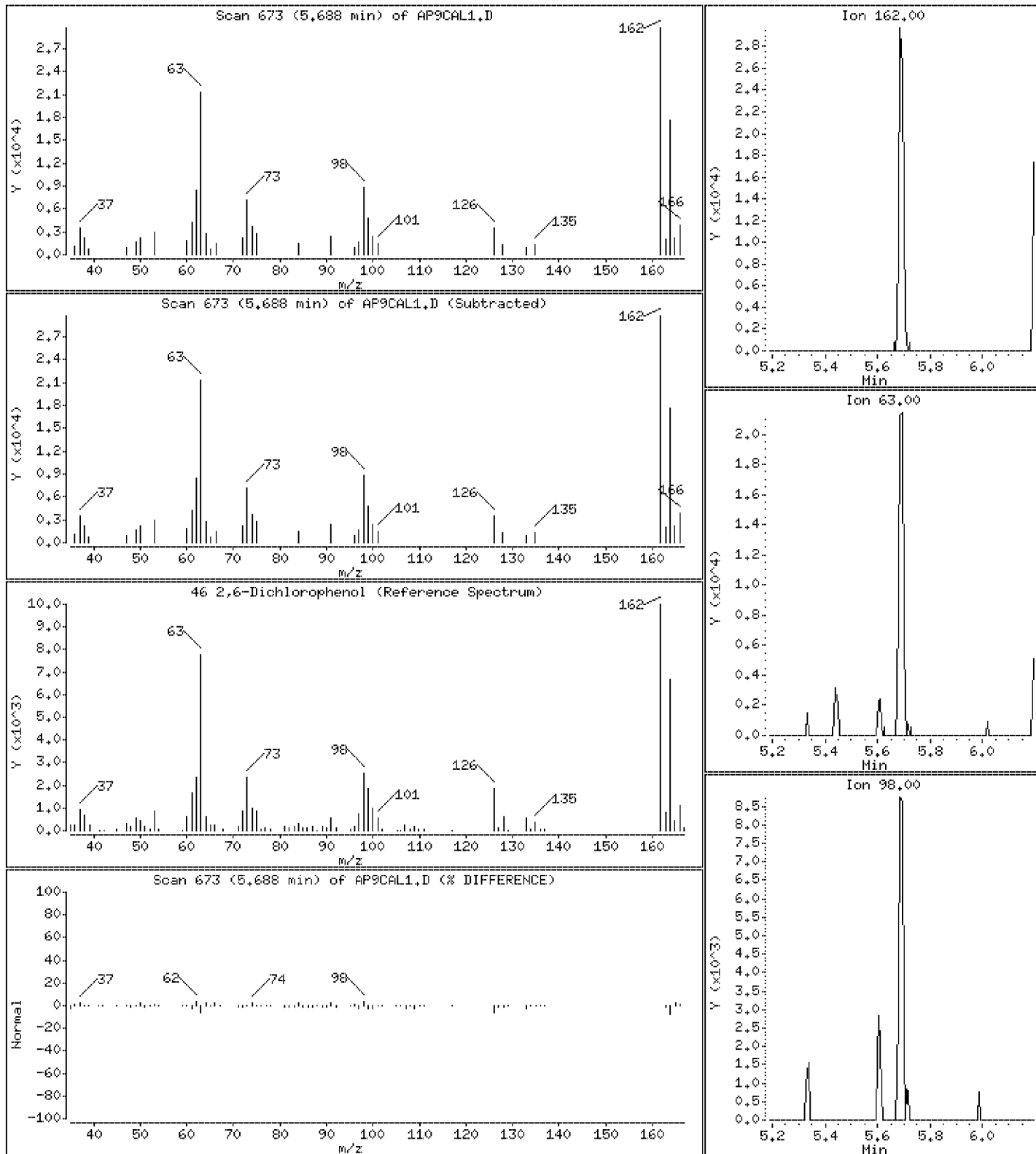
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

46 2,6-Dichlorophenol

Concentration: 3.5 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

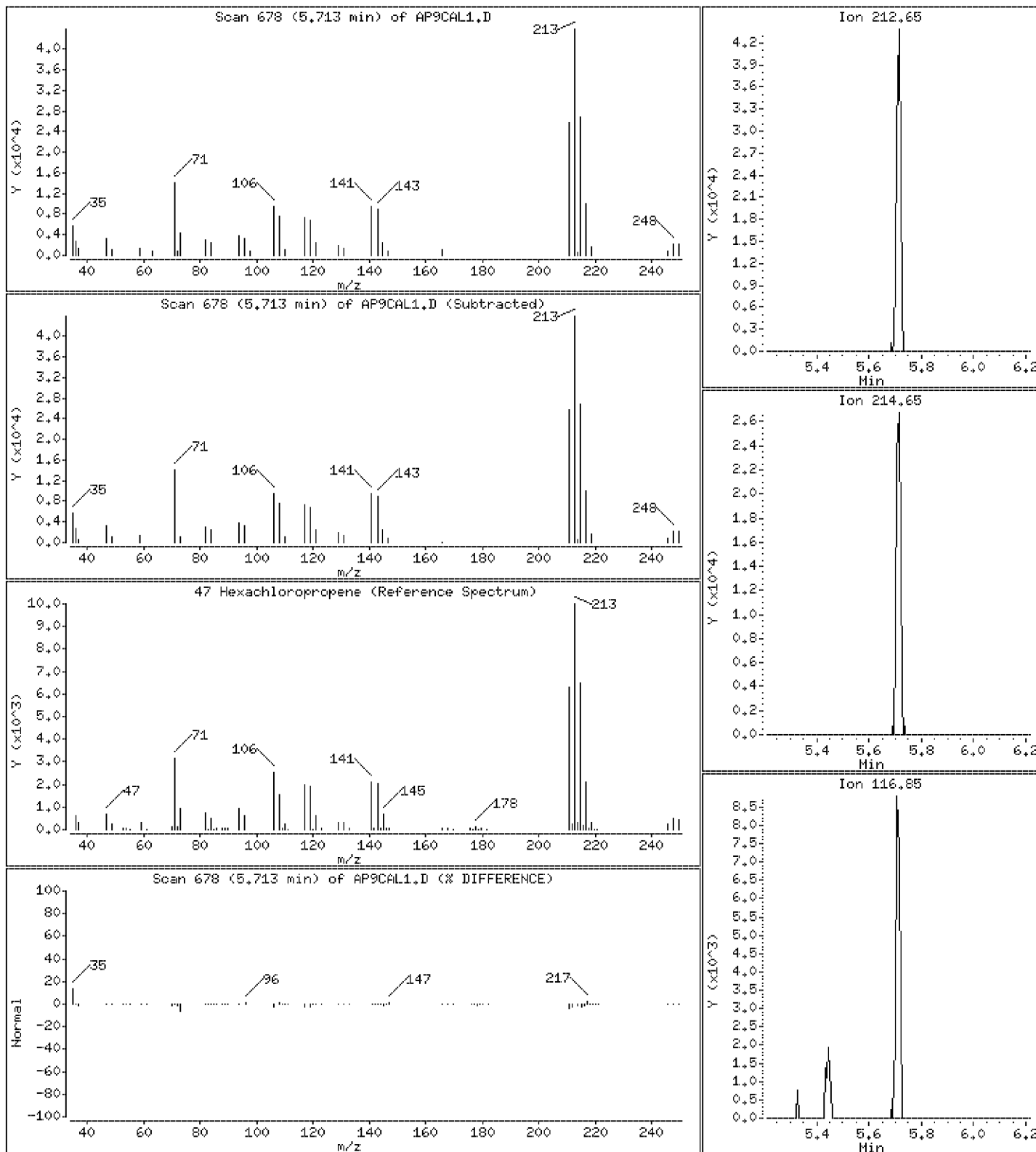
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

47 Hexachloropropene

Concentration: 3.7 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

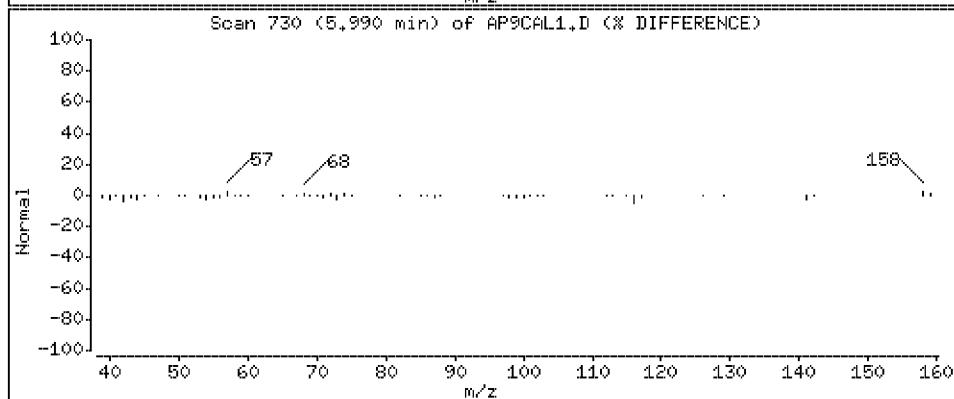
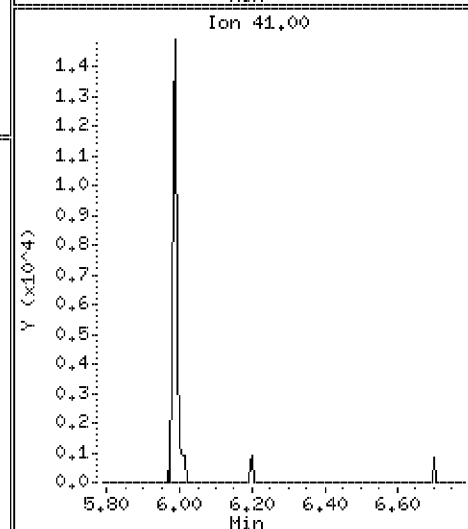
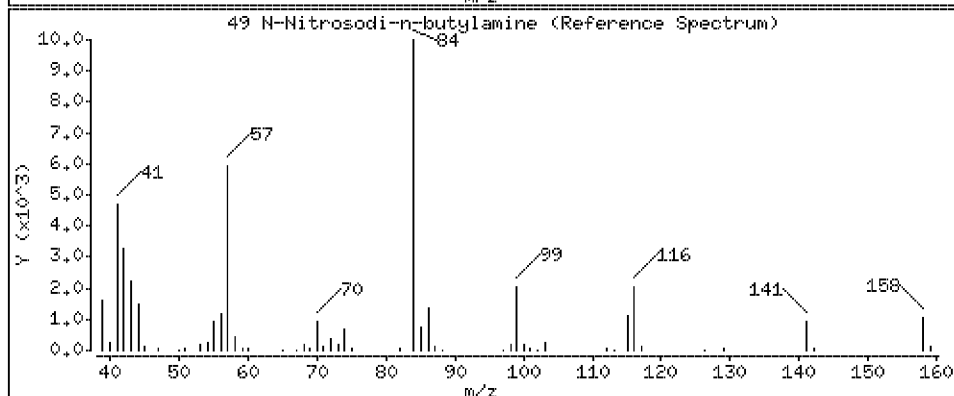
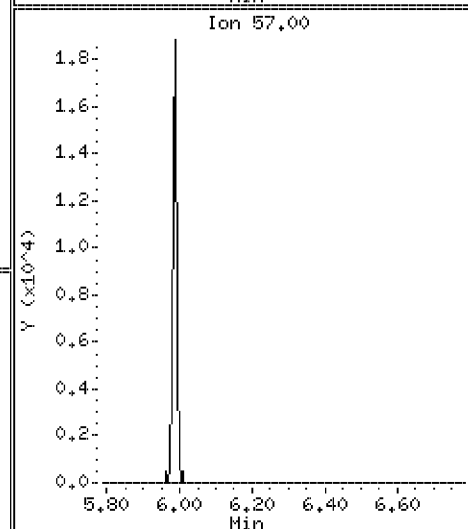
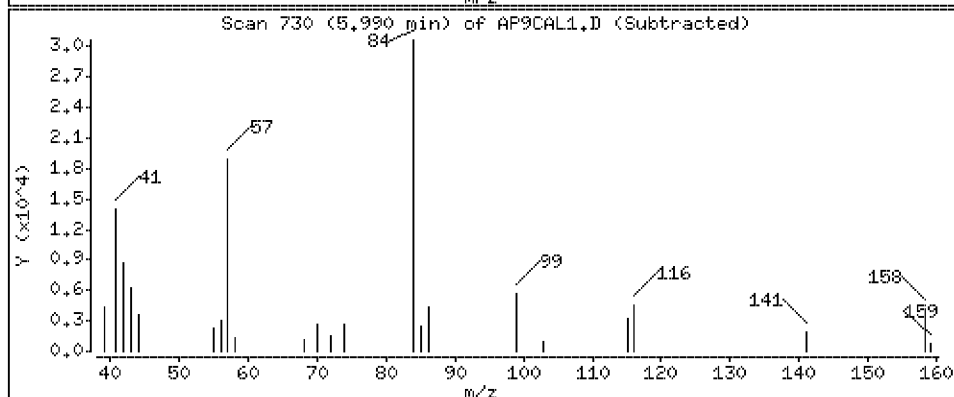
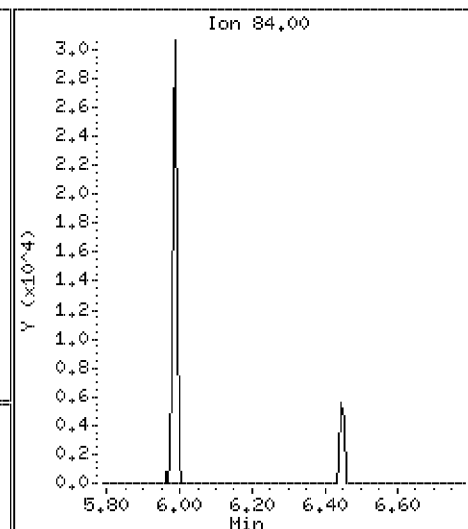
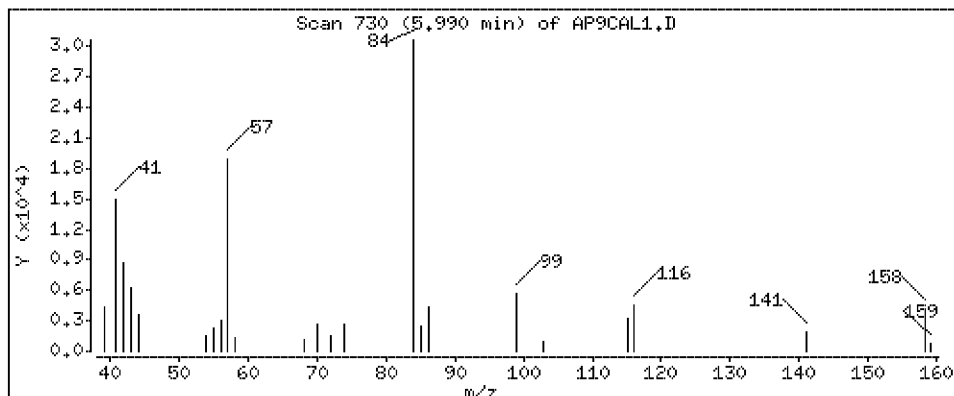
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

49 N-Nitrosodi-n-butylamine

Concentration: 3.5 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

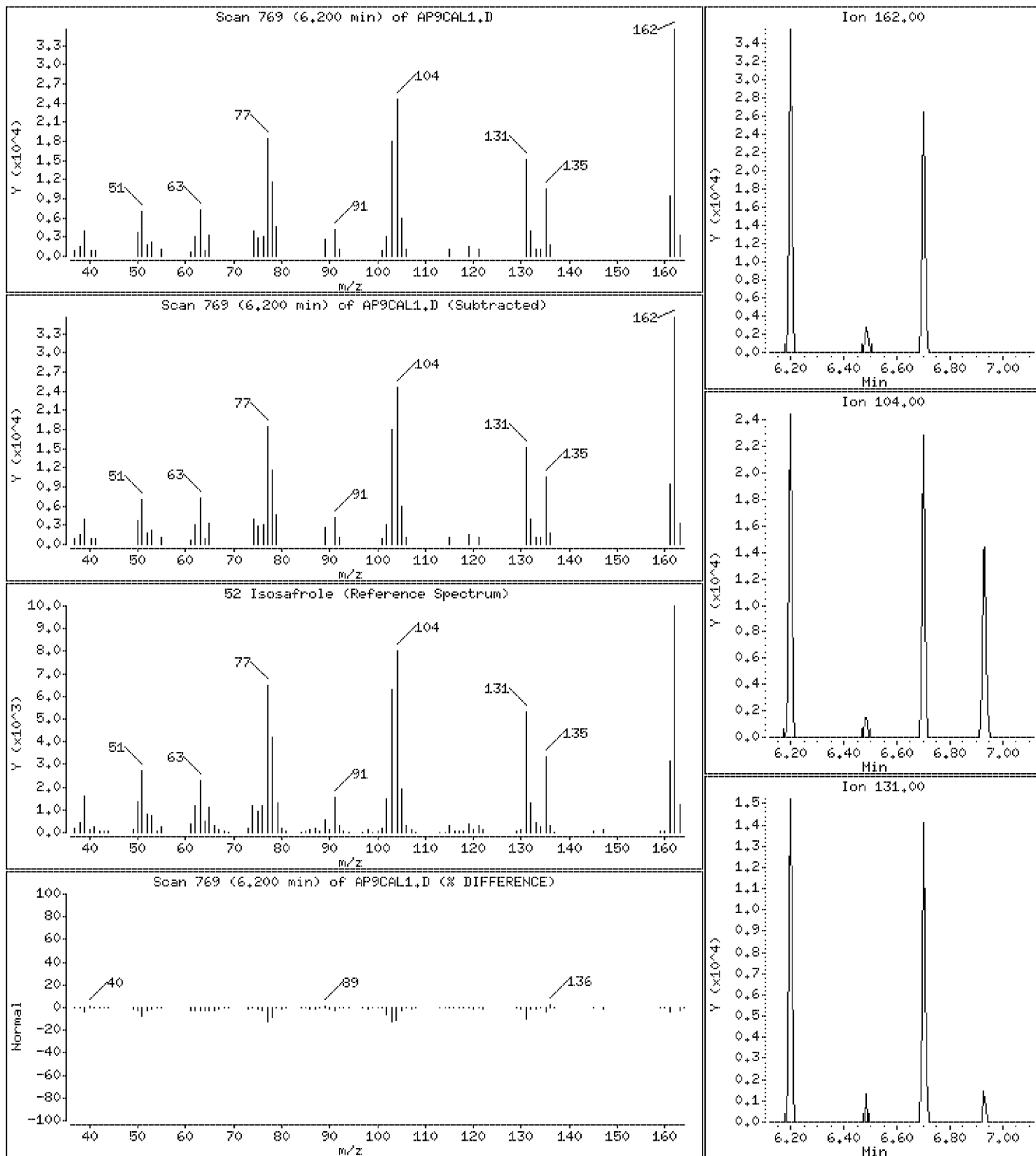
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

52 Isosafrole

Concentration: 3.5 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

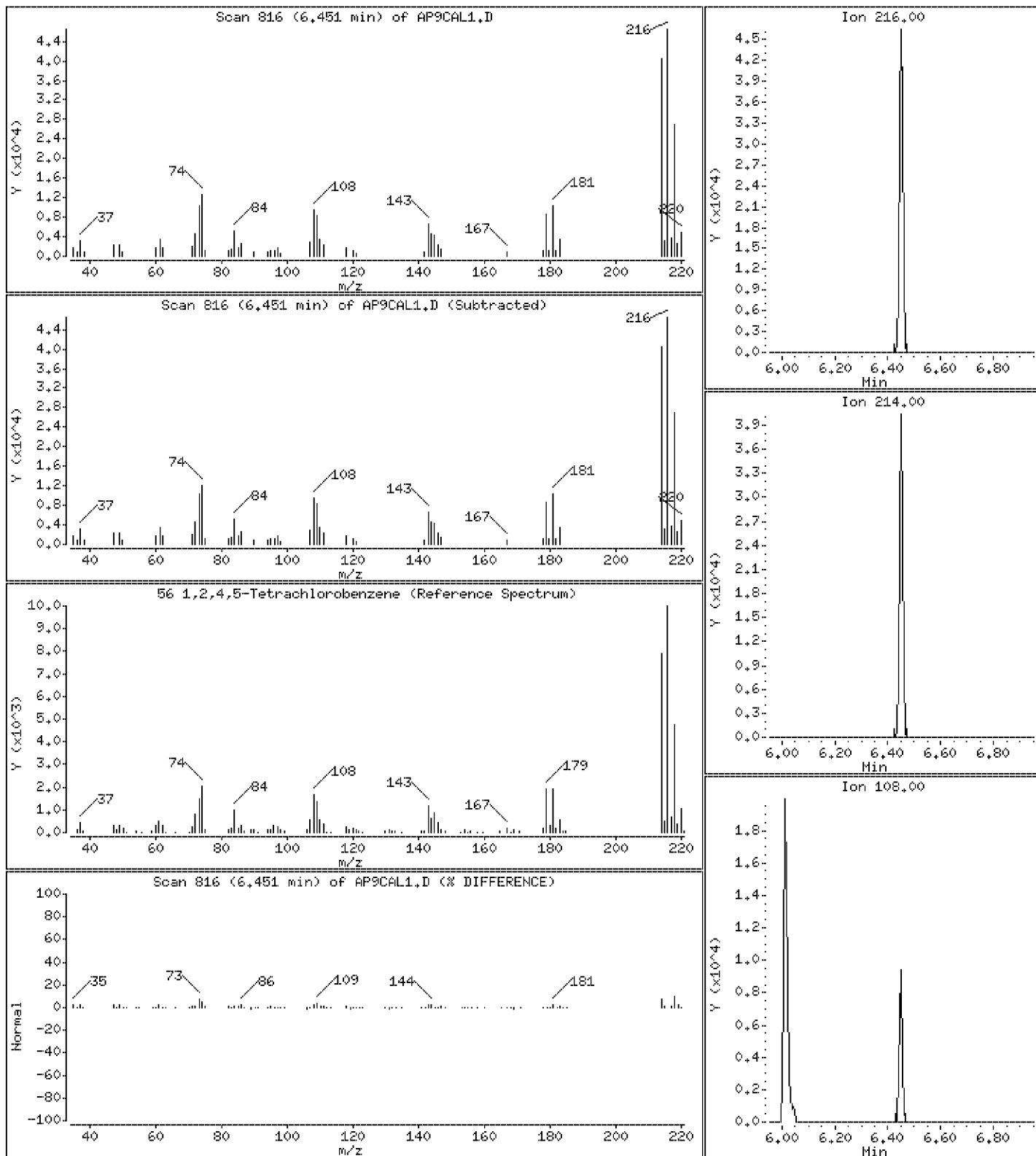
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

56 1,2,4,5-Tetrachlorobenzene

Concentration: 3.7 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

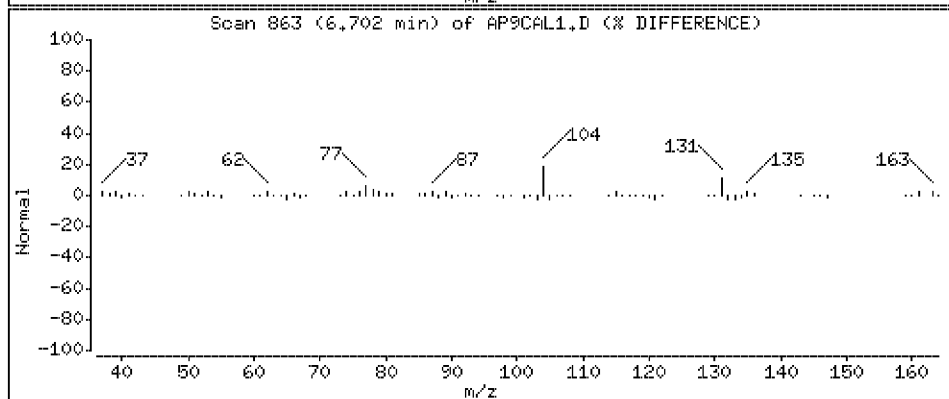
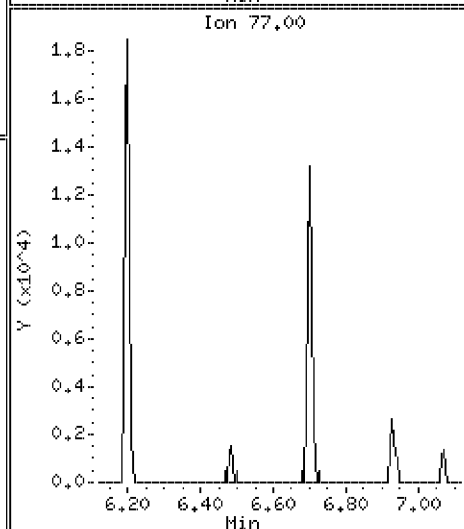
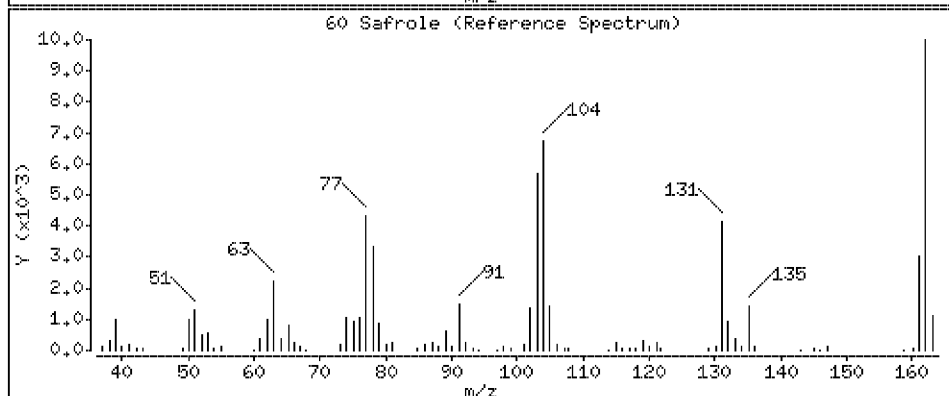
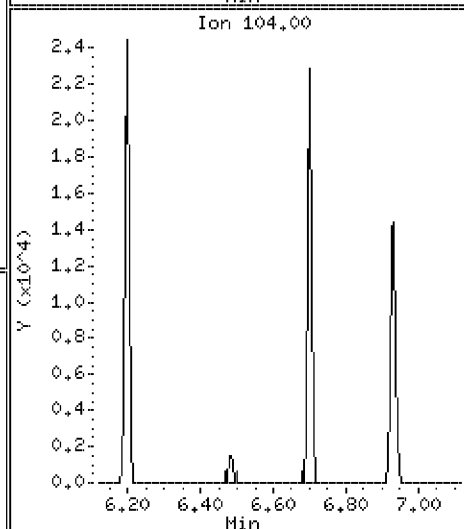
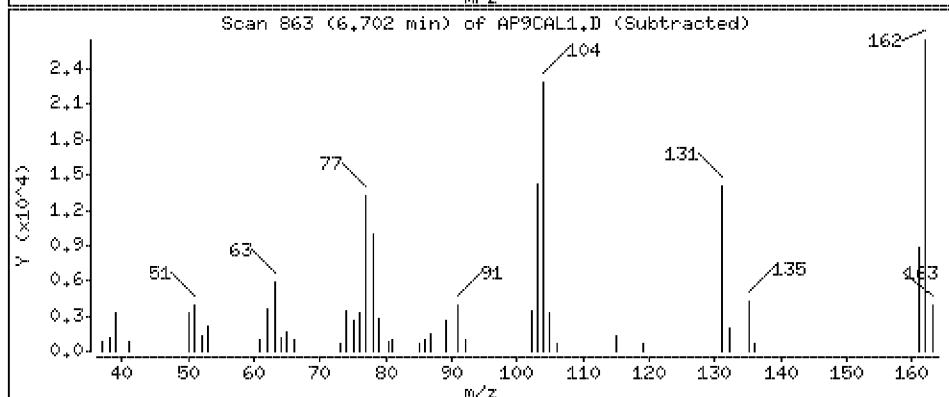
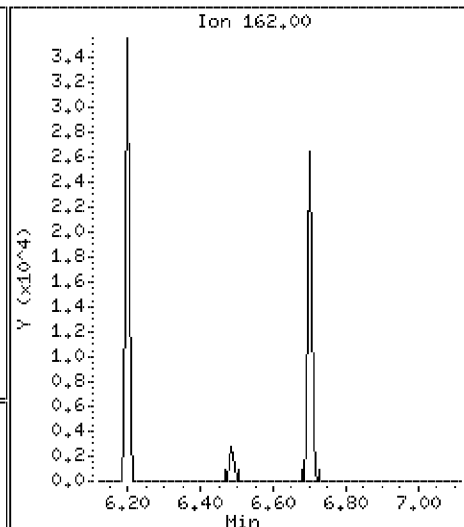
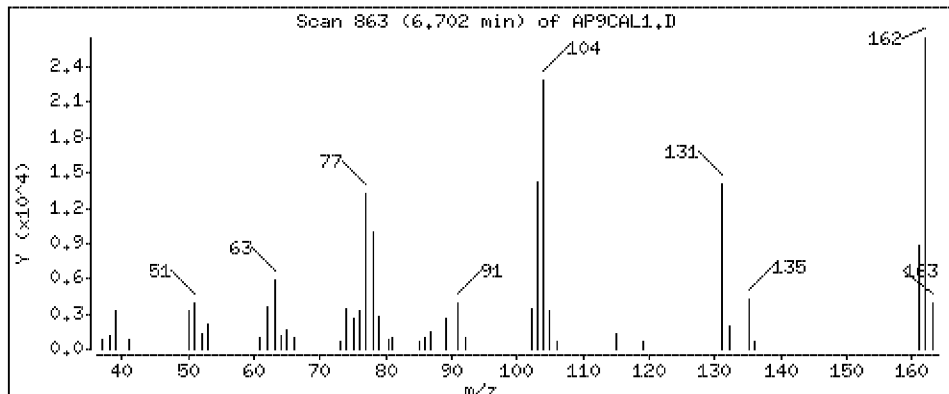
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

60 Safrole

Concentration: 3.2 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

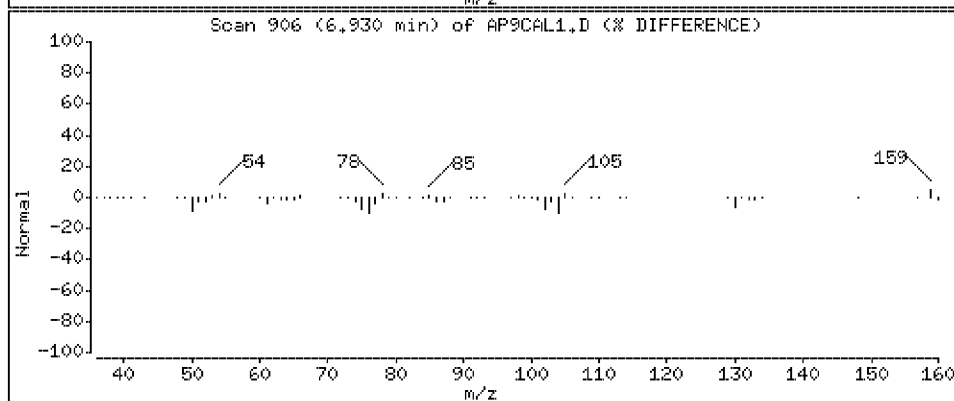
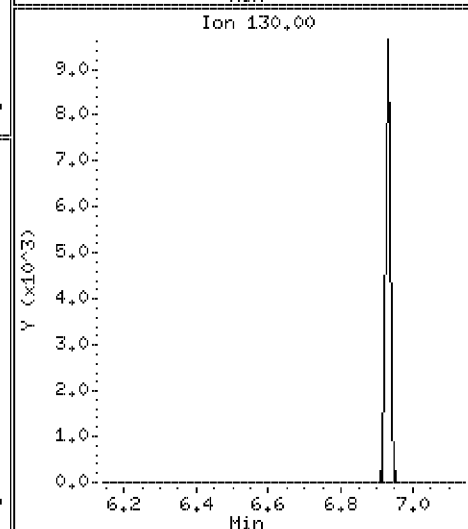
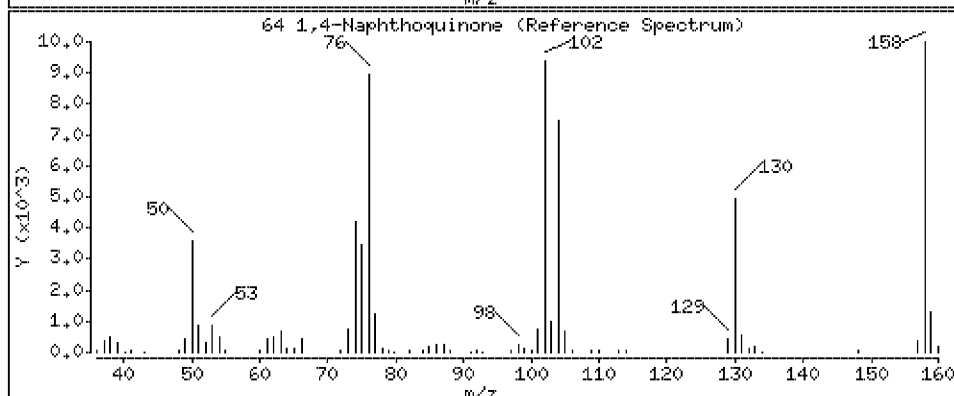
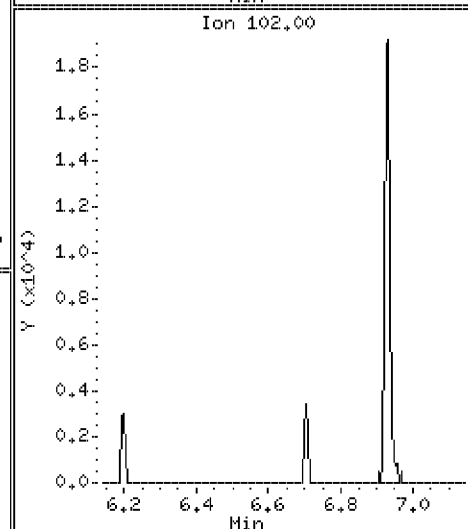
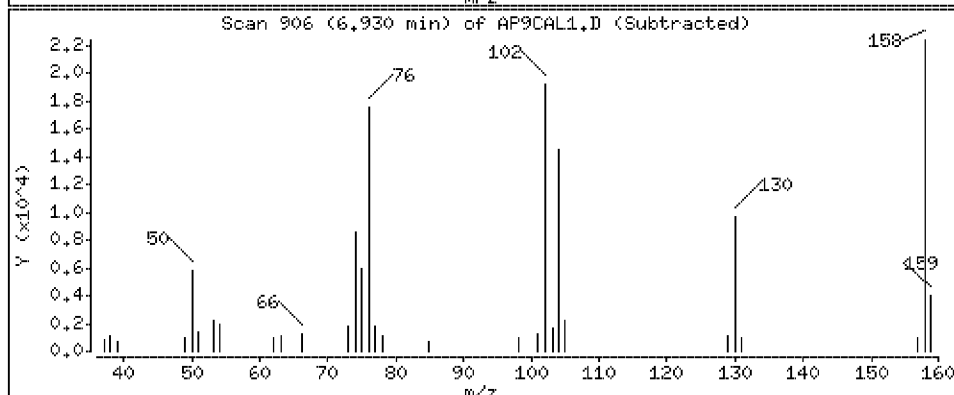
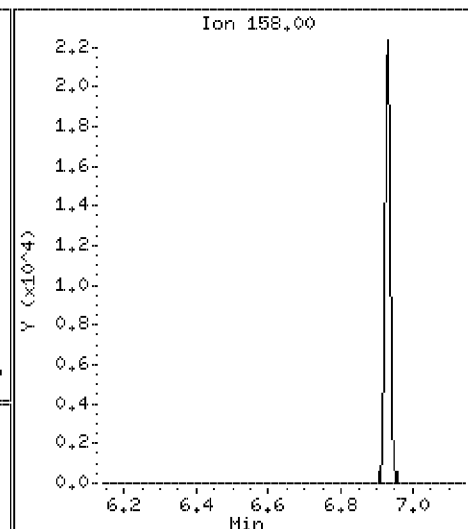
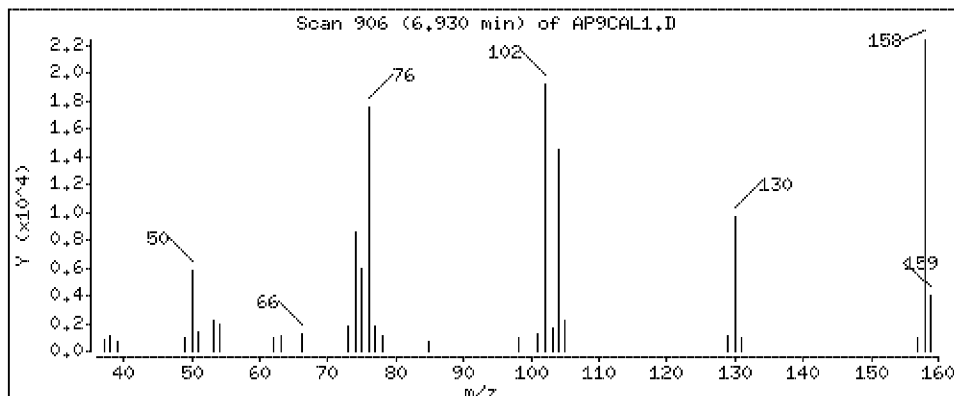
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

64 1,4-Naphthoquinone

Concentration: 3.4 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

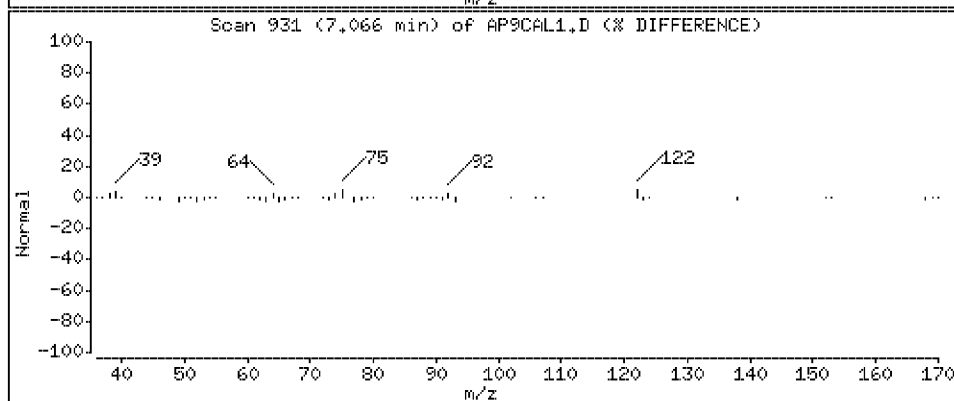
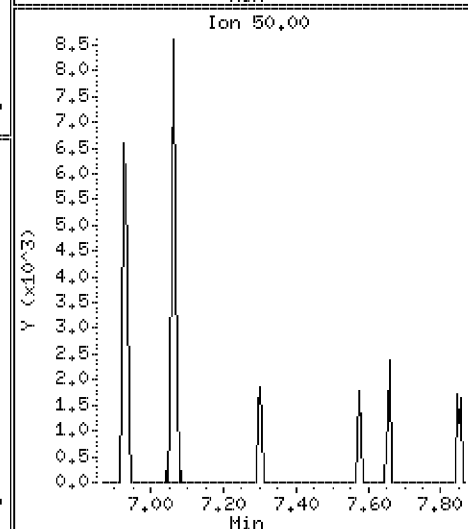
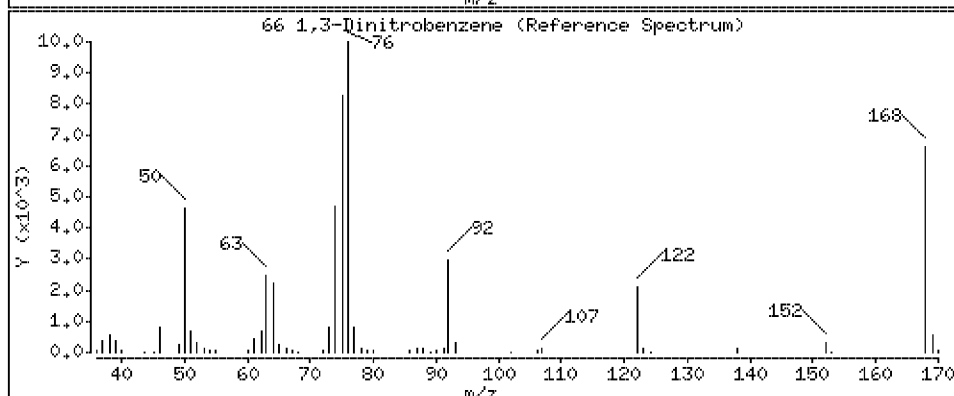
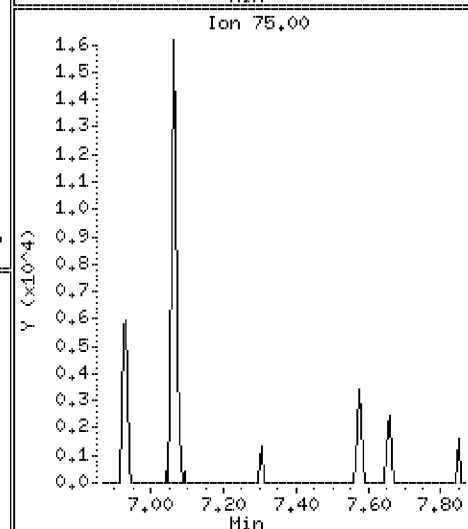
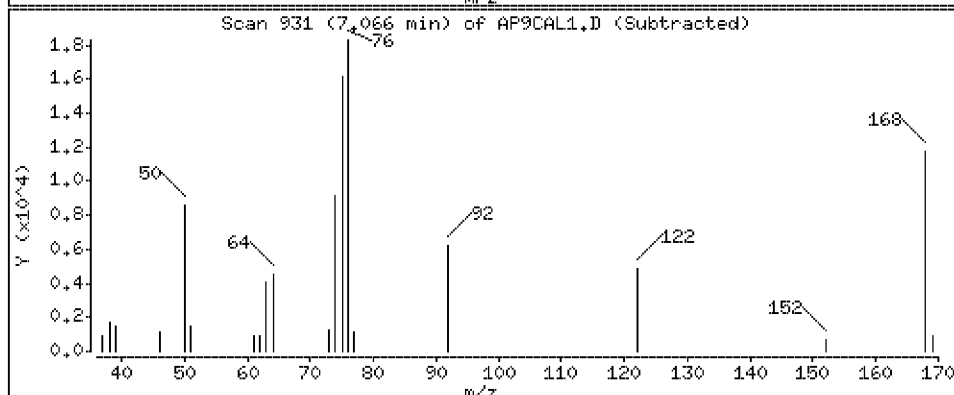
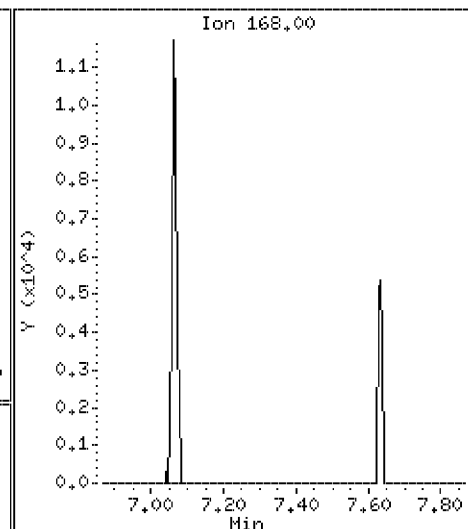
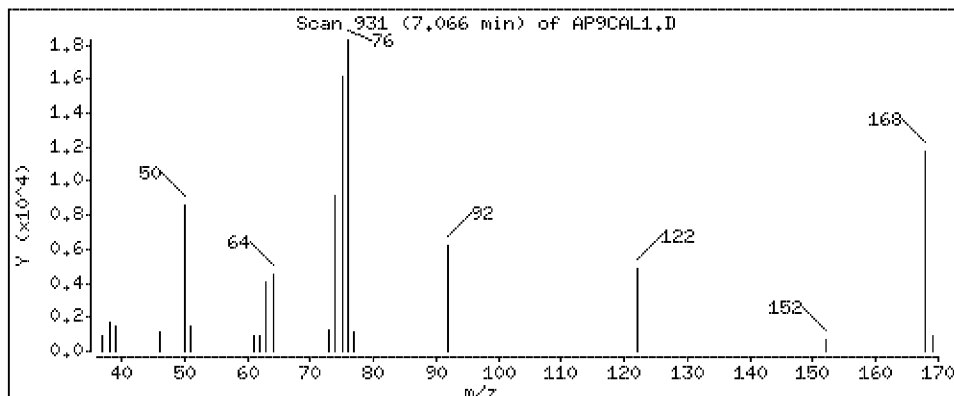
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

66 1,3-Dinitrobenzene

Concentration: 3.4 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

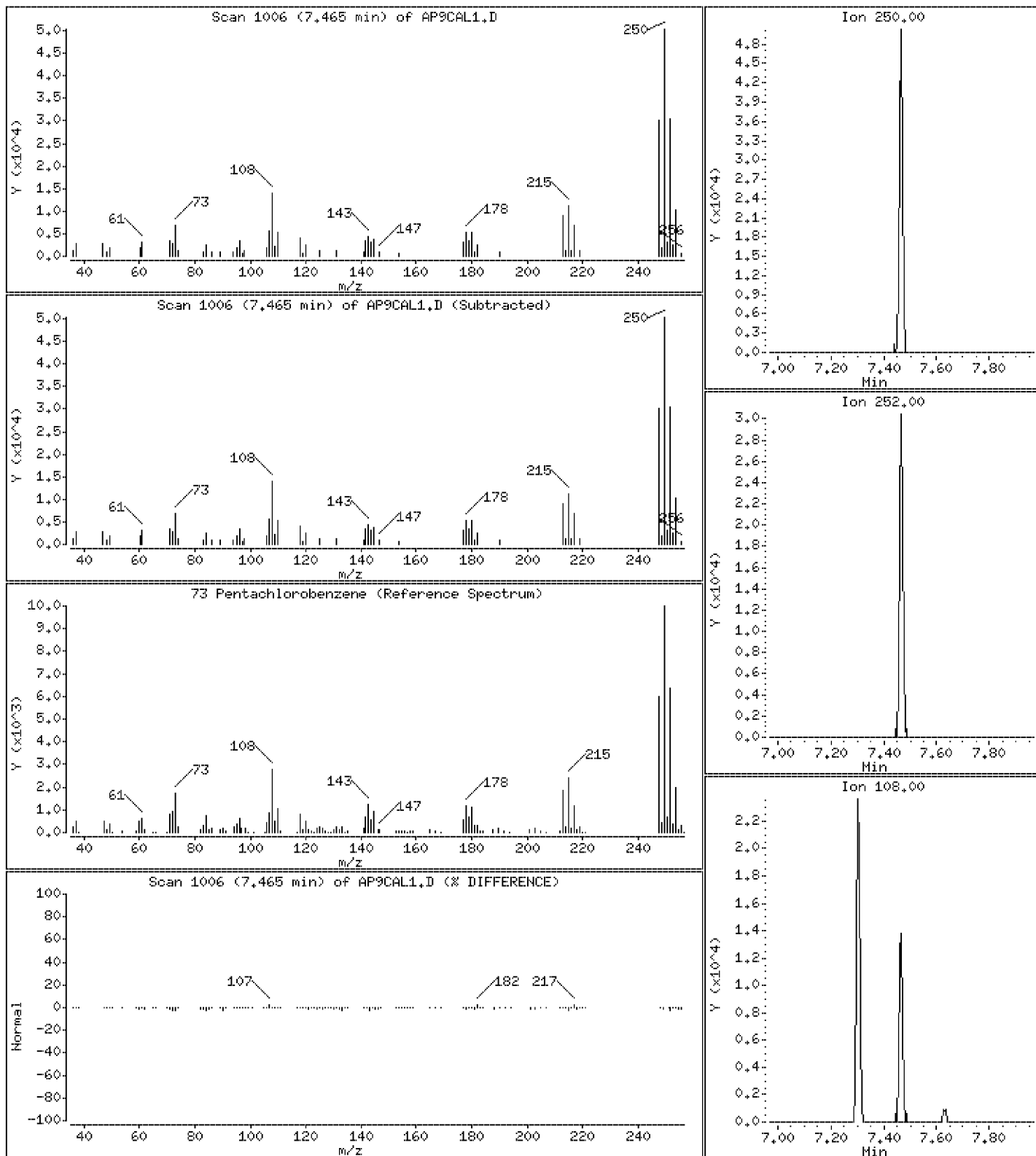
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

73 Pentachlorobenzene

Concentration: 3.6 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

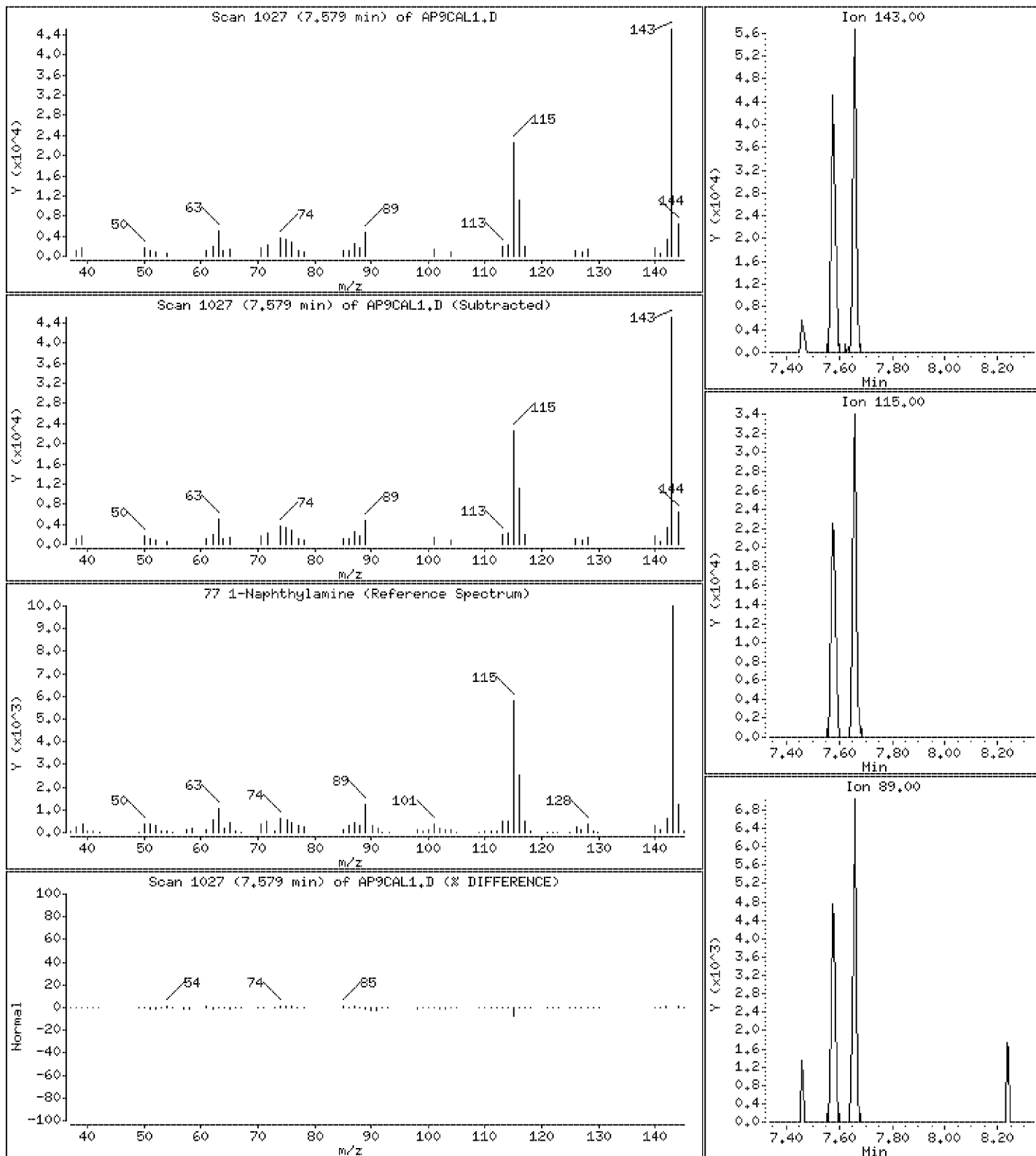
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

77 1-Naphthylamine

Concentration: 3.7 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

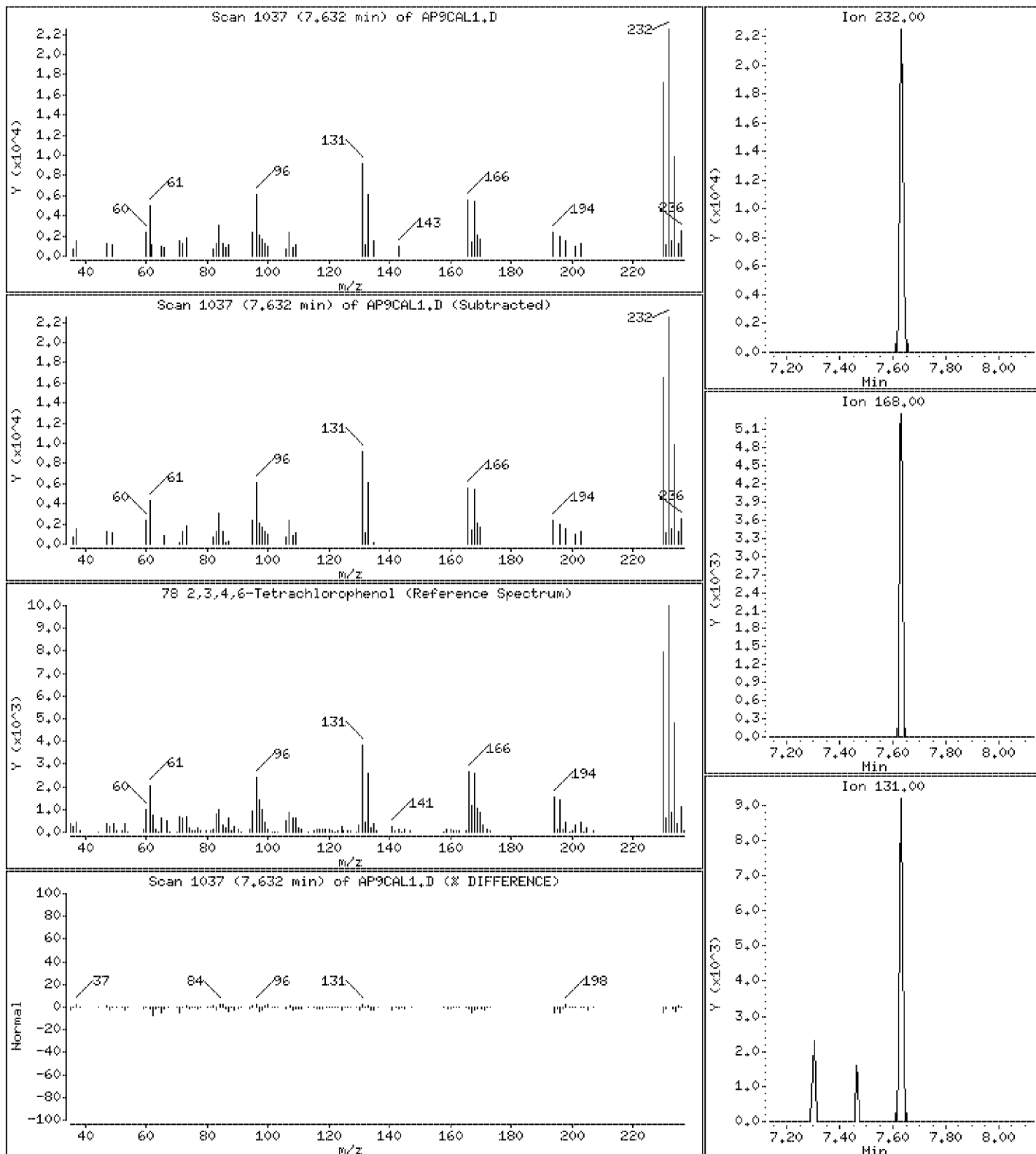
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

78 2,3,4,6-Tetrachlorophenol

Concentration: 3.3 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

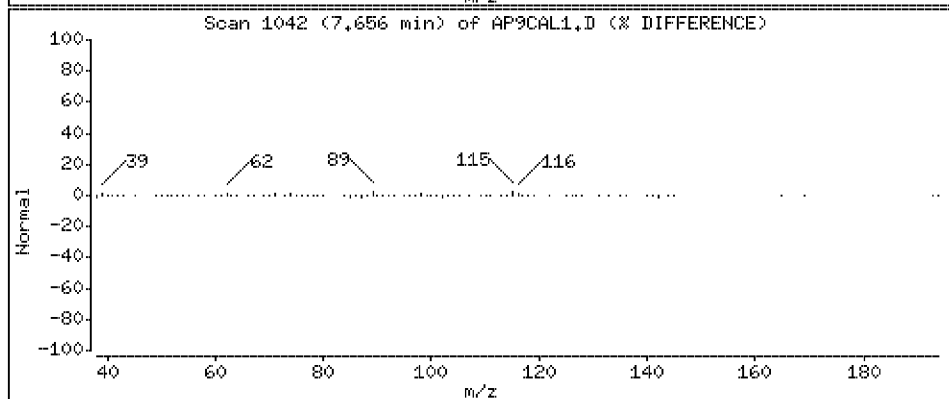
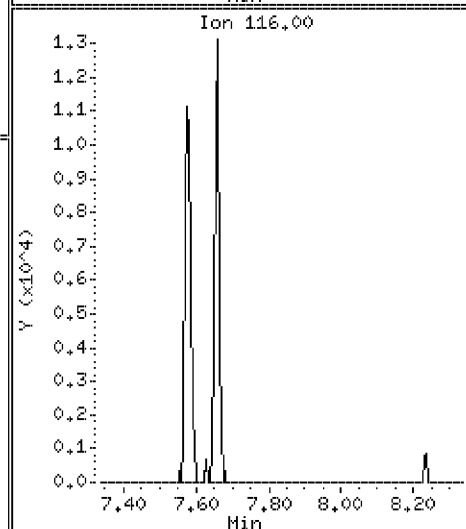
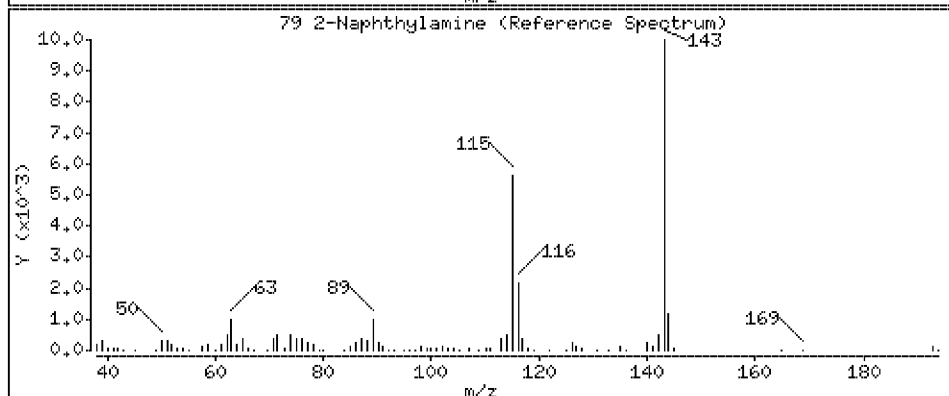
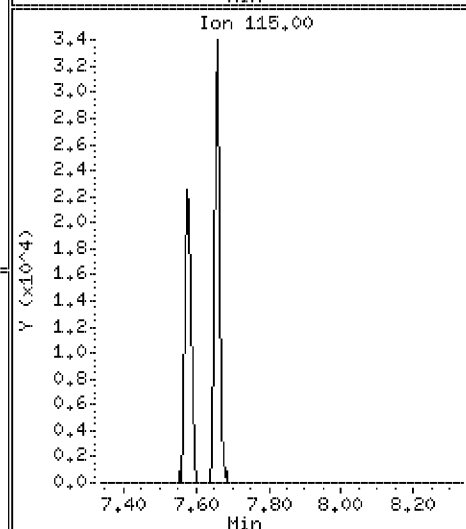
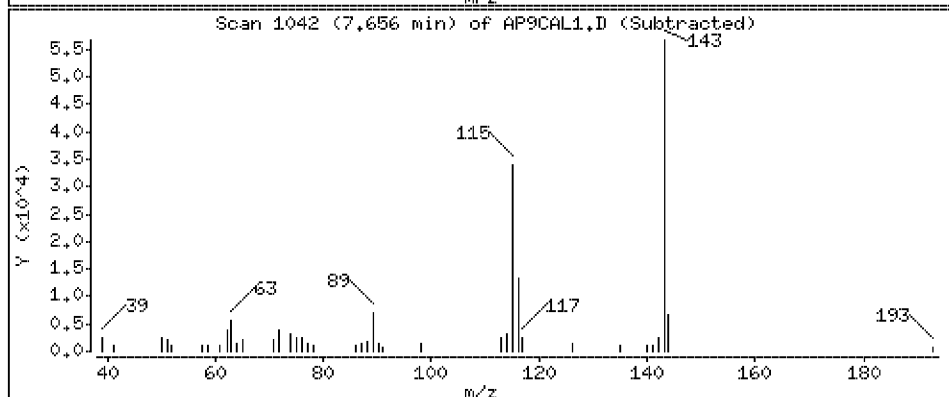
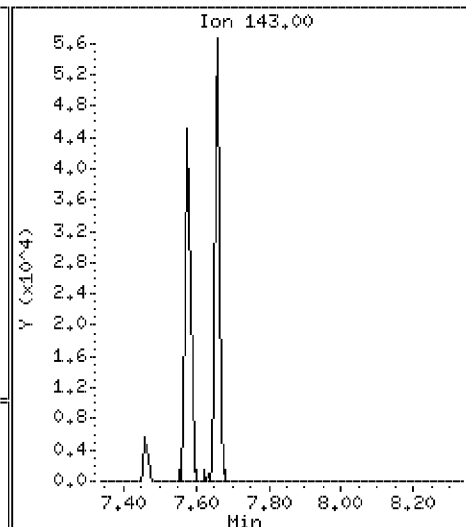
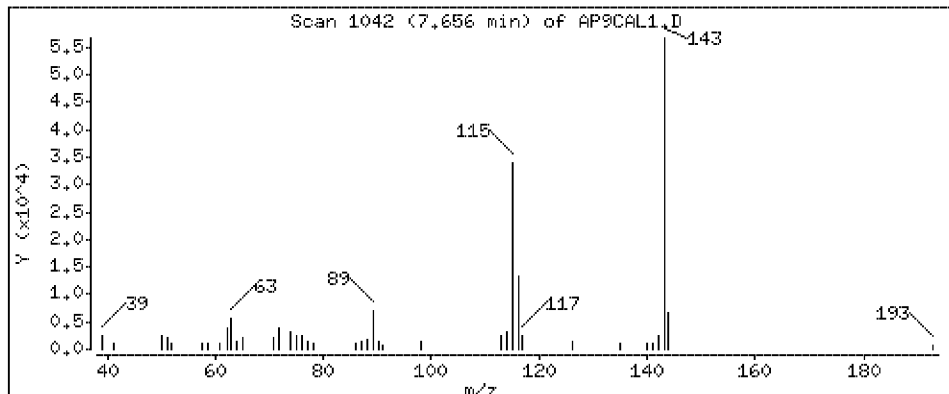
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

79 2-Naphthylamine

Concentration: 3.5 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

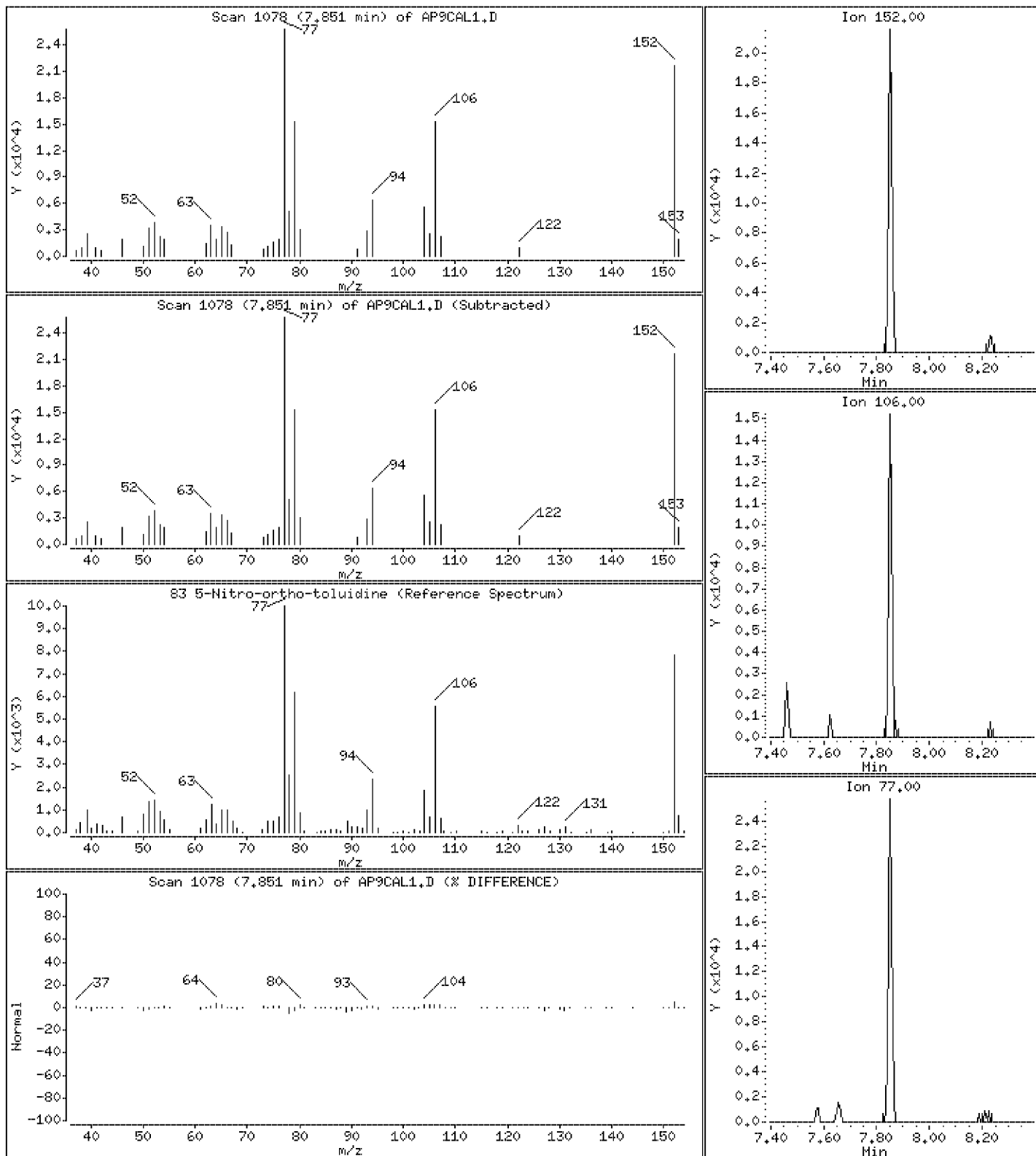
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

83 5-Nitro-ortho-toluidine

Concentration: 3.5 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

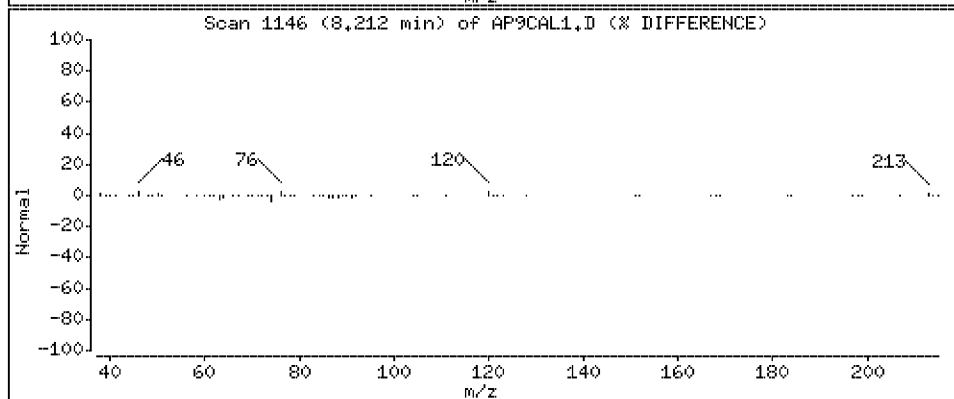
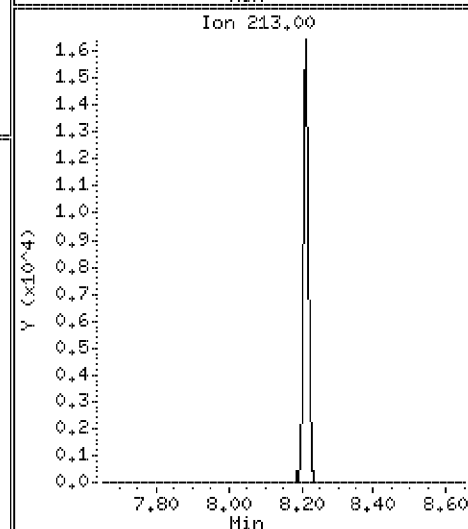
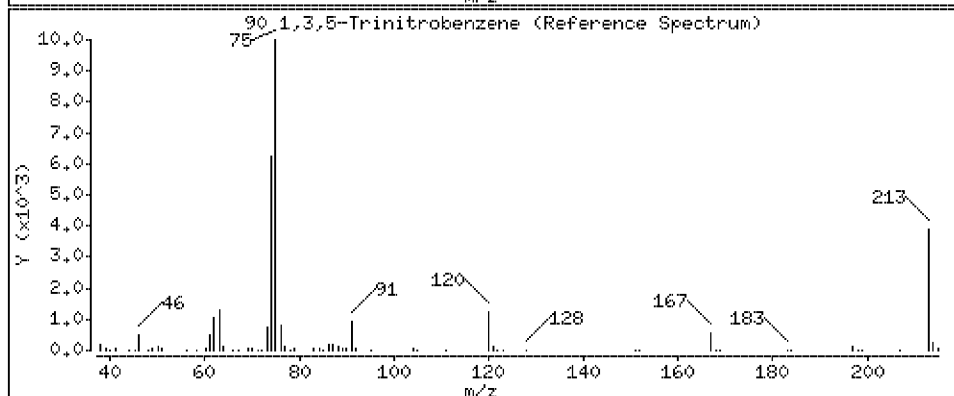
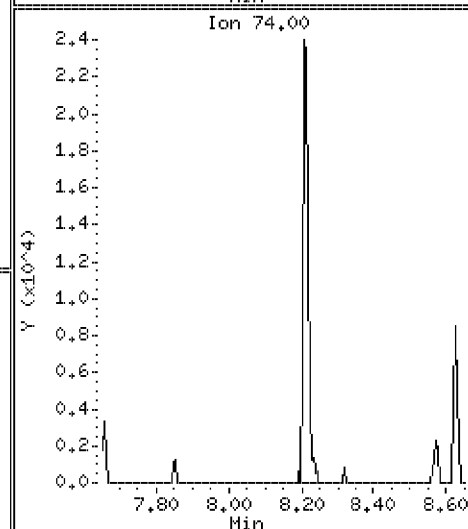
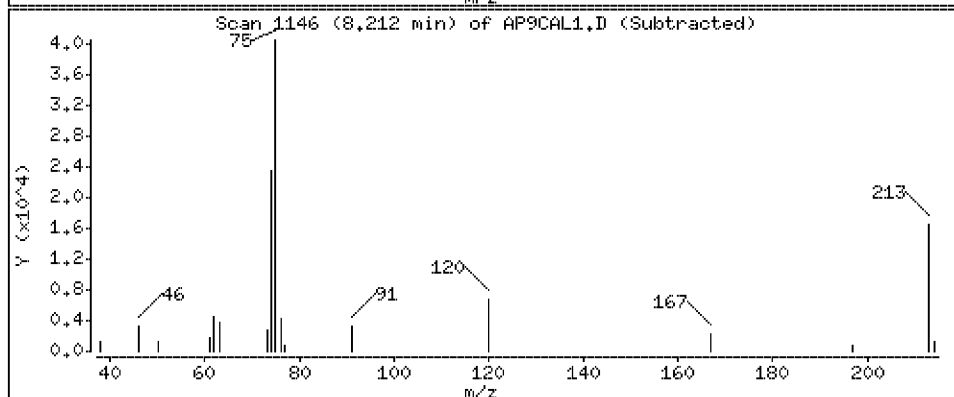
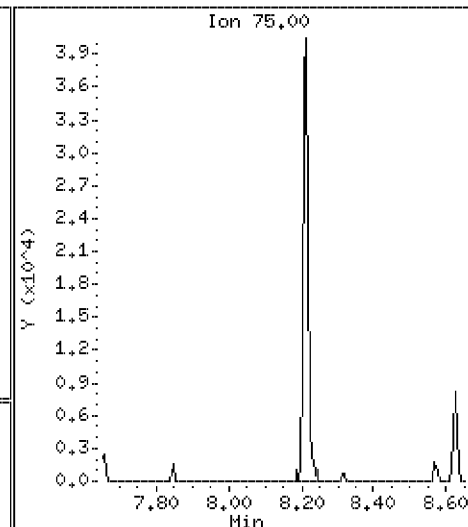
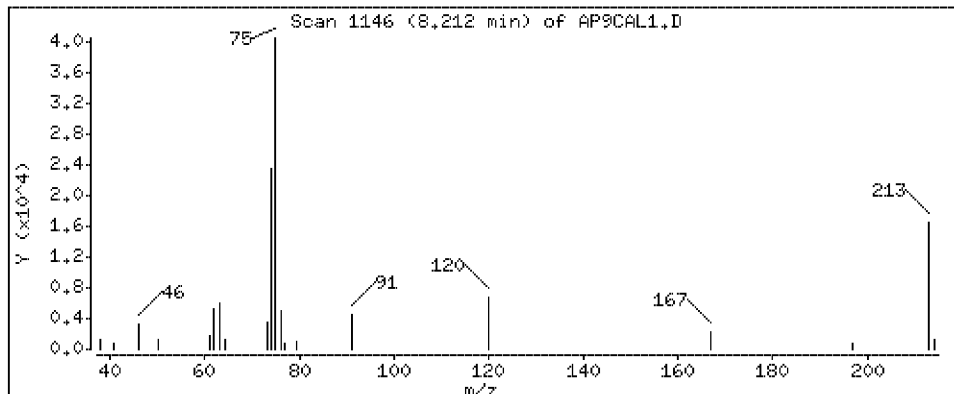
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

90 1,3,5-Trinitrobenzene

Concentration: 5.8 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

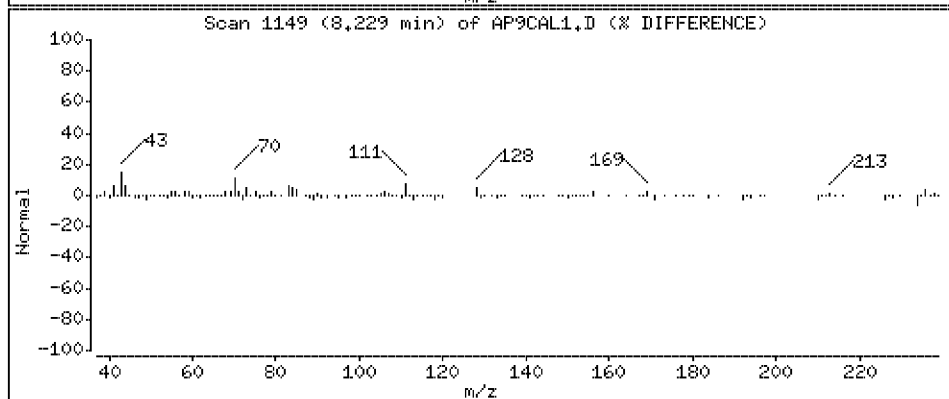
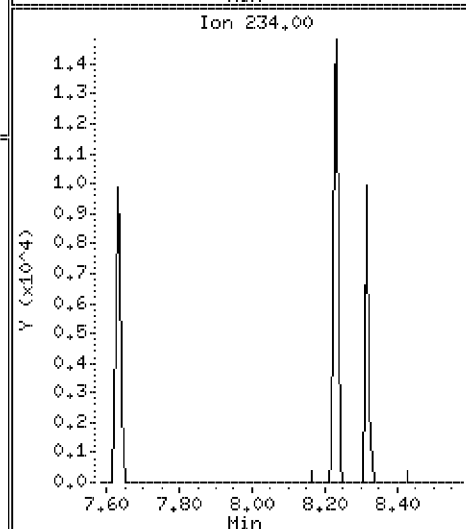
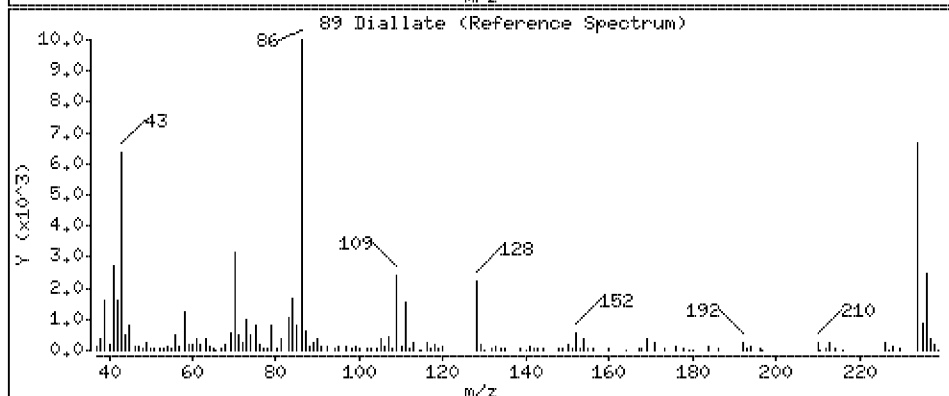
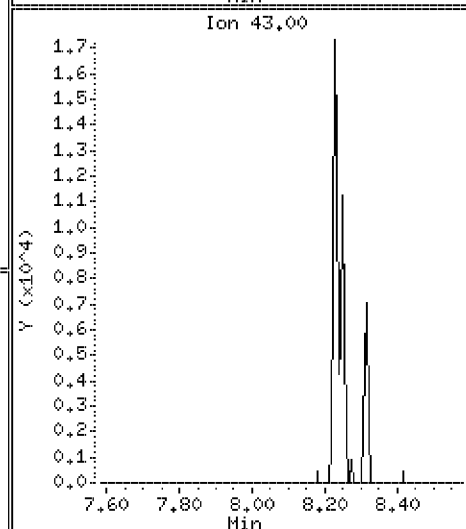
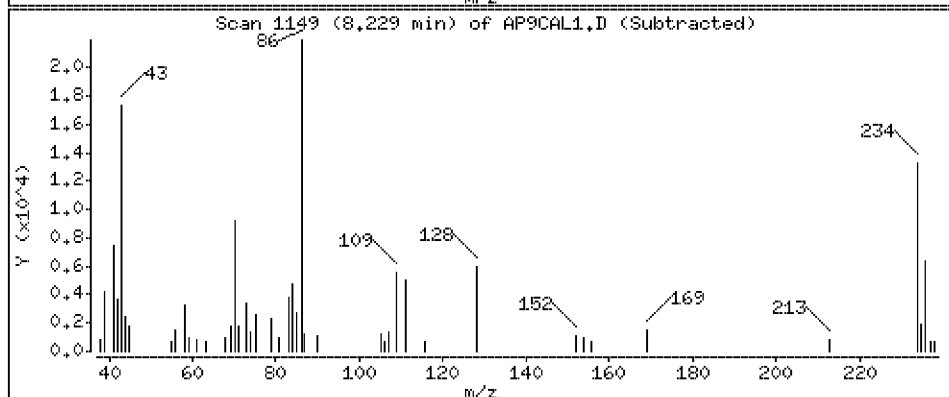
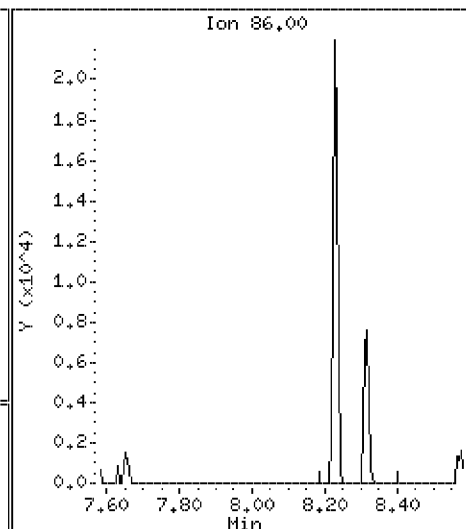
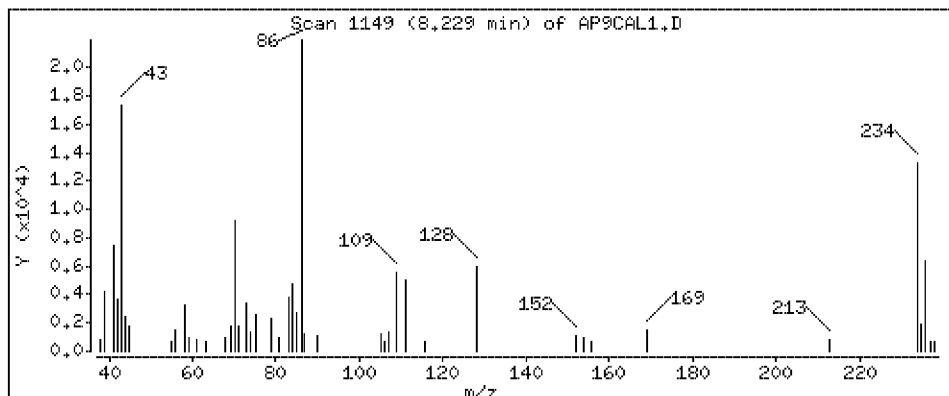
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

89 Diallate

Concentration: 3.3 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

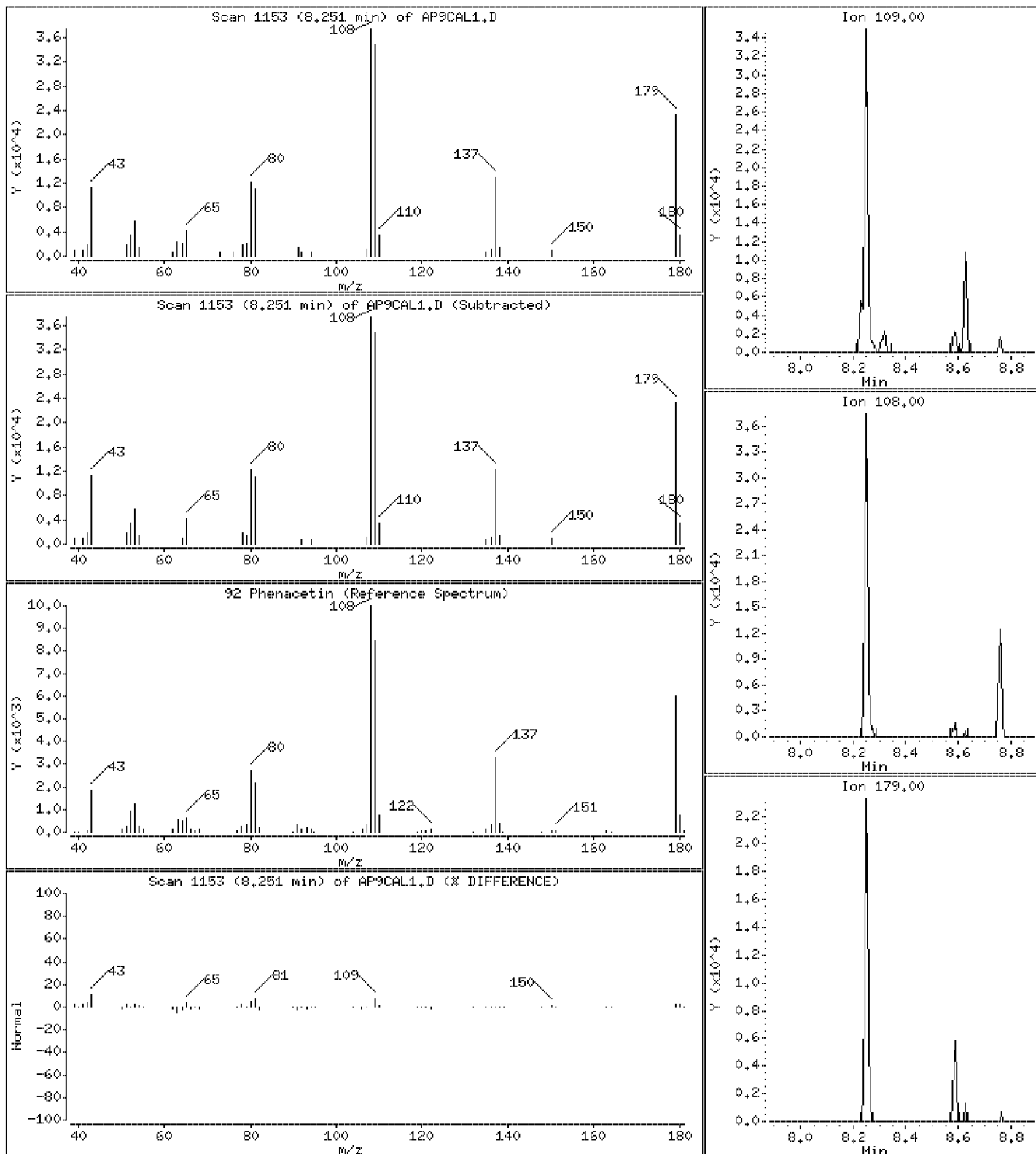
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

92 Phenacetin

Concentration: 4.0 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

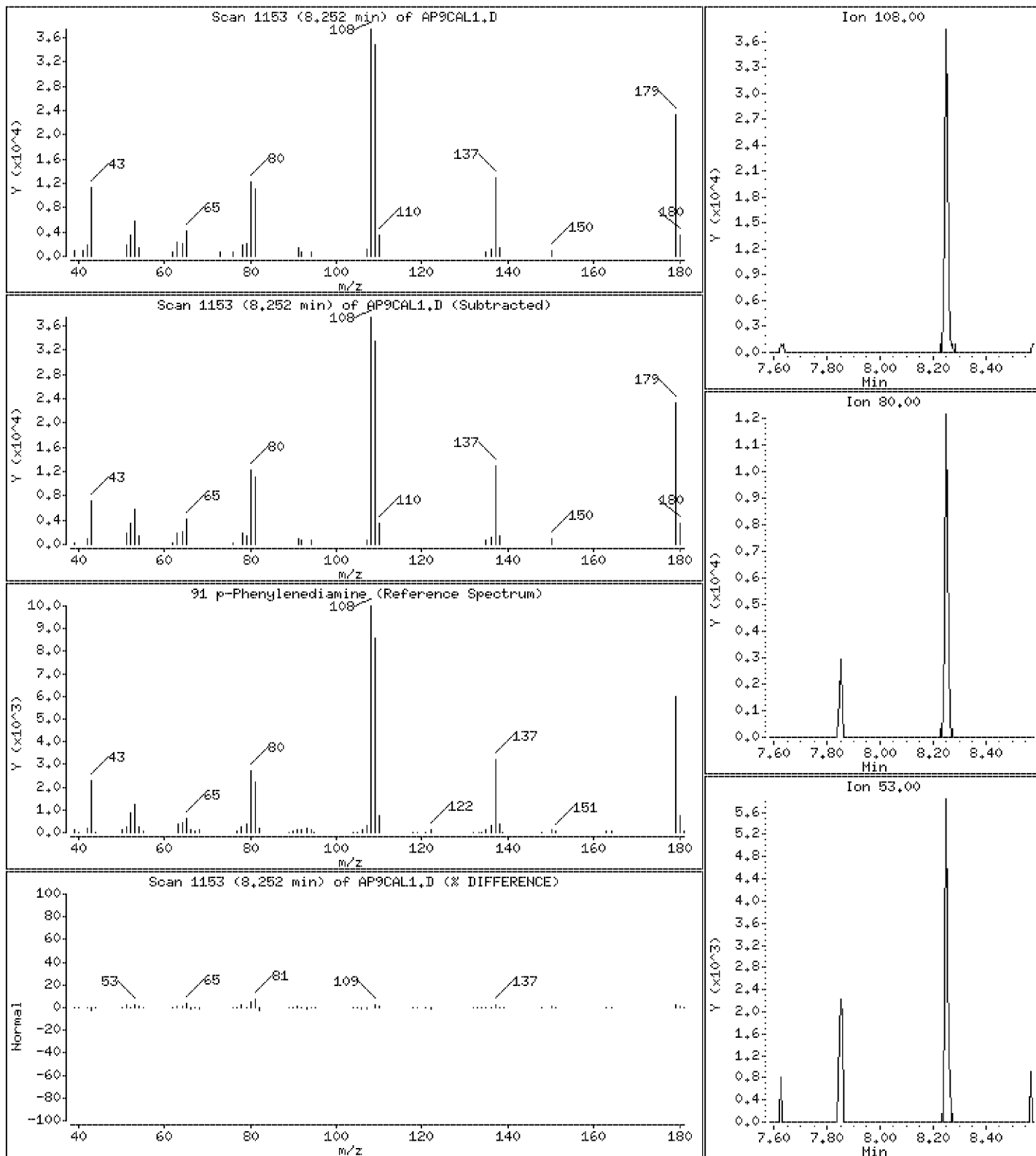
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

91 p-Phenylenediamine

Concentration: 3.3 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

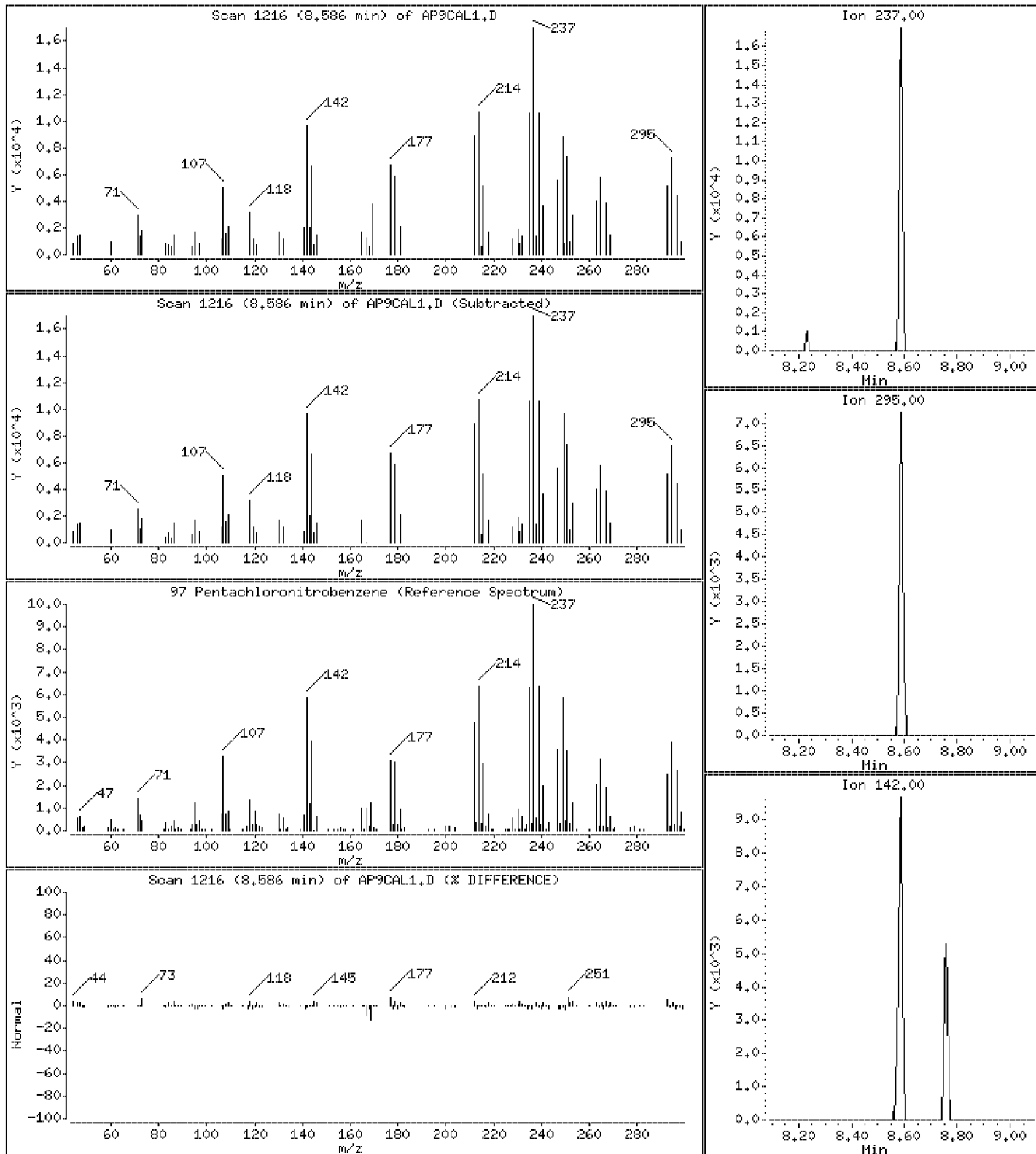
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

97 Pentachloronitrobenzene

Concentration: 3.4 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

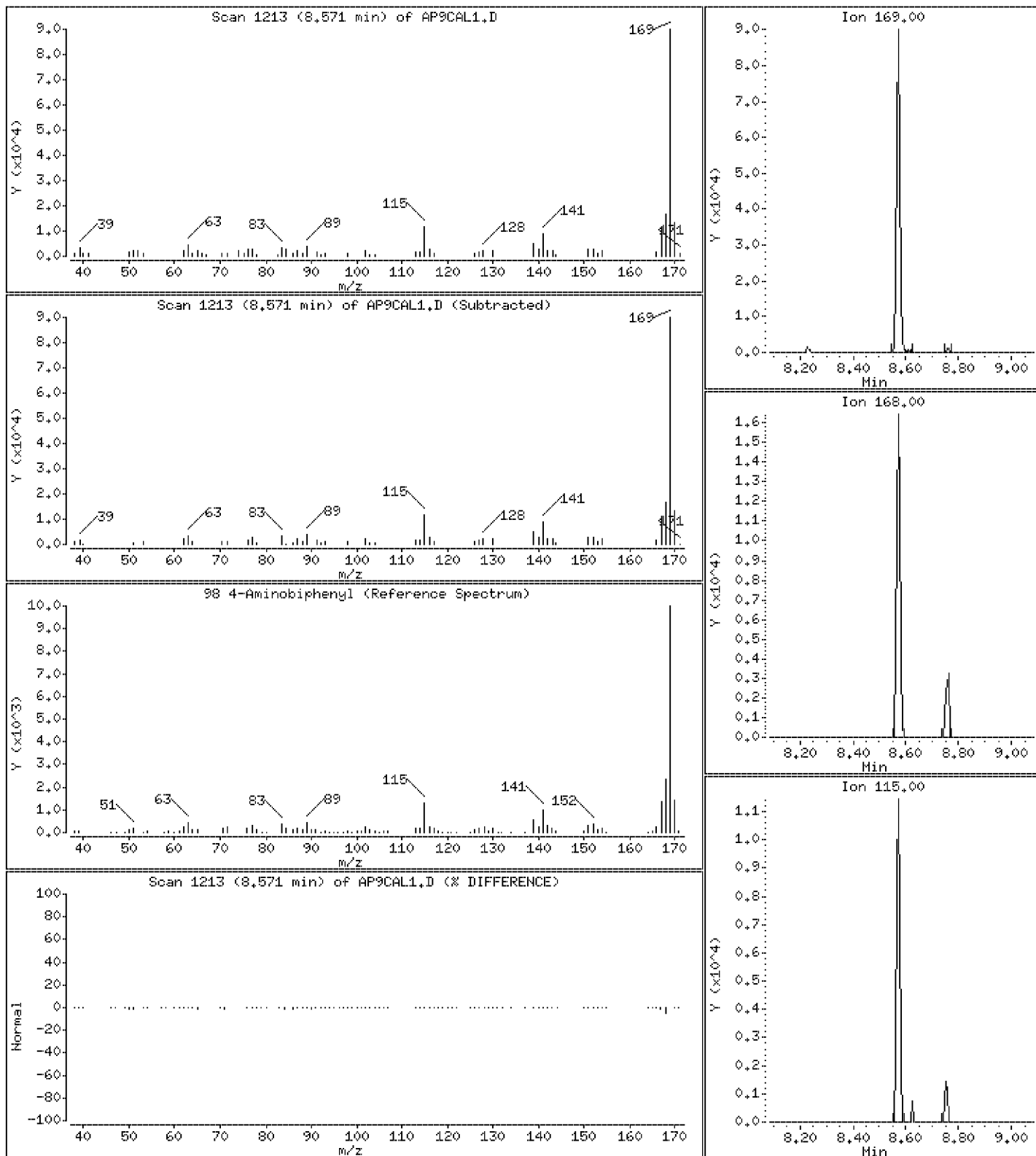
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

98 4-Aminobiphenyl

Concentration: 3.8 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

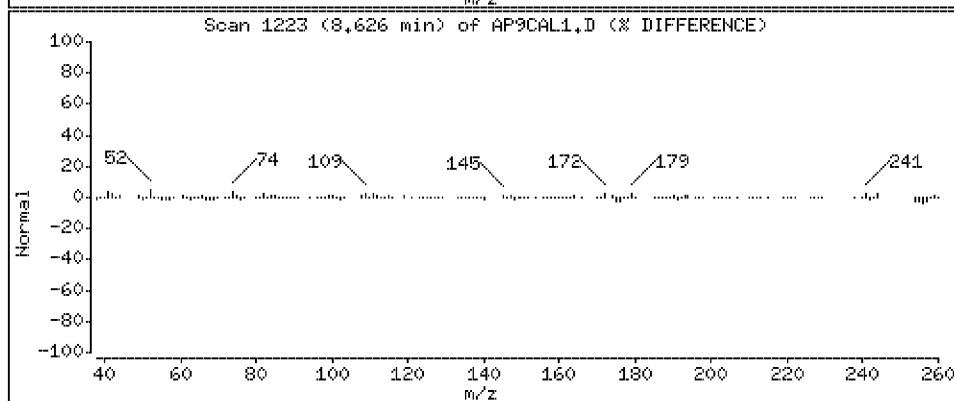
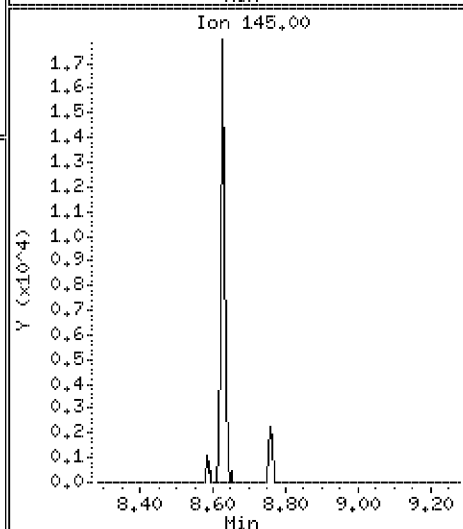
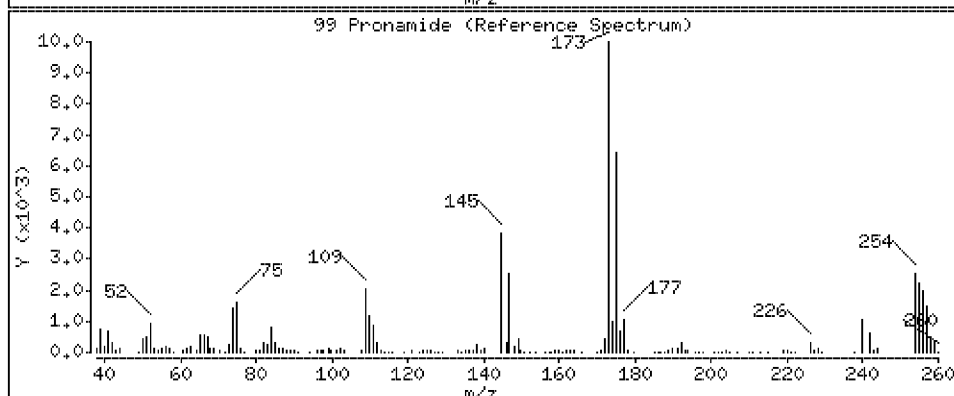
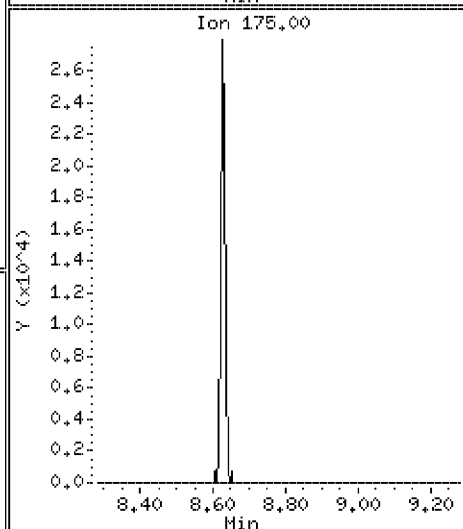
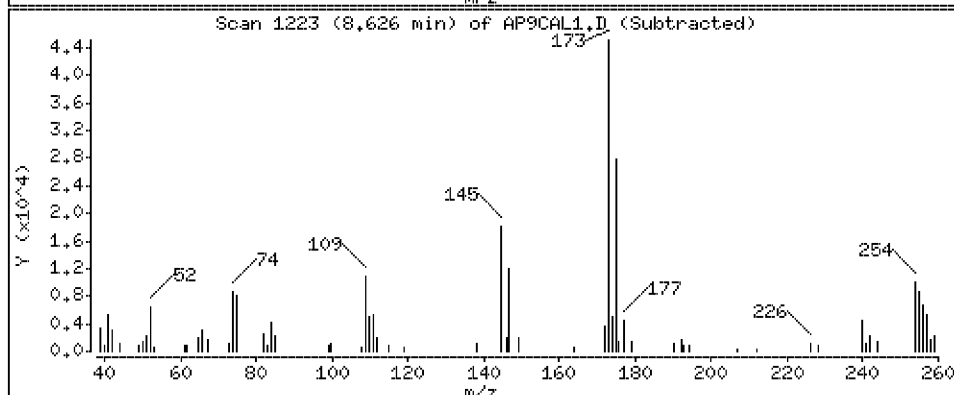
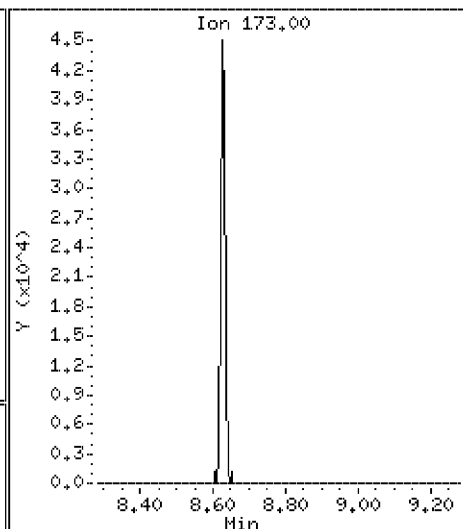
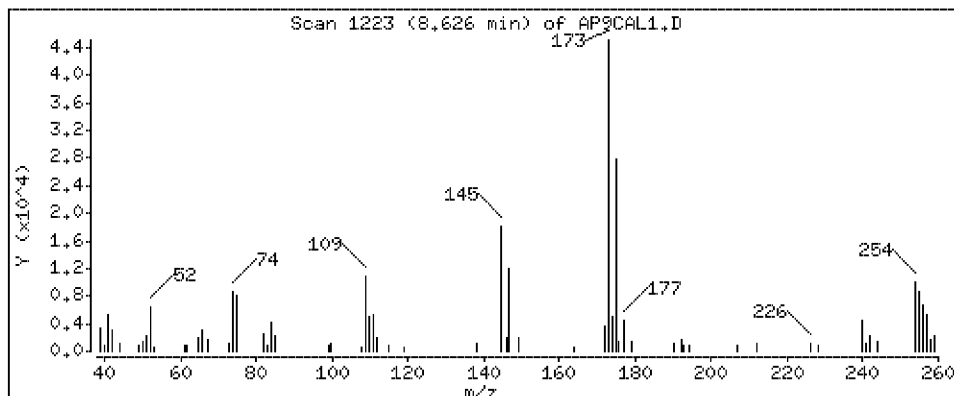
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

99 Pronamide

Concentration: 3.7 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

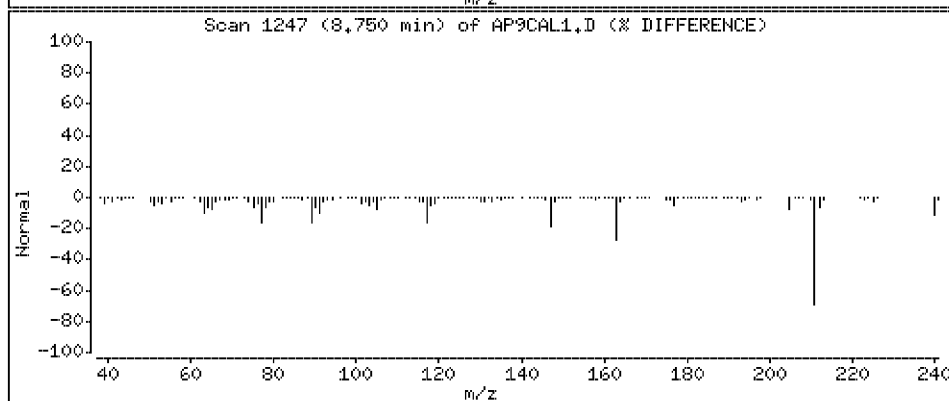
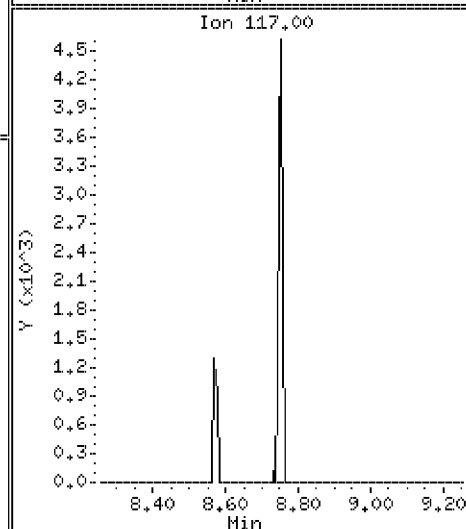
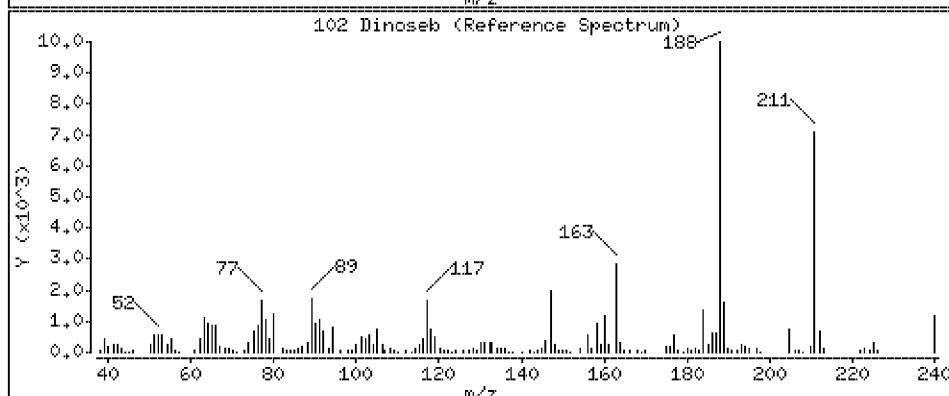
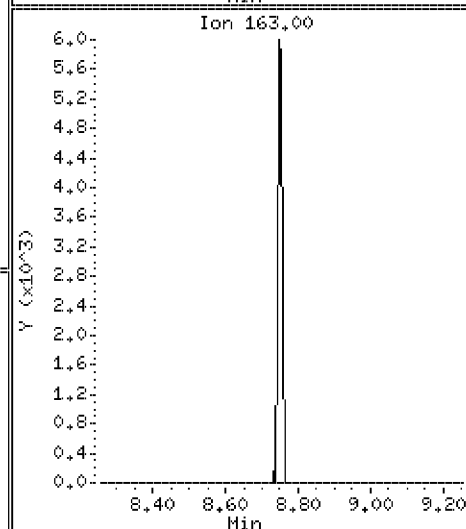
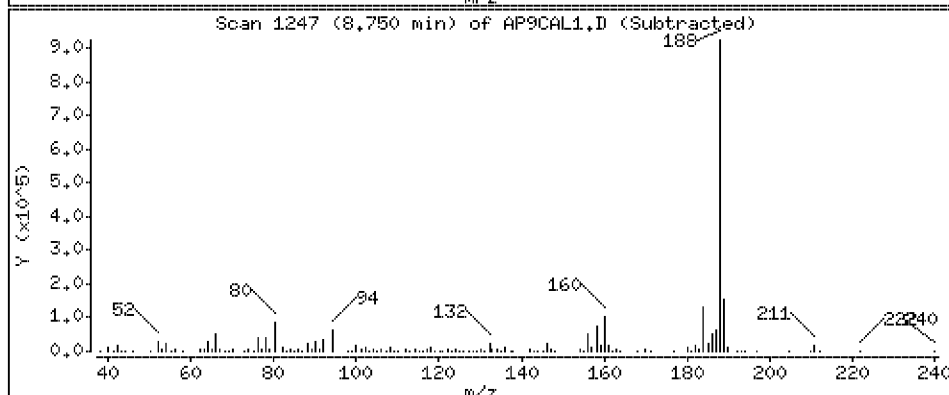
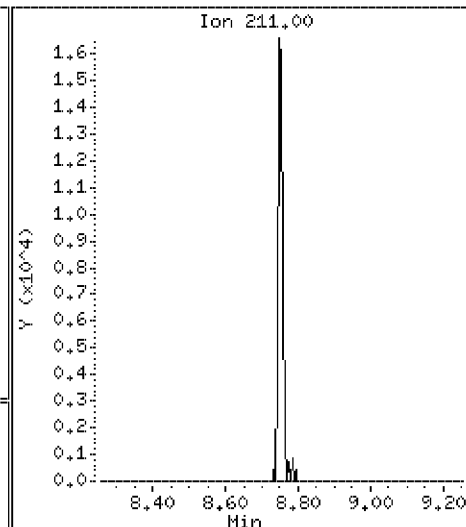
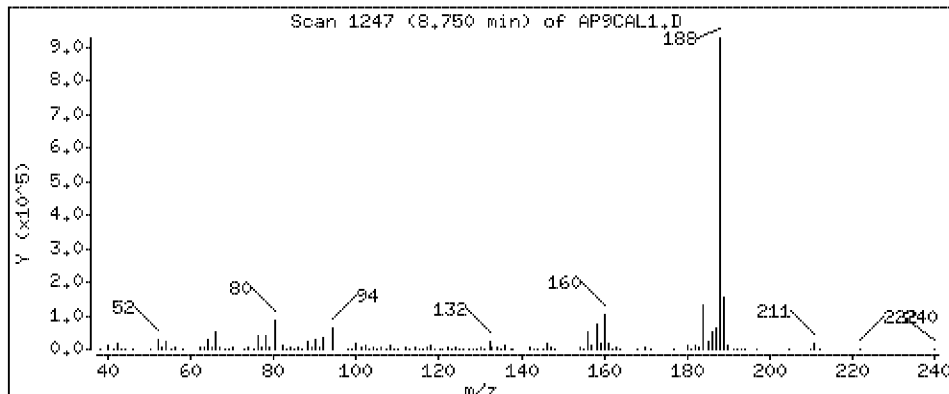
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

102 Dinoseb

Concentration: 5.3 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

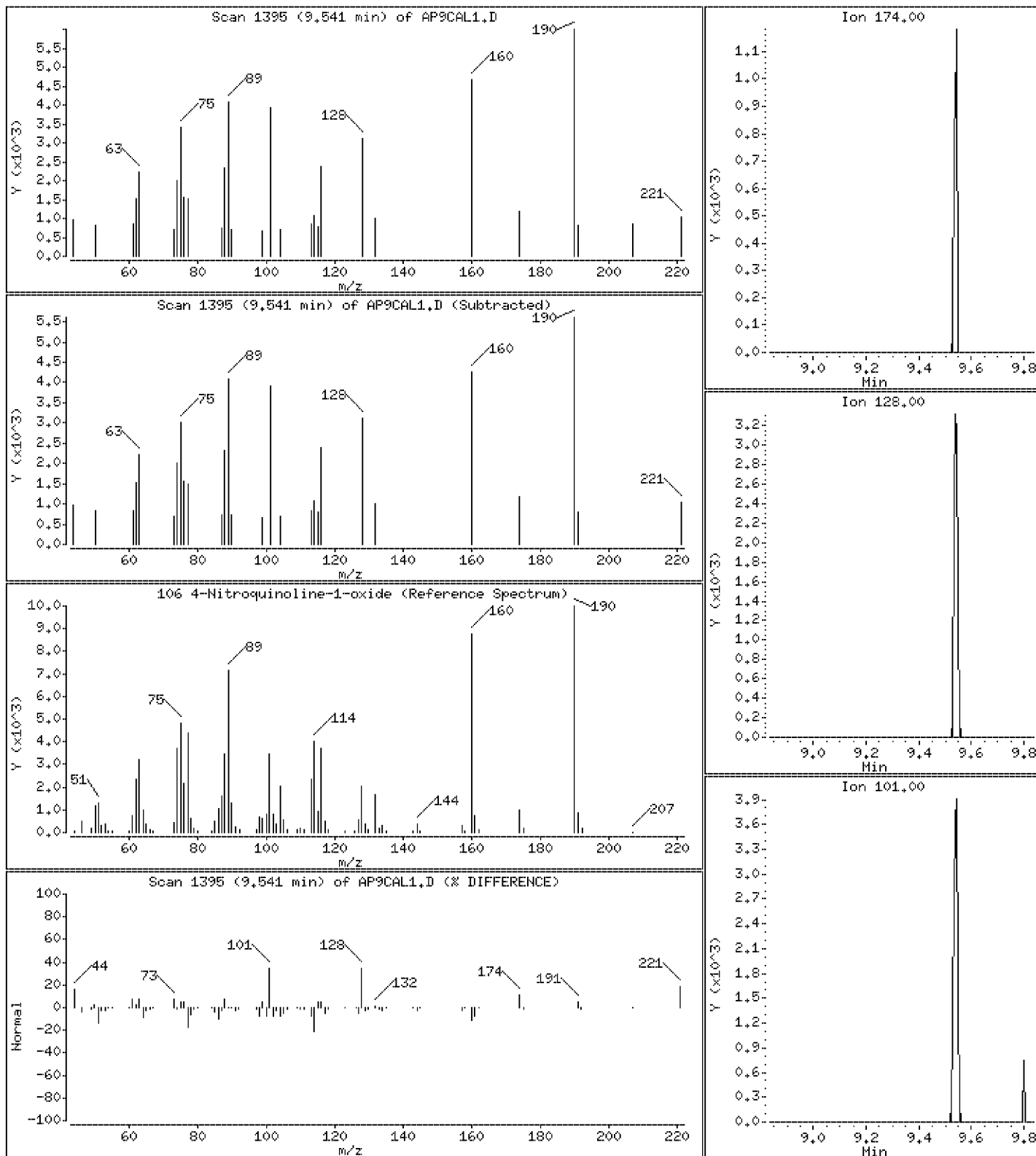
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

106 4-Nitroquinoline-1-oxide

Concentration: 3.6 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

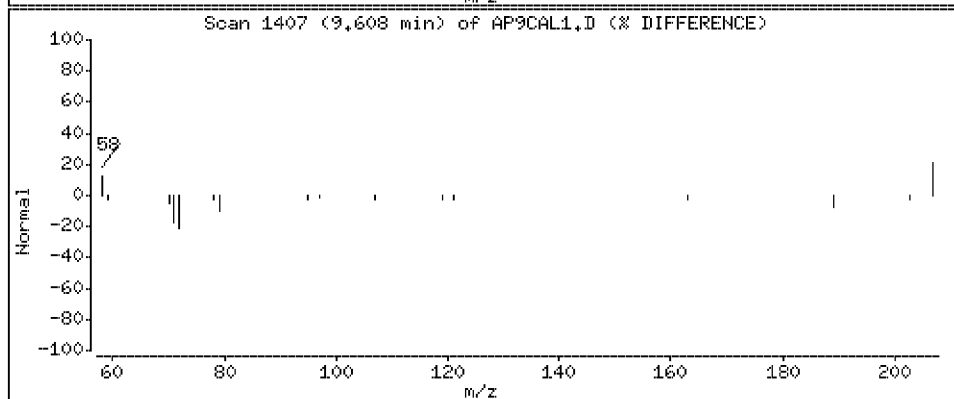
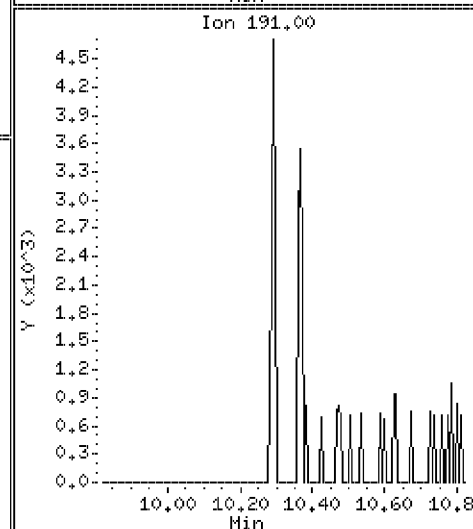
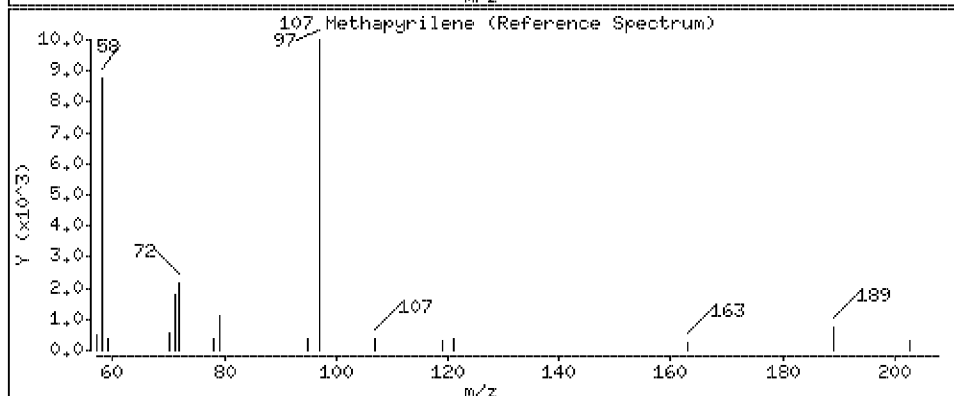
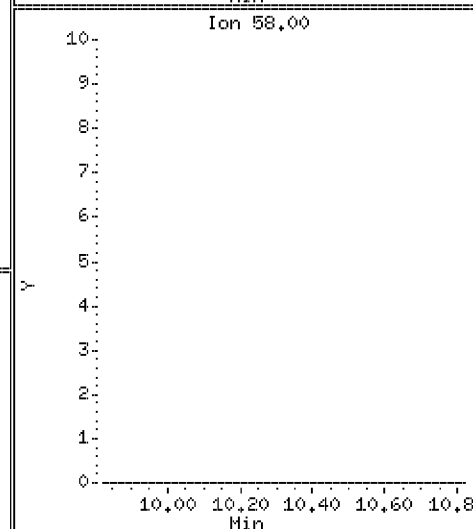
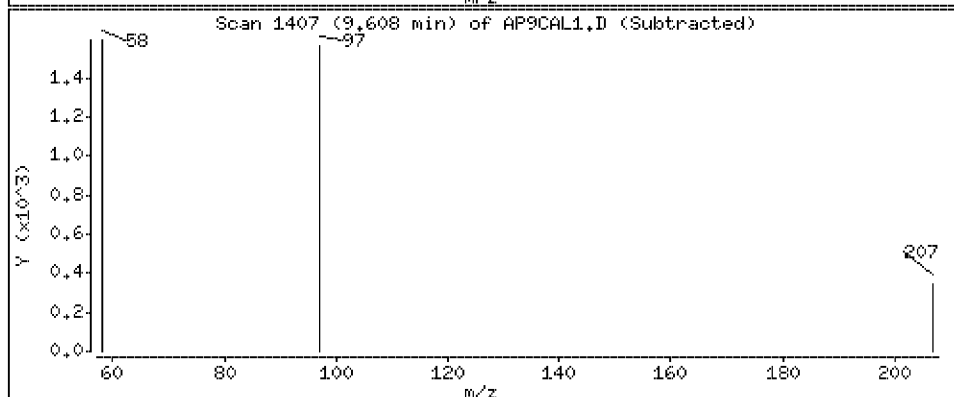
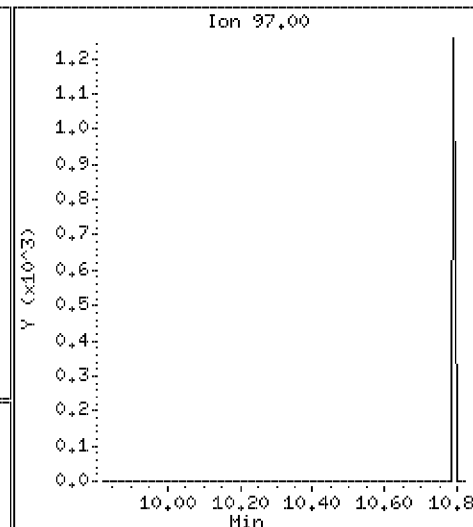
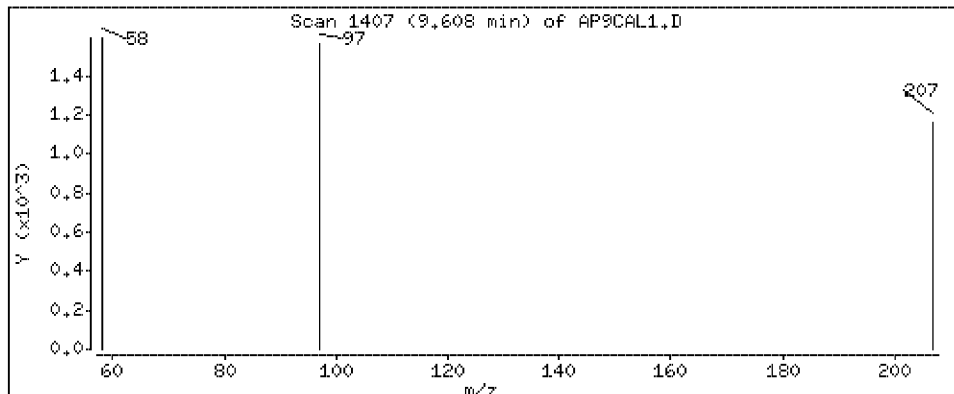
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

107 Methapyrilene

Concentration: 3.3 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

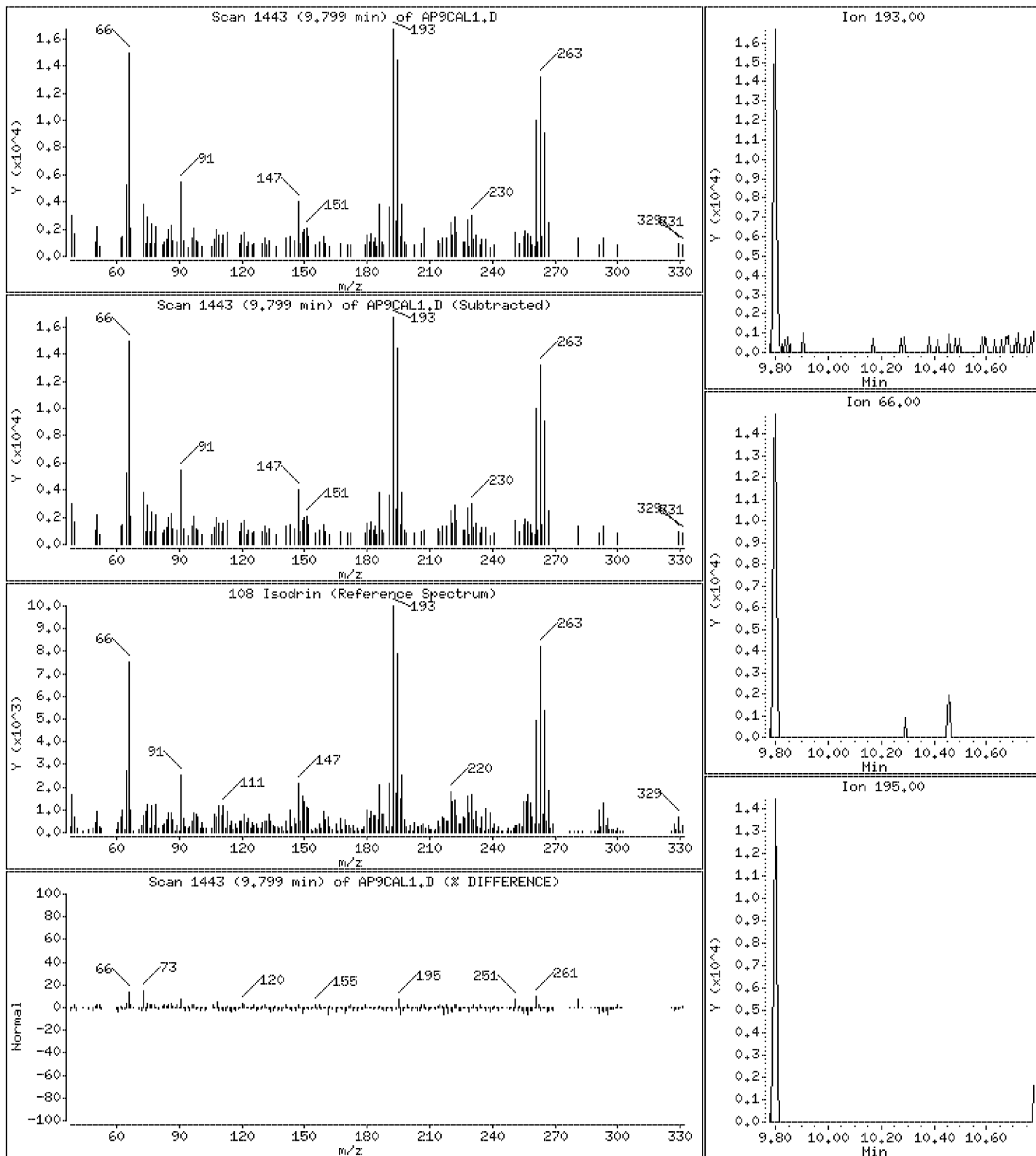
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

108 Isodrin

Concentration: 3.8 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

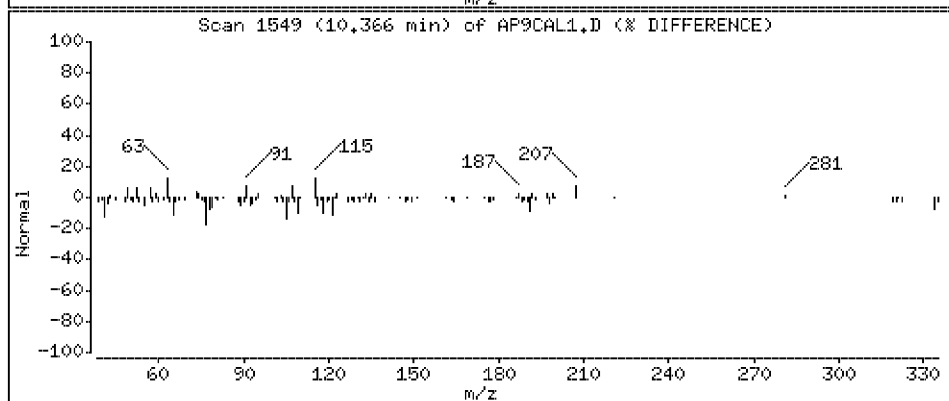
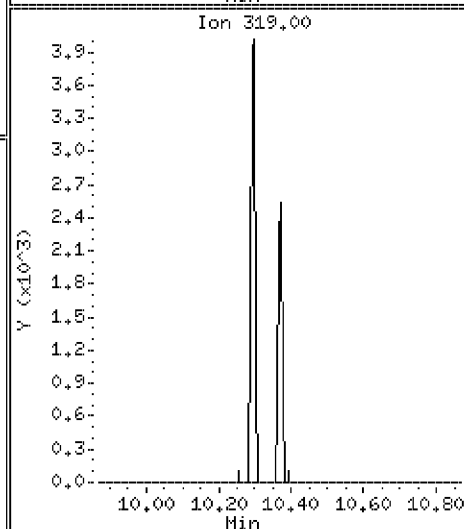
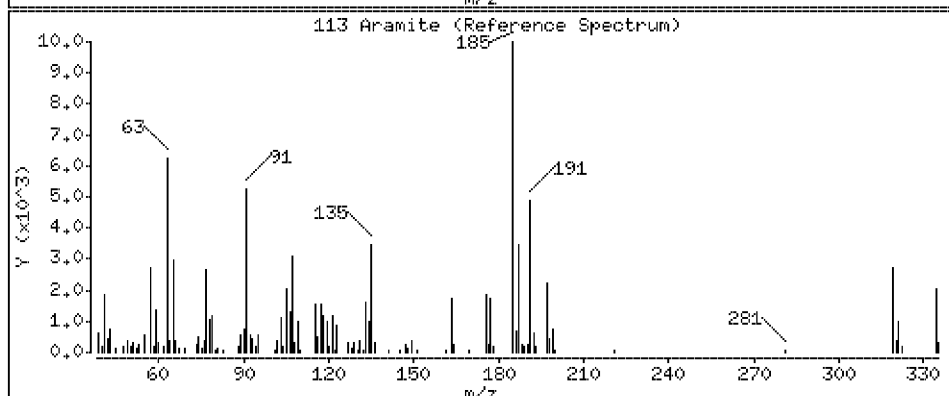
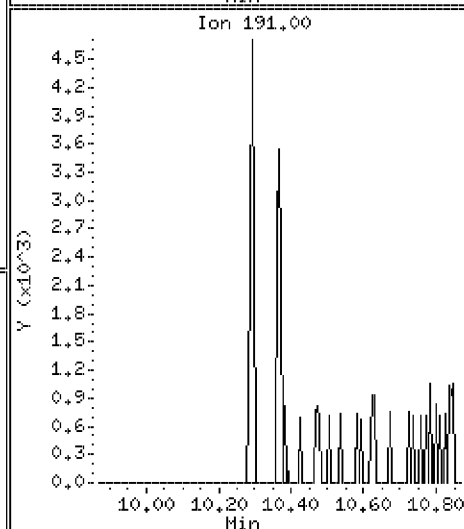
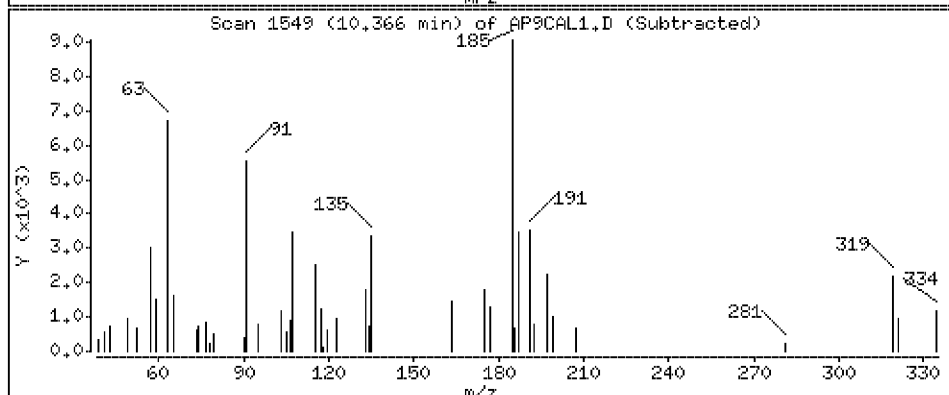
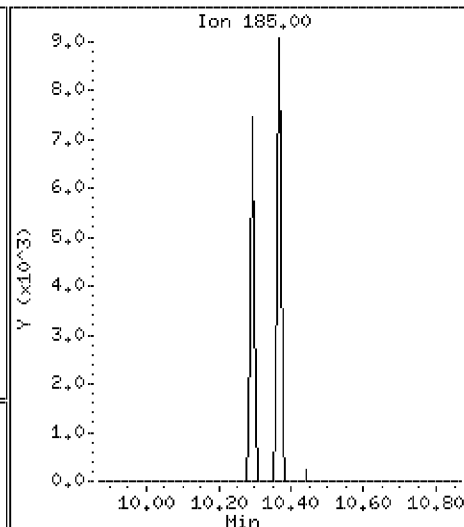
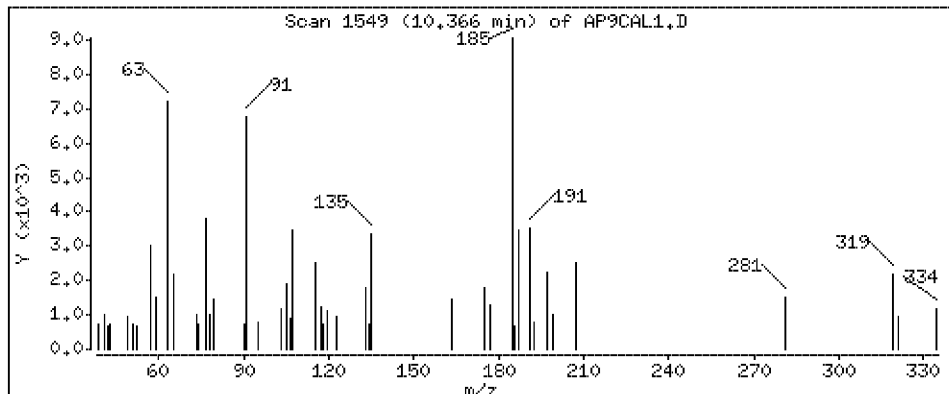
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

113 Aramite

Concentration: 3.4 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

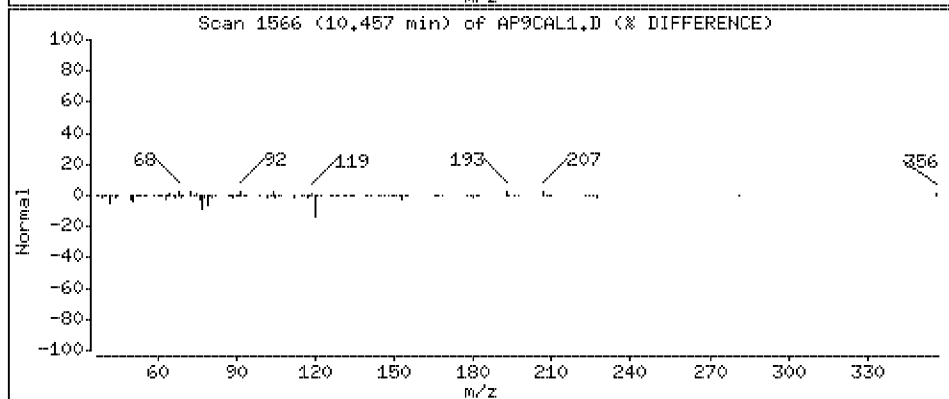
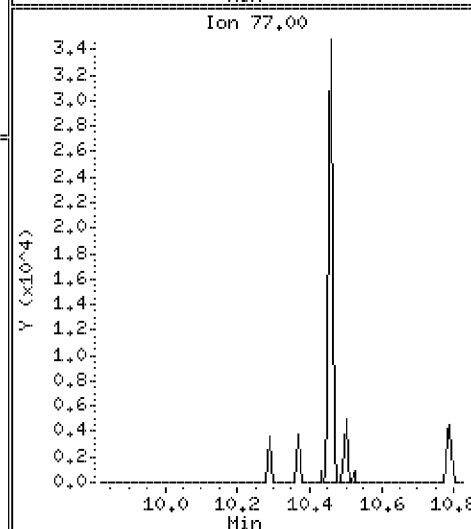
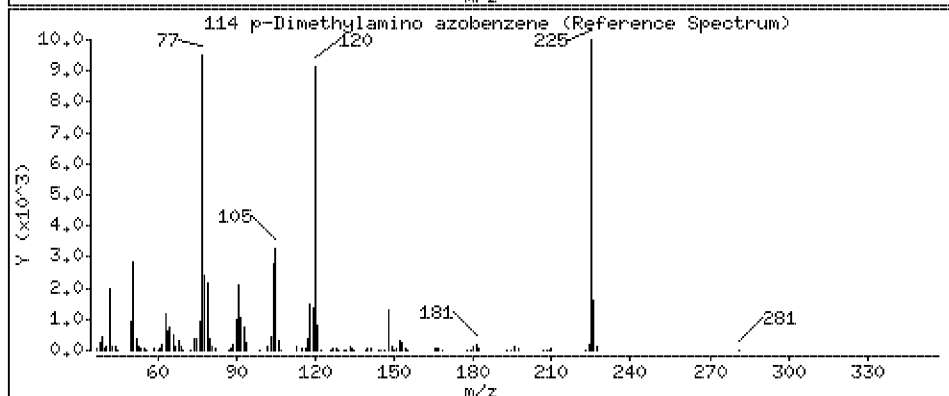
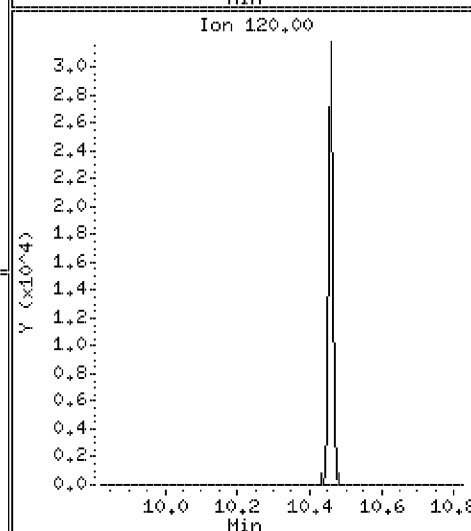
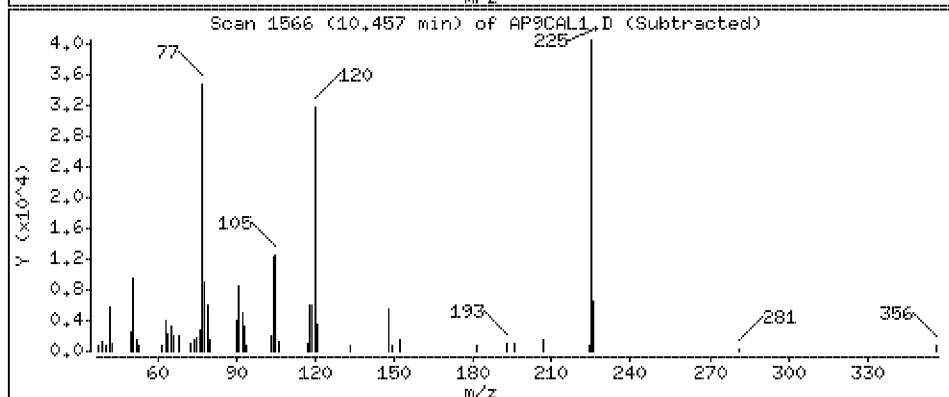
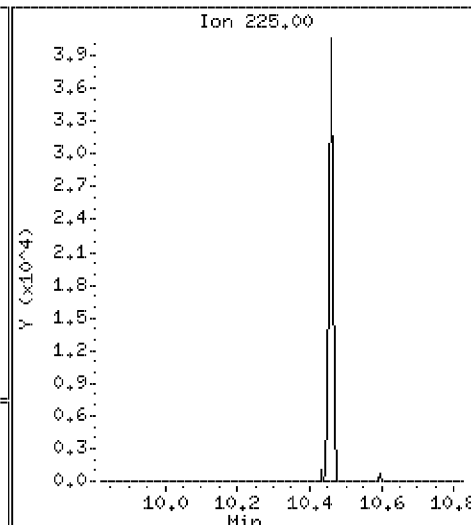
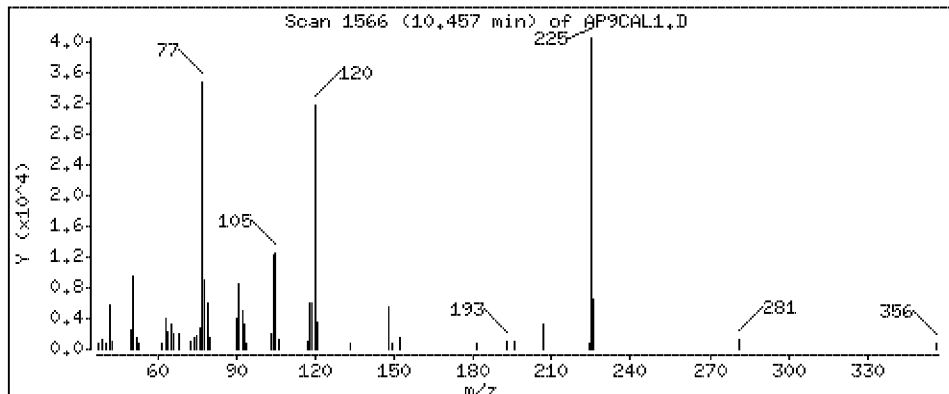
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

114 p-Dimethylamino azobenzene

Concentration: 3.4 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

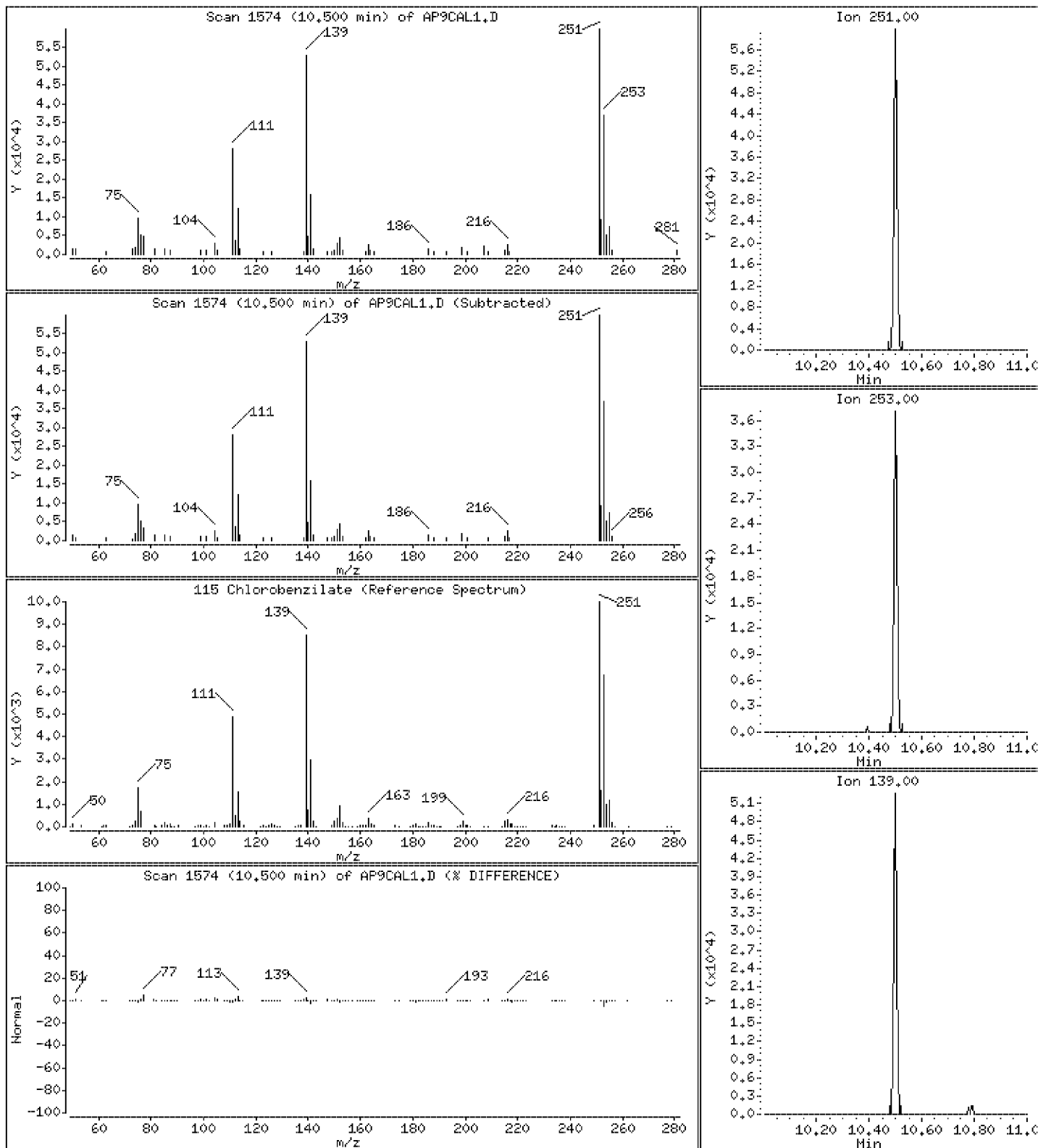
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

115 Chlorobenzilate

Concentration: 3.5 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

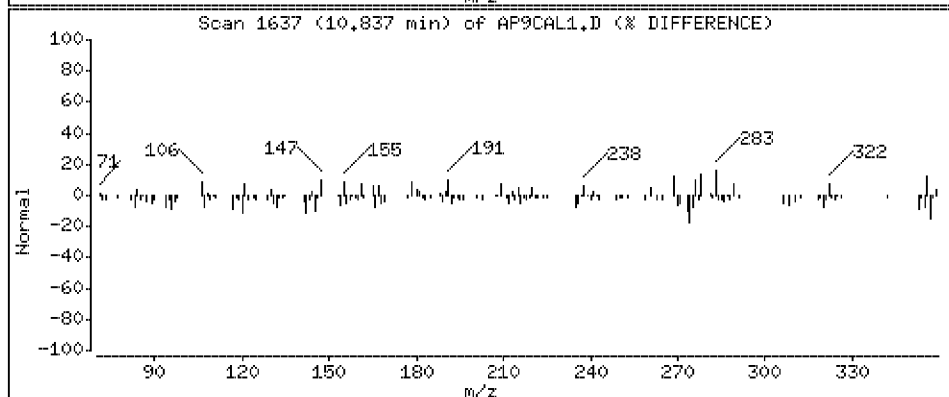
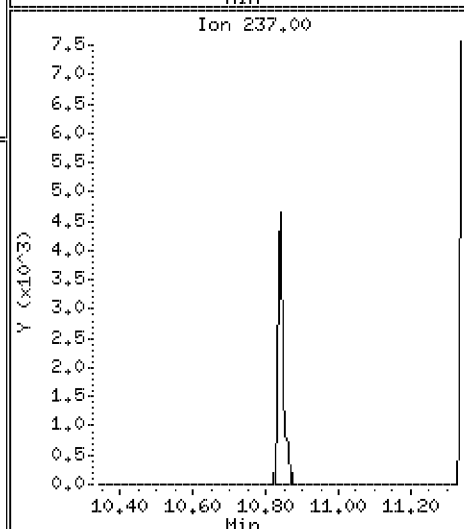
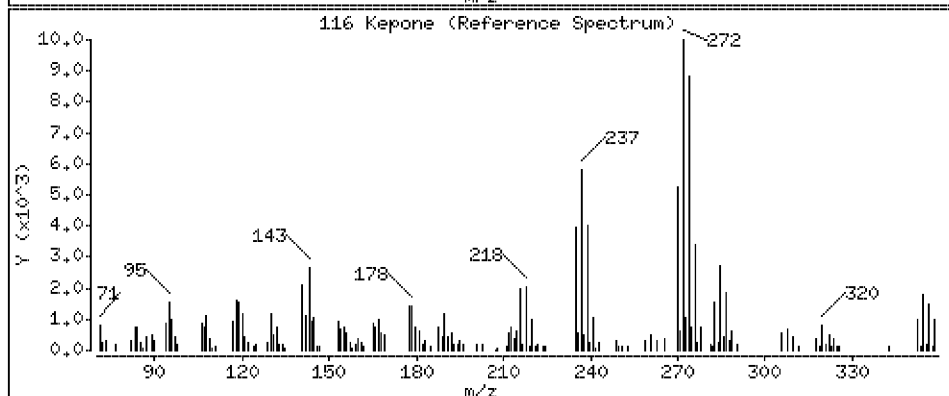
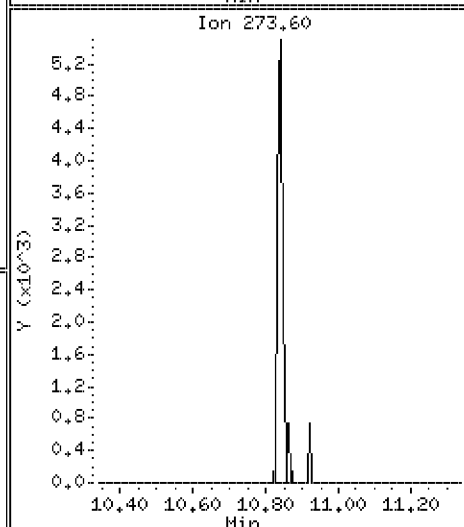
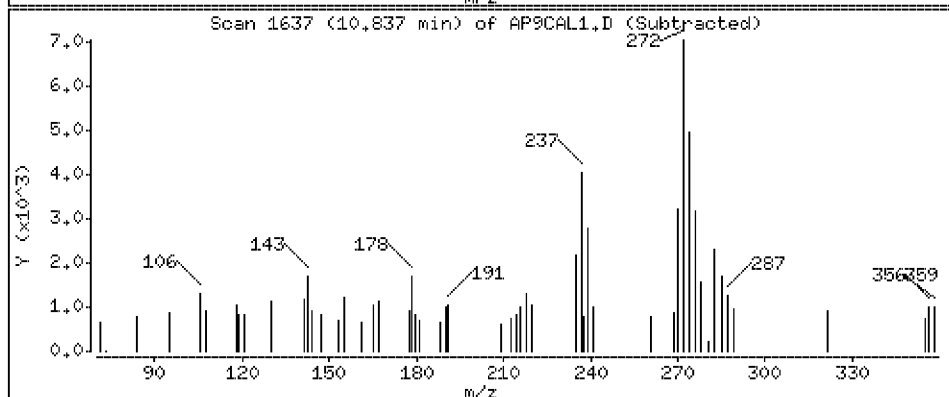
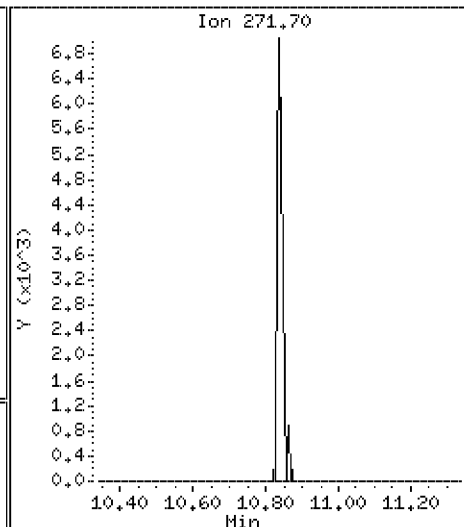
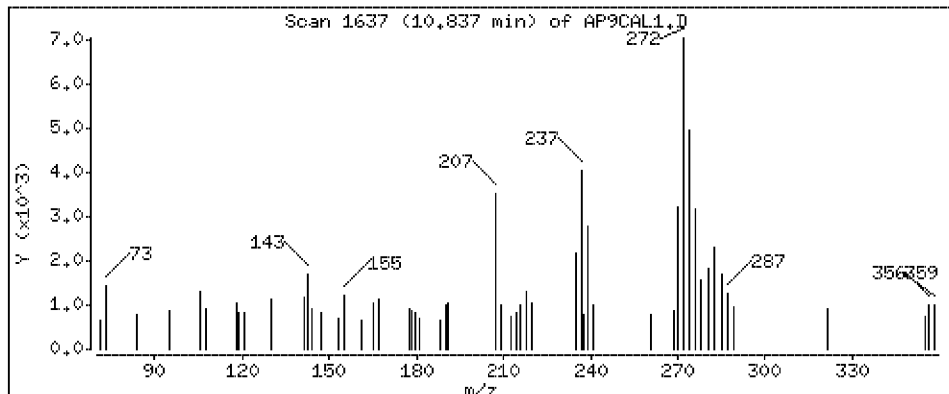
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

116 Kepone

Concentration: 3.0 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

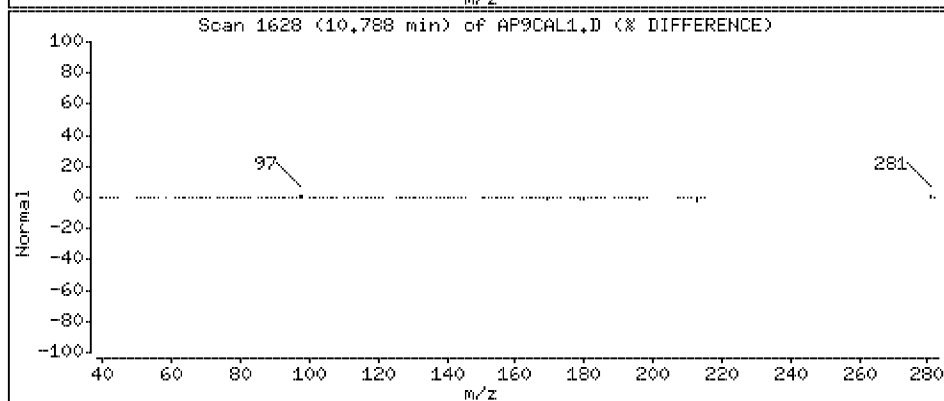
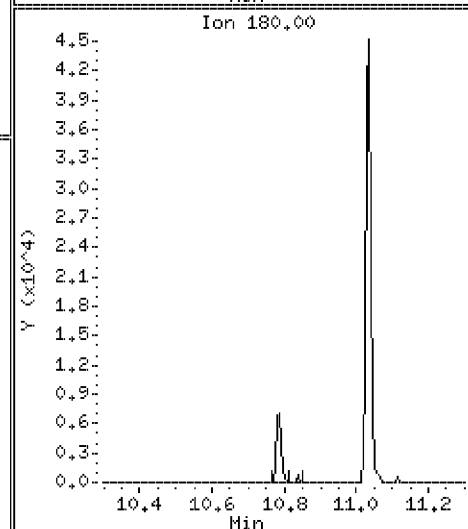
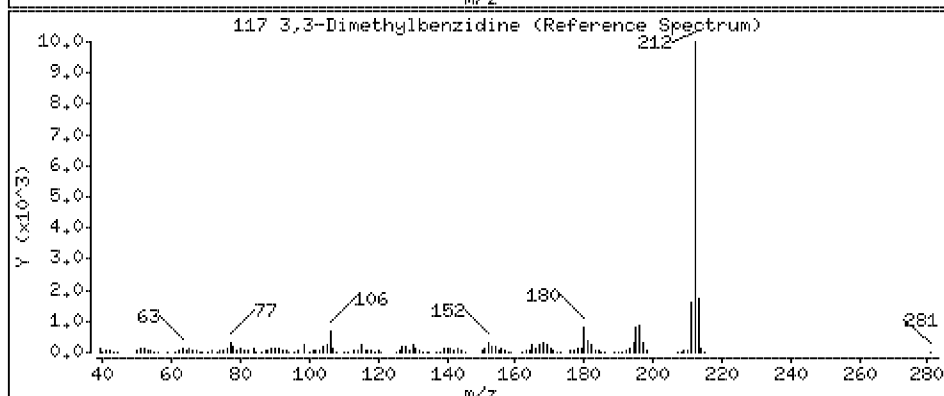
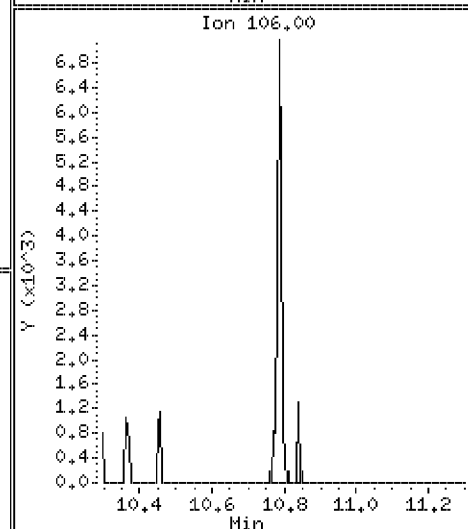
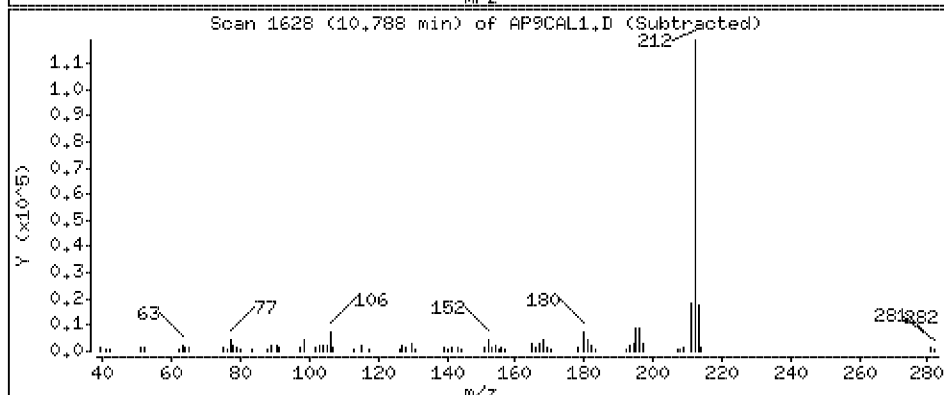
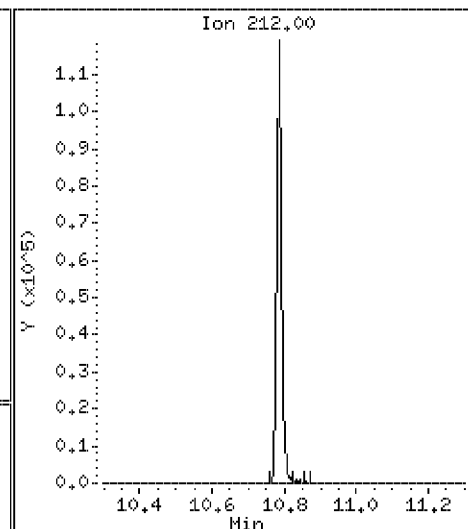
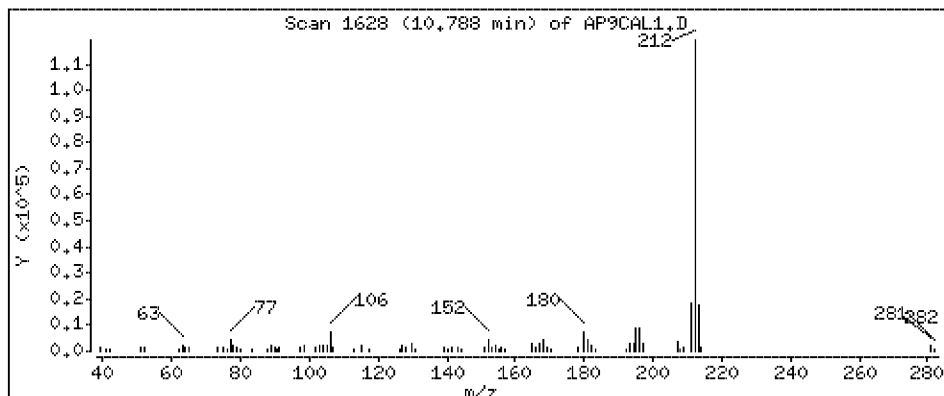
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

117 3,3-Dimethylbenzidine

Concentration: 3.7 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

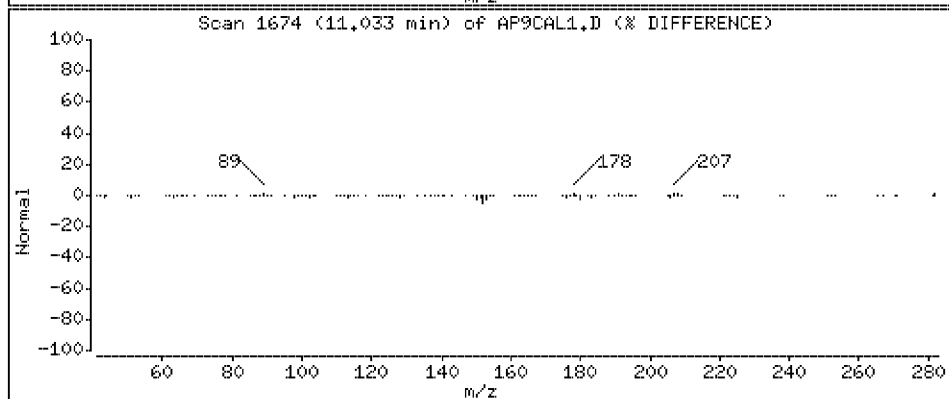
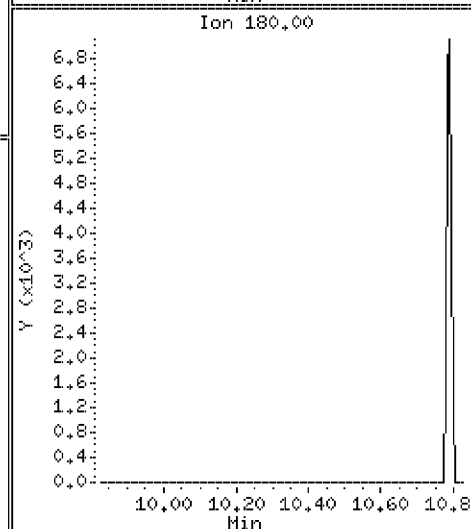
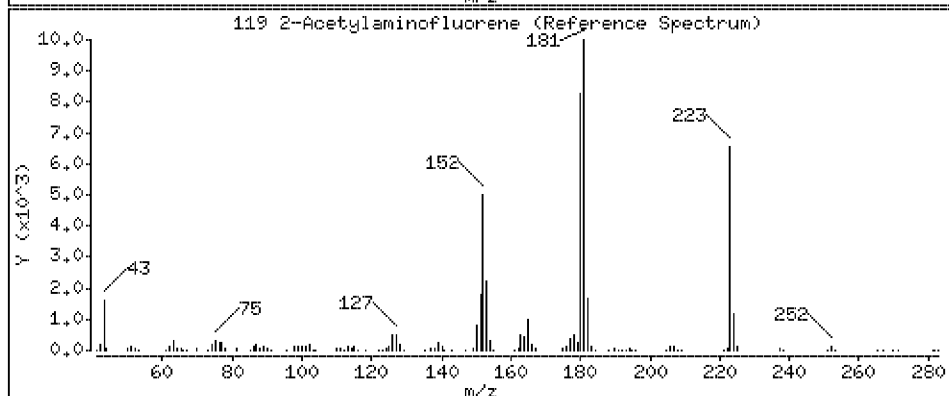
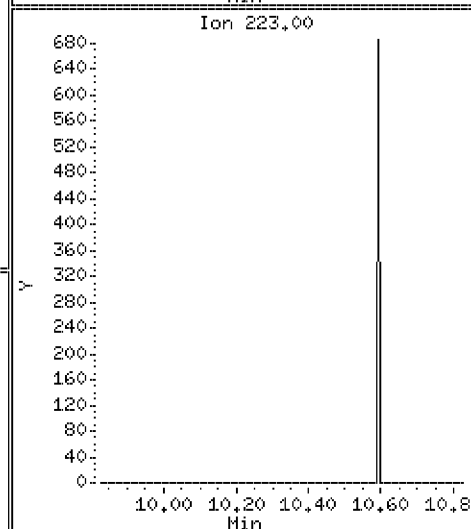
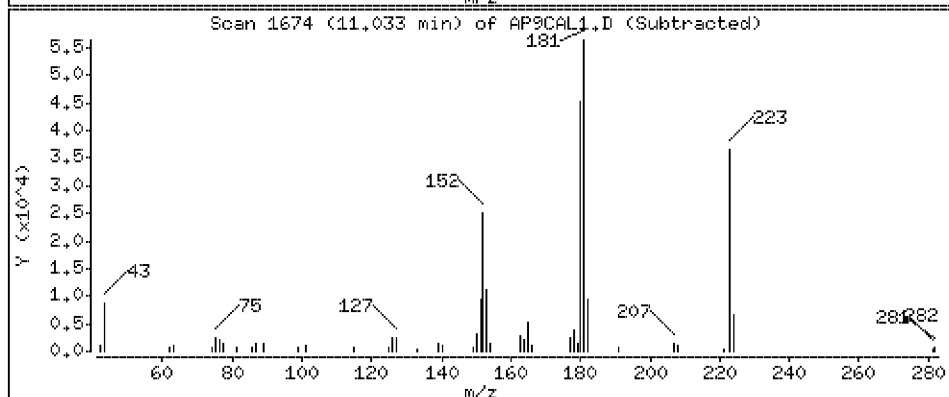
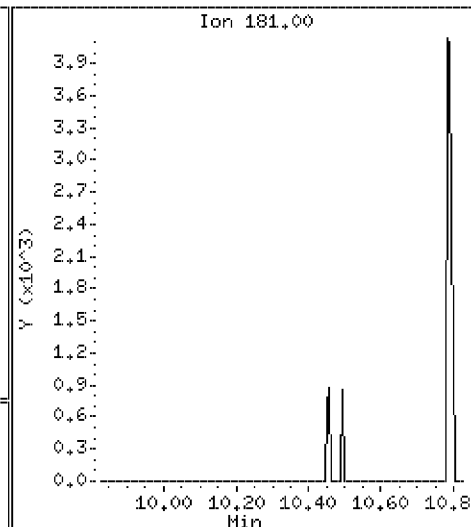
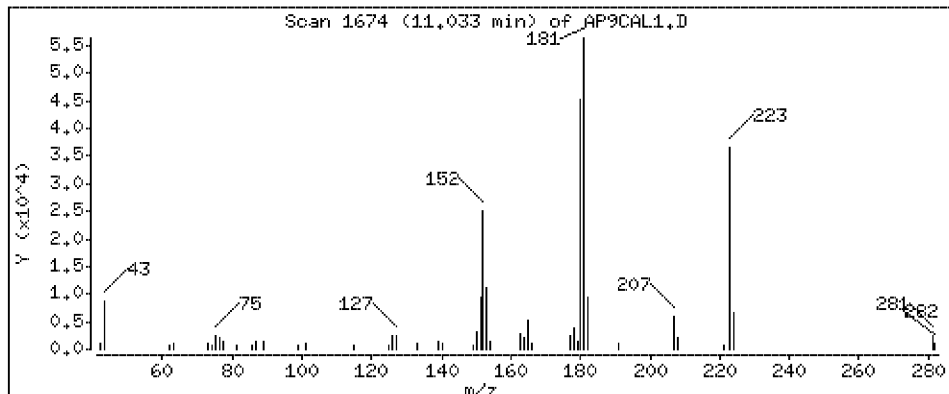
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

119 2-Acetylaminofluorene

Concentration: 3.1 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

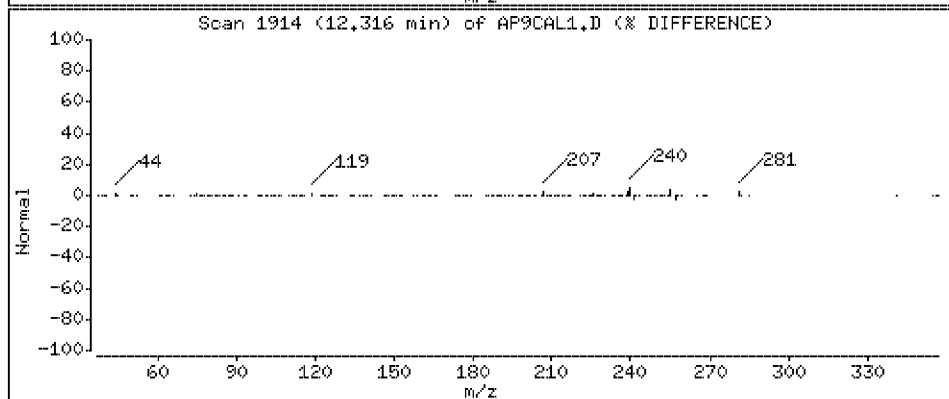
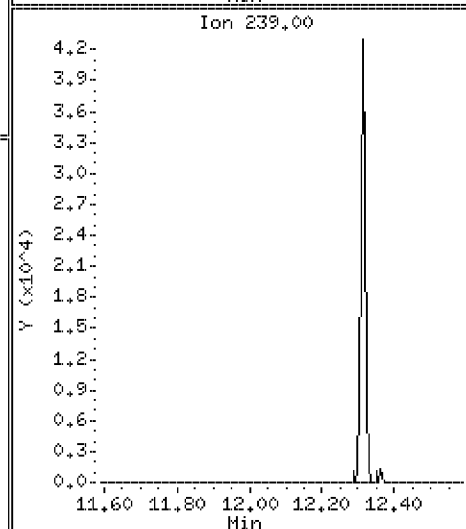
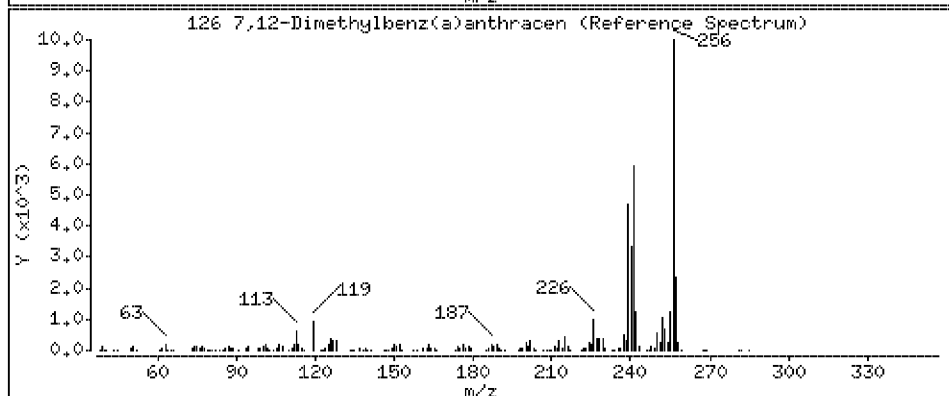
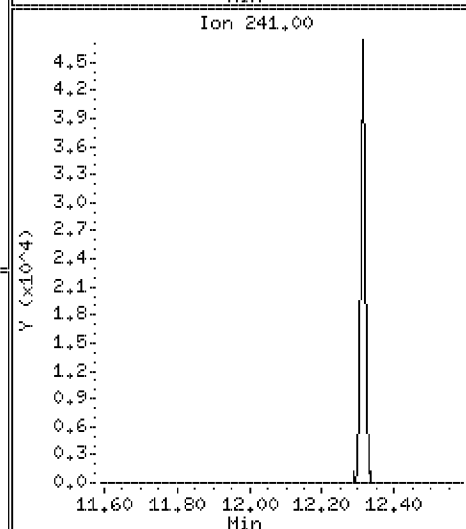
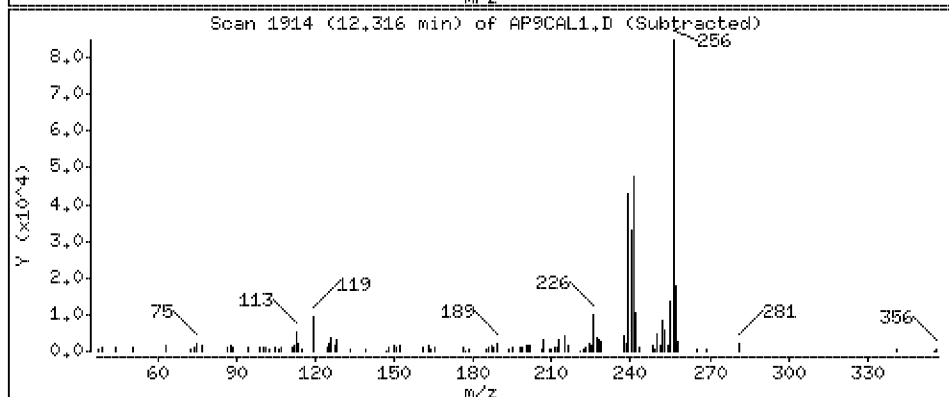
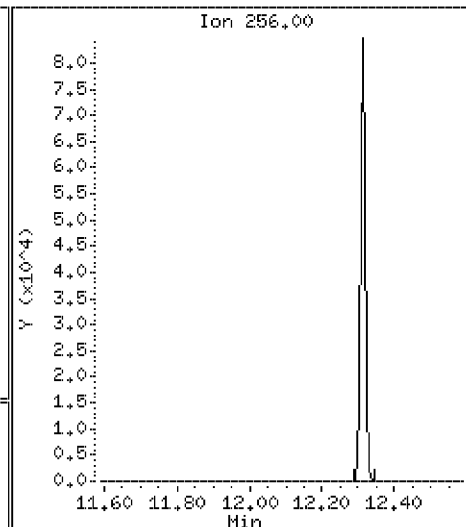
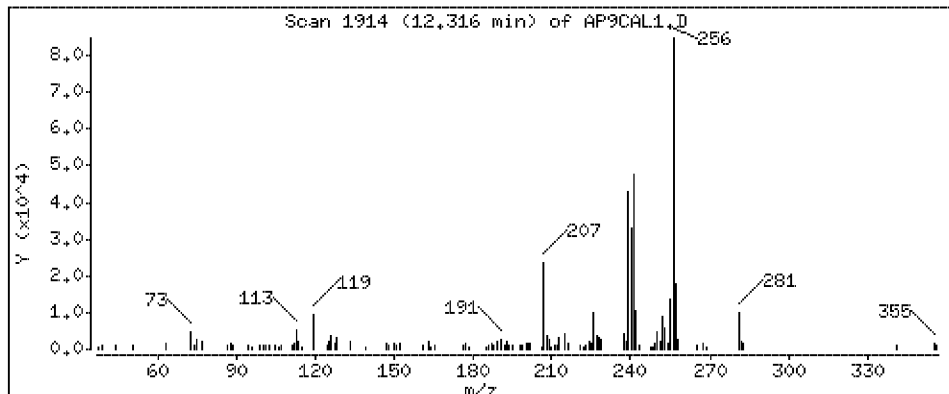
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

126 7,12-Dimethylbenz(a)anthracen

Concentration: 3.4 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

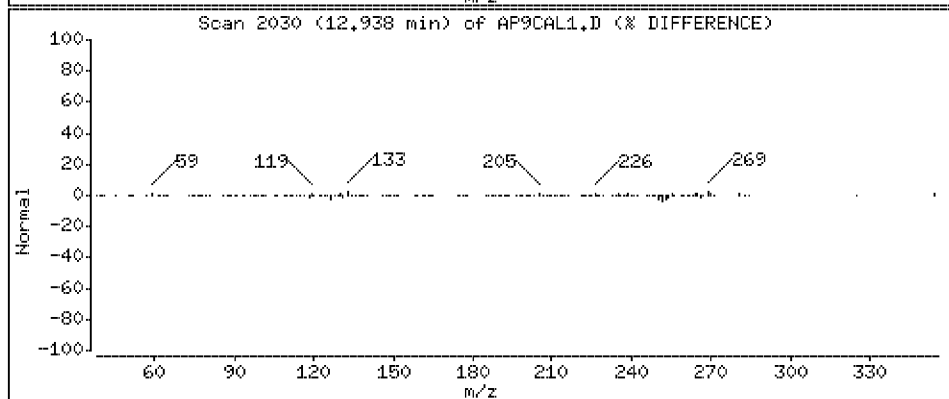
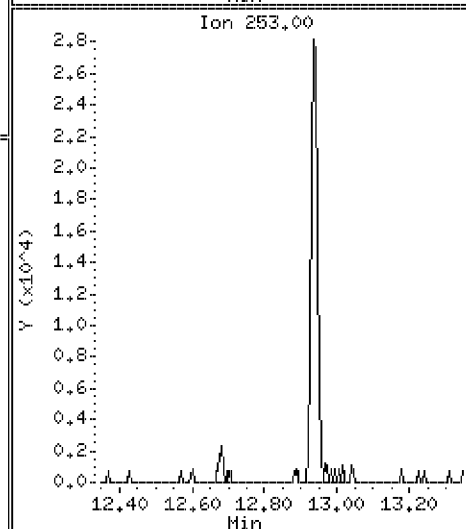
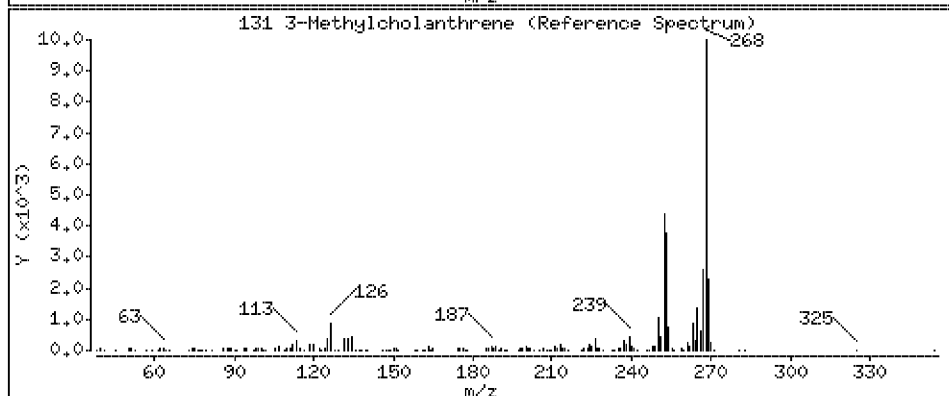
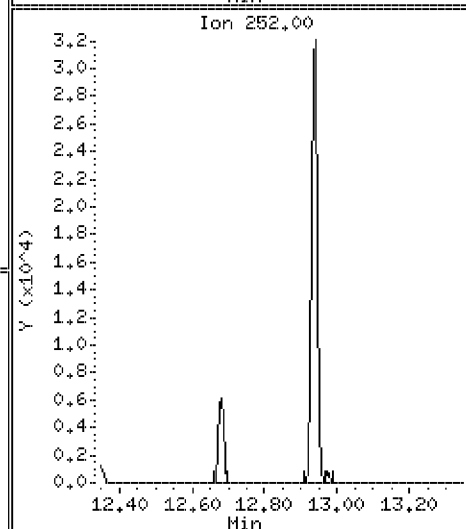
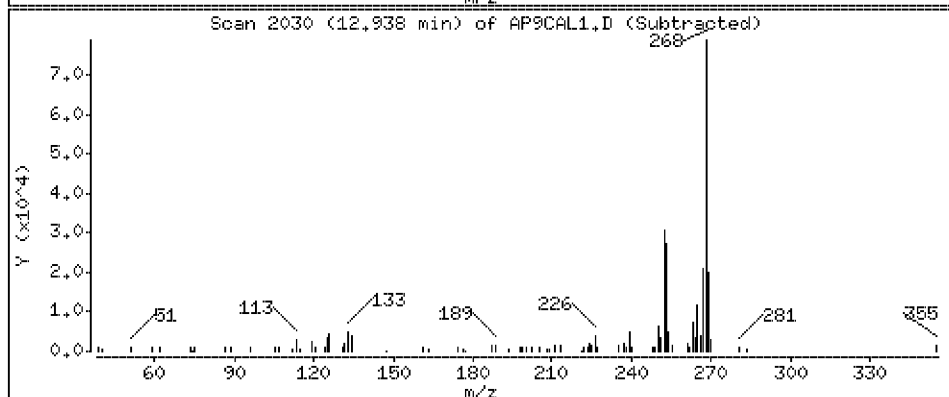
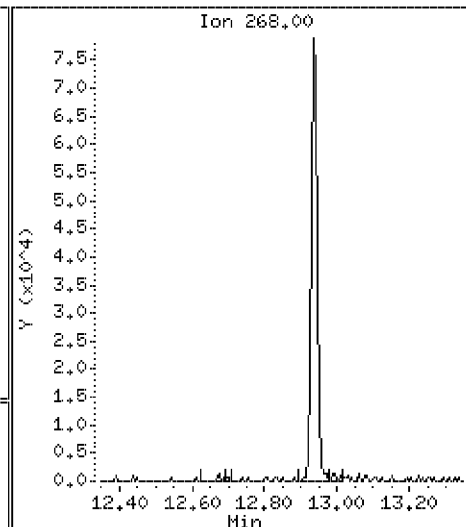
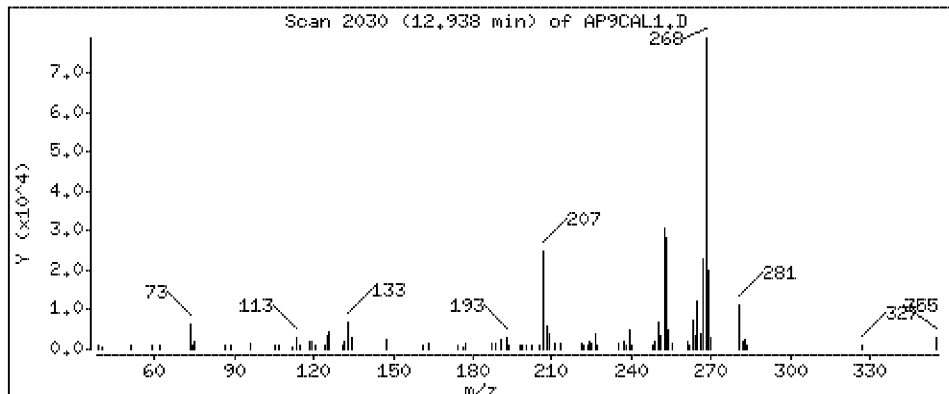
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

131 3-Methylcholanthrene

Concentration: 3.5 ug/l



Date : 23-APR-2012 19:28

Client ID: AP9CAL1

Instrument: smsd03.i

Sample Info: 45961

Purge Volume: 1000.0

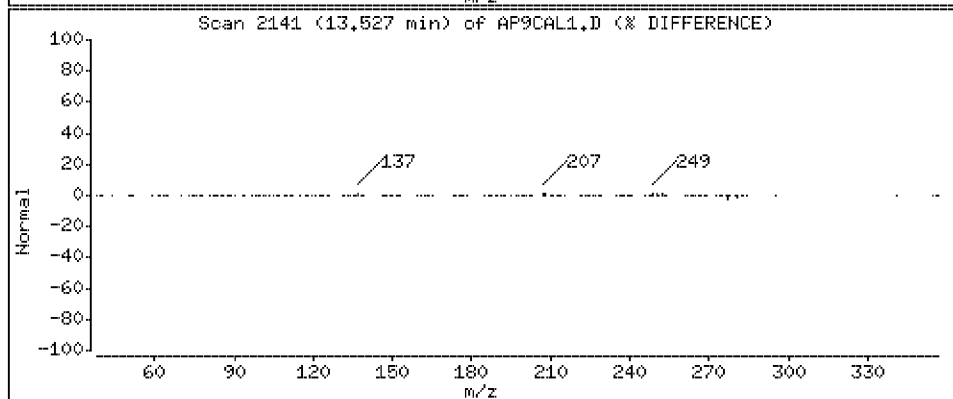
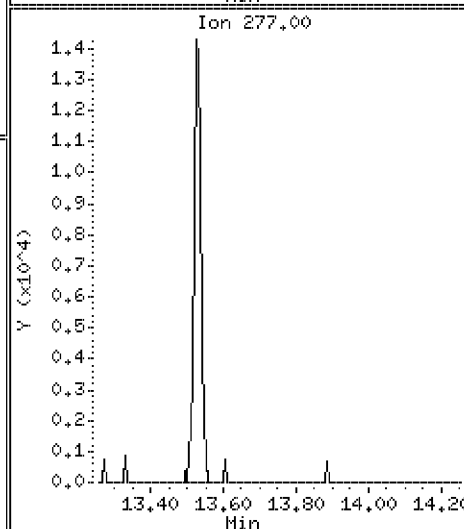
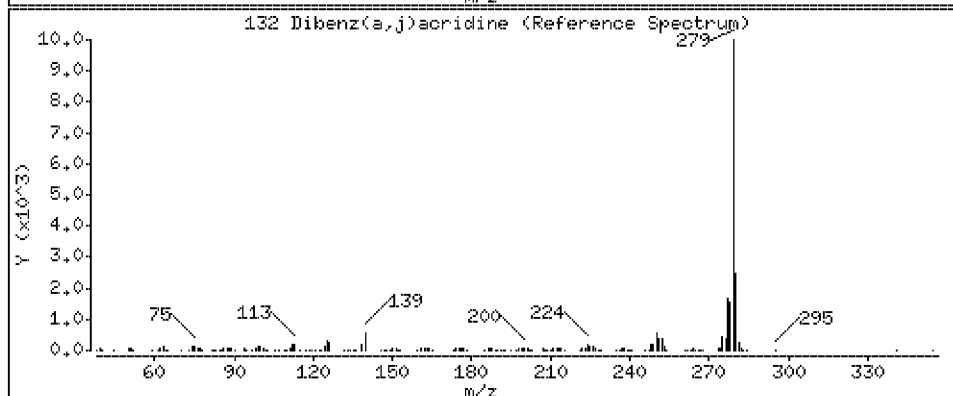
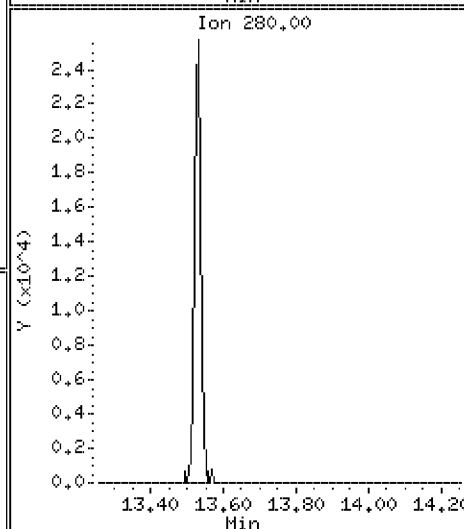
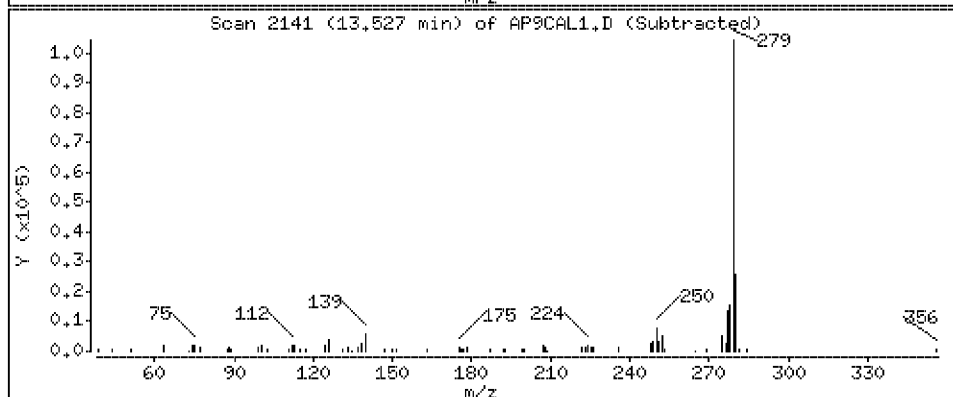
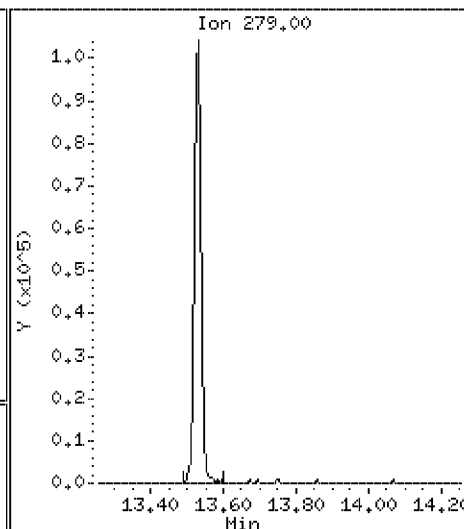
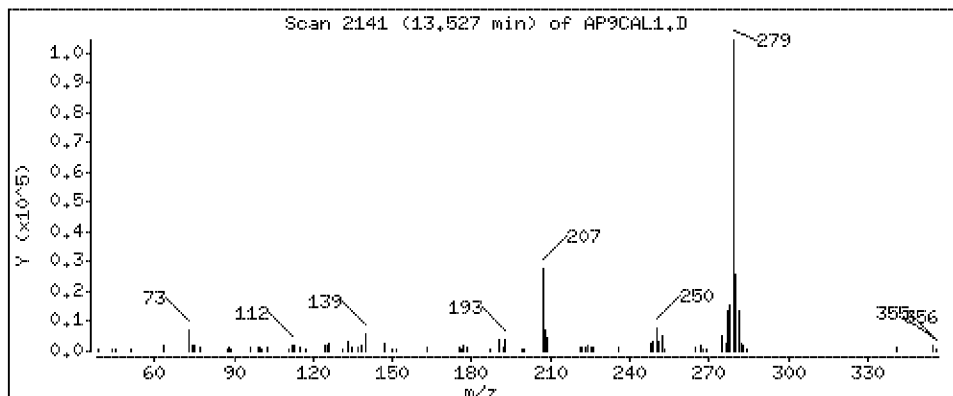
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

132 Dibenz(a,j)acridine

Concentration: 3.7 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3042312.b\AP9SEC2.D
 Lab Smp Id: 44612 Client Smp ID: AP9SEC
 Inj Date : 23-APR-2012 20:15 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 44612
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3042312.b\8270bcs.m
 Meth Date : 25-Apr-2012 09:57 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 19:04 Cal File: AP9CAL2.D
 Als bottle: 26 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ap9cal.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
3 2- Picoline CAS #: 109-06-8									
2.927	3.382	(0.658)	93	494920	45.0000	42.5	70.00- 130.00	100.00	
2.927	3.382	(0.658)	66	245436			46.98- 106.98	49.59	
2.927	3.382	(0.658)	92	123723			941.44-1001.44	25.00	
4 N-Nitrosomethylethylamine CAS #: 10595-95-6									
3.005	3.005	(0.676)	88	199482	45.0000	40.1	80.00- 120.00	100.00	
3.003	3.005	(0.675)	43	94118			16.66- 76.66	47.18	
3.004	3.005	(0.676)	42	197231			75.28- 135.28	98.87	
5 Methyl Methanesulfonate CAS #: 66-27-3									
3.238	3.383	(0.728)	80	328169	45.0000	39.9	70.00- 130.00	100.00	
3.239	3.383	(0.728)	79	182327			41.30- 101.30	55.56	
3.238	3.383	(0.728)	65	91806			390.98- 450.98	27.98	
7 N-Nitrosodiethylamine CAS #: 55-18-5									
3.551	3.383	(0.799)	102	206662	45.0000	42.0	70.00- 130.00	100.00	
3.550	3.383	(0.799)	42	142795			4947.35-5007.35	69.10	
3.551	3.383	(0.799)	57	86873			172953.97-173013.97	42.04	
8 Ethyl Methanesulfonate CAS #: 62-50-0									
3.789	4.446	(0.852)	79	424155	45.0000	49.7	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	
8 Ethyl Methanesulfonate (continued)									
3.789	4.446	(0.852)	109	213176			103.08- 163.08	50.26	
3.789	4.446	(0.852)	97	79019			71.09- 131.09	18.63	

12 Pentachloroethane CAS #: 76-01-7									
4.206	4.207	(0.946)	167	207359	45.0000	42.6	80.00- 120.00	100.00	
4.206	4.207	(0.946)	117	150682			42.54- 102.54	72.67	
4.206	4.207	(0.946)	130	88987			11.81- 71.81	42.91	

* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.446	4.448	(1.000)	152	318399	40.0000		80.00- 120.00	100.00	
4.446	4.448	(1.000)	115	200687			32.20- 92.20	63.03	
4.446	4.448	(1.000)	150	483315			139.77- 199.77	151.80	

24 N-Nitrosopyrrolidine CAS #: 930-55-2									
4.787	4.944	(1.077)	100	234532	45.0000	45.2	70.00- 130.00	100.00	
4.787	4.944	(1.077)	41	157536			349.38- 409.38	67.17	
4.786	4.944	(1.077)	42	132312			7836.39-7896.39	56.42	

25 Acetophenone CAS #: 98-86-2									
4.801	4.807	(0.856)	105	667468	45.0000	43.8	70.00- 130.00	100.00	
4.800	4.807	(0.856)	77	674282			4410.01-4470.01	101.02	
4.800	4.807	(0.856)	51	171507			1262.06-1322.06	25.70	

27 N-Nitrosomorpholine CAS #: 59-89-2									
4.817	4.446	(1.084)	56	243293	45.0000	45.8	70.00- 130.00	100.00	
4.818	4.446	(1.084)	116	86062			116.25- 176.25	35.37	
4.817	4.446	(1.084)	86	172359			171.65- 231.65	70.84	

29 o-Toluidine CAS #: 95-53-4									
4.836	4.814	(1.088)	106	695504	45.0000	41.1	70.00- 130.00	100.00	
4.835	4.814	(1.088)	77	171114			36058.41-36118.41	24.60	
4.836	4.814	(1.088)	107	515322			76505.71-76565.71	74.09	

33 N-Nitrosopiperidine CAS #: 100-75-4									
5.096	4.798	(0.909)	114	205133	45.0000	44.2	70.00- 130.00	100.00	
5.095	4.798	(0.909)	42	232828			3934.42-3994.42	113.50	
5.095	4.798	(0.909)	55	123459			491.51- 551.51	60.18	

37 o,o,o-Triethylphosphorothioate CAS #: 126-68-1									
5.338	5.338	(1.201)	198	330916	45.0000	43.2	80.00- 120.00	100.00	
5.336	5.338	(1.200)	97	222757			34.93- 94.93	67.32	
5.336	5.338	(1.200)	65	177738			24.79- 84.79	53.71	

39 a,a-Dimethylphenethylamine CAS #: 122-09-8									
5.441	5.370	(0.970)	58	802427	45.0000	49.4	70.00- 130.00	100.00	
5.442	5.370	(0.970)	91	272309			64.34- 124.34	33.94	
5.441	5.370	(0.970)	65	149004			12409.05-12469.05	18.57	

* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.608	5.610	(1.000)	136	1066042	40.0000		80.00- 120.00	100.00	
5.607	5.610	(1.000)	68	56791			0.00- 35.51	5.33	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
====	=====	=====	=====	=====	=====	=====	=====	=====
46 2,6-Dichlorophenol			CAS #: 87-65-0					
5.692	5.691	(1.015)	162	406203	45.0000	45.5	70.00- 130.00	100.00
5.691	5.691	(1.015)	63	305152			8424.37-8484.37	75.12
5.691	5.691	(1.015)	98	108806			164.07- 224.07	26.79

47 Hexachloropropene			CAS #: 1888-71-7					
5.713	5.712	(1.019)	213	490636	45.0000	41.3	80.00- 120.00	100.00
5.713	5.712	(1.019)	215	323976			34.61- 94.61	66.03
5.711	5.712	(1.018)	117	102444			0.00- 50.39	20.88

49 N-Nitrosodi-n-butylamine			CAS #: 924-16-3					
5.993	6.287	(1.069)	84	379397	45.0000	44.2	70.00- 130.00	100.00
5.993	6.287	(1.069)	57	224872			1288.18-1348.18	59.27
5.992	6.287	(1.069)	41	200895			66.46- 126.46	52.95

52 Isosafrole			CAS #: 120-58-1					
6.200	6.619	(1.106)	162	397662	45.0000	46.0	70.00- 130.00	100.00
6.200	6.619	(1.106)	104	299208			0.00- 46.22	75.24
6.200	6.619	(1.106)	131	189122			37.69- 97.69	47.56

56 1,2,4,5-Tetrachlorobenzene			CAS #: 95-94-3					
6.452	6.452	(0.883)	216	600259	45.0000	42.4	80.00- 120.00	100.00
6.452	6.452	(0.883)	214	464120			48.19- 108.19	77.32
6.451	6.452	(0.883)	108	107682			0.00- 47.81	17.94

60 Safrole			CAS #: 94-59-7					
6.702	6.619	(1.195)	162	411144	45.0000	50.7	70.00- 130.00	100.00
6.702	6.619	(1.195)	104	263688			0.00- 46.22	64.14
6.701	6.619	(1.195)	77	167438			0.00- 57.00	40.72

64 1,4-Naphthoquinone			CAS #: 130-15-4					
6.932	6.642	(0.949)	158	357196	45.0000	44.7	70.00- 130.00	100.00
6.931	6.642	(0.949)	102	317015			523.56- 583.56	88.75
6.932	6.642	(0.949)	130	163384			0.00- 46.52	45.74

66 1,3-Dinitrobenzene			CAS #: 99-65-0					
7.069	7.368	(0.968)	168	179544	45.0000	47.5	70.00- 130.00	100.00
7.068	7.368	(0.968)	75	242251			98.40- 158.40	134.93
7.068	7.368	(0.968)	50	138354			177.84- 237.84	77.06

* 70 Acenaphthene-d10			CAS #: 15067-26-2					
7.303	7.305	(1.000)	164	747353	40.0000		80.00- 120.00	100.00
7.303	7.305	(1.000)	162	722735			64.73- 124.73	96.71
7.303	7.305	(1.000)	160	335640			12.46- 72.46	44.91

73 Pentachlorobenzene			CAS #: 608-93-5					
7.467	7.467	(1.022)	250	610300	45.0000	44.2	80.00- 120.00	100.00
7.467	7.467	(1.022)	252	395972			34.92- 94.92	64.88
7.466	7.467	(1.022)	108	169648			0.00- 56.94	27.80

77 1-Naphthylamine			CAS #: 134-32-7					
7.582	7.837	(1.038)	143	779241	45.0000	59.6	70.00- 130.00	100.00
7.582	7.837	(1.038)	115	447705			7143.21-7203.21	57.45

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
====	=====	=====	=====	=====	=====	=====	=====	=====
77 1-Naphthylamine (continued)								
7.581	7.837	(1.038)	89	90884			2068.79-2128.79	11.66

78 2,3,4,6-Tetrachlorophenol CAS #: 58-90-2								
7.635	7.634	(1.045)	232	315641	45.0000	41.6	70.00- 130.00	100.00
7.634	7.634	(1.045)	168	87785			42.05- 102.05	27.81
7.634	7.634	(1.045)	131	132645			9.10- 69.10	42.02

79 2-Naphthylamine CAS #: 91-59-8								
7.661	7.837	(1.049)	143	944794	45.0000	55.2	70.00- 130.00	100.00
7.660	7.837	(1.049)	115	555744			7143.21-7203.21	58.82
7.660	7.837	(1.049)	116	208306			667.96- 727.96	22.05

83 5-Nitro-ortho-toluidine CAS #: 99-55-8								
7.857	7.896	(1.076)	152	281408	45.0000	42.3	70.00- 130.00	100.00
7.856	7.896	(1.076)	106	202615			505.60- 565.60	72.00
7.855	7.896	(1.076)	77	355671			735.48- 795.48	126.39

90 1,3,5-Trinitrobenzene CAS #: 99-35-4								
8.216	8.152	(1.125)	75	431515	45.0000	25.4	70.00- 130.00	100.00
8.216	8.152	(1.125)	74	262614			50.14- 110.14	60.86
8.217	8.152	(1.125)	213	152461			40.88- 100.88	35.33

89 Diallate CAS #: 2303-16-4								
8.231	8.081	(1.127)	86	403892	45.0000	43.5	70.00- 130.00	100.00(M)
8.231	8.081	(1.127)	43	408738			0.00- 38.70	101.20
8.231	8.081	(1.127)	234	277853			0.00- 39.00	68.79

92 Phenacetin CAS #: 62-44-2								
8.265	8.384	(0.944)	109	469033	45.0000	42.9	70.00- 130.00	100.00
8.265	8.384	(0.944)	108	537749			77.38- 137.38	114.65
8.266	8.384	(0.944)	179	314523			133.19- 193.19	67.06

91 p-Phenylenediamine CAS #: 106-50-3								
8.265	8.082	(0.944)	108	537749	45.0000	44.9	70.00- 130.00	100.00
8.265	8.082	(0.943)	80	152247			1858.68-1918.68	28.31
8.265	8.082	(0.943)	53	69020			5306.16-5366.16	12.83

97 Pentachloronitrobenzene CAS #: 82-68-8								
8.590	8.589	(0.981)	237	254031	45.0000	45.1	80.00- 120.00	100.00
8.590	8.589	(0.981)	295	95645			7.36- 67.36	37.65
8.589	8.589	(0.980)	142	179807			42.99- 102.99	70.78

98 4-Aminobiphenyl CAS #: 92-67-1								
8.576	8.584	(0.979)	169	1151552	45.0000	42.5	70.00- 130.00	100.00
8.576	8.584	(0.979)	168	263488			0.00- 49.63	22.88
8.576	8.584	(0.979)	115	139998			0.00- 40.98	12.16

99 Pronamide CAS #: 23950-58-5								
8.632	8.781	(0.985)	173	621945	45.0000	46.1	70.00- 130.00	100.00
8.632	8.781	(0.985)	175	392058			2051.90-2111.90	63.04
8.632	8.781	(0.985)	145	237175			63.94- 123.94	38.13

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 100 Phenanthrene-d10					CAS #: 1517-22-2				
8.760	8.761	(1.000)	188	1568959	40.0000		80.00- 120.00	100.00	
8.759	8.761	(1.000)	94	102260			0.00- 36.35	6.52	
8.759	8.761	(1.000)	80	135381			0.00- 37.82	8.63	

102 Dinoseb					CAS #: 88-85-7				
8.755	8.753	(0.999)	211	414002	45.0000	46.2	80.00- 120.00	100.00	
8.754	8.753	(0.999)	163	160993			7.77- 67.77	38.89	
8.754	8.753	(0.999)	117	95143			0.00- 52.05	22.98	

106 4-Nitroquinoline-1-oxide					CAS #: 56-57-5				
9.544	9.334	(1.089)	174	16323	45.0000	42.8	70.00- 130.00	100.00(Q)	
9.543	9.334	(1.089)	128	38260			429.24- 489.24	234.39	
9.543	9.334	(1.089)	101	65317			988.96-1048.96	400.15	

107 Methapyrilene					CAS #: 91-80-5				
9.610	10.322	(1.097)	97	360479	45.0000	686	70.00- 130.00	100.00(A)	
9.610	10.322	(1.097)	58	362230			11.52- 71.52	100.49	
9.611	10.322	(1.097)	191	58184			0.00- 52.18	16.14	

108 Isodrin					CAS #: 465-73-6				
9.802	10.279	(1.119)	193	229599	45.0000	48.0	70.00- 130.00	100.00	
9.800	10.279	(1.119)	66	213259			17952.44-18012.44	92.88	
9.802	10.279	(1.119)	195	197514			1135.23-1195.23	86.03	

113 Aramite					CAS #: 140-57-8				
10.368	10.370	(0.913)	185	207502	45.0000	43.5	80.00- 120.00	100.00(M)	
10.368	10.370	(0.913)	191	100848			21.78- 81.78	48.60	
10.298	10.370	(0.907)	319	73797			6.67- 66.67	35.56	

114 p-Dimethylamino azobenzene					CAS #: 60-11-7				
10.461	10.323	(0.921)	225	532549	45.0000	45.3	70.00- 130.00	100.00	
10.460	10.323	(0.921)	120	506135			99.50- 159.50	95.04	
10.460	10.323	(0.921)	77	551341			9.48- 69.48	103.53	

115 Chlorobenzilate					CAS #: 510-15-6				
10.504	10.503	(0.925)	251	789166	45.0000	43.4	80.00- 120.00	100.00	
10.504	10.503	(0.925)	253	518902			35.78- 95.78	65.75	
10.503	10.503	(0.925)	139	721251			60.72- 120.72	91.39	

116 Kepone					CAS #: 143-50-0				
10.843	10.840	(0.955)	272	137002	45.0000	44.1	80.00- 120.00	100.00(QM)	
10.843	10.840	(0.955)	274	98845			51.74- 111.74	72.15	
10.843	10.840	(0.955)	237	135237			0.00- 59.52	98.71	

117 3,3-Dimethylbenzidine					CAS #: 119-93-7				
10.793	10.799	(0.951)	212	1429275	45.0000	40.0	70.00- 130.00	100.00	
10.791	10.799	(0.950)	106	99455			2299.94-2359.94	6.96	
10.792	10.799	(0.951)	180	107930			6.44- 66.44	7.55	

119 2-Acetylaminofluorene					CAS #: 53-96-3				
11.041	10.324	(0.972)	181	892960	45.0000	43.4	70.00- 130.00	100.00	
11.042	10.324	(0.973)	223	581651			491.83- 551.83	65.14	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
119 2-Acetylaminofluorene (continued)								
11.041	10.324	(0.972)	180	774221			639.65- 699.65	86.70

* 121 Chrysene-d12 CAS #: 1719-03-5								
11.354	11.359	(1.000)	240	1997141	40.0000		80.00- 120.00	100.00
11.353	11.359	(1.000)	120	107489			0.00- 36.38	5.38
11.354	11.359	(1.000)	236	531644			0.00- 57.06	26.62

126 7,12-Dimethylbenz(a)anthracen CAS #: 57-97-6								
12.322	12.088	(0.972)	256	1332892	45.0000	46.7	70.00- 130.00	100.00
12.321	12.088	(0.972)	241	758937			77.87- 137.87	56.94
12.321	12.088	(0.972)	239	615871			73.24- 133.24	46.21

* 130 Perylene-d12 CAS #: 1520-96-3								
12.680	12.682	(1.000)	264	2004107	40.0000		80.00- 120.00	100.00
12.680	12.682	(1.000)	260	493813			0.00- 54.80	24.64
12.679	12.682	(1.000)	265	455782			0.00- 53.39	22.74

131 3-Methylcholanthrene CAS #: 56-49-5								
12.947	12.847	(1.021)	268	1452809	45.0000	45.2	70.00- 130.00	100.00
12.947	12.847	(1.021)	252	644893			13.23- 73.23	44.39
12.947	12.847	(1.021)	253	542746			6.61- 66.61	37.36

132 Dibenz(a,j)acridine CAS #: 224-42-0								
13.539	13.755	(1.068)	279	2064924	45.0000	44.7	70.00- 130.00	100.00
13.539	13.755	(1.068)	280	504879			0.00- 41.79	24.45
13.539	13.755	(1.068)	277	323026			93.47- 153.47	15.64

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

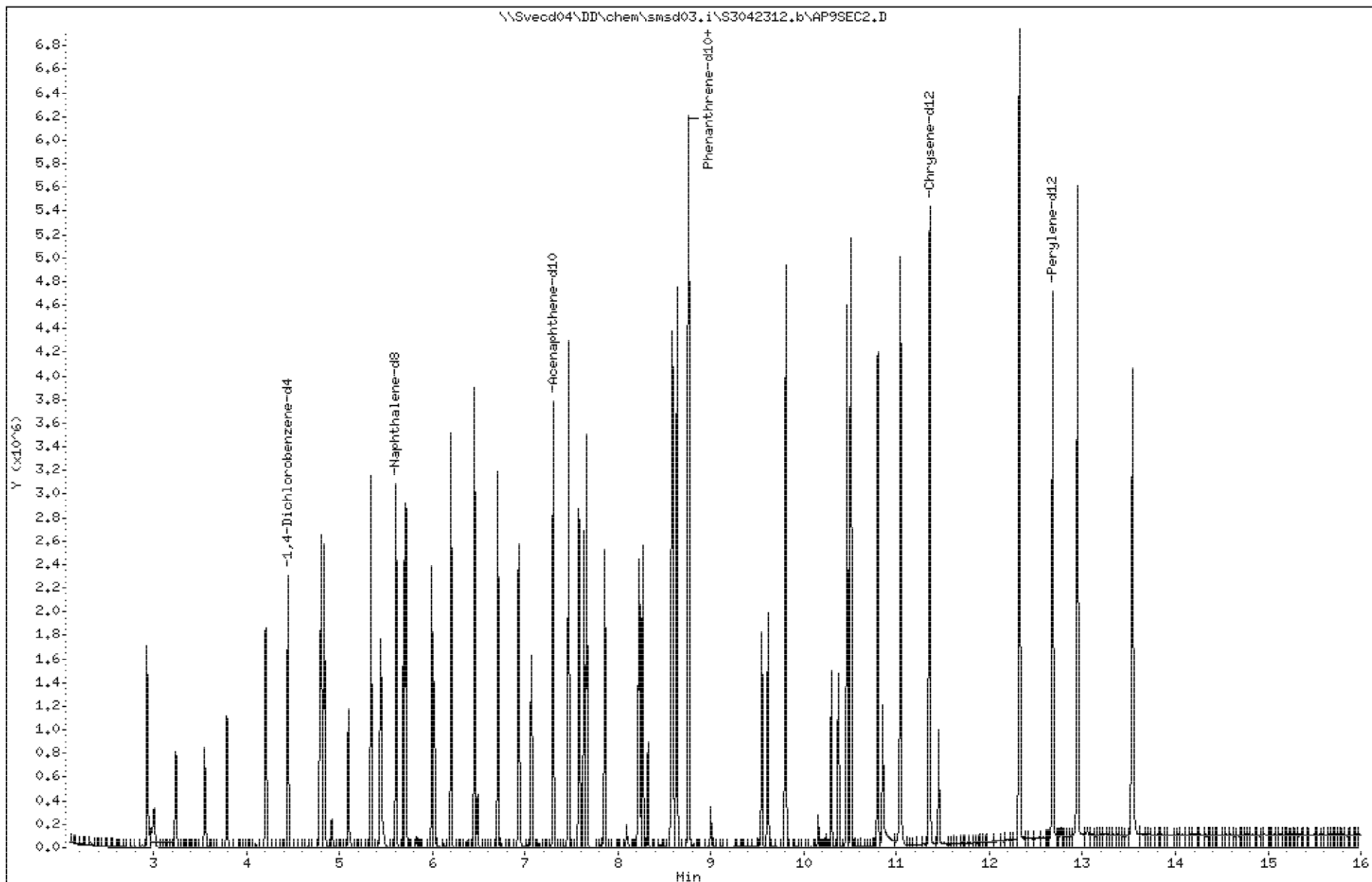
Sample Info: 44612

Operator: PEL

Purge Volume: 1000.0

Column diameter: 0.25

Column phase: HPMS-5



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

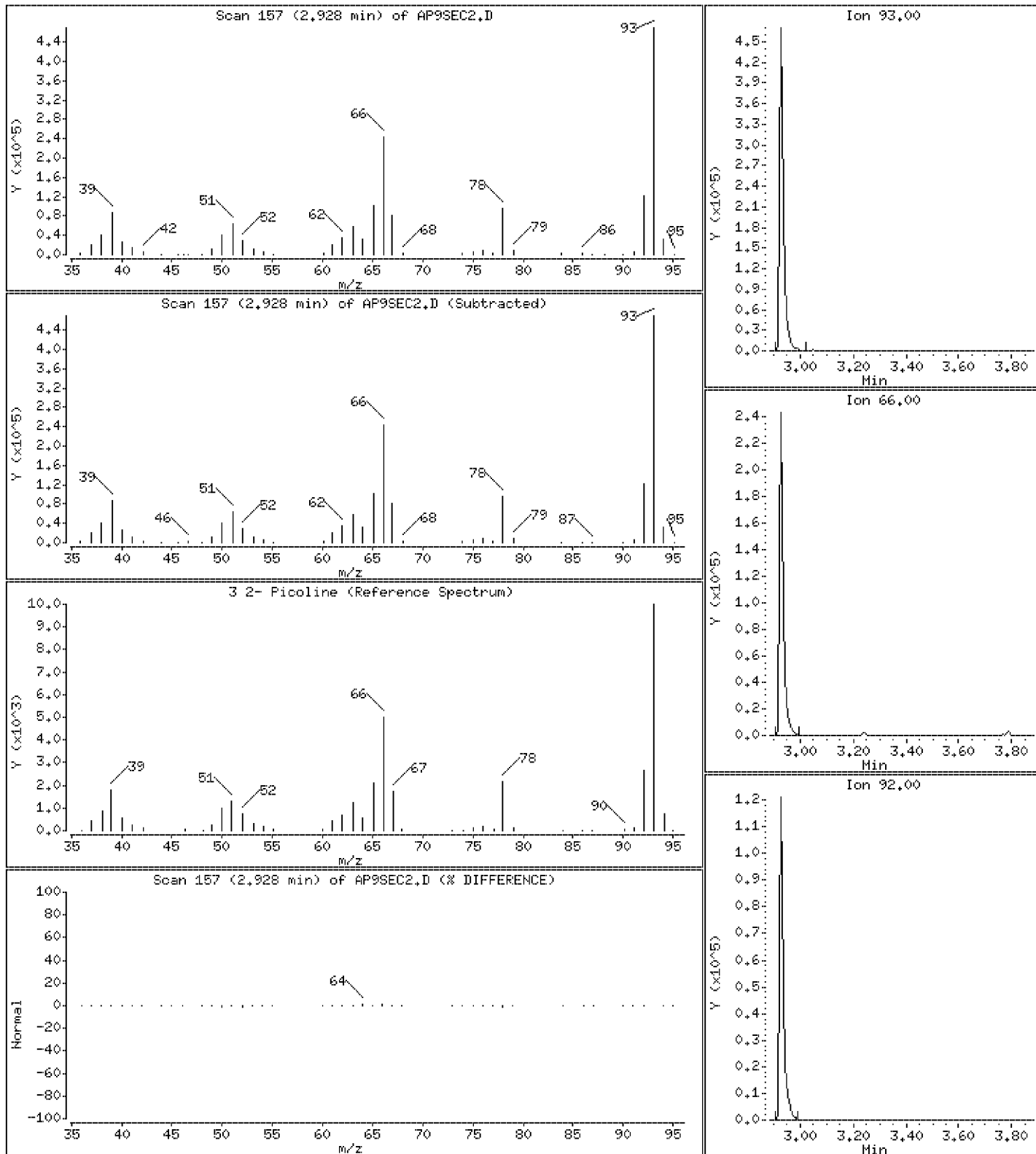
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

3 2- Picoline

Concentration: 42,5 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

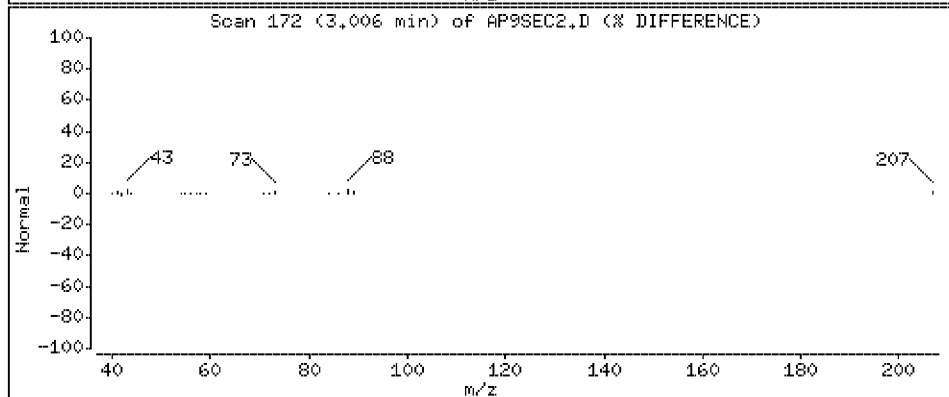
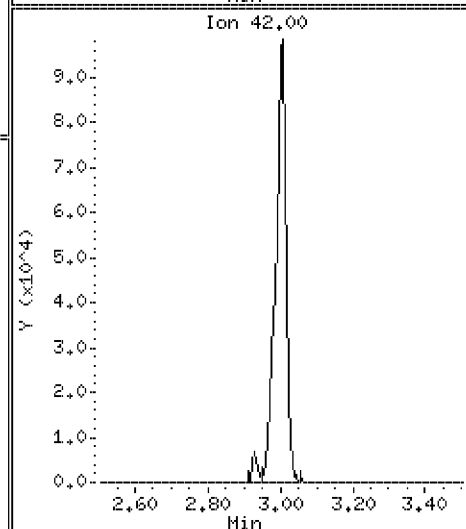
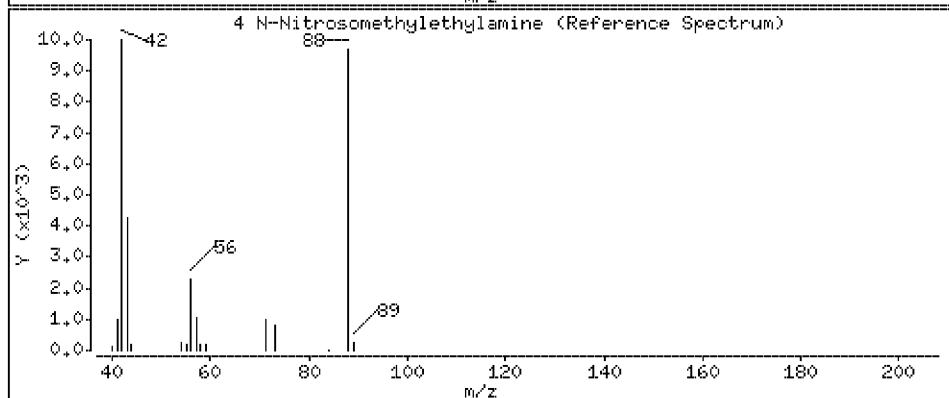
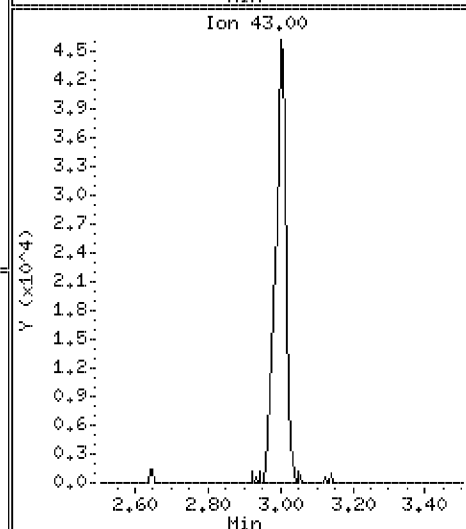
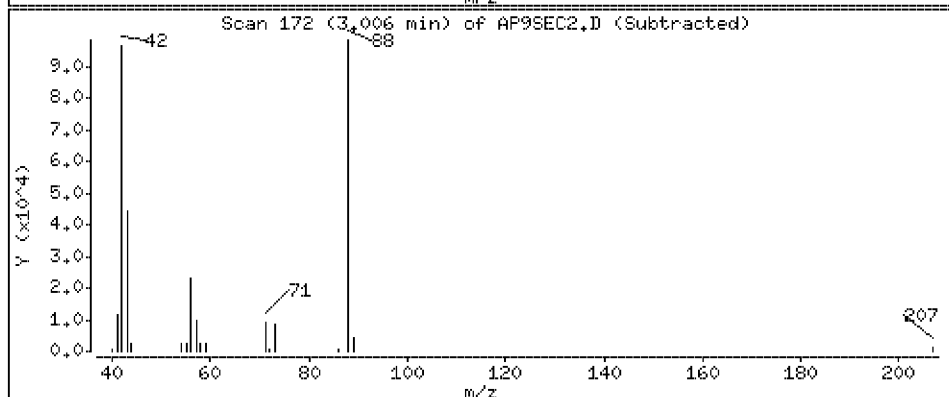
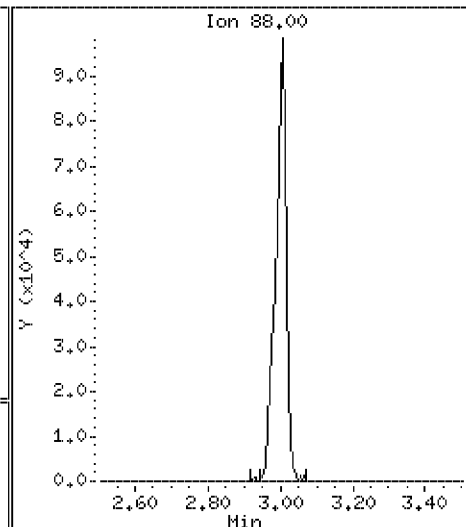
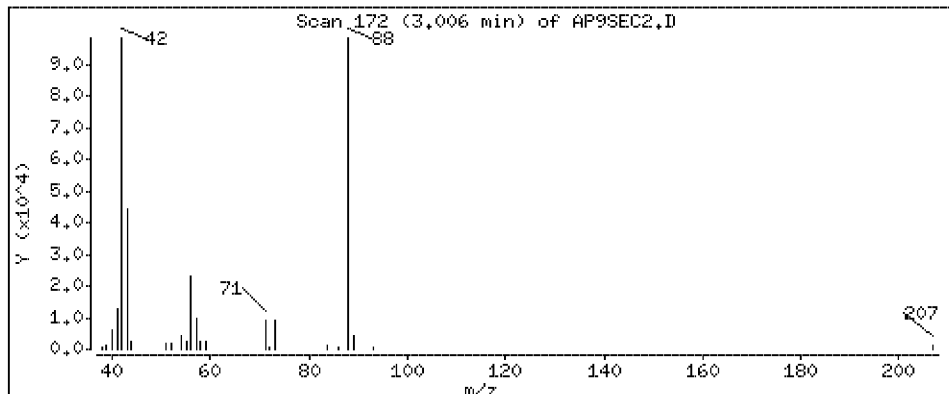
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

4 N-Nitrosomethylethylamine

Concentration: 40.1 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

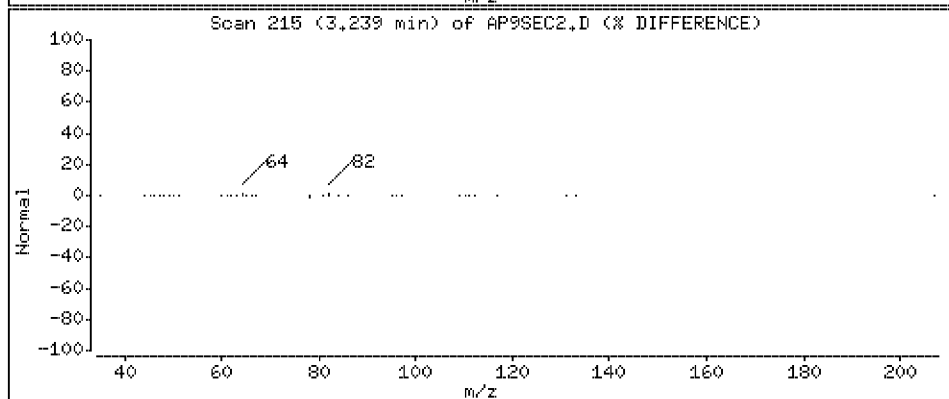
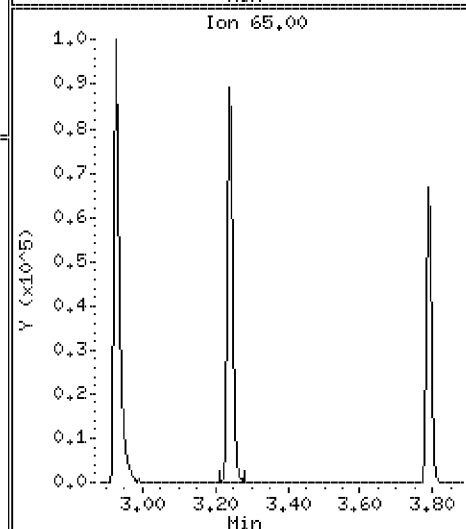
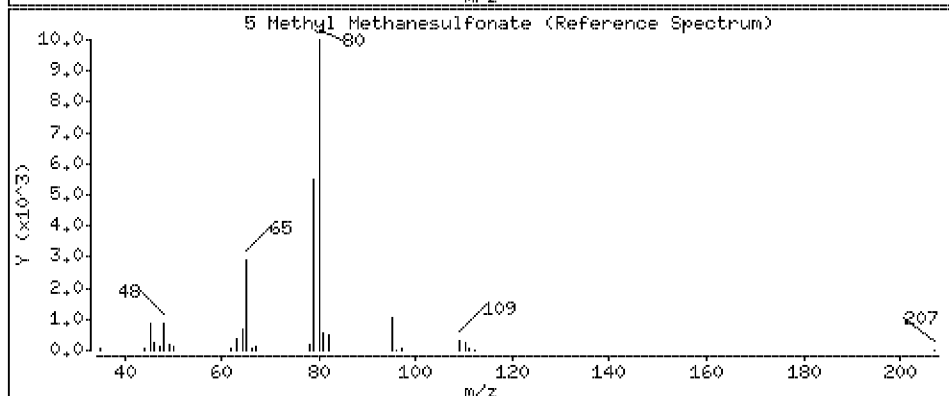
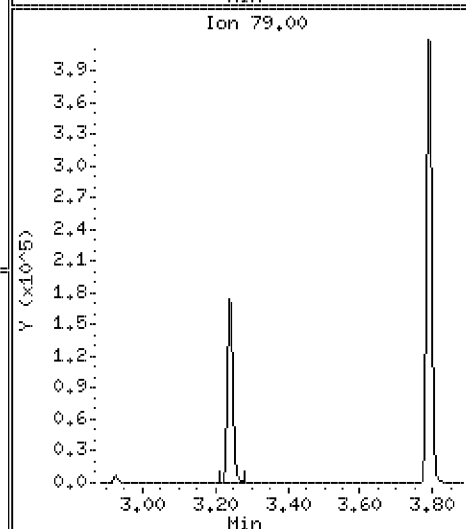
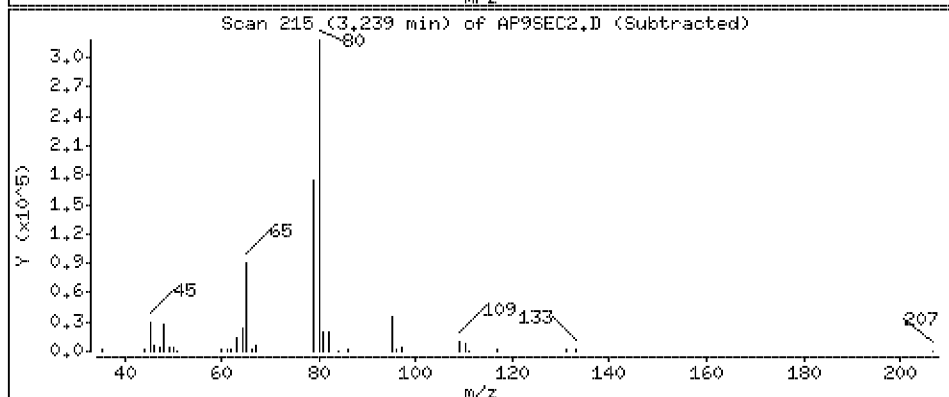
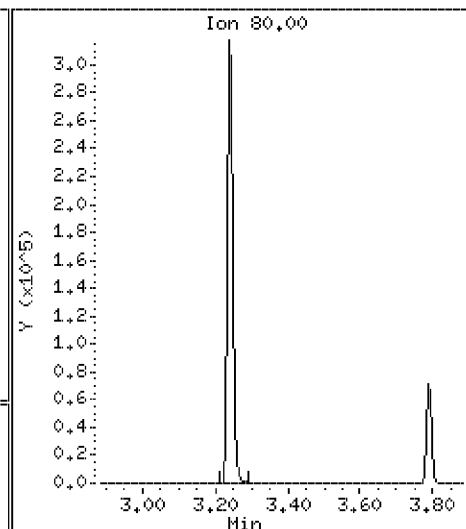
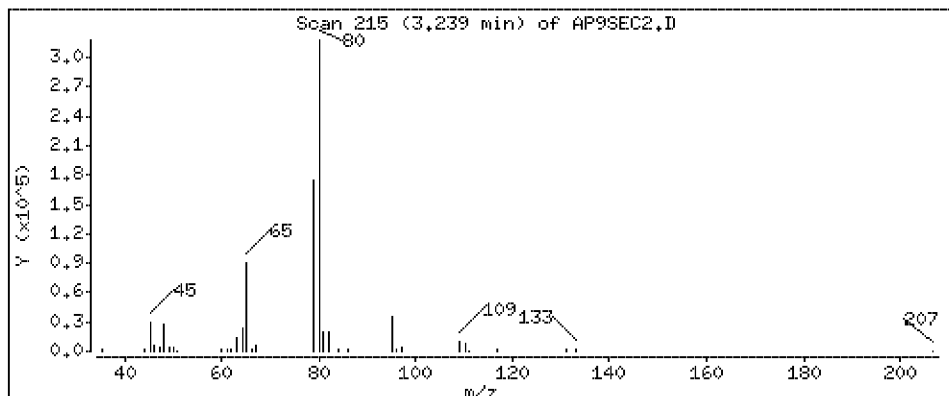
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

5 Methyl Methanesulfonate

Concentration: 39.9 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

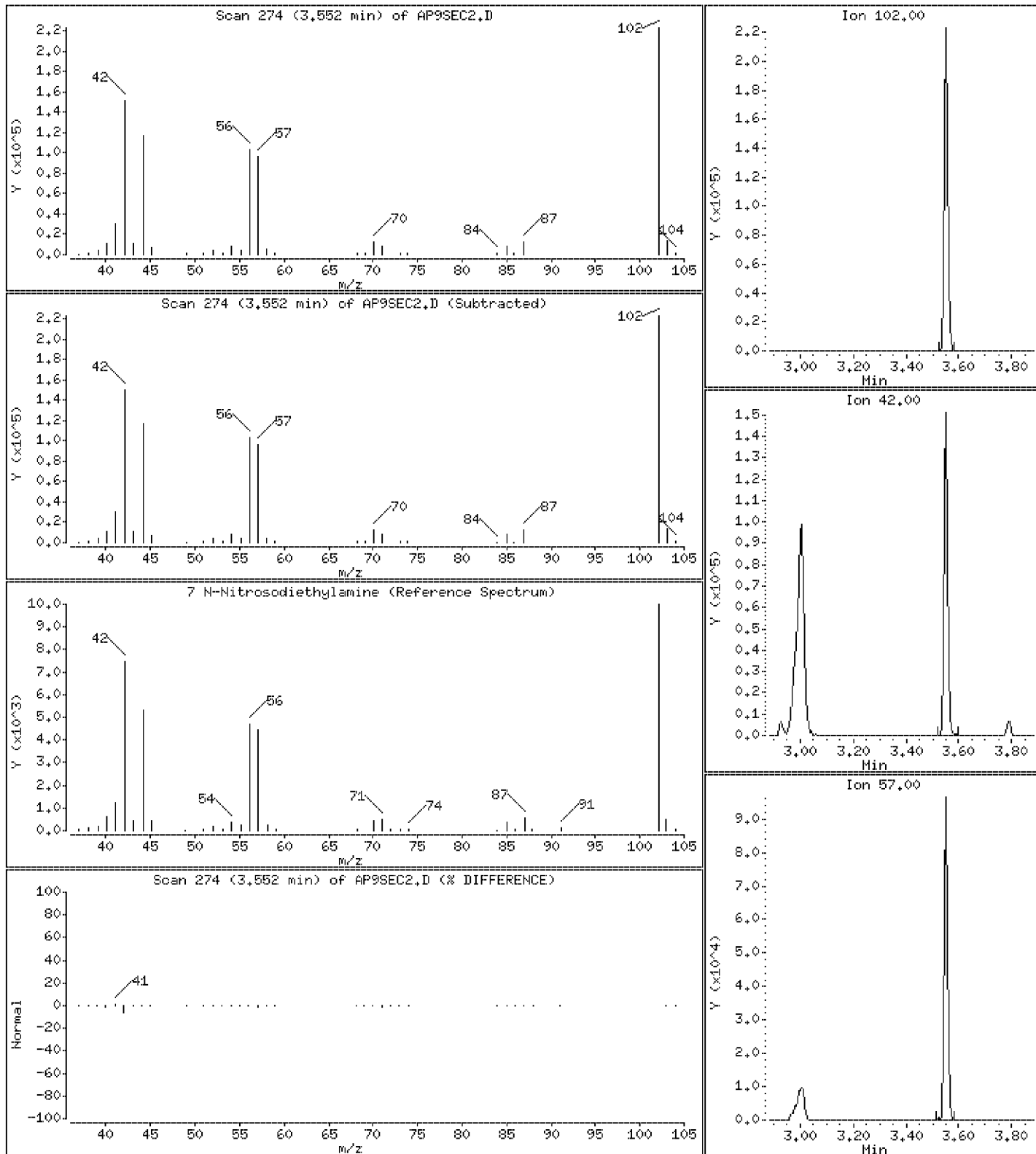
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

7 N-Nitrosodiethylamine

Concentration: 42.0 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

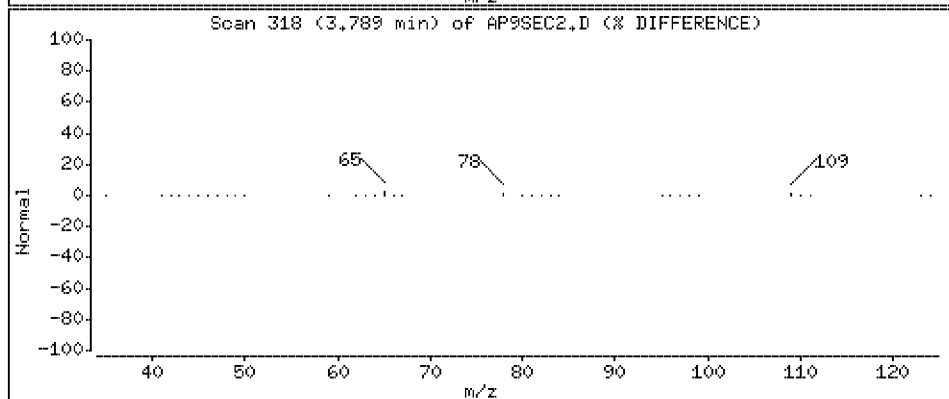
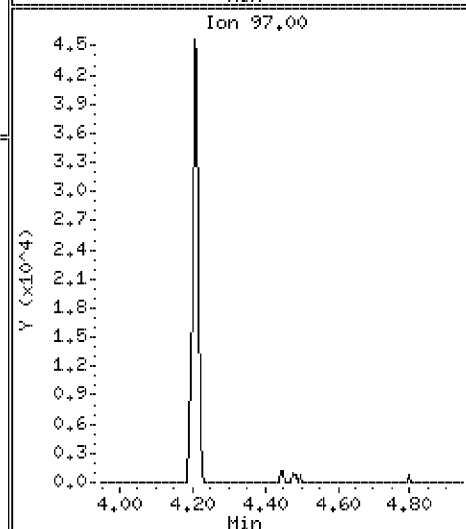
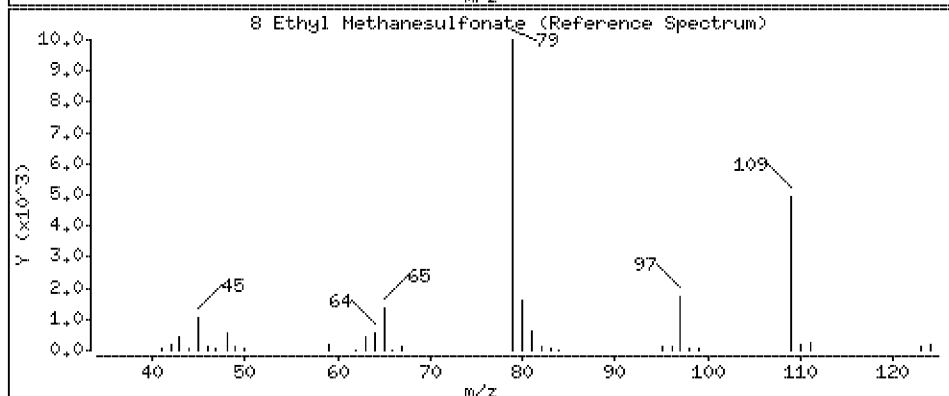
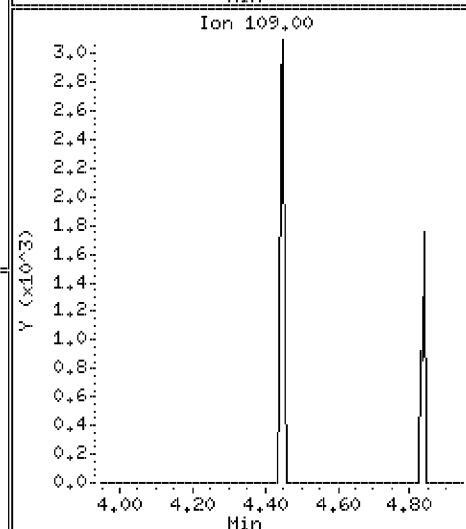
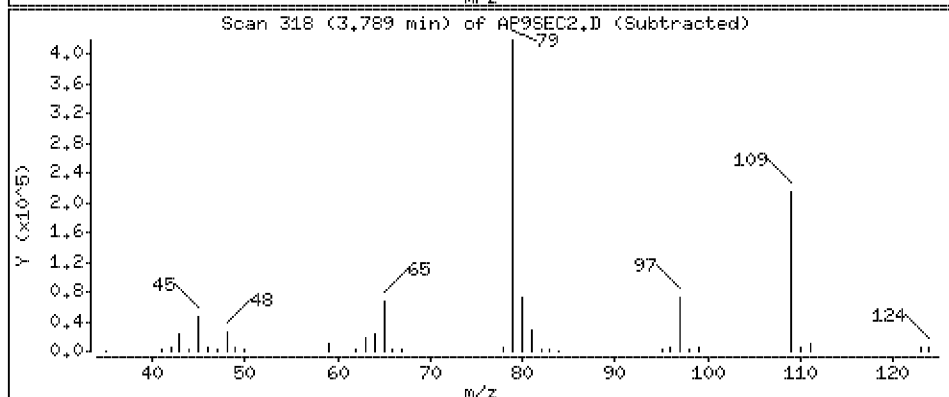
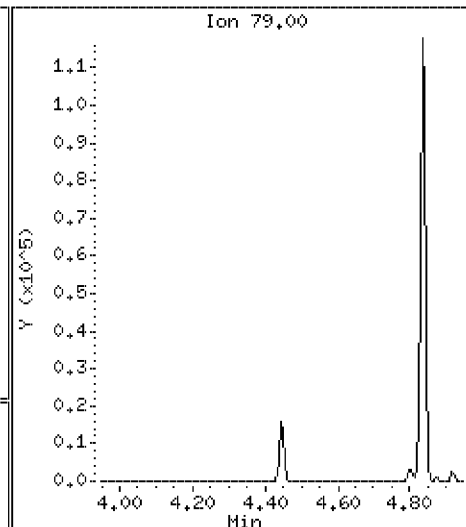
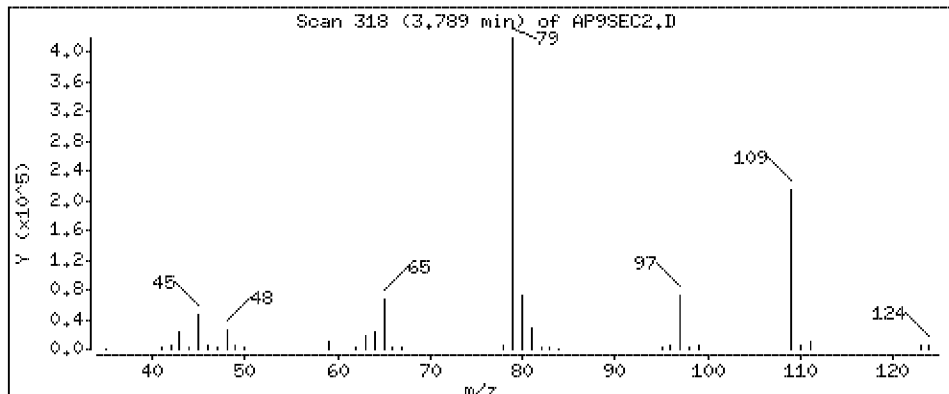
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

8 Ethyl Methanesulfonate

Concentration: 49.7 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

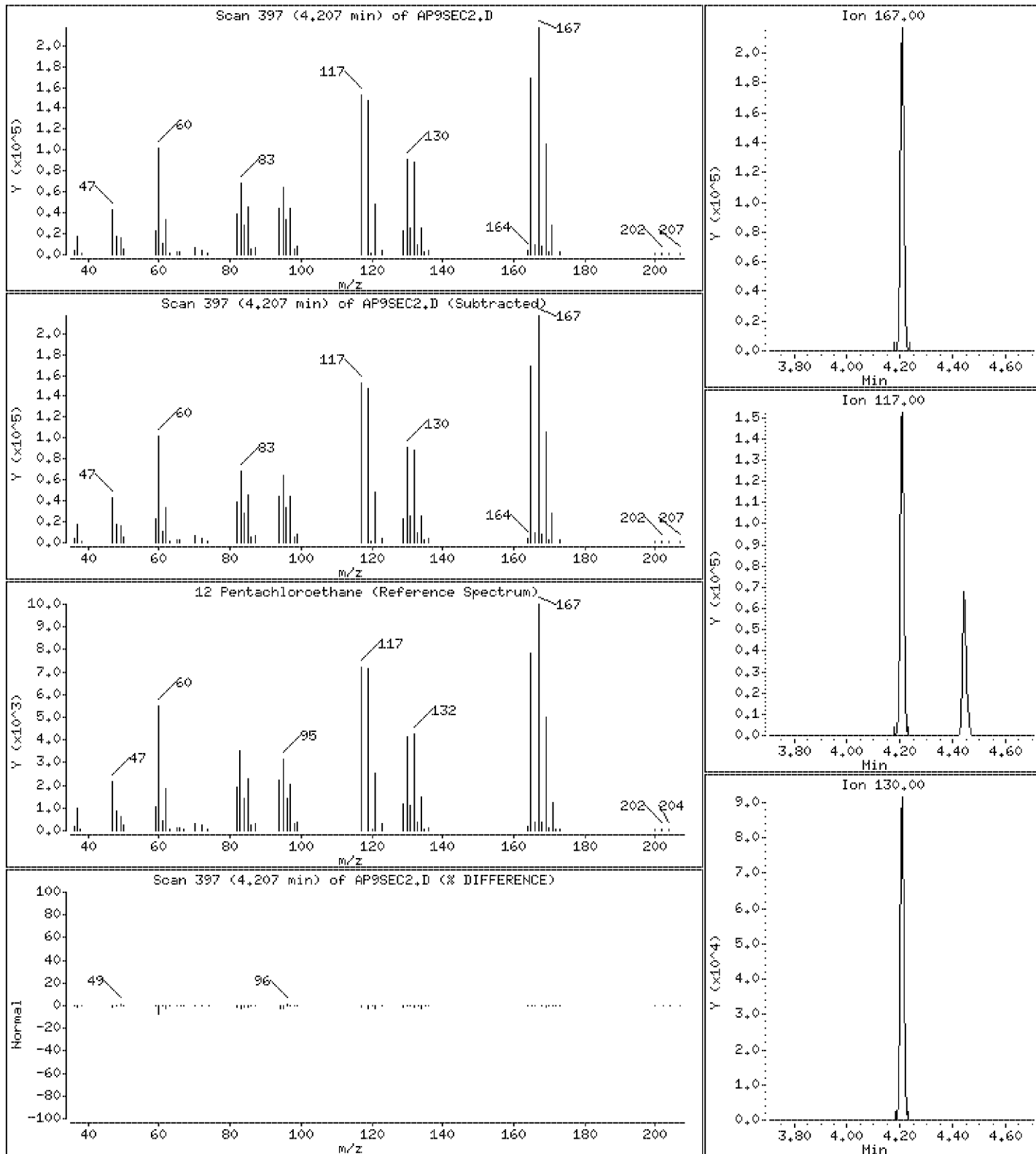
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

12 Pentachloroethane

Concentration: 42.6 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

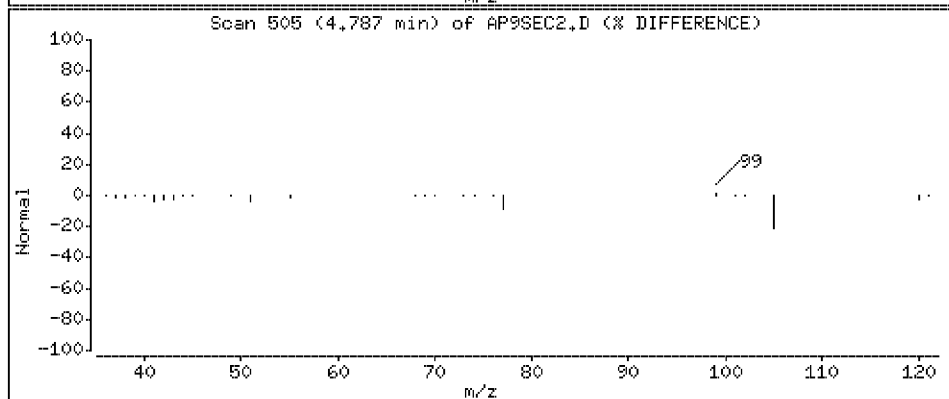
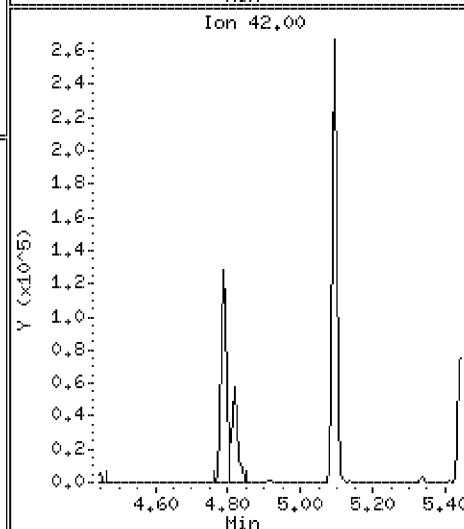
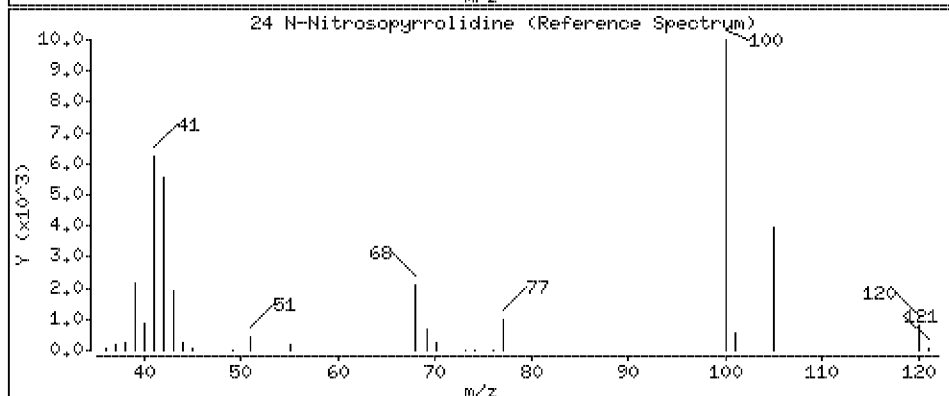
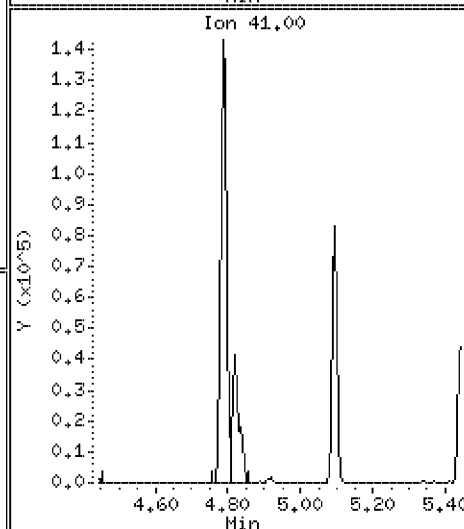
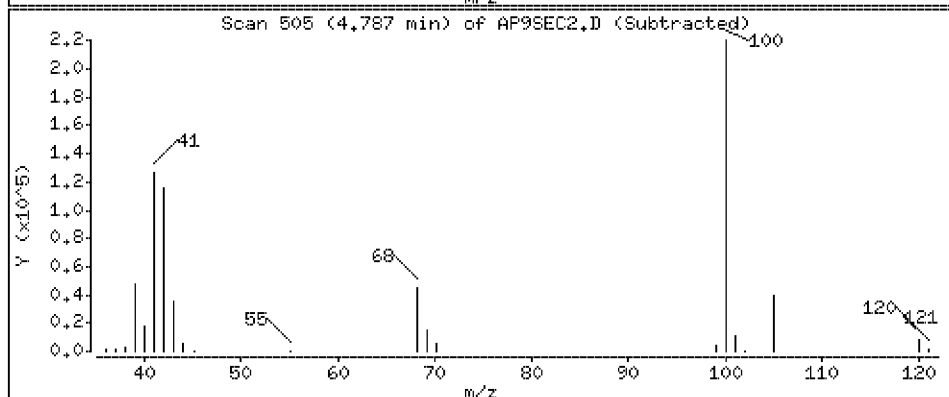
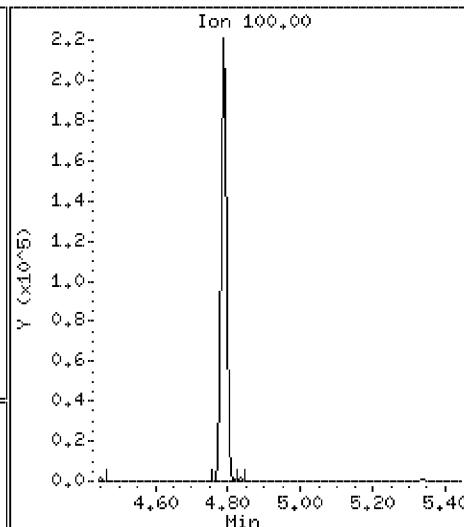
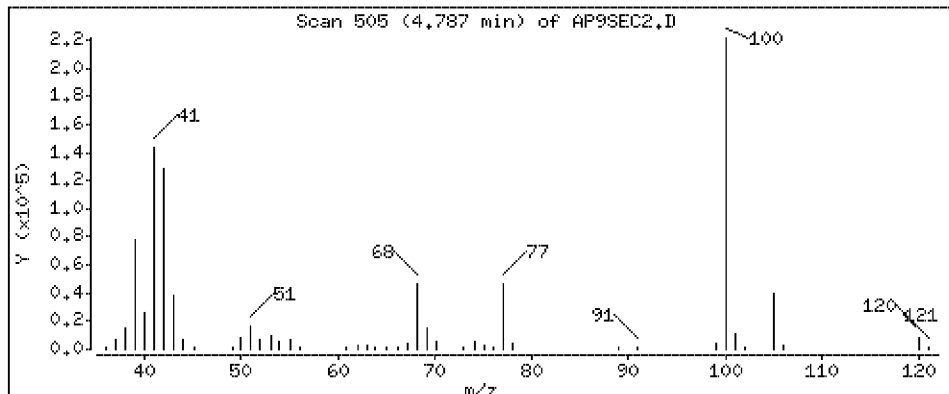
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

24 N-Nitrosopyrrolidine

Concentration: 45.2 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

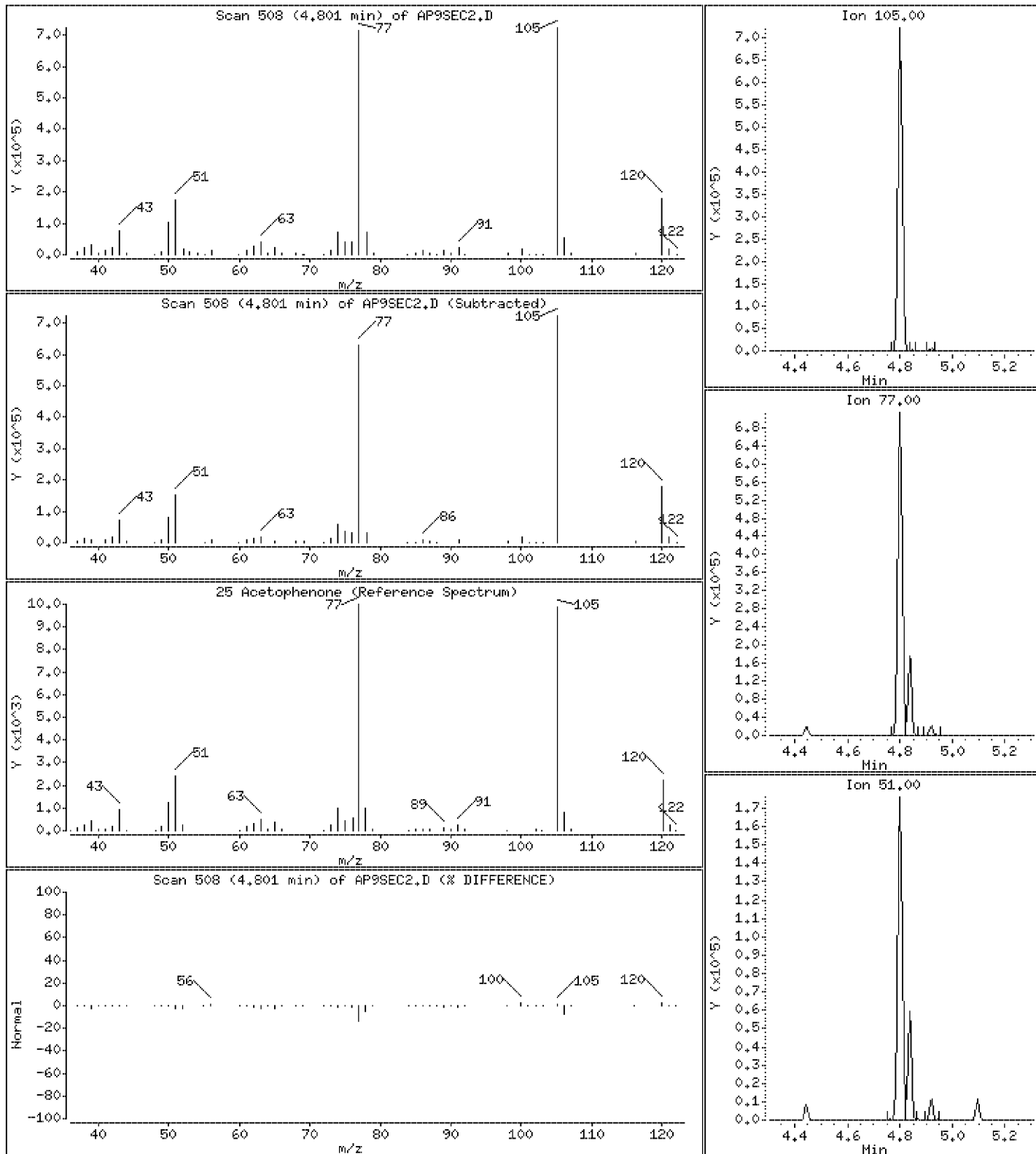
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

25 Acetophenone

Concentration: 43.8 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

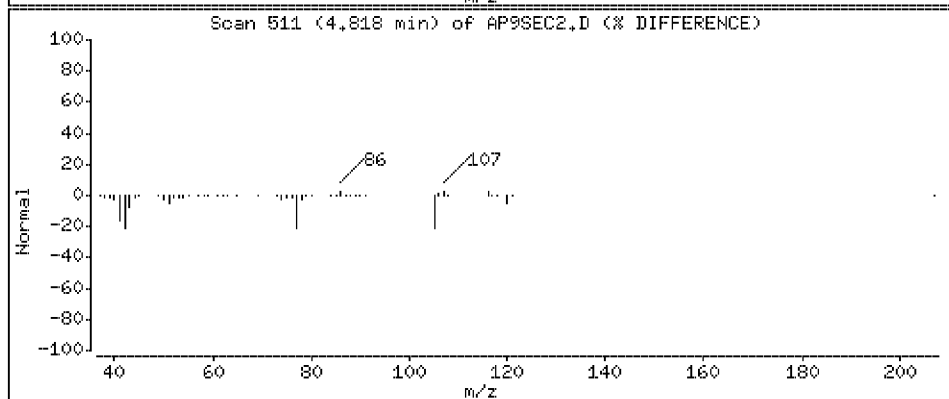
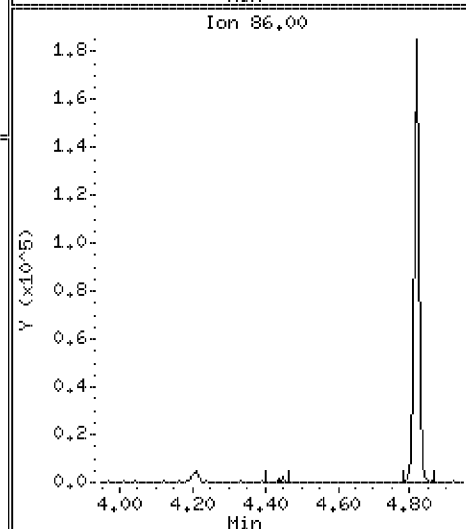
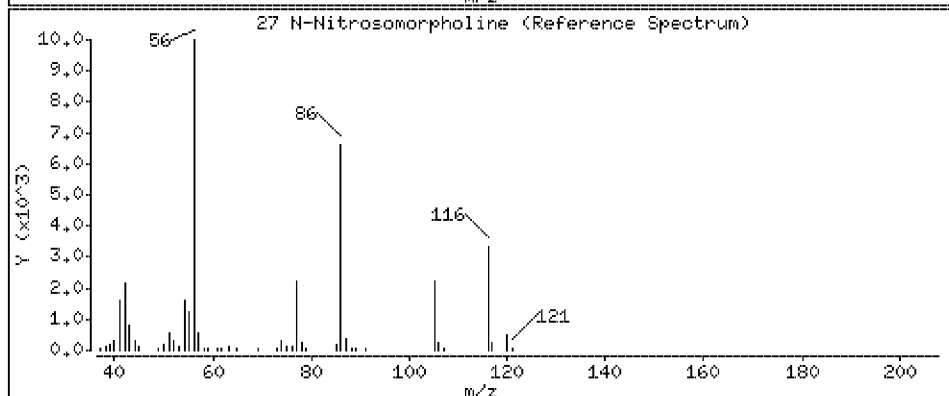
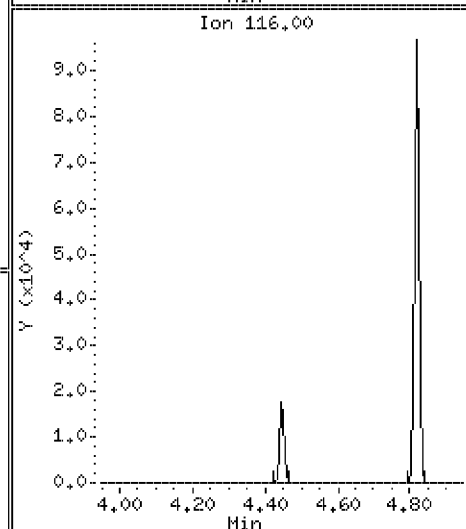
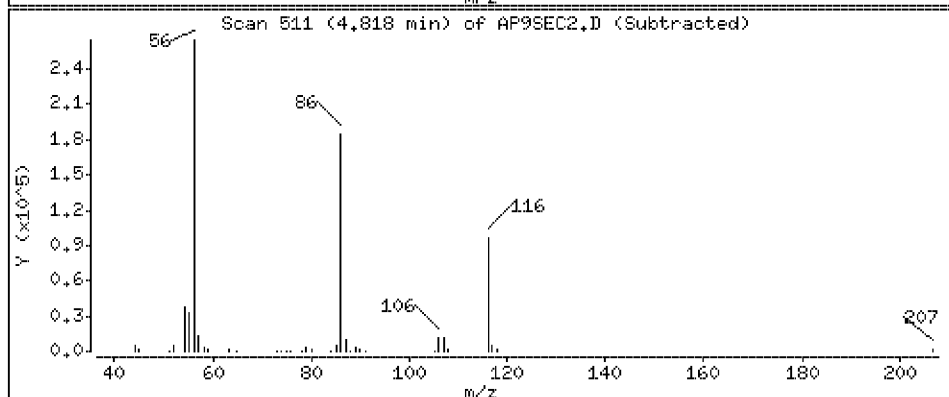
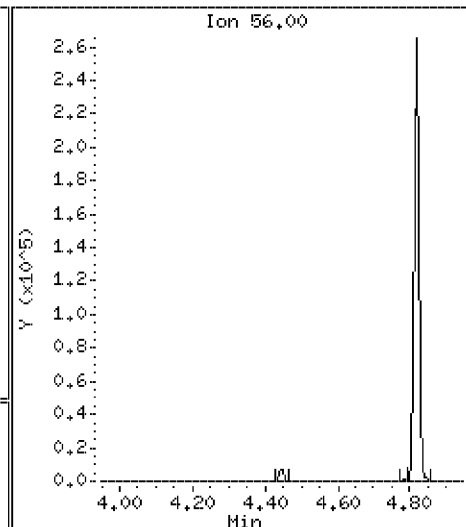
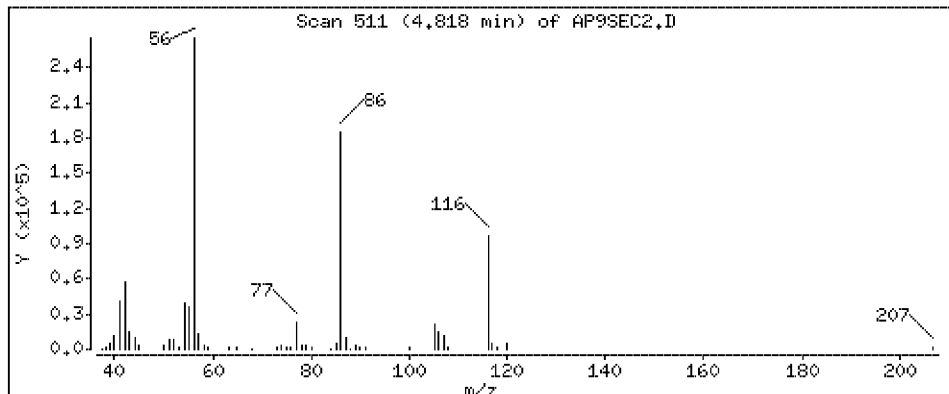
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

27 N-Nitrosomorpholine

Concentration: 45.8 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

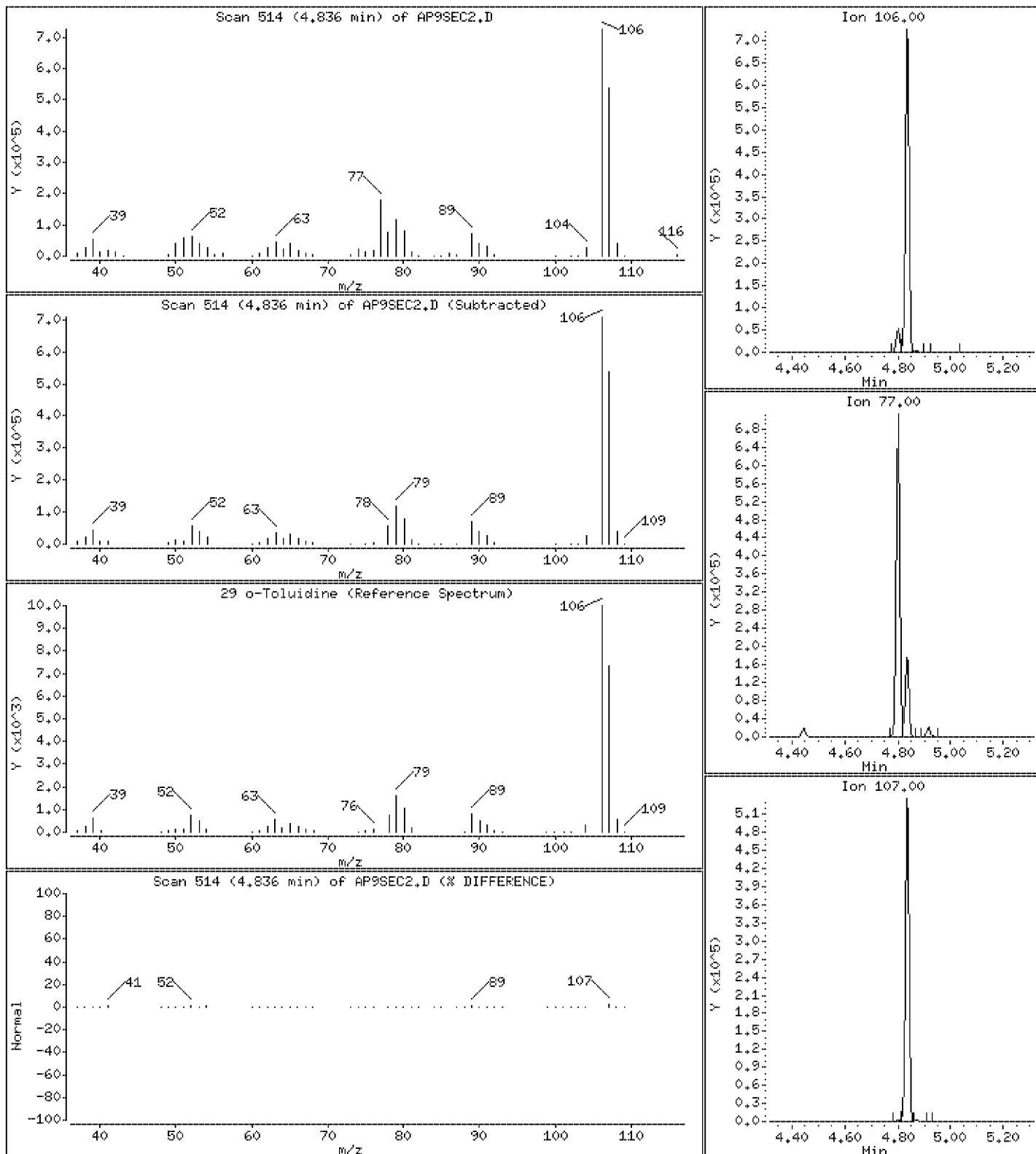
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

29 o-Toluidine

Concentration: 41.1 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

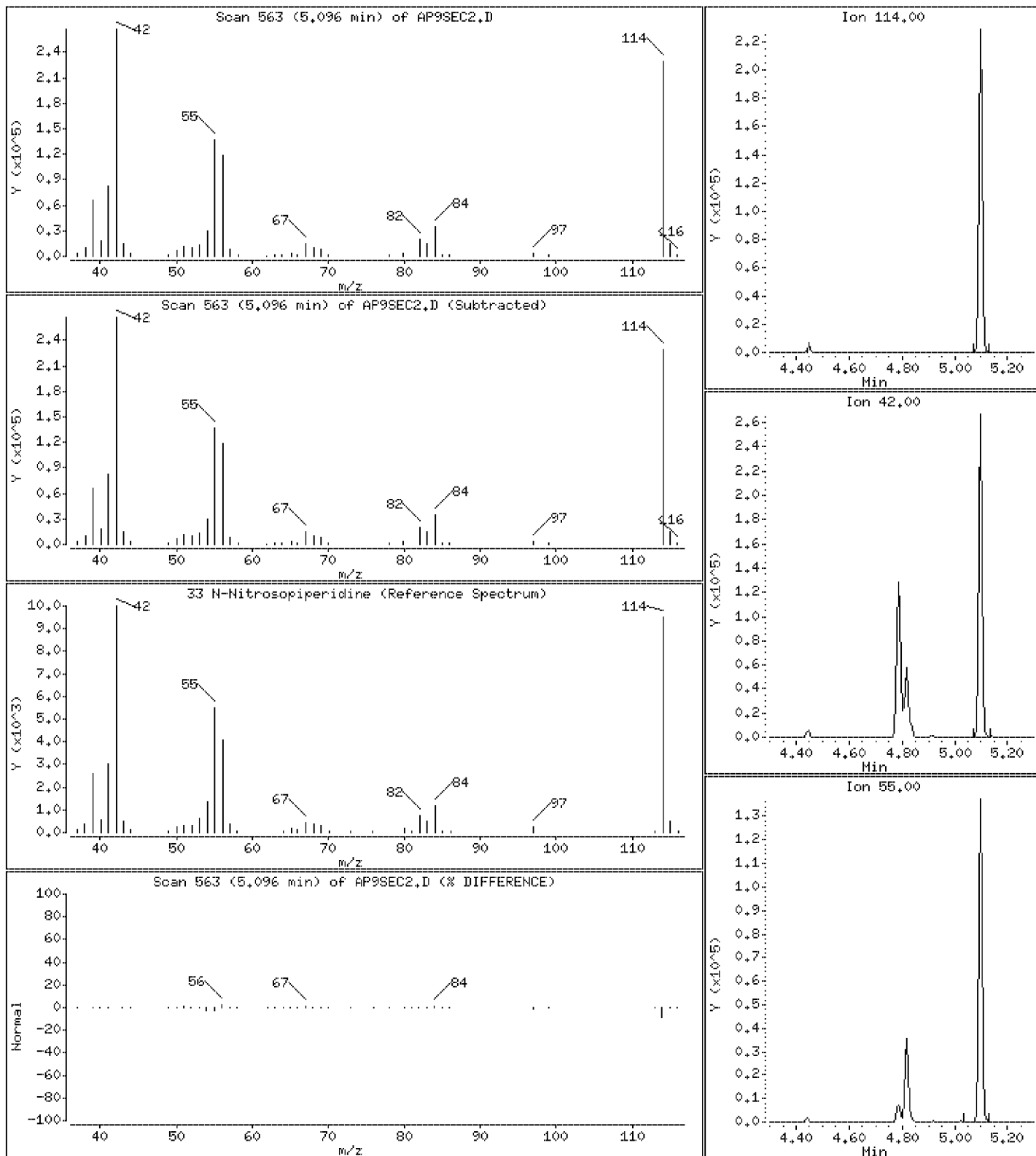
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

33 N-Nitrosopiperidine

Concentration: 44.2 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

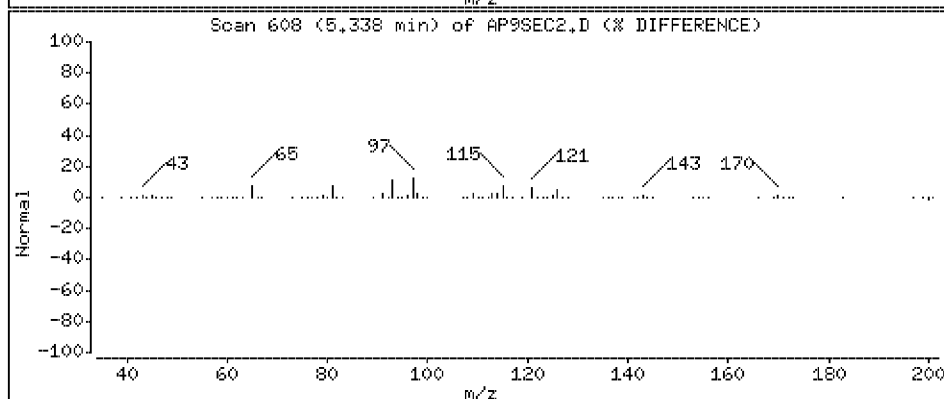
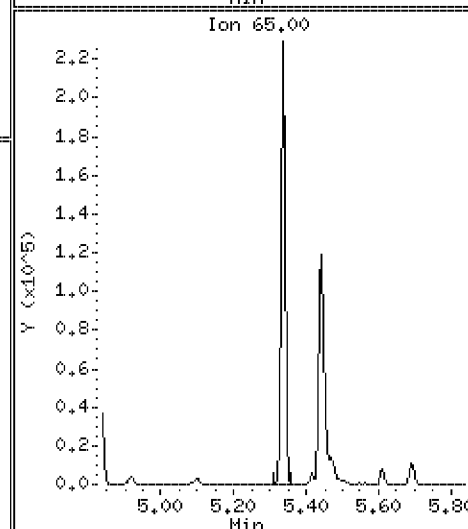
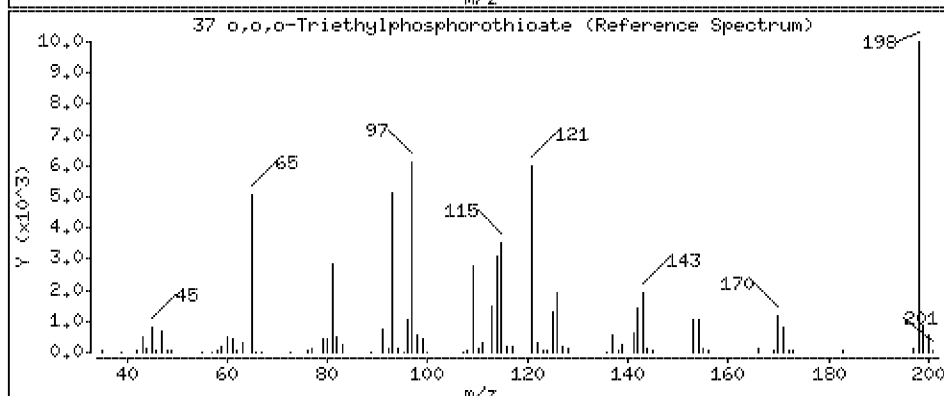
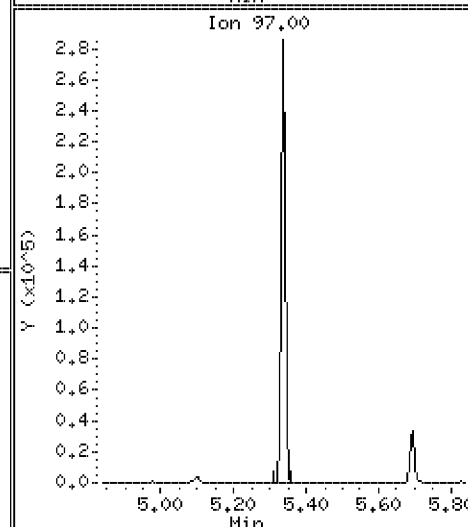
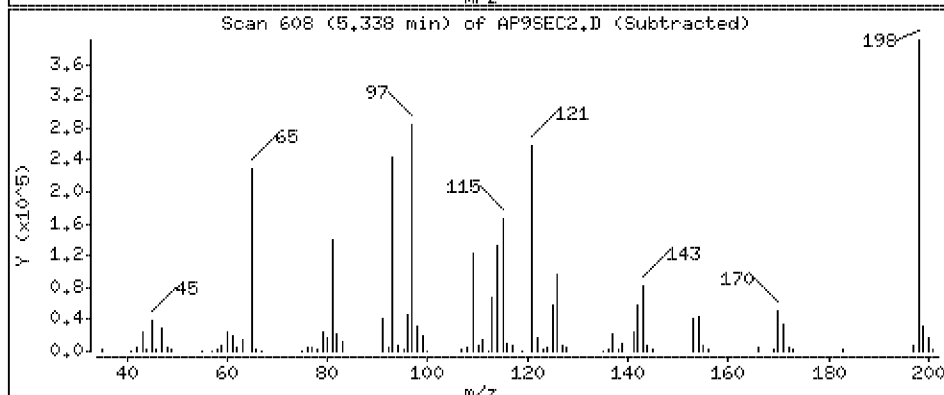
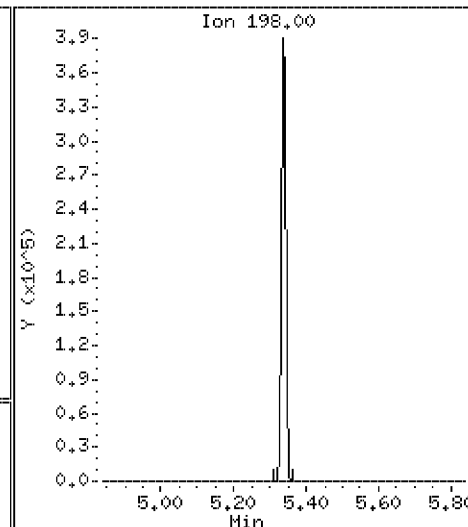
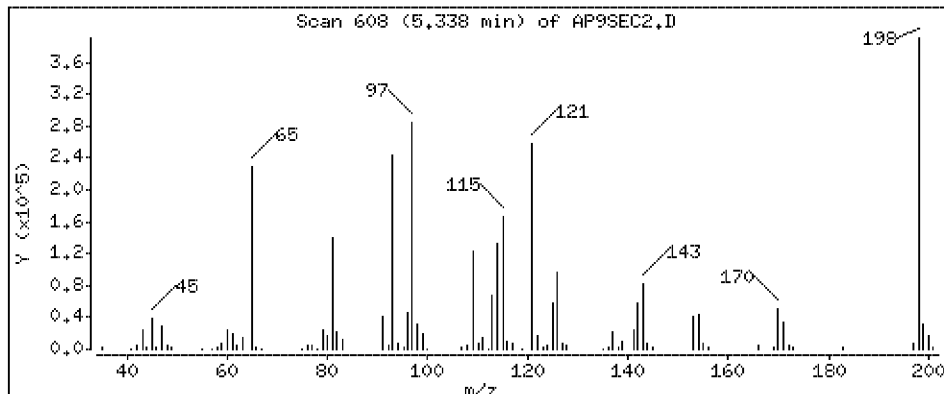
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

37 o,o,o-Triethylphosphorothioate

Concentration: 43.2 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

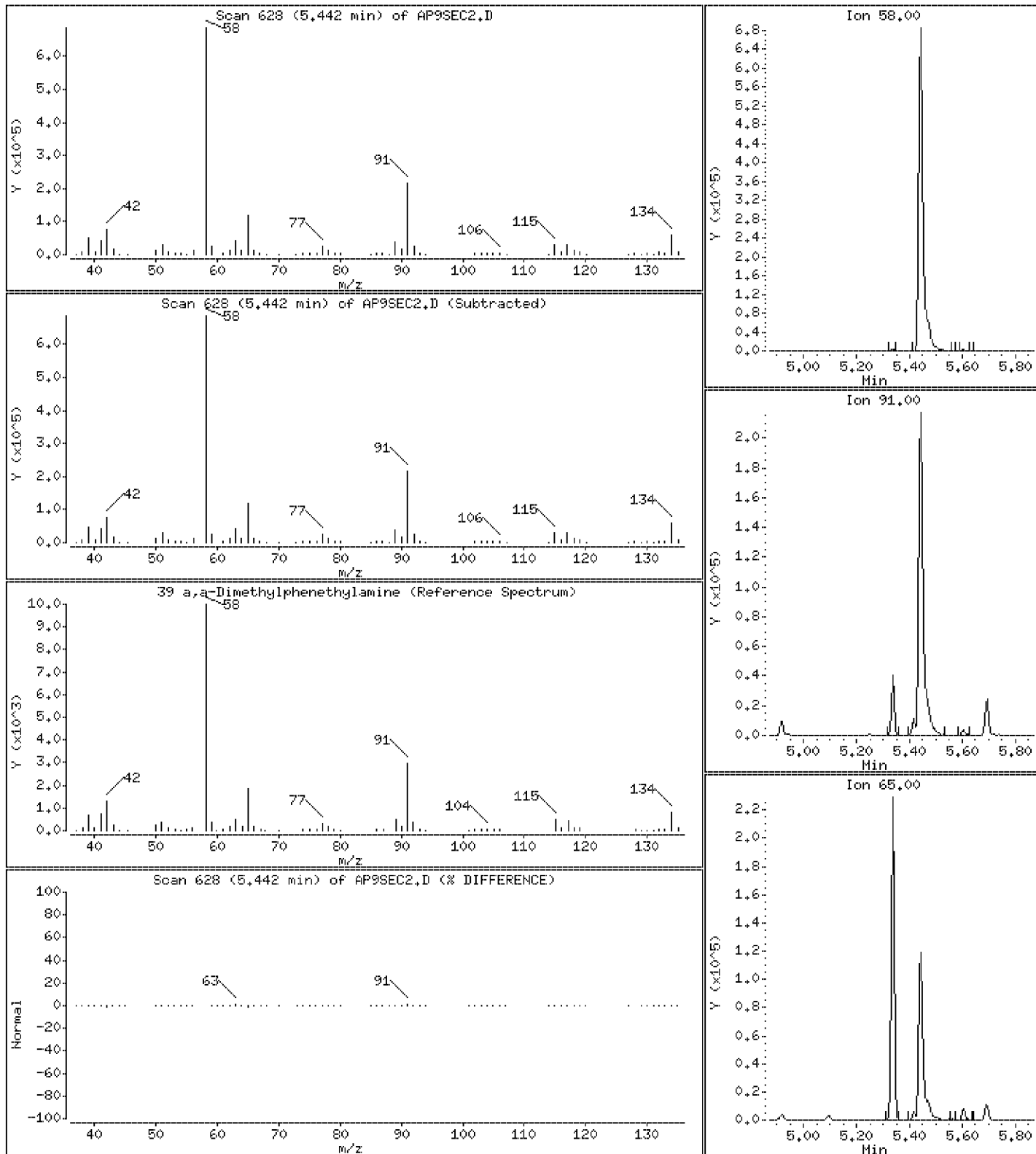
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

39 a,a-Dimethylphenethylamine

Concentration: 49.4 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

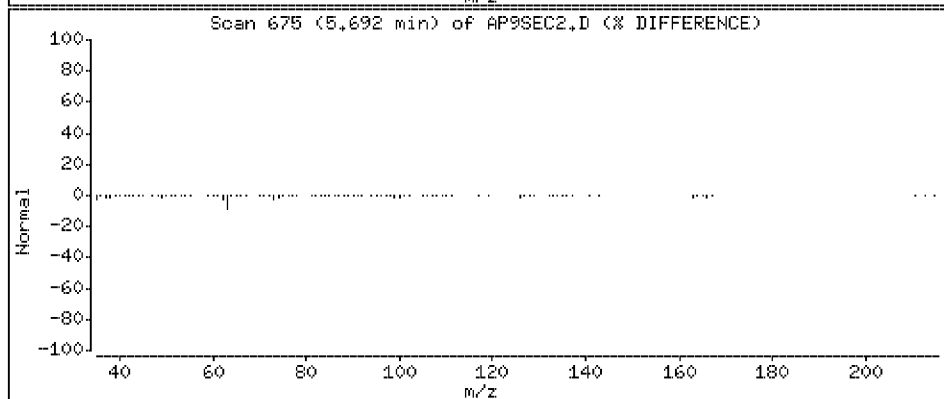
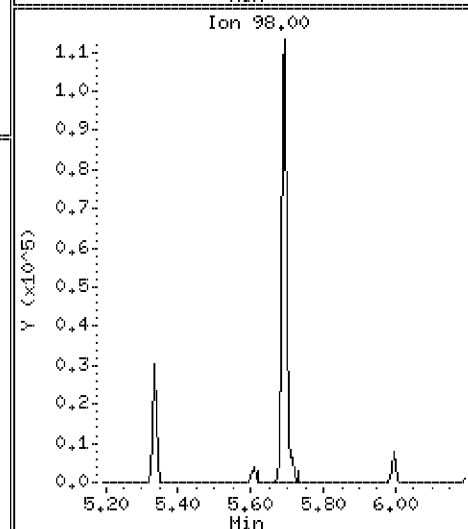
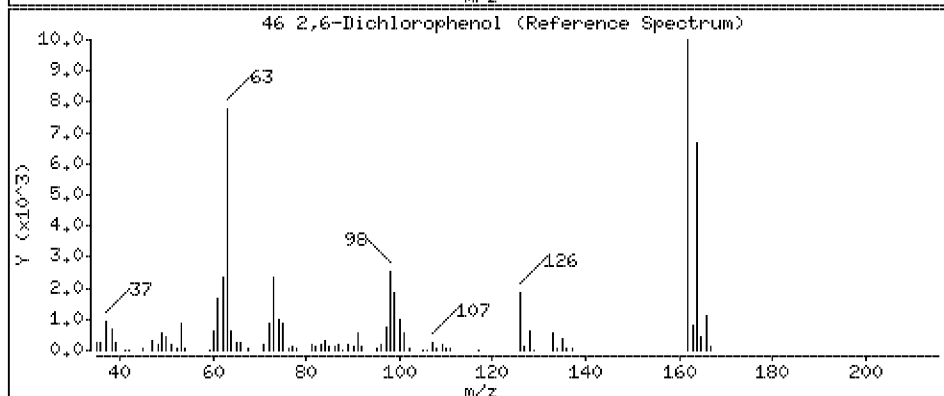
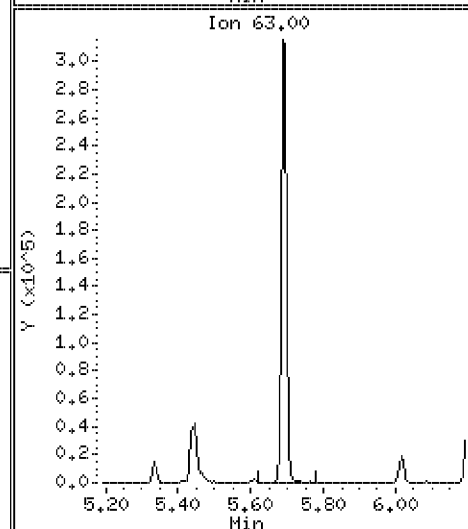
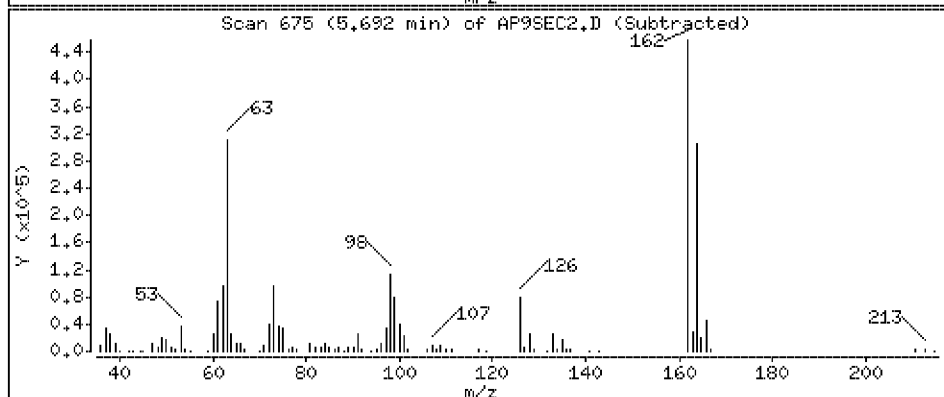
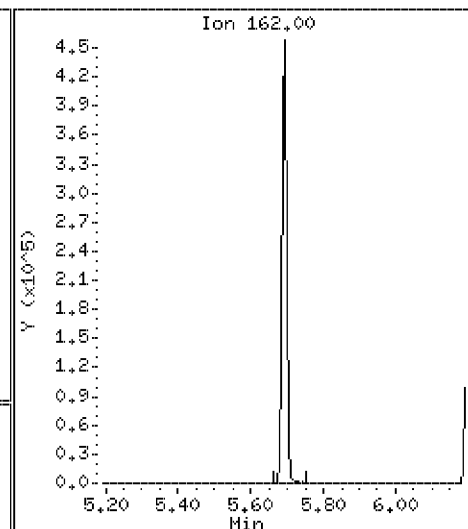
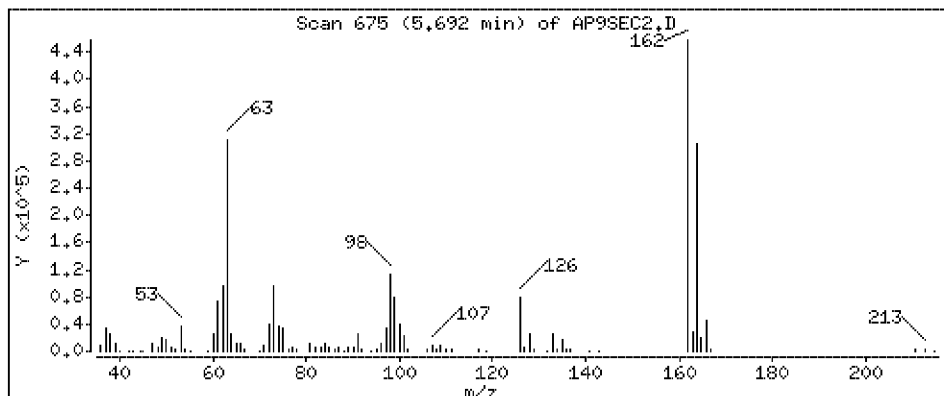
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

46 2,6-Dichlorophenol

Concentration: 45.5 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

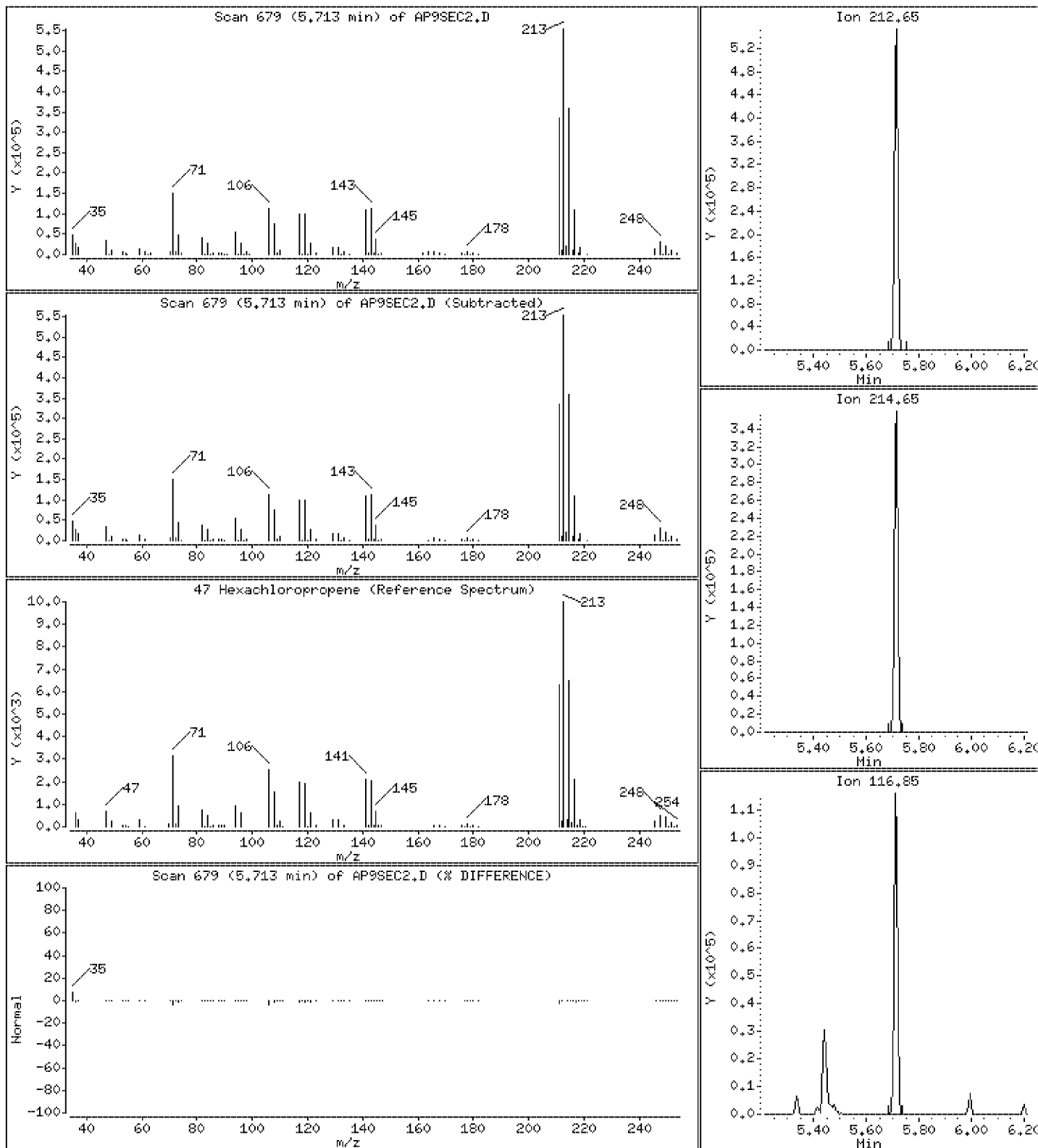
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

47 Hexachloropropene

Concentration: 41.3 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

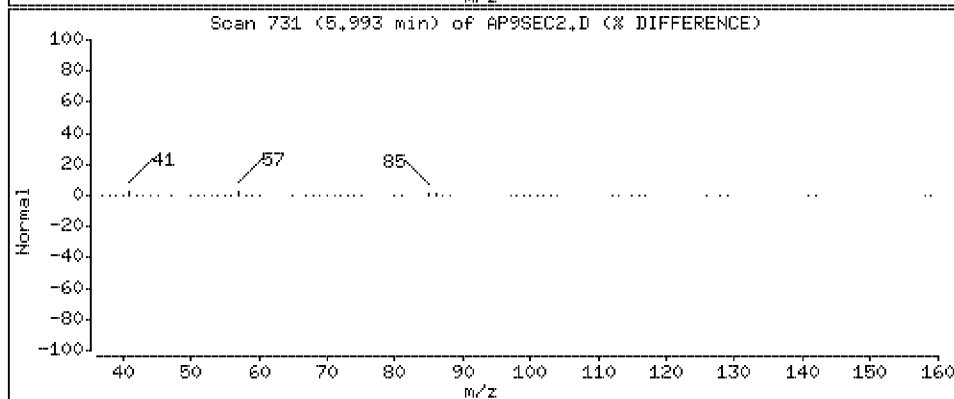
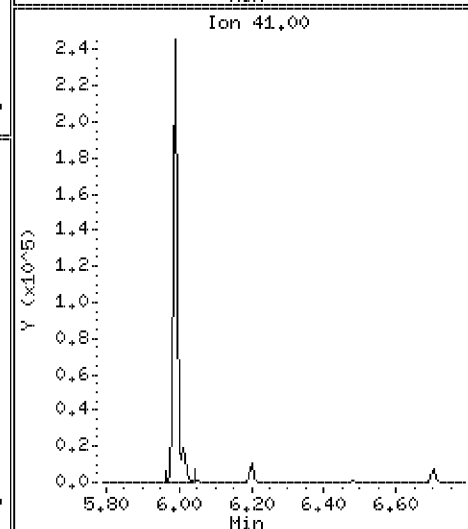
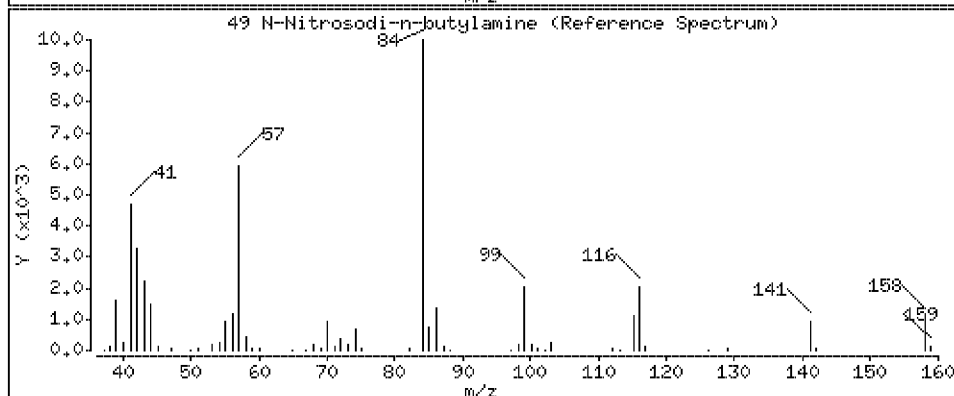
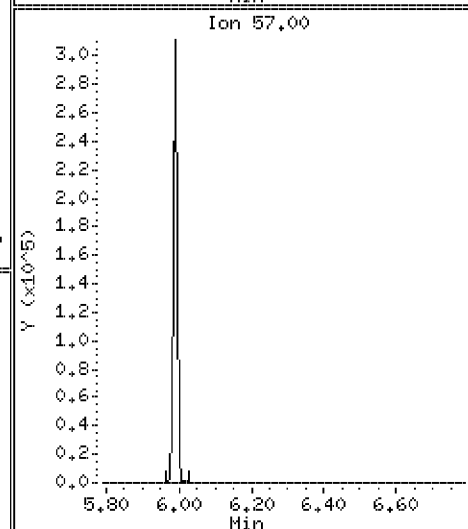
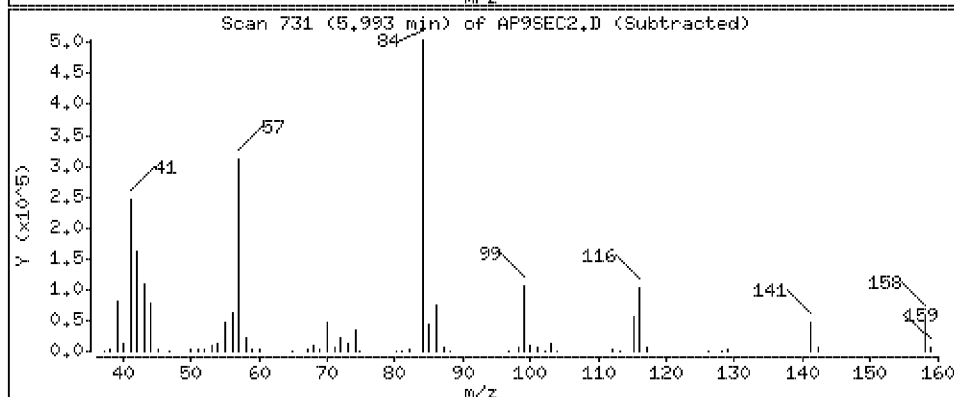
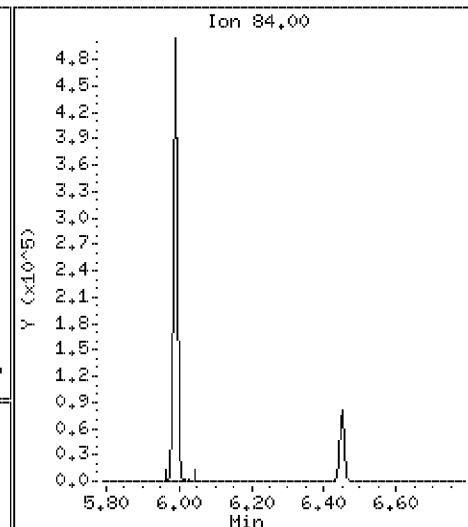
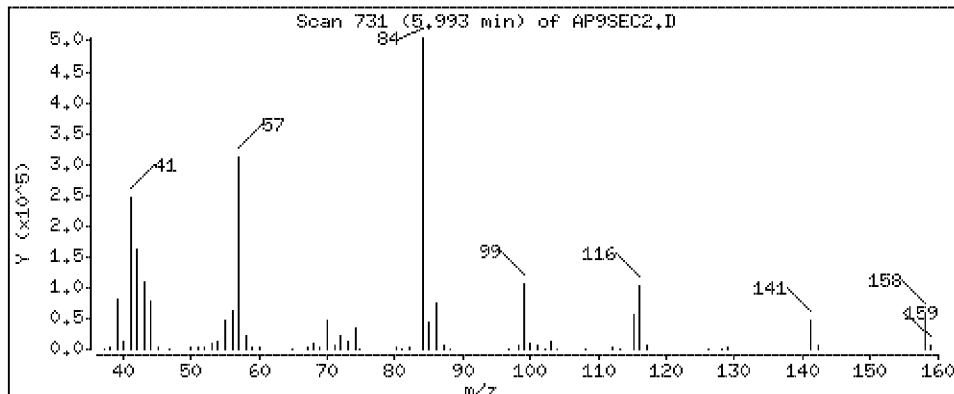
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

49 N-Nitrosodi-n-butylamine

Concentration: 44.2 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

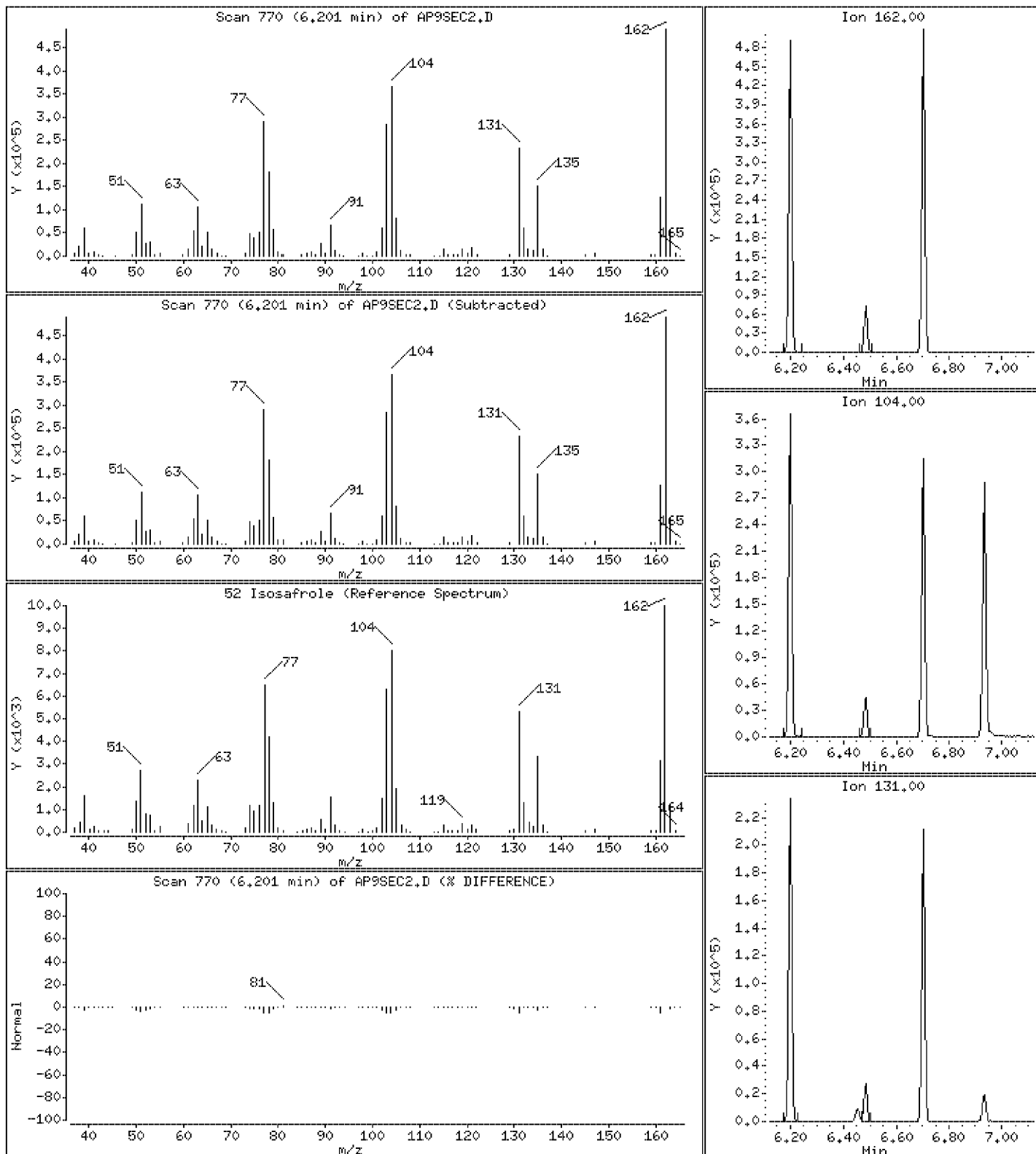
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

52 Isosafrole

Concentration: 46.0 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

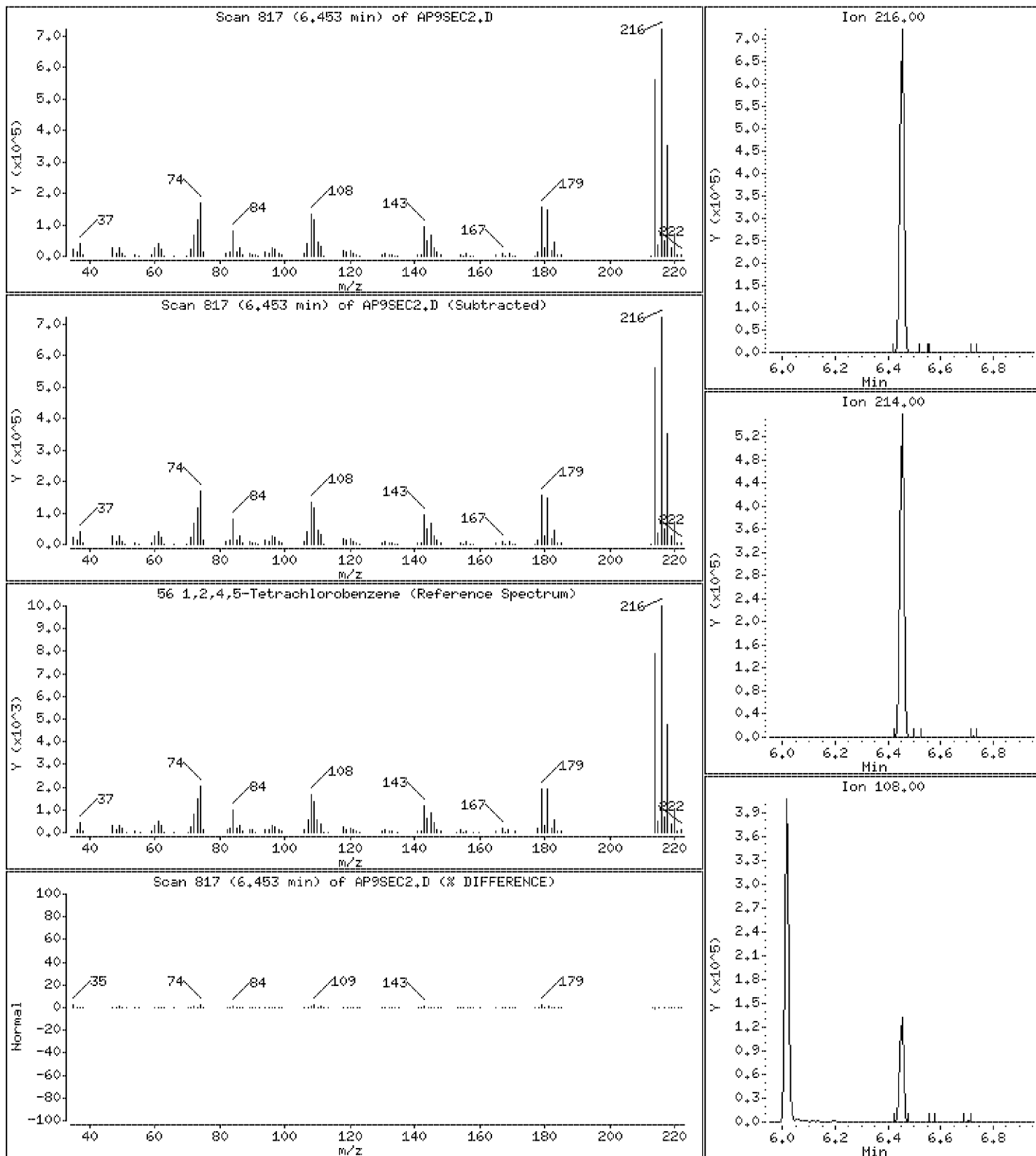
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

56 1,2,4,5-Tetrachlorobenzene

Concentration: 42.4 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

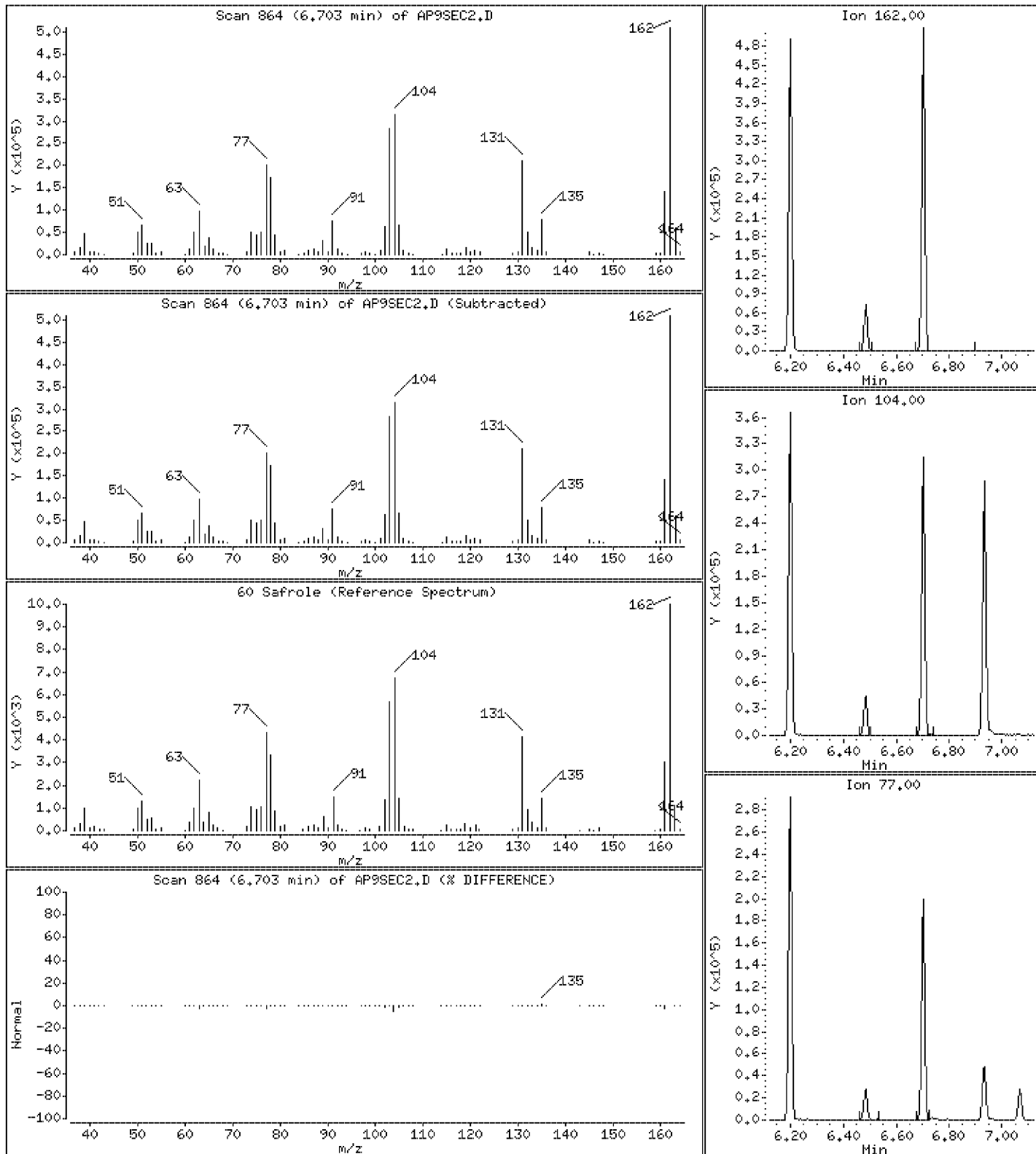
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

60 Safrole

Concentration: 50.7 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

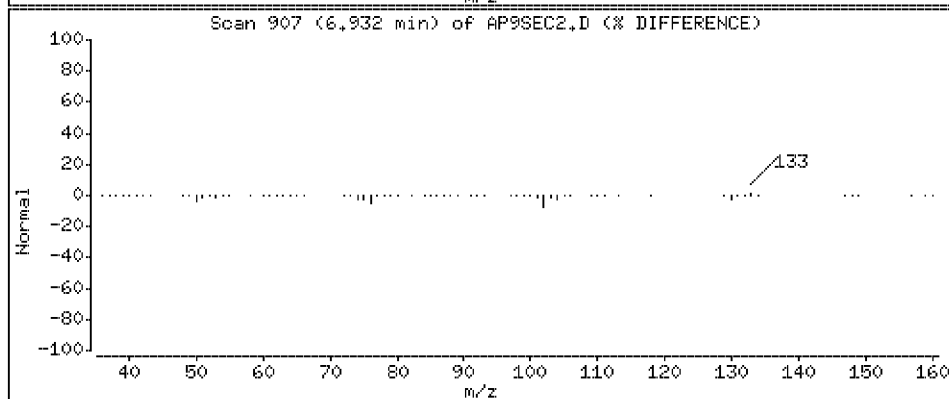
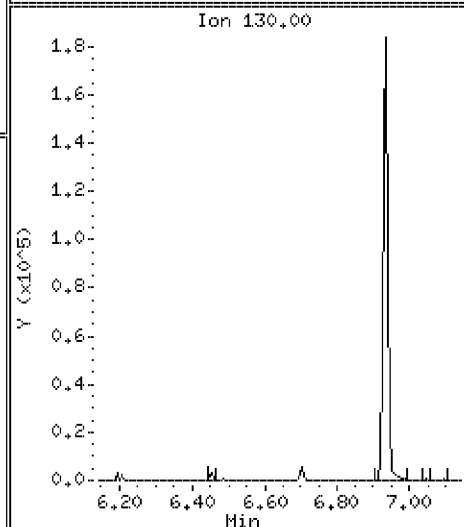
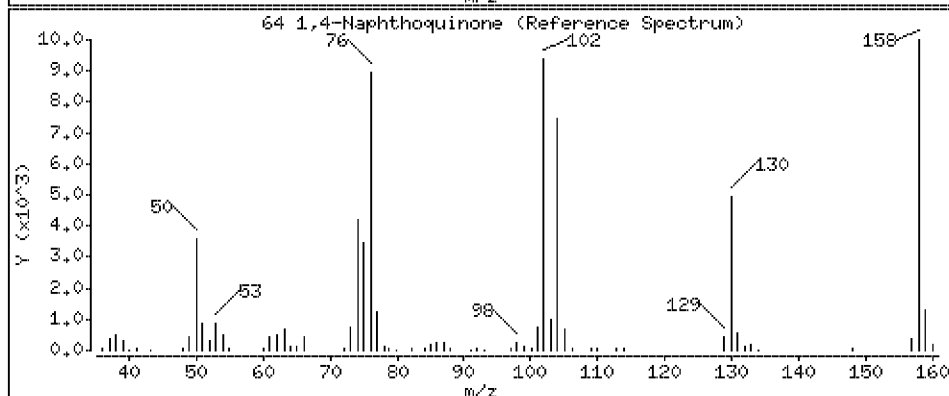
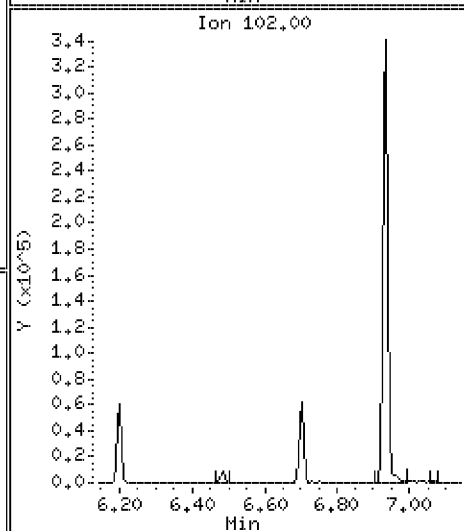
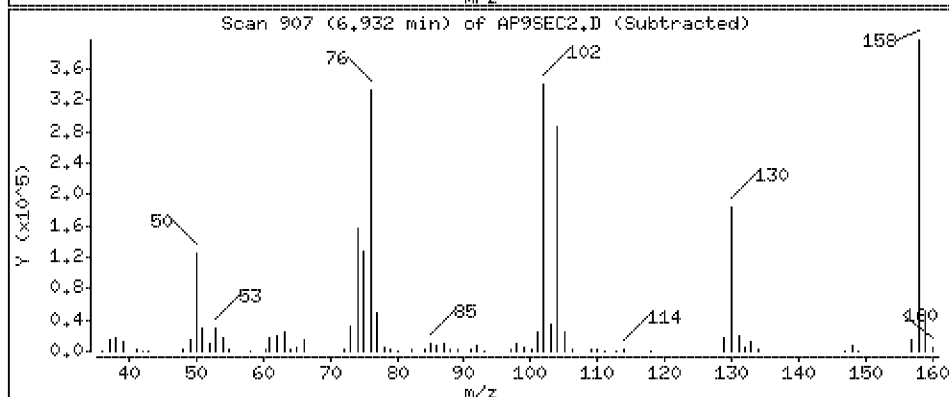
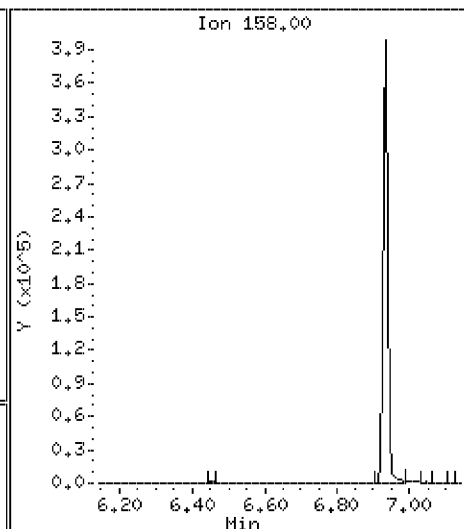
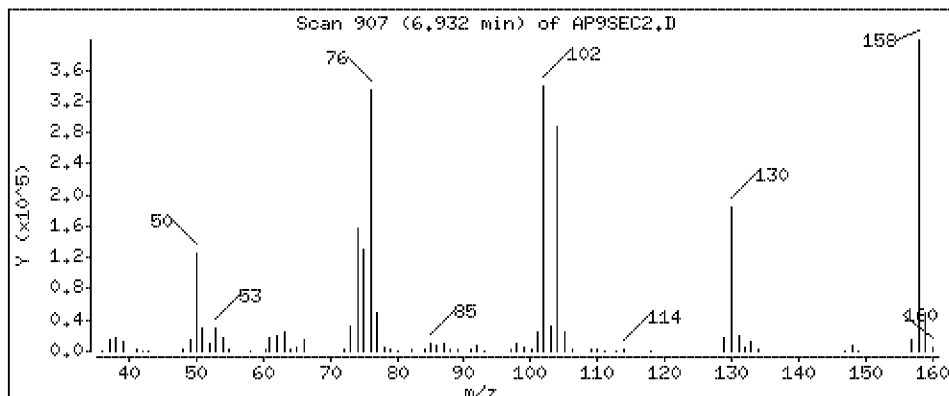
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

64 1,4-Naphthoquinone

Concentration: 44.7 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

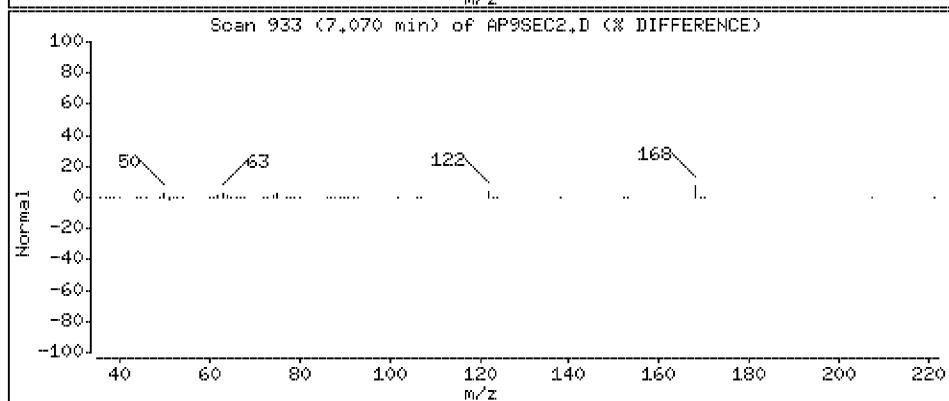
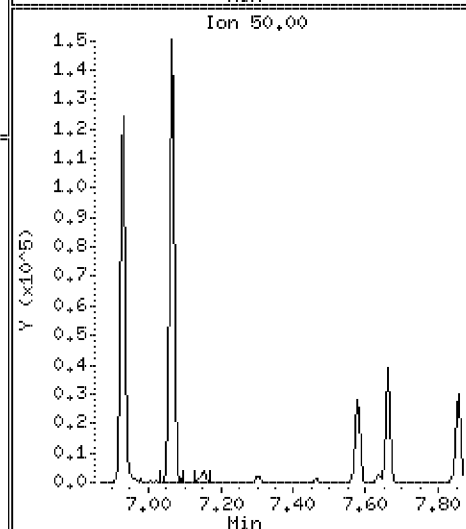
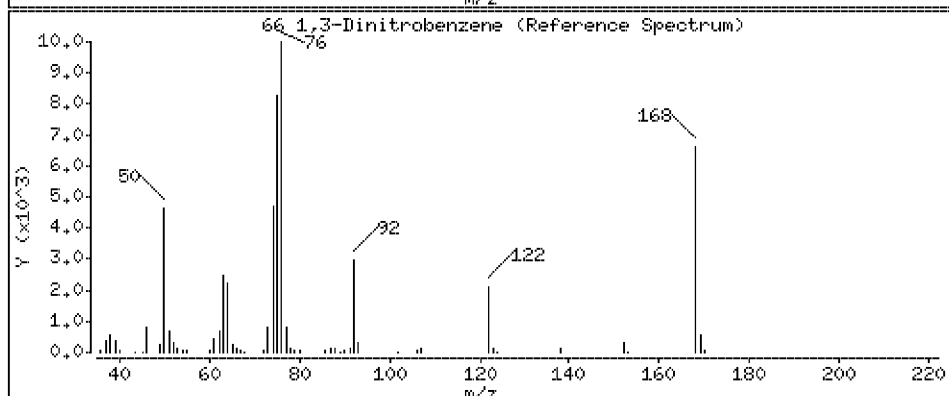
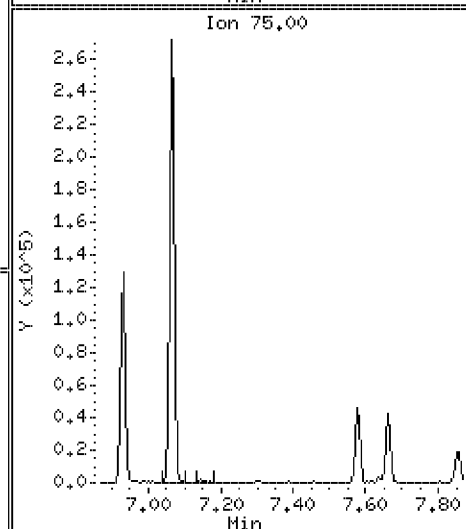
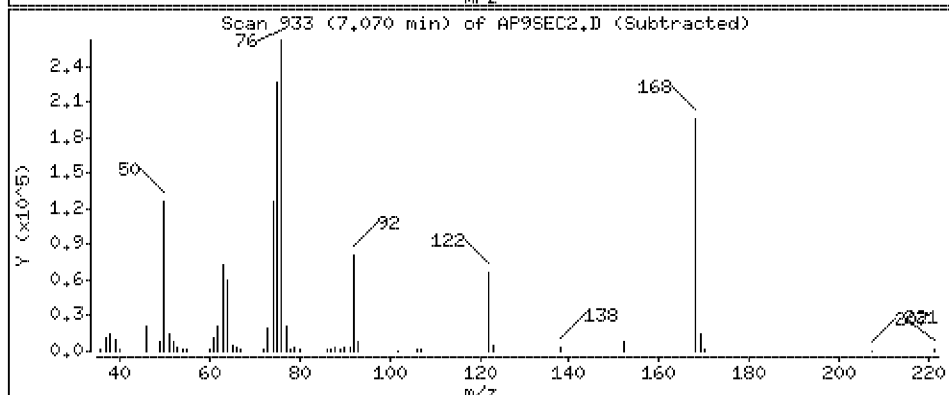
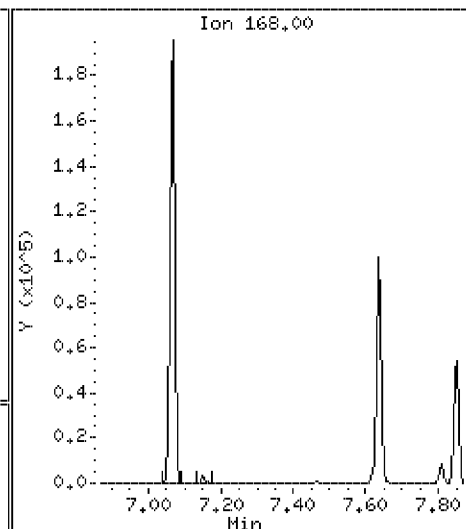
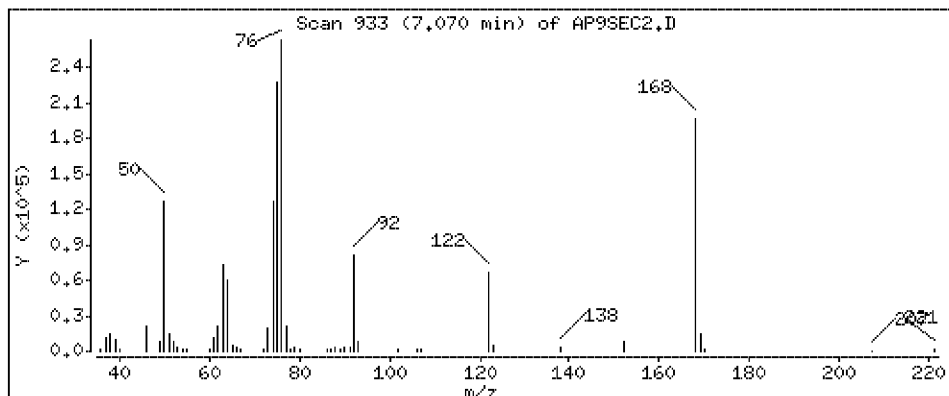
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

66 1,3-Dinitrobenzene

Concentration: 47.5 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

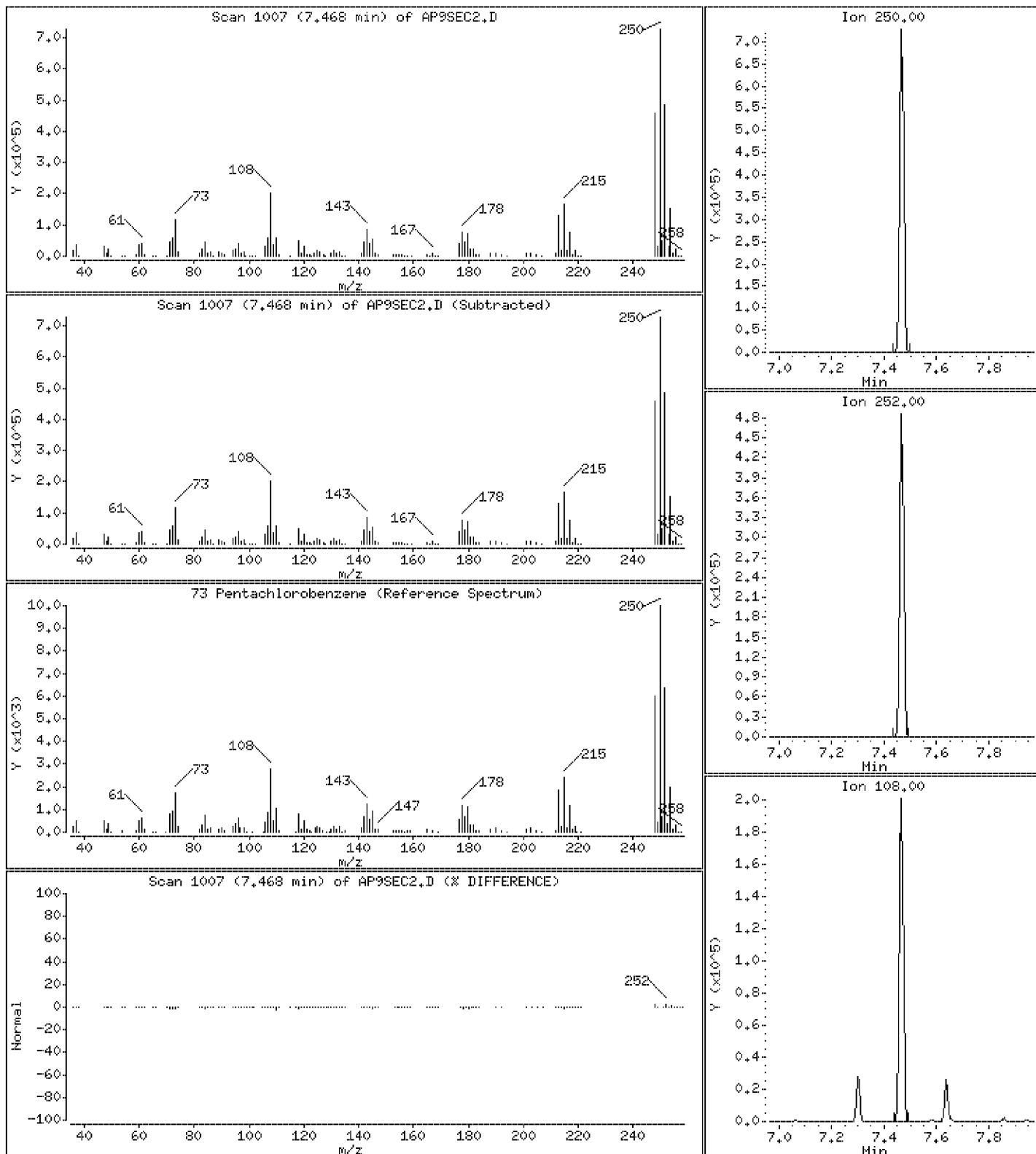
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

73 Pentachlorobenzene

Concentration: 44.2 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

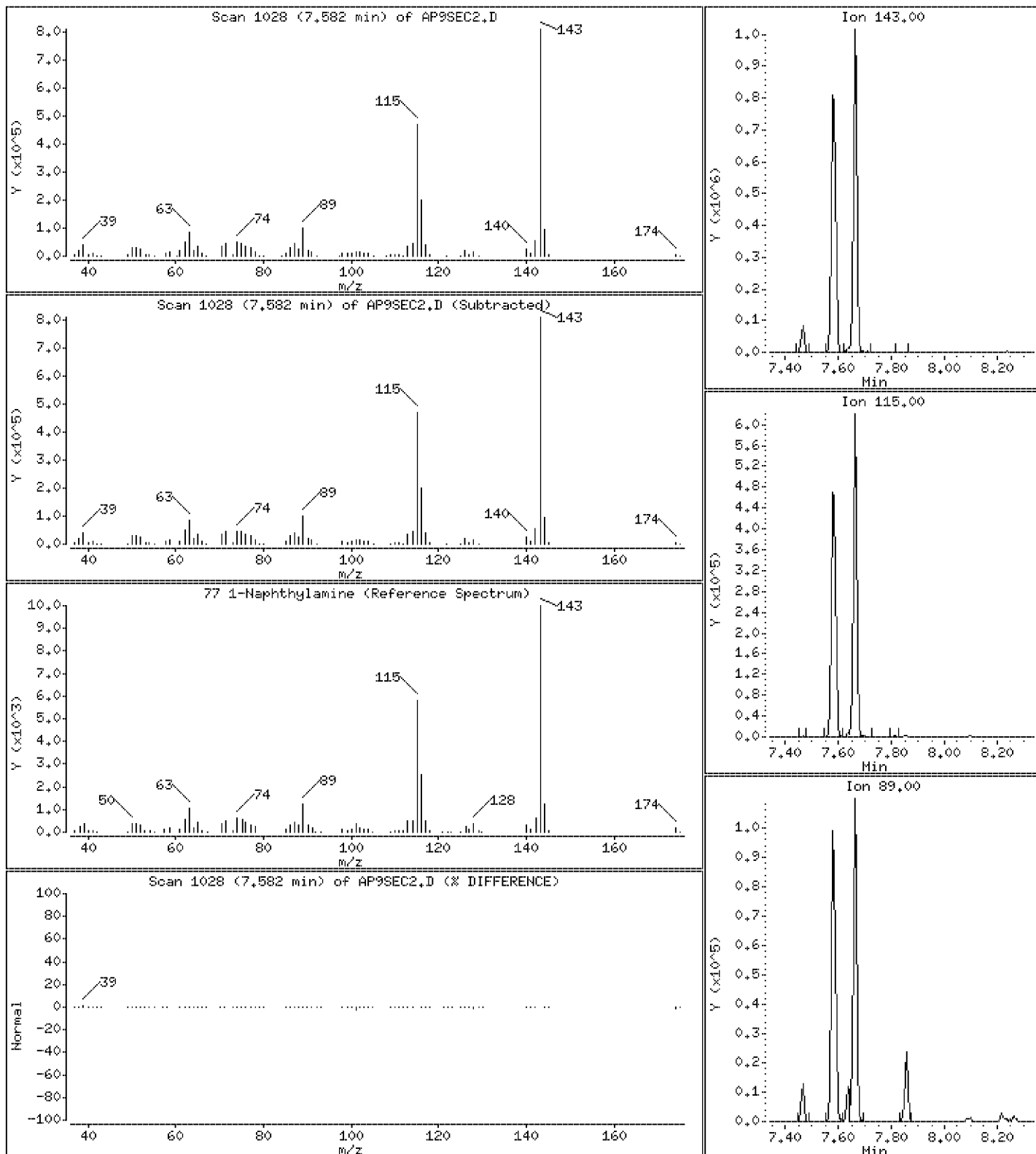
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

77 1-Naphthylamine

Concentration: 59.6 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

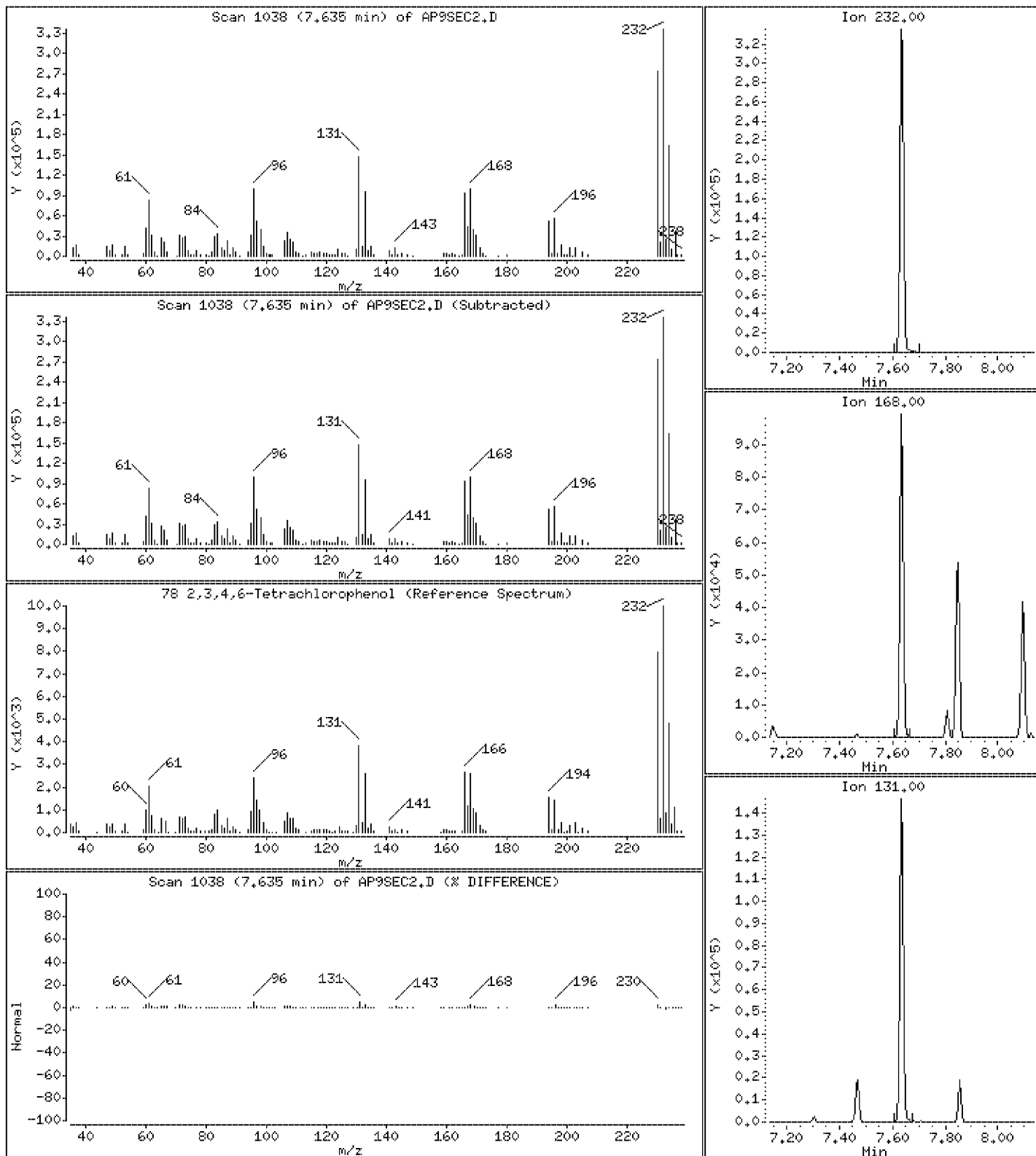
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

78 2,3,4,6-Tetrachlorophenol

Concentration: 41.6 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

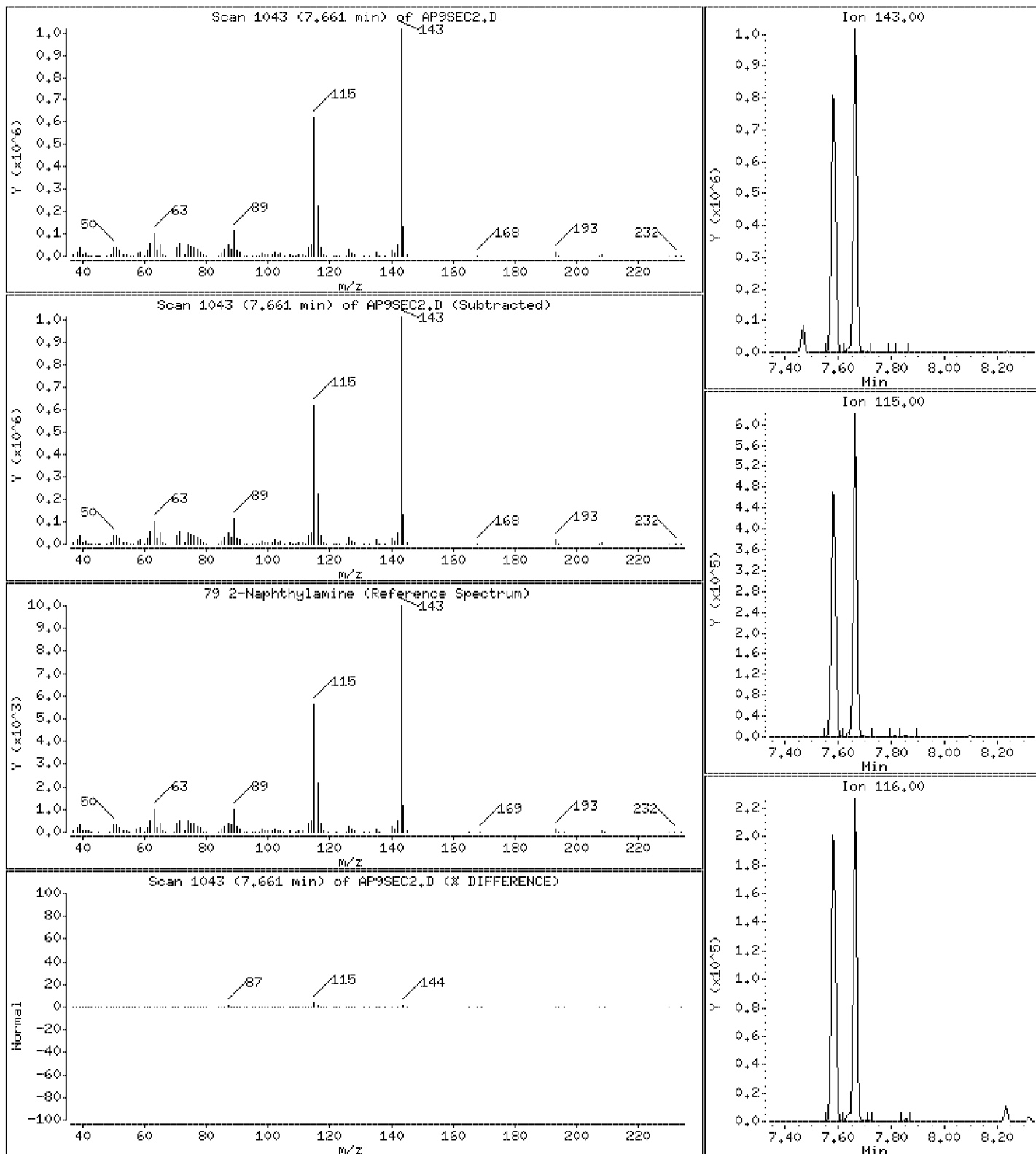
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

79 2-Naphthylamine

Concentration: 55.2 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

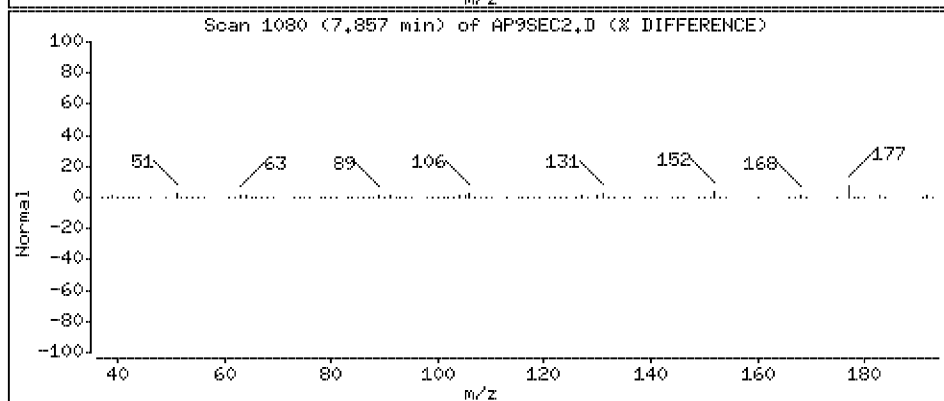
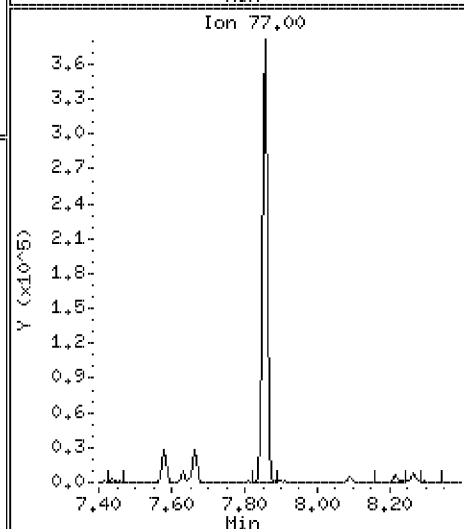
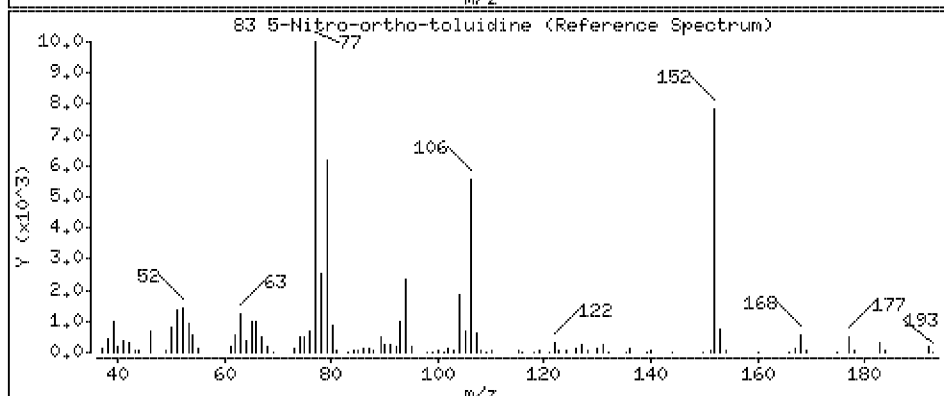
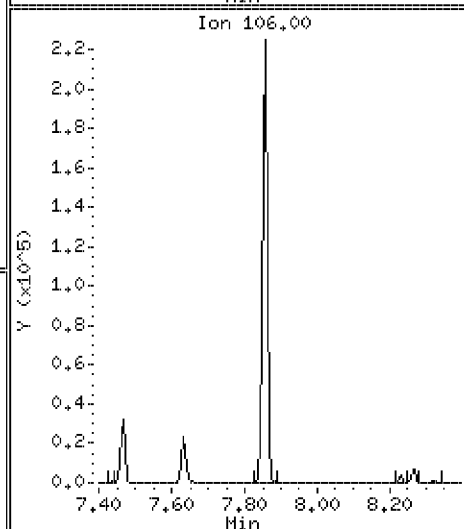
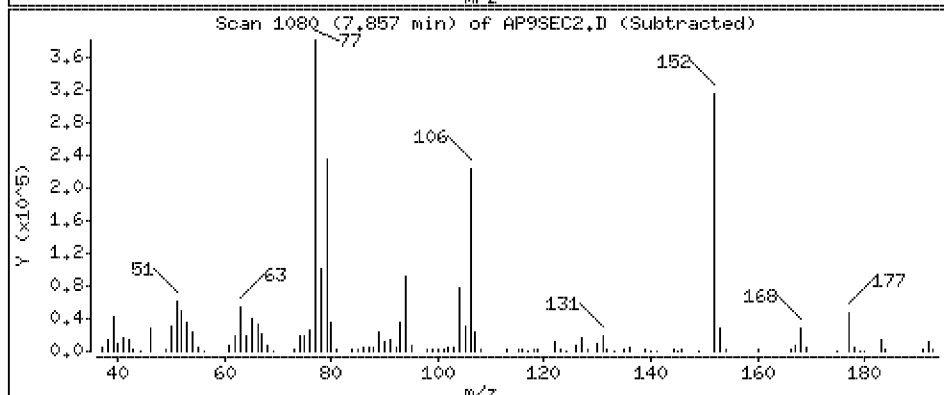
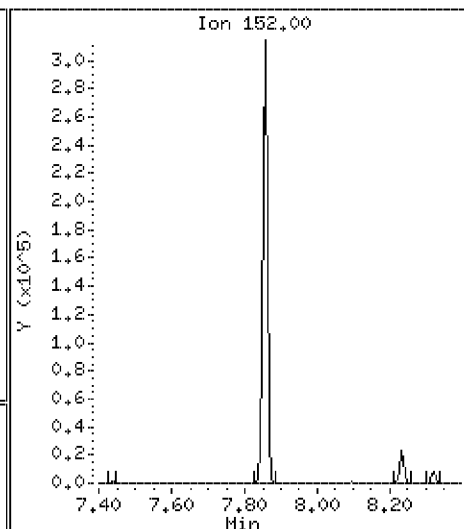
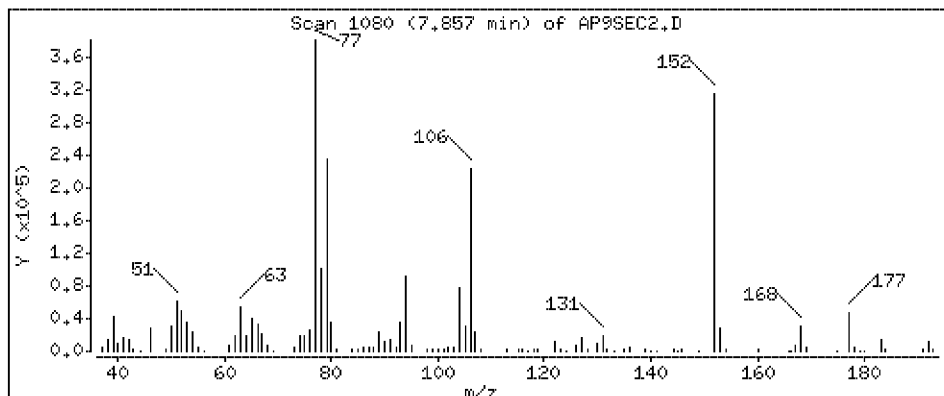
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

83 5-Nitro-ortho-toluidine

Concentration: 42.3 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

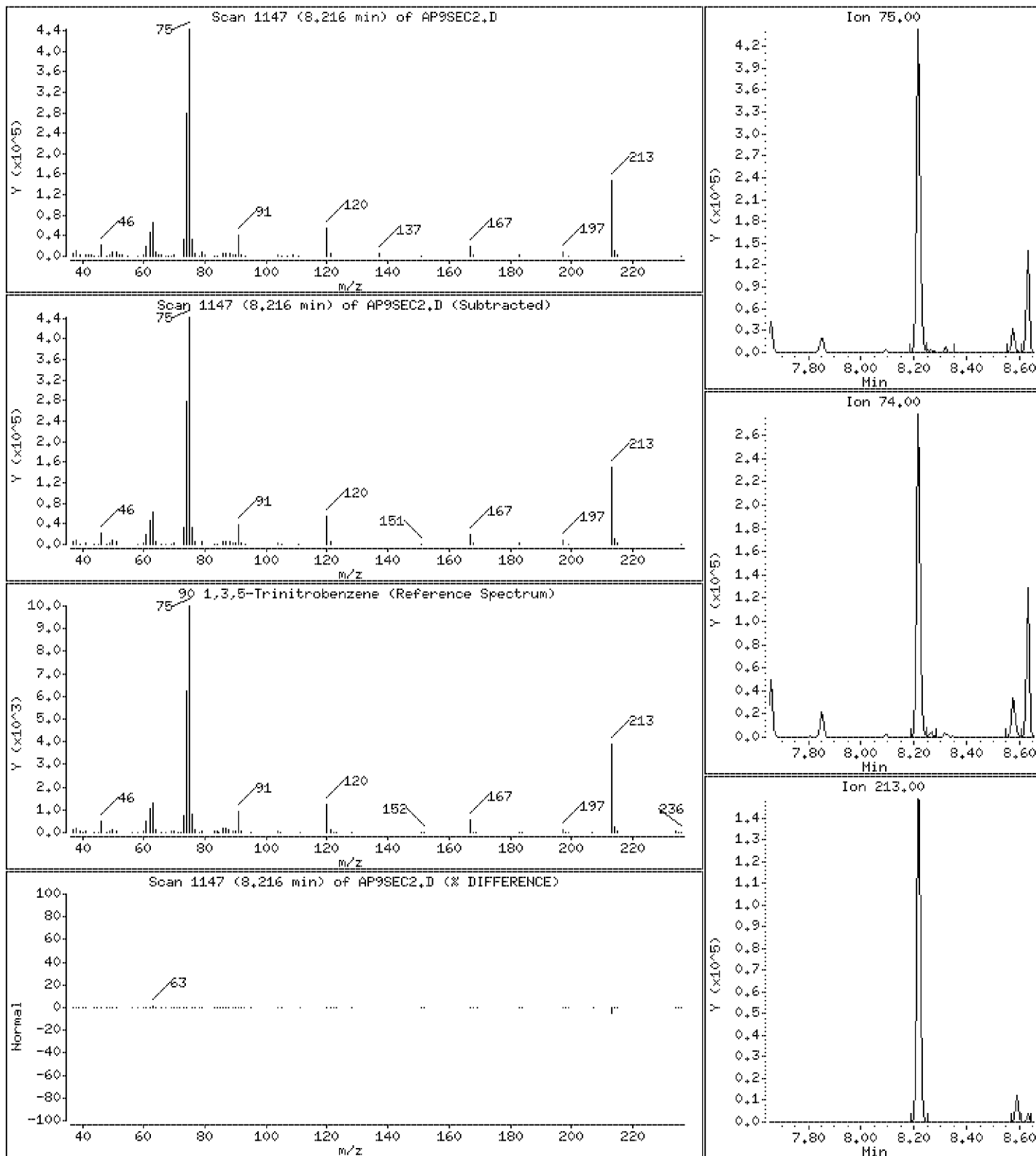
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

90 1,3,5-Trinitrobenzene

Concentration: 25.4 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

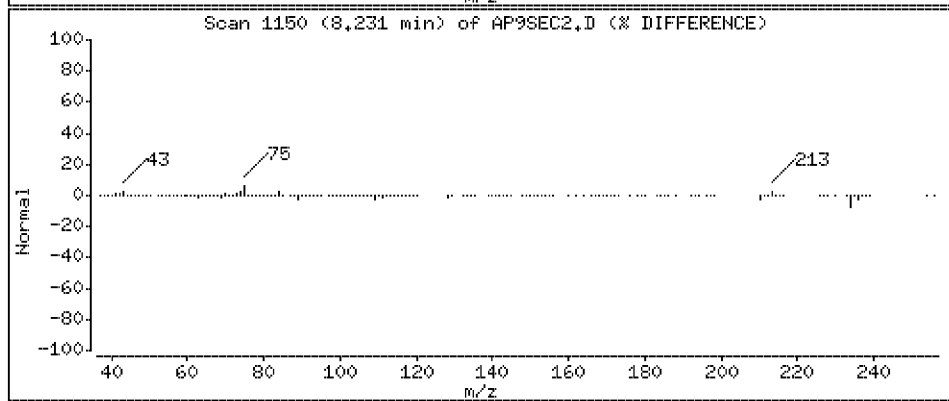
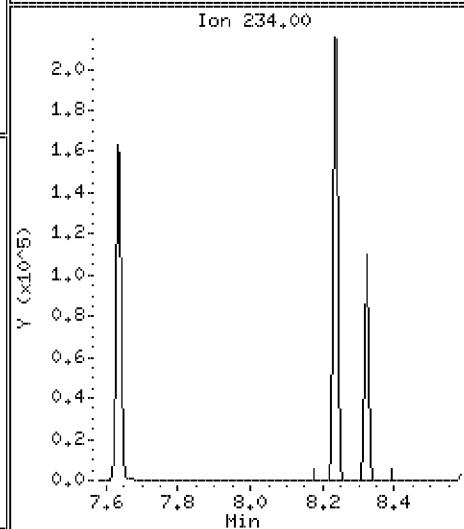
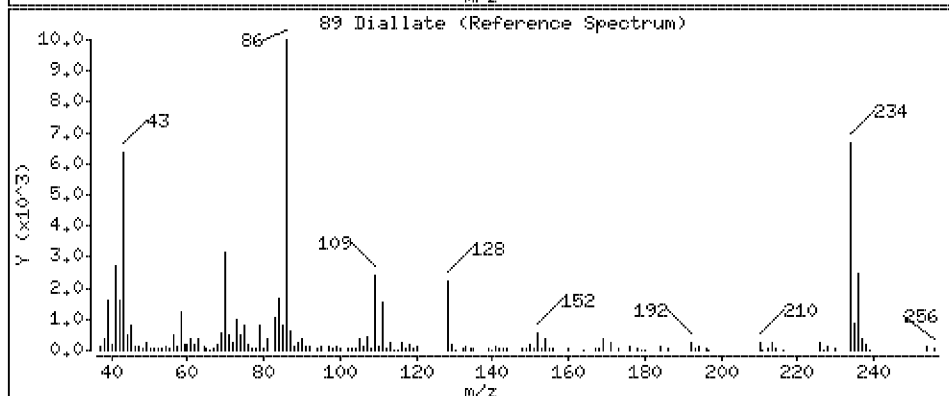
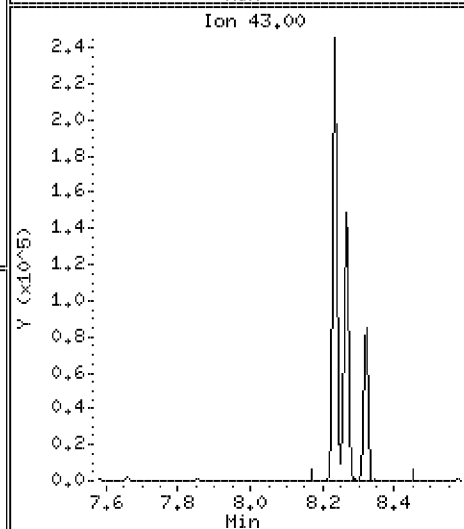
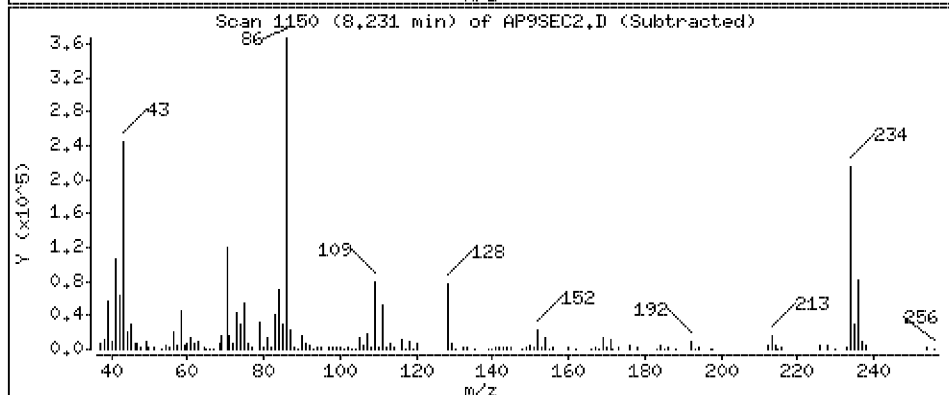
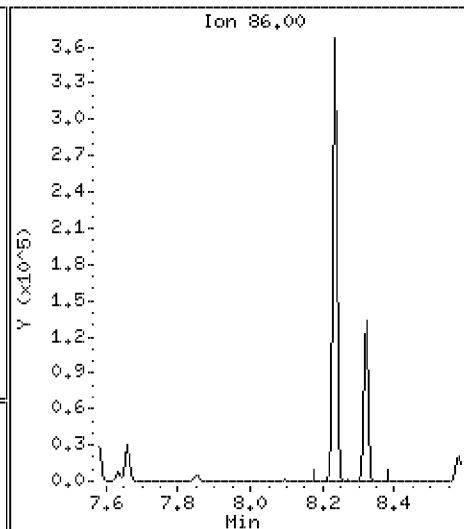
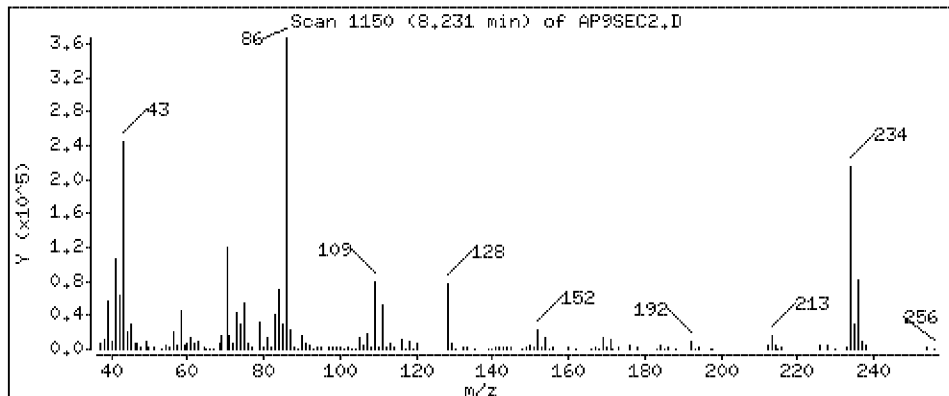
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

89 Diallate

Concentration: 43.5 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

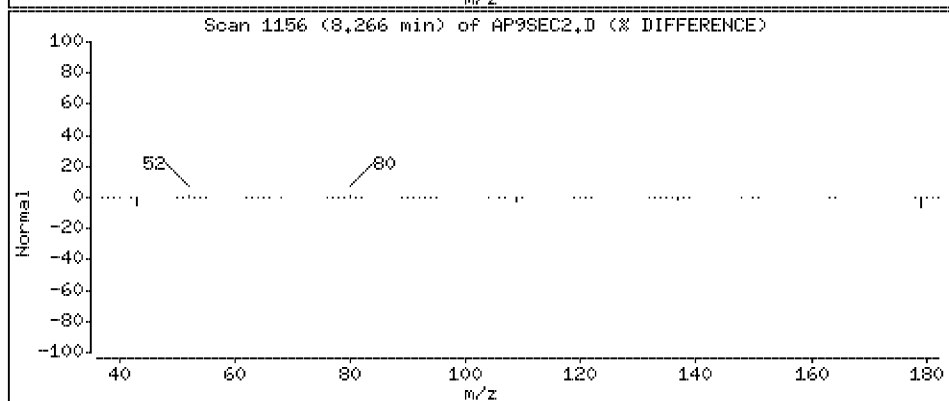
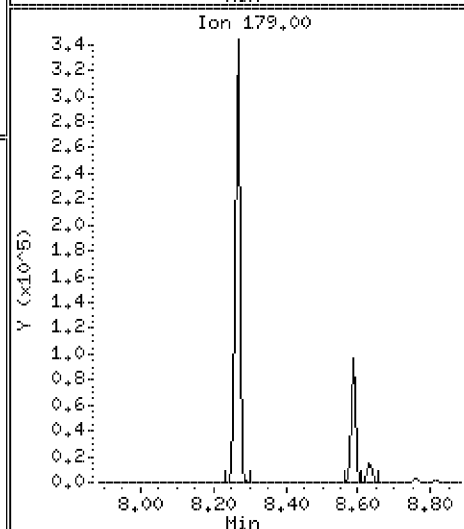
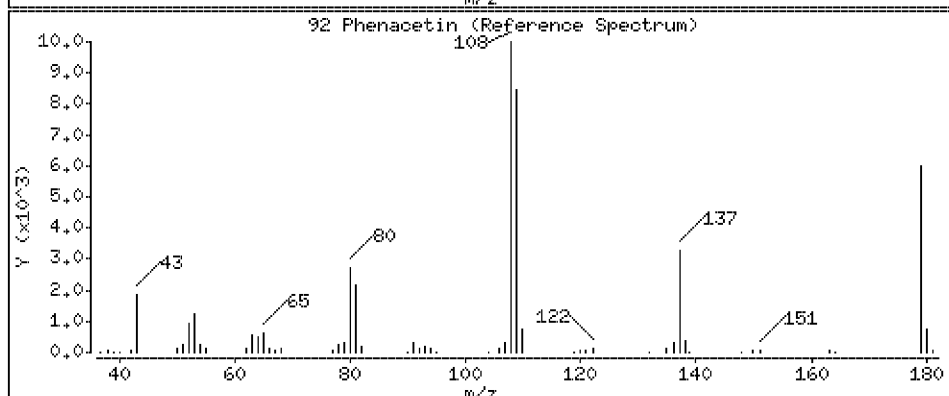
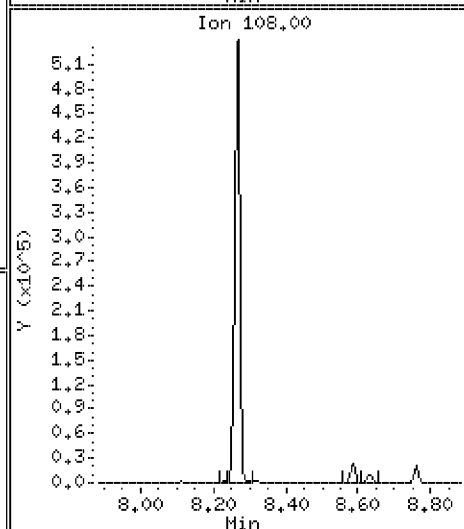
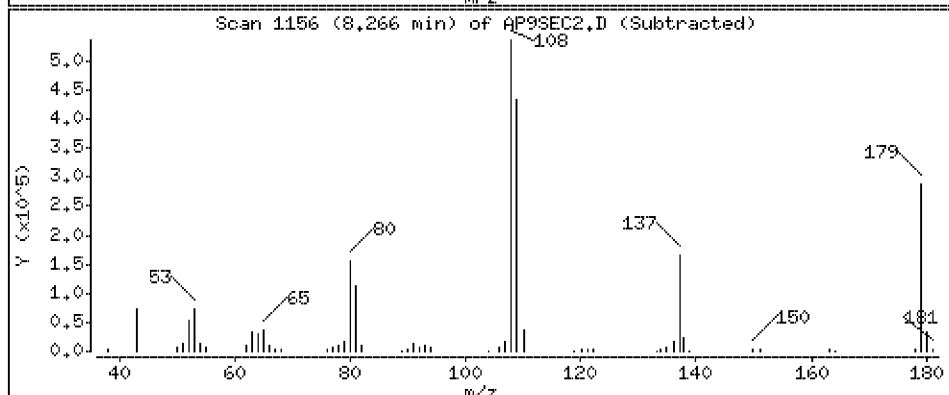
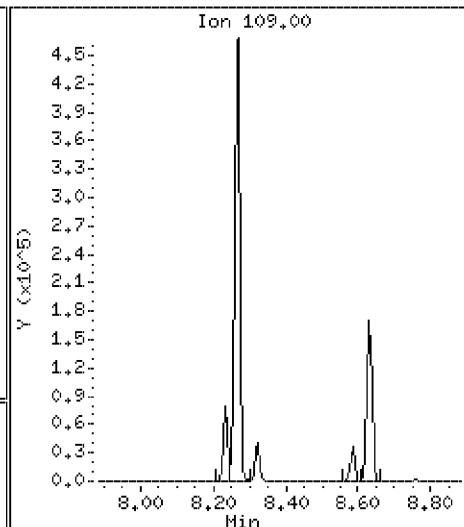
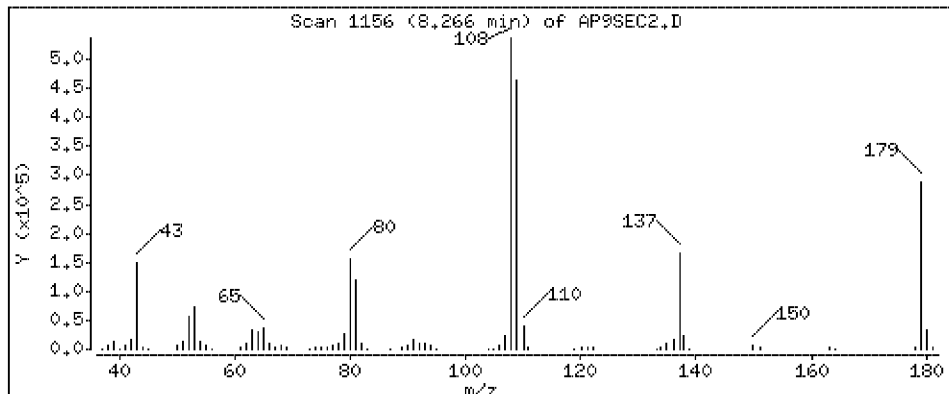
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

92 Phenacetin

Concentration: 42.9 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

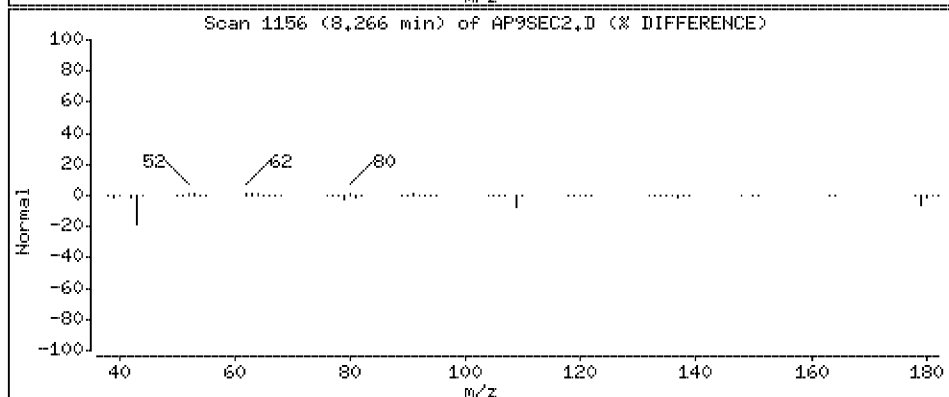
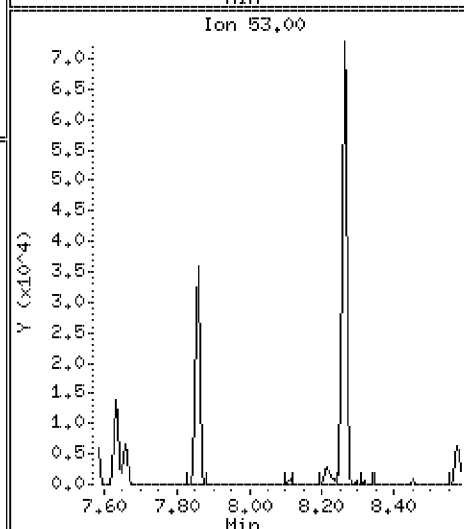
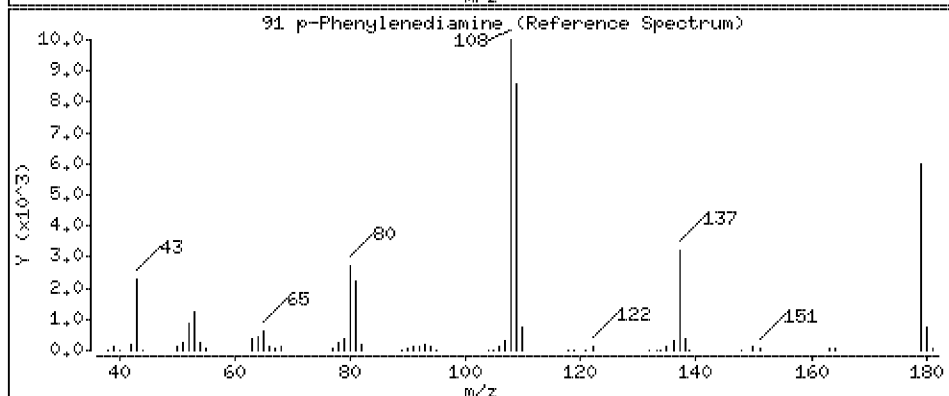
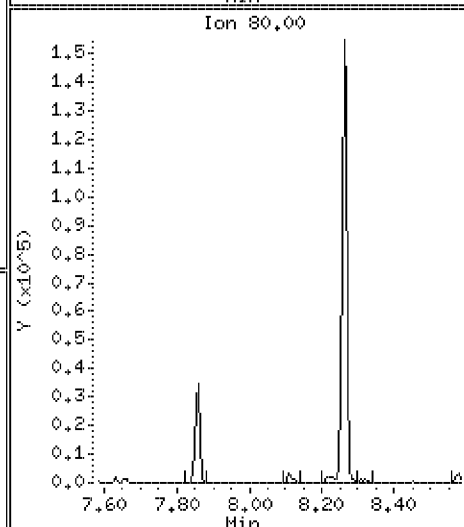
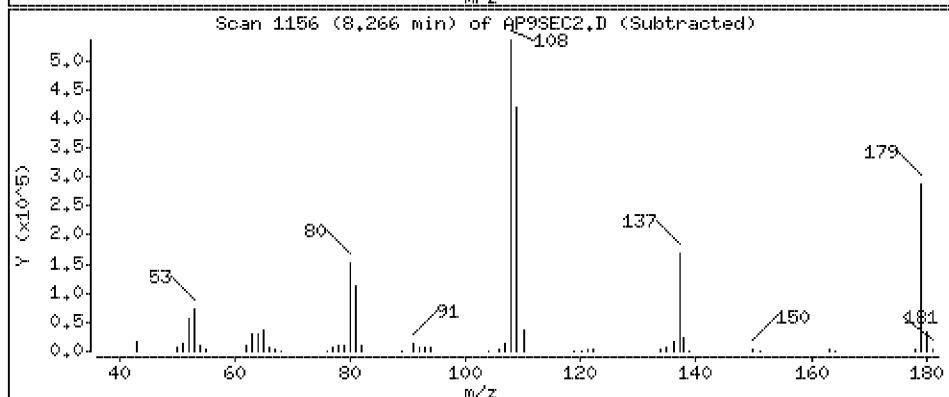
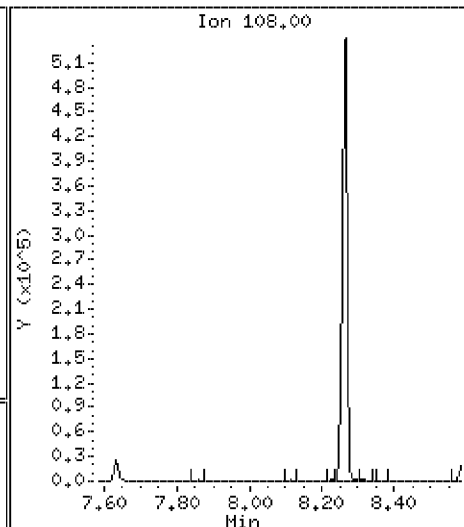
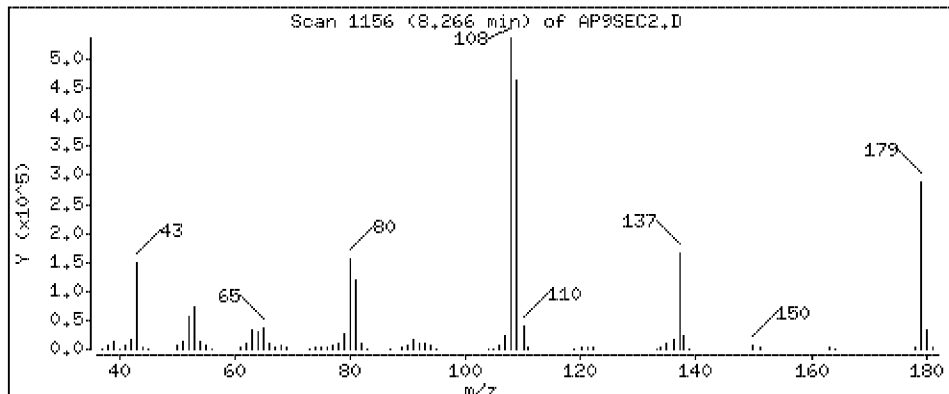
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

91 p-Phenylenediamine

Concentration: 44.9 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

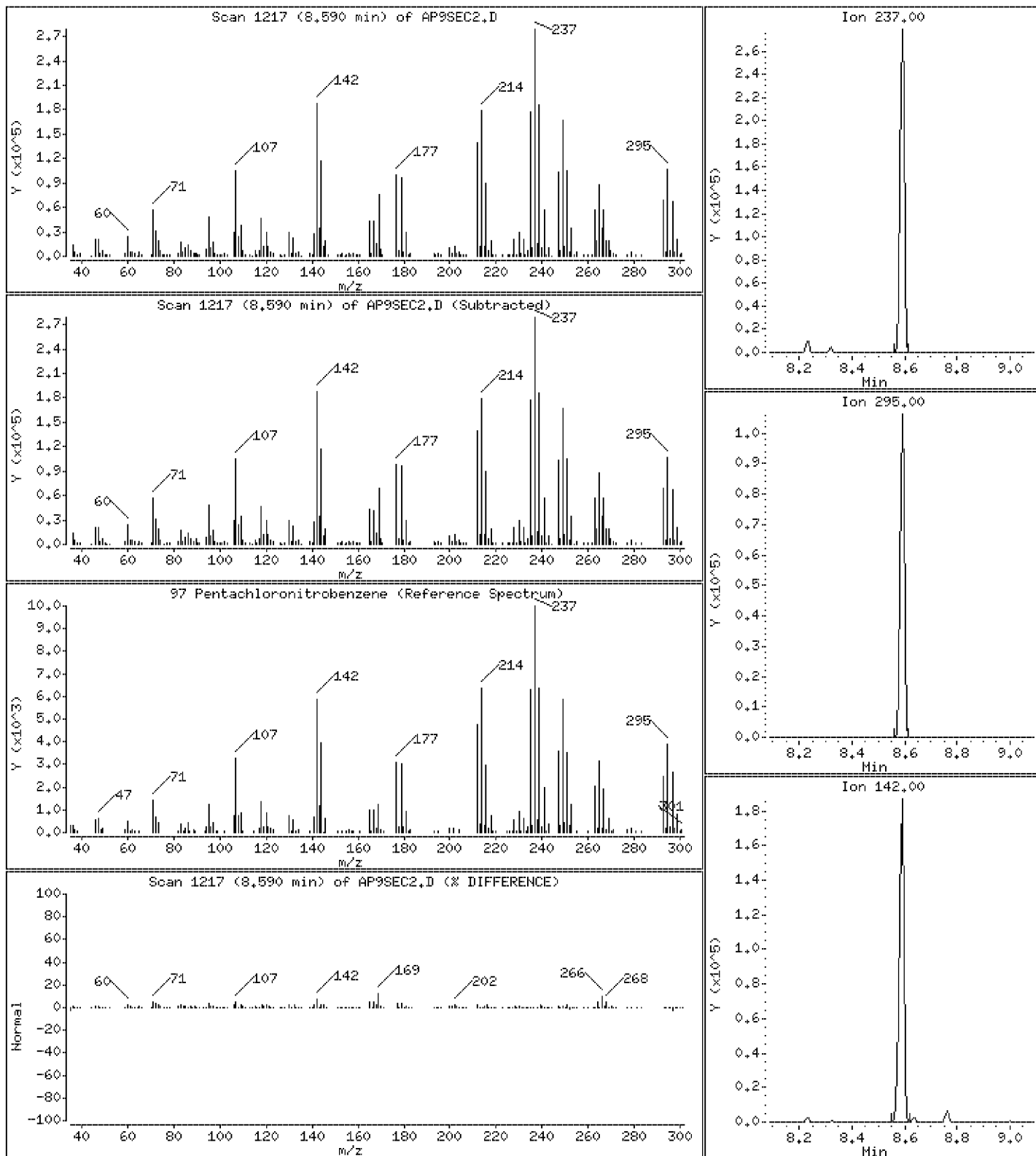
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

97 Pentachloronitrobenzene

Concentration: 45.1 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

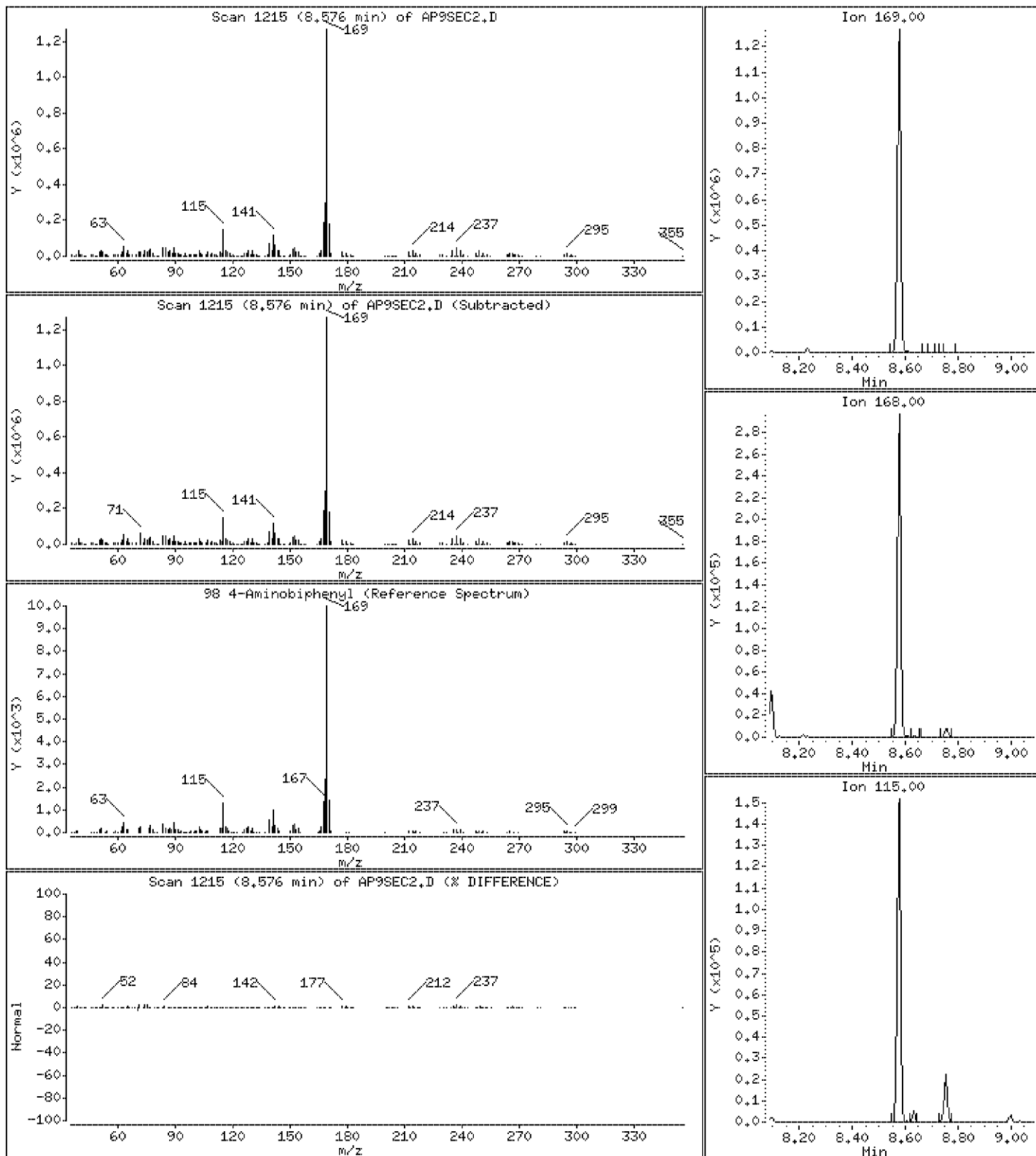
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

98 4-Aminobiphenyl

Concentration: 42.5 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

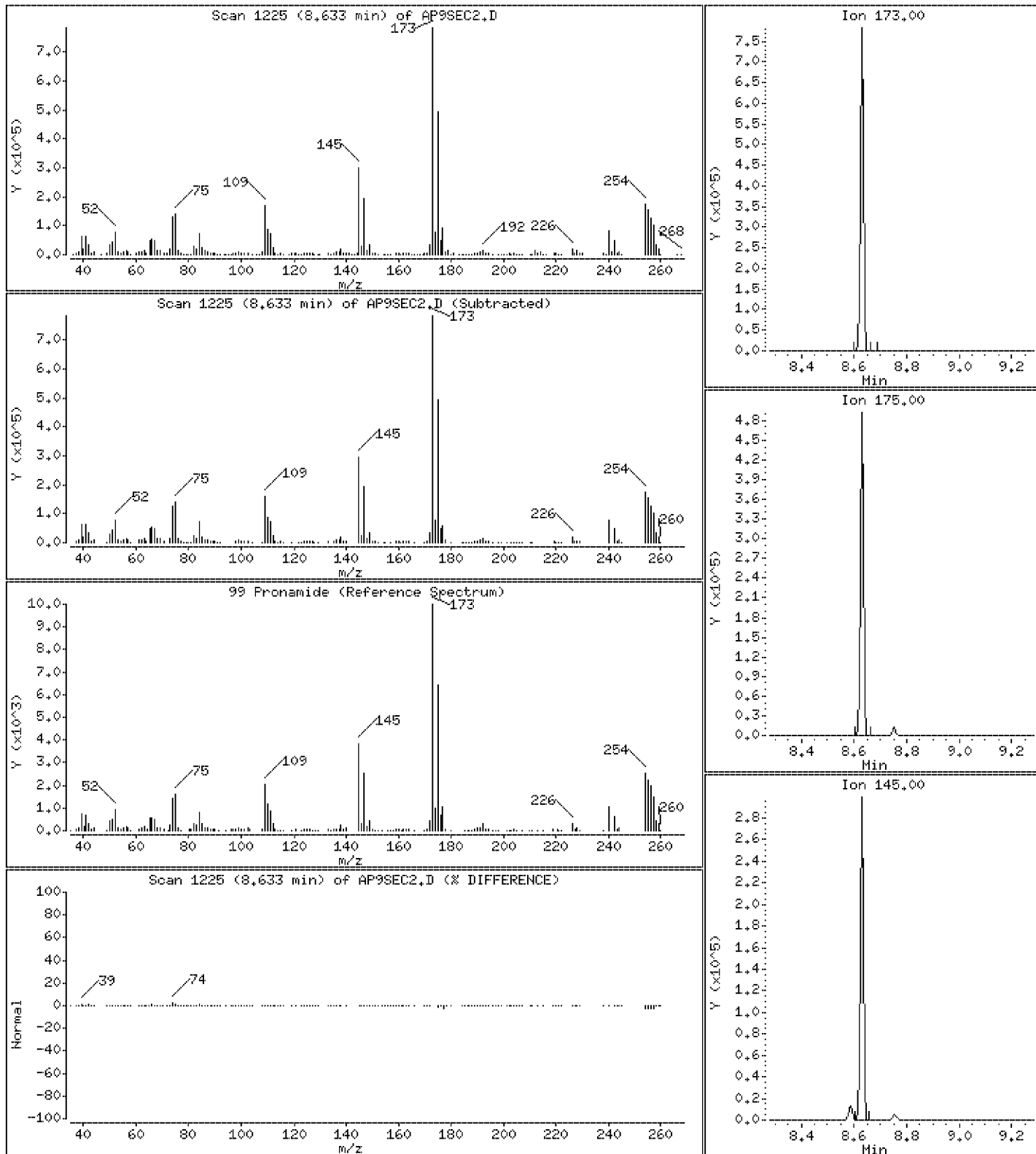
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

99 Pronamide

Concentration: 46.1 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

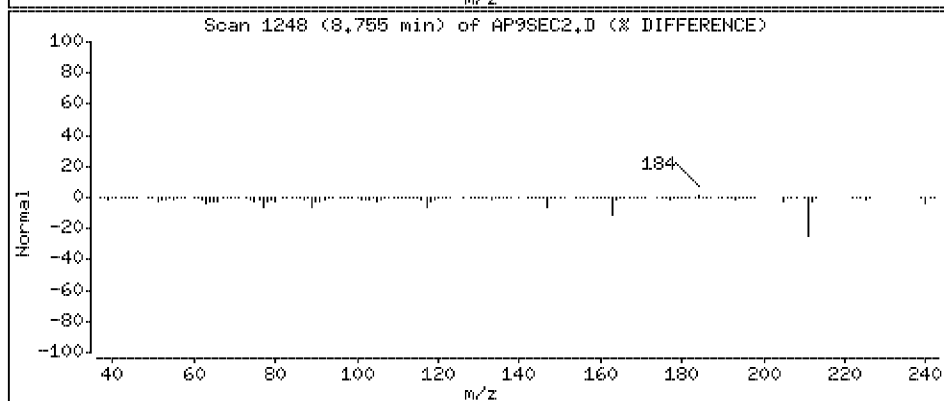
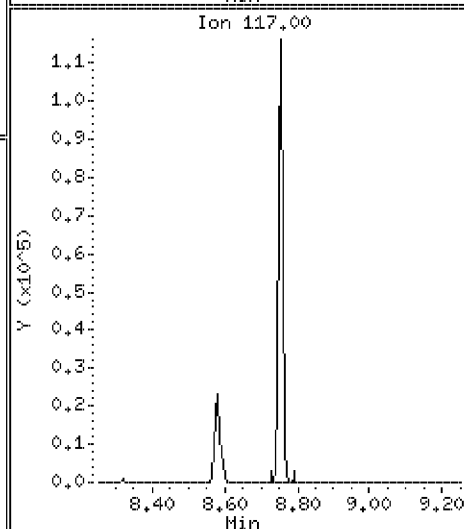
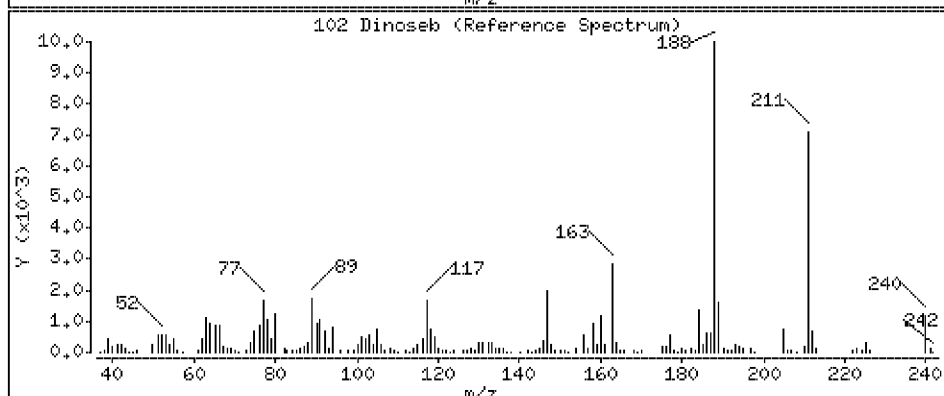
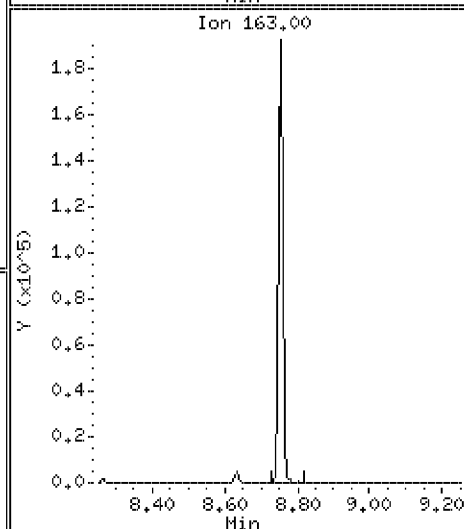
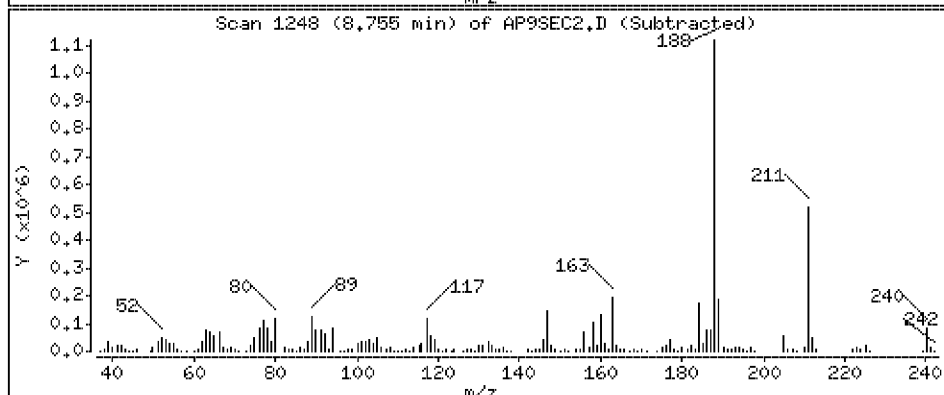
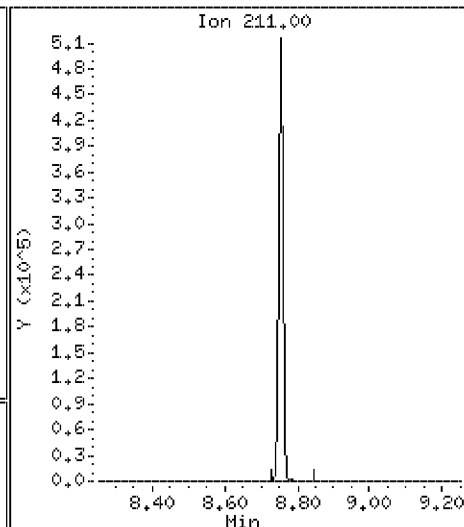
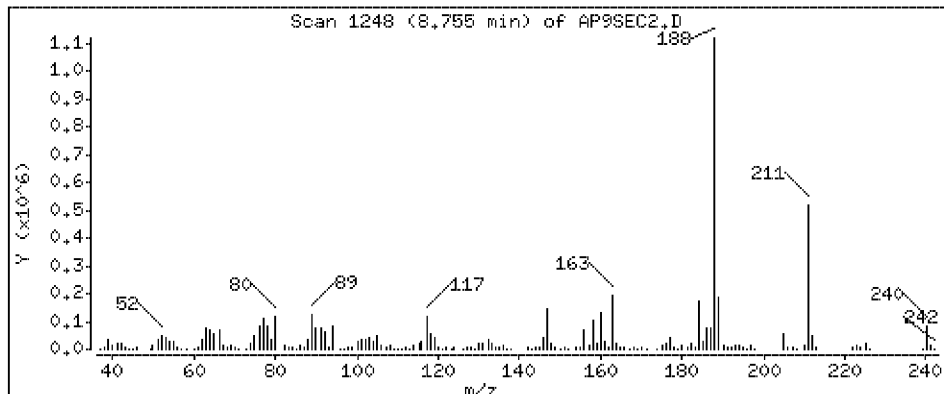
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

102 Dinoseb

Concentration: 46.2 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

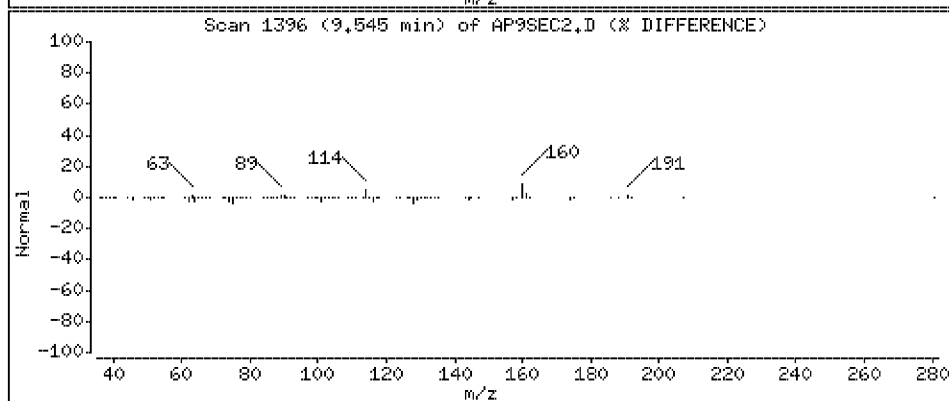
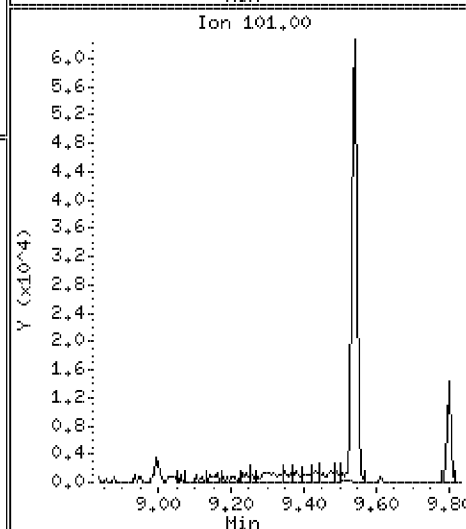
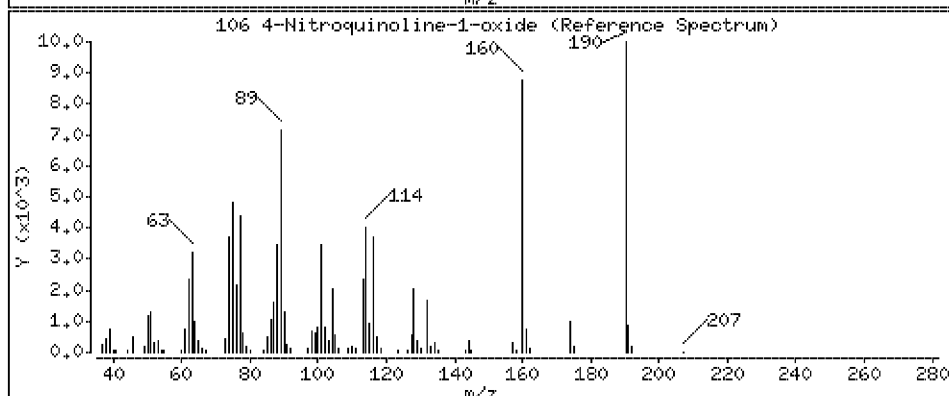
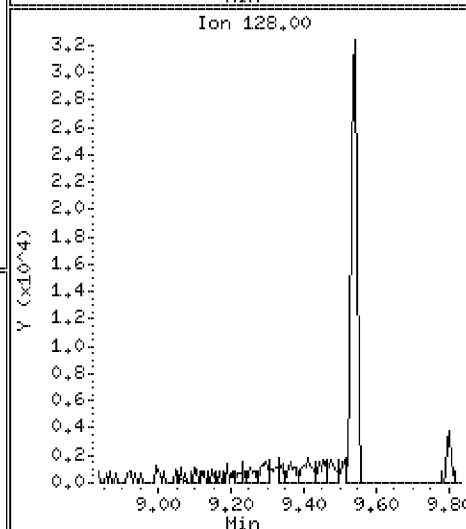
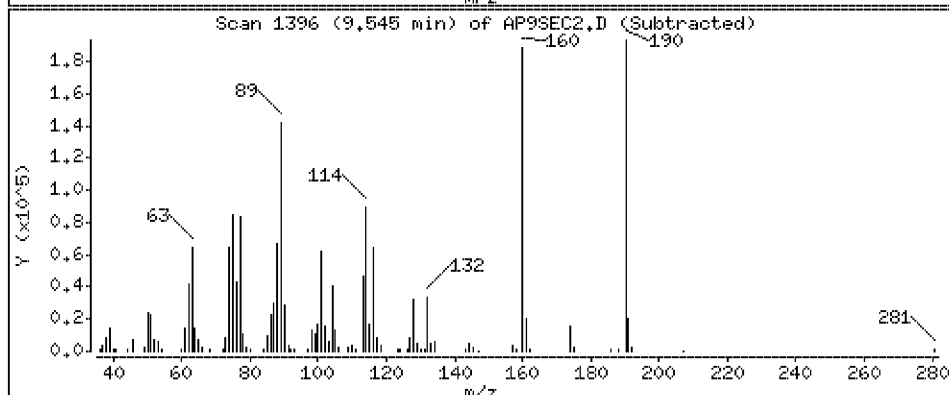
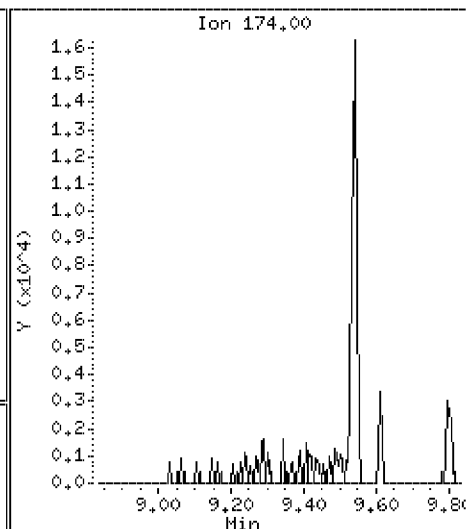
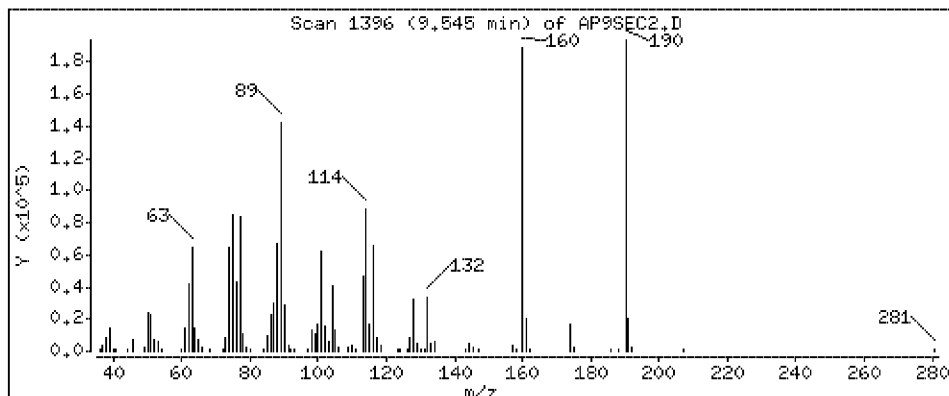
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

106 4-Nitroquinoline-1-oxide

Concentration: 42.8 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

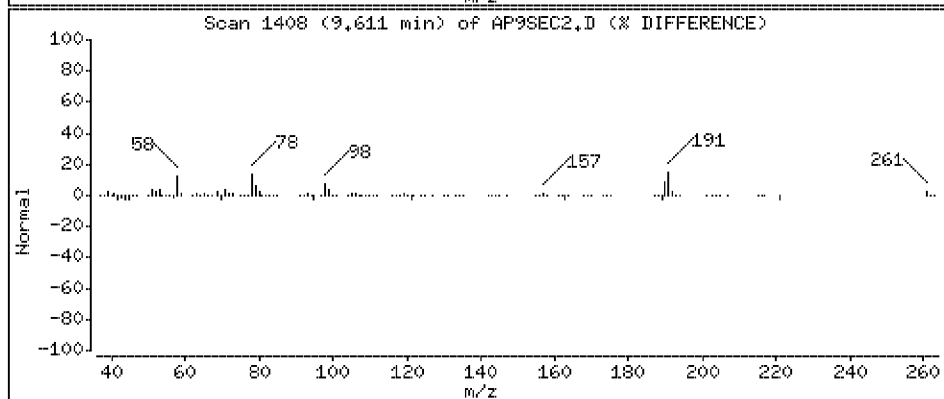
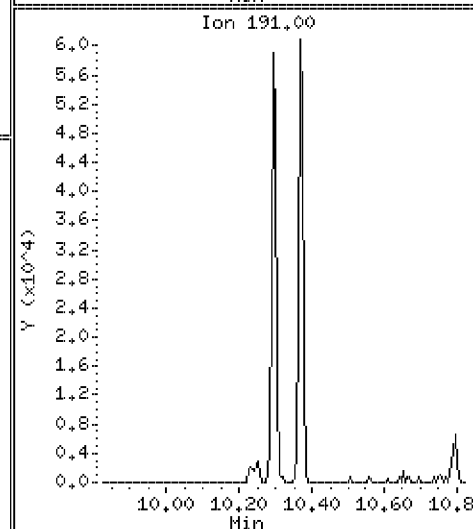
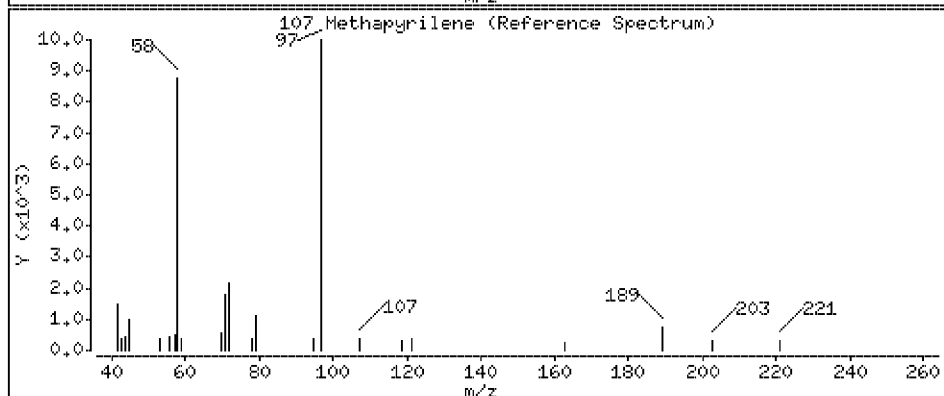
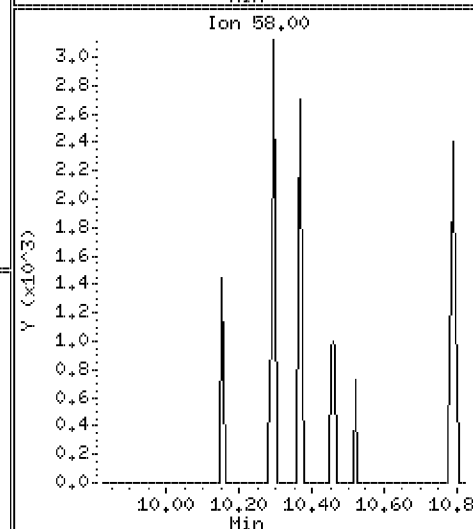
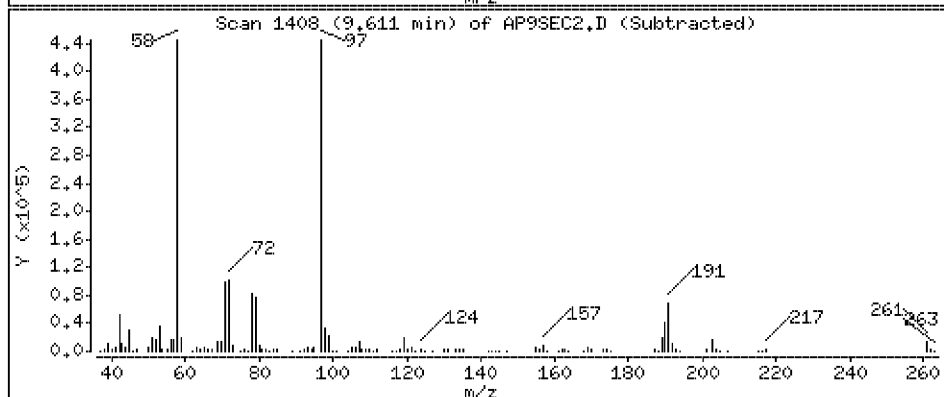
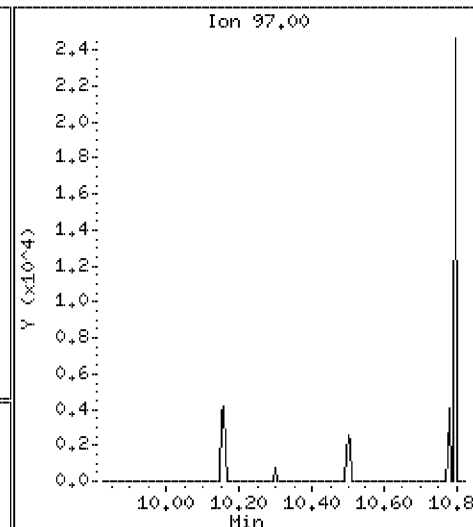
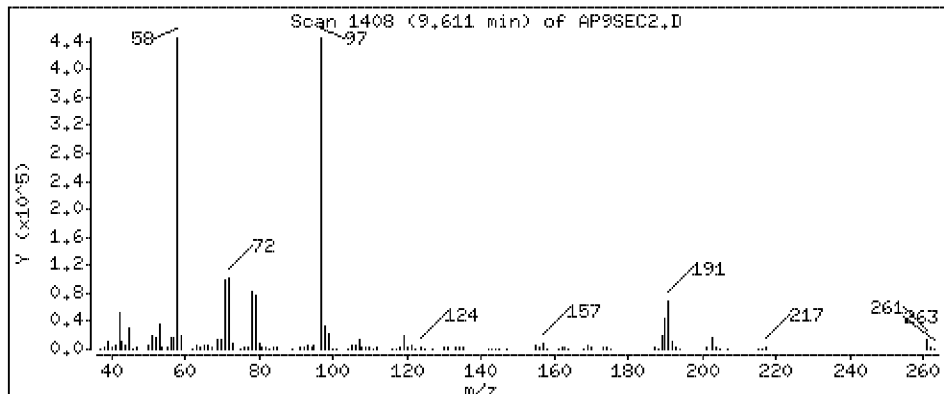
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

107 Methapyrilene

Concentration: 686 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

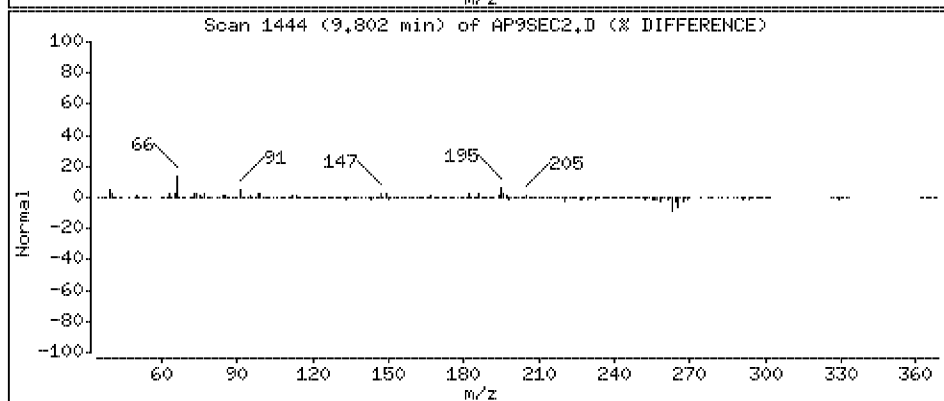
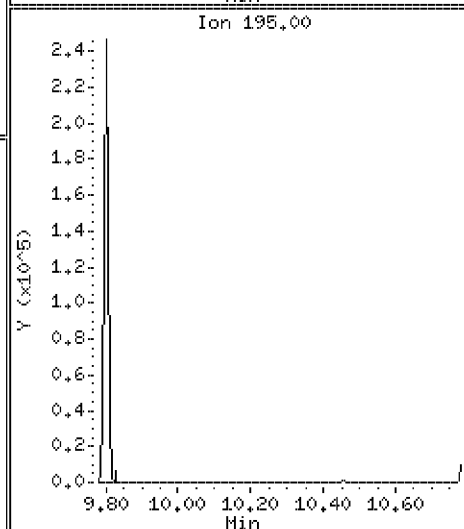
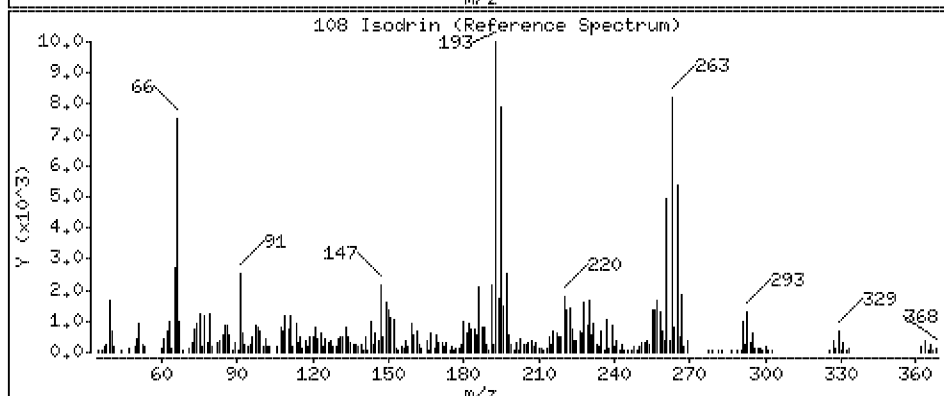
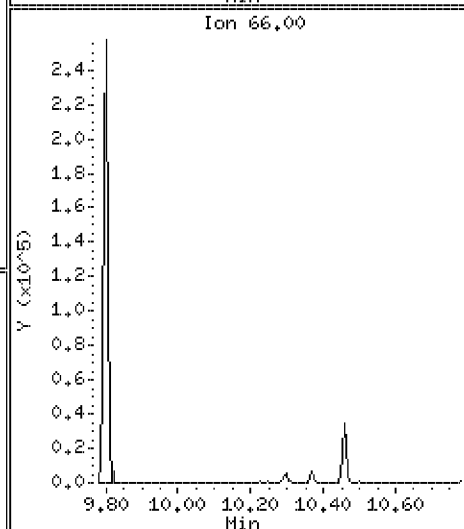
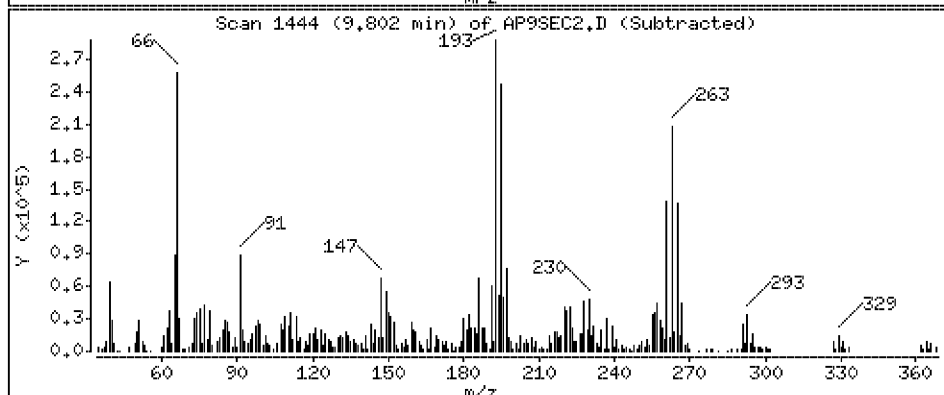
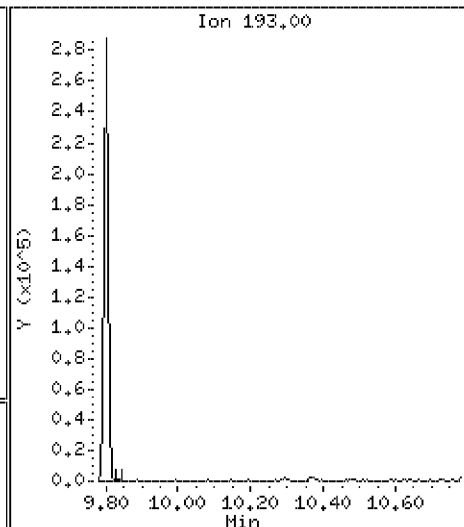
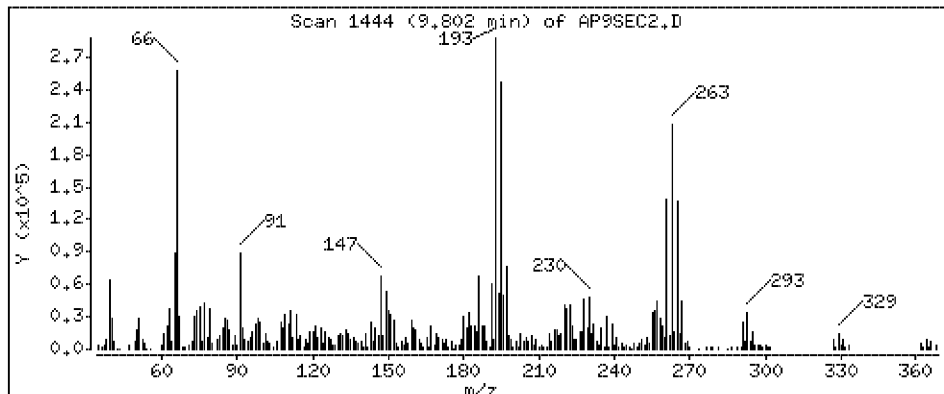
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

108 Isodrin

Concentration: 48.0 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

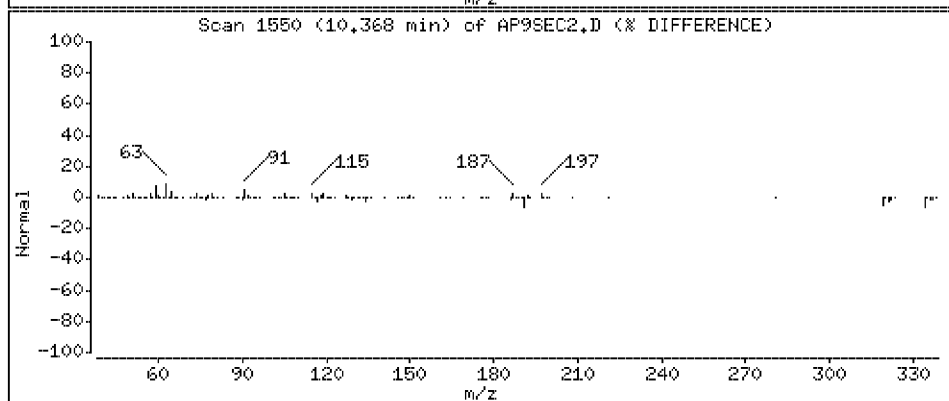
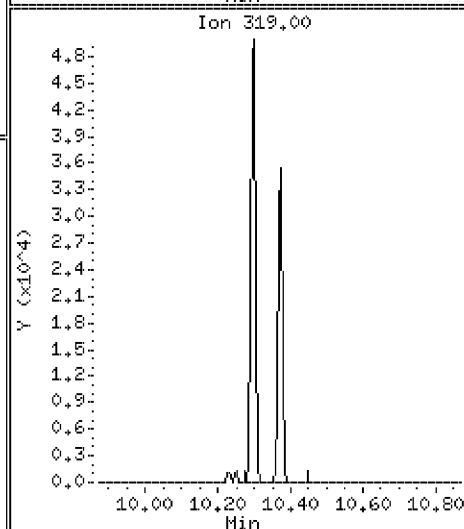
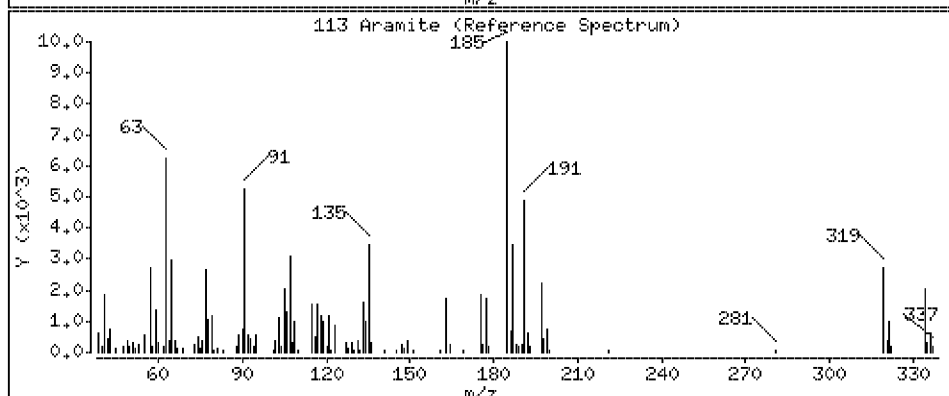
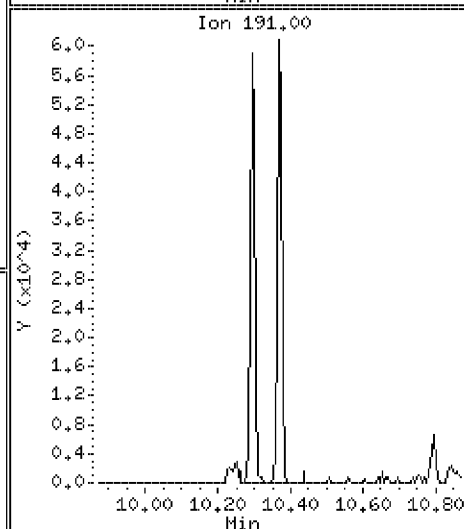
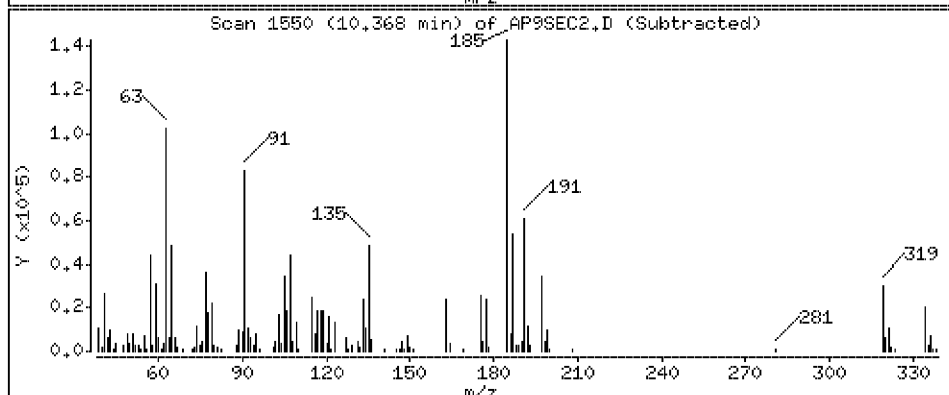
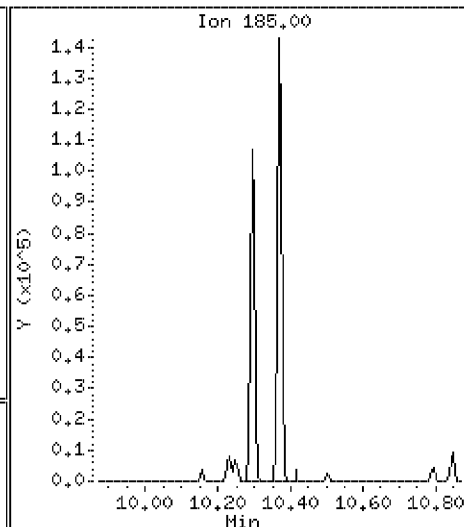
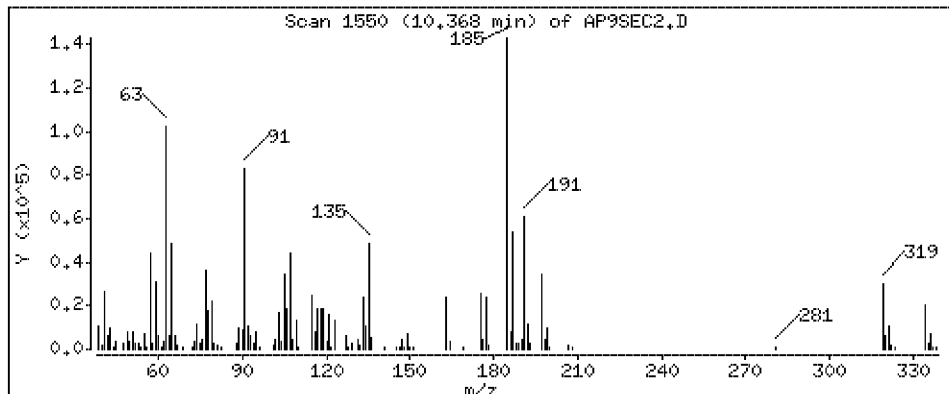
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

113 Aramite

Concentration: 43.5 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

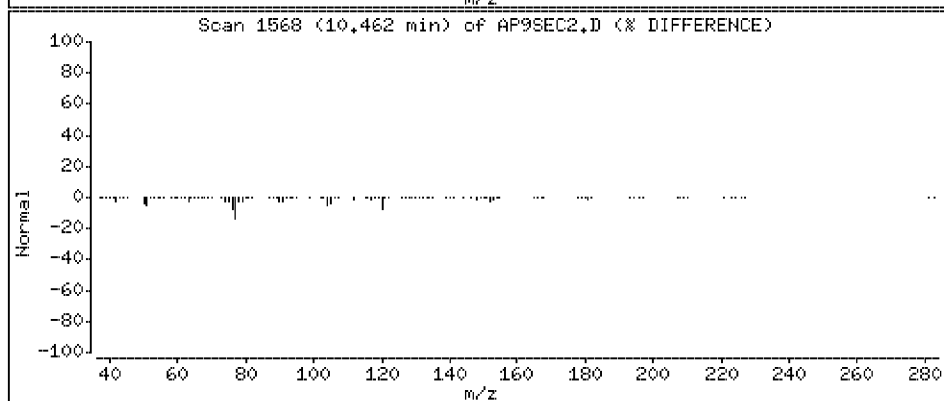
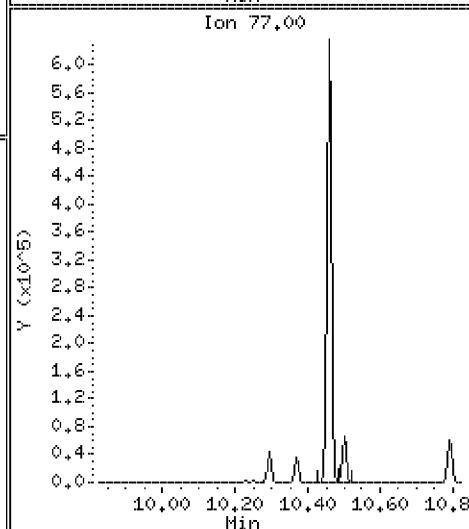
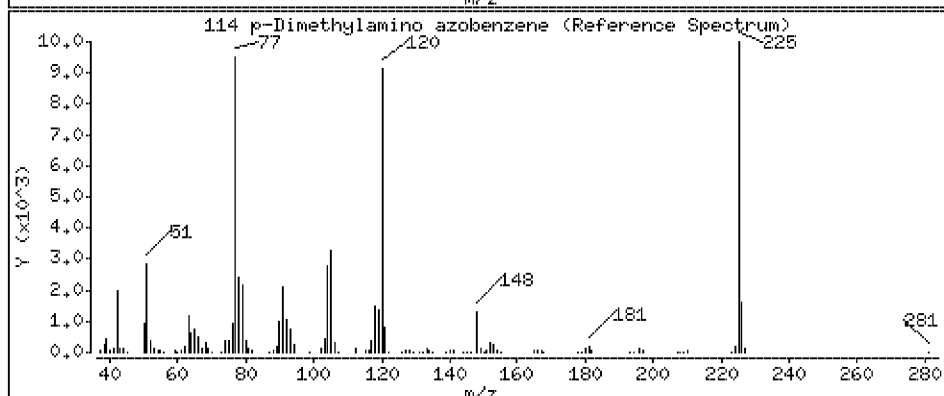
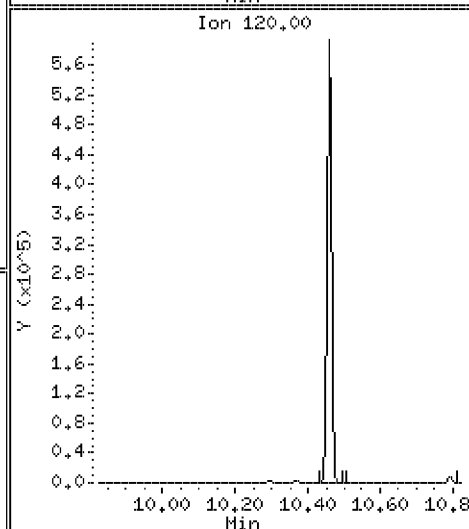
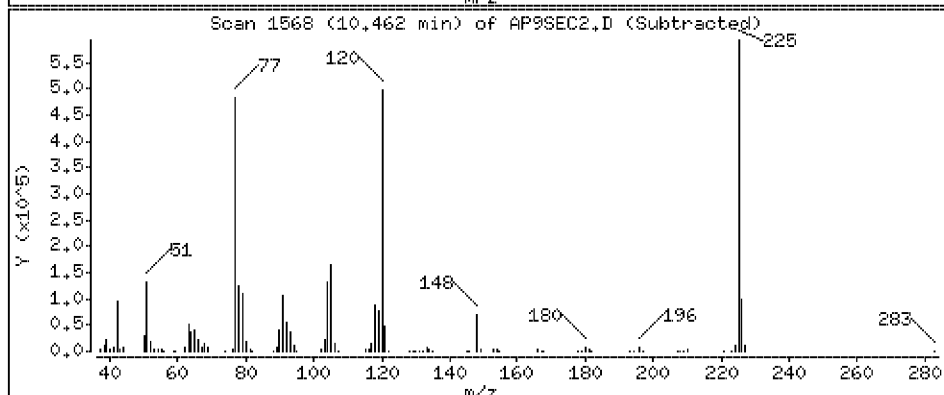
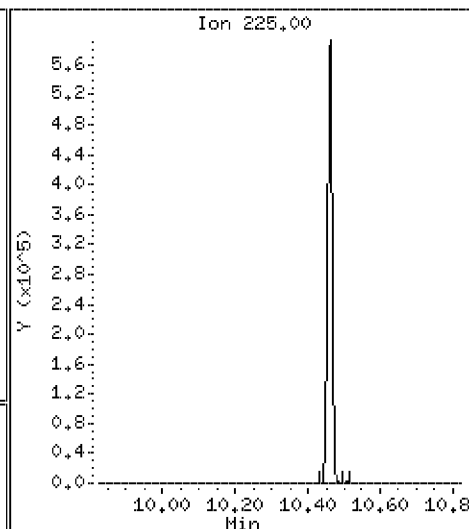
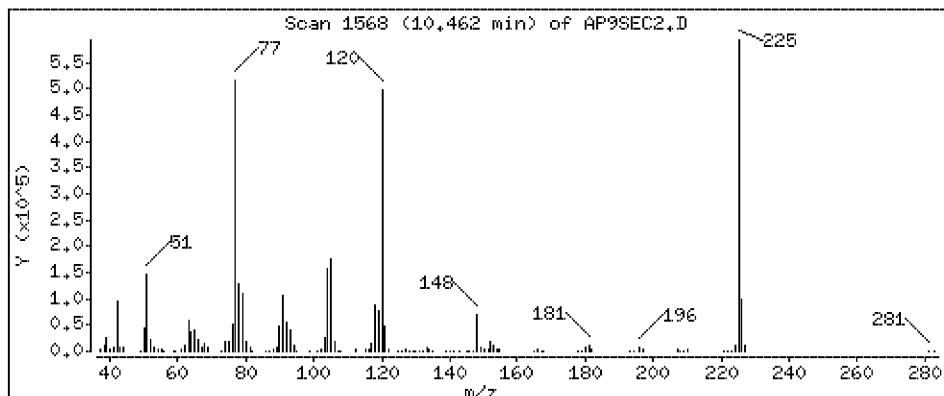
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

114 p-Dimethylamino azobenzene

Concentration: 45.3 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

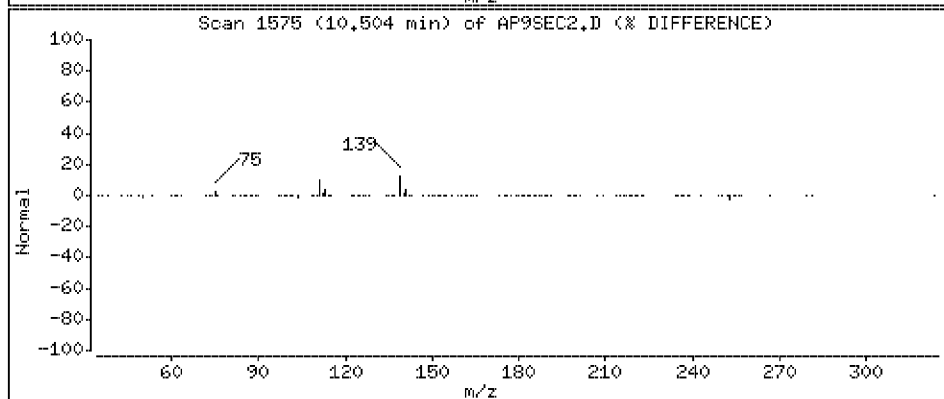
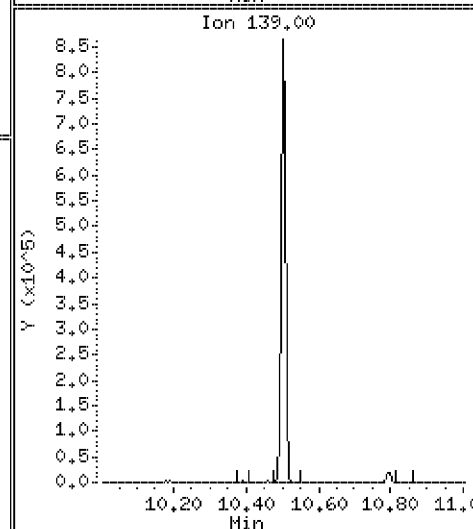
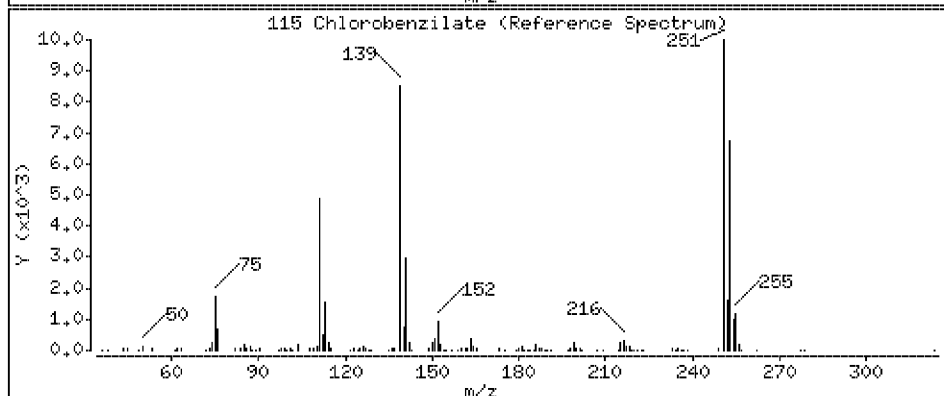
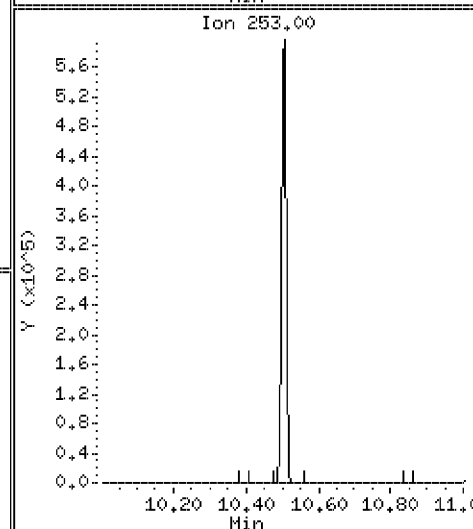
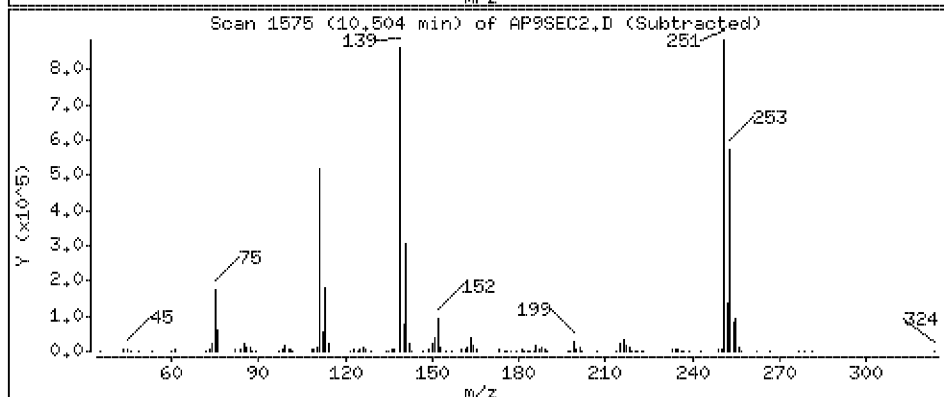
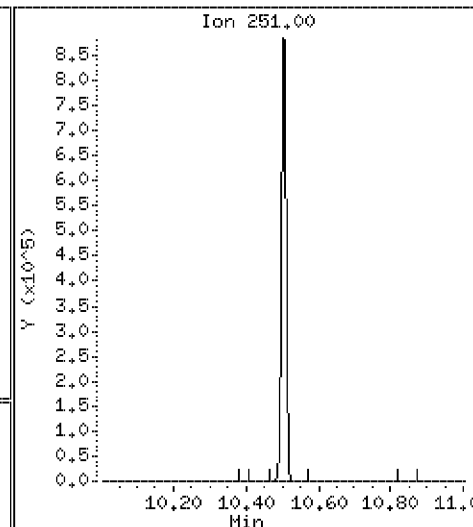
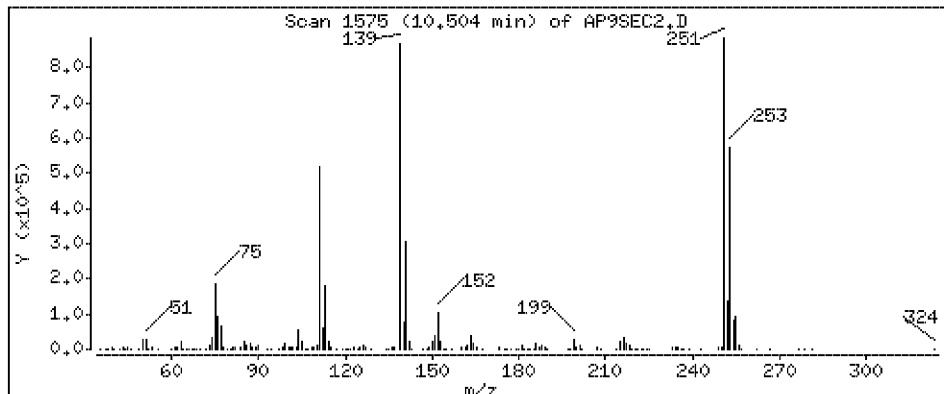
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

115 Chlorobenzilate

Concentration: 43.4 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

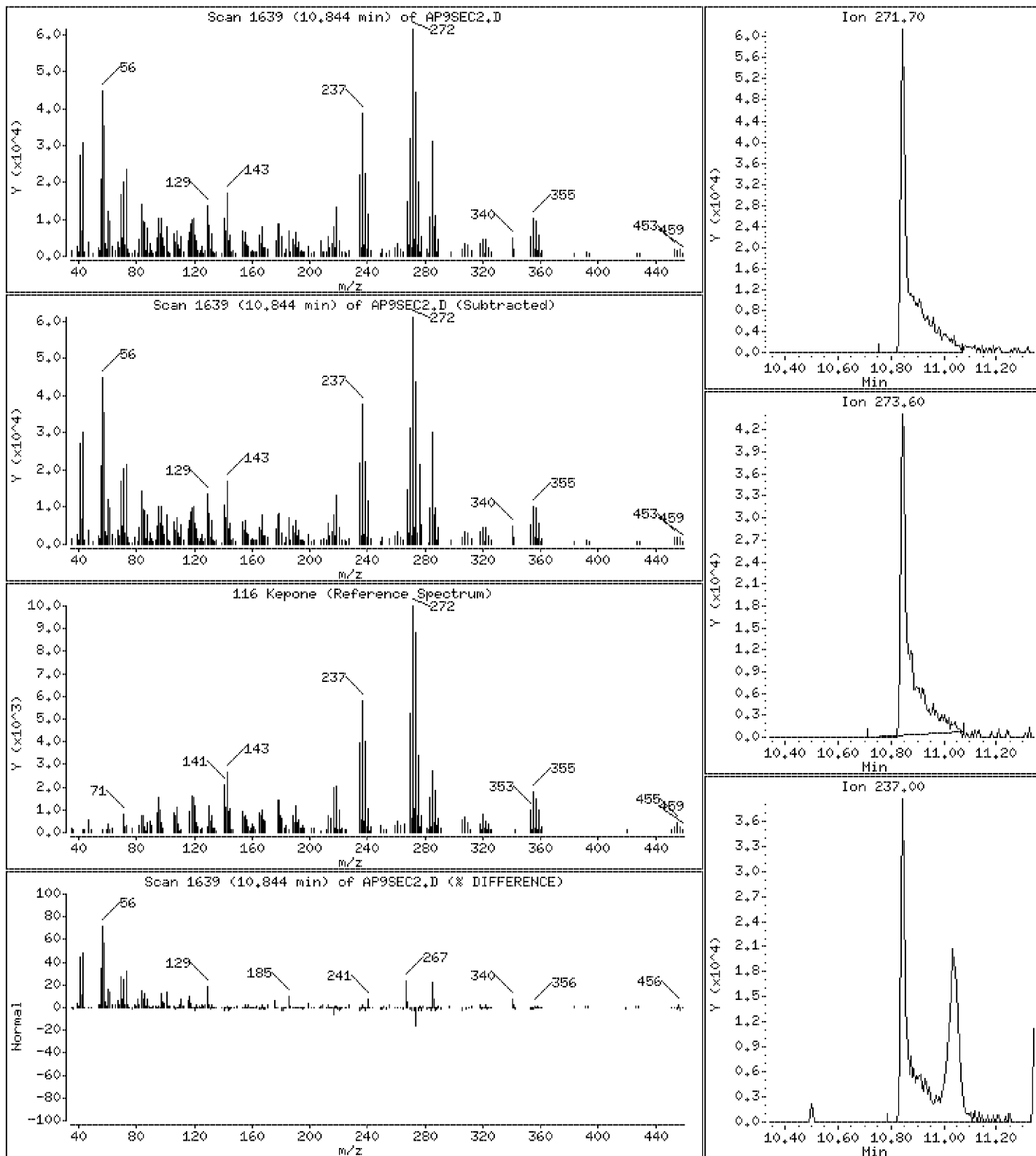
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

116 Kepone

Concentration: 44.1 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

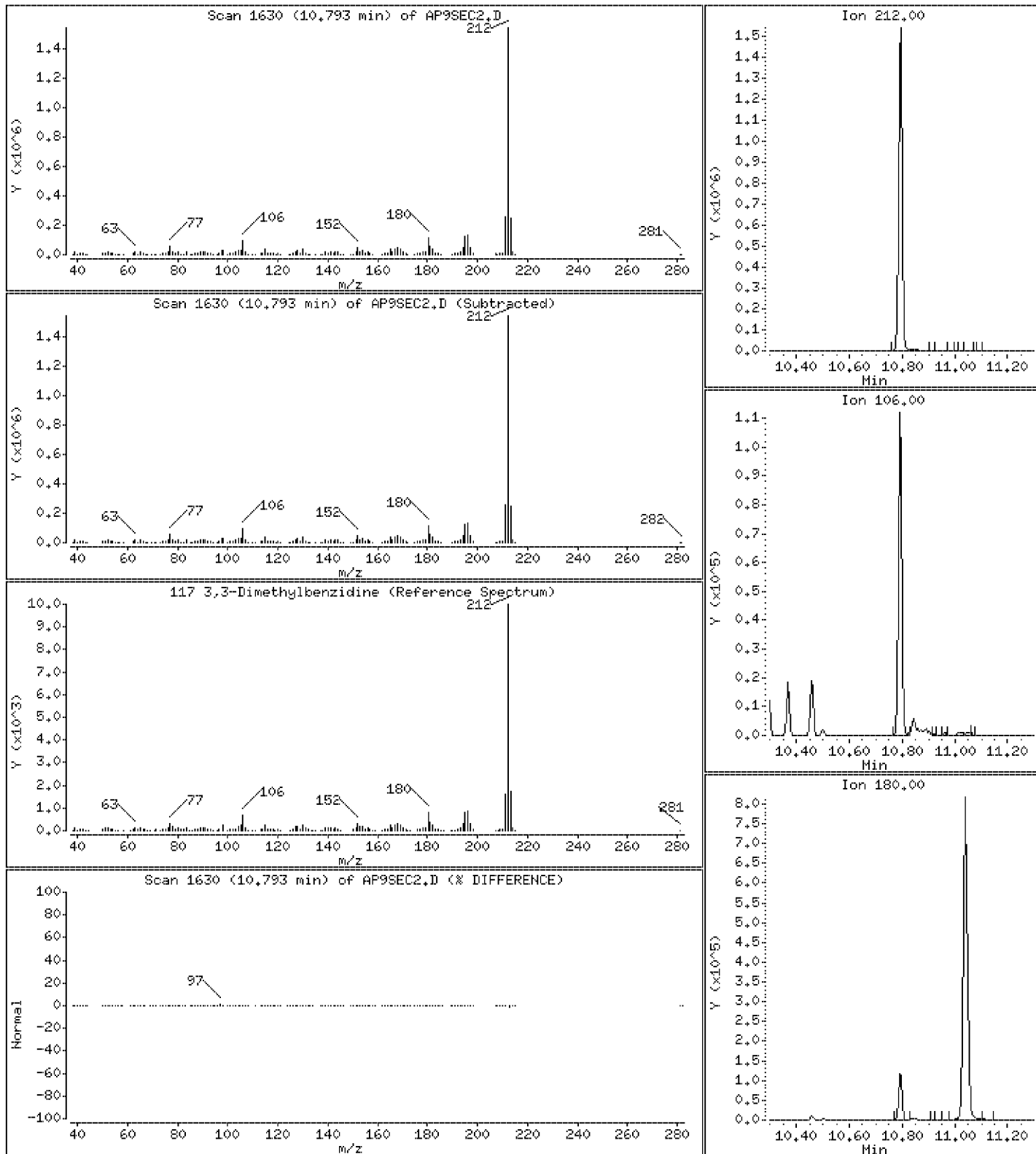
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

117 3,3-Dimethylbenzidine

Concentration: 40.0 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

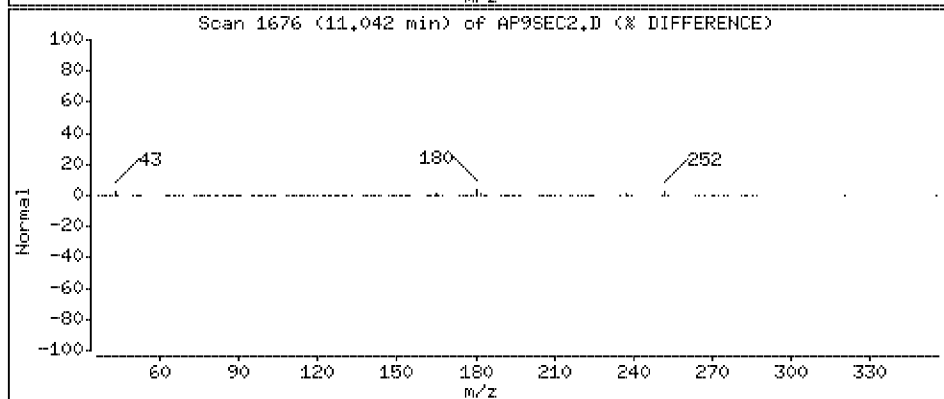
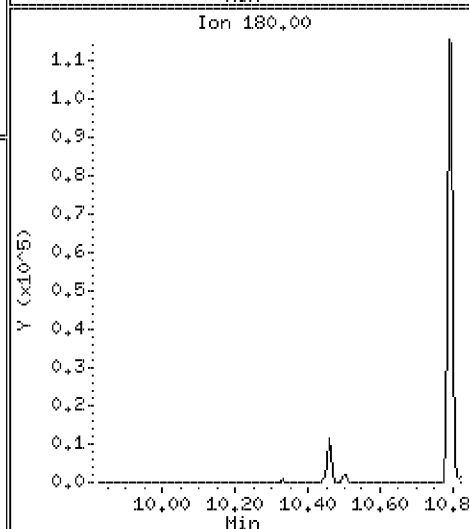
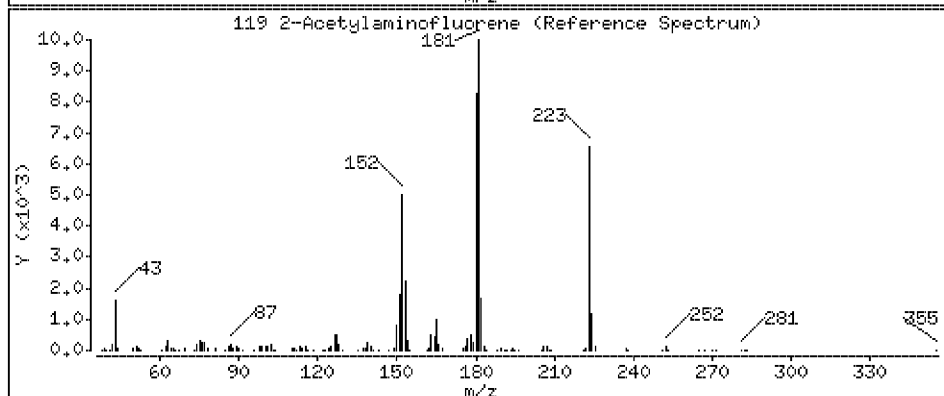
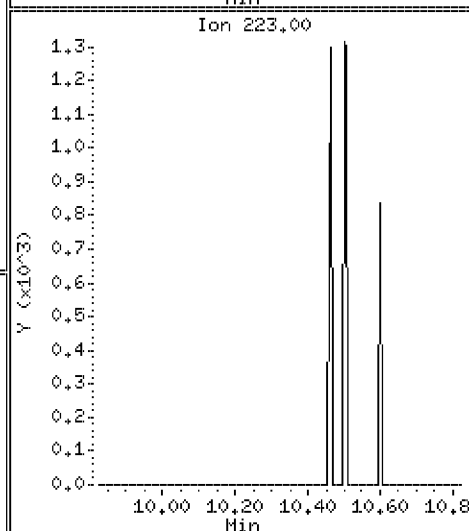
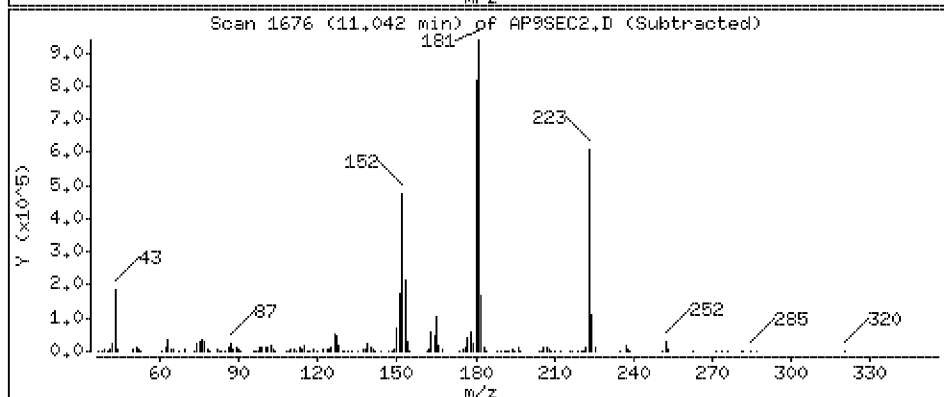
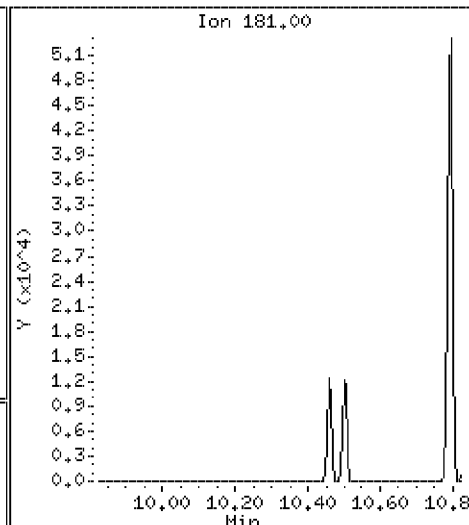
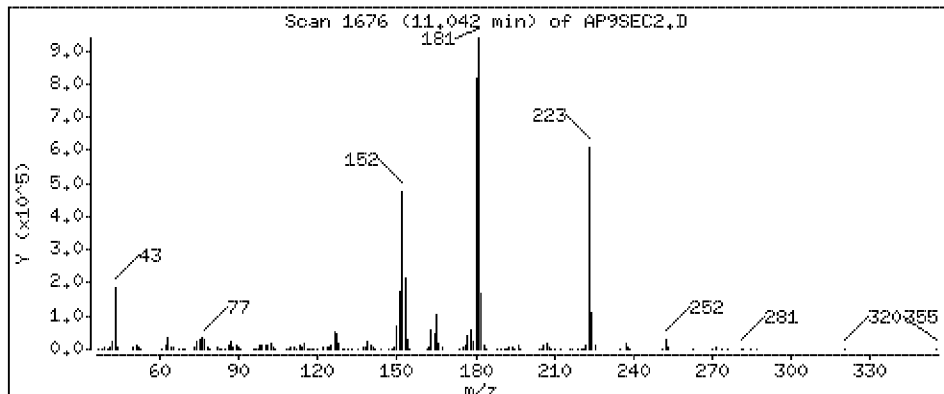
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

119 2-Acetylaminofluorene

Concentration: 43.4 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

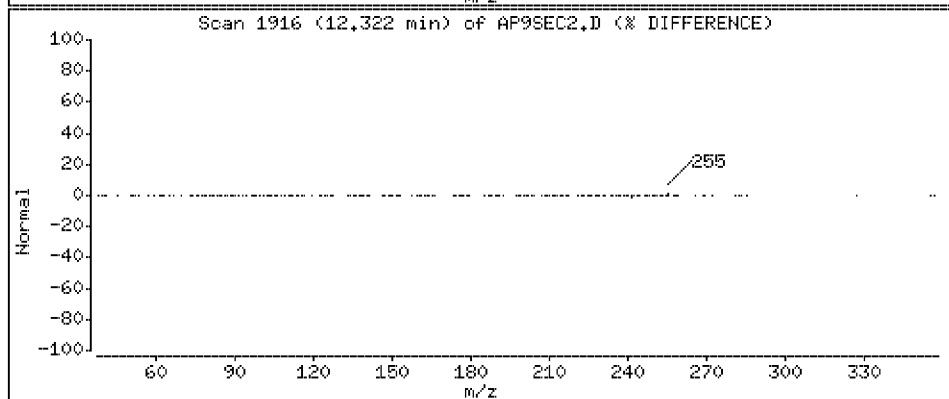
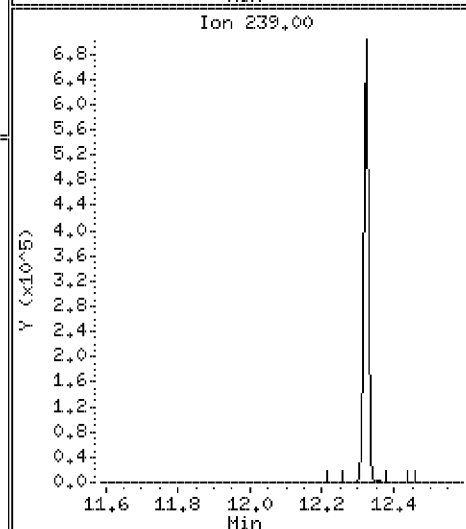
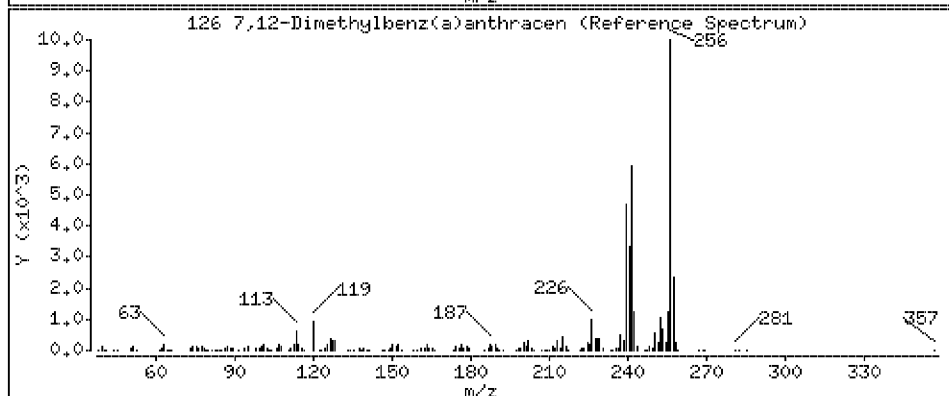
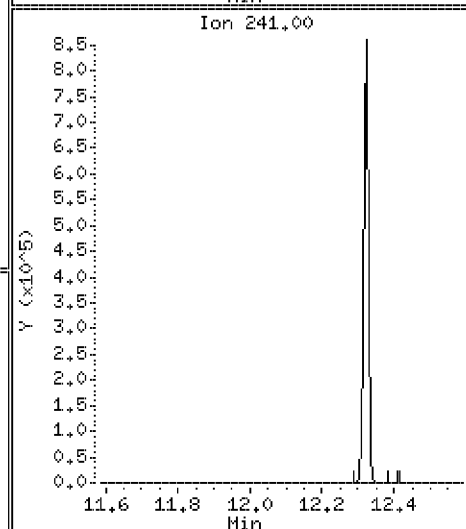
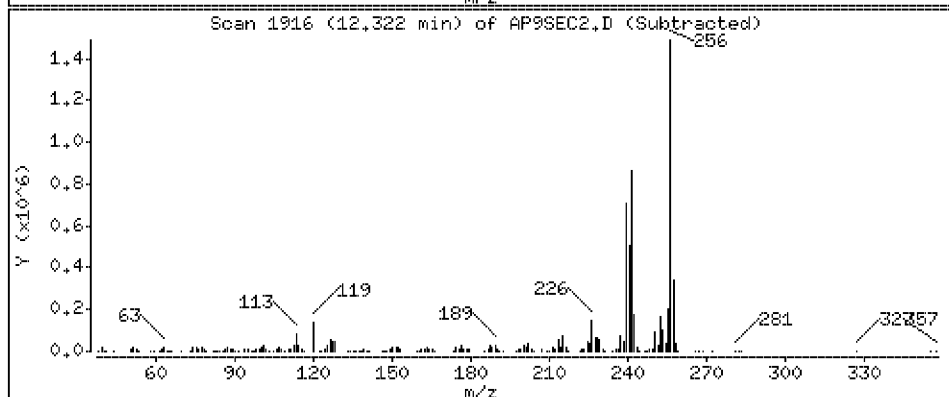
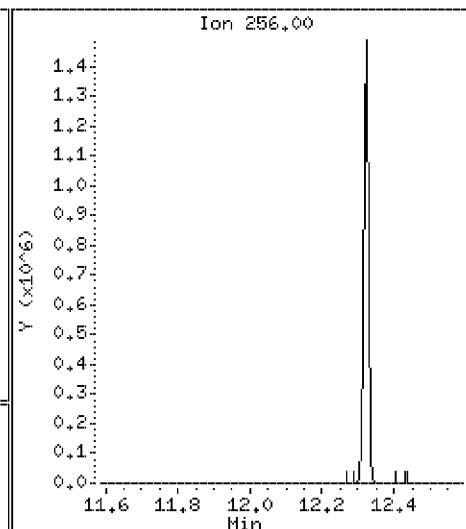
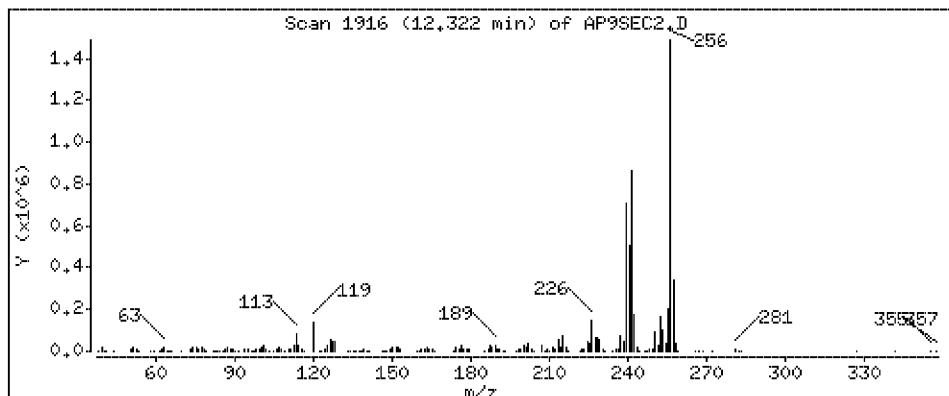
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

126 7,12-Dimethylbenz(a)anthracen

Concentration: 46.7 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

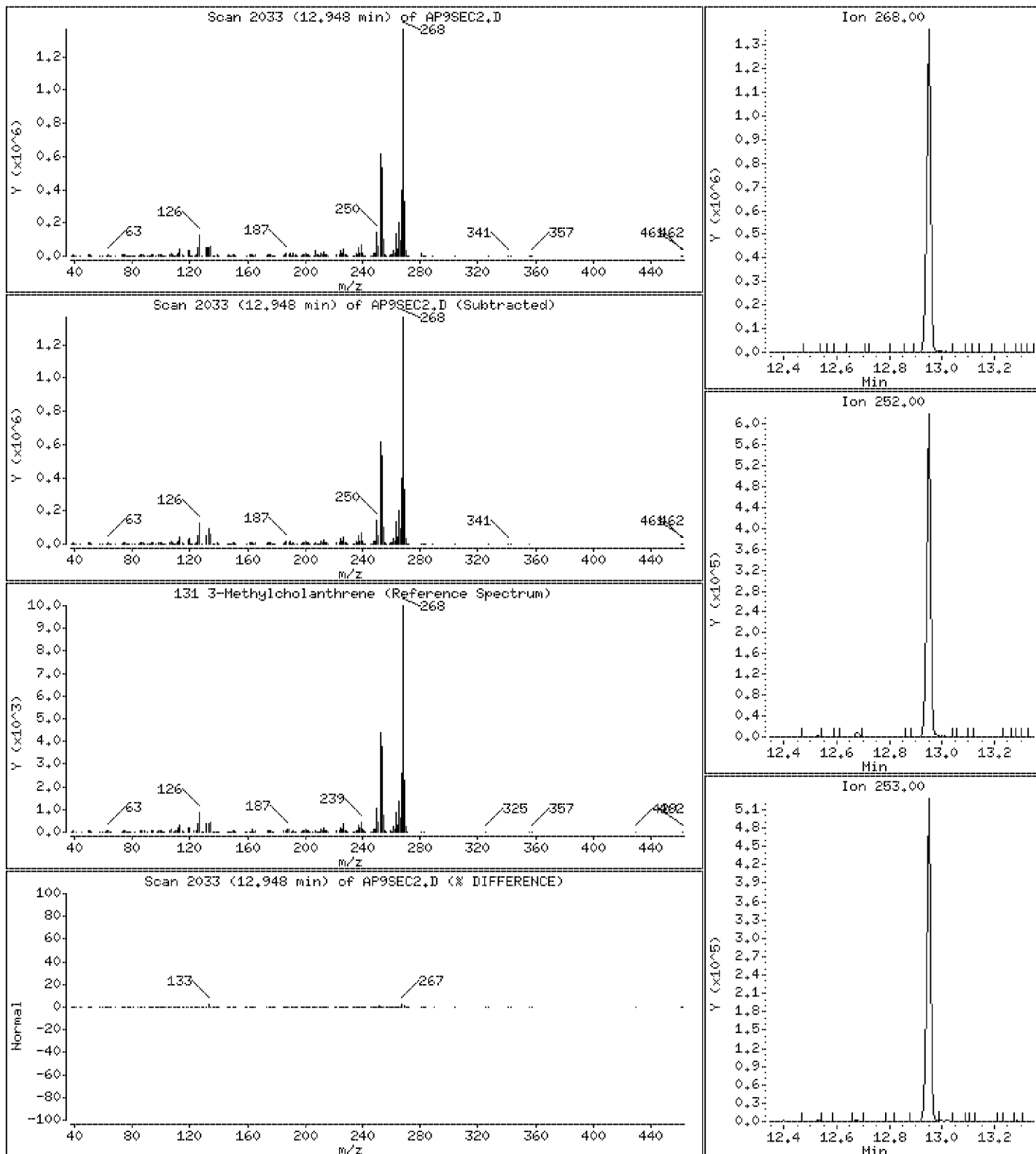
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

131 3-Methylcholanthrene

Concentration: 45.2 ug/l



Date : 23-APR-2012 20:15

Client ID: AP9SEC

Instrument: smsd03.i

Sample Info: 44612

Purge Volume: 1000.0

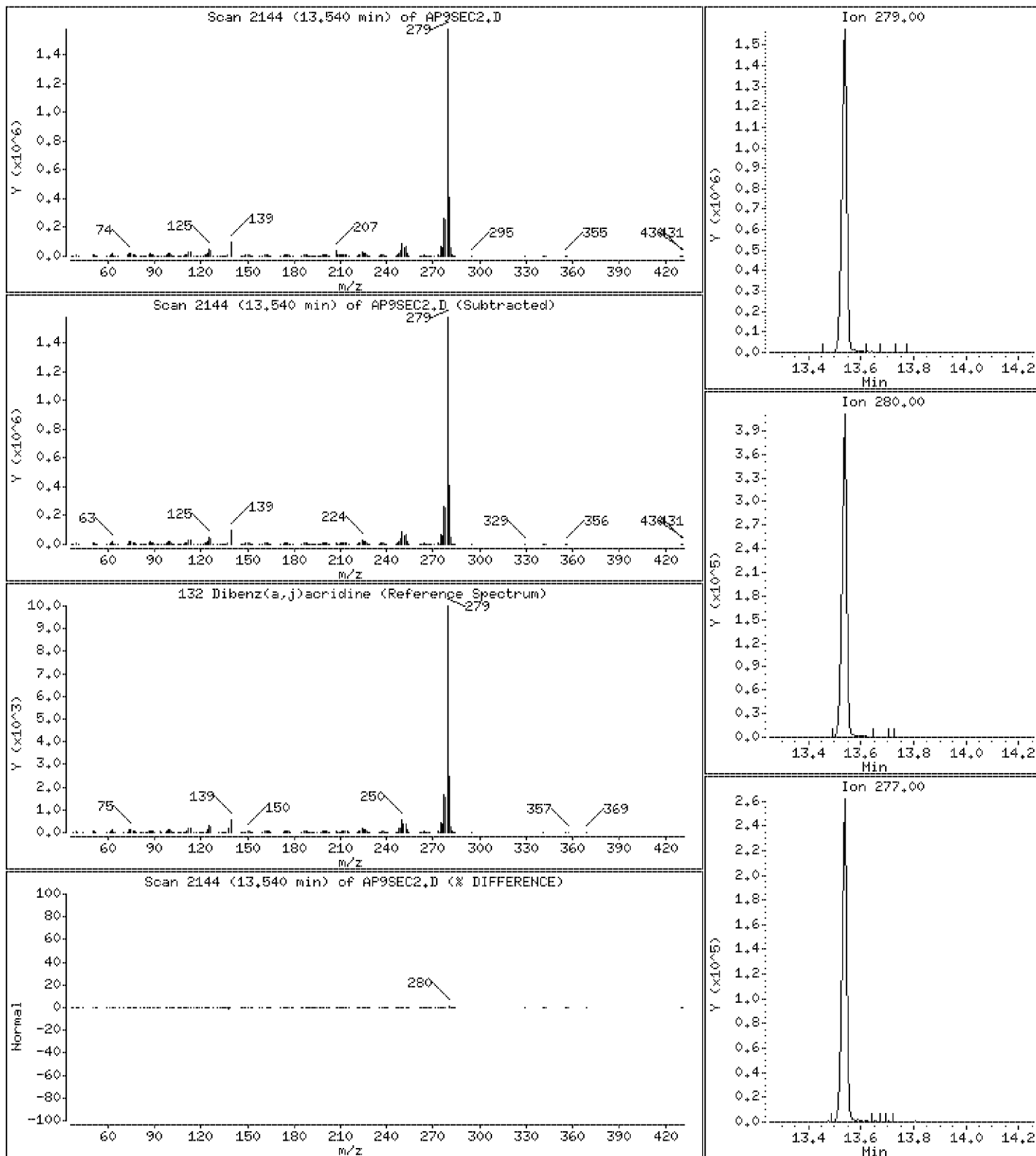
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

132 Dibenz(a,j)acridine

Concentration: 44.7 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3050312.b\DFTPP1.D
 Lab Smp Id: 45777 Client Smp ID: DFTPP1
 Inj Date : 03-MAY-2012 10:31
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 45777
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3050312.b\DoDTUN.m
 Meth Date : 30-Apr-2012 13:57 mjacobs Quant Type: ISTD
 Cal Date : 23-MAR-2009 02:58 Cal File: AP9CAL1.D
 Als bottle: 100 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: SVECD04

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS								
RT	EXP RT	REL RT	MASS	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
1 dftpp				CAS #: 5074-71-5				
7.480	7.728 (0.000)	198	380416				0.00- 100.00	100.00
7.480	7.728 (0.000)	51	110600				10.00- 80.00	29.07
7.480	7.728 (0.000)	68	3168				0.00- 2.00	1.79
7.480	7.728 (0.000)	69	177216				0.00- 0.00	46.58
7.480	7.728 (0.000)	70	1711				0.00- 2.00	0.97
7.480	7.728 (0.000)	127	167680				10.00- 80.00	44.08
7.480	7.728 (0.000)	197	2224				0.00- 2.00	0.58
7.480	7.728 (0.000)	199	27504				5.00- 9.00	7.23
7.480	7.728 (0.000)	275	126784				10.00- 60.00	33.33
7.480	7.728 (0.000)	365	25152				1.00- 0.00	6.61
7.480	7.728 (0.000)	441	48976				0.01- 24.00	13.59
7.480	7.728 (0.000)	442	360448				50.00- 0.00	94.75
7.480	7.728 (0.000)	443	80464				15.00- 24.00	22.32

Data File: \\Svecd04\DD\chem\smsd03.i\S3050312,b\DFTPP1.D

Date : 03-MAY-2012 10:31

Client ID: DFTPP1

Sample Info: 45777

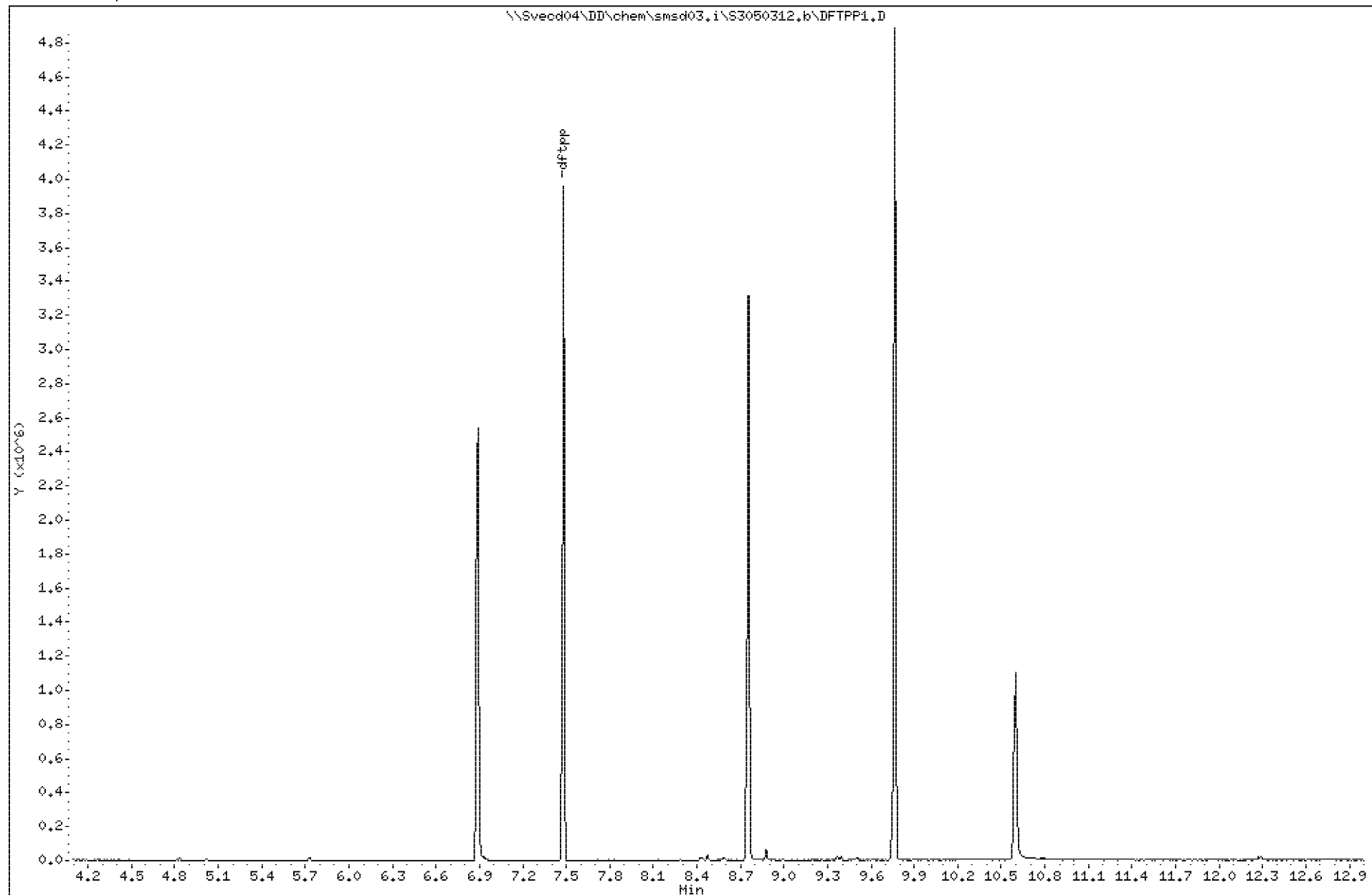
Volume Injected (uL): 1.0

Column phase:

Instrument: smsd03.i

Operator: PEL

Column diameter: 2.00



Date : 03-MAY-2012 10:31

Client ID: DFTPP1

Instrument: smsd03.i

Sample Info: 45777

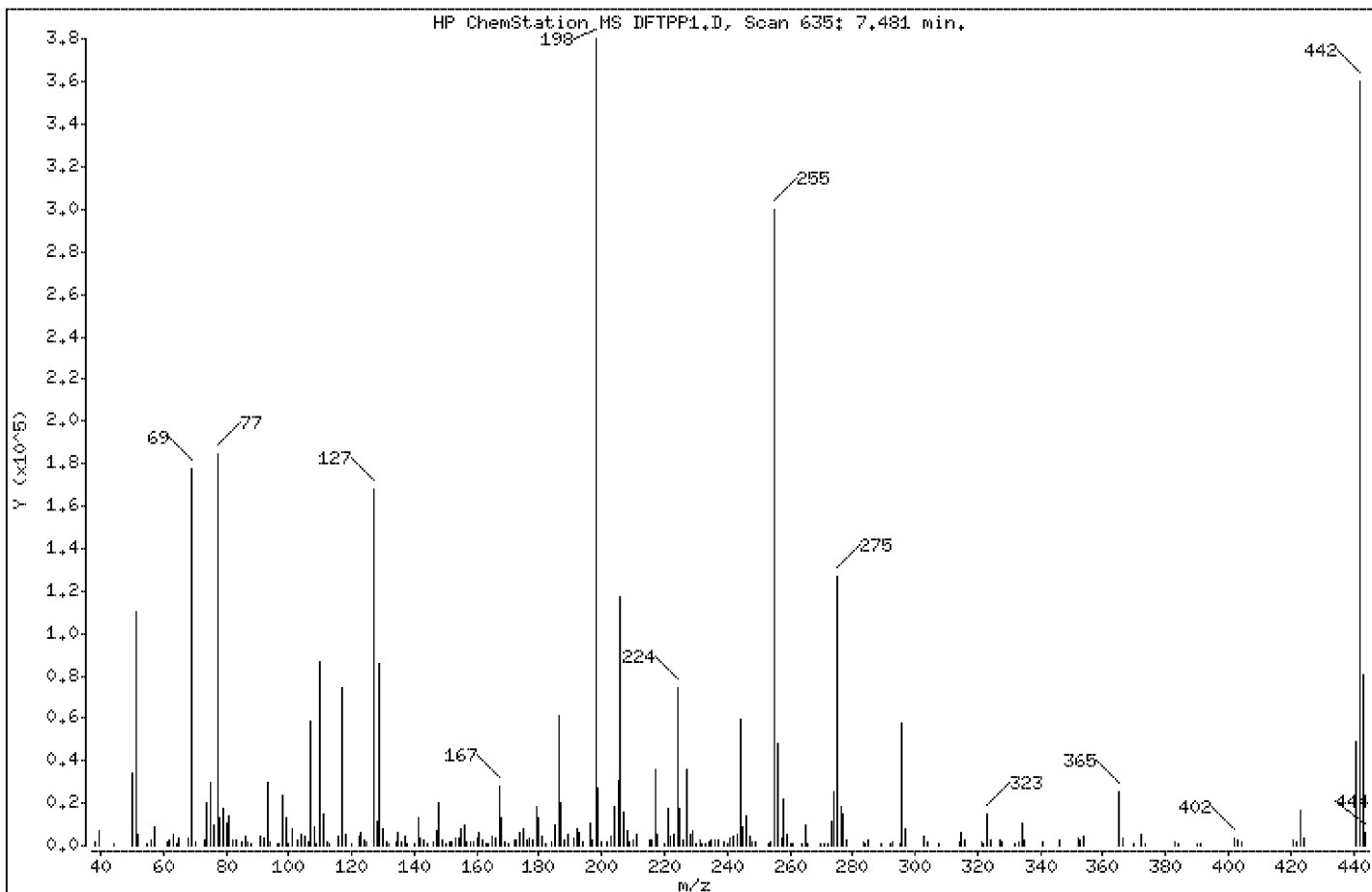
Volume Injected (uL): 1.0

Operator: PEL

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	29.07
68	Less than 2.00% of mass 69	0.83 (1.79)
69	Mass 69 relative abundance	46.58
70	Less than 2.00% of mass 69	0.45 (0.97)
127	10.00 - 80.00% of mass 198	44.08
197	Less than 2.00% of mass 198	0.58
199	5.00 - 9.00% of mass 198	7.23
275	10.00 - 60.00% of mass 198	33.33
365	Greater than 1.00% of mass 198	6.61
441	0.01 - 24.00% of mass 442	12.87 (13.59)
442	Greater than 50.00% of mass 198	94.75
443	15.00 - 24.00% of mass 442	21.15 (22.32)

Data File: \\Svecd04\DD\chem\smsd03.i\S3050312.b\DFTPP1.D

Date : 03-MAY-2012 10:31

Client ID: DFTPP1

Instrument: smsd03.i

Sample Info: 45777

Volume Injected (uL): 1.0

Operator: PEL

Column phase:

Column diameter: 2.00

Data File: DFTPP1.D

Spectrum: HP ChemStation MS DFTPP1.D, Scan 635: 7.481 min.

Location of Maximum: 197.90

Number of points: 242

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	1852	127.00	167680	194.00	1596	269.90	996
39.10	6831	128.00	11461	196.00	10718	270.80	779
44.00	830	129.00	86048	196.90	2224	272.10	752
50.00	33784	130.00	7767	197.90	380416	273.00	11774
51.00	110600	131.00	1380	198.90	27504	274.00	25104
52.10	5213	131.90	1103	200.00	1937	275.00	126784
55.00	752	133.90	2089	201.40	1797	276.00	18520
56.00	2904	135.00	6177	203.00	4688	277.00	15304
57.00	8462	136.00	1601	204.00	18208	277.90	2541
61.00	1774	136.90	4581	205.00	30296	283.10	1569
62.00	2683	137.90	689	206.00	117208	283.90	754
63.00	5402	139.90	792	207.00	15458	285.00	2799
64.00	878	141.00	12872	208.00	6626	289.00	682
65.00	3142	142.00	3450	208.90	1782	292.10	885
68.00	3168	142.90	3058	210.00	2434	292.90	2058
69.00	177216	143.90	968	211.00	4810	294.90	718
70.00	1711	145.90	1772	215.00	2518	295.90	57792
72.90	2689	147.00	6650	215.90	2353	297.00	7746
74.00	20368	147.90	20008	216.90	35816	303.00	4623
75.00	30120	149.00	2463	217.90	4904	303.90	1319
76.00	9979	149.90	1059	219.90	1022	307.90	813
77.00	184128	151.10	1833	220.90	17232	314.00	1375
78.00	12807	152.00	1518	222.00	3966	314.90	6489
79.00	17240	152.90	3699	223.00	5449	316.00	2969
80.00	10207	154.00	3725	224.00	74392	321.00	1490
81.00	14232	155.00	7786	225.00	17424	322.00	1102
82.00	3011	156.00	9208	226.00	2639	323.00	15301
82.90	2931	156.90	1847	226.90	35704	324.00	3032
84.90	2162	157.90	1637	228.00	5373	326.90	2875
85.90	4520	158.90	1801	229.00	6967	328.00	2004
87.00	1787	160.00	3458	230.00	854	331.90	1142
88.10	848	161.00	6496	231.00	2979	332.90	1826
91.00	4318	162.00	2203	232.00	1034	334.00	10084
92.00	3324	163.00	815	233.00	700	335.00	2975
93.00	29560	164.00	679	233.90	1428	340.90	1398

Data File: \\Svecd04\DD\chem\smsd03.i\S3050312.b\DFTPP1.D

Date : 03-MAY-2012 10:31

Client ID: DFTPP1

Instrument: smsd03.i

Sample Info: 45777

Volume Injected (uL): 1.0

Operator: PEL

Column phase:

Column diameter: 2.00

Data File: DFTPP1.D

Spectrum: HP ChemStation MS DFTPP1.D, Scan 635: 7.481 min.

Location of Maximum: 197.90

Number of points: 242

m/z	Y	m/z	Y	m/z	Y	m/z	Y
94.00	1382	165.00	4314	235.00	2261	345.90	2670
96.00	776	166.00	3452	236.00	2396	352.00	3456
96.80	701	167.00	27616	237.00	2709	352.90	2705
98.00	23280	167.90	12872	238.90	2173	354.00	3948
99.00	13502	168.90	1374	239.90	1100	364.90	25152
99.90	711	170.00	992	240.90	3246	366.00	3413
101.00	7554	171.90	2675	242.00	4416	370.00	805
103.00	2972	172.90	2874	243.10	5206	372.00	5463
103.90	4934	173.90	5940	244.00	59512	373.20	1064
105.00	4201	175.00	7716	245.00	9019	383.00	1727
106.10	1375	176.00	2437	245.90	13833	383.90	681
107.00	58840	177.00	3817	247.00	3992	390.00	1123
108.00	8973	178.00	2254	248.00	1341	391.00	834
108.80	1177	179.00	18568	249.00	1889	401.90	3842
110.00	86600	180.00	13311	253.00	1189	402.90	2775
111.00	14684	181.00	4746	254.00	1458	403.90	1470
112.00	1809	182.00	901	255.00	300288	421.00	2711
113.00	804	184.00	1629	256.00	48312	421.90	1928
116.00	4380	185.00	9364	257.00	3226	423.00	17000
117.00	74152	186.00	61328	258.00	22048	424.00	3128
117.90	5016	187.00	19824	259.00	5679	441.00	48976
119.90	796	188.20	2222	260.00	1209	442.00	360448
122.00	4716	189.00	5375	260.90	776	443.00	80464
123.00	6147	191.00	3200	264.00	1011	444.00	6129
123.90	2389	192.00	7792	264.90	9360		
124.90	1834	193.00	6418	265.80	824		

DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 05/03/2012 10:52

Datafile Analyzed: \\Svecd04\DD\chem\smsd03.i\S3050312.b\DFTPP1.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 05/04/2012 18:22

Datafile Analyzed: //Svecd04/DD/chem/smsd03.i/S3050312.b/DFTPP1.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 05/07/2012 17:36

Datafile Analyzed: //Svecd04/DD/chem/smsd03.i/S3050312.b/DFTPP1.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 05/07/2012 17:45

Datafile Analyzed: //Svecd04/DD/chem/smsd03.i/S3050312.b/DFTPP1.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 05/07/2012 18:06

Datafile Analyzed: //Svecd04/DD/chem/smsd03.i/S3050312.b/DFTPP1.D

PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3050312.b\BSCCV1.D
 Lab Smp Id: 45936 Client Smp ID: BSCCV1
 Inj Date : 03-MAY-2012 11:15 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 45936
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3050312.b\8270bcs.m
 Meth Date : 03-May-2012 14:03 smsd03.i Quant Type: ISTD
 Cal Date : 23-APR-2012 18:17 Cal File: AP9CAL4.D
 Als bottle: 2 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: BZSOWcal.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
9 Benzaldehyde CAS #: 100-52-7									
3.995	3.995 (0.915)		77	379013	45.0000	48.5	80.00- 120.00	100.00(Q)	
3.995	3.995 (0.915)		106	282203			44.46- 104.46	74.46	
3.995	3.995 (0.915)		51	129713			4.22- 64.22	34.22	
* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.366	4.367 (1.000)		152	256212	40.0000		80.00- 120.00	100.00	
4.365	4.367 (1.000)		115	161334			32.88- 92.88	62.97	
4.366	4.367 (1.000)		150	388252			139.40- 199.40	151.54	
25 Acetophenone CAS #: 98-86-2									
4.720	4.723 (0.854)		105	595186	45.0000	48.8	80.00- 120.00	100.00(Q)	
4.719	4.723 (0.854)		77	602587			68.72- 128.72	101.24	
4.719	4.722 (0.854)		51	149921			0.00- 55.37	25.19	
* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.527	5.530 (1.000)		136	810351	40.0000		80.00- 120.00	100.00	
5.526	5.529 (1.000)		68	46190			0.00- 35.11	5.70	
50 Caprolactam CAS #: 105-60-2									
5.923	5.923 (1.072)		55	109091	45.0000	46.7	80.00- 120.00	100.00(Q)	
5.924	5.924 (1.072)		113	107478			68.52- 128.52	98.52	

AMOUNTS										
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO		
=====	=====	=====	=====	=====	=====	=====	=====	=====		
50 Caprolactam (continued)										
5.924	5.924	(1.072)	85	85055			47.97-	107.97	77.97	

61 1,1-Biphenyl										
						CAS #: 92-52-4				
6.660	6.660	(0.922)	154	1058920	45.0000	46.4	80.00-	120.00	100.00(Q)	
6.659	6.659	(0.922)	76	134752			0.00-	42.73	12.73	
6.659	6.659	(0.922)	51	67643			0.00-	36.39	6.39	

* 70 Acenaphthene-d10										
						CAS #: 15067-26-2				
7.223	7.225	(1.000)	164	573142	40.0000		80.00-	120.00	100.00	
7.223	7.225	(1.000)	162	538688			65.82-	125.82	93.99	
7.223	7.225	(1.000)	160	245999			14.18-	74.18	42.92	

95 Atrazine										
						CAS #: 1912-24-9				
8.403	8.403	(0.968)	200	356602	45.0000	48.9	80.00-	120.00	100.00	
8.401	8.401	(0.968)	58	76440			0.00-	51.44	21.44	
8.403	8.403	(0.968)	215	186180			22.21-	82.21	52.21	

* 100 Phenanthrene-d10										
						CAS #: 1517-22-2				
8.677	8.679	(1.000)	188	1089065	40.0000		80.00-	120.00	100.00	
8.676	8.678	(1.000)	94	66076			0.00-	35.53	6.07	
8.676	8.678	(1.000)	80	77452			0.00-	37.34	7.11	

110 Benzidine										
						CAS #: 92-87-5				
10.005	10.005	(0.888)	184	1079879	45.0000	48.6	80.00-	120.00	100.00(Q)	
10.004	10.004	(0.887)	92	49440			0.00-	34.58	4.58	
10.005	10.005	(0.887)	185	154583			0.00-	44.31	14.31	

122 3,3'-Dichlorobenzidine										
						CAS #: 91-94-1				
11.241	11.241	(0.997)	252	817801	45.0000	48.9	80.00-	120.00	100.00	
11.241	11.241	(0.997)	254	528149			34.58-	94.58	64.58	
11.240	11.240	(0.997)	126	55990			0.00-	36.85	6.85	

* 121 Chrysene-d12										
						CAS #: 1719-03-5				
11.273	11.278	(1.000)	240	1445184	40.0000		80.00-	120.00	100.00	
11.272	11.276	(1.000)	120	72959			0.00-	35.66	5.05	
11.273	11.278	(1.000)	236	390393			0.00-	56.55	27.01	

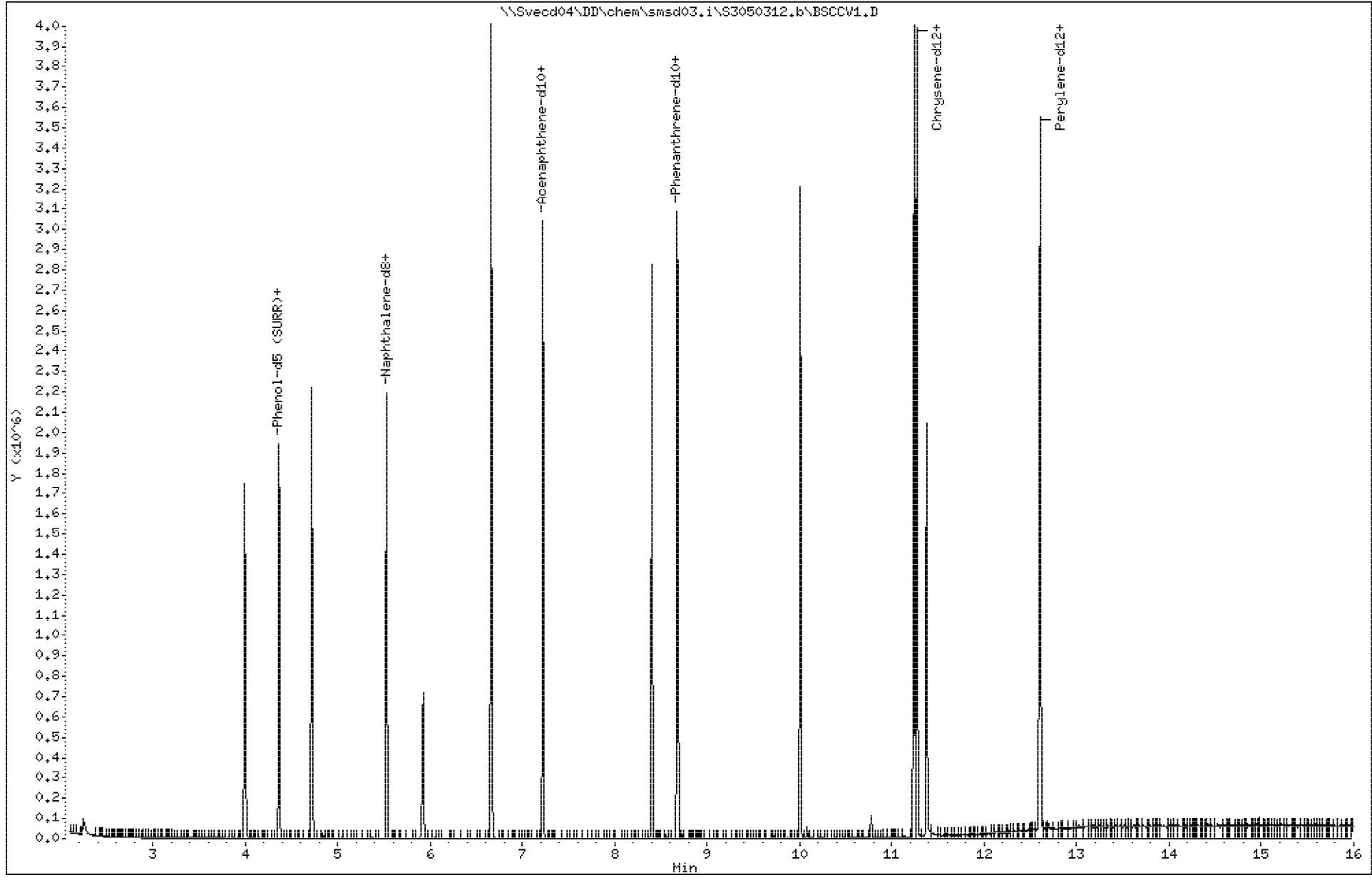
* 130 Perylene-d12										
						CAS #: 1520-96-3				
12.603	12.603	(1.000)	264	1520735	40.0000		80.00-	120.00	100.00	
12.603	12.603	(1.000)	260	373190			0.00-	54.38	24.54	
12.603	12.603	(1.000)	265	337396			0.00-	52.89	22.19	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\Svecd04\DD\chem\smsd03.i\S3050312.b\BSCCV1.D
Date : 03-MAY-2012 11:15
Client ID: BSCCV1
Sample Info: 45936
Purge Volume: 1000.0
Column phase: HPMS-5

Instrument: smsd03.i
Operator: PEL
Column diameter: 0.25



Date : 03-MAY-2012 11:15

Client ID: BSCCV1

Instrument: smsd03.i

Sample Info: 45936

Purge Volume: 1000.0

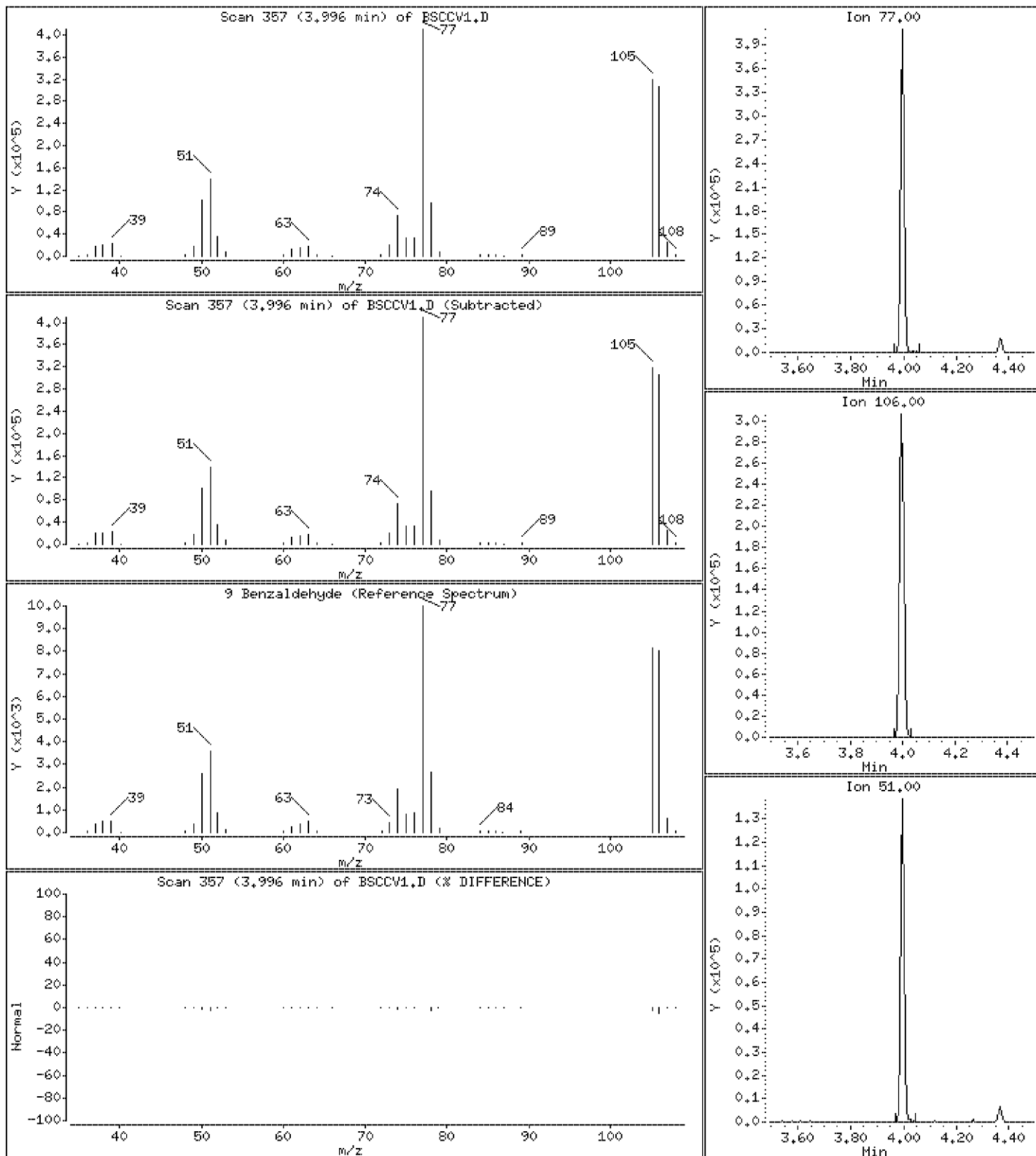
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

9 Benzaldehyde

Concentration: 48.5 ug/l



Date : 03-MAY-2012 11:15

Client ID: BSCCV1

Instrument: smsd03.i

Sample Info: 45936

Purge Volume: 1000.0

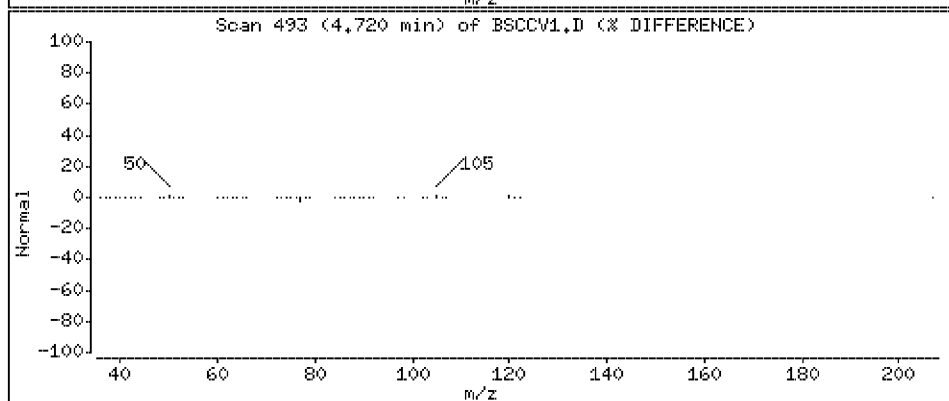
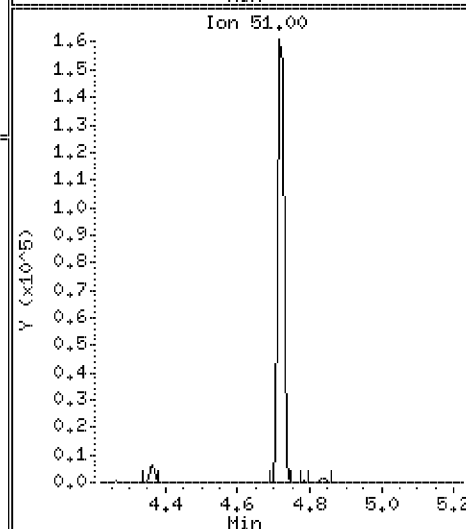
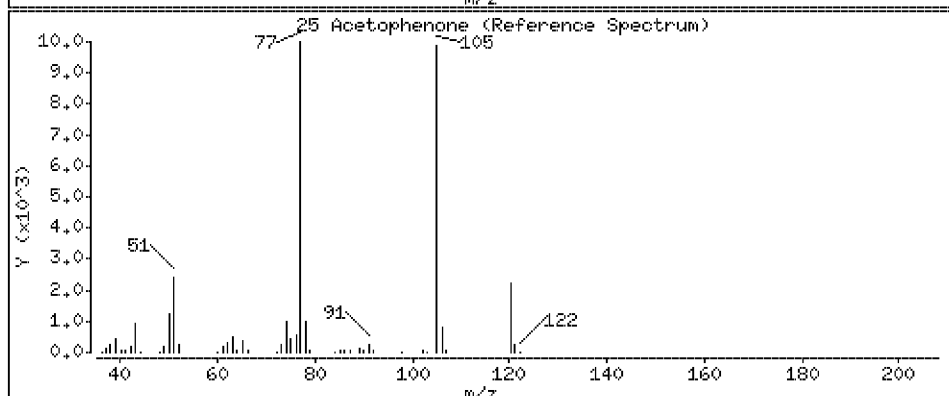
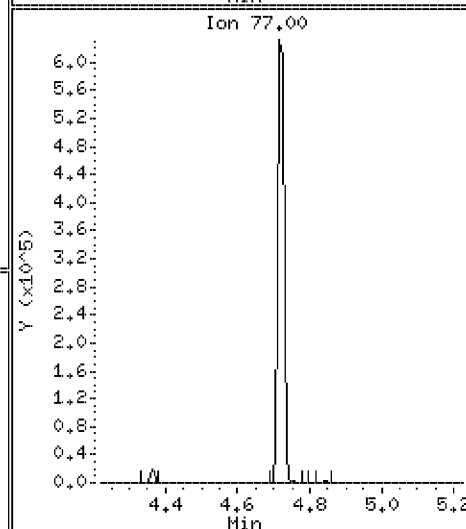
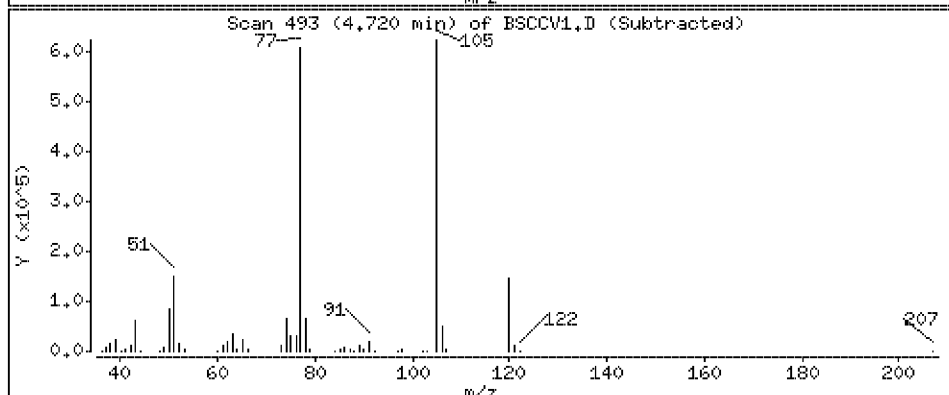
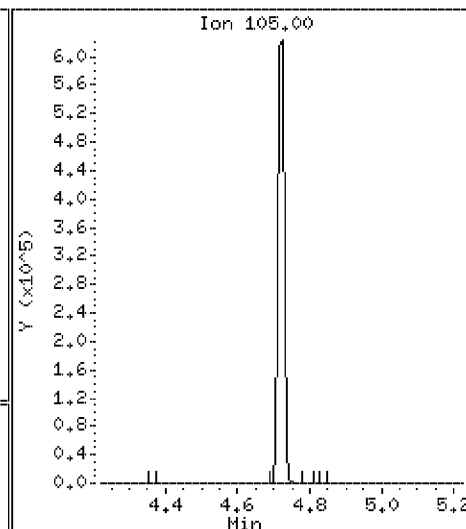
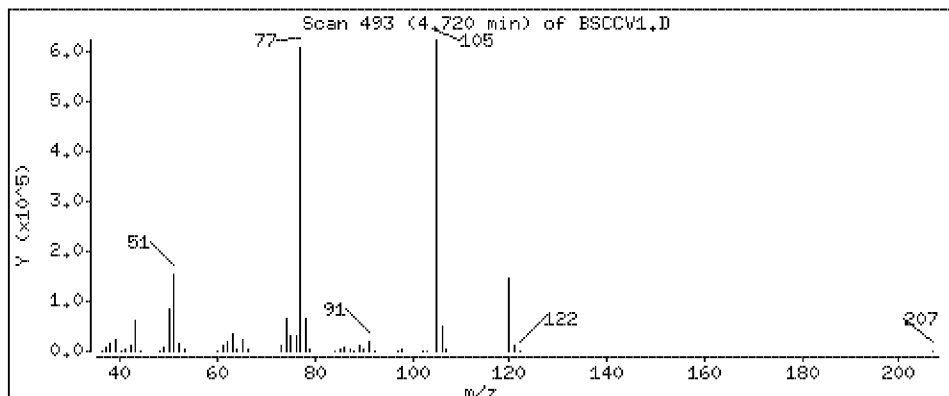
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

25 Acetophenone

Concentration: 48.8 ug/l



Date : 03-MAY-2012 11:15

Client ID: BSCCV1

Instrument: smsd03.i

Sample Info: 45936

Purge Volume: 1000.0

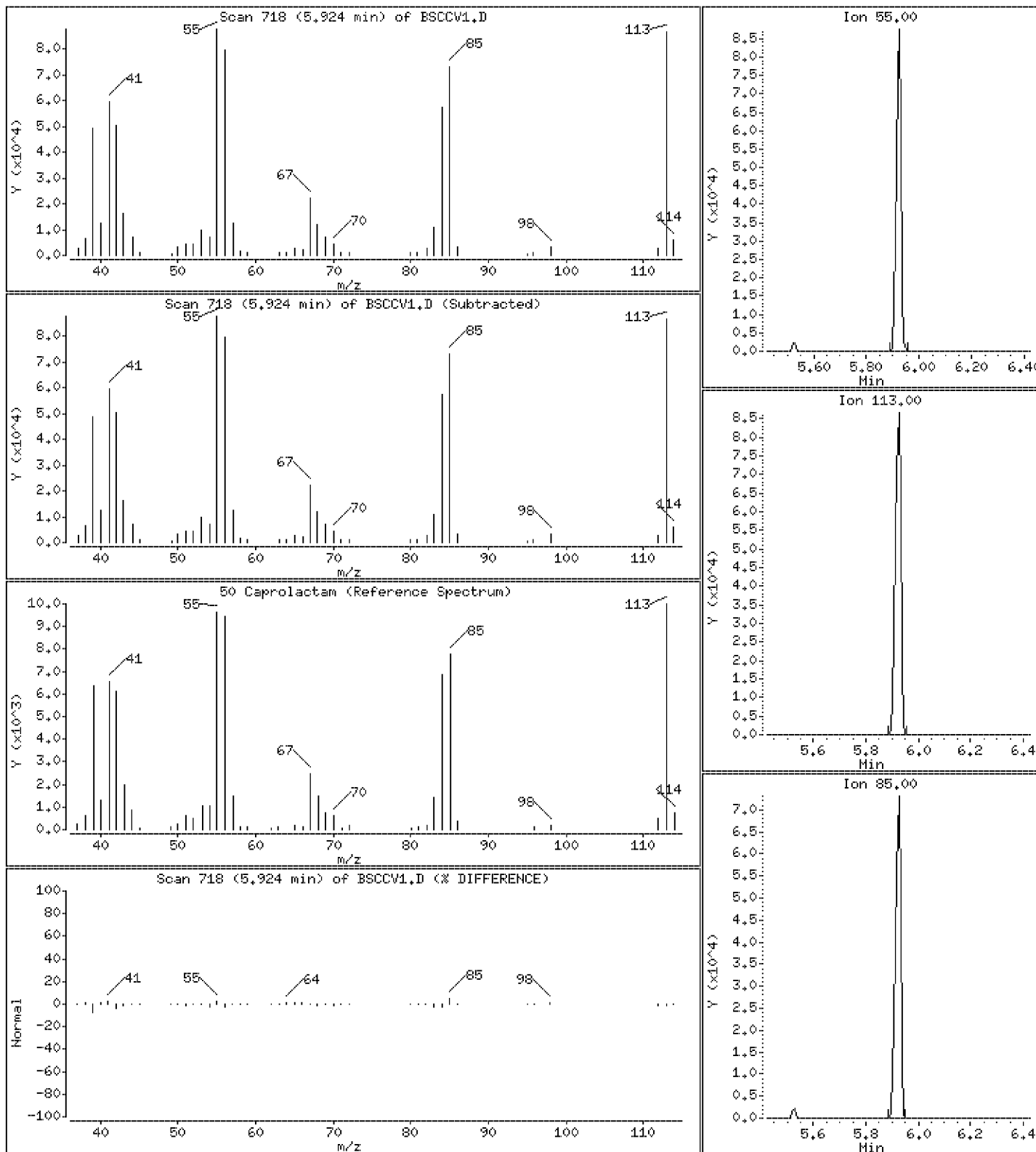
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

50 Caprolactam

Concentration: 46.7 ug/l



Date : 03-MAY-2012 11:15

Client ID: BSCCV1

Instrument: smsd03.i

Sample Info: 45936

Purge Volume: 1000.0

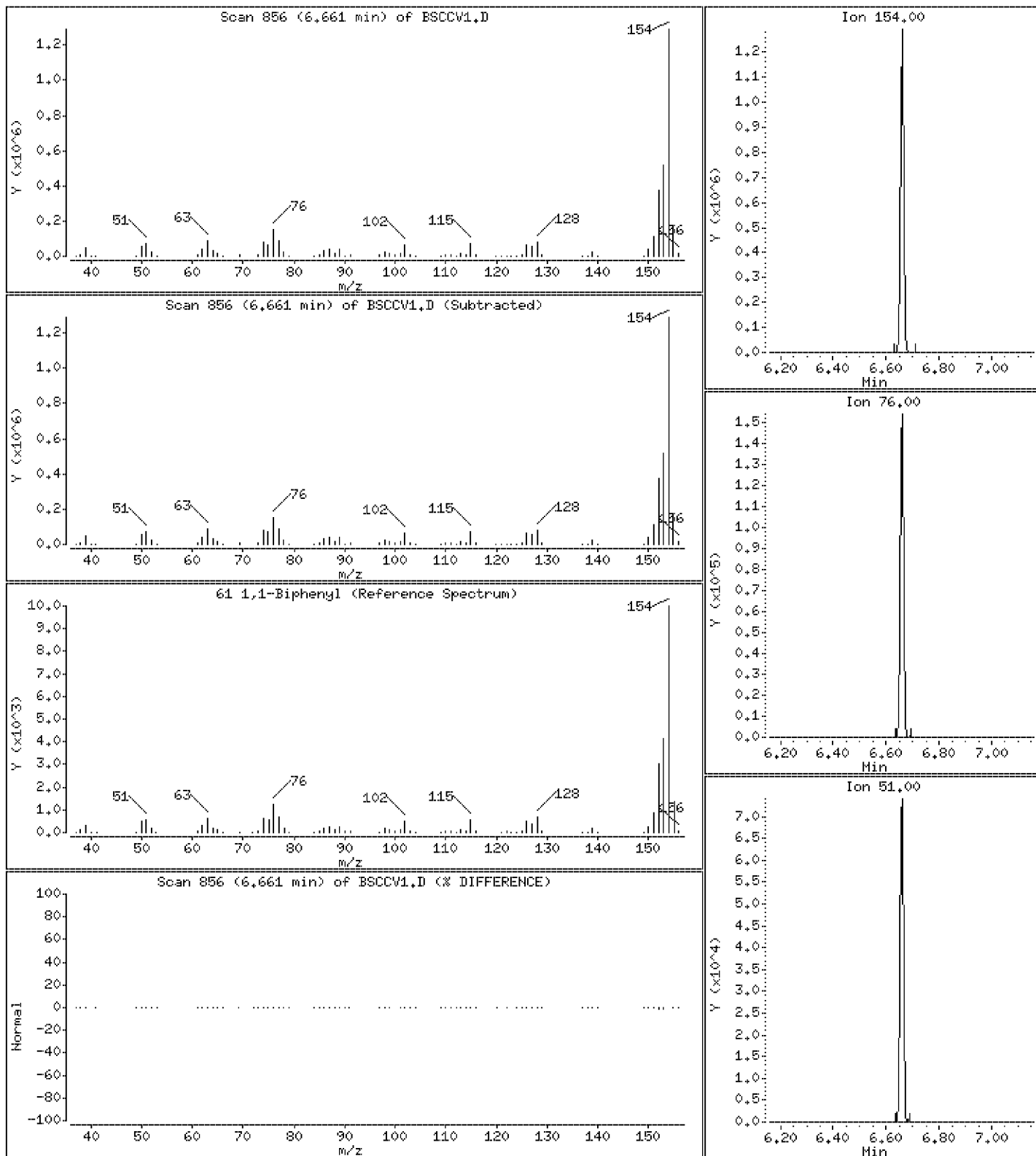
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

61 1,1-Biphenyl

Concentration: 46.4 ug/l



Date : 03-MAY-2012 11:15

Client ID: BSCCV1

Instrument: smsd03.i

Sample Info: 45936

Purge Volume: 1000.0

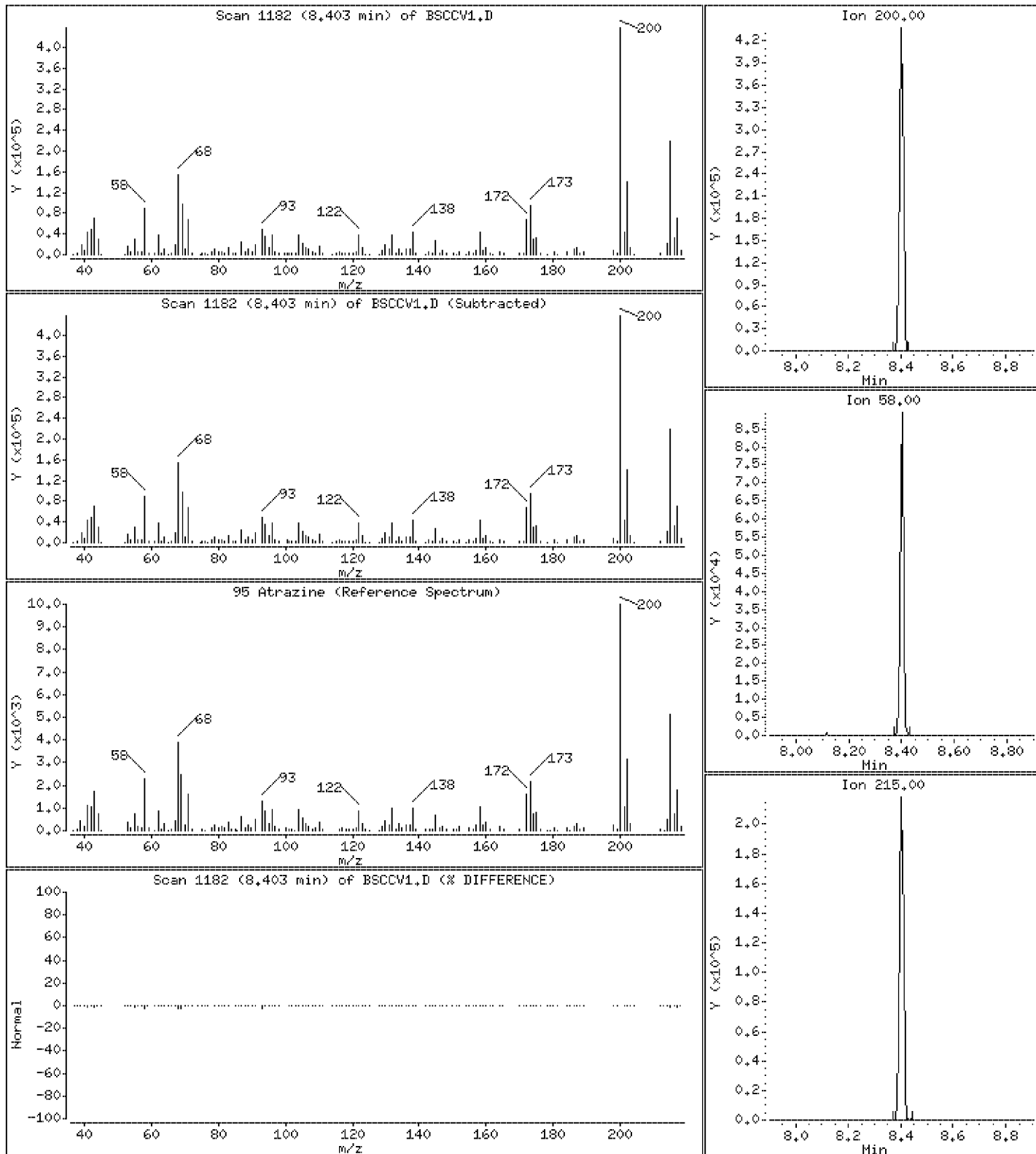
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

95 Atrazine

Concentration: 48.9 ug/l



Date : 03-MAY-2012 11:15

Client ID: BSCCV1

Instrument: smsd03.i

Sample Info: 45936

Purge Volume: 1000.0

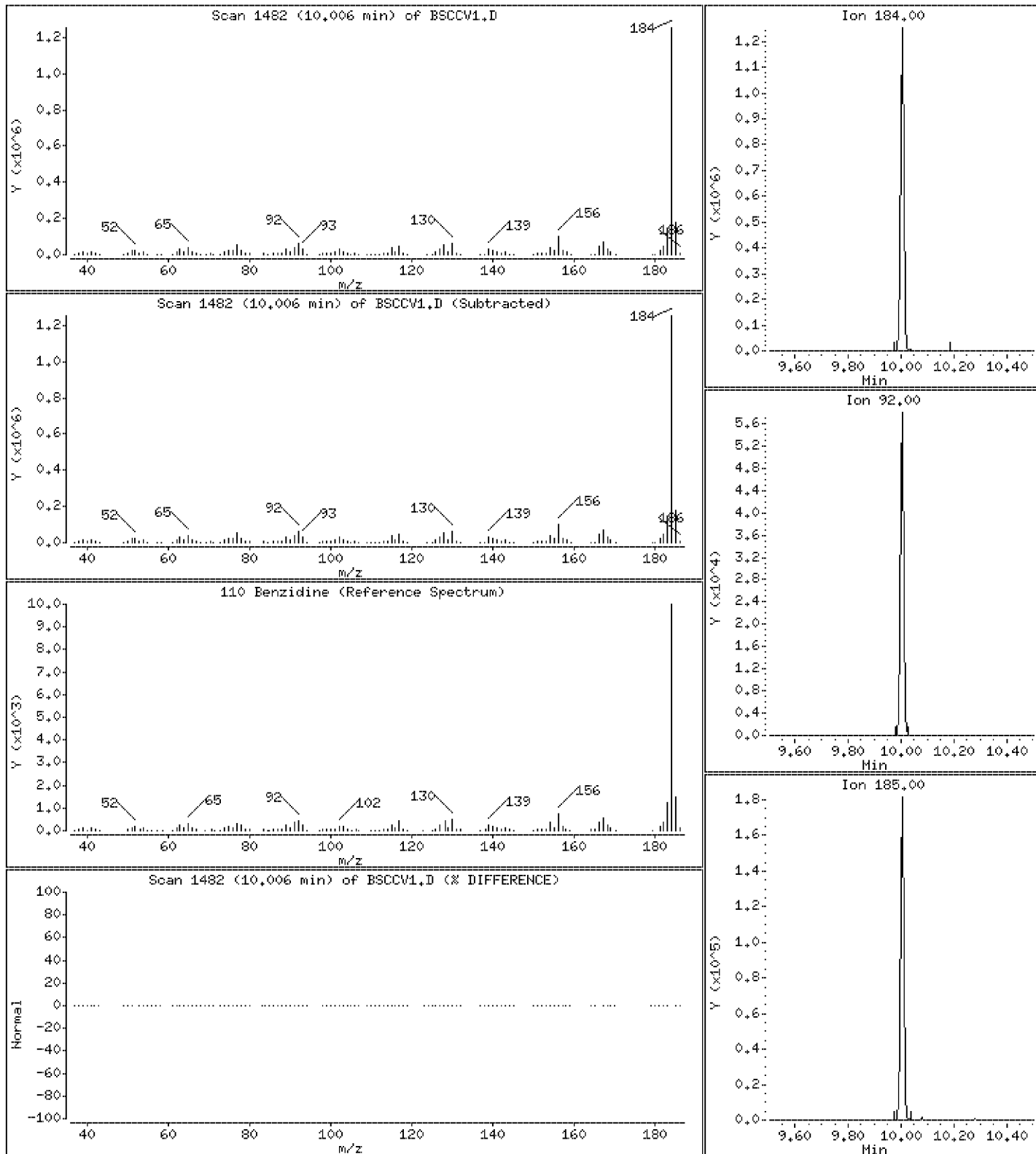
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

110 Benzidine

Concentration: 48.6 ug/l



Date : 03-MAY-2012 11:15

Client ID: BSCCV1

Instrument: smsd03.i

Sample Info: 45936

Purge Volume: 1000.0

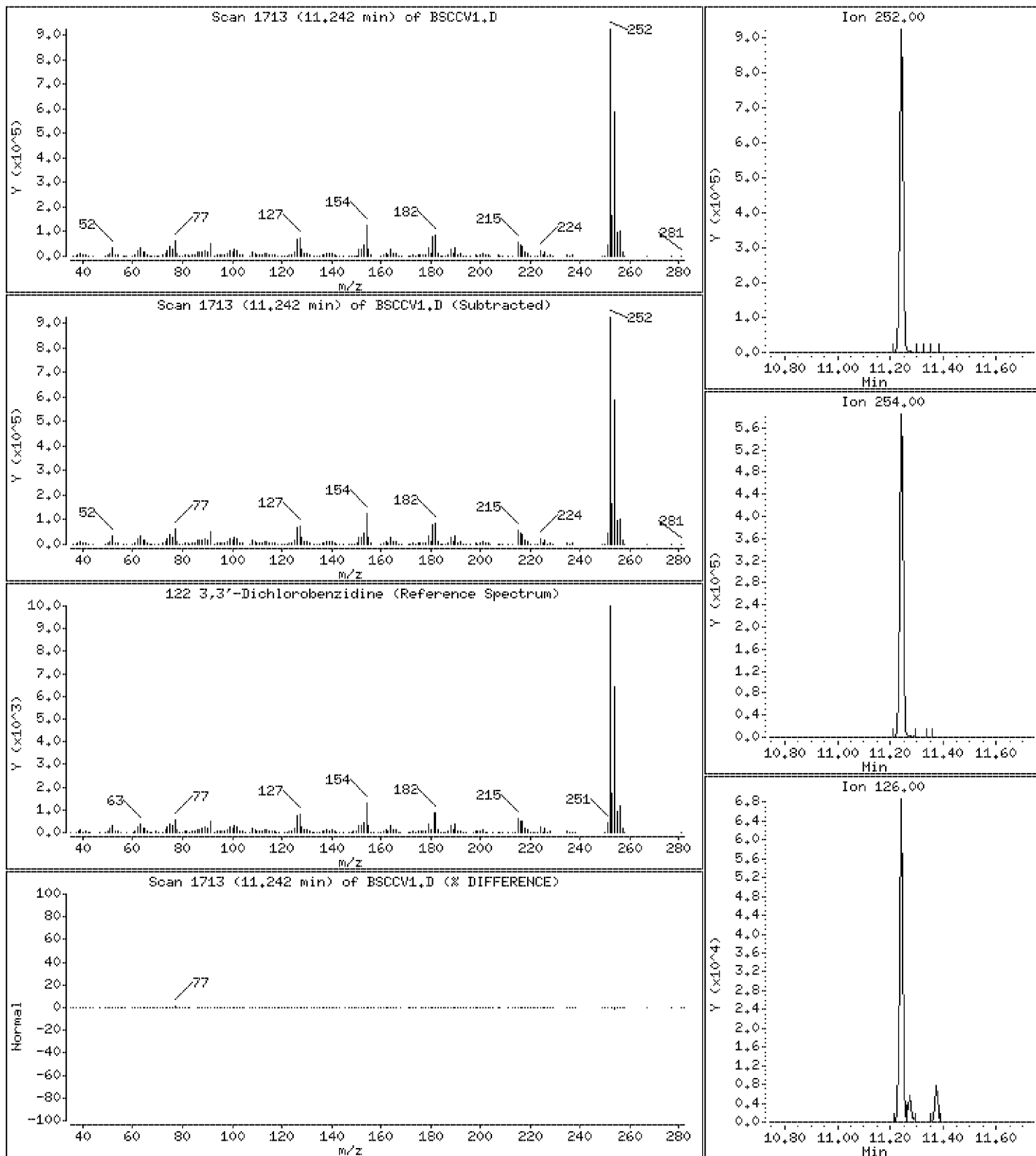
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

122 3,3'-Dichlorobenzidine

Concentration: 48.9 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3050312.b\AP9CCV1.D
 Lab Smp Id: 45958 Client Smp ID: AP9CCV1
 Inj Date : 03-MAY-2012 11:39 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 45958
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3050312.b\8270bcs.m
 Meth Date : 03-May-2012 14:03 smsd03.i Quant Type: ISTD
 Cal Date : 23-APR-2012 18:17 Cal File: AP9CAL4.D
 Als bottle: 3 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ap9cal.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
3 2- Picoline CAS #: 109-06-8									
2.845	2.845 (0.651)		93	413934	45.0000	46.0	80.00- 120.00	100.00(TQ)	
2.845	2.845 (0.651)		66	206573			19.90- 79.90	49.90	
2.845	2.845 (0.651)		92	107151			0.00- 55.89	25.89	
4 N-Nitrosomethylethylamine CAS #: 10595-95-6									
2.924	2.924 (0.670)		88	175982	45.0000	45.9	80.00- 120.00	100.00	
2.923	2.923 (0.669)		43	82158			16.69- 76.69	46.69	
2.925	2.925 (0.670)		42	171913			67.69- 127.69	97.69	
5 Methyl Methanesulfonate CAS #: 66-27-3									
3.159	3.159 (0.723)		80	283712	45.0000	44.8	80.00- 120.00	100.00(Q)	
3.159	3.159 (0.723)		79	169293			29.67- 89.67	59.67	
3.158	3.158 (0.723)		65	77553			0.00- 57.34	27.34	
7 N-Nitrosodiethylamine CAS #: 55-18-5									
3.472	3.472 (0.795)		102	171794	45.0000	45.2	80.00- 120.00	100.00(Q)	
3.471	3.471 (0.795)		42	120774			40.30- 100.30	70.30	
3.471	3.471 (0.795)		57	70645			11.12- 71.12	41.12	
8 Ethyl Methanesulfonate CAS #: 62-50-0									
3.711	3.711 (0.850)		79	294598	45.0000	44.8	80.00- 120.00	100.00(TQ)	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	=====	=====	=====	=====	=====	=====	=====
8 Ethyl Methanesulfonate (continued)									
3.711	3.711	(0.850)	109	155198			22.68- 82.68	52.68	
3.711	3.711	(0.850)	97	54332			0.00- 48.44	18.44	

12 Pentachloroethane CAS #: 76-01-7									
4.127	4.127	(0.945)	167	175021	45.0000	46.6	80.00- 120.00	100.00	
4.126	4.126	(0.945)	117	123944			40.82- 100.82	70.82	
4.126	4.126	(0.945)	130	75596			13.19- 73.19	43.19	

* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.367	4.367	(1.000)	152	245585	40.0000		80.00- 120.00	100.00	
4.366	4.367	(1.000)	115	155623			32.88- 92.88	63.37	
4.367	4.367	(1.000)	150	375475			139.40- 199.40	152.89	

24 N-Nitrosopyrrolidine CAS #: 930-55-2									
4.709	4.709	(1.078)	100	181349	45.0000	45.3	80.00- 120.00	100.00(QH)	
4.708	4.708	(1.078)	41	123705			38.21- 98.21	68.21	
4.709	4.709	(1.078)	42	111165			31.30- 91.30	61.30	

25 Acetophenone CAS #: 98-86-2									
4.723	4.723	(0.854)	105	540835	45.0000	44.7	80.00- 120.00	100.00	
4.723	4.723	(0.854)	77	533900			68.72- 128.72	98.72	
4.722	4.722	(0.854)	51	137184			0.00- 55.37	25.37	

27 N-Nitrosomorpholine CAS #: 59-89-2									
4.739	4.739	(1.085)	56	185227	45.0000	45.2	80.00- 120.00	100.00(TQ)	
4.740	4.740	(1.085)	116	67340			6.36- 66.36	36.36	
4.740	4.740	(1.085)	86	131204			40.83- 100.83	70.83	

29 o-Toluidine CAS #: 95-53-4									
4.757	4.757	(1.089)	106	570989	45.0000	43.7	80.00- 120.00	100.00(Q)	
4.757	4.757	(1.089)	77	145553			0.00- 55.49	25.49	
4.757	4.757	(1.089)	107	435571			46.28- 106.28	76.28	

33 N-Nitrosopiperidine CAS #: 100-75-4									
5.017	5.017	(0.907)	114	163194	45.0000	46.7	80.00- 120.00	100.00(Q)	
5.016	5.016	(0.907)	42	188511			85.51- 145.51	115.51	
5.016	5.016	(0.907)	55	95077			28.26- 88.26	58.26	

37 o,o,o-Triethylphosphorothioate CAS #: 126-68-1									
5.261	5.261	(1.205)	198	278765	45.0000	47.2	80.00- 120.00	100.00	
5.260	5.260	(1.204)	97	178296			33.96- 93.96	63.96	
5.260	5.260	(1.204)	65	146184			22.44- 82.44	52.44	

39 a,a-Dimethylphenethylamine CAS #: 122-09-8									
5.364	5.364	(0.970)	58	560029	45.0000	45.7	80.00- 120.00	100.00(Q)	
5.365	5.365	(0.970)	91	193755			4.60- 64.60	34.60	
5.364	5.364	(0.970)	65	107891			0.00- 49.27	19.27	

* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.528	5.530	(1.000)	136	803759	40.0000		80.00- 120.00	100.00	
5.528	5.529	(1.000)	68	41681			0.00- 35.11	5.19	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
====	=====	=====	=====	=====	=====	=====	=====	=====
46 2,6-Dichlorophenol					CAS #: 87-65-0			
5.612	5.612	(1.015)	162	314169	45.0000	46.7	80.00- 120.00	100.00(Q)
5.611	5.611	(1.015)	63	248909			49.23- 109.23	79.23
5.612	5.612	(1.015)	98	84577			0.00- 56.92	26.92

47 Hexachloropropene					CAS #: 1888-71-7			
5.633	5.633	(1.019)	213	424374	45.0000	47.4	80.00- 120.00	100.00
5.633	5.633	(1.019)	215	272817			34.29- 94.29	64.29
5.632	5.632	(1.019)	117	83647			0.00- 49.71	19.71

49 N-Nitrosodi-n-butylamine					CAS #: 924-16-3			
5.916	5.916	(1.070)	84	304310	45.0000	47.0	80.00- 120.00	100.00(TQ)
5.916	5.916	(1.070)	57	178538			28.67- 88.67	58.67
5.916	5.916	(1.070)	41	154080			20.63- 80.63	50.63

52 Isosafrole					CAS #: 120-58-1			
6.123	6.123	(1.108)	162	300513	45.0000	46.1	80.00- 120.00	100.00(TQ)
6.122	6.122	(1.107)	104	224945			44.85- 104.85	74.85
6.123	6.123	(1.107)	131	144695			18.15- 78.15	48.15

56 1,2,4,5-Tetrachlorobenzene					CAS #: 95-94-3			
6.373	6.373	(0.882)	216	489951	45.0000	46.6	80.00- 120.00	100.00
6.373	6.373	(0.882)	214	382269			48.02- 108.02	78.02
6.372	6.372	(0.882)	108	90410			0.00- 48.45	18.45

60 Safrole					CAS #: 94-59-7			
6.625	6.625	(1.198)	162	288781	45.0000	47.2	80.00- 120.00	100.00(Q)
6.625	6.625	(1.198)	104	181944			33.00- 93.00	63.00
6.625	6.625	(1.198)	77	118687			11.10- 71.10	41.10

64 1,4-Naphthoquinone					CAS #: 130-15-4			
6.854	6.854	(0.949)	158	289547	45.0000	48.7	80.00- 120.00	100.00(Q)
6.854	6.854	(0.949)	102	258197			59.17- 119.17	89.17
6.854	6.854	(0.949)	130	131969			15.58- 75.58	45.58

66 1,3-Dinitrobenzene					CAS #: 99-65-0			
6.993	6.993	(0.968)	168	135489	45.0000	48.2	80.00- 120.00	100.00(Q)
6.992	6.992	(0.968)	75	173153			97.80- 157.80	127.80
6.992	6.992	(0.968)	50	98787			42.91- 102.91	72.91

* 70 Acenaphthene-d10					CAS #: 15067-26-2			
7.224	7.225	(1.000)	164	555380	40.0000		80.00- 120.00	100.00
7.224	7.225	(1.000)	162	535645			65.82- 125.82	96.45
7.224	7.225	(1.000)	160	241796			14.18- 74.18	43.54

73 Pentachlorobenzene					CAS #: 608-93-5			
7.388	7.388	(1.023)	250	480482	45.0000	46.8	80.00- 120.00	100.00
7.388	7.388	(1.023)	252	312688			35.08- 95.08	65.08
7.387	7.387	(1.023)	108	128048			0.00- 56.65	26.65

77 1-Naphthylamine					CAS #: 134-32-7			
7.502	7.502	(1.038)	143	444192	45.0000	45.7	80.00- 120.00	100.00(Q)
7.501	7.501	(1.038)	115	251133			26.54- 86.54	56.54

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
77 1-Naphthylamine (continued)								
7.501	7.501	(1.038)	89	54069			0.00- 42.17	12.17

78 2,3,4,6-Tetrachlorophenol CAS #: 58-90-2								
7.554	7.554	(1.046)	232	274405	45.0000	48.7	80.00- 120.00	100.00(Q)
7.553	7.553	(1.046)	168	71092			0.00- 55.91	25.91
7.553	7.553	(1.046)	131	113682			11.43- 71.43	41.43

79 2-Naphthylamine CAS #: 91-59-8								
7.581	7.581	(1.049)	143	576937	45.0000	45.3	80.00- 120.00	100.00(Q)
7.581	7.581	(1.049)	115	346485			30.06- 90.06	60.06
7.581	7.581	(1.049)	116	129186			0.00- 52.39	22.39

83 5-Nitro-ortho-toluidine CAS #: 99-55-8								
7.779	7.779	(1.077)	152	233337	45.0000	47.2	80.00- 120.00	100.00(Q)
7.778	7.778	(1.077)	106	168990			42.42- 102.42	72.42
7.778	7.778	(1.077)	77	302692			99.72- 159.72	129.72

90 1,3,5-Trinitrobenzene CAS #: 99-35-4								
8.145	8.145	(1.128)	75	647295	45.0000	47.8	80.00- 120.00	100.00(QH)
8.145	8.145	(1.128)	74	407613			32.97- 92.97	62.97
8.147	8.147	(1.128)	213	238361			6.82- 66.82	36.82

89 Diallate CAS #: 2303-16-4								
8.152	8.152	(1.128)	86	323542	45.0000	46.9	80.00- 120.00	100.00(QM)
8.152	8.152	(1.128)	43	318007			68.29- 128.29	98.29
8.157	8.157	(1.129)	234	226316			39.95- 99.95	69.95

92 Phenacetin CAS #: 62-44-2								
8.189	8.189	(0.943)	109	368459	45.0000	45.2	80.00- 120.00	100.00(Q)
8.189	8.189	(0.943)	108	422343			84.62- 144.62	114.62
8.190	8.190	(0.943)	179	254423			39.05- 99.05	69.05

91 p-Phenylenediamine CAS #: 106-50-3								
8.189	8.189	(0.943)	108	422343	45.0000	47.3	80.00- 120.00	100.00(QH)
8.188	8.188	(0.943)	80	119128			0.00- 58.21	28.21
8.189	8.189	(0.943)	53	56317			0.00- 43.33	13.33

97 Pentachloronitrobenzene CAS #: 82-68-8								
8.511	8.511	(0.980)	237	193182	45.0000	46.0	80.00- 120.00	100.00
8.511	8.511	(0.980)	295	75377			9.02- 69.02	39.02
8.510	8.510	(0.980)	142	135502			40.14- 100.14	70.14

98 4-Aminobiphenyl CAS #: 92-67-1								
8.498	8.498	(0.979)	169	910189	45.0000	45.0	80.00- 120.00	100.00
8.498	8.498	(0.979)	168	201315			0.00- 52.12	22.12
8.498	8.498	(0.979)	115	106799			0.00- 41.73	11.73

99 Pronamide CAS #: 23950-58-5								
8.556	8.556	(0.986)	173	468542	45.0000	46.6	80.00- 120.00	100.00(Q)
8.556	8.556	(0.986)	175	299673			33.96- 93.96	63.96
8.556	8.556	(0.986)	145	183550			9.17- 69.17	39.17

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	
* 100 Phenanthrene-d10					CAS #: 1517-22-2				
8.681	8.679	(1.000)	188	1170116	40.0000		80.00- 120.00	100.00	
8.679	8.678	(1.000)	94	70055			0.00- 35.53	5.99	
8.679	8.678	(1.000)	80	92647			0.00- 37.34	7.92	
-----					-----				
102 Dinoseb					CAS #: 88-85-7				
8.677	8.677	(1.000)	211	266956	45.0000	40.4	80.00- 120.00	100.00	
8.676	8.676	(0.999)	163	99003			7.09- 67.09	37.09	
8.676	8.676	(0.999)	117	57712			0.00- 51.62	21.62	
-----					-----				
106 4-Nitroquinoline-1-oxide					CAS #: 56-57-5				
9.465	9.465	(1.090)	174	11327	45.0000	38.8	80.00- 120.00	100.00(Q)	
9.466	9.466	(1.090)	128	26655			205.32- 265.32	235.32	
9.464	9.464	(1.090)	101	40949			331.52- 391.52	361.52	
-----					-----				
107 Methapyrilene					CAS #: 91-80-5				
9.533	9.533	(1.098)	97	20951	45.0000	53.5	80.00- 120.00	100.00(TQ)	
9.533	9.533	(1.098)	58	19213			61.70- 121.70	91.70	
9.533	9.533	(1.098)	191	2466			0.00- 41.77	11.77	
-----					-----				
108 Isodrin					CAS #: 465-73-6				
9.720	9.720	(1.120)	193	163219	45.0000	45.8	80.00- 120.00	100.00(TQ)	
9.719	9.719	(1.120)	66	146653			59.85- 119.85	89.85	
9.721	9.721	(1.120)	195	139378			55.39- 115.39	85.39	
-----					-----				
113 Aramite					CAS #: 140-57-8				
10.294	10.294	(0.913)	185	158222	45.0000	45.8	80.00- 120.00	100.00(M)	
10.294	10.294	(0.913)	191	79150			20.02- 80.02	50.02	
10.295	10.295	(0.913)	319	23626			0.00- 44.93	14.93	
-----					-----				
114 p-Dimethylamino azobenzene					CAS #: 60-11-7				
10.384	10.384	(0.921)	225	392526	45.0000	46.0	80.00- 120.00	100.00(QH)	
10.383	10.383	(0.921)	120	357959			61.19- 121.19	91.19	
10.382	10.382	(0.921)	77	403002			72.67- 132.67	102.67	
-----					-----				
115 Chlorobenzilate					CAS #: 510-15-6				
10.426	10.426	(0.925)	251	610989	45.0000	46.4	80.00- 120.00	100.00	
10.426	10.426	(0.925)	253	389158			33.69- 93.69	63.69	
10.425	10.425	(0.925)	139	542039			58.72- 118.72	88.72	
-----					-----				
116 Kepone					CAS #: 143-50-0				
10.759	10.759	(0.954)	272	52282	45.0000	23.2	80.00- 120.00	100.00(M)	
10.762	10.762	(0.955)	274	39798			46.12- 106.12	76.12	
10.761	10.761	(0.954)	237	30675			28.67- 88.67	58.67	
-----					-----				
117 3,3-Dimethylbenzidine					CAS #: 119-93-7				
10.715	10.715	(0.950)	212	1201457	45.0000	46.4	80.00- 120.00	100.00(QH)	
10.714	10.714	(0.950)	106	76874			0.00- 36.40	6.40	
10.715	10.715	(0.950)	180	89049			0.00- 37.41	7.41	
-----					-----				
119 2-Acetylaminofluorene					CAS #: 53-96-3				
10.964	10.964	(0.972)	181	722306	45.0000	48.4	80.00- 120.00	100.00(Q)	
10.964	10.964	(0.972)	223	474551			35.70- 95.70	65.70	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
119 2-Acetylaminofluorene (continued)									
10.964	10.964	(0.972)	180	626698			56.76- 116.76	86.76	

* 121 Chrysene-d12					CAS #: 1719-03-5				
11.275	11.278	(1.000)	240	1448623	40.0000		80.00- 120.00	100.00	
11.273	11.276	(1.000)	120	72877			0.00- 35.66	5.03	
11.274	11.278	(1.000)	236	374150			0.00- 56.55	25.83	

126 7,12-Dimethylbenz(a)anthracen					CAS #: 57-97-6				
12.251	12.251	(0.972)	256	979243	45.0000	45.9	80.00- 120.00	100.00(Q)	
12.250	12.250	(0.972)	241	530905			24.22- 84.22	54.22	
12.251	12.251	(0.972)	239	443386			15.28- 75.28	45.28	

* 130 Perylene-d12					CAS #: 1520-96-3				
12.603	12.603	(1.000)	264	1498379	40.0000		80.00- 120.00	100.00	
12.603	12.603	(1.000)	260	363997			0.00- 54.38	24.29	
12.602	12.603	(1.000)	265	331620			0.00- 52.89	22.13	

131 3-Methylcholanthrene					CAS #: 56-49-5				
12.865	12.865	(1.021)	268	1077183	45.0000	44.8	80.00- 120.00	100.00	
12.865	12.865	(1.021)	252	458061			12.52- 72.52	42.52	
12.865	12.865	(1.021)	253	403702			7.48- 67.48	37.48	

132 Dibenz(a,j)acridine					CAS #: 224-42-0				
13.444	13.444	(1.067)	279	1621692	45.0000	46.9	80.00- 120.00	100.00(Q)	
13.444	13.444	(1.067)	280	378259			0.00- 53.32	23.32	
13.444	13.444	(1.067)	277	254033			0.00- 45.66	15.66	

QC Flag Legend

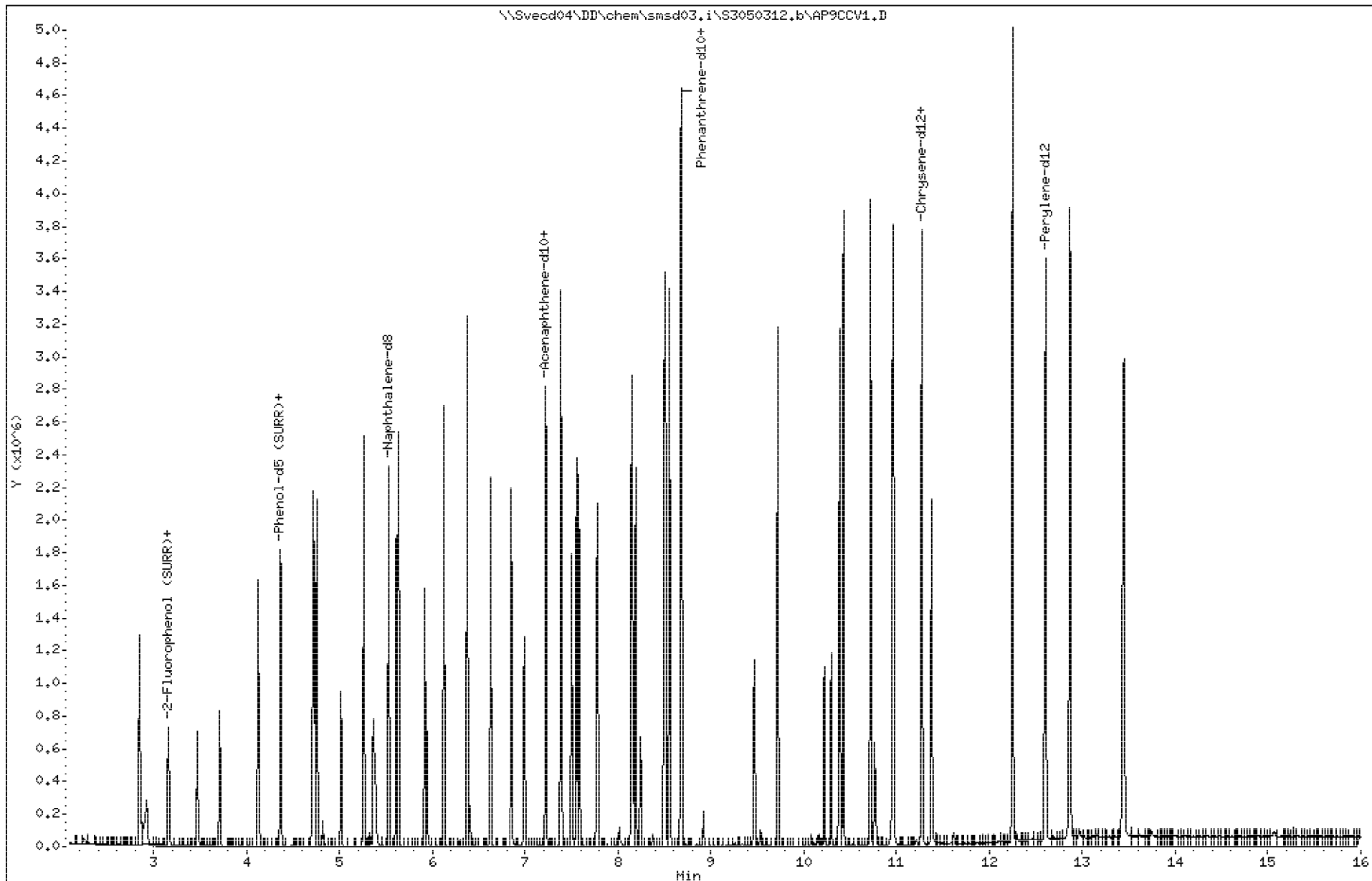
- T - Target compound detected outside RT window.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File: \\Svecd04\DD\chem\smsd03.i\S3050312.b\AP9CCV1.D
Date : 03-MAY-2012 11:39
Client ID: AP9CCV1
Sample Info: 45958
Purge Volume: 1000.0
Column phase: HPMS-5

Instrument: smsd03.i

Operator: PEL

Column diameter: 0.25



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

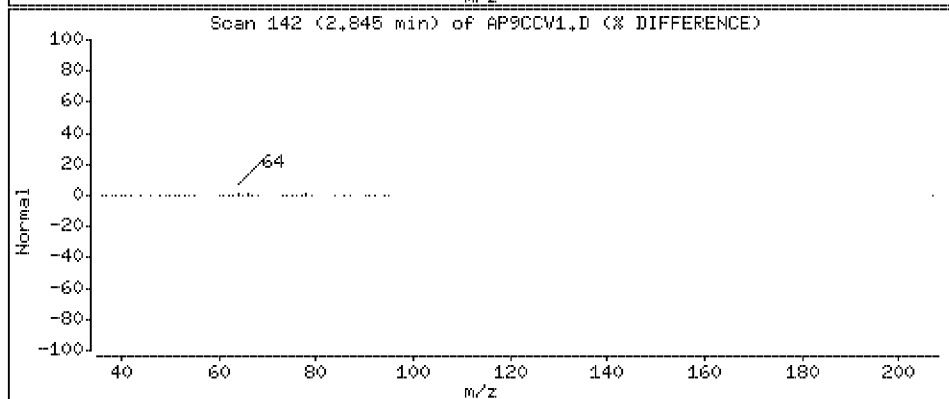
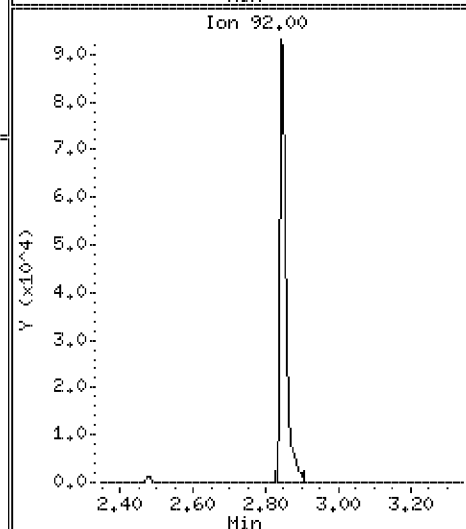
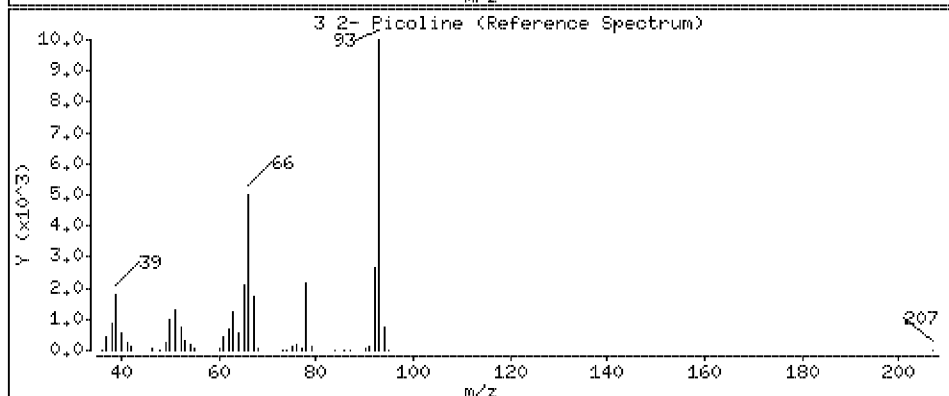
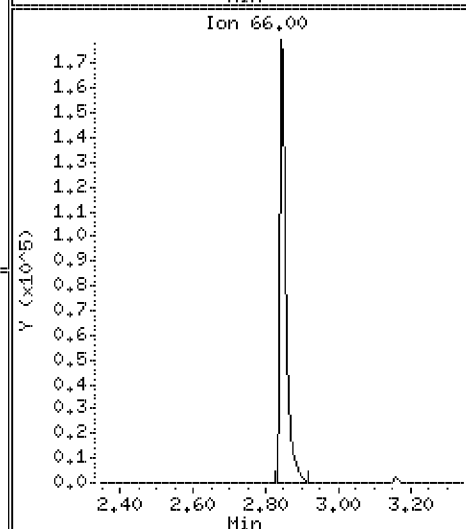
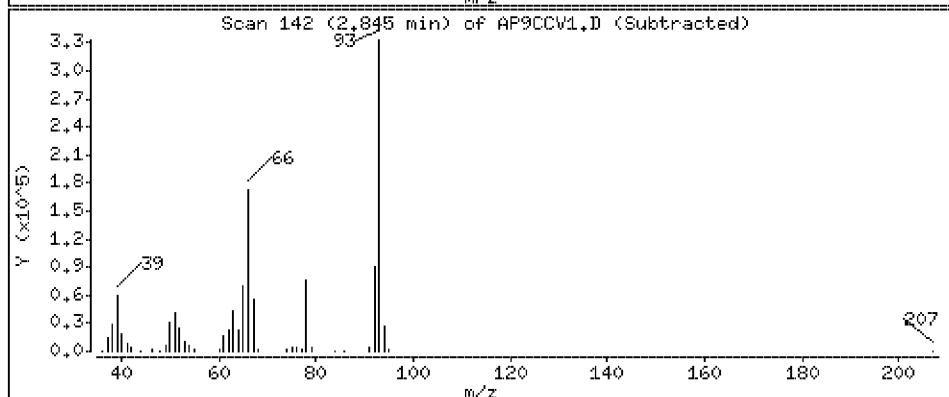
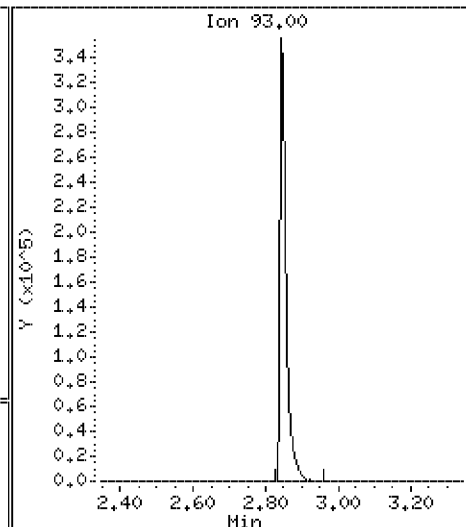
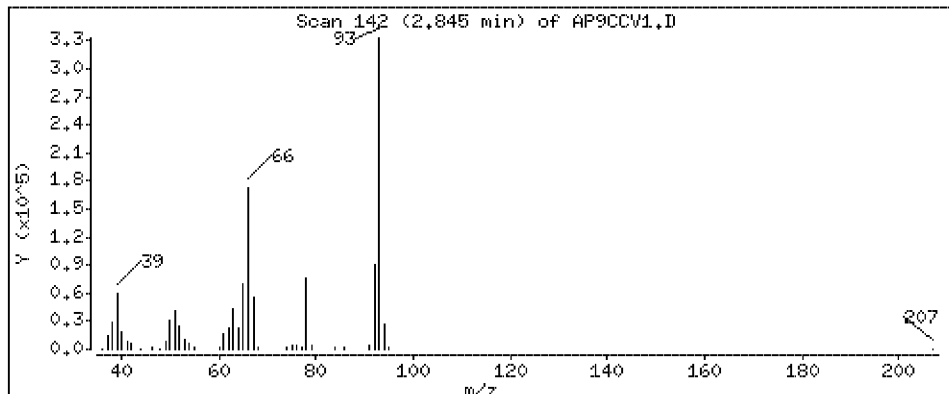
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

3 2- Picoline

Concentration: 46.0 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

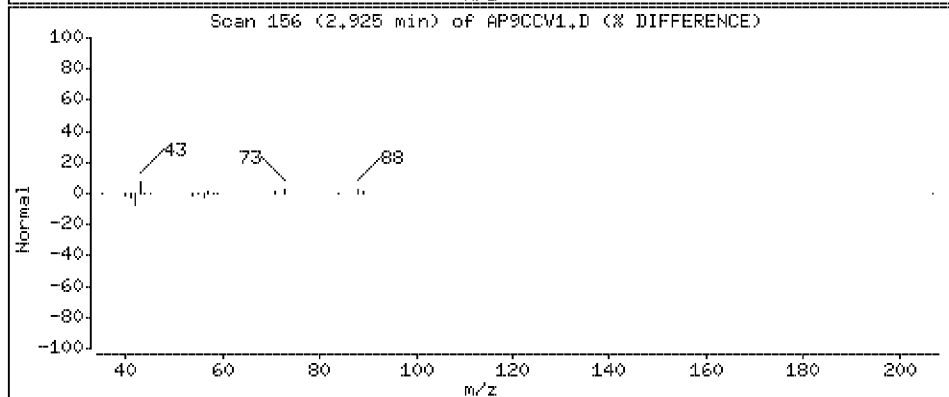
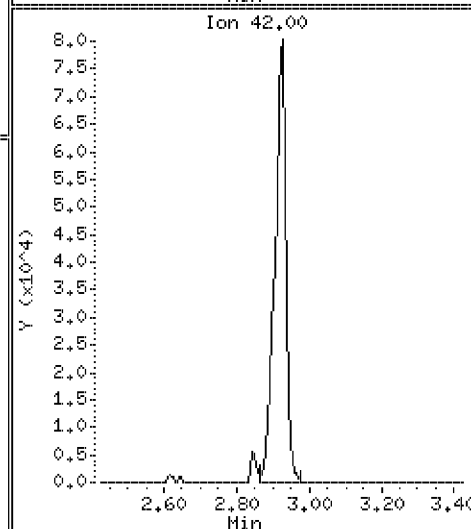
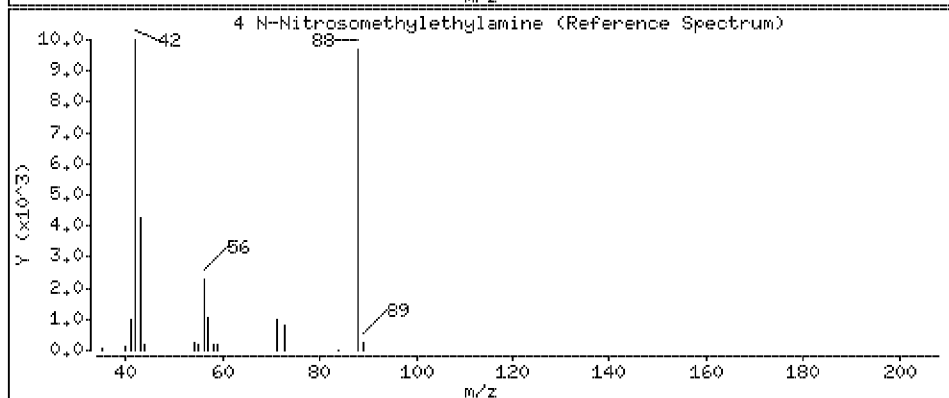
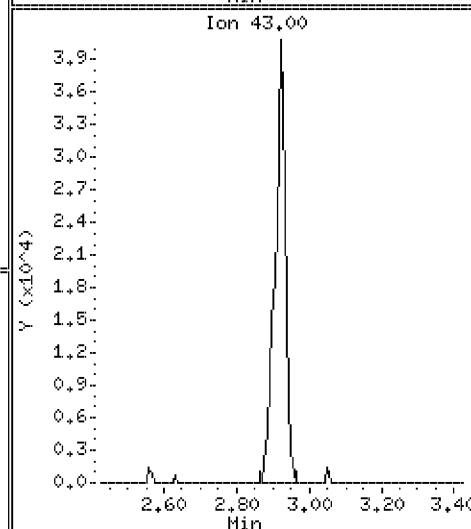
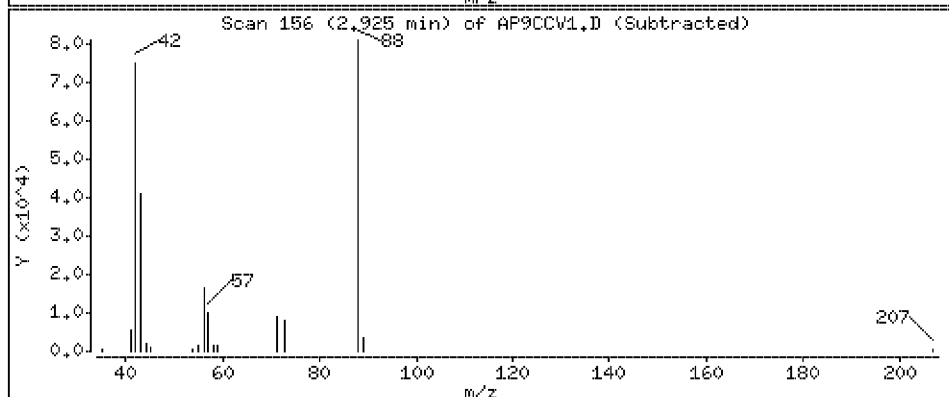
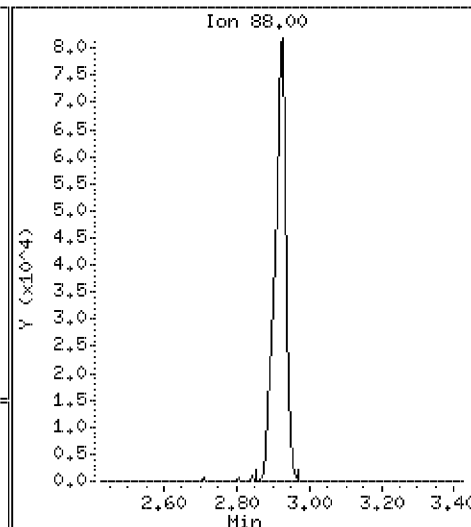
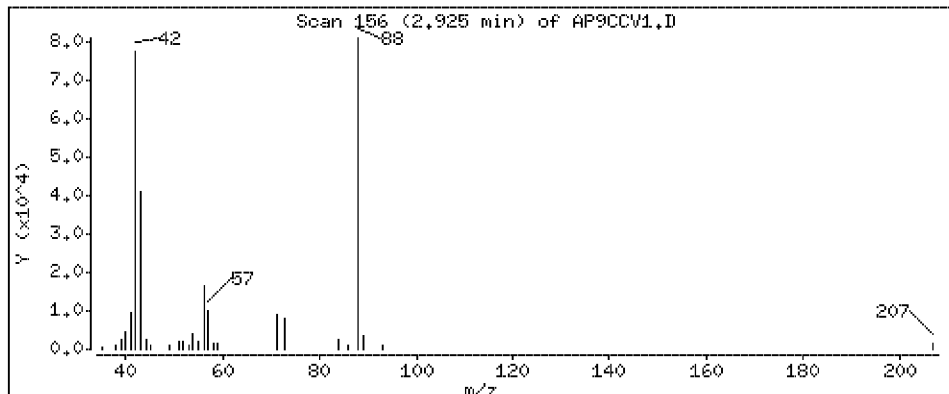
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

4 N-Nitrosomethylethylamine

Concentration: 45.9 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

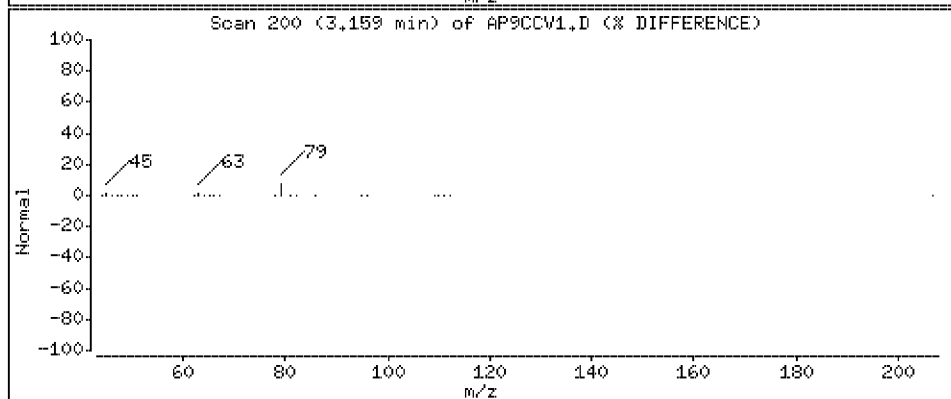
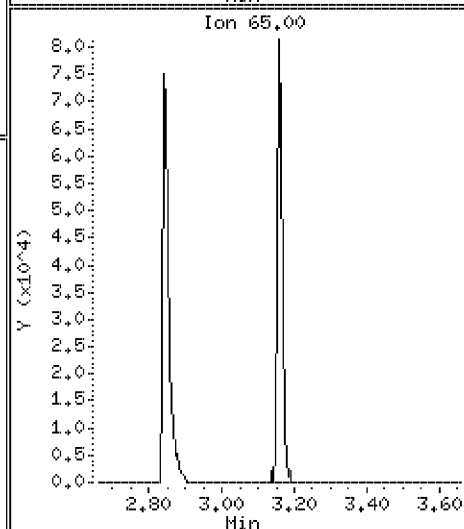
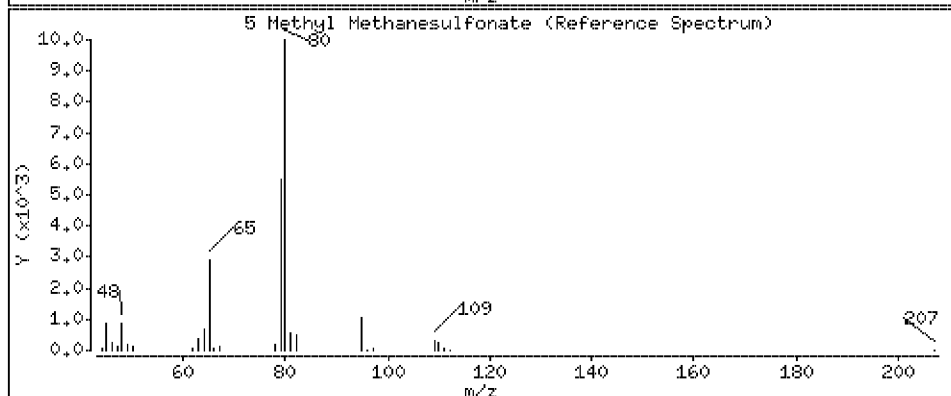
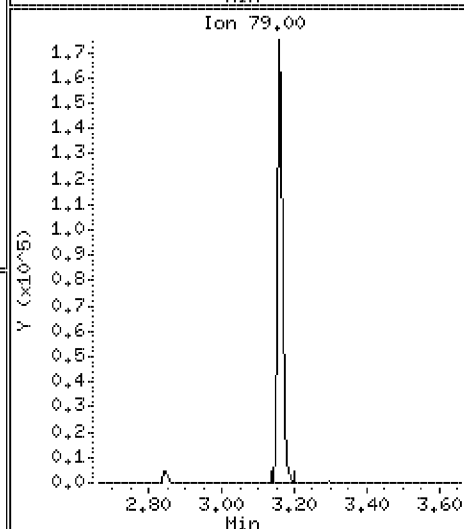
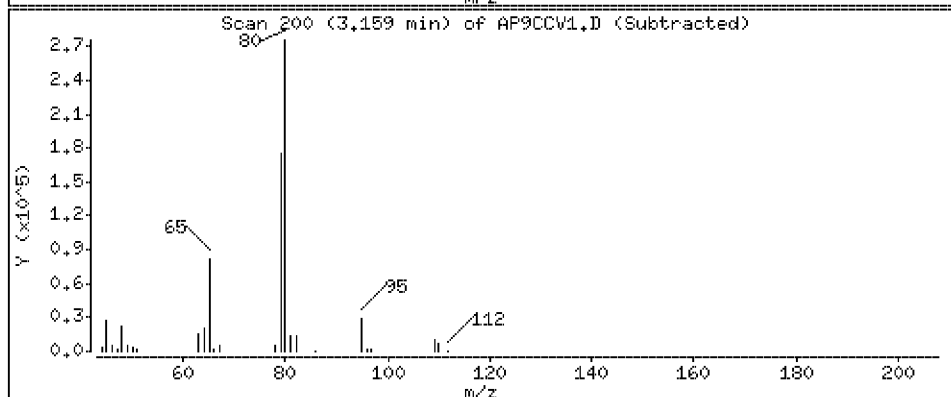
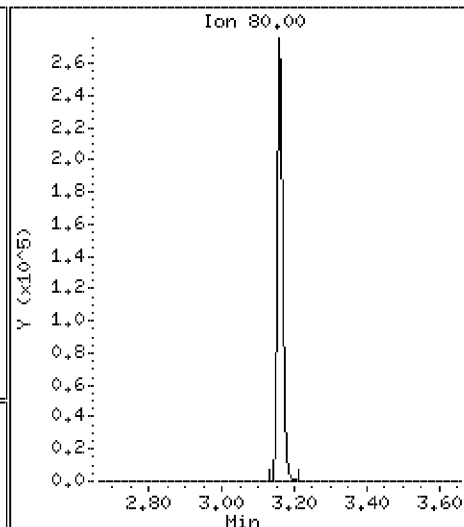
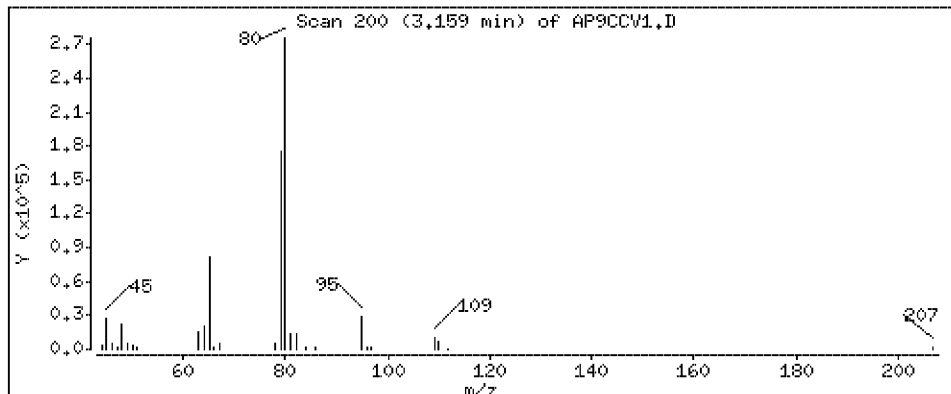
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

5 Methyl Methanesulfonate

Concentration: 44.8 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

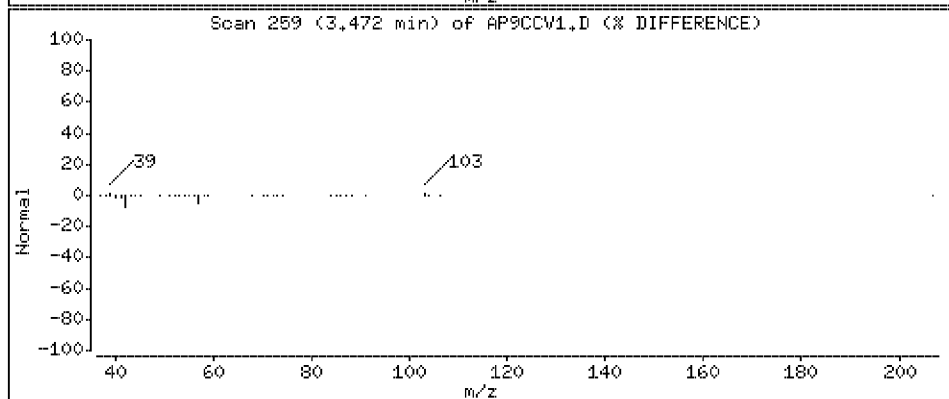
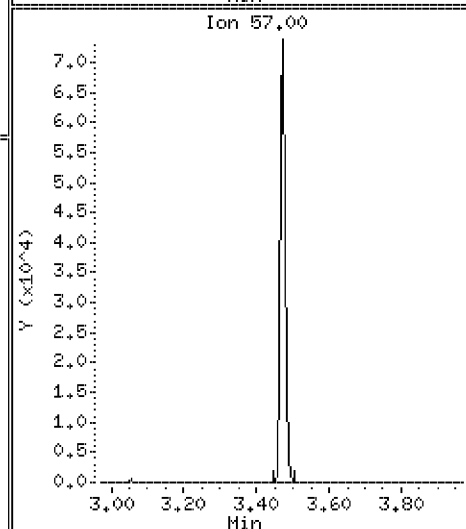
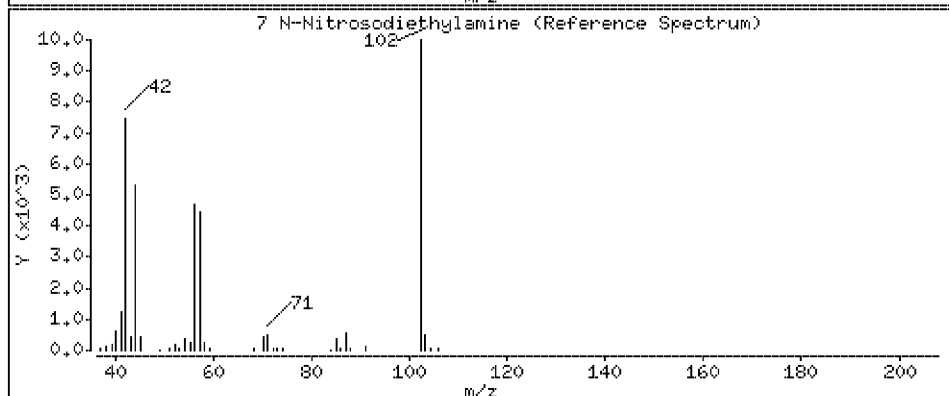
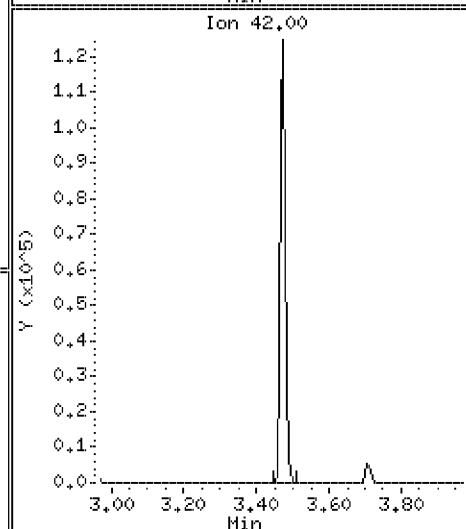
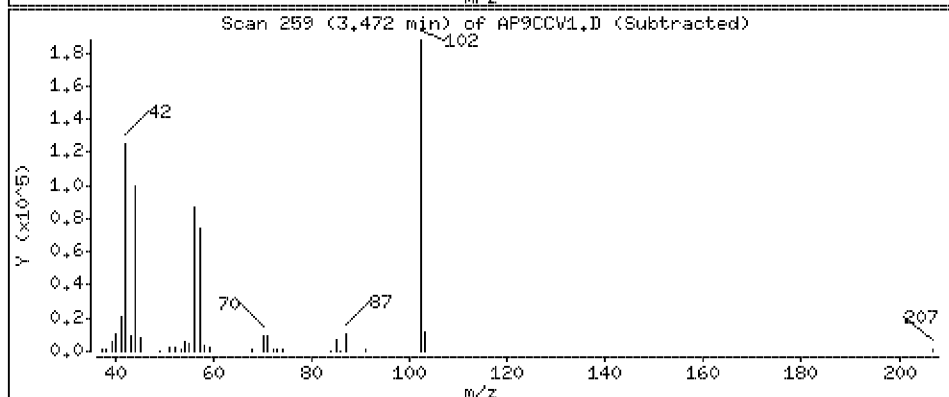
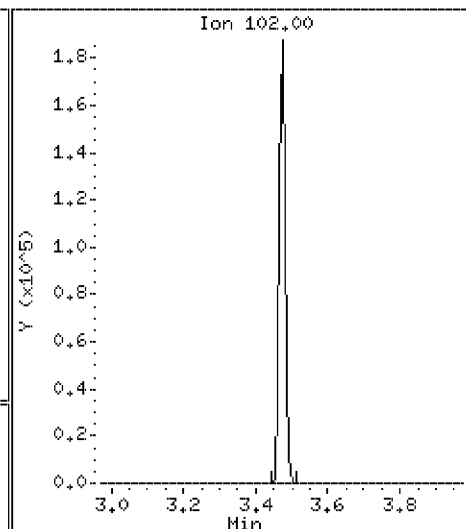
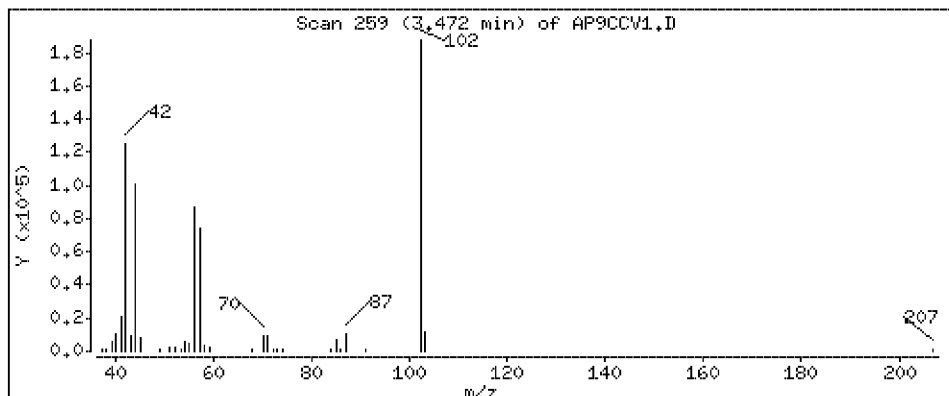
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

7 N-Nitrosodiethylamine

Concentration: 45.2 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

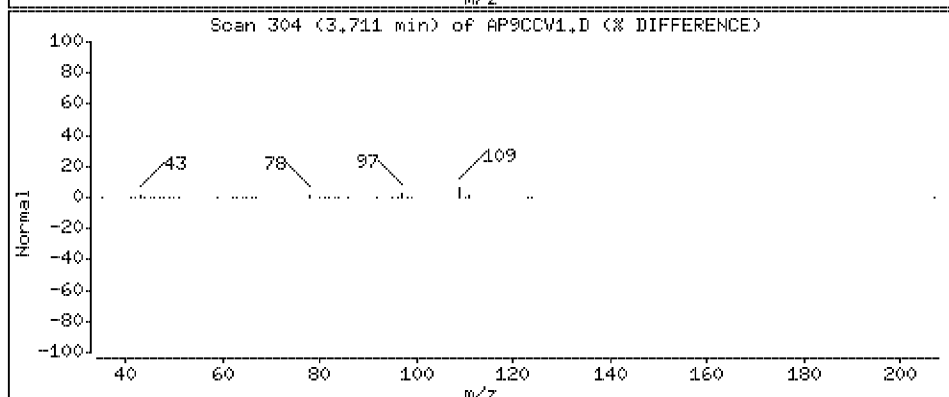
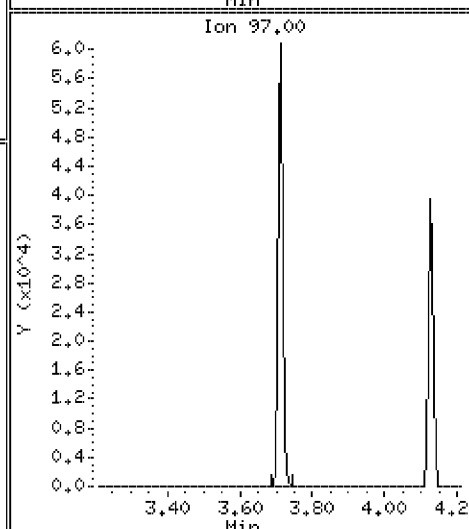
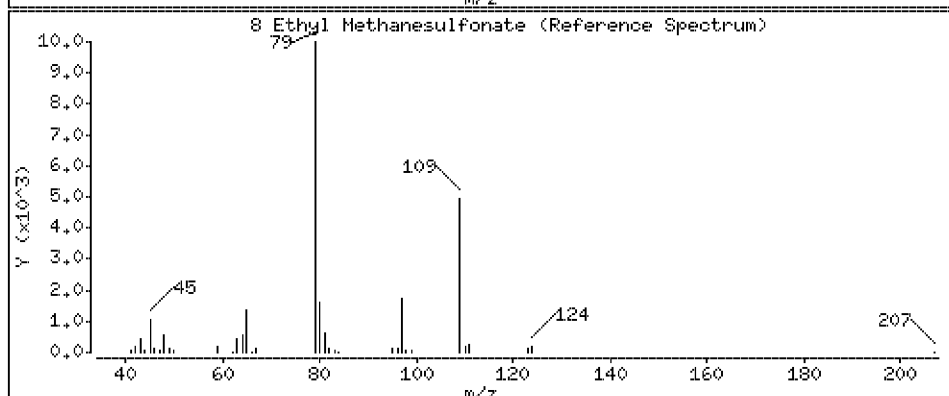
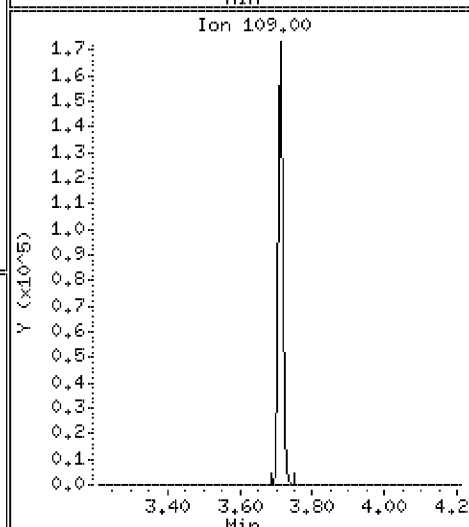
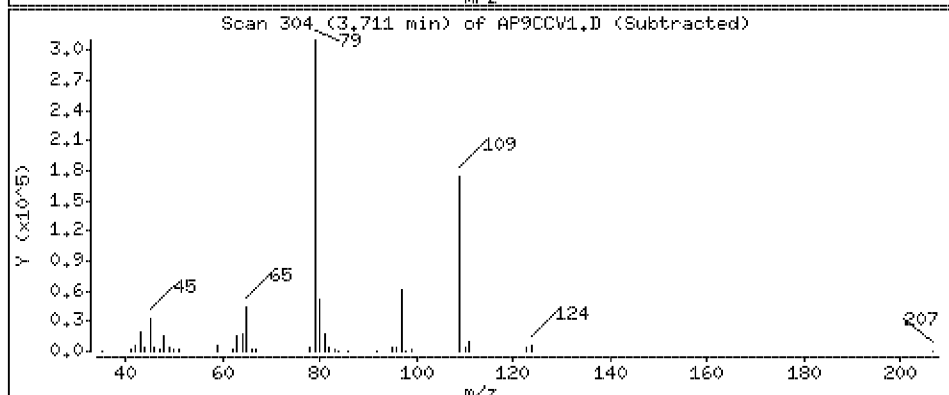
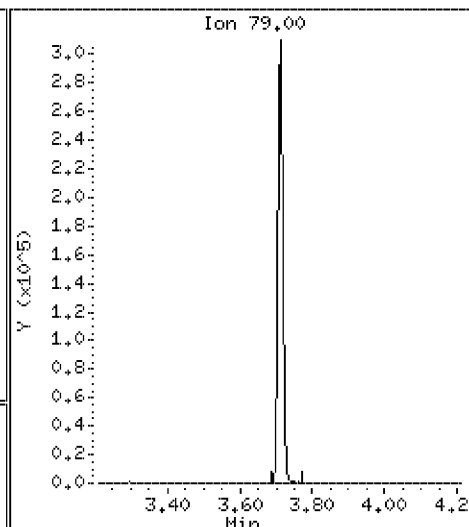
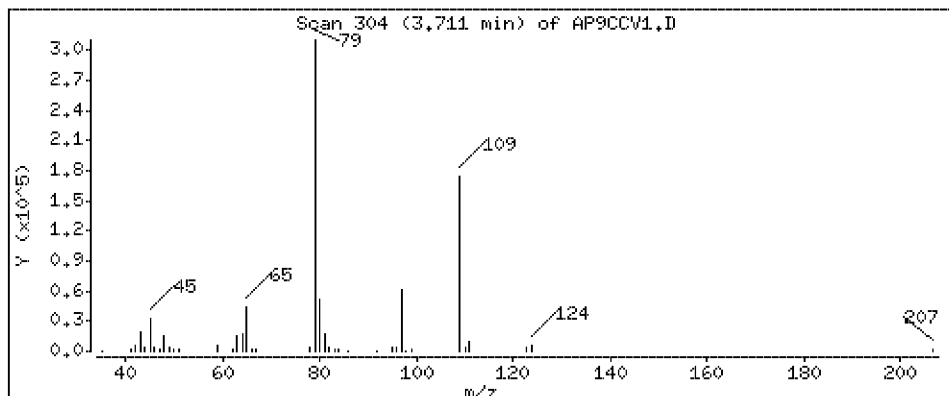
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

8 Ethyl Methanesulfonate

Concentration: 44.8 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

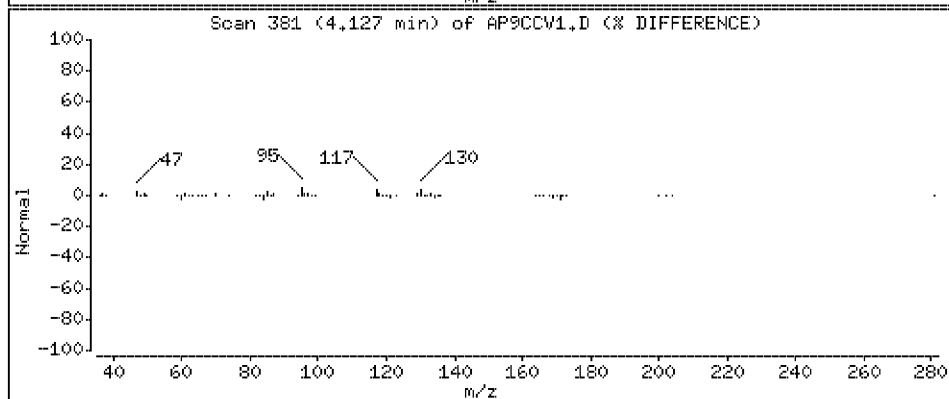
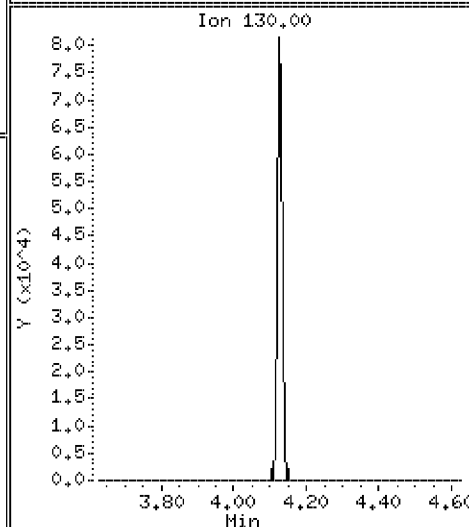
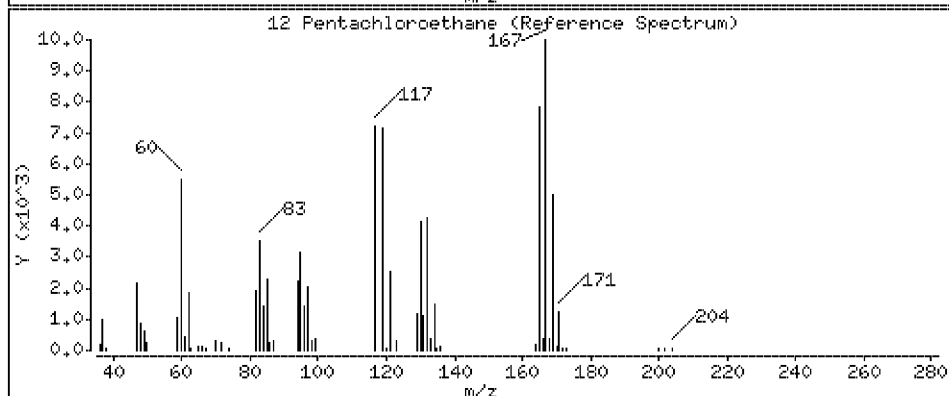
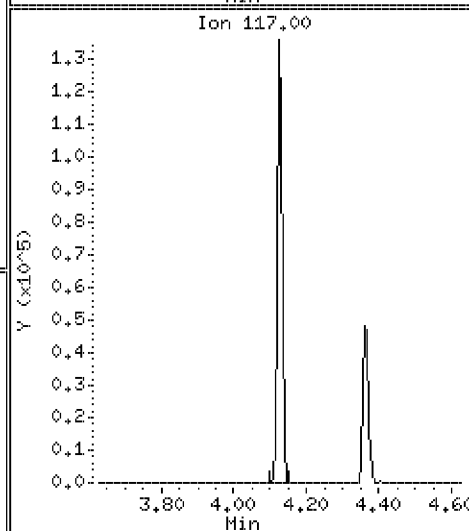
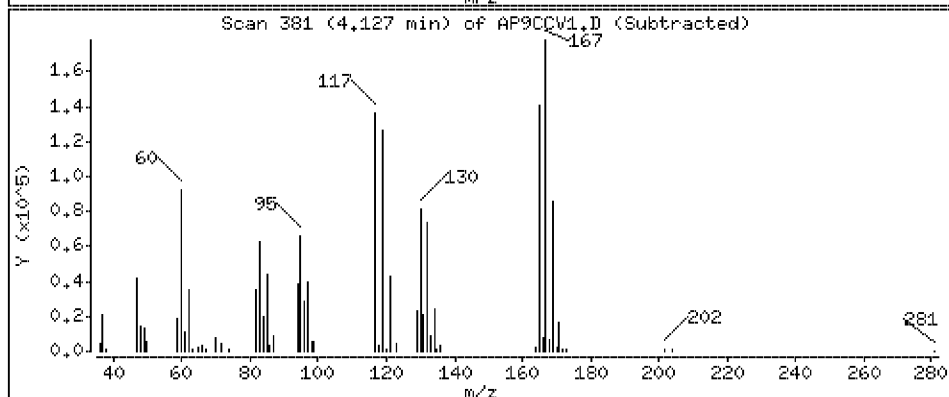
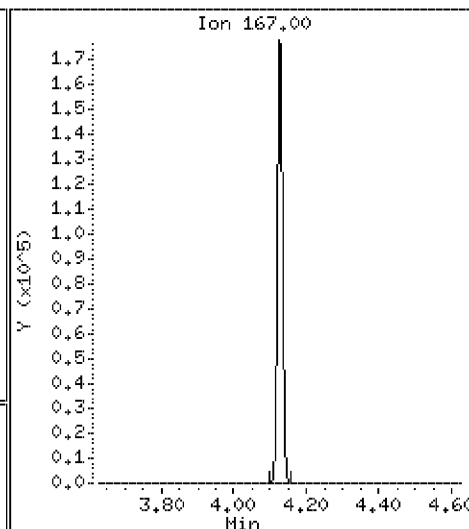
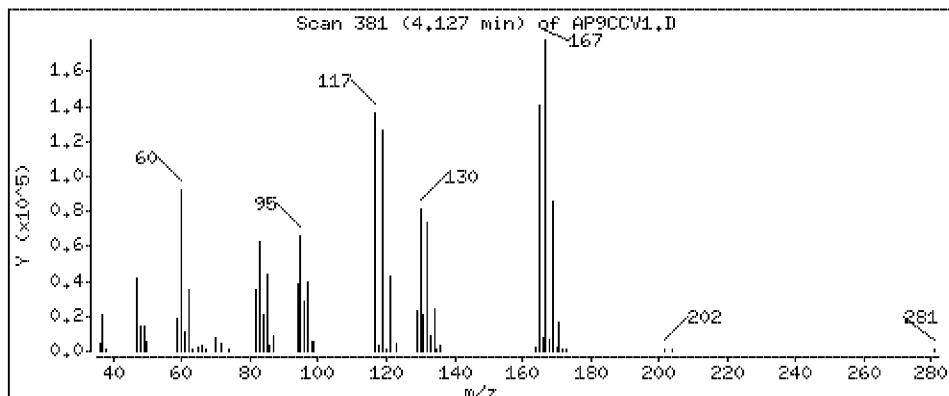
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

12 Pentachloroethane

Concentration: 46.6 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

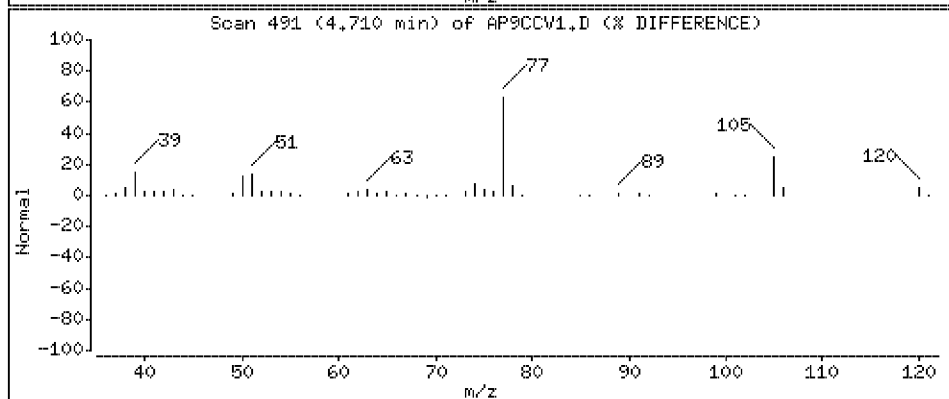
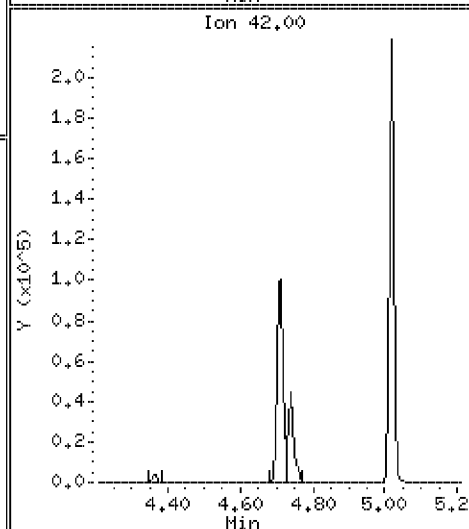
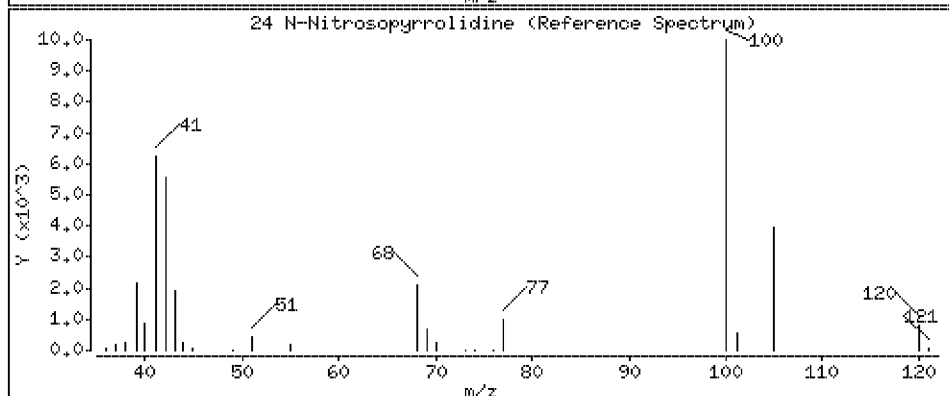
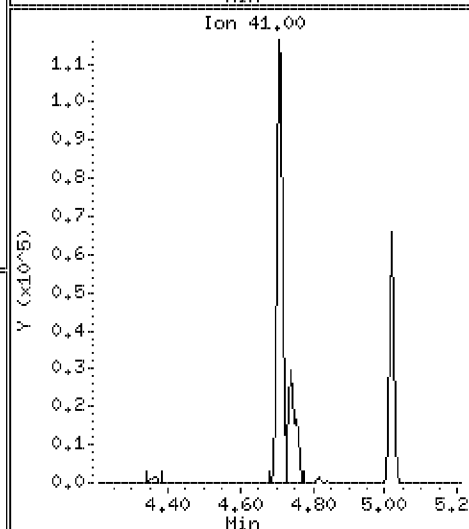
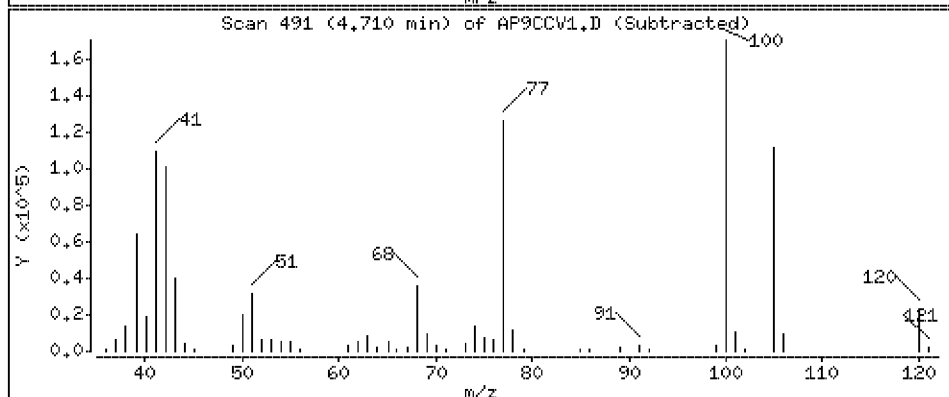
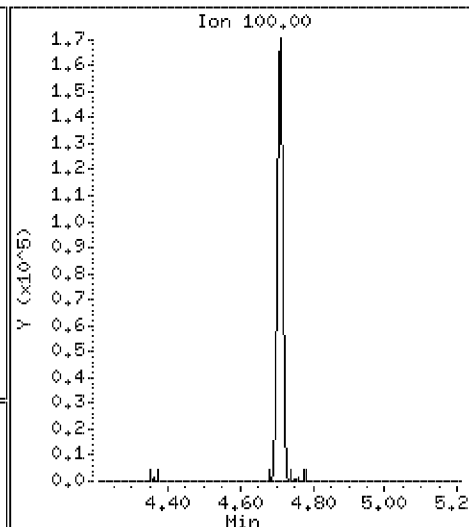
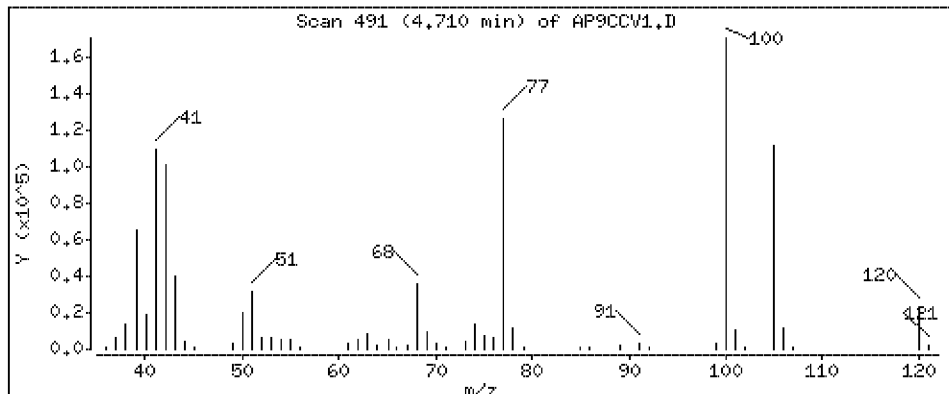
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

24 N-Nitrosopyrrolidine

Concentration: 45.3 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

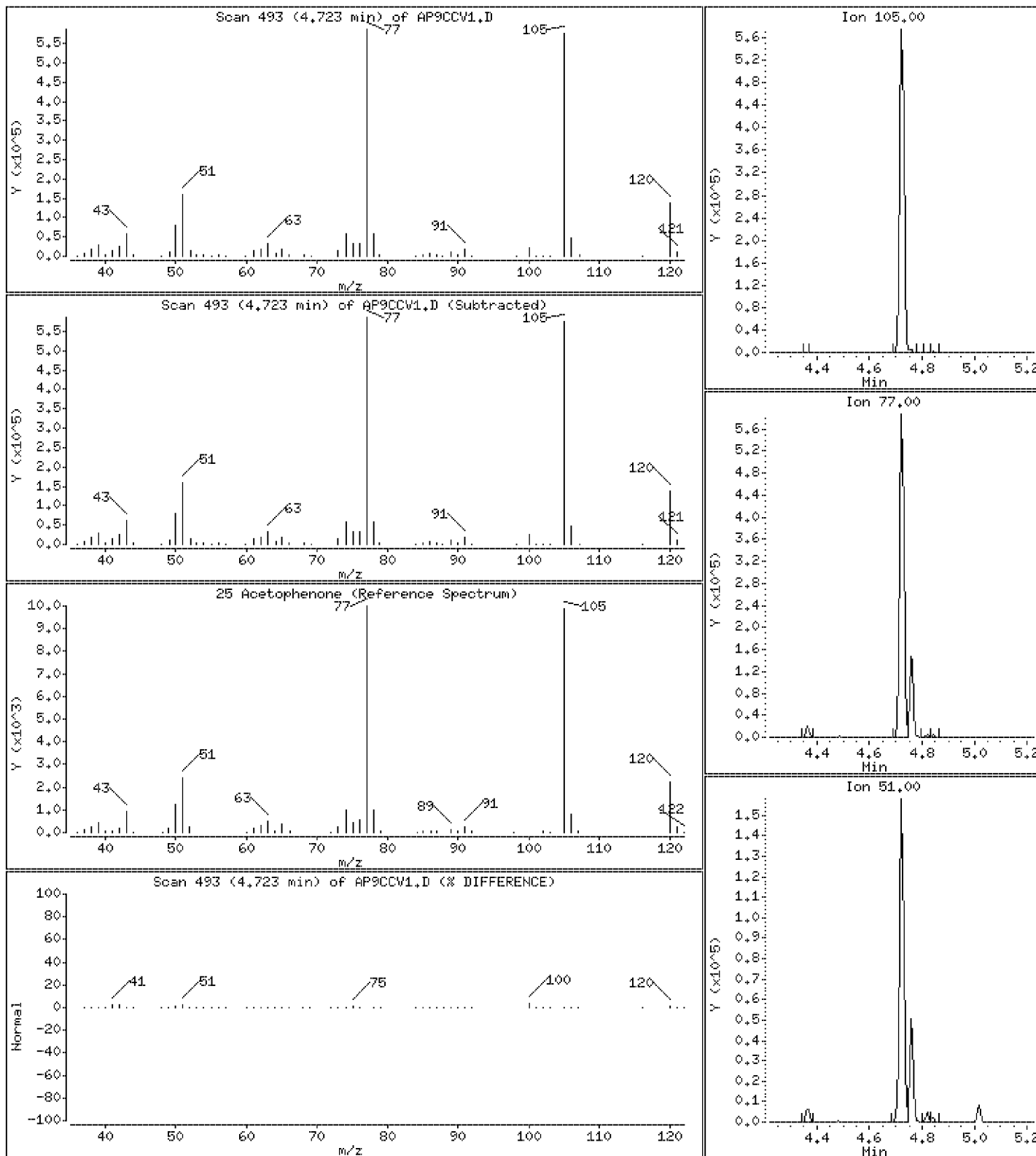
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

25 Acetophenone

Concentration: 44.7 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

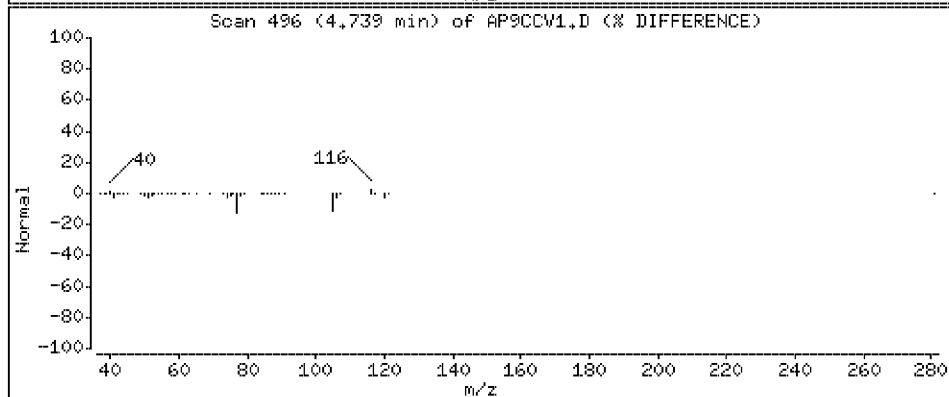
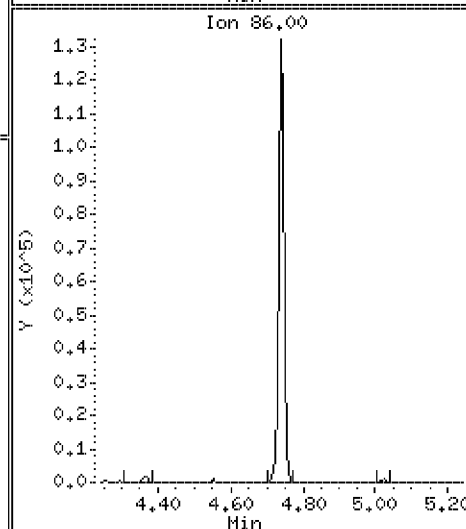
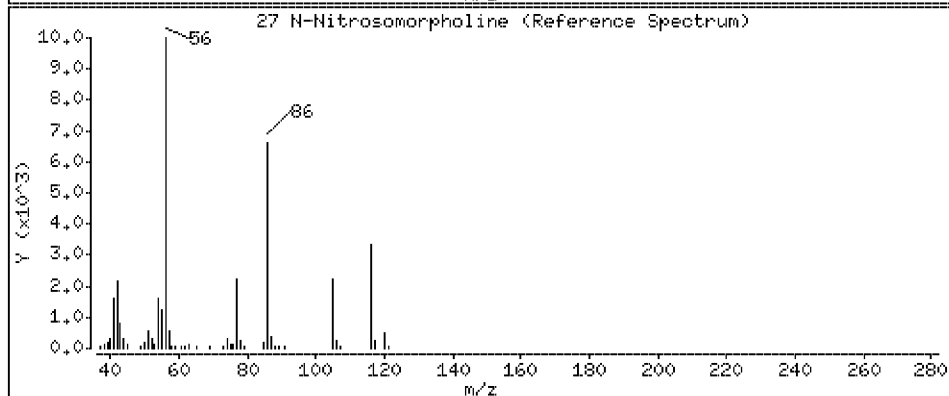
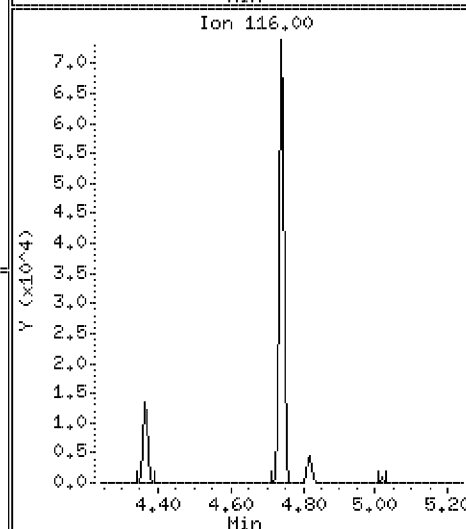
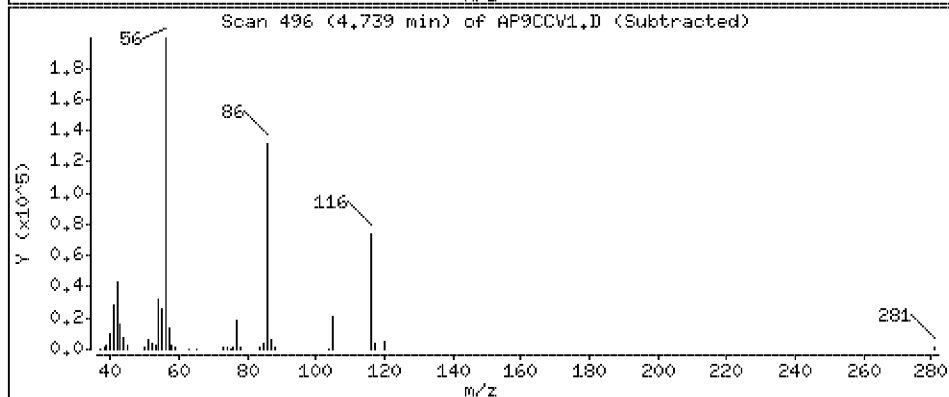
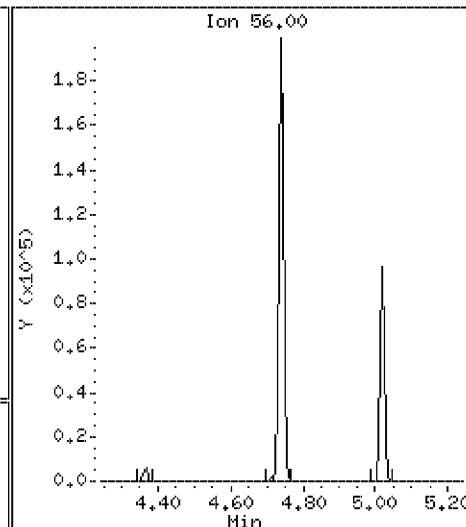
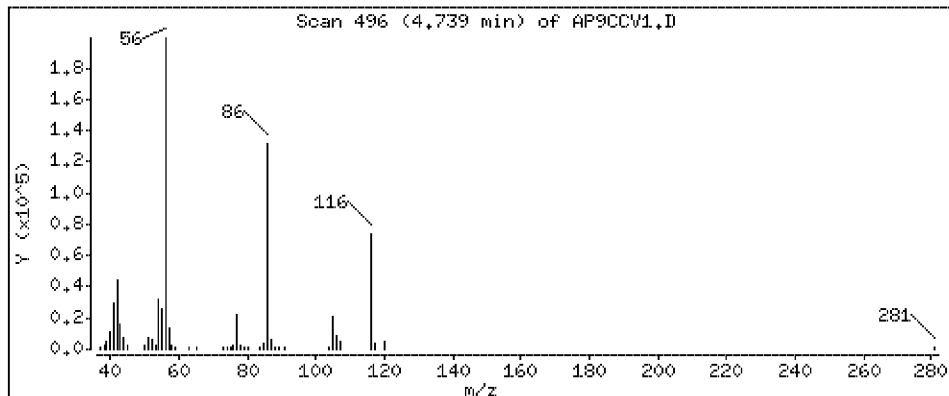
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

27 N-Nitrosomorpholine

Concentration: 45.2 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

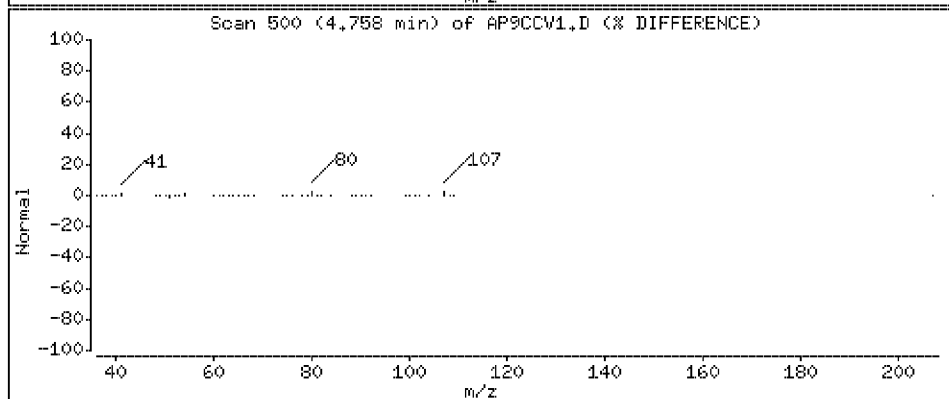
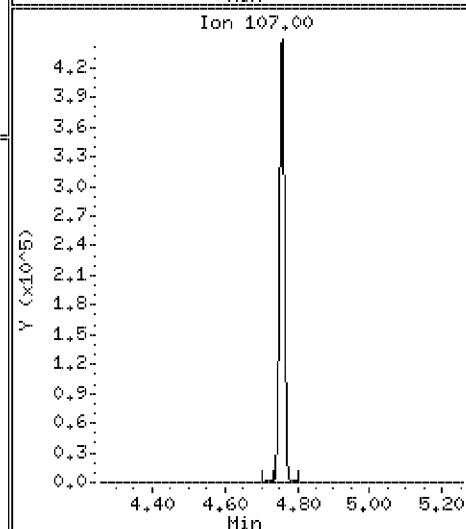
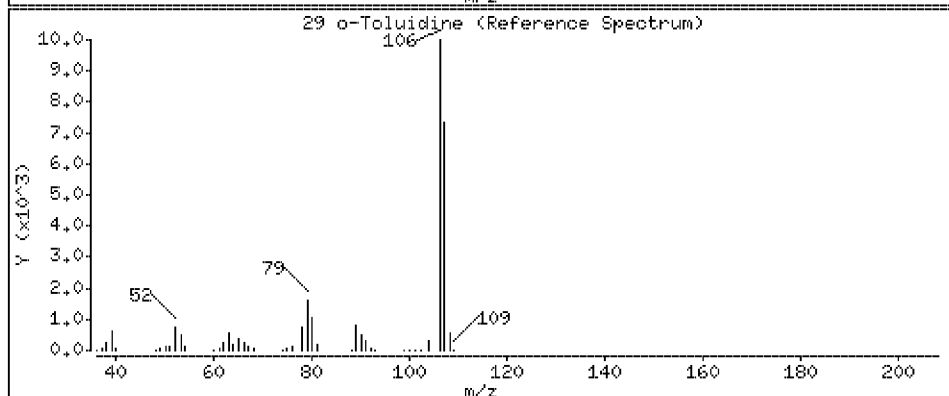
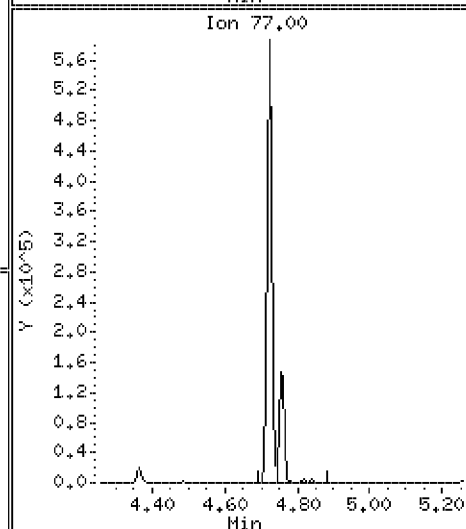
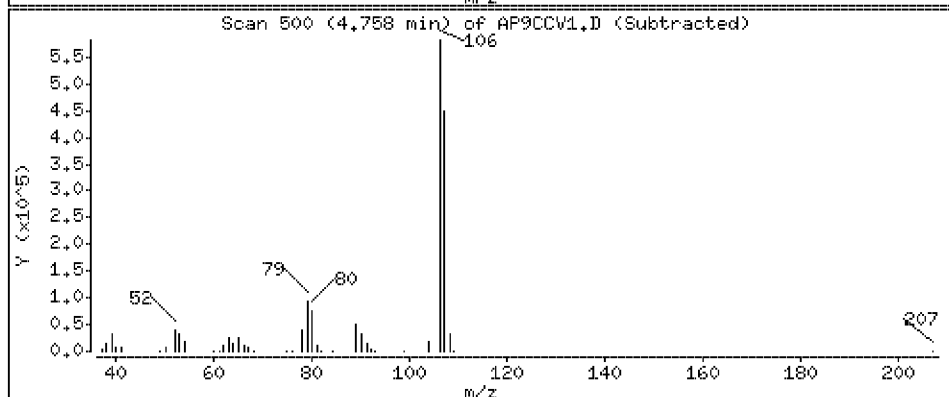
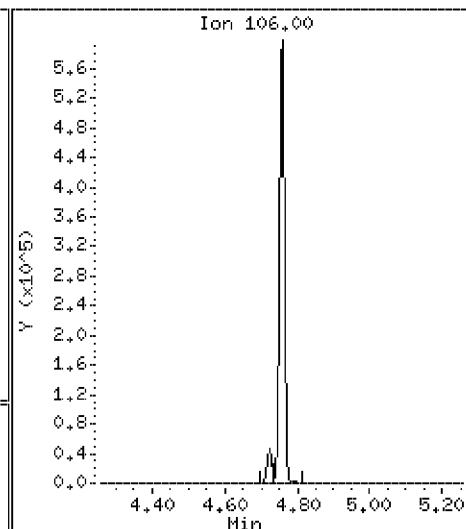
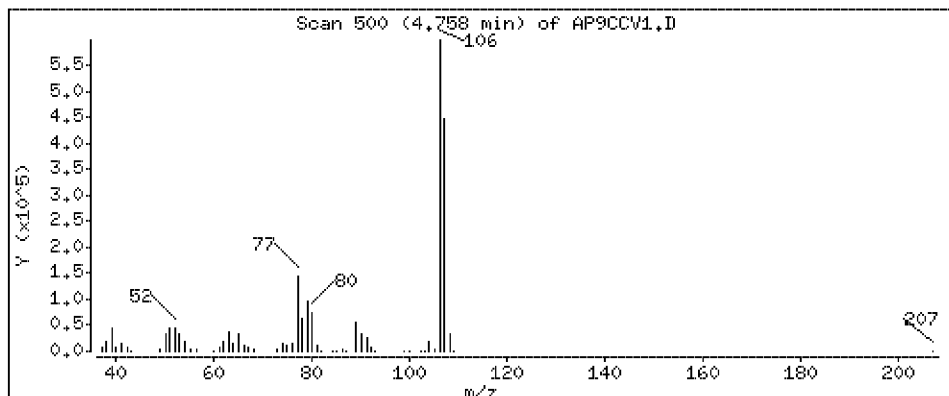
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

29 o-Toluidine

Concentration: 43.7 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

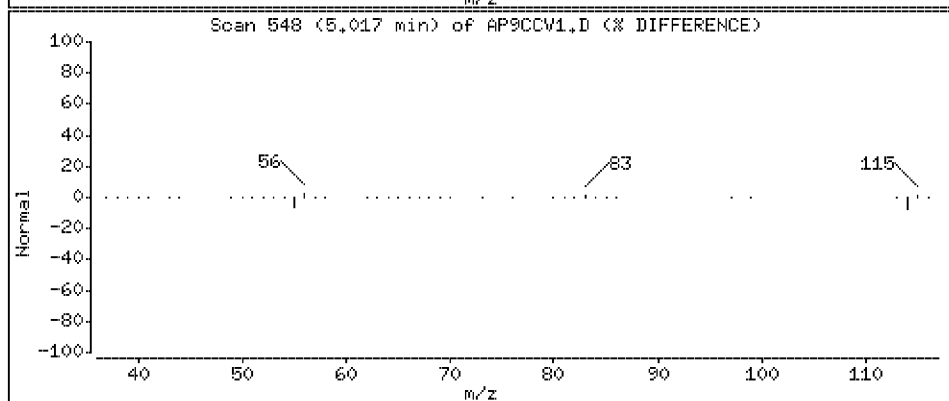
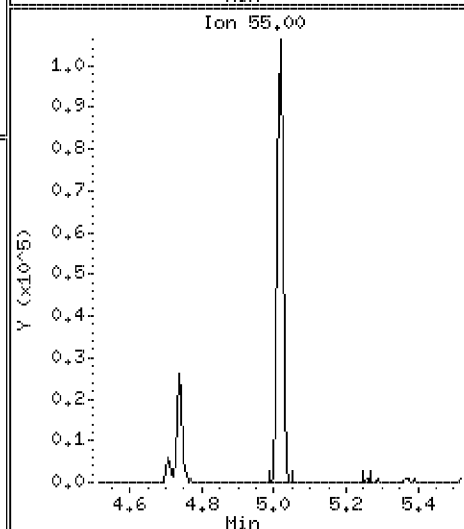
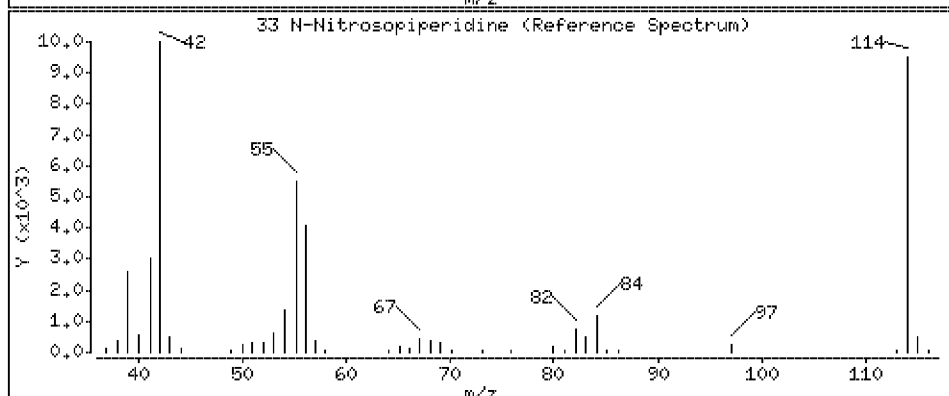
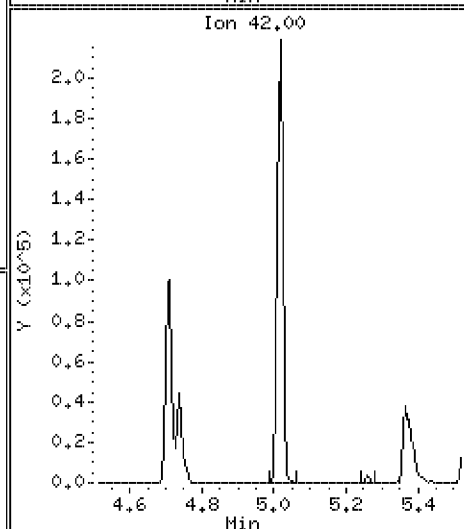
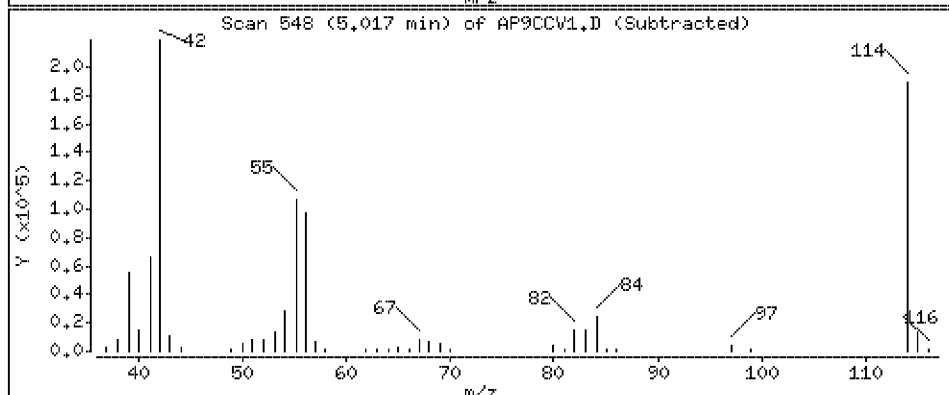
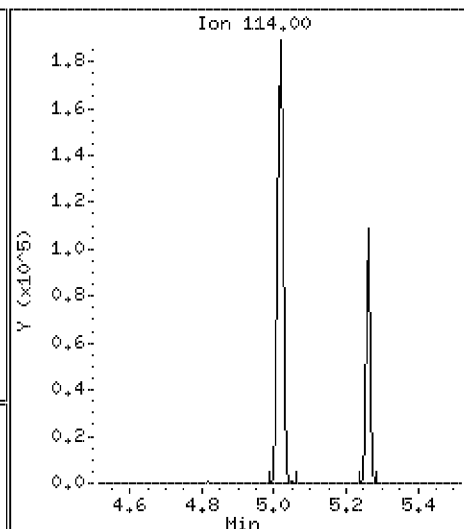
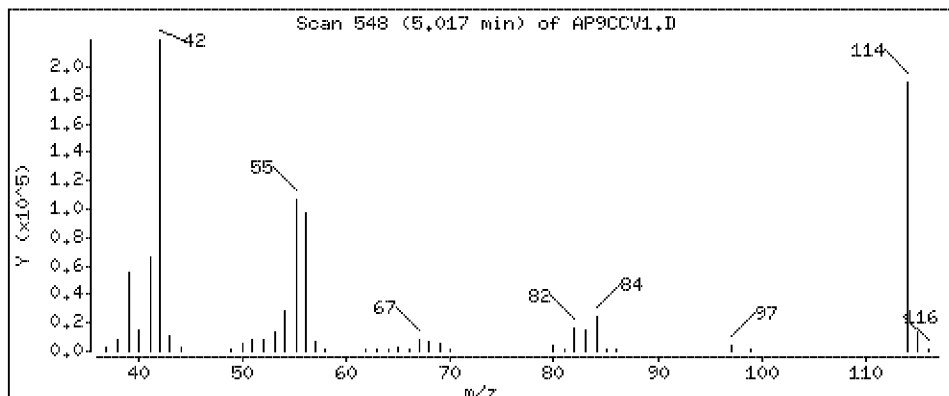
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

33 N-Nitrosopiperidine

Concentration: 46.7 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

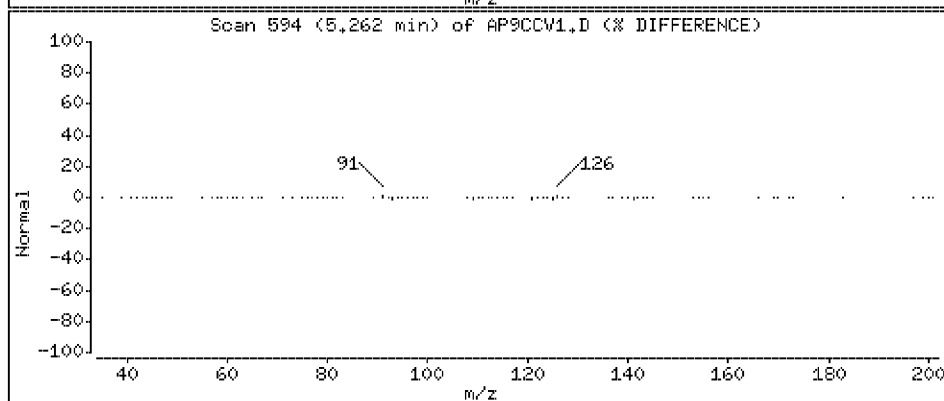
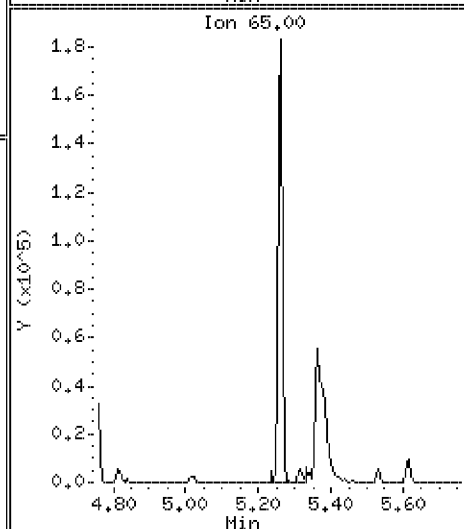
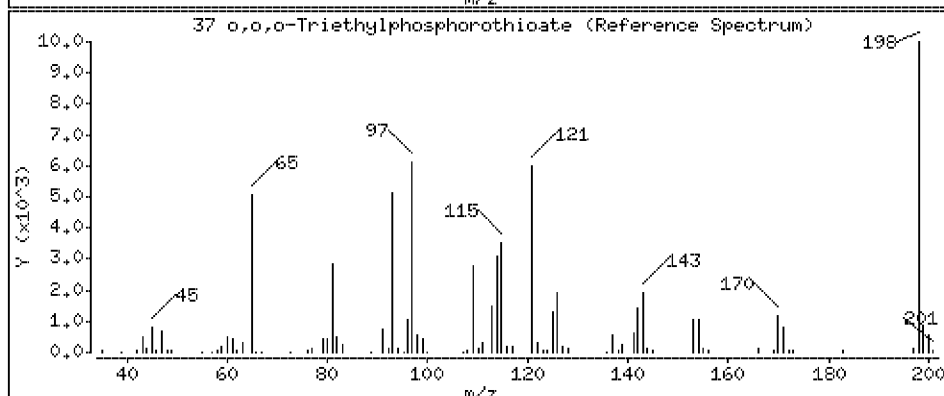
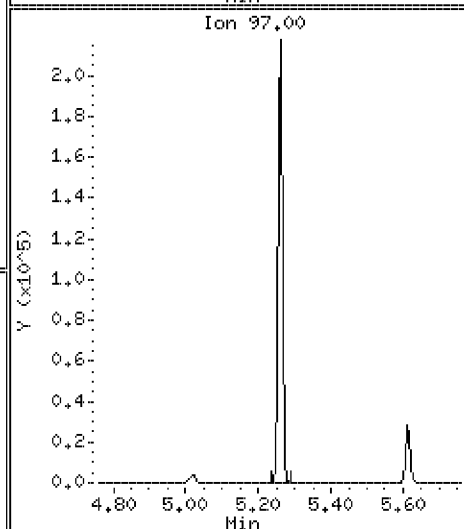
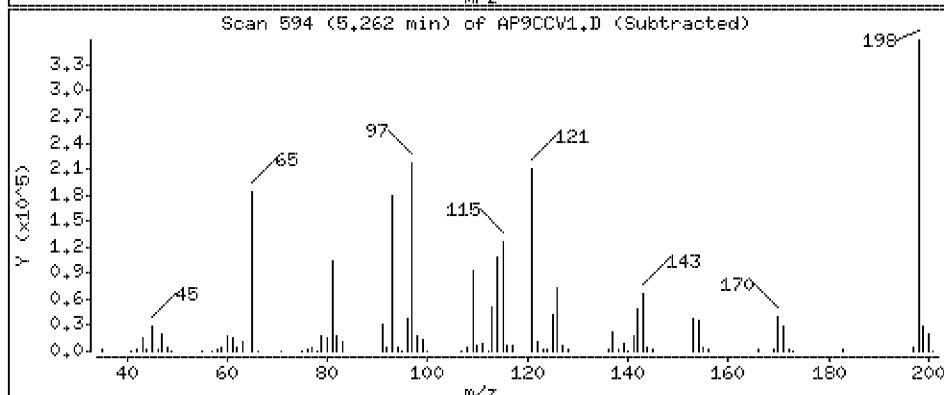
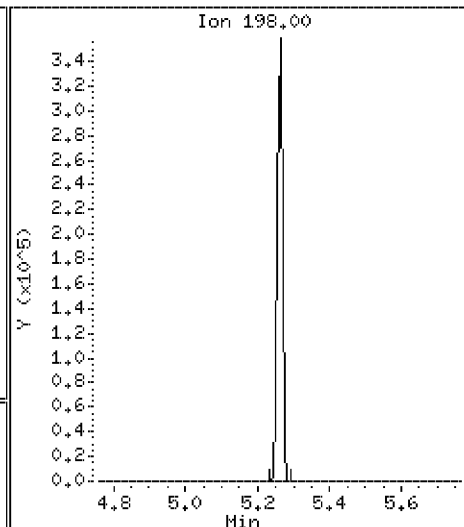
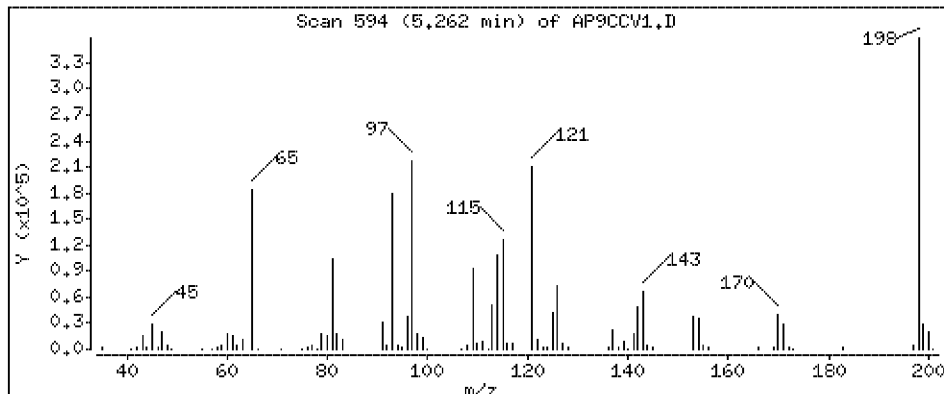
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

37 o,o,o-Triethylphosphorothioate

Concentration: 47.2 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

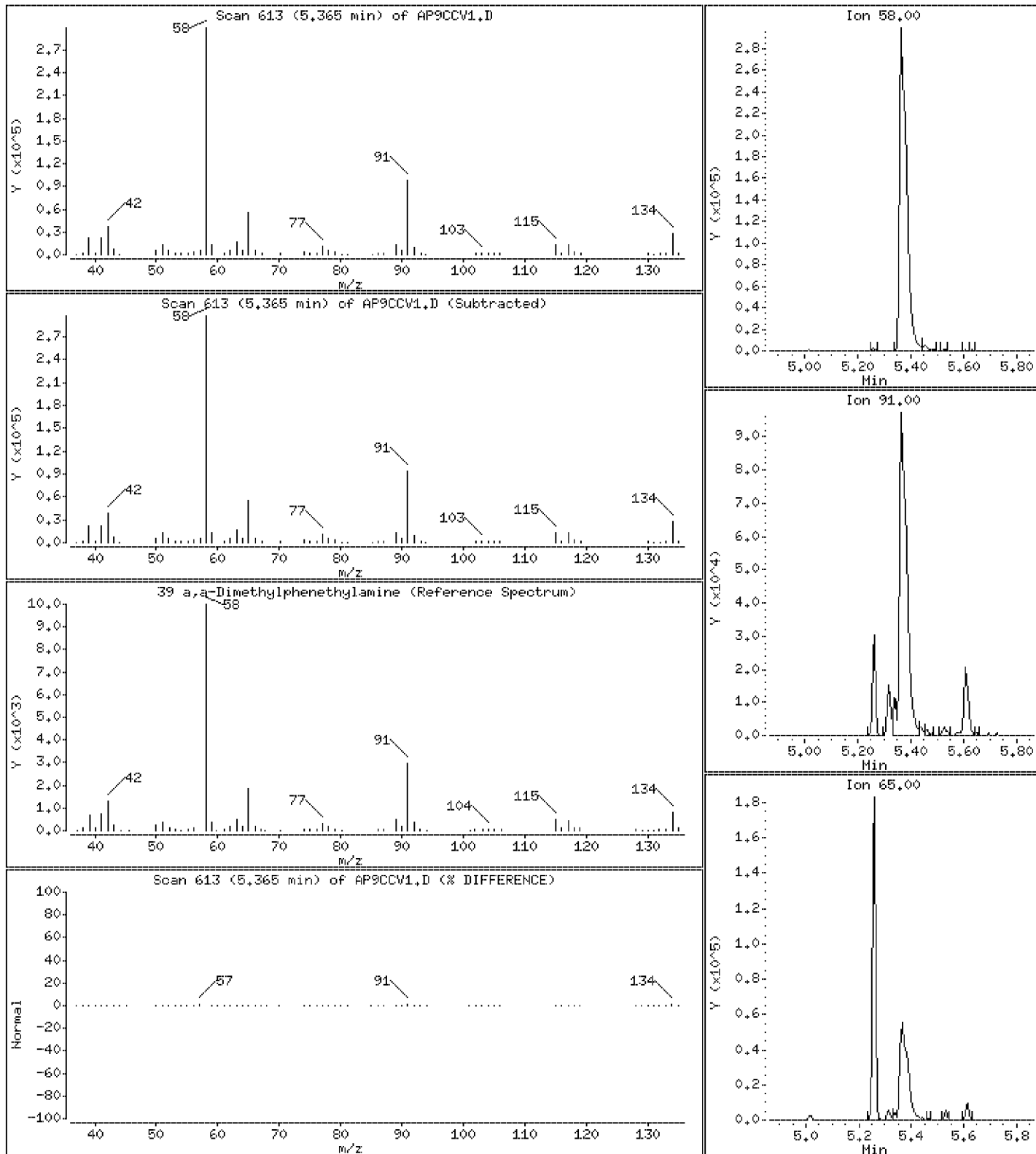
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

39 a,a-Dimethylphenethylamine

Concentration: 45.7 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

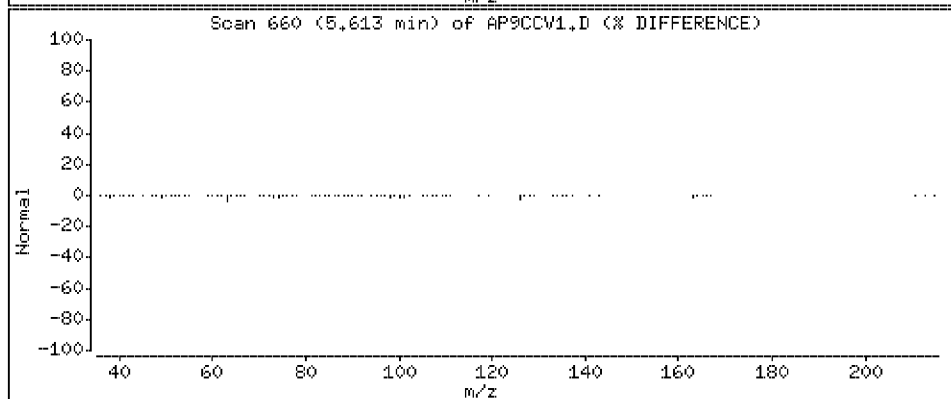
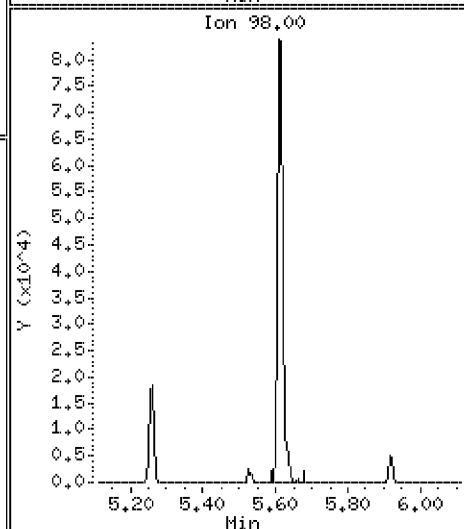
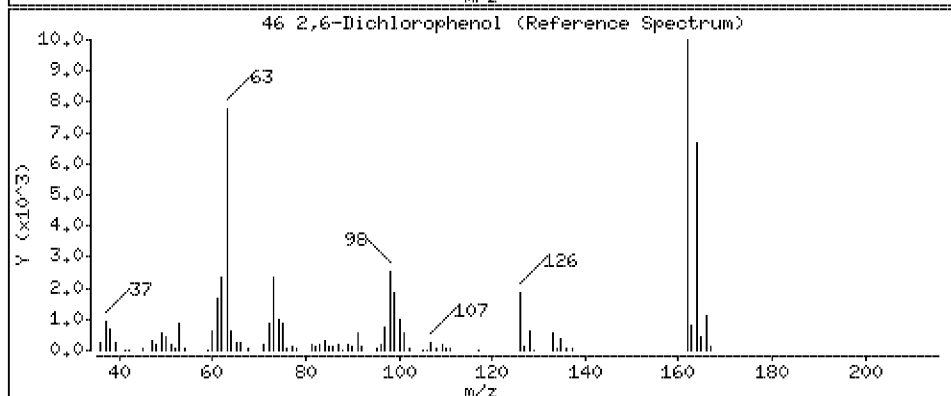
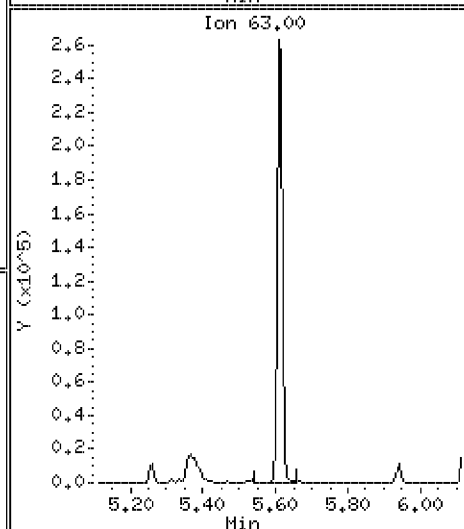
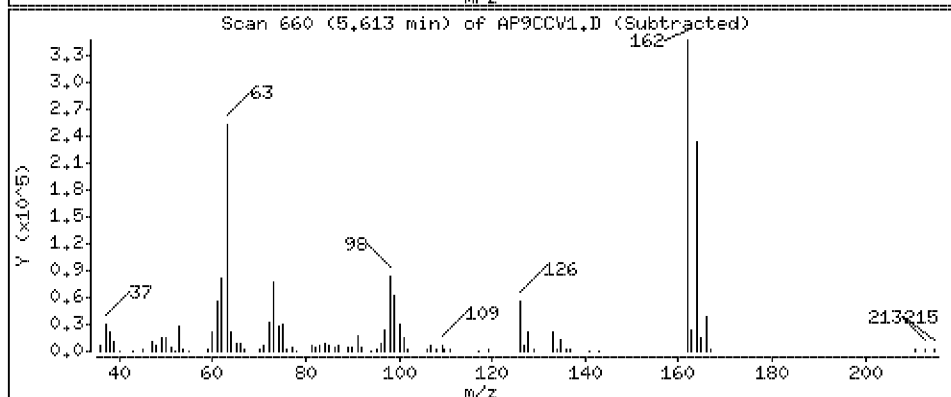
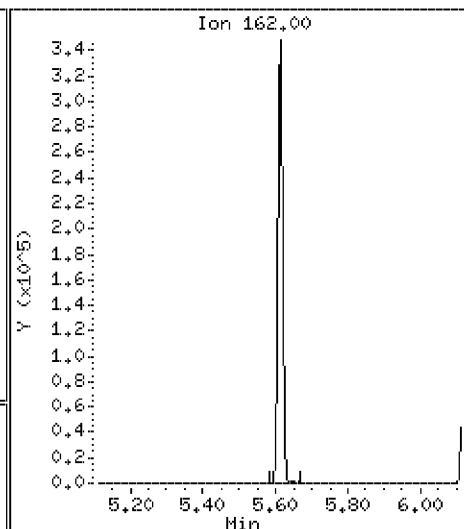
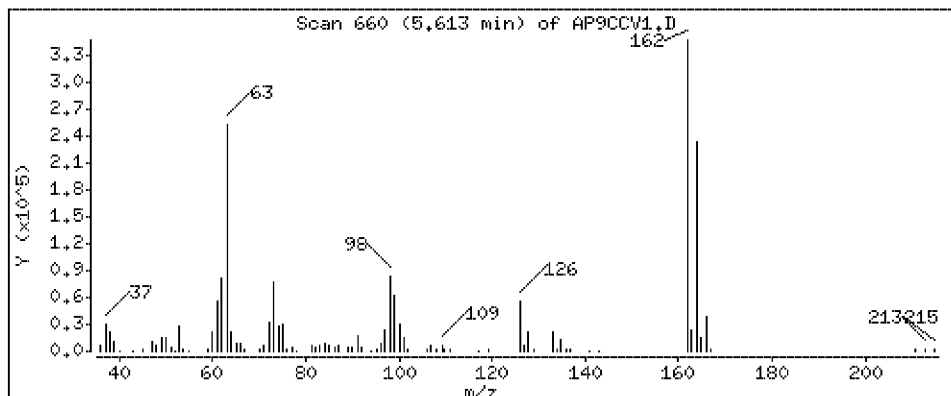
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

46 2,6-Dichlorophenol

Concentration: 46.7 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

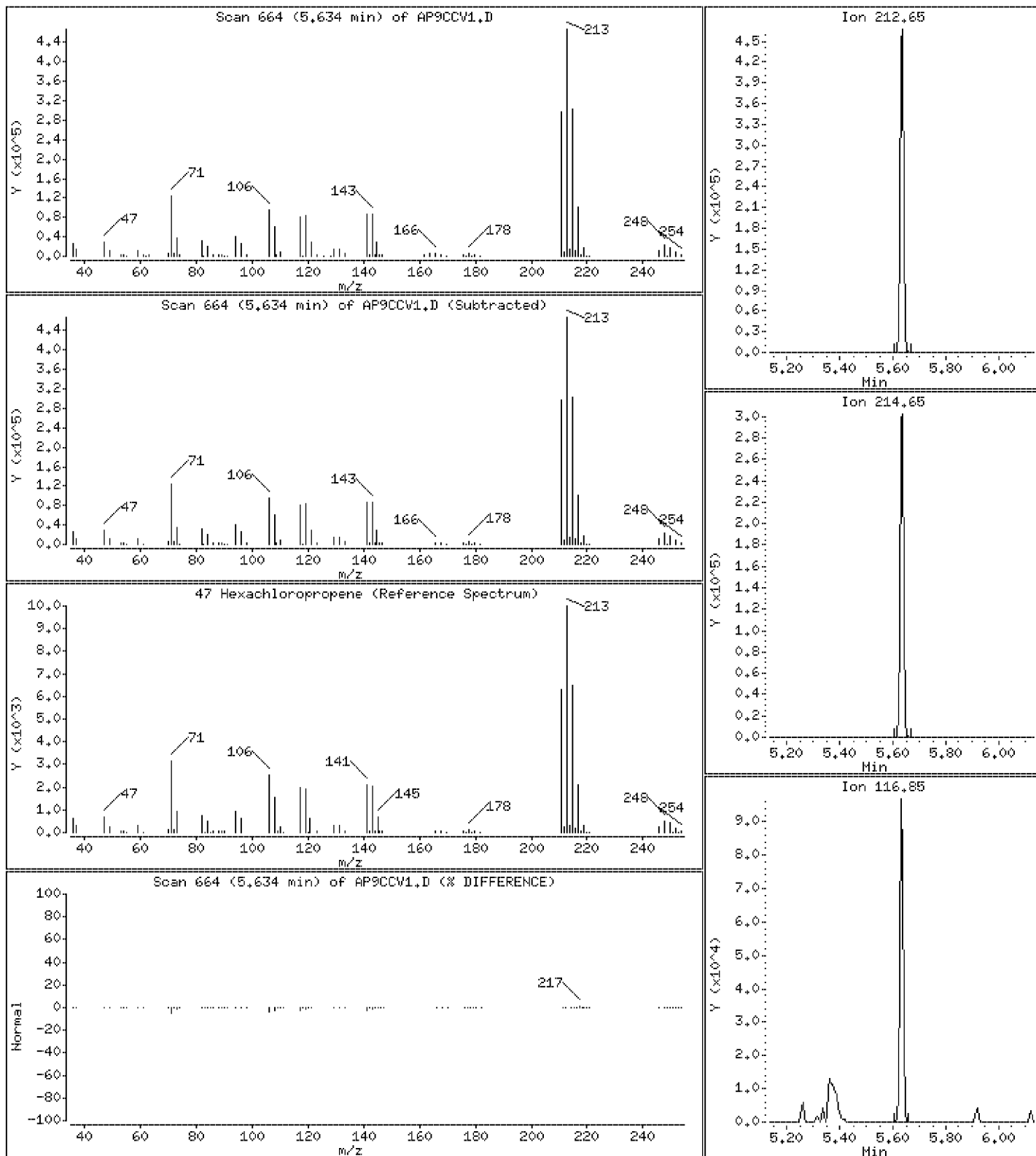
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

47 Hexachloropropene

Concentration: 47.4 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

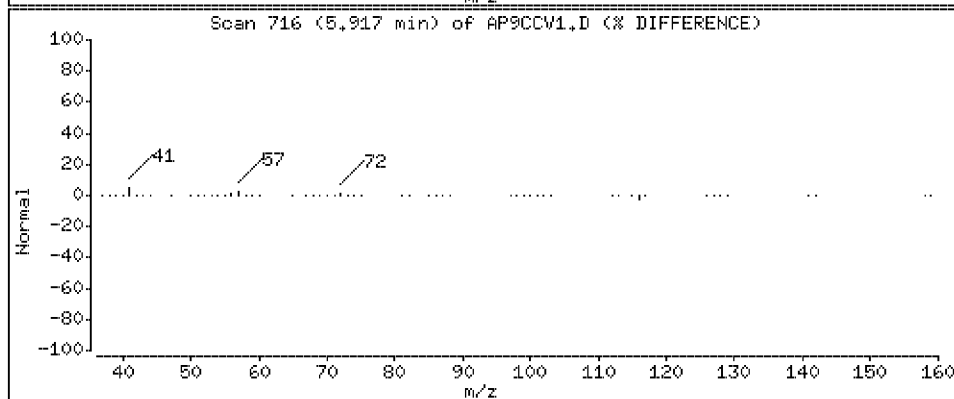
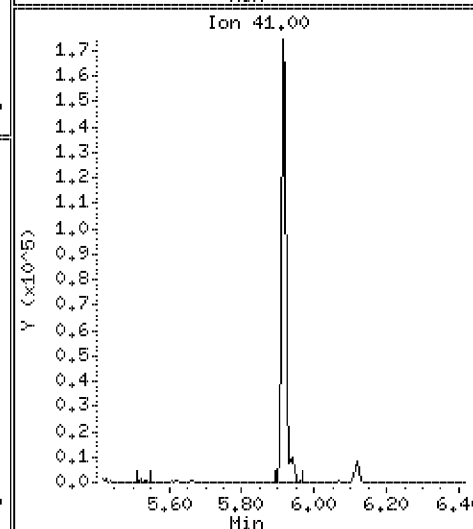
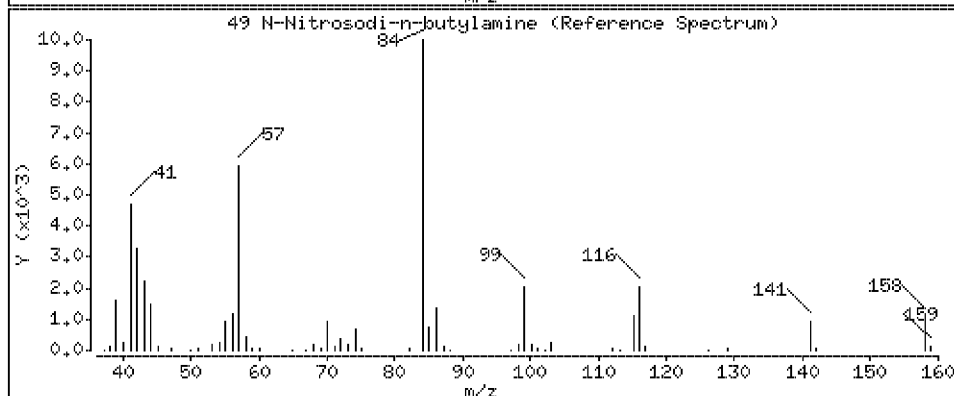
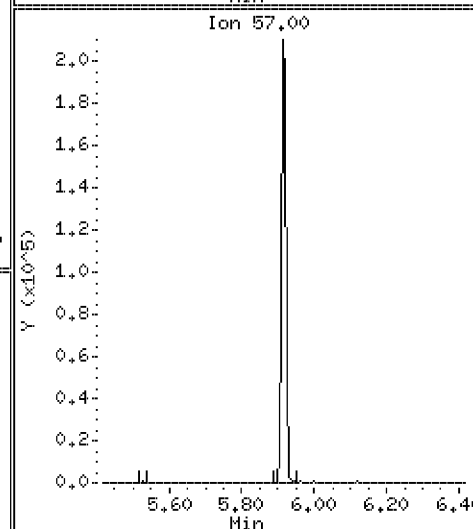
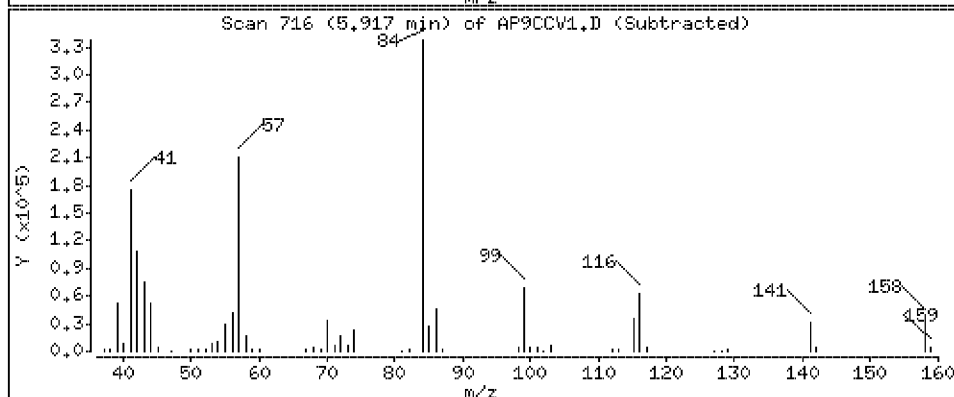
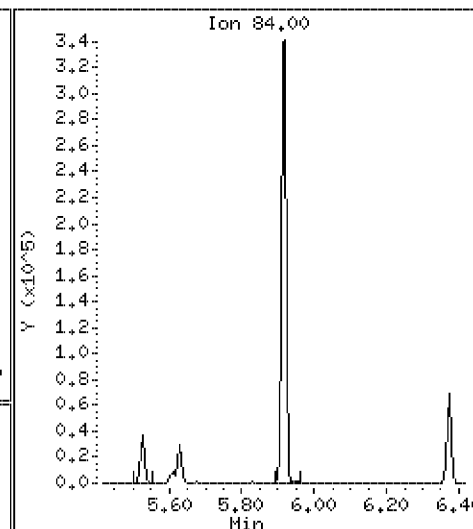
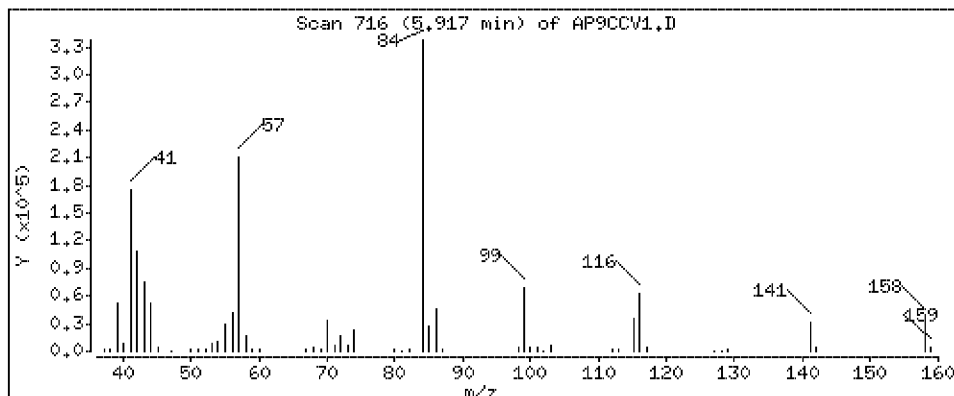
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

49 N-Nitrosodi-n-butylamine

Concentration: 47.0 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

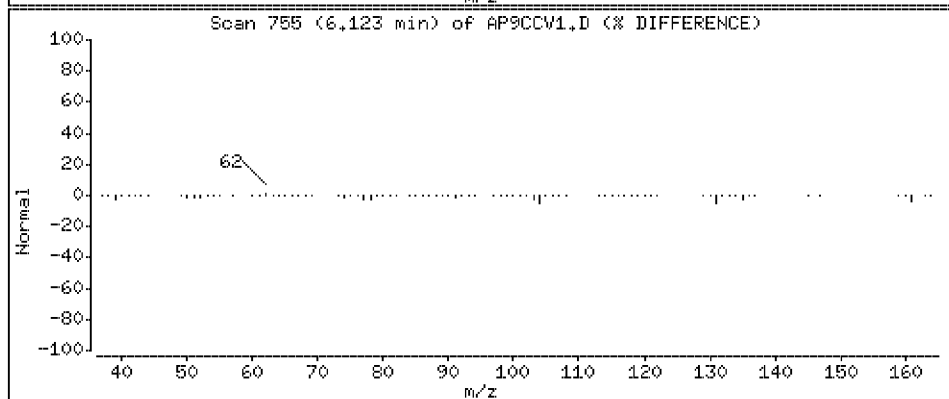
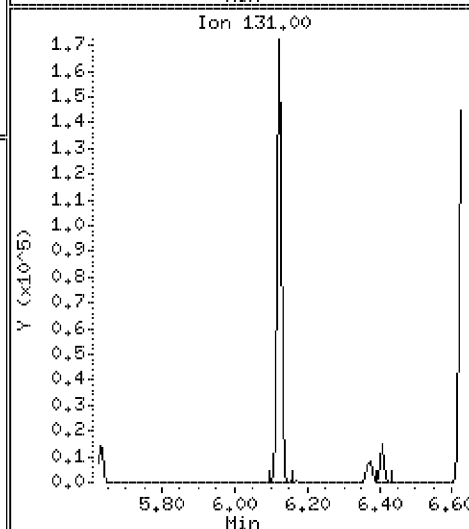
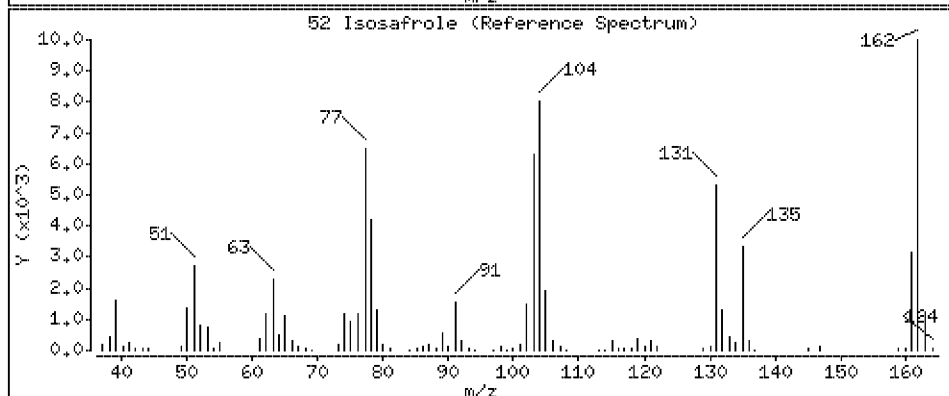
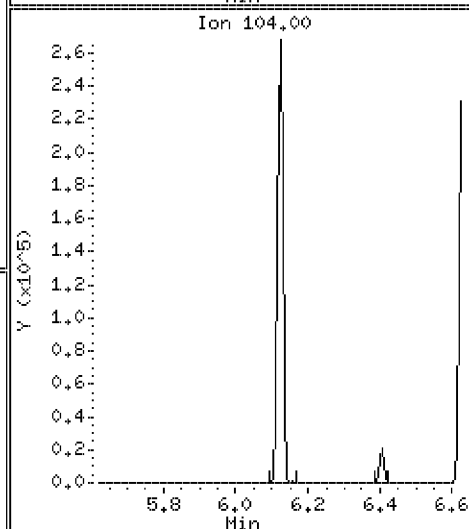
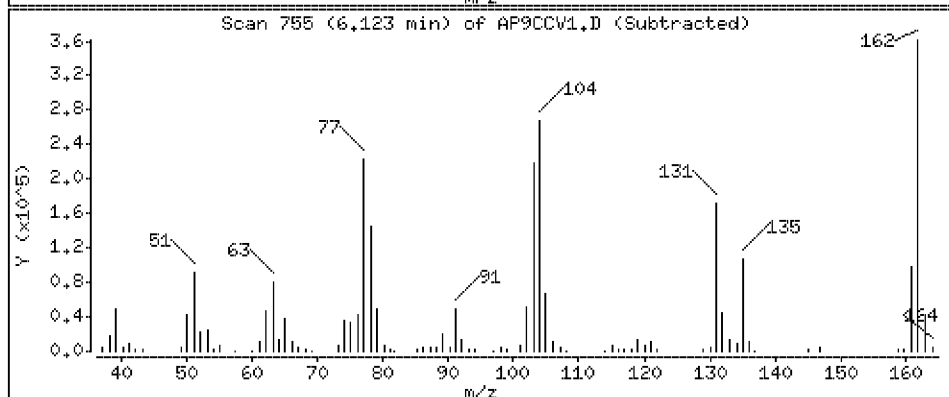
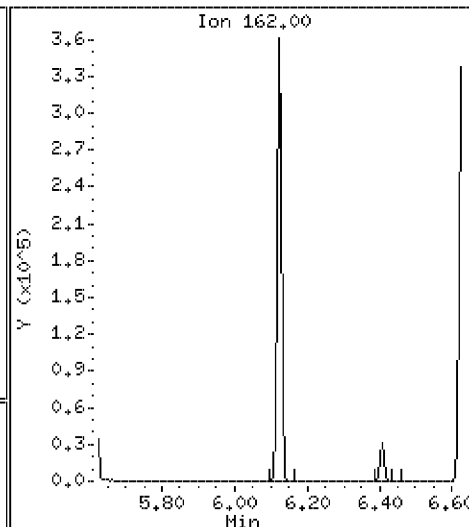
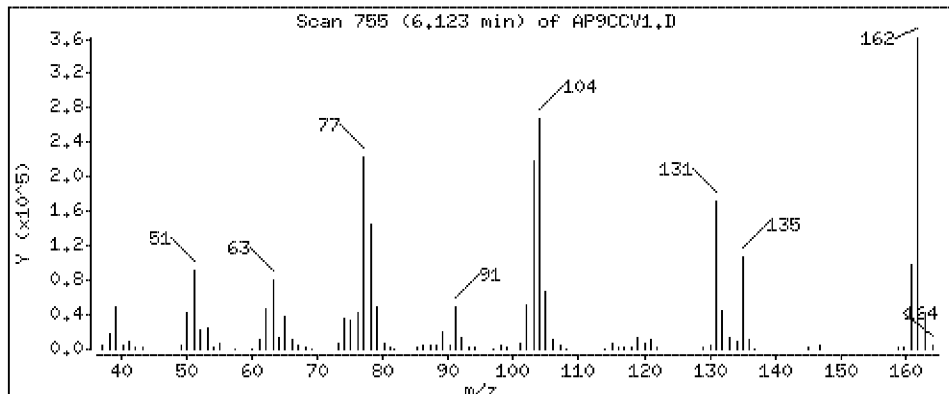
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

52 Isosafrole

Concentration: 46.1 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

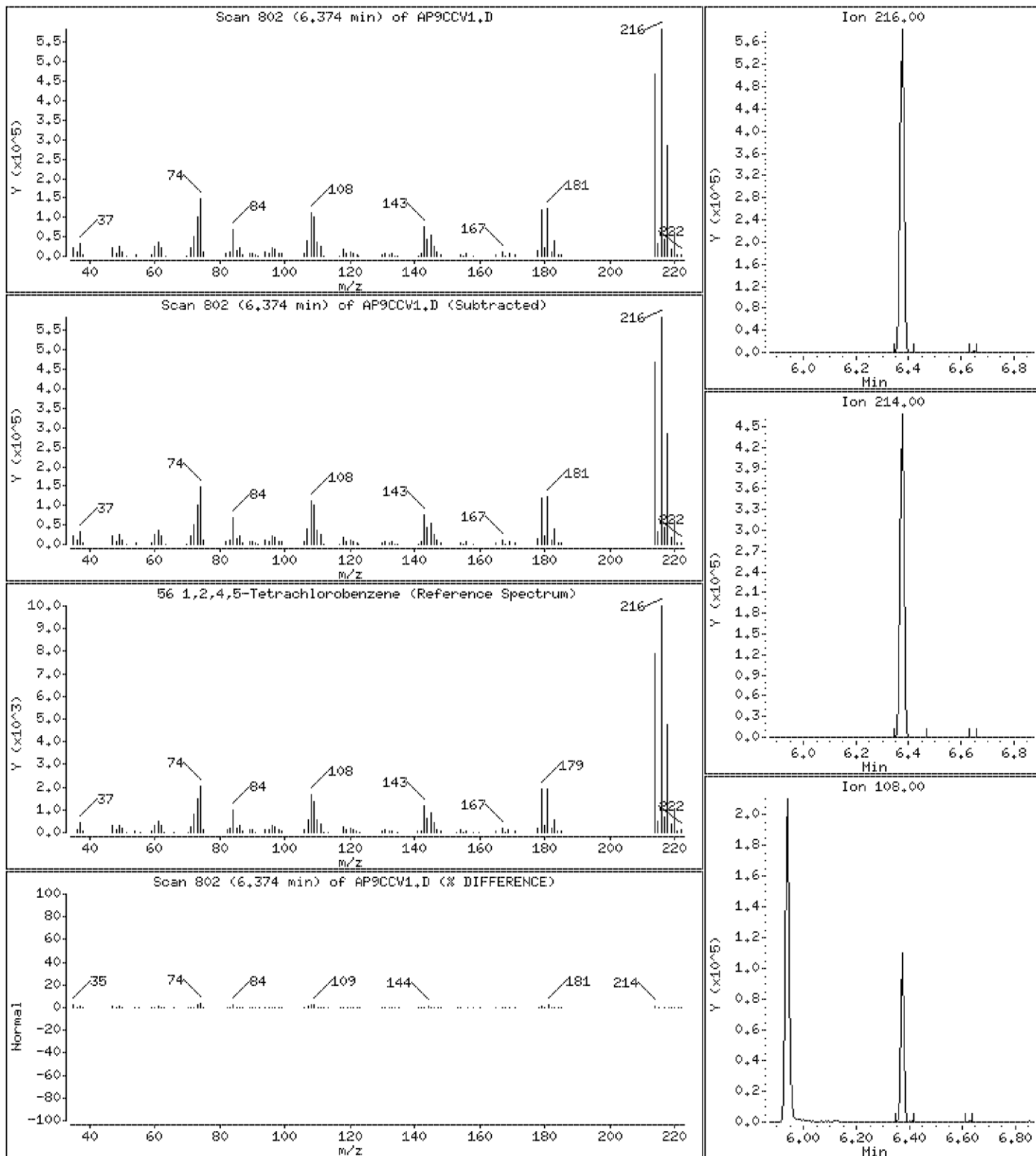
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

56 1,2,4,5-Tetrachlorobenzene

Concentration: 46.6 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

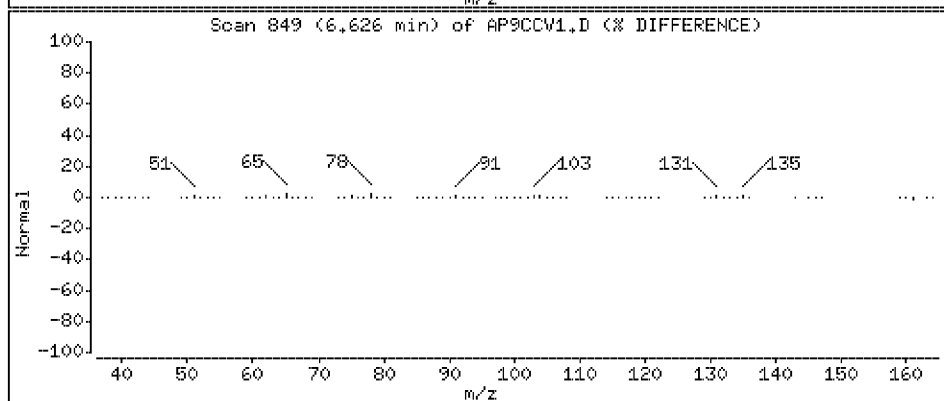
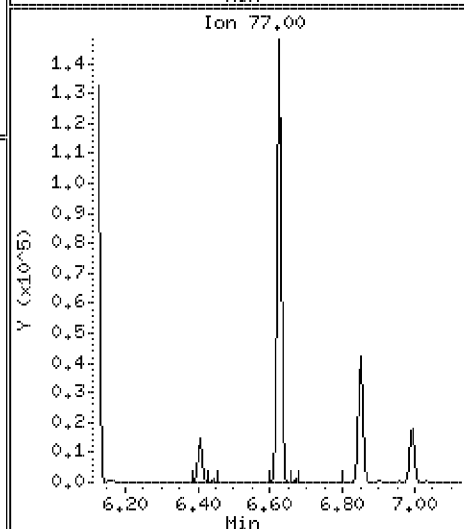
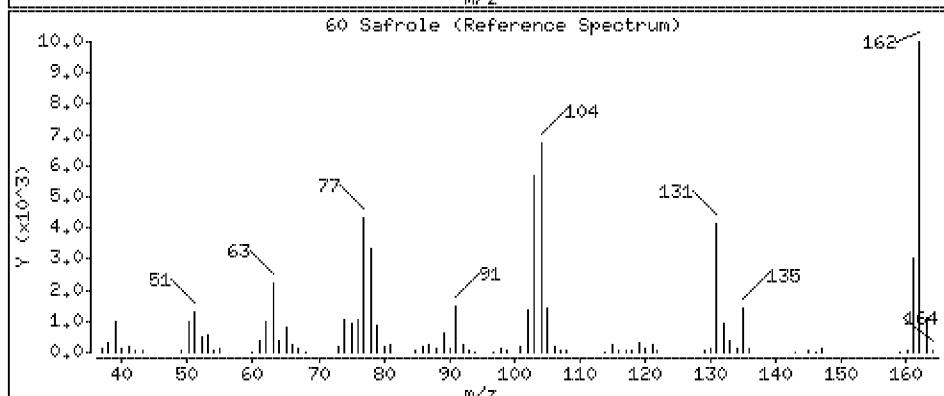
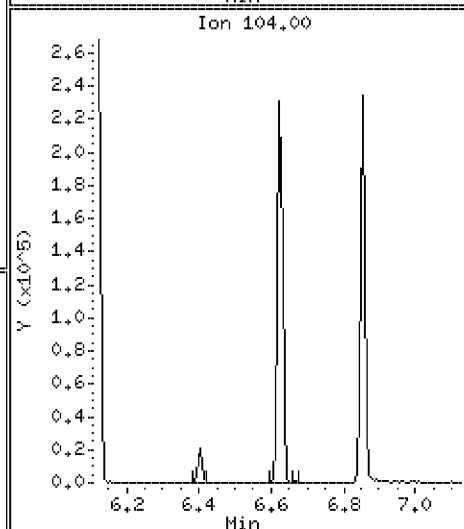
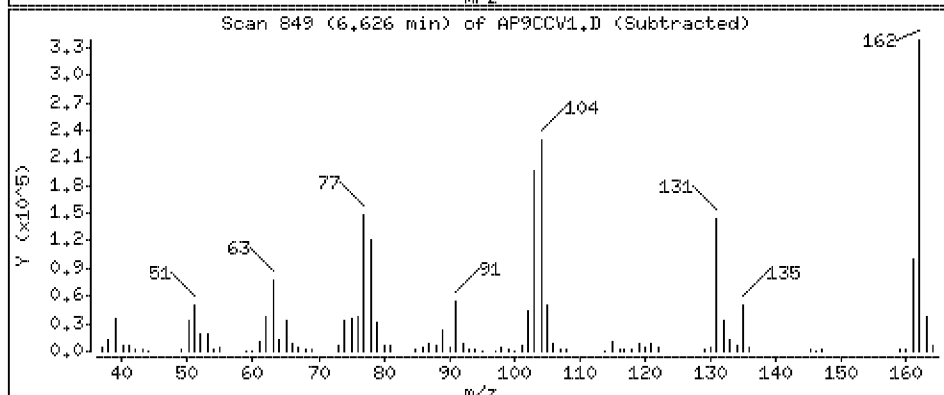
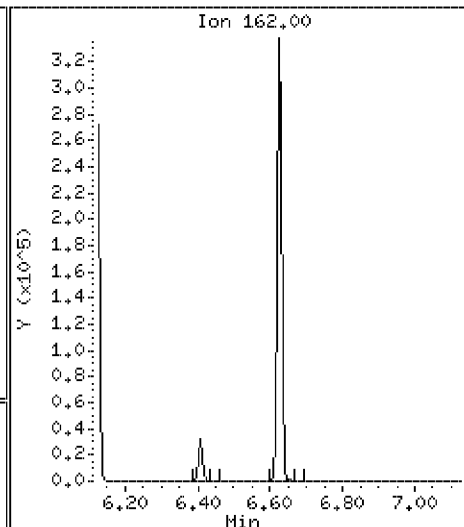
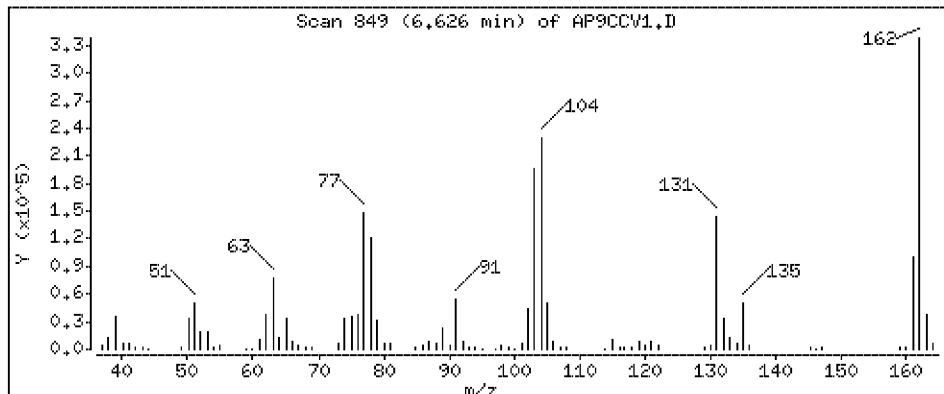
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

60 Safrole

Concentration: 47.2 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

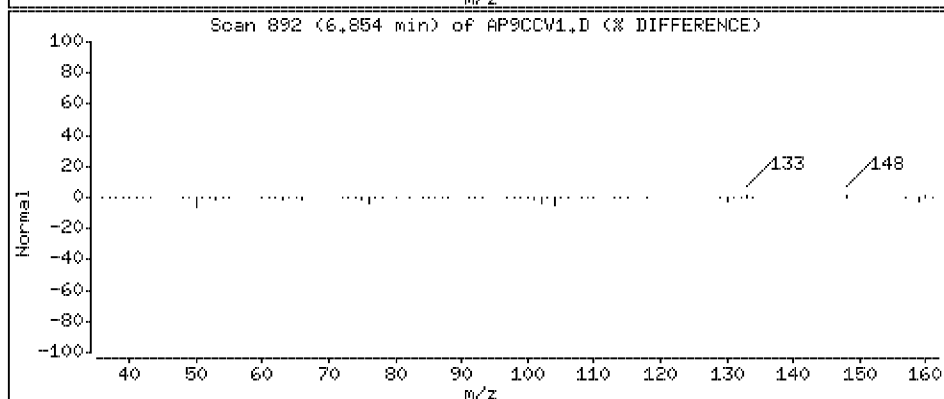
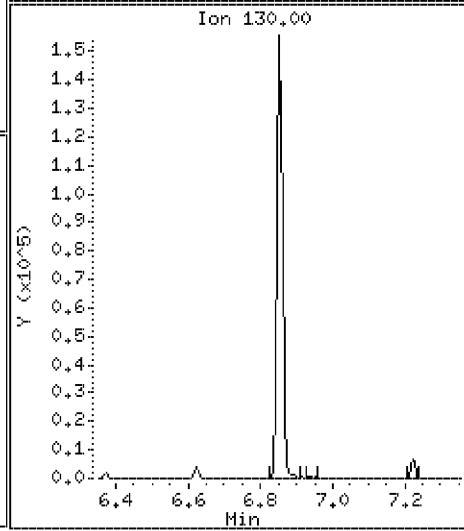
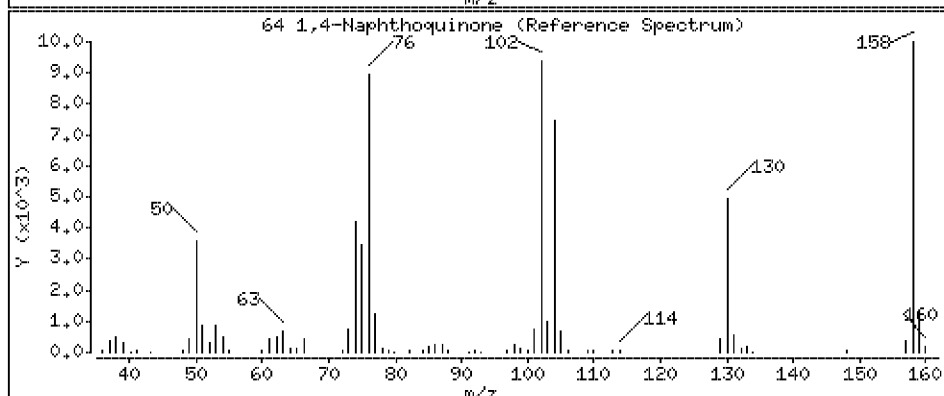
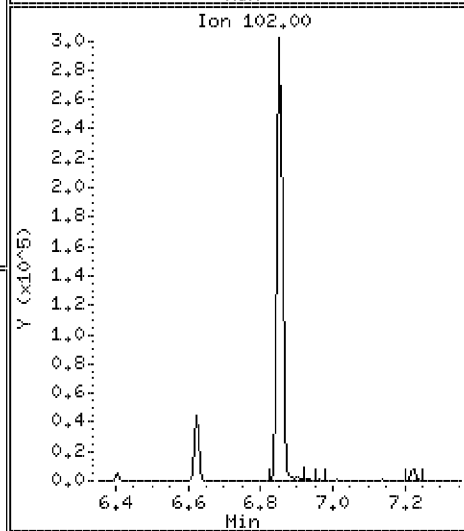
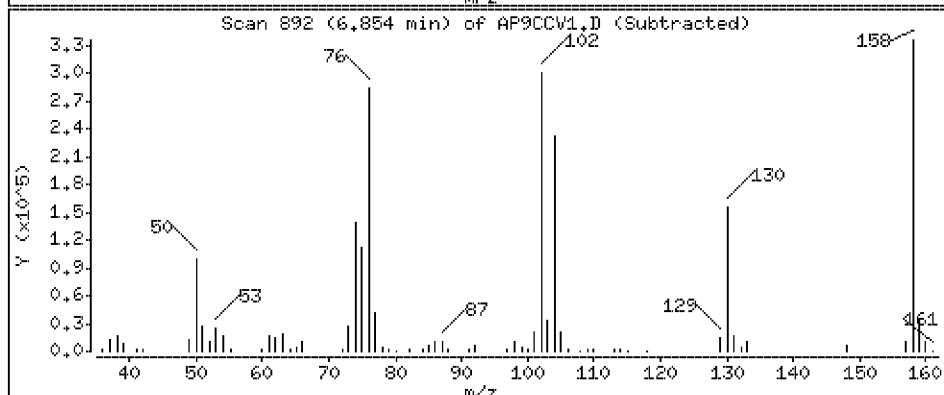
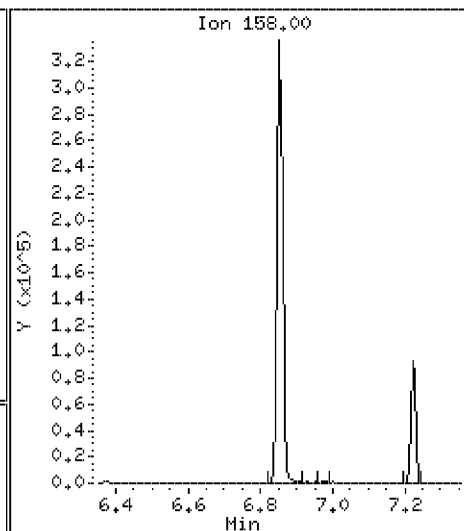
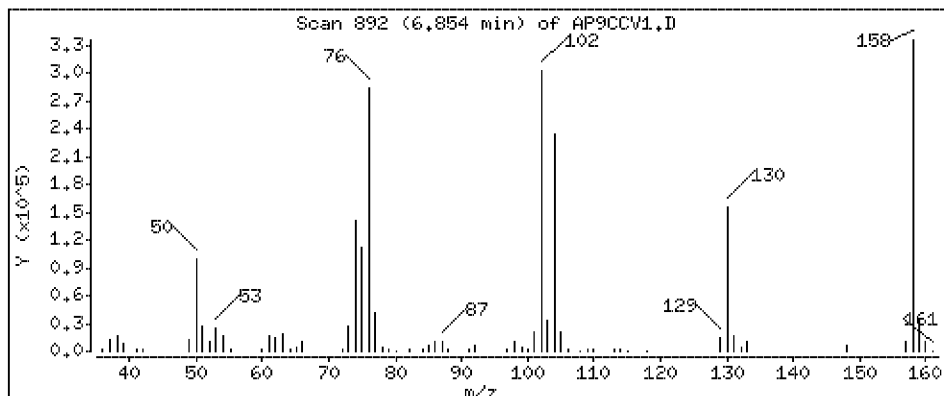
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

64 1,4-Naphthoquinone

Concentration: 48.7 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

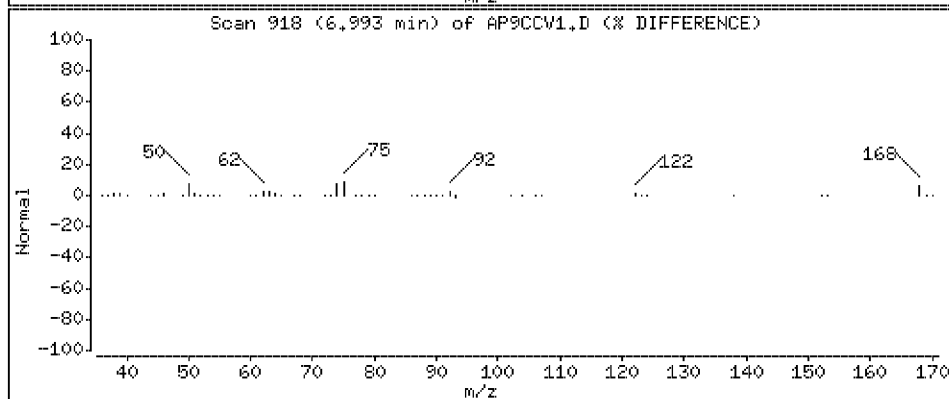
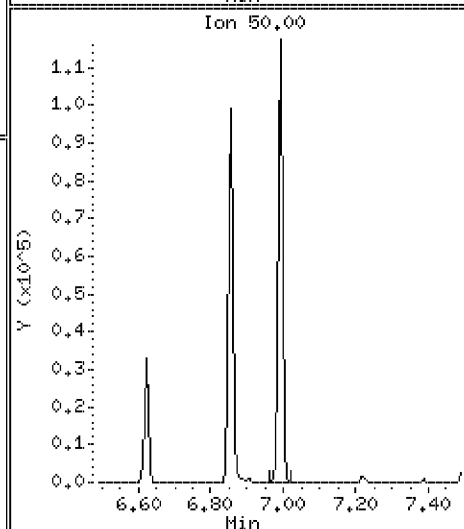
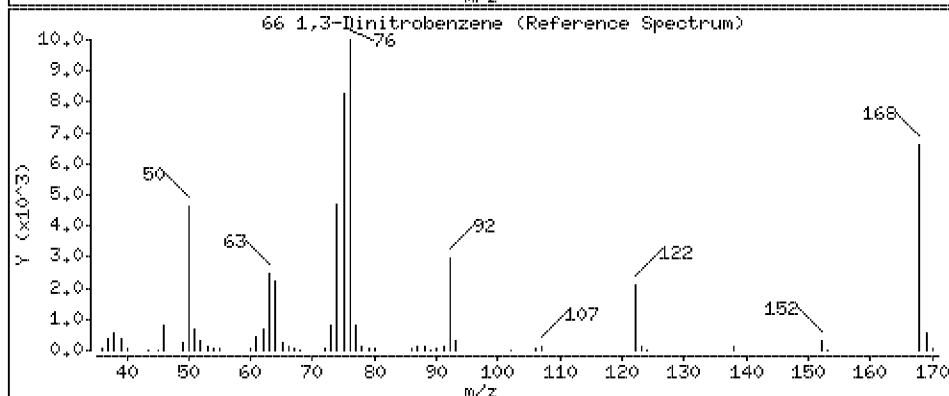
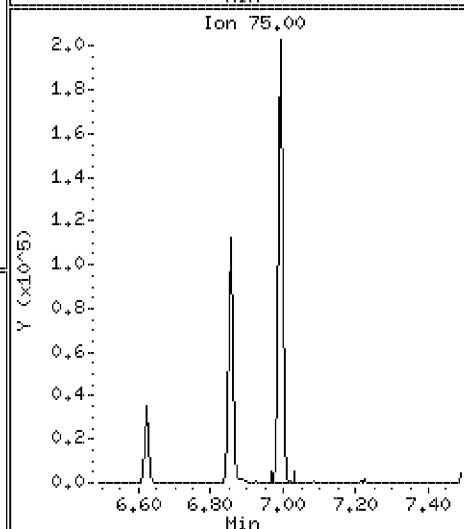
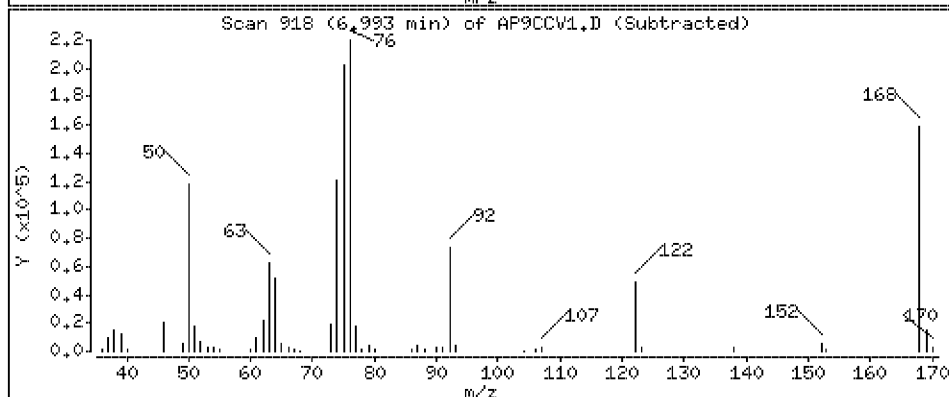
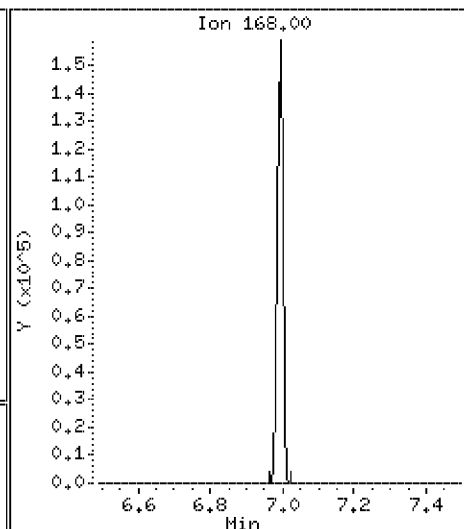
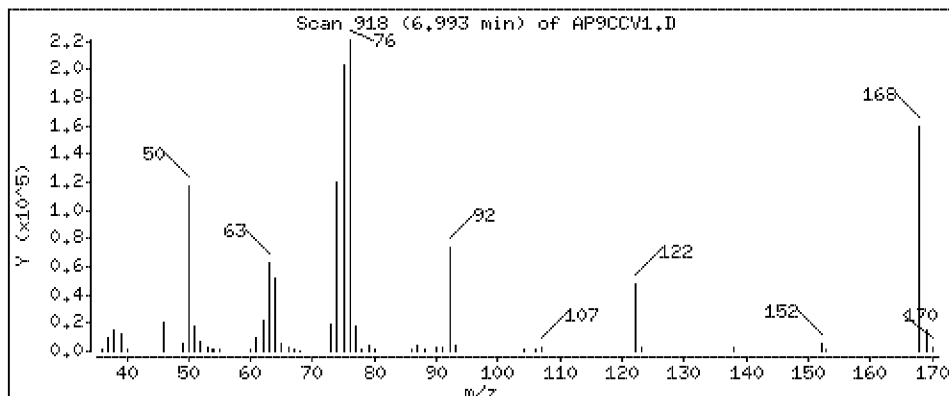
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

66 1,3-Dinitrobenzene

Concentration: 48.2 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

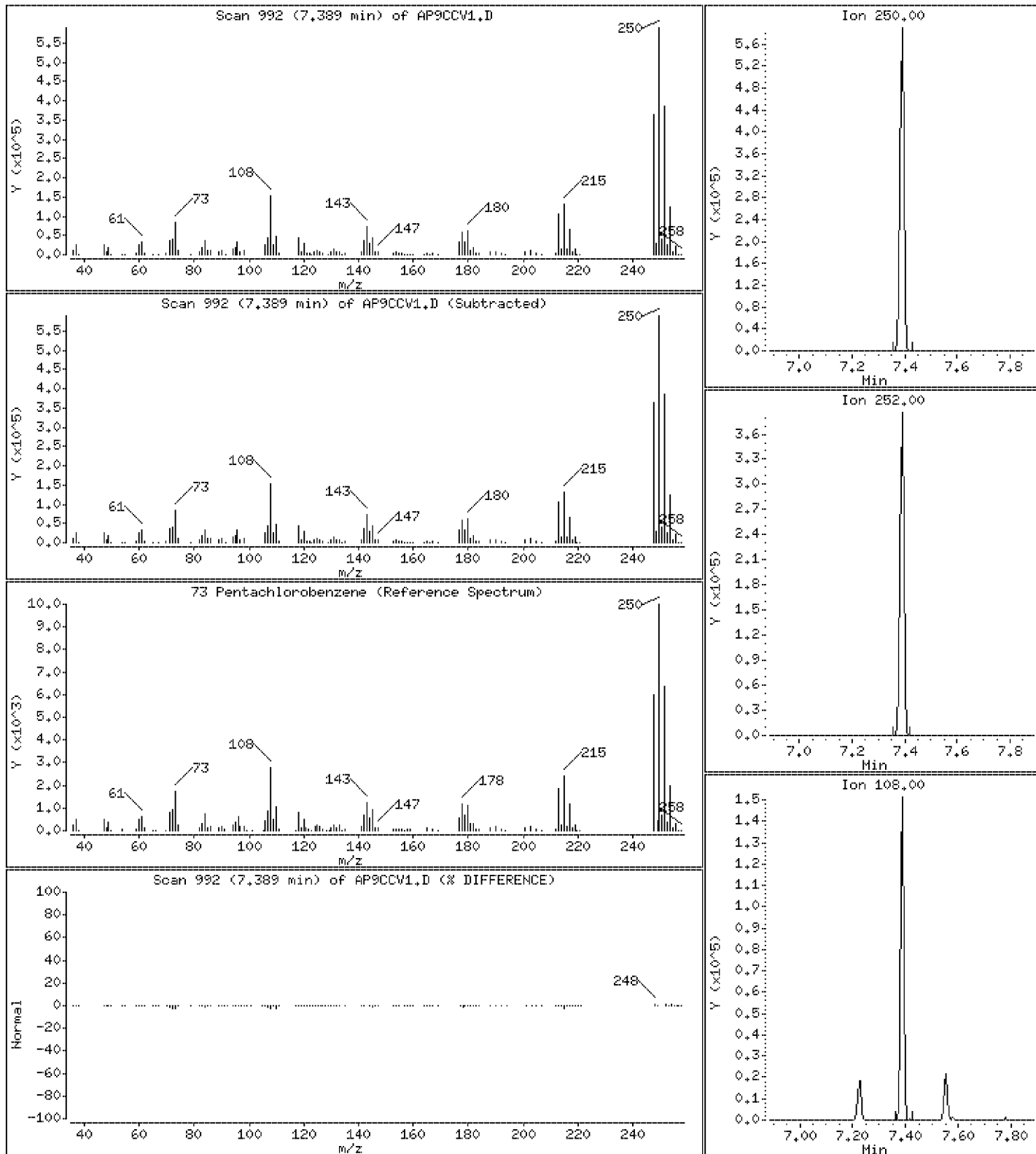
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

73 Pentachlorobenzene

Concentration: 46.8 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

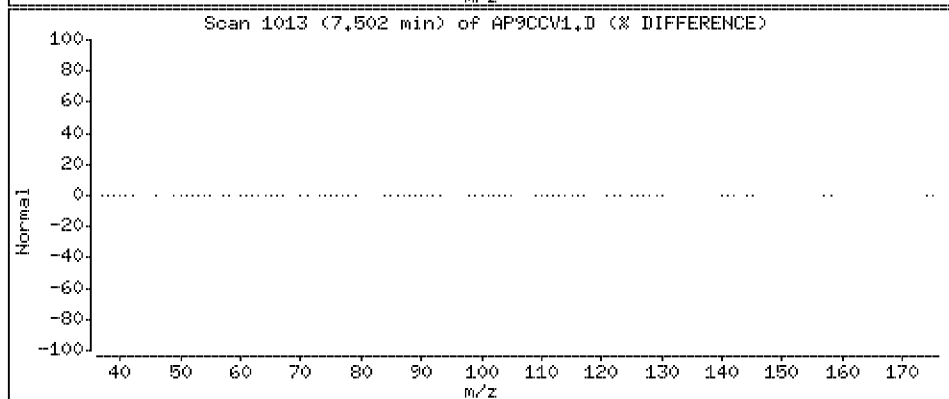
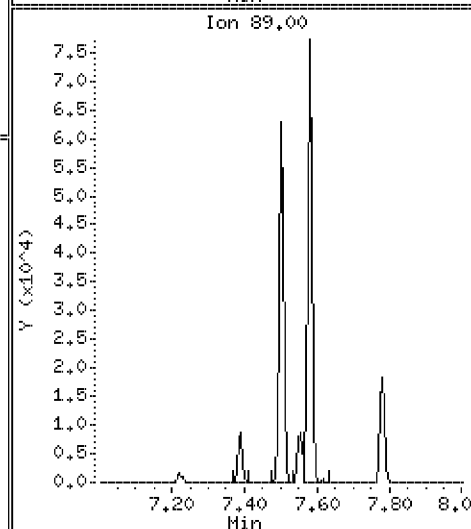
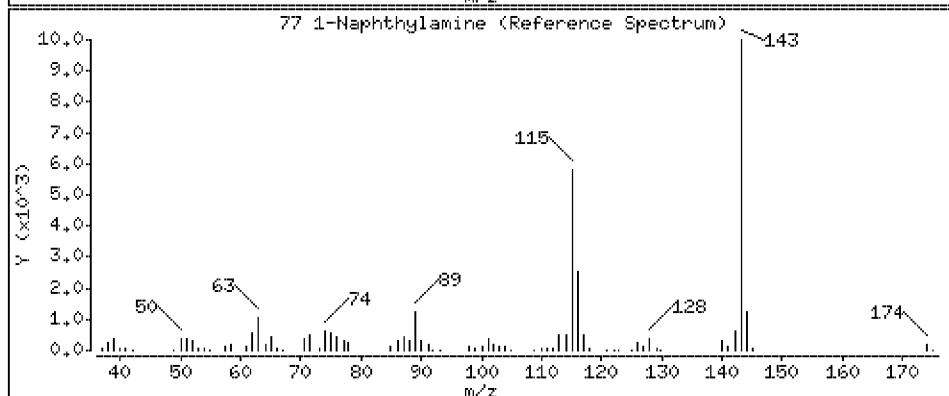
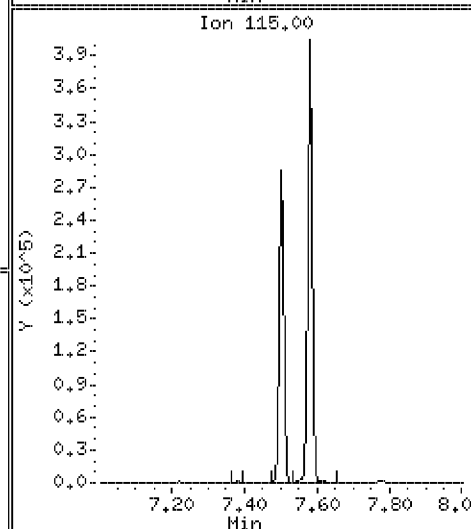
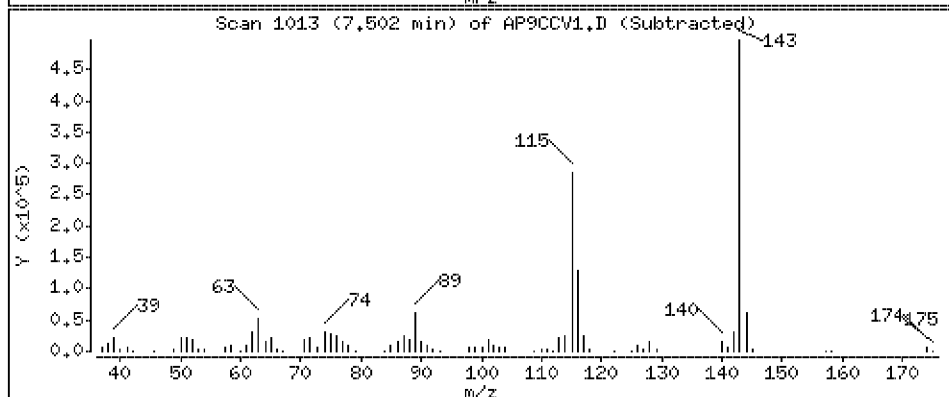
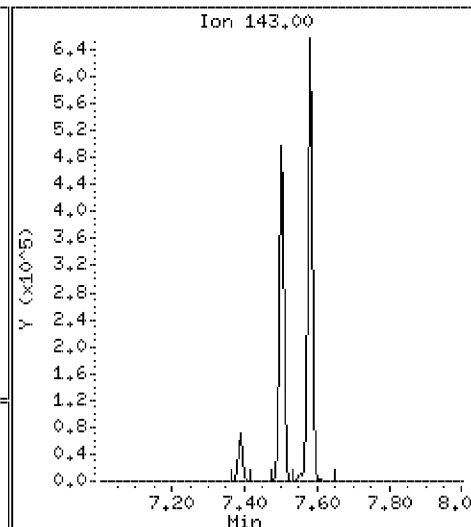
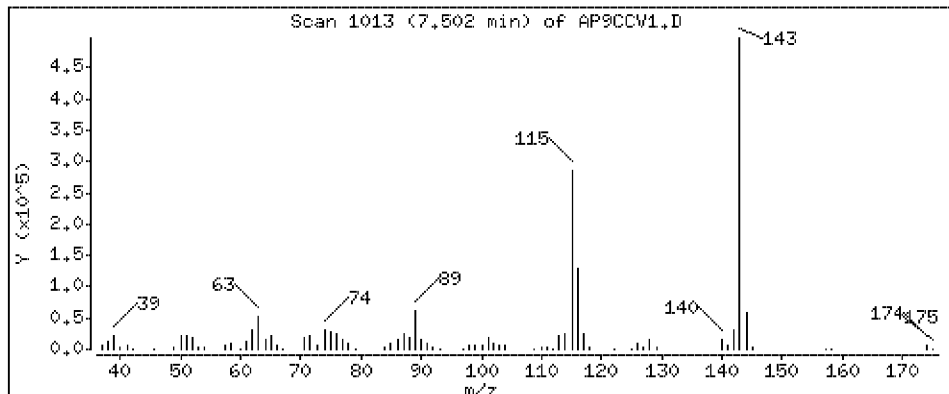
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

77 1-Naphthylamine

Concentration: 45.7 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

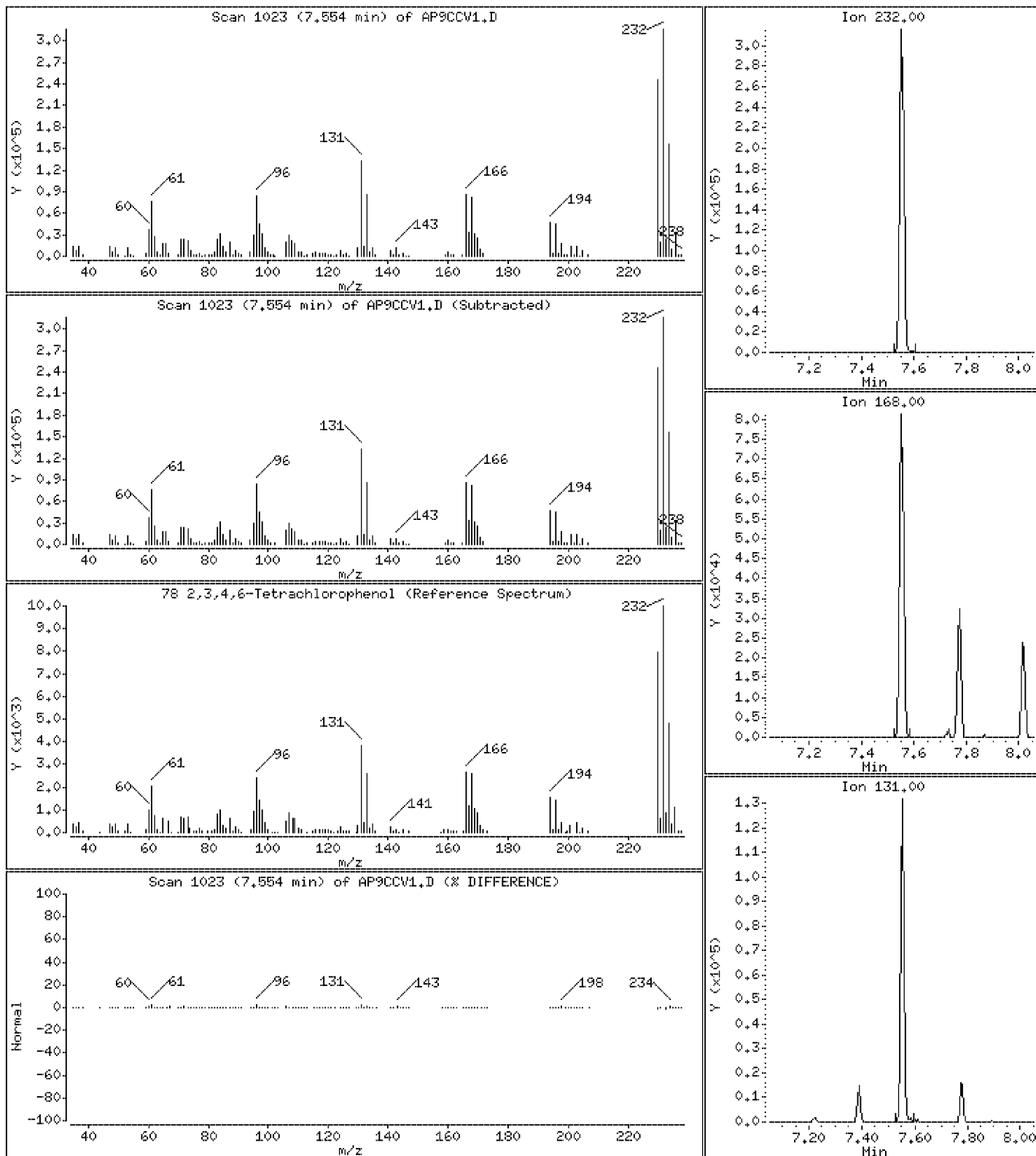
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

78 2,3,4,6-Tetrachlorophenol

Concentration: 48.7 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

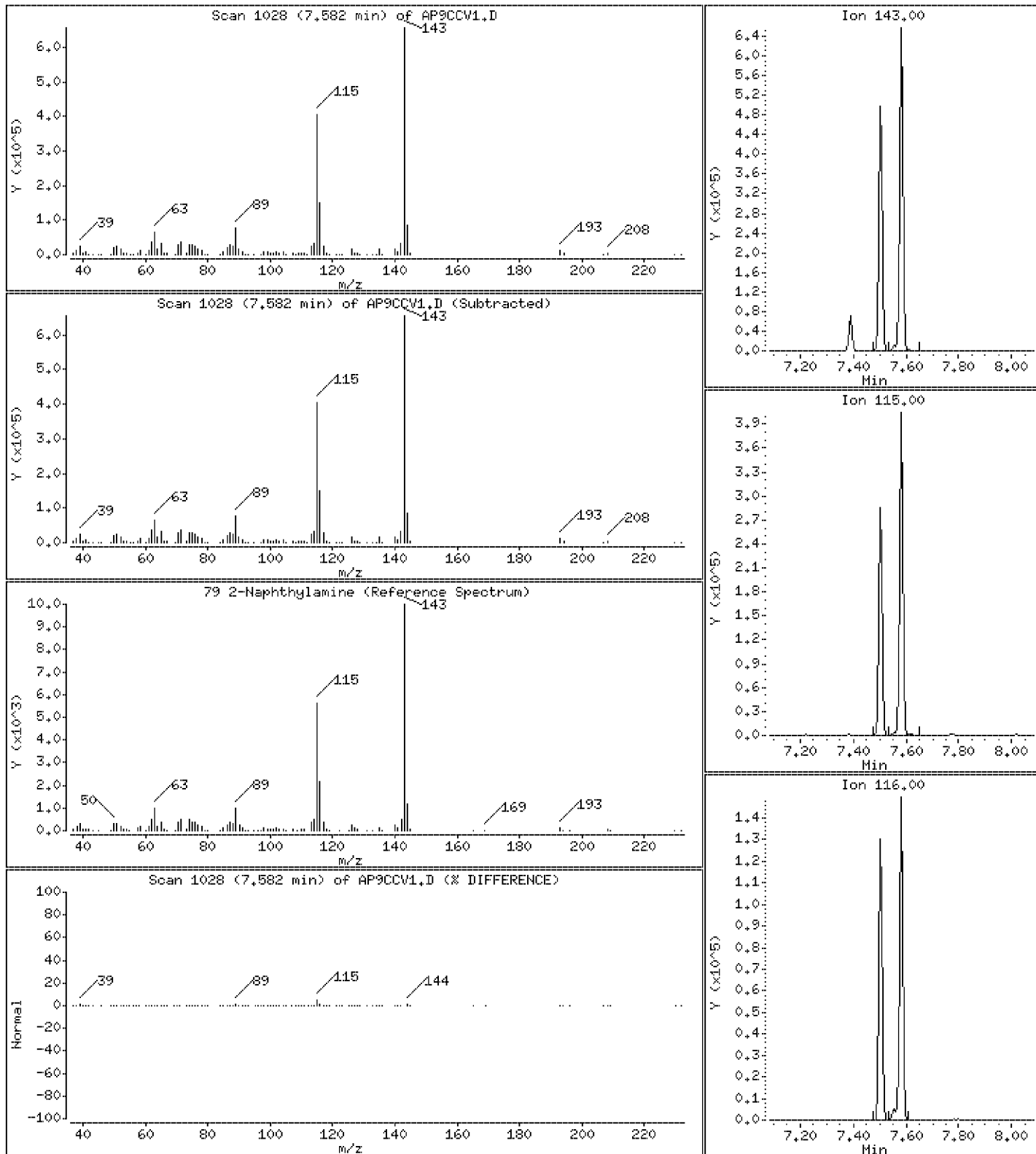
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

79 2-Naphthylamine

Concentration: 45.3 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

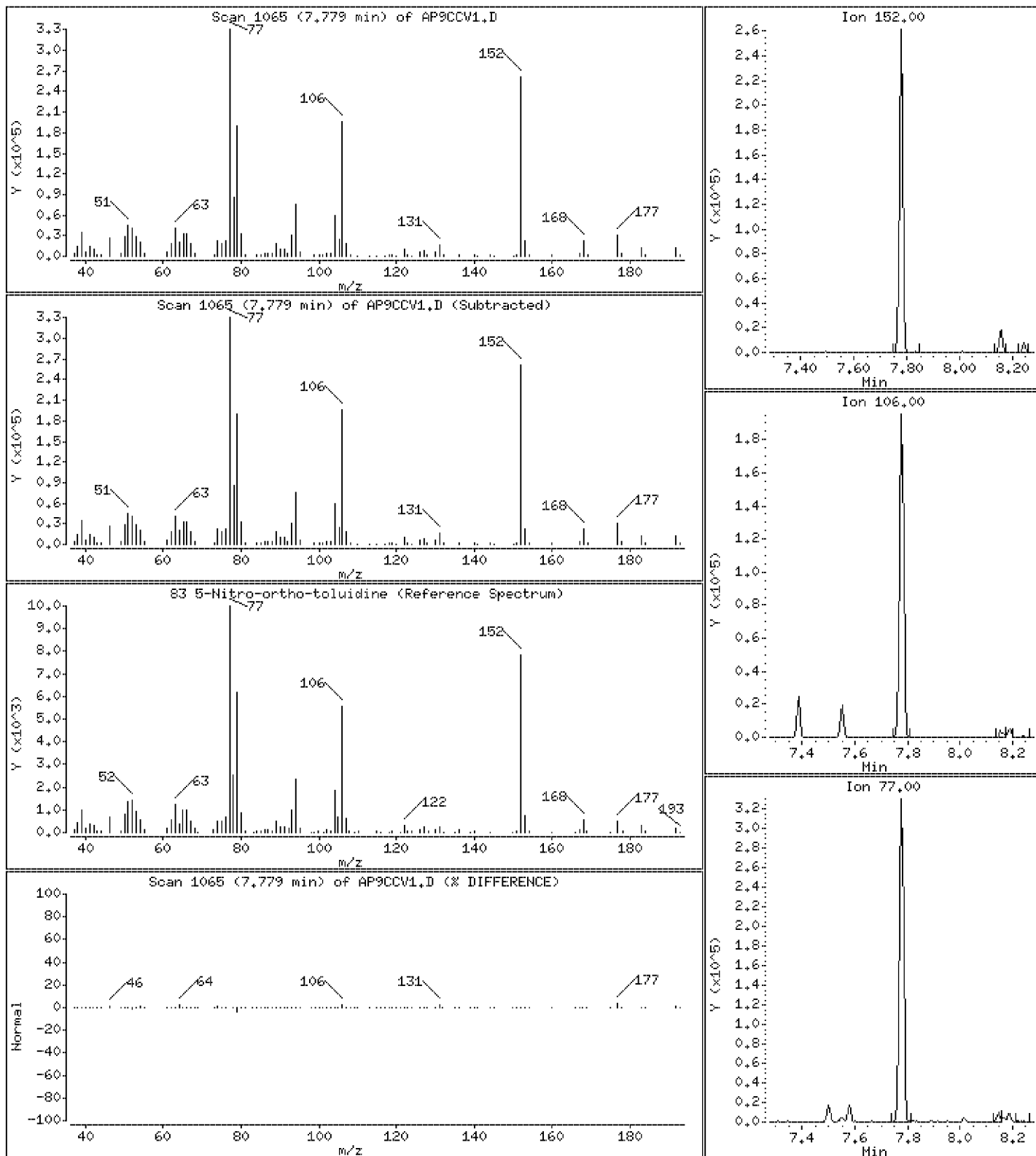
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

83 5-Nitro-ortho-toluidine

Concentration: 47.2 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

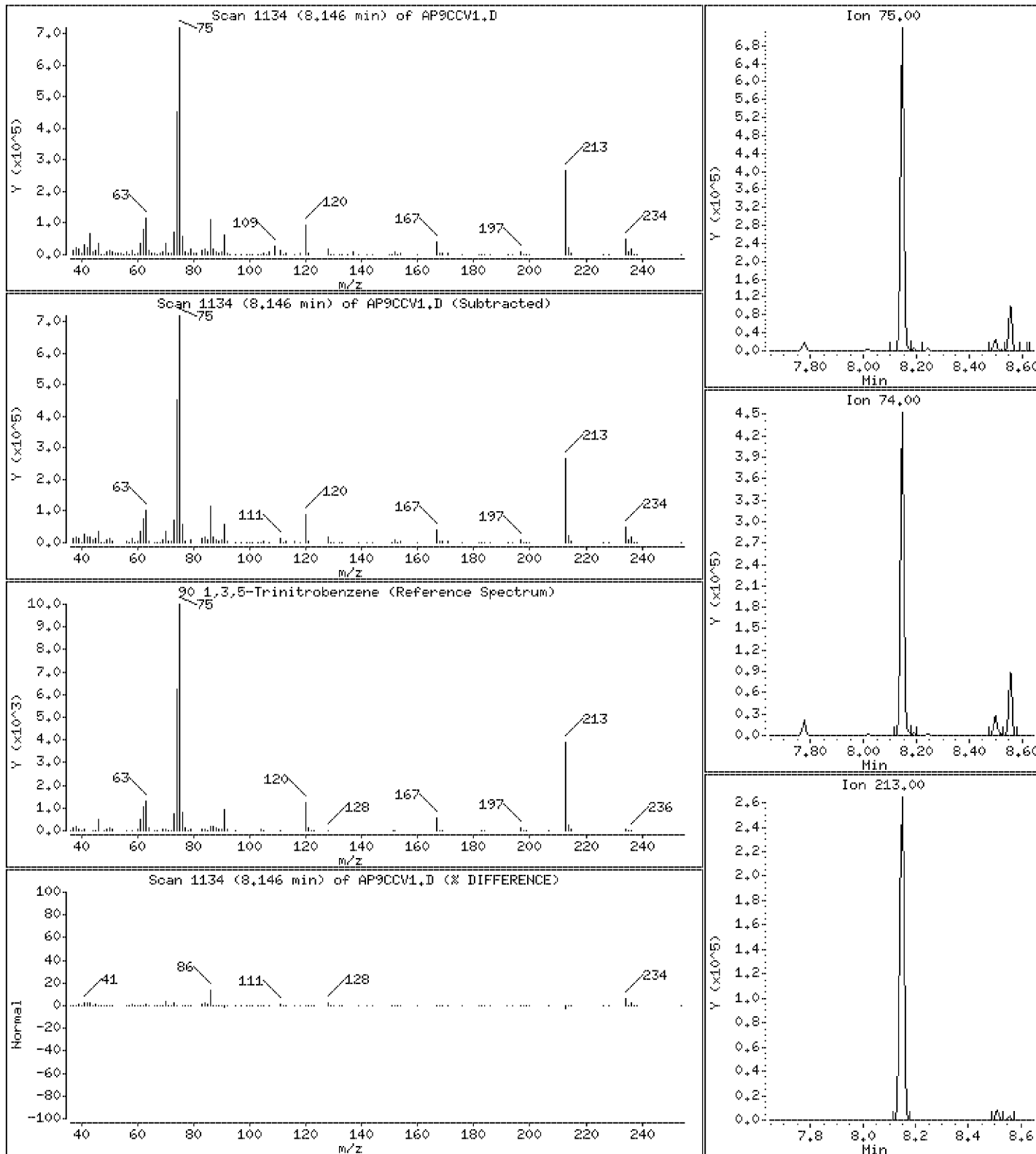
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

90 1,3,5-Trinitrobenzene

Concentration: 47.8 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

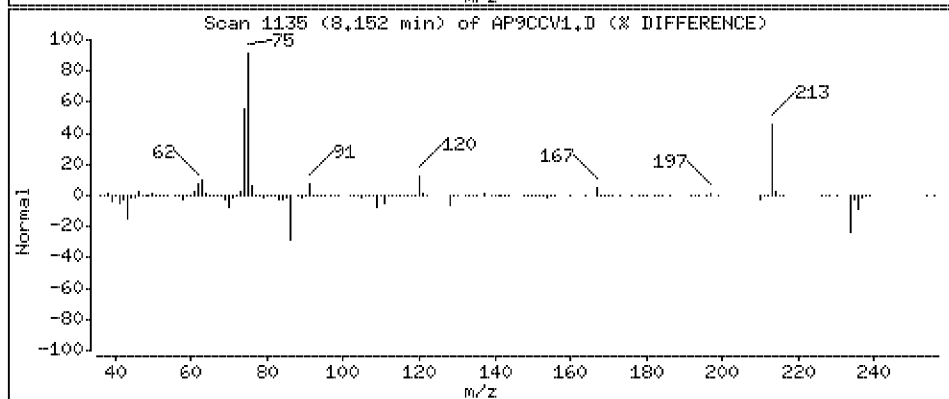
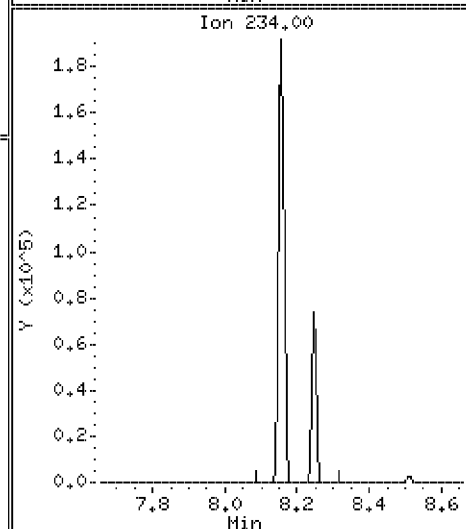
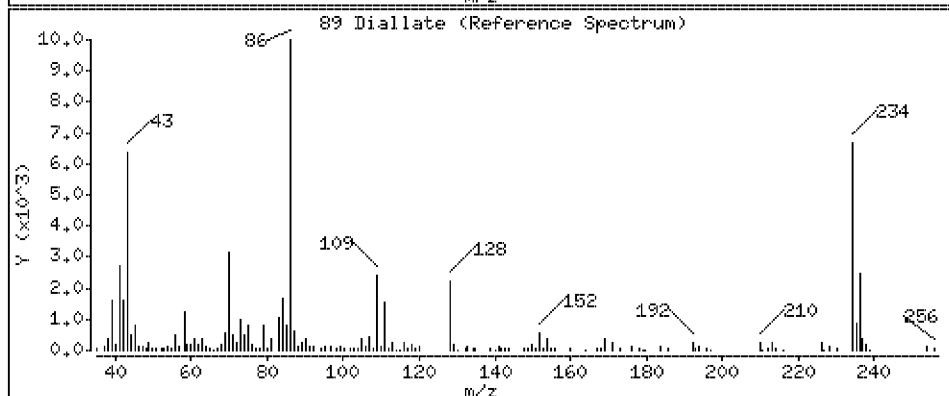
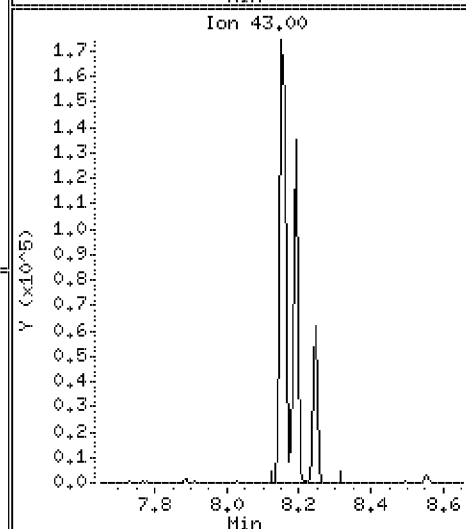
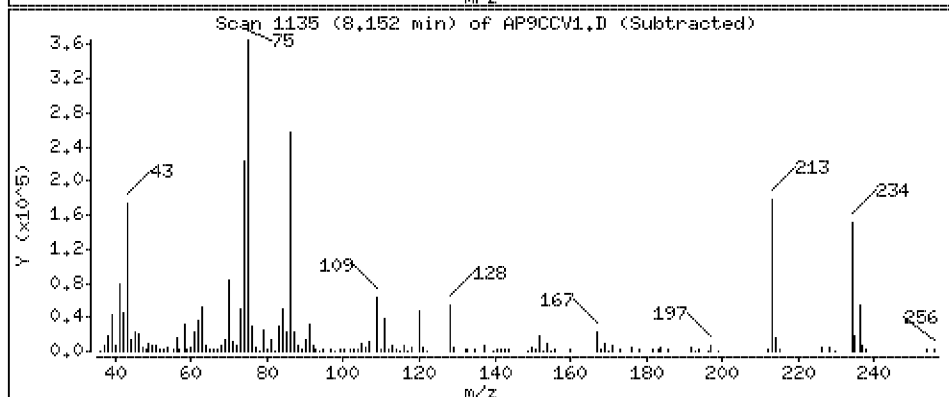
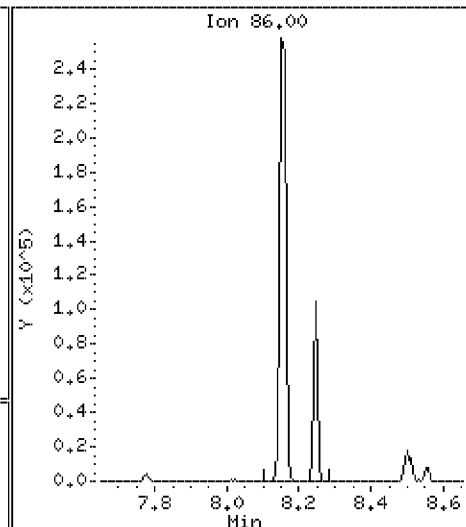
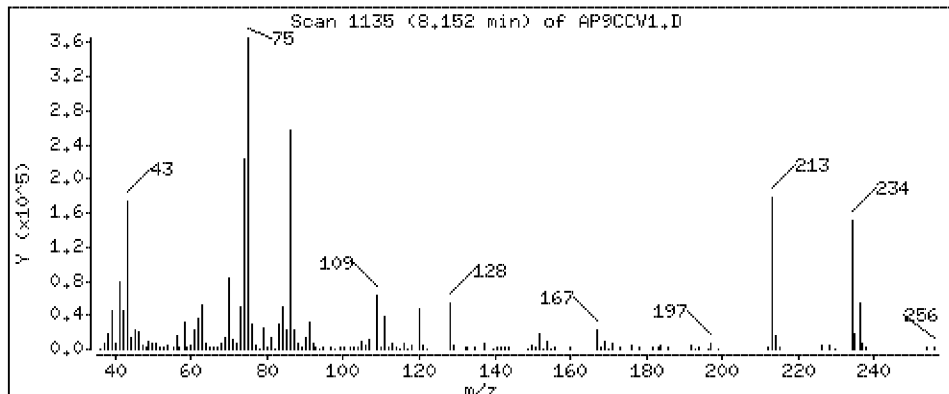
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

89 Diallate

Concentration: 46.9 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

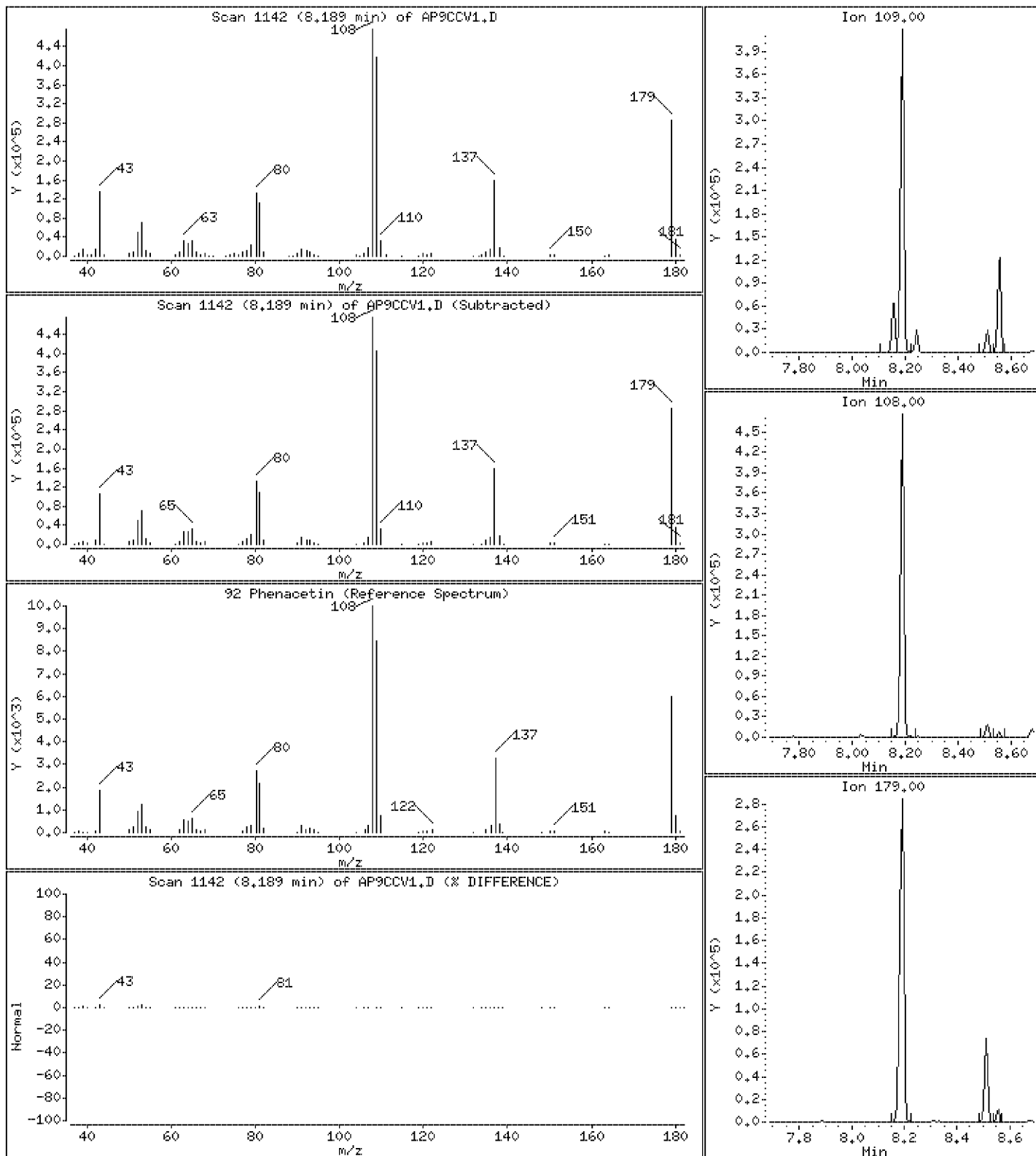
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

92 Phenacetin

Concentration: 45.2 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

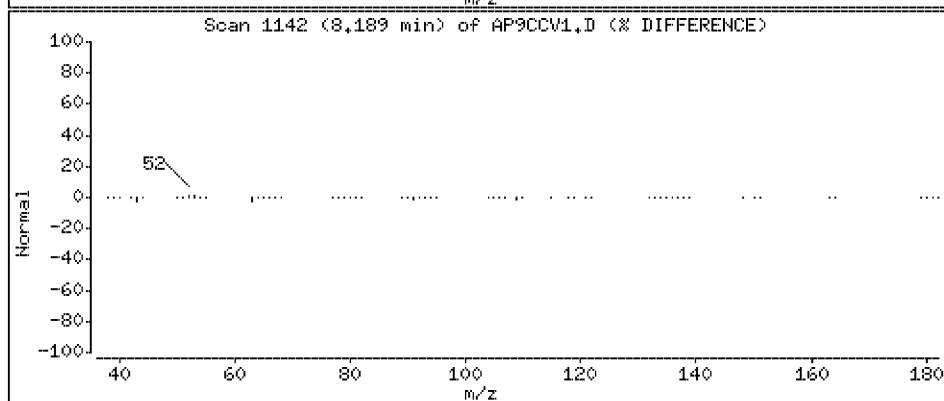
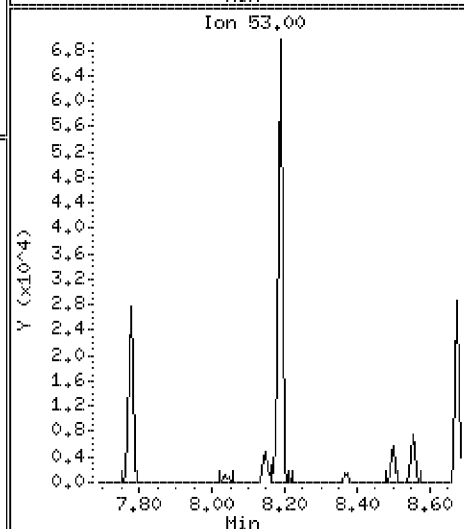
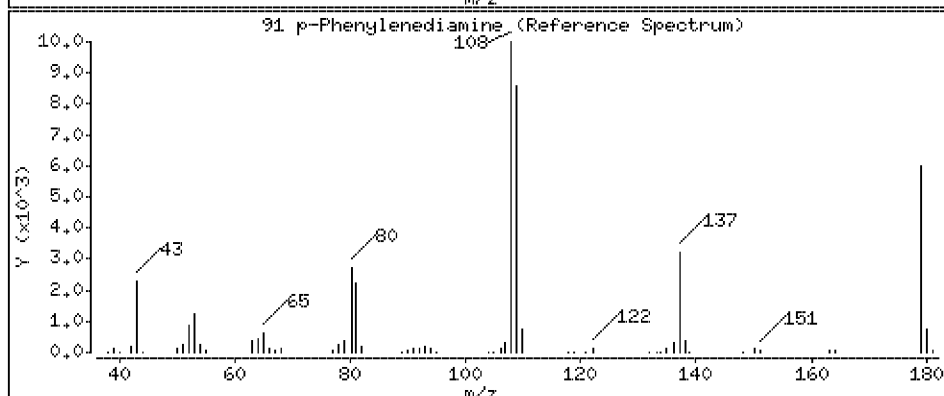
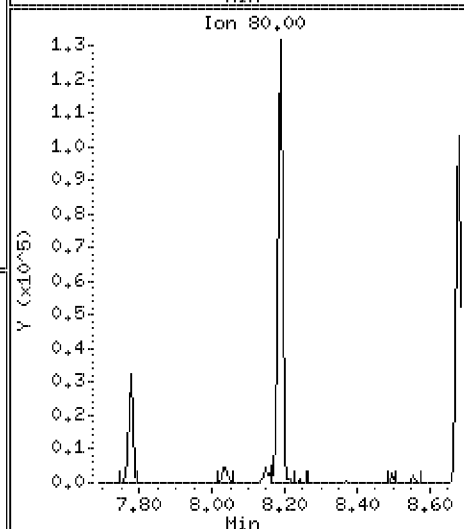
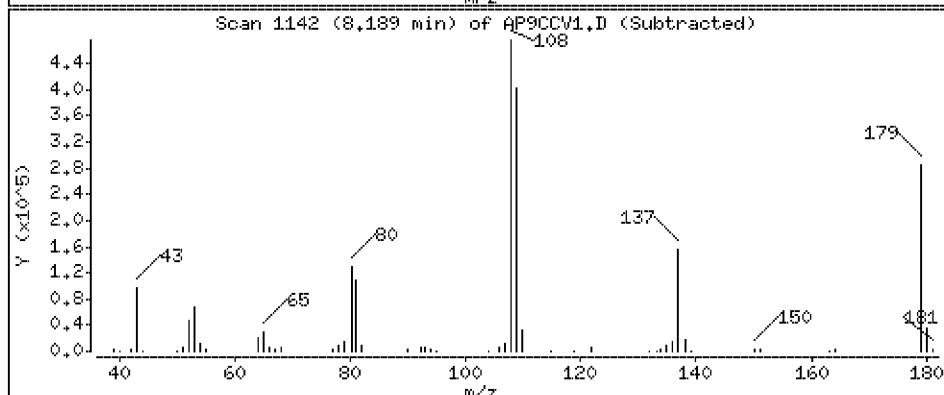
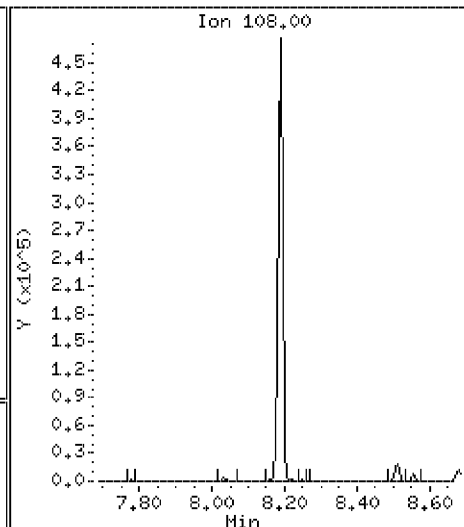
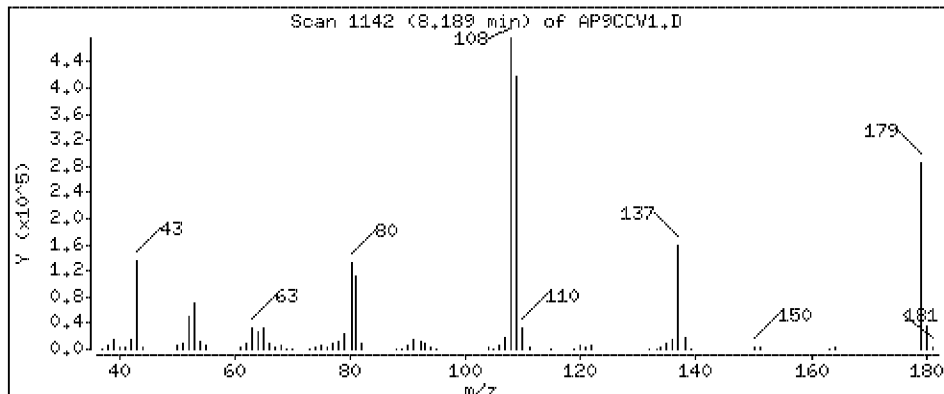
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

91 p-Phenylenediamine

Concentration: 47.3 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

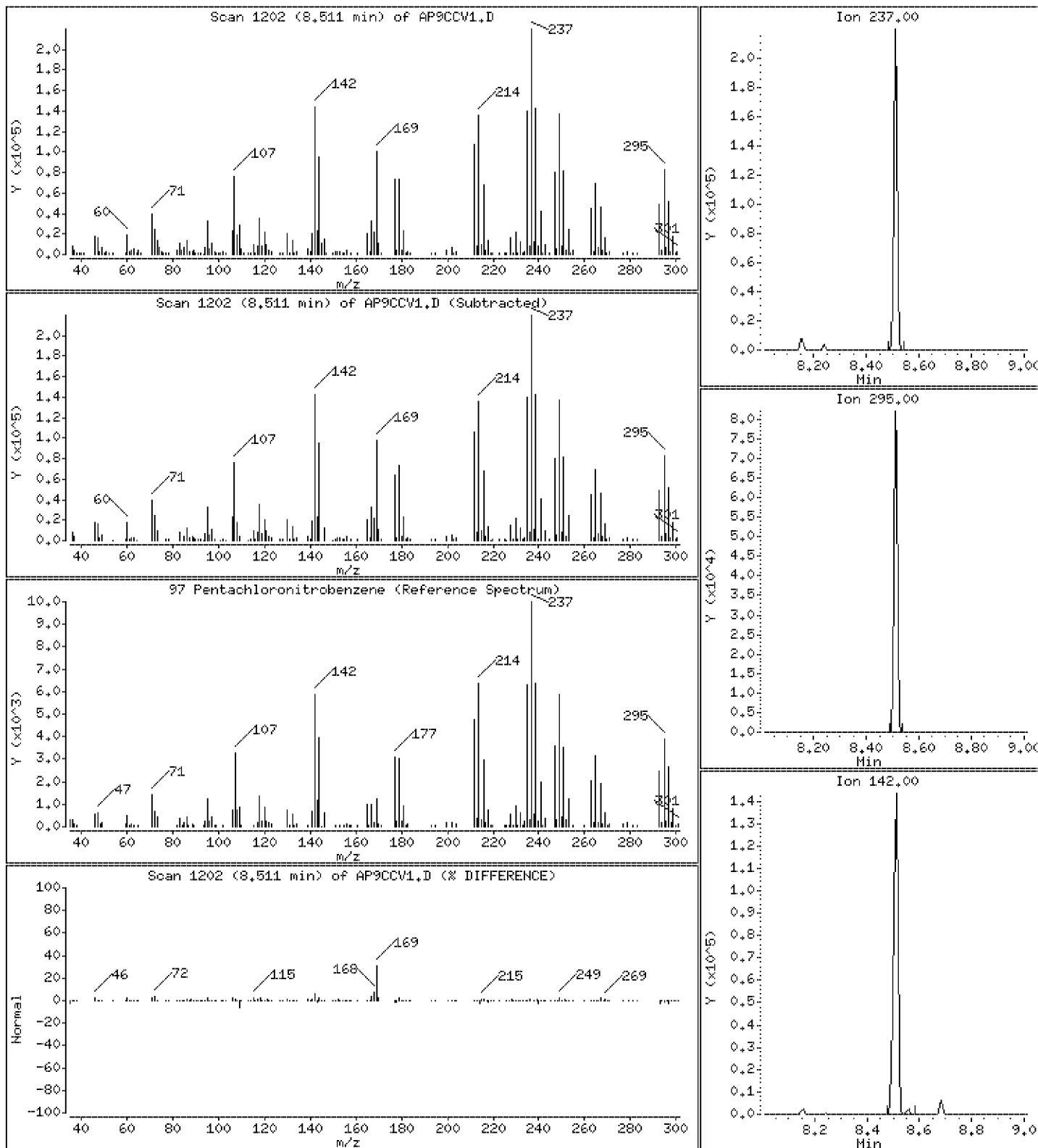
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

97 Pentachloronitrobenzene

Concentration: 46.0 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

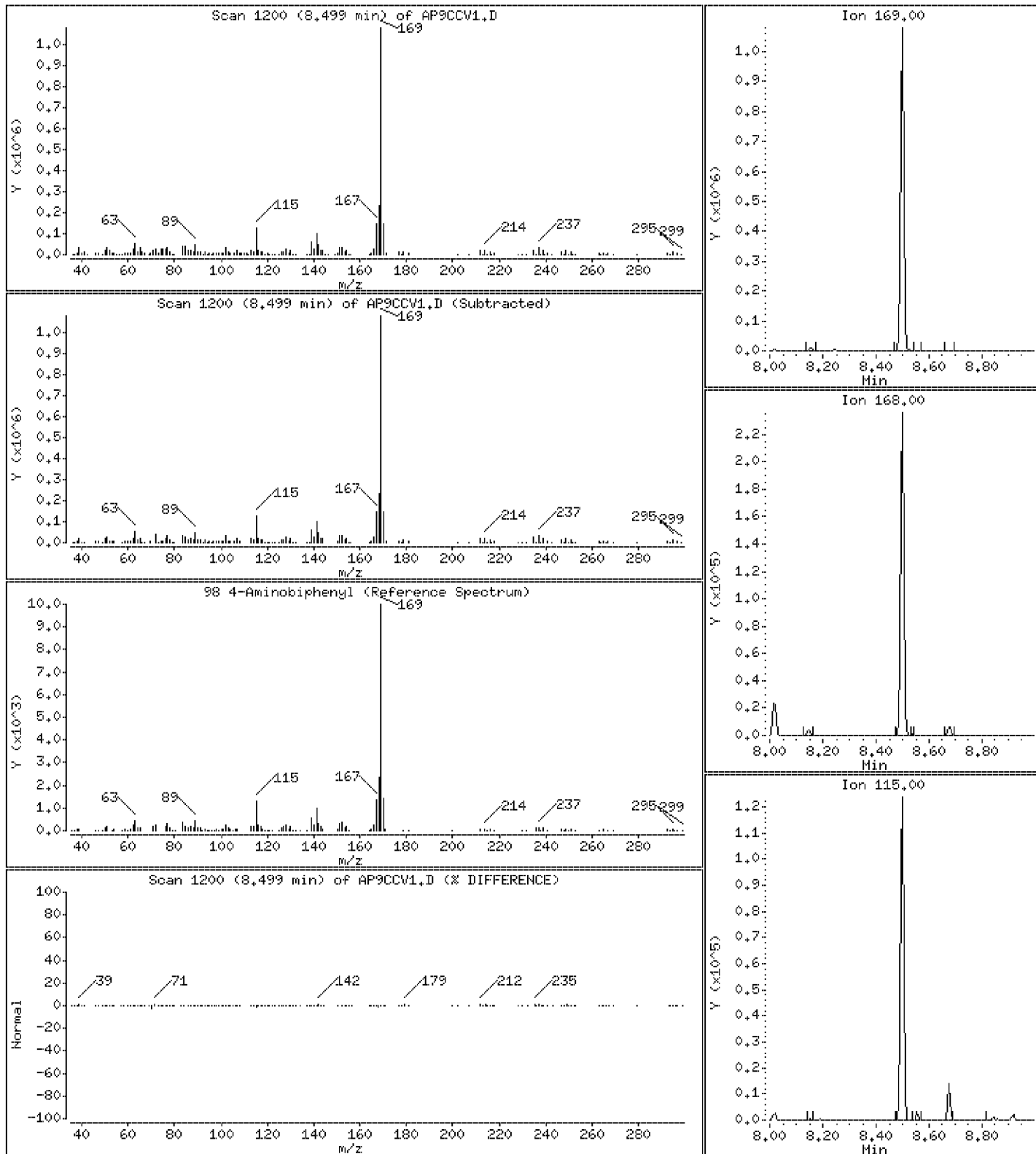
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

98 4-Aminobiphenyl

Concentration: 45.0 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

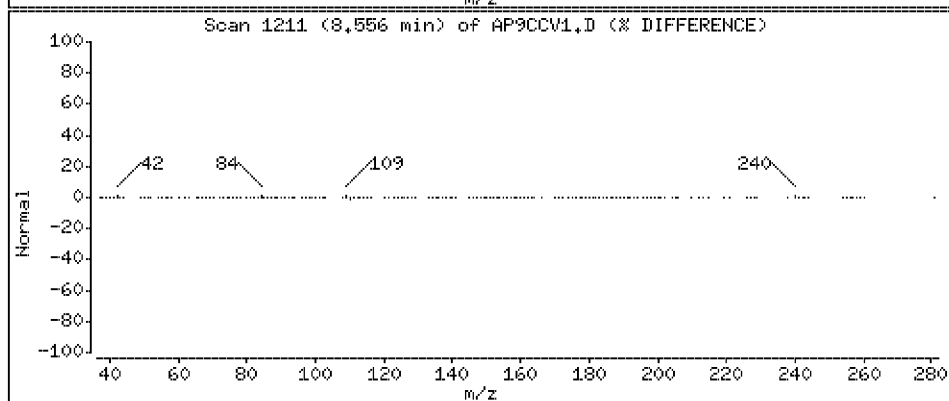
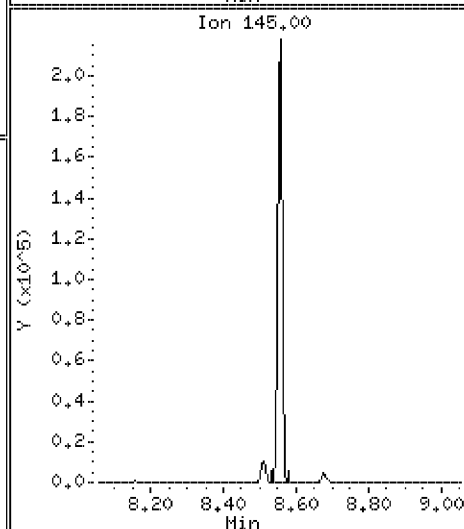
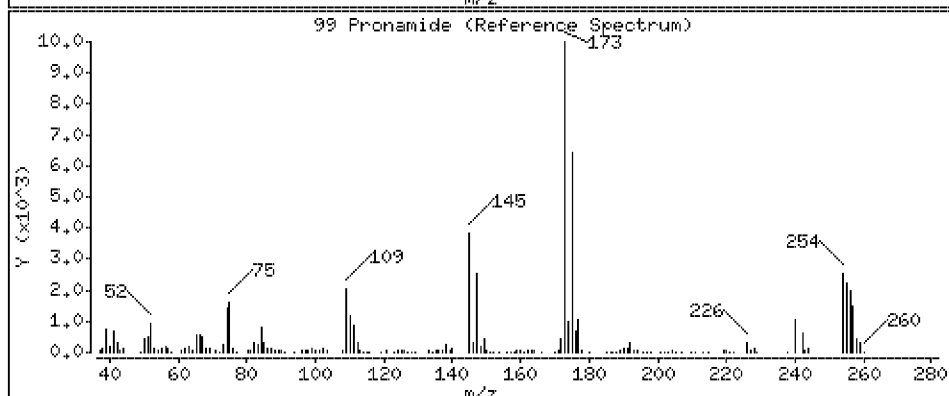
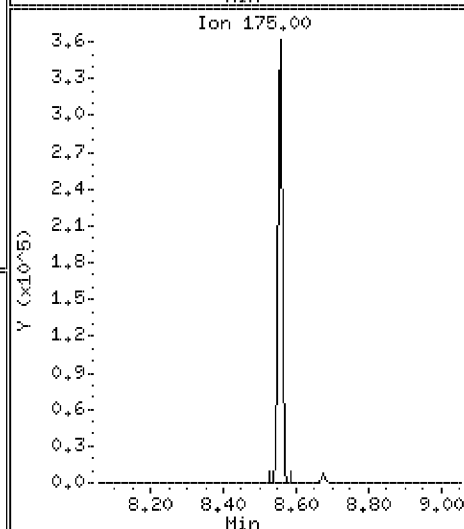
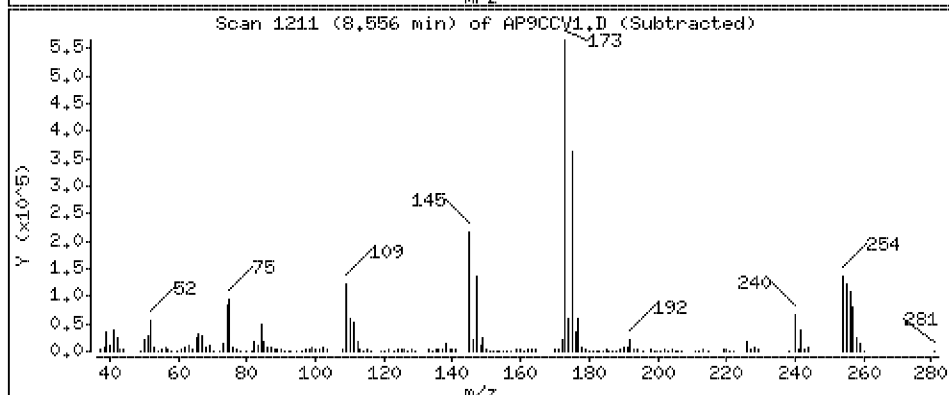
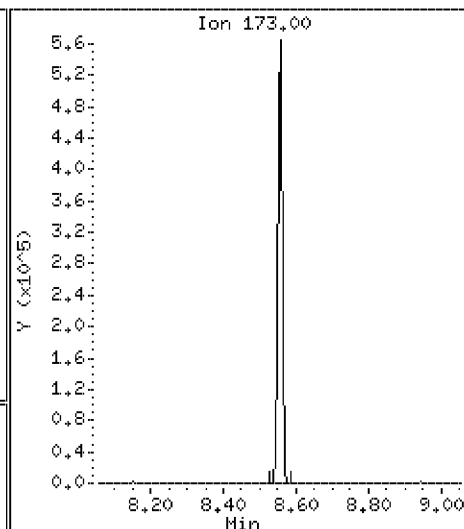
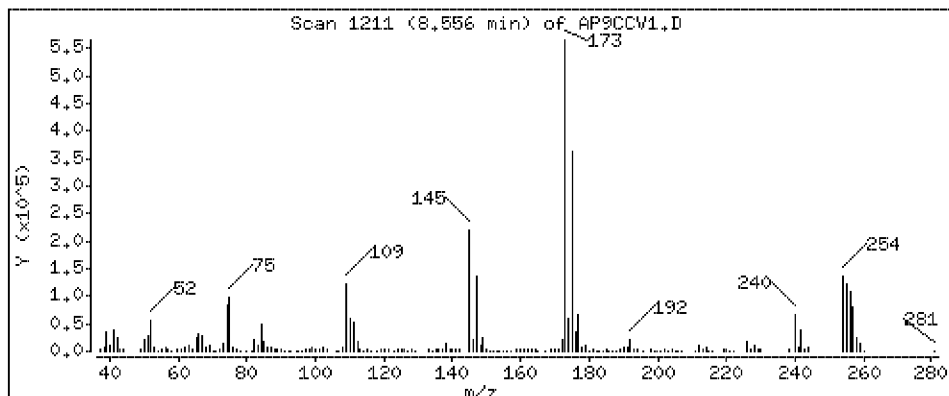
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

99 Pronamide

Concentration: 46.6 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

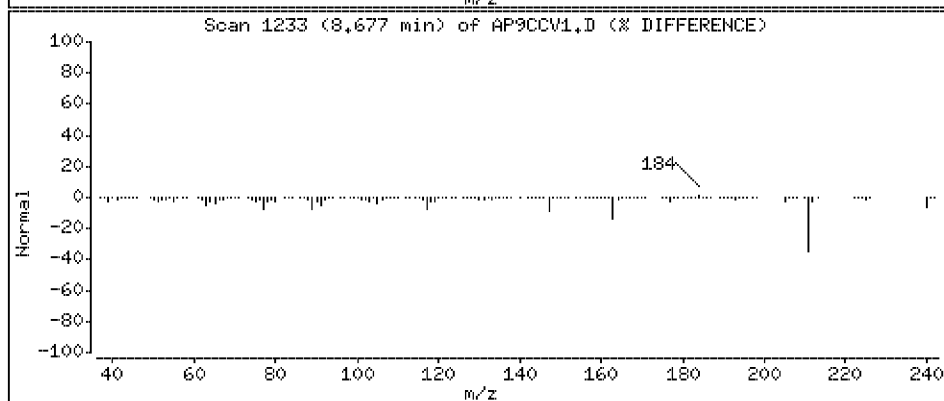
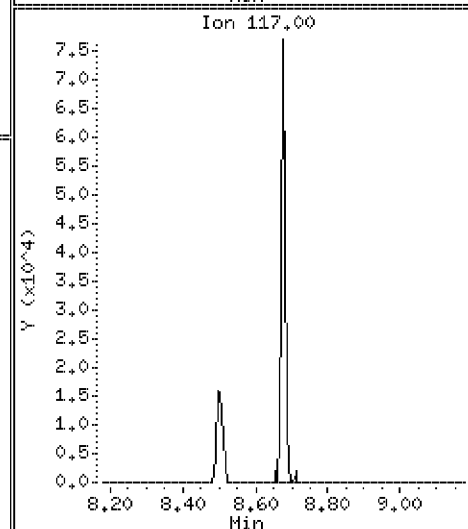
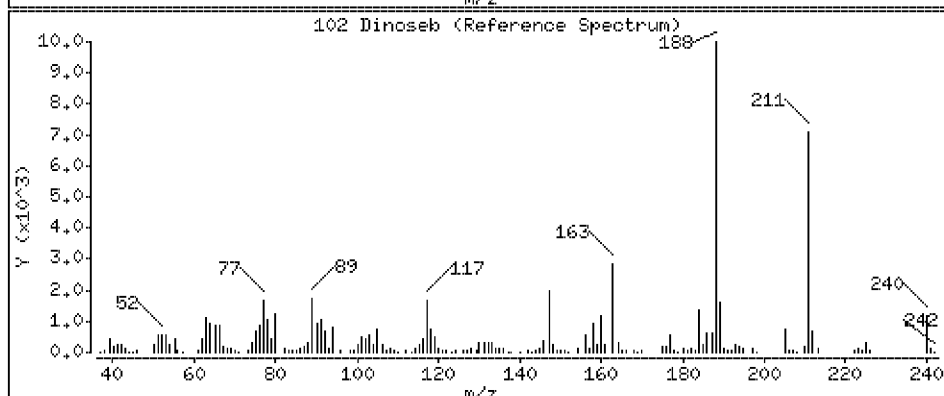
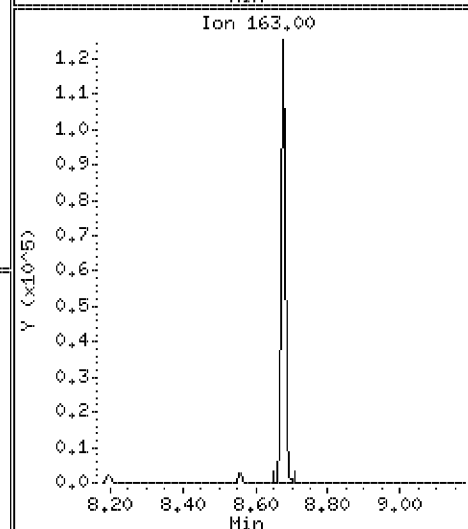
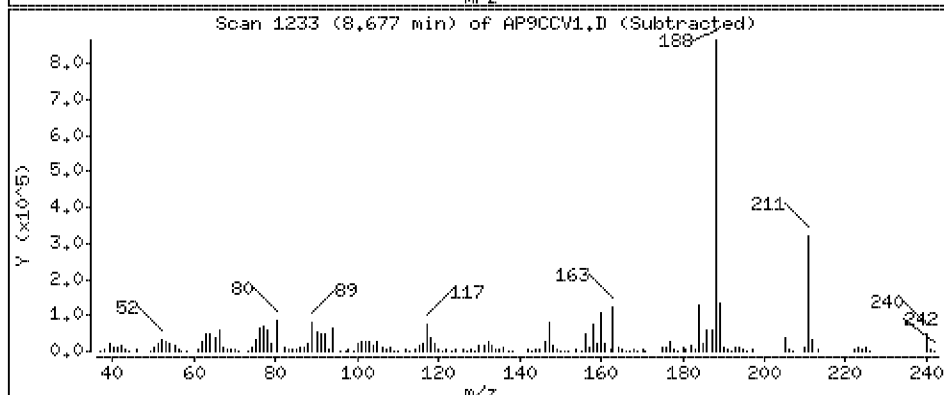
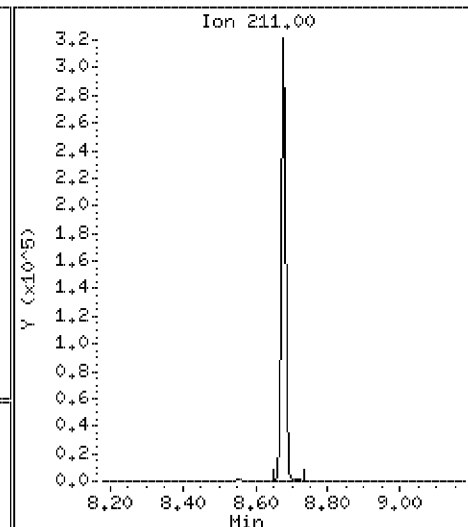
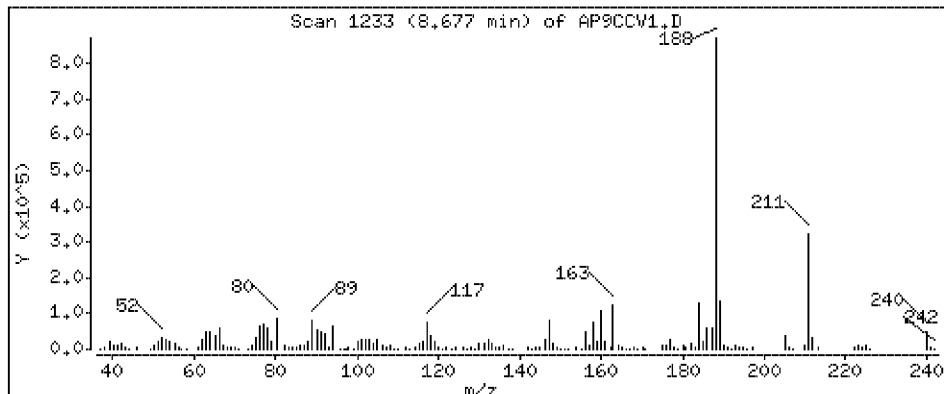
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

102 Dinoseb

Concentration: 40.4 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

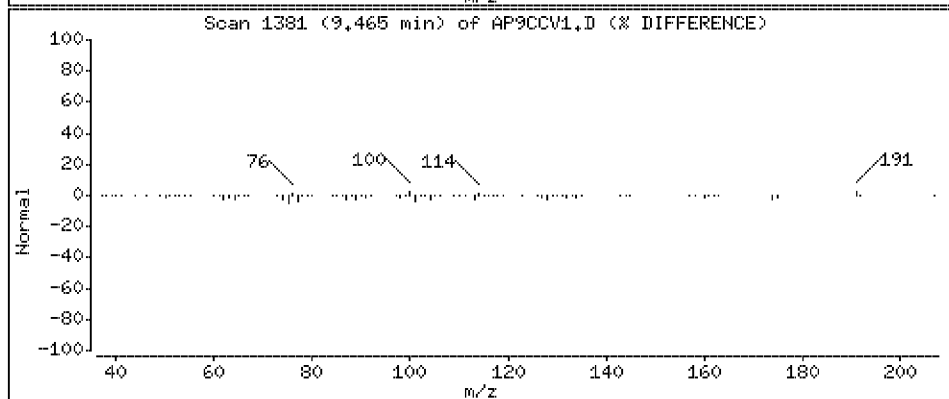
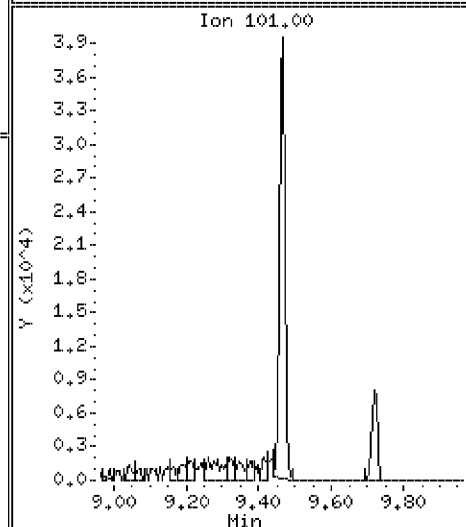
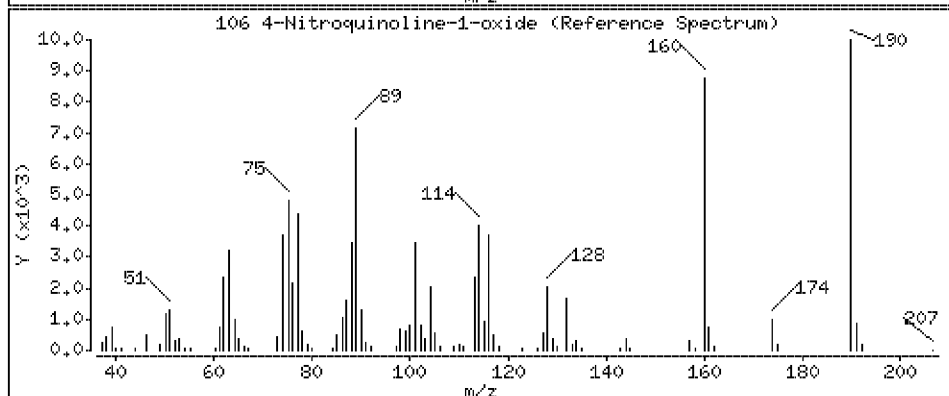
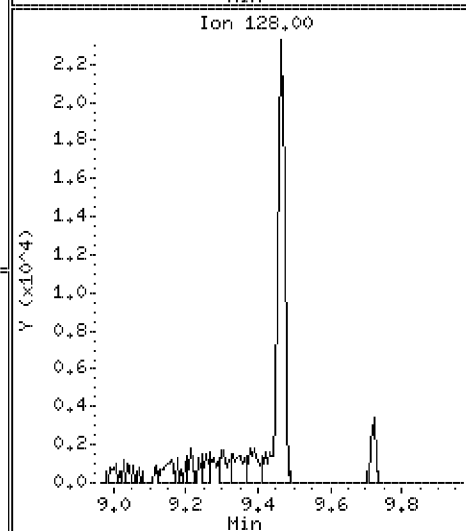
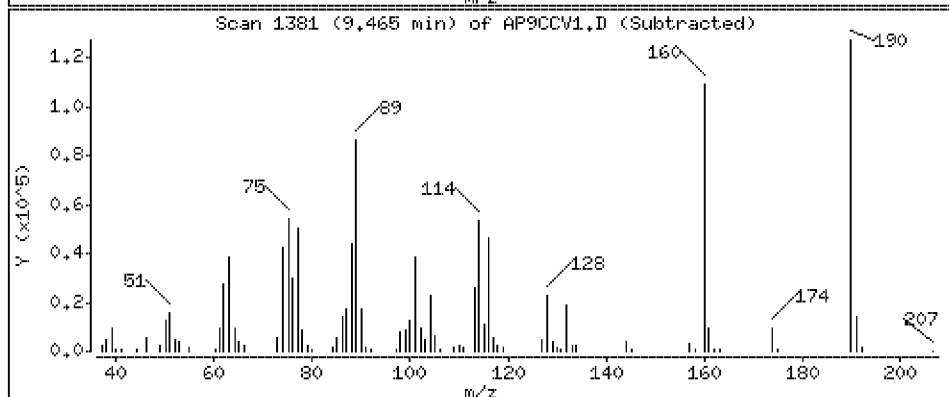
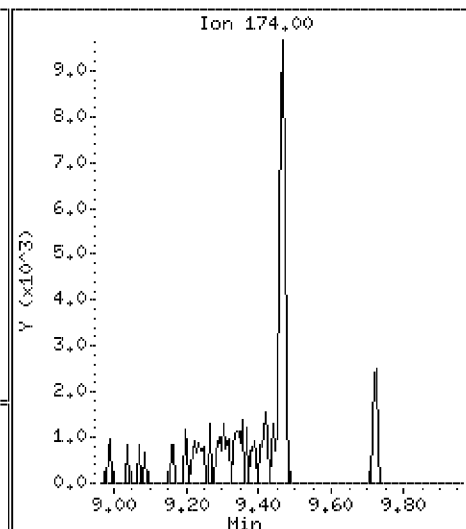
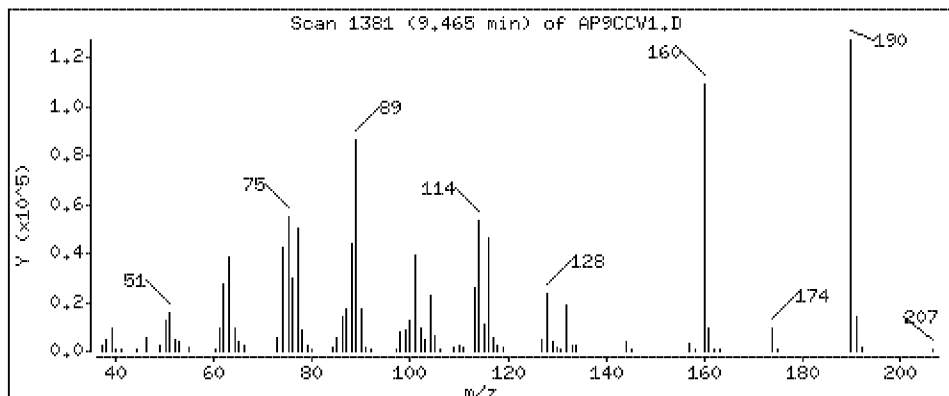
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

106 4-Nitroquinoline-1-oxide

Concentration: 38.8 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

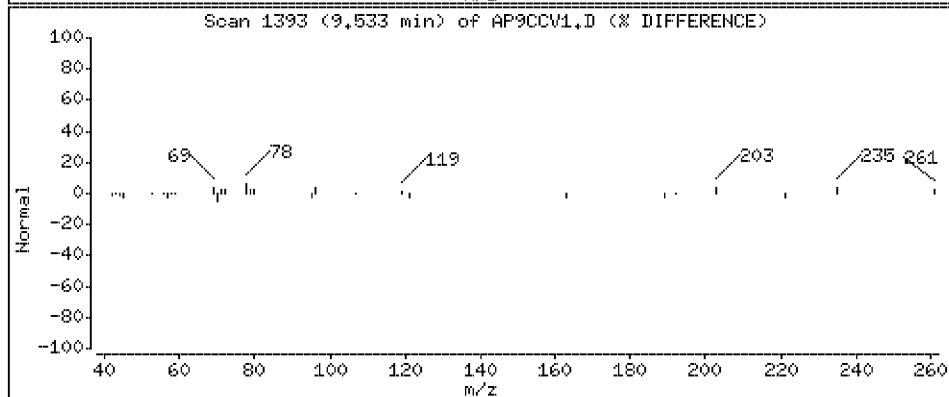
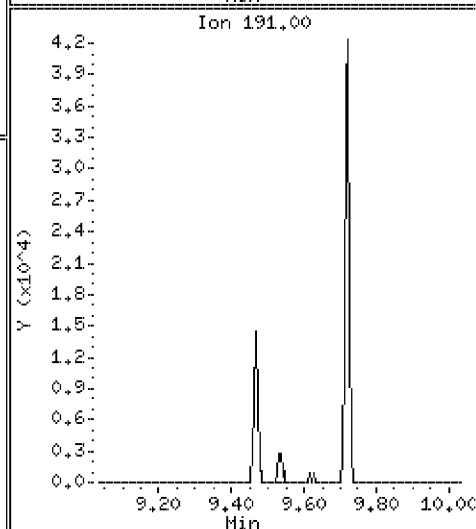
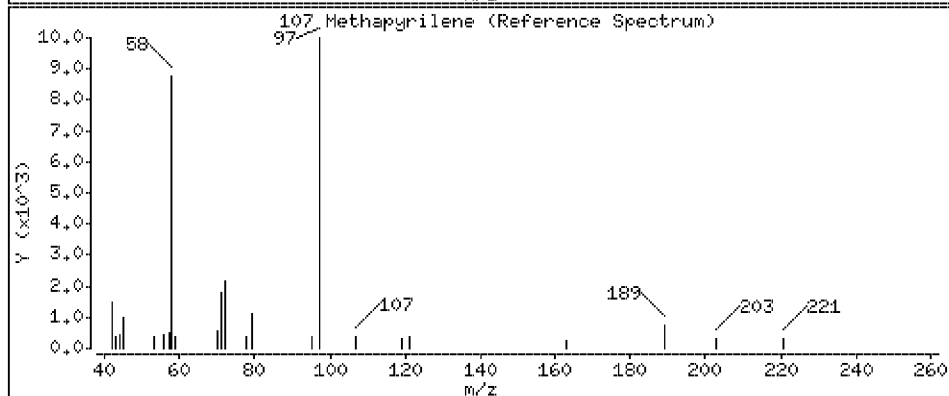
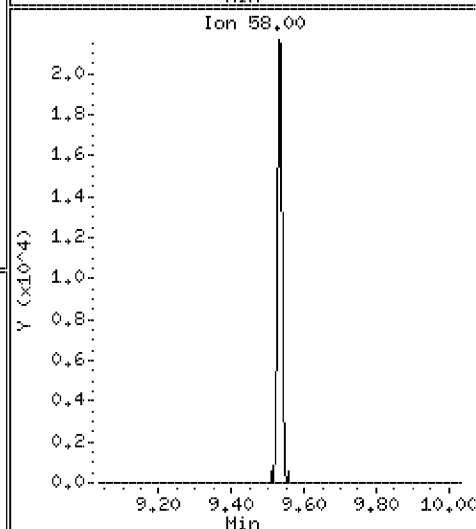
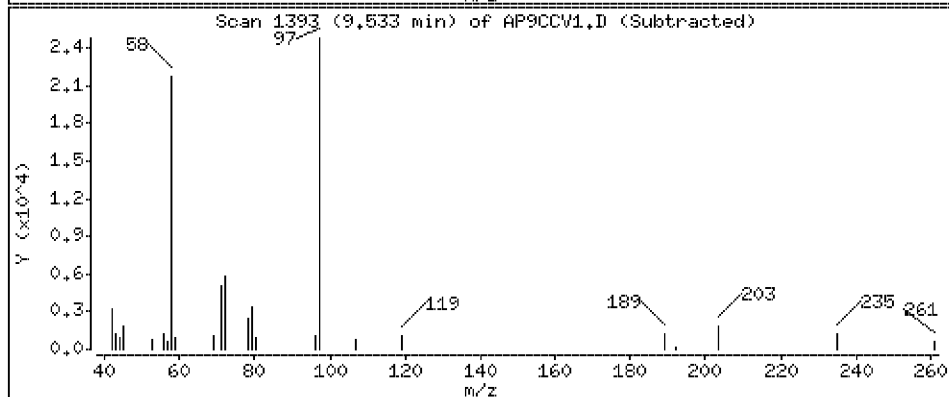
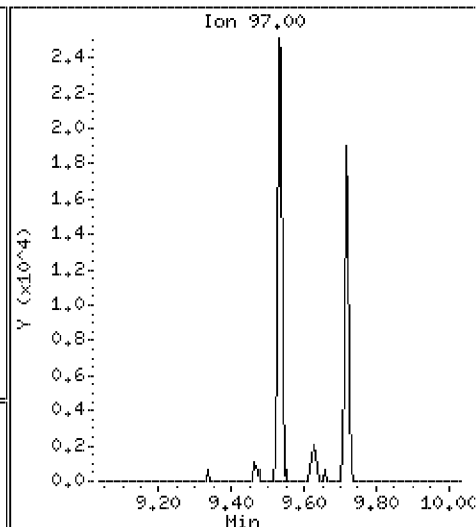
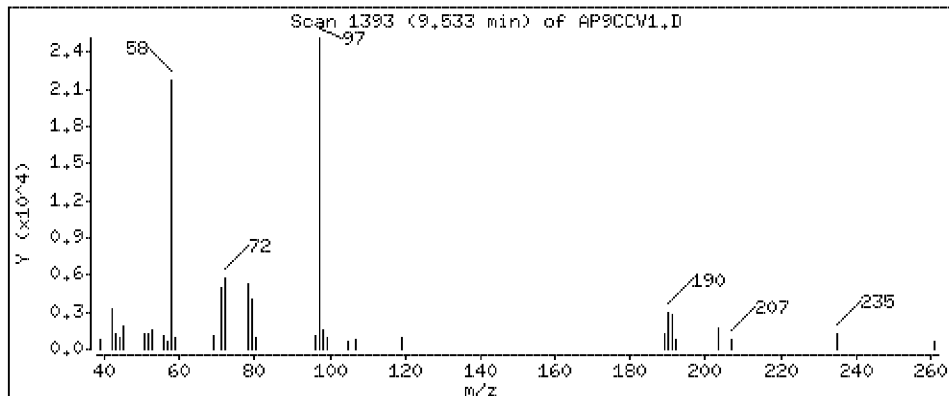
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

107 Methapyrilene

Concentration: 53.5 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

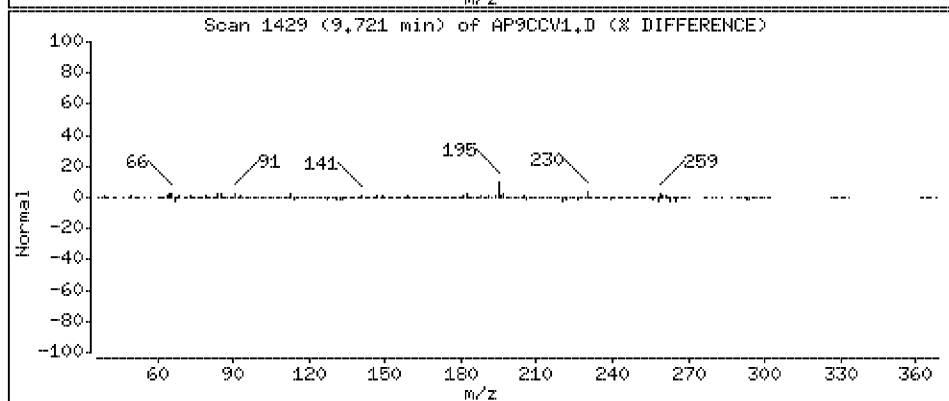
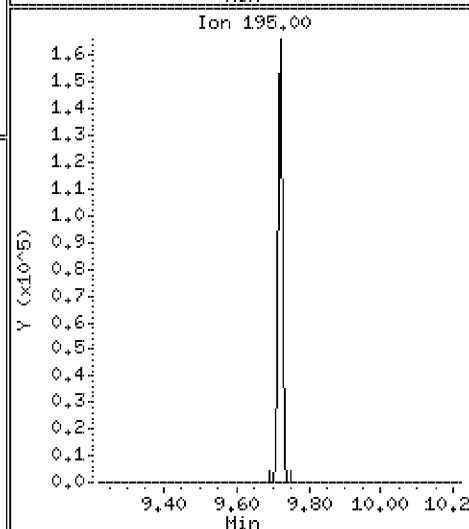
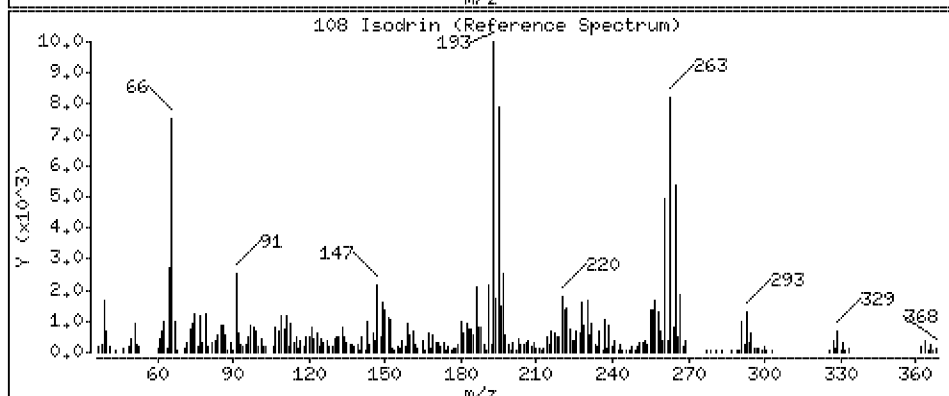
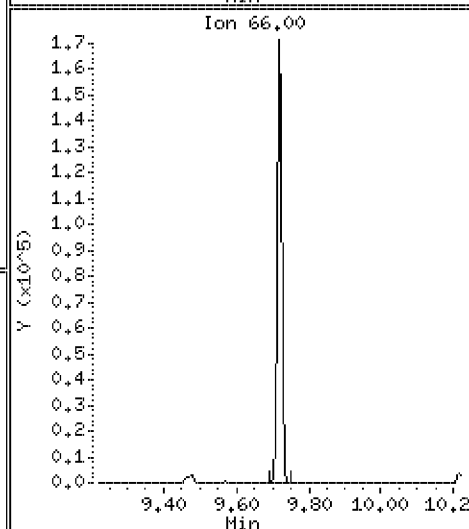
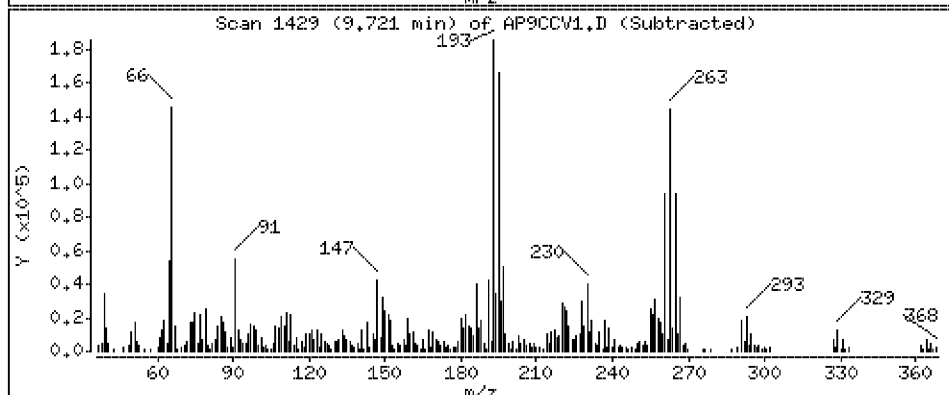
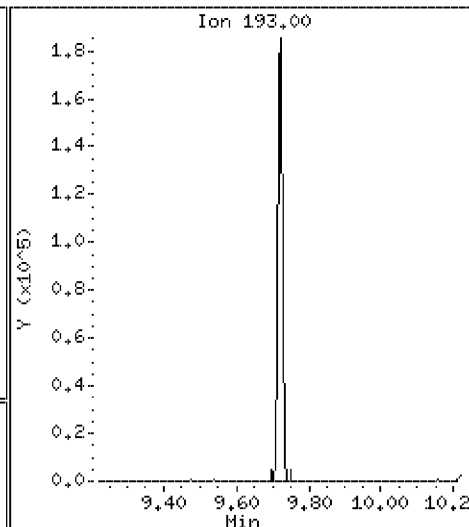
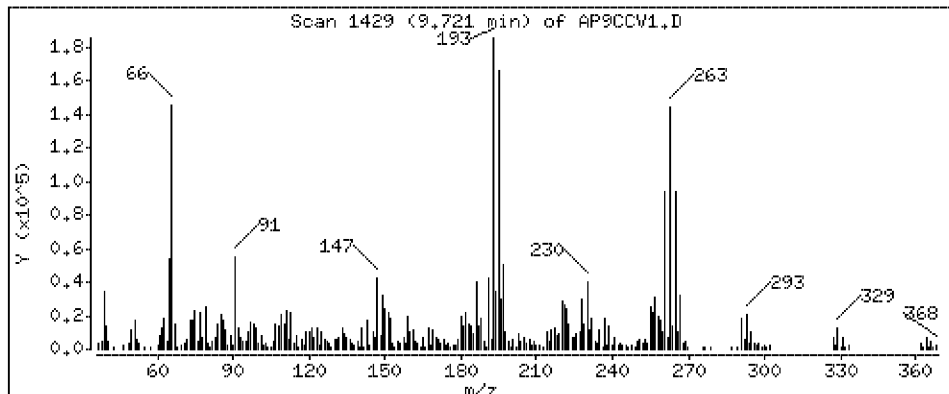
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

108 Isodrin

Concentration: 45.8 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

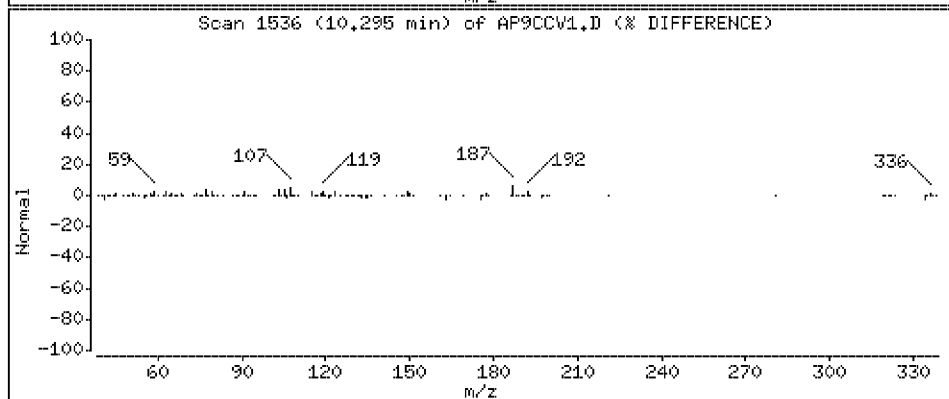
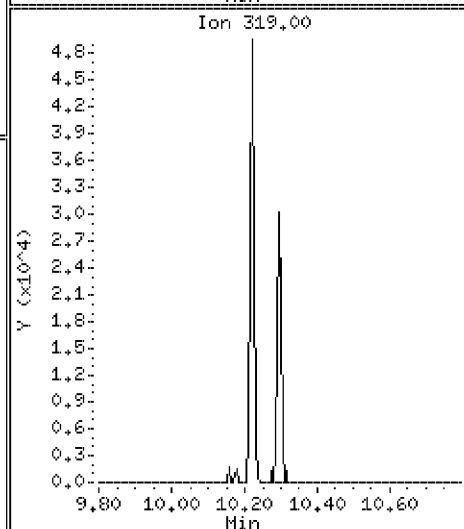
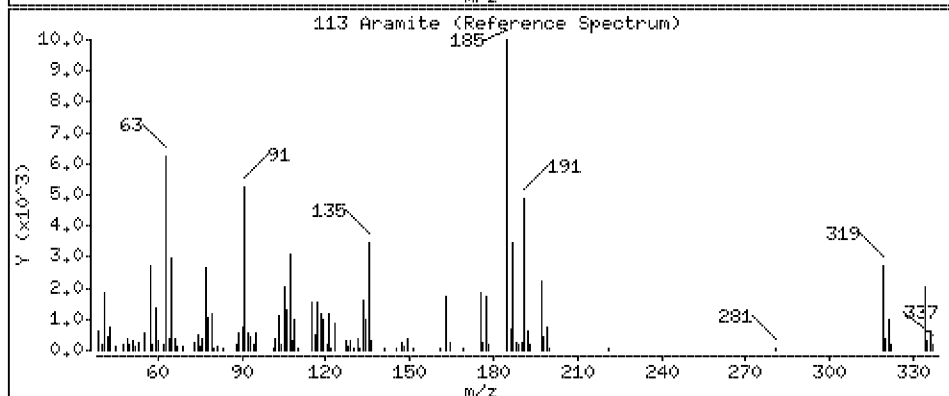
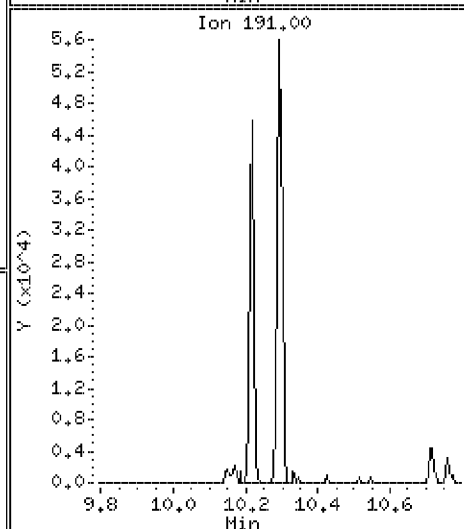
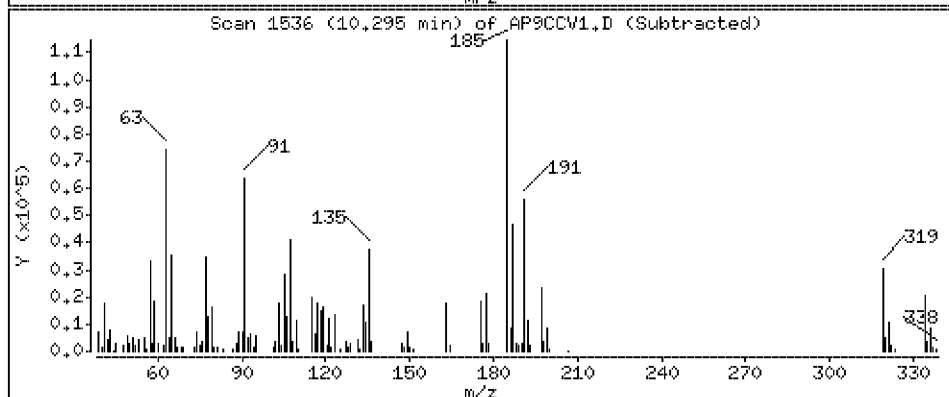
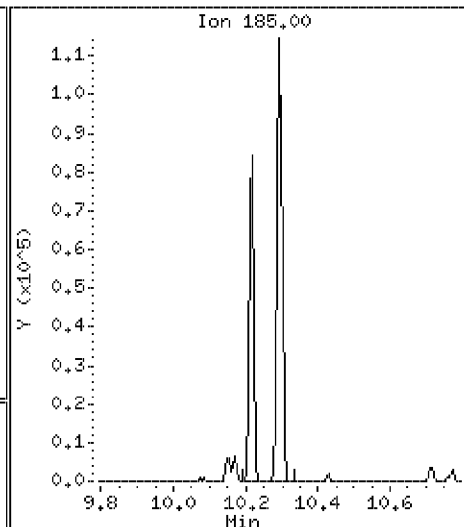
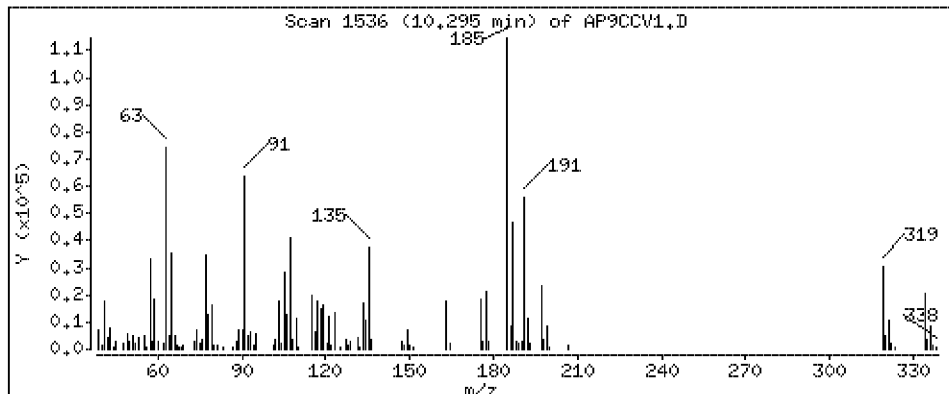
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

113 Aramite

Concentration: 45.8 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

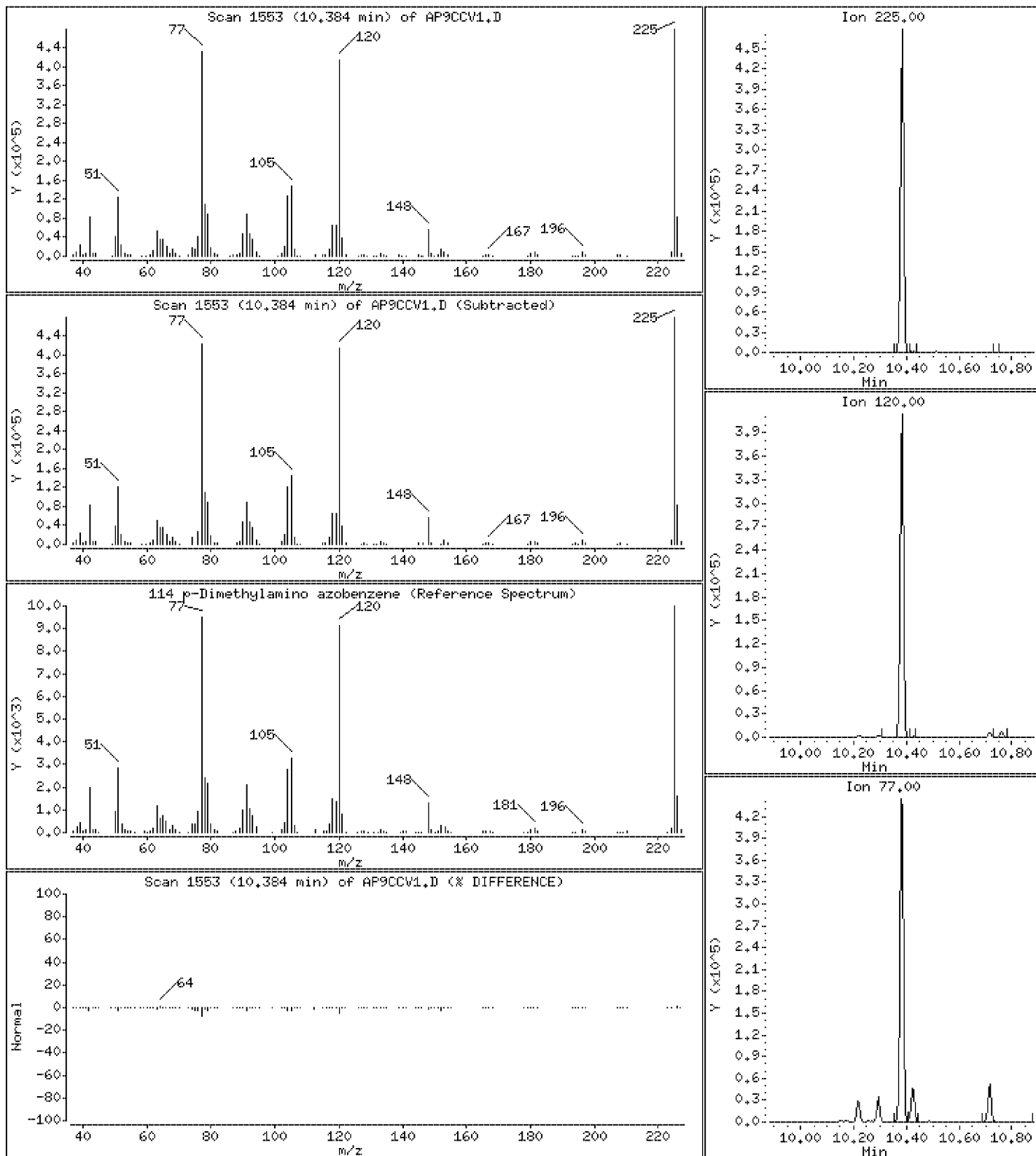
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

114 p-Dimethylamino azobenzene

Concentration: 46.0 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

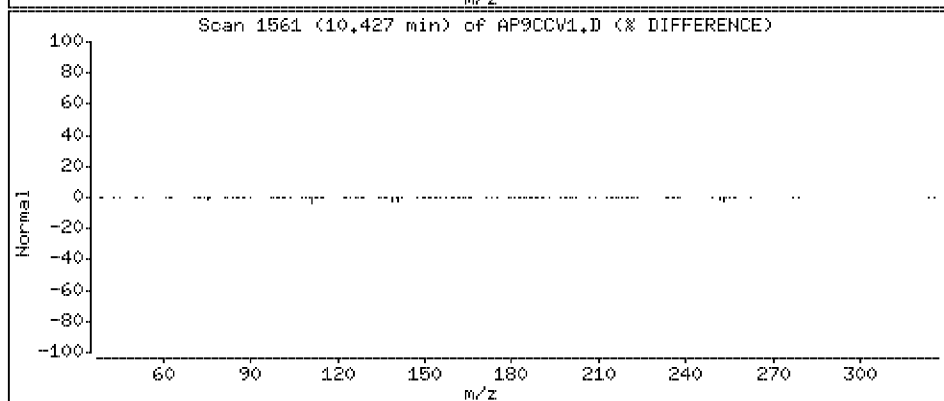
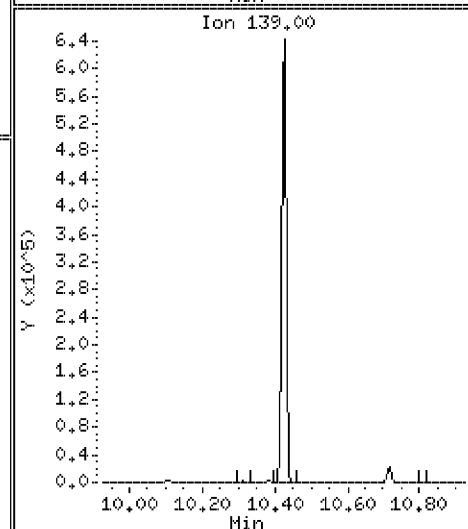
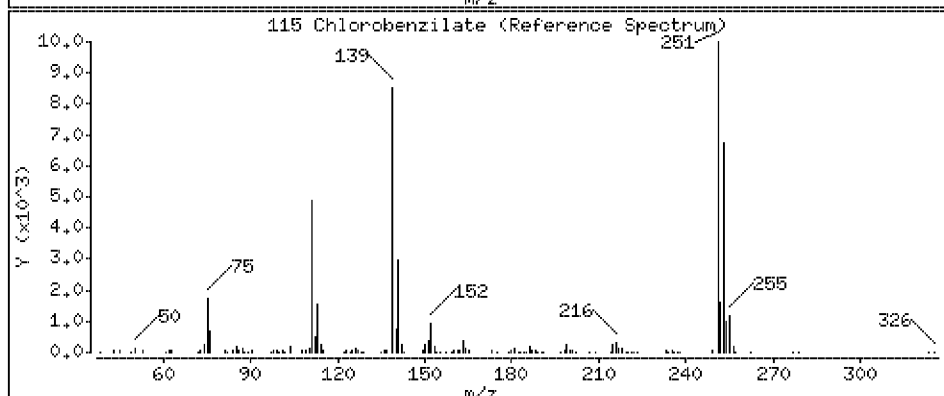
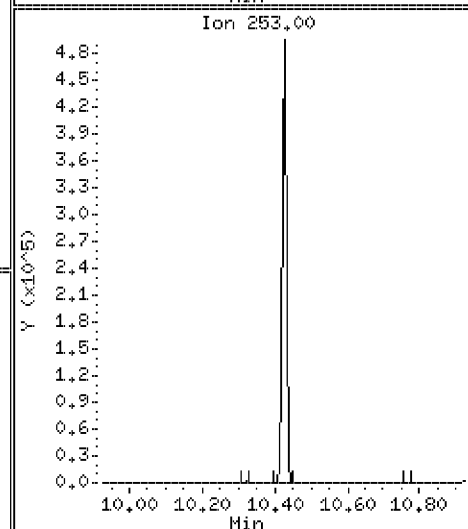
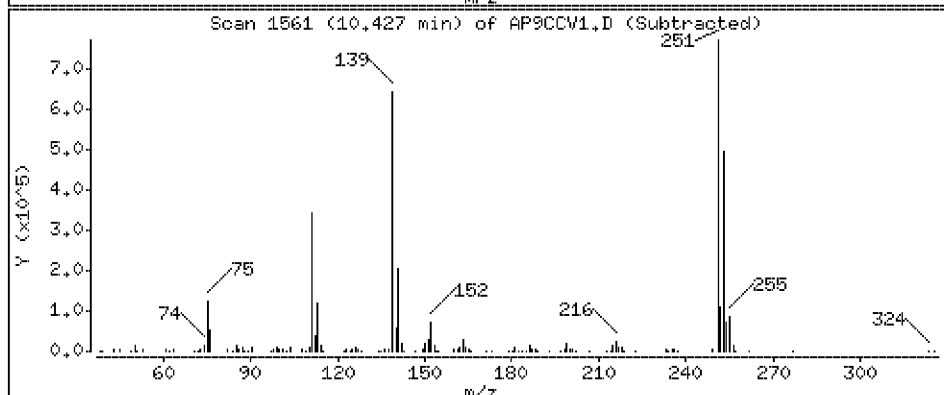
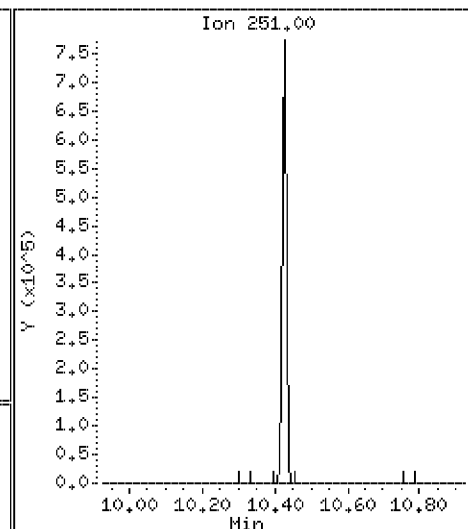
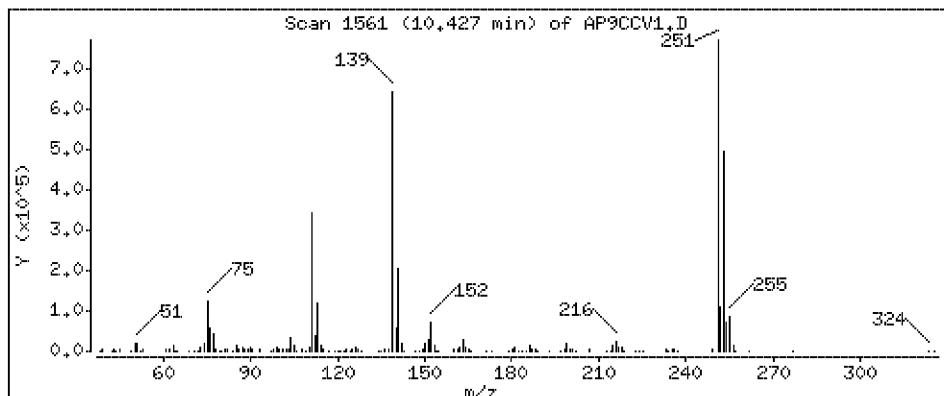
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

115 Chlorobenzilate

Concentration: 46.4 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

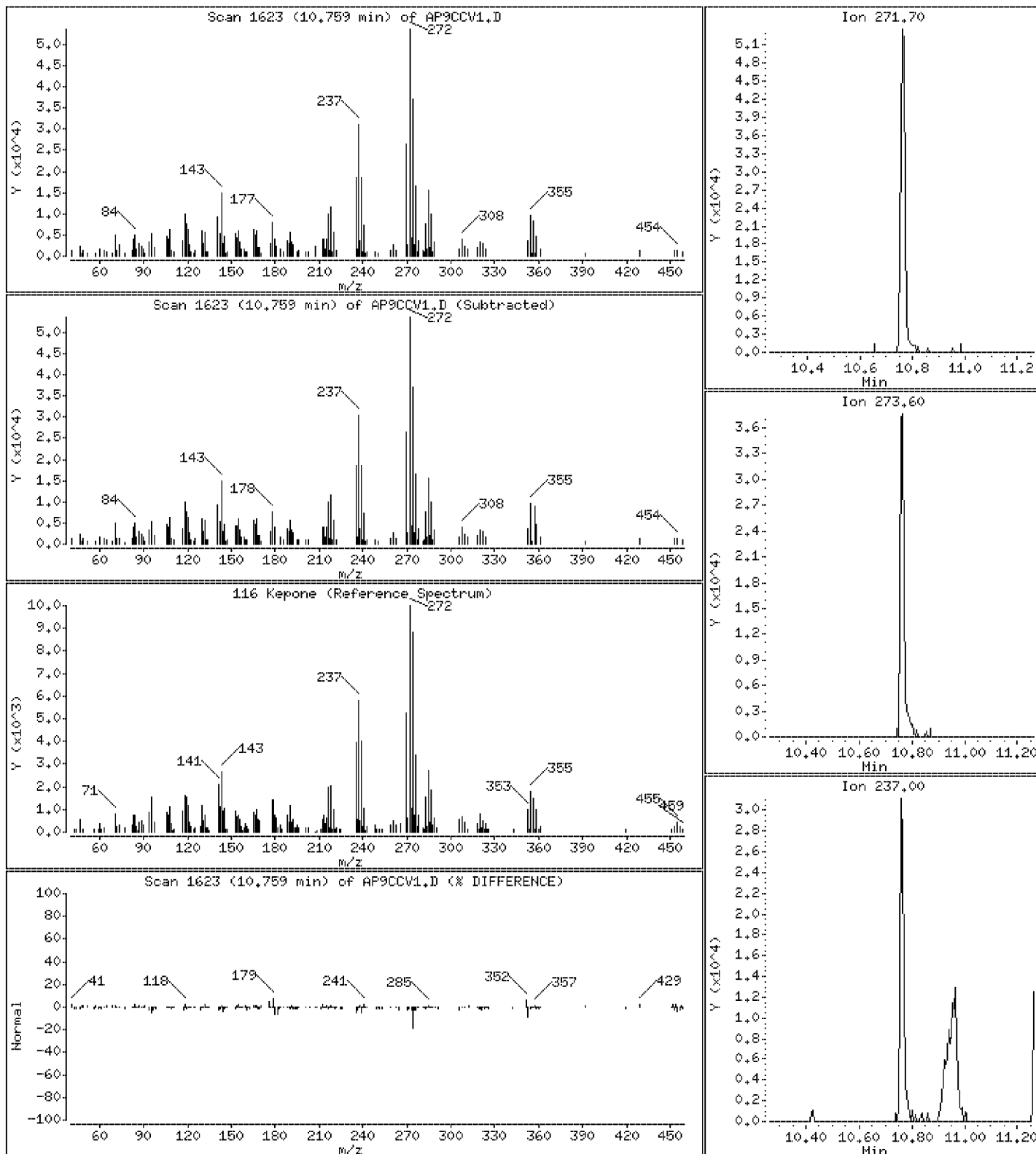
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

116 Kepone

Concentration: 23.2 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

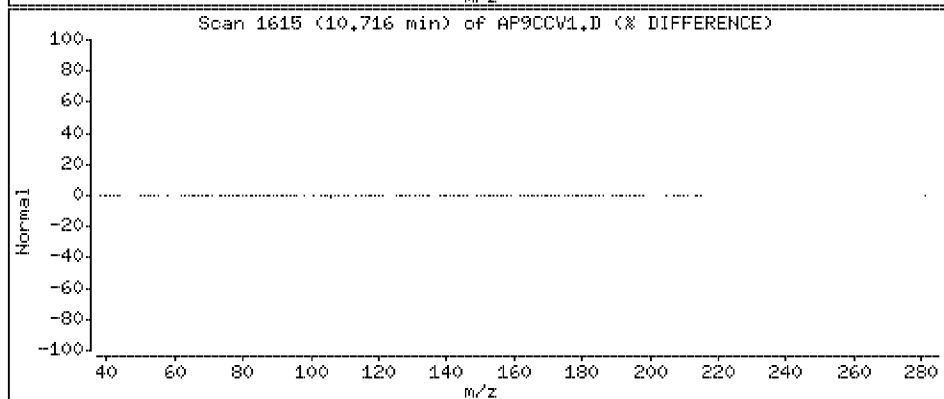
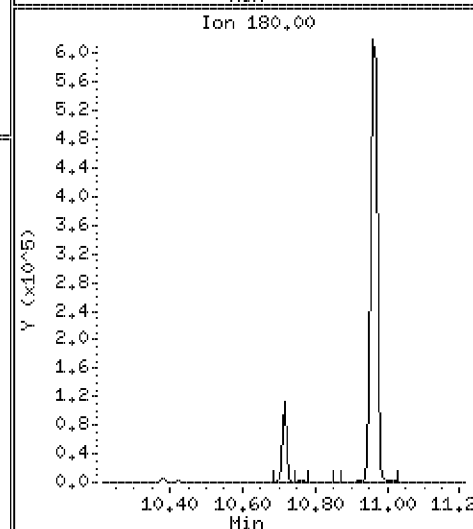
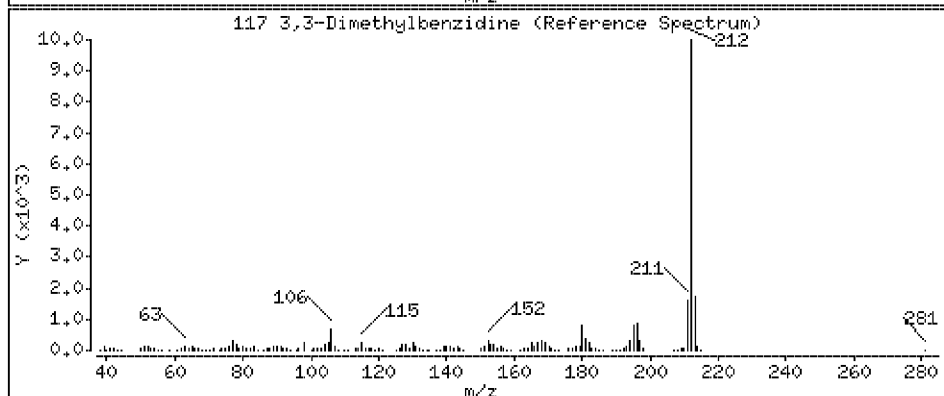
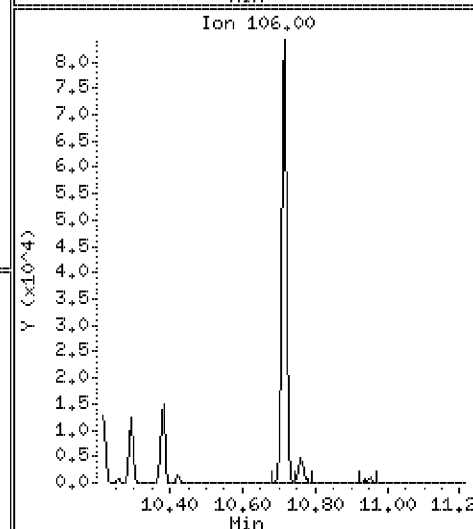
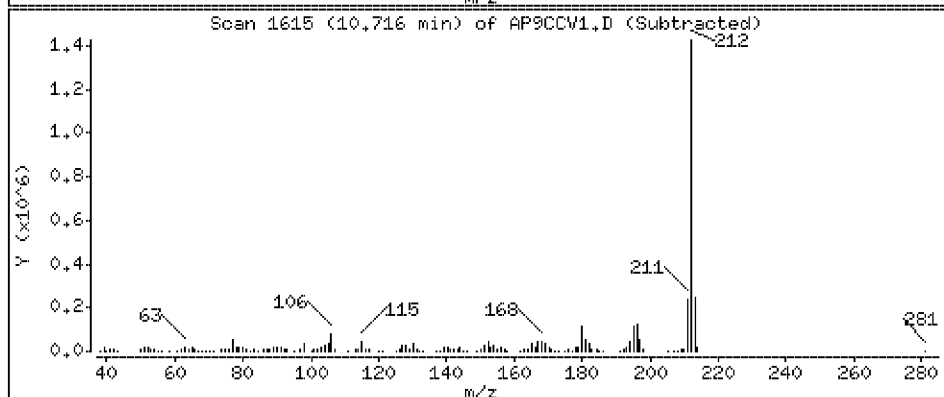
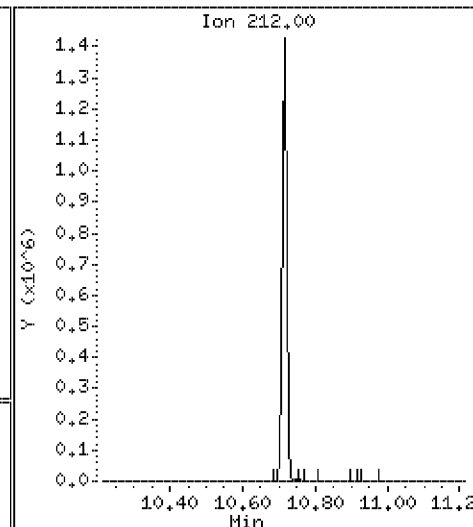
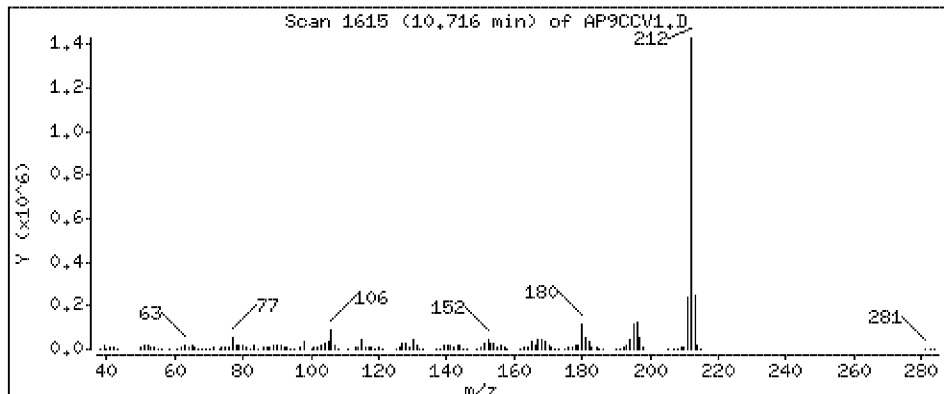
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

117 3,3-Dimethylbenzidine

Concentration: 46.4 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

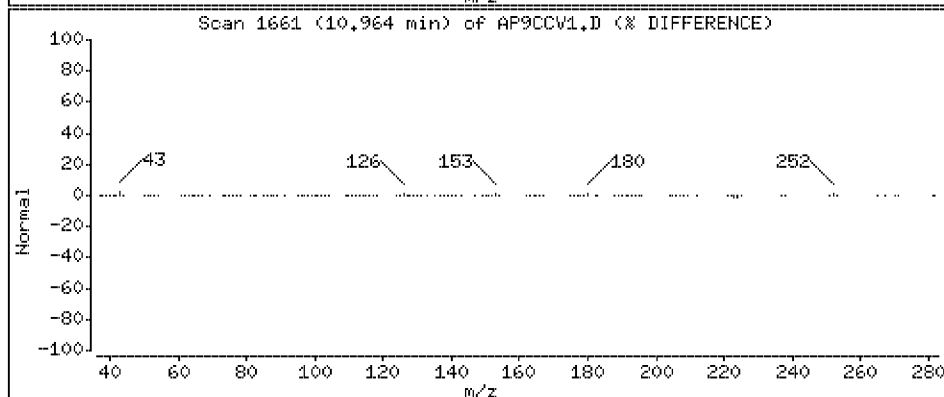
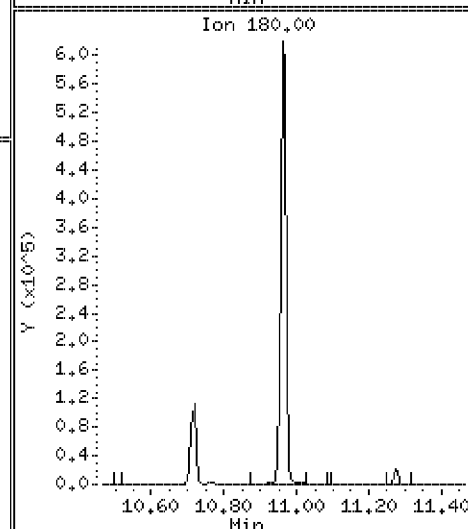
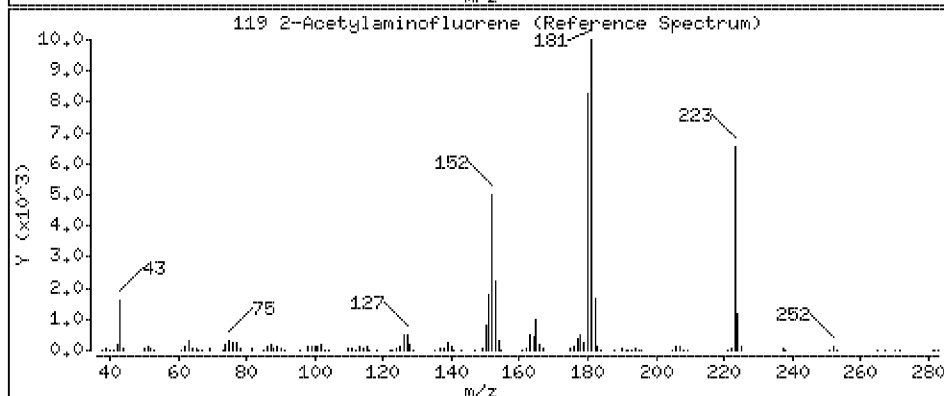
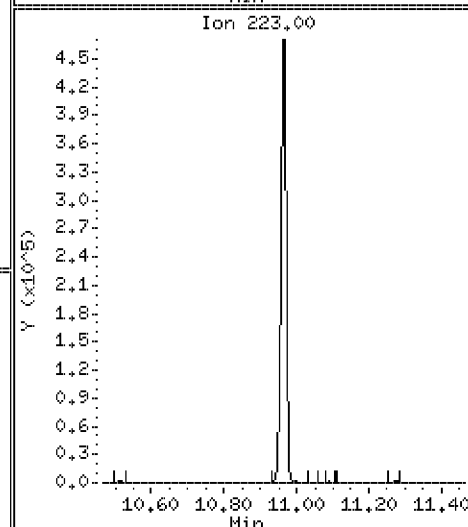
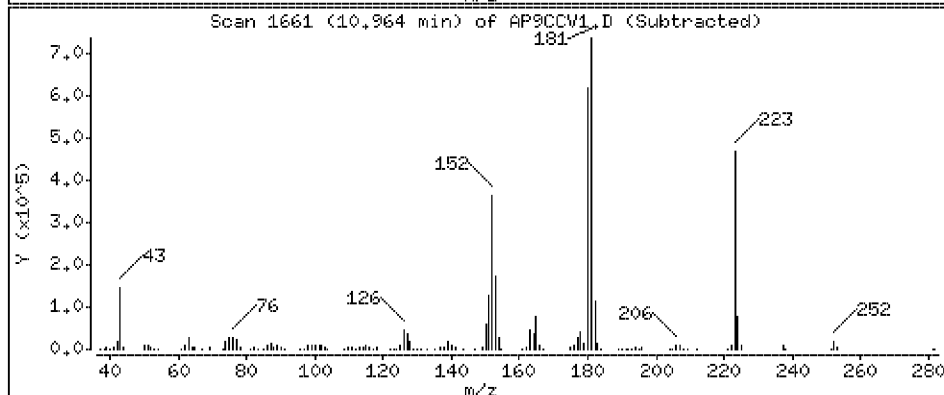
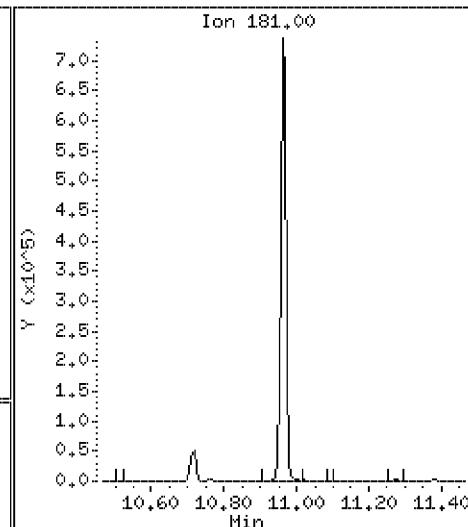
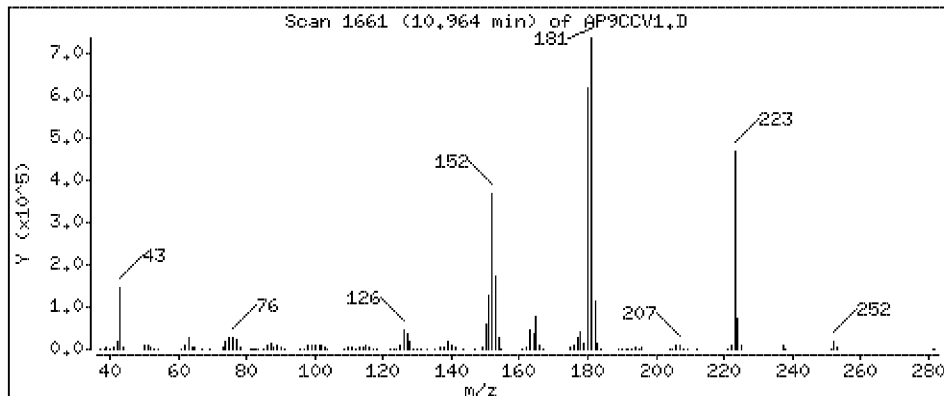
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

119 2-Acetylaminofluorene

Concentration: 48.4 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

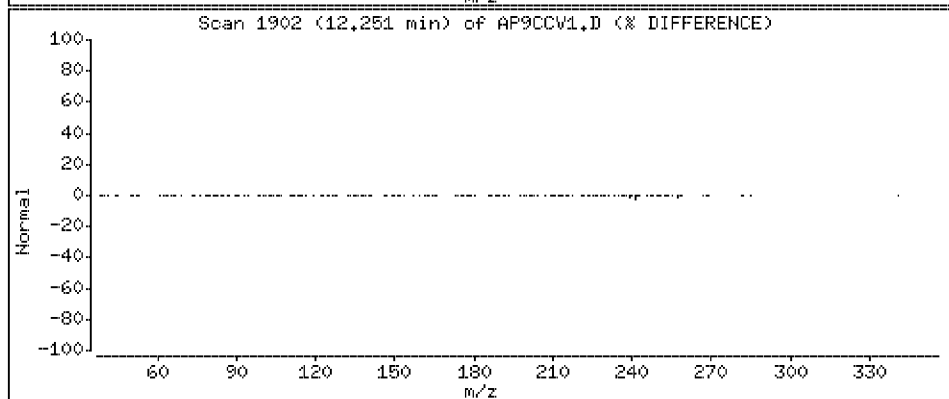
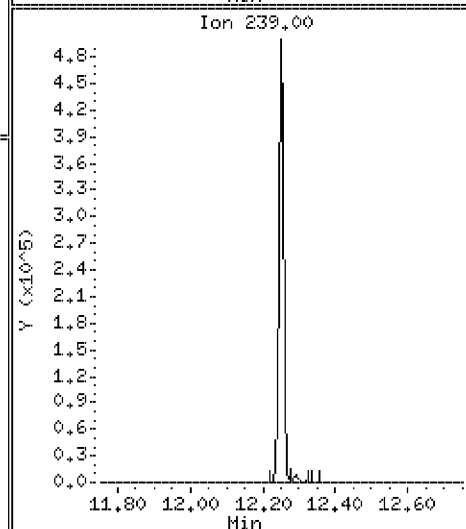
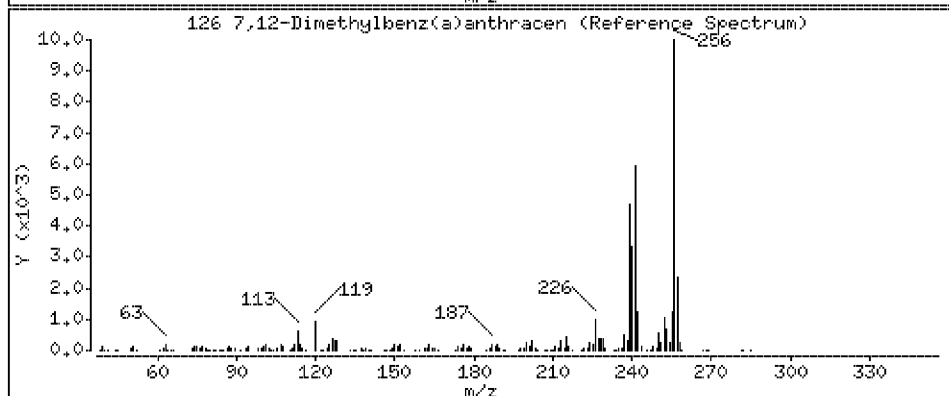
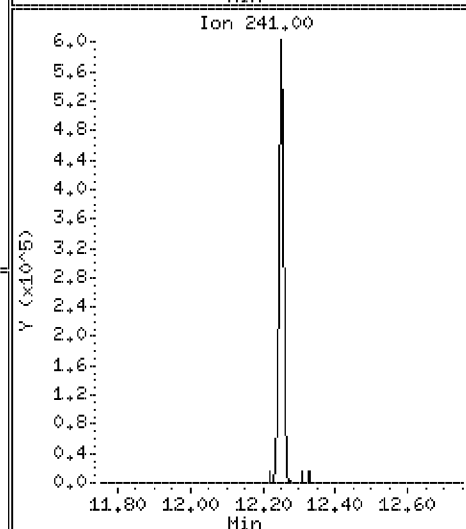
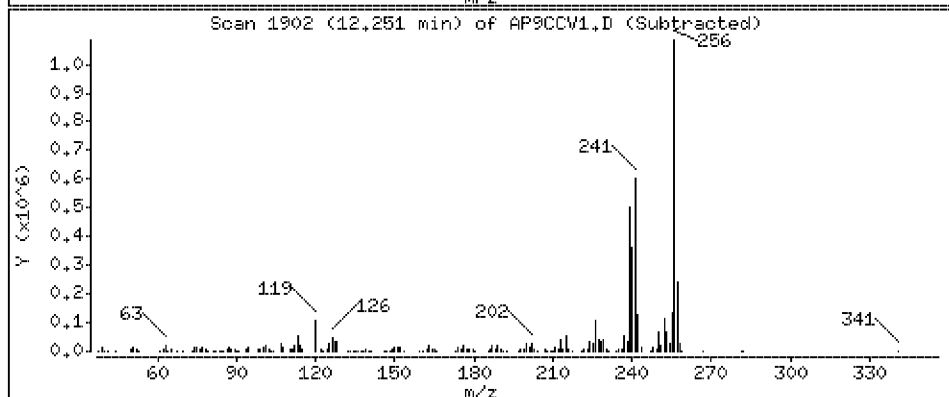
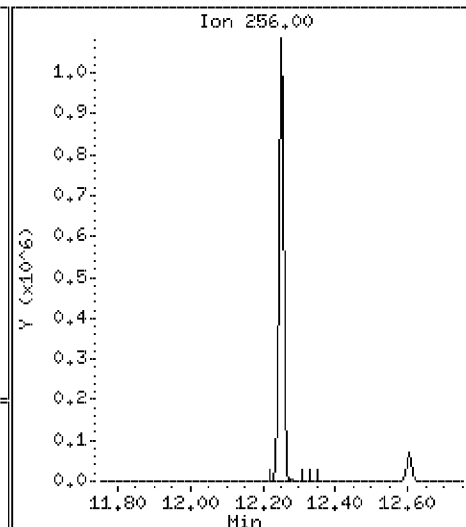
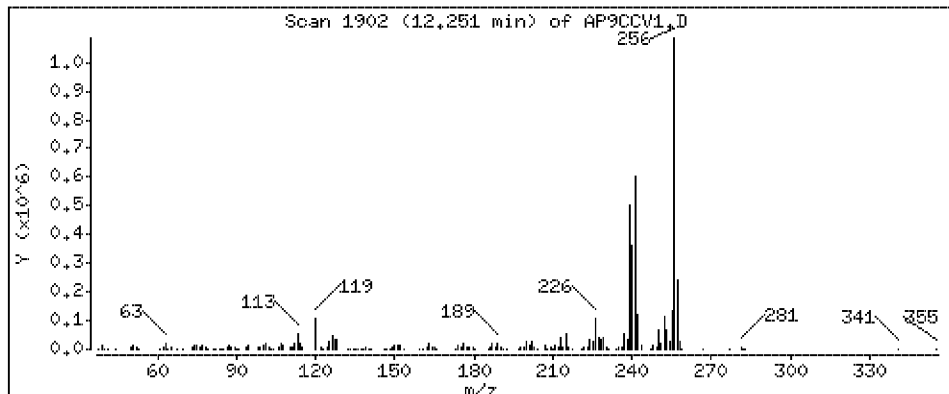
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

126 7,12-Dimethylbenz(a)anthracen

Concentration: 45.9 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

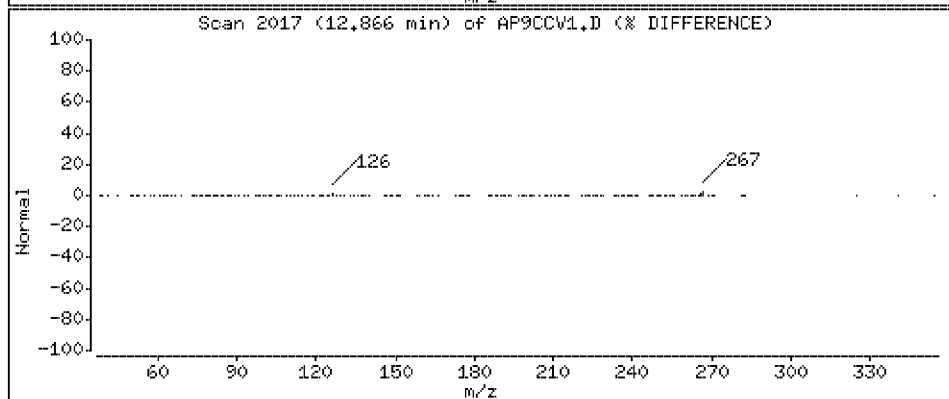
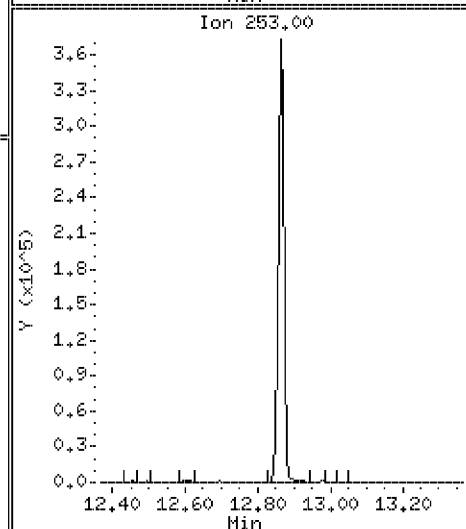
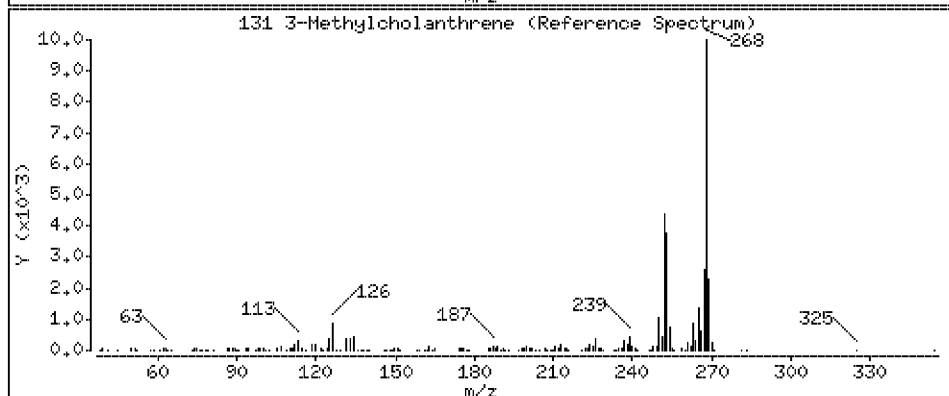
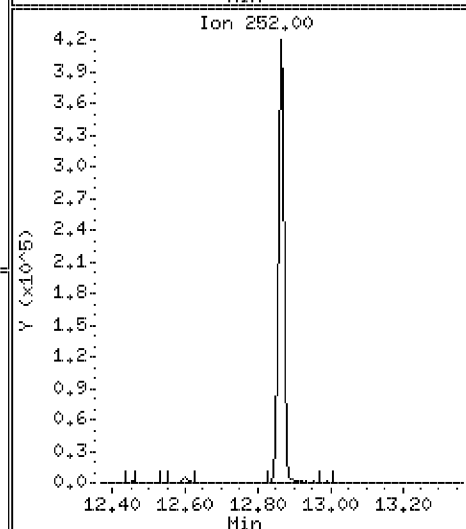
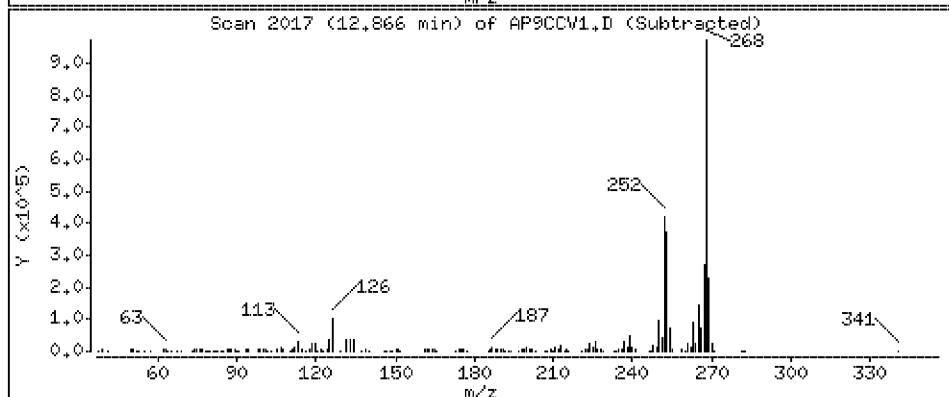
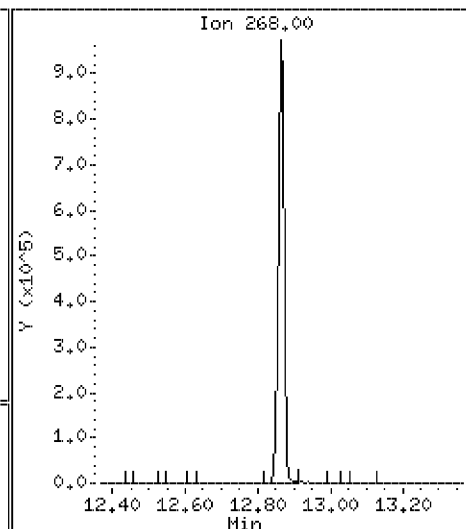
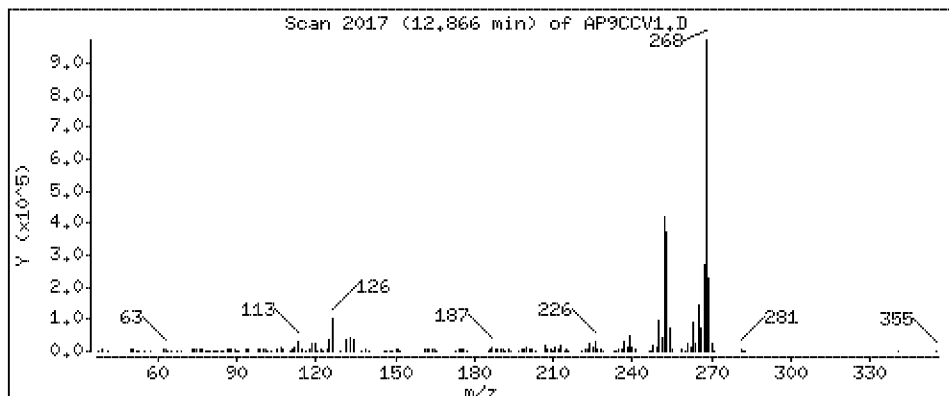
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

131 3-Methylcholanthrene

Concentration: 44.8 ug/l



Date : 03-MAY-2012 11:39

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

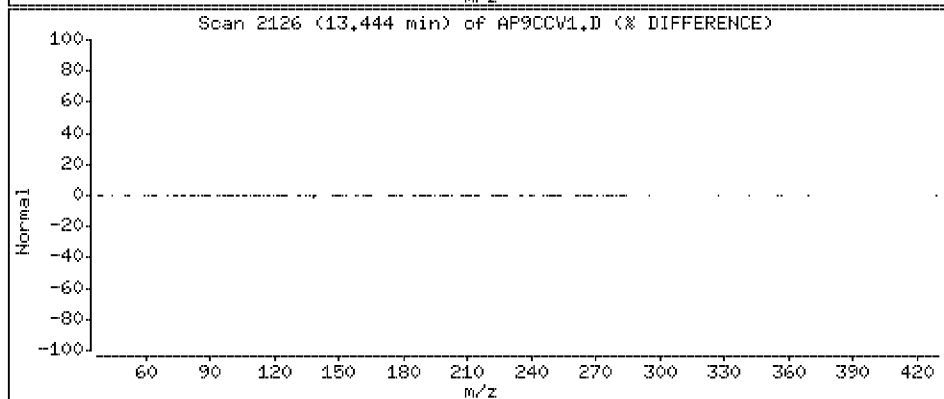
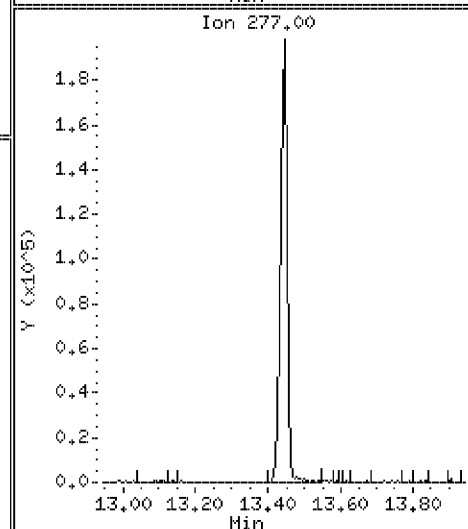
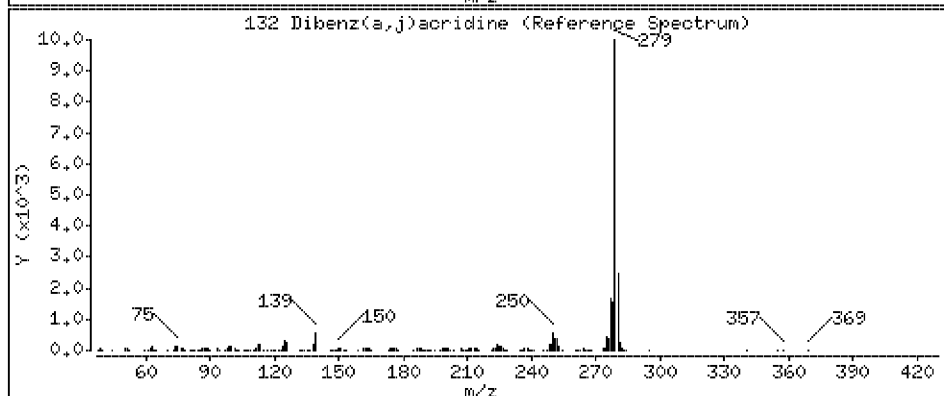
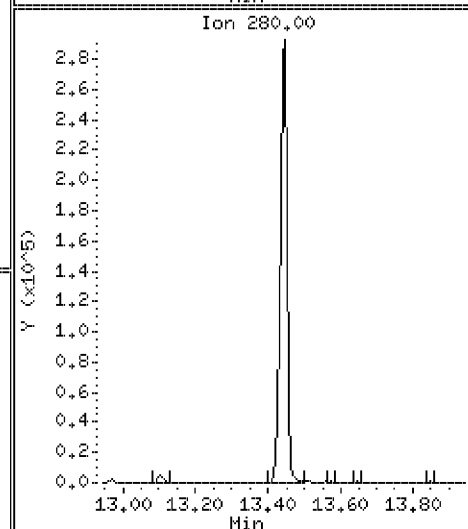
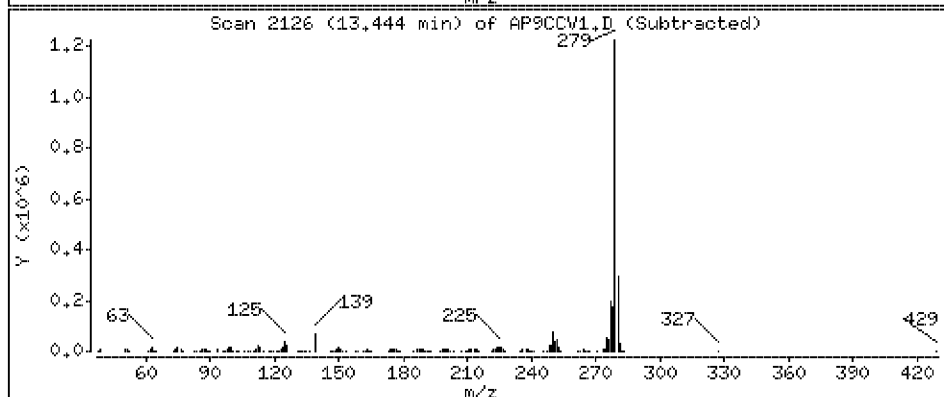
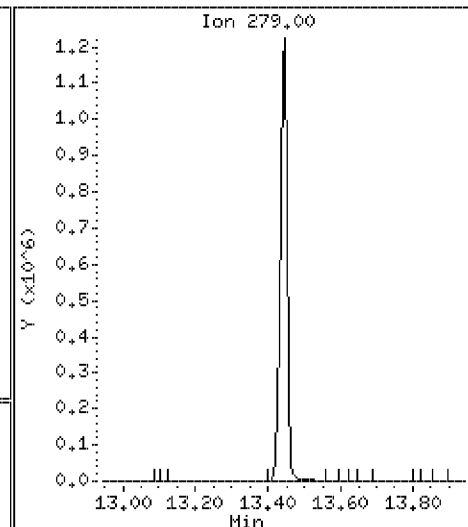
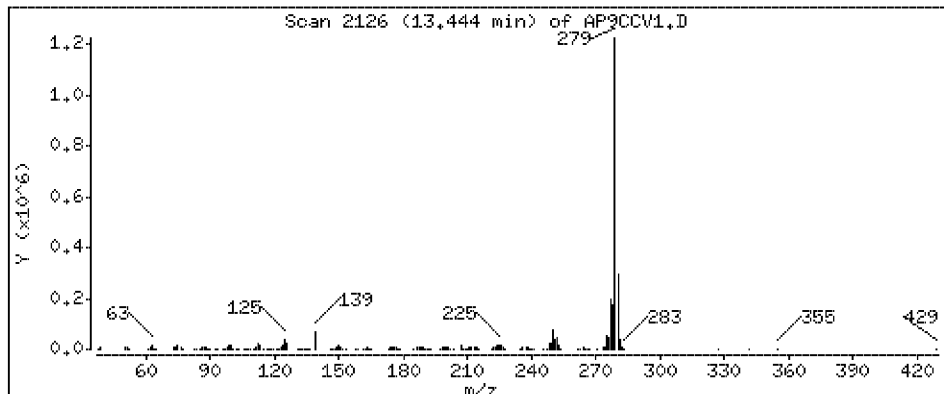
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

132 Dibenz(a,j)acridine

Concentration: 46.9 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3050312.b\8270CCV2.D
 Lab Smp Id: 45924 Client Smp ID: 8270CCV2
 Inj Date : 03-MAY-2012 12:03 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 45924
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3050312.b\8270bcs.m
 Meth Date : 03-May-2012 14:03 smsd03.i Quant Type: ISTD
 Cal Date : 23-APR-2012 18:17 Cal File: AP9CAL4.D
 Als bottle: 4 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: 8270caln.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
2 Pyridine CAS #: 110-86-1									
2.293	2.293	(0.525)	79	418955	45.0000	46.6	80.00- 120.00	100.00	
2.293	2.293	(0.525)	52	165332			9.46- 69.46	39.46	
M 16 Cresols (Total) CAS #: 1319-77-3									
				718777	90.0000			(a)	
1 N-Nitrosodimethylamine CAS #: 62-75-9									
2.253	2.253	(0.516)	42	209161	45.0000	51.4	80.00- 120.00	100.00	
2.254	2.254	(0.516)	74	269359			98.78- 158.78	128.78	
2.254	2.254	(0.516)	44	8326			0.00- 33.98	3.98	
\$ 6 2-Fluorophenol (SURR) CAS #: 367-12-4									
3.294	3.294	(0.754)	112	640498	90.0000	92.6	80.00- 120.00	100.00	
3.294	3.294	(0.754)	64	403610			33.02- 93.02	63.02	
\$ 11 Phenol-d5 (SURR) CAS #: 4165-62-2									
4.054	4.054	(0.928)	99	860593	90.0000	92.8	80.00- 120.00	100.00	
4.054	4.054	(0.928)	42	175328			0.00- 50.37	20.37	
4.054	4.054	(0.928)	71	492788			27.26- 87.26	57.26	
13 Phenol CAS #: 108-95-2									
4.065	4.065	(0.931)	94	473120	45.0000	44.9	80.00- 120.00	100.00(Q)	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
13 Phenol (continued)									
4.065	4.065	(0.931)	65	190370			10.24- 70.24	40.24	
4.064	4.064	(0.931)	66	358386			45.75- 105.75	75.75	

10 Aniline CAS #: 62-53-3									
4.088	4.088	(0.936)	93	486660	45.0000	43.6	80.00- 120.00	100.00(Q)	
4.087	4.087	(0.936)	65	105396			0.00- 51.66	21.66	
4.087	4.087	(0.936)	66	193070			9.67- 69.67	39.67	

14 Bis(2-Chloroethyl)ether CAS #: 111-44-4									
4.131	4.131	(0.946)	93	304818	45.0000	46.1	80.00- 120.00	100.00	
4.131	4.131	(0.946)	63	214190			40.27- 100.27	70.27	
4.131	4.131	(0.946)	95	95264			1.25- 61.25	31.25	

15 2-Chlorophenol CAS #: 95-57-8									
4.195	4.195	(0.960)	128	315969	45.0000	45.6	80.00- 120.00	100.00	
4.194	4.194	(0.960)	64	167792			23.10- 83.10	53.10	
4.195	4.195	(0.960)	130	102997			2.60- 62.60	32.60	

17 1,3-Dichlorobenzene CAS #: 541-73-1									
4.320	4.320	(0.989)	146	387664	45.0000	45.7	80.00- 120.00	100.00	
4.320	4.320	(0.989)	148	257930			36.53- 96.53	66.53	
4.320	4.320	(0.989)	111	178851			16.14- 76.14	46.14	

* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.367	4.367	(1.000)	152	239363	40.0000		80.00- 120.00	100.00	
4.367	4.367	(1.000)	115	150508			32.88- 92.88	62.88	
4.367	4.367	(1.000)	150	405481			139.40- 199.40	169.40	

19 1,4-Dichlorobenzene CAS #: 106-46-7									
4.382	4.382	(1.003)	146	408507	45.0000	45.6	80.00- 120.00	100.00	
4.382	4.382	(1.003)	148	268515			35.73- 95.73	65.73	
4.382	4.382	(1.003)	111	181966			14.54- 74.54	44.54	

21 Benzyl alcohol CAS #: 100-51-6									
4.487	4.487	(1.027)	108	216693	45.0000	45.7	80.00- 120.00	100.00	
4.487	4.487	(1.027)	79	408352			158.45- 218.45	188.45	
4.487	4.487	(1.027)	77	288694			103.23- 163.23	133.23	

20 1,2-Dichlorobenzene CAS #: 95-50-1									
4.519	4.519	(1.035)	146	367483	45.0000	45.1	80.00- 120.00	100.00	
4.519	4.519	(1.035)	148	251416			38.42- 98.42	68.42	
4.519	4.519	(1.035)	111	175956			17.88- 77.88	47.88	

22 2-Methylphenol CAS #: 95-48-7									
4.587	4.587	(1.050)	107	283951	45.0000	45.3	80.00- 120.00	100.00	
4.587	4.587	(1.050)	108	310281			79.27- 139.27	109.27	
4.588	4.588	(1.050)	79	254841			59.75- 119.75	89.75	

23 2,2'-oxybis(1-chloropropane) CAS #: 108-60-1									
4.598	4.598	(1.053)	45	195826	45.0000	42.3	80.00- 120.00	100.00	
4.588	4.588	(1.050)	77	288220			117.18- 177.18	147.18	
4.599	4.599	(1.053)	121	101128			21.64- 81.64	51.64	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
28 4-Methylphenol CAS #: 106-44-5									
4.725	4.725	(1.082)	107	434826	45.0000	48.0	80.00- 120.00	100.00	
4.725	4.725	(1.082)	108	346133			49.60- 109.60	79.60	
4.725	4.725	(1.082)	79	147910			4.02- 64.02	34.02	

26 N-Nitrosodipropylamine CAS #: 621-64-7									
4.721	4.721	(1.081)	70	338394	45.0000	48.0	80.00- 120.00	100.00	
4.721	4.721	(1.081)	42	132714			9.22- 69.22	39.22	
4.722	4.722	(1.081)	130	64979			0.00- 49.20	19.20	

30 Hexachloroethane CAS #: 67-72-1									
4.821	4.821	(1.104)	117	168343	45.0000	47.6	80.00- 120.00	100.00	
4.822	4.822	(1.104)	201	200773			89.26- 149.26	119.26	
4.822	4.822	(1.104)	199	127378			45.67- 105.67	75.67	

\$ 31 Nitrobenzene-d5 (SURR) CAS #: 4165-60-0									
4.864	4.864	(0.880)	82	509596	45.0000	48.6	80.00- 120.00	100.00	
4.865	4.865	(0.880)	128	158020			1.01- 61.01	31.01	
4.865	4.865	(0.880)	54	193488			7.97- 67.97	37.97	

32 Nitrobenzene CAS #: 98-95-3									
4.882	4.882	(0.883)	77	492883	45.0000	47.6	80.00- 120.00	100.00	
4.883	4.883	(0.883)	123	159303			2.32- 62.32	32.32	
4.882	4.882	(0.883)	65	74310			0.00- 45.08	15.08	

34 Isophorone CAS #: 78-59-1									
5.097	5.097	(0.922)	82	588412	45.0000	46.7	80.00- 120.00	100.00	
5.098	5.098	(0.922)	138	93600			0.00- 45.91	15.91	
5.097	5.097	(0.922)	95	54167			0.00- 39.21	9.21	

35 2-Nitrophenol CAS #: 88-75-5									
5.174	5.174	(0.936)	139	179568	45.0000	46.9	80.00- 120.00	100.00	
5.173	5.173	(0.936)	65	134131			44.70- 104.70	74.70	
5.174	5.174	(0.936)	109	95984			23.45- 83.45	53.45	

36 2,4-Dimethylphenol CAS #: 105-67-9									
5.212	5.212	(0.943)	122	269901	45.0000	45.8	80.00- 120.00	100.00	
5.212	5.212	(0.943)	107	386128			113.06- 173.06	143.06	
5.212	5.212	(0.943)	121	159101			28.95- 88.95	58.95	

38 Bis(2-Chloroethoxy)methane CAS #: 111-91-1									
5.292	5.292	(0.957)	93	390621	45.0000	45.7	80.00- 120.00	100.00	
5.292	5.292	(0.957)	95	127265			2.58- 62.58	32.58	
5.293	5.293	(0.957)	123	51593			0.00- 43.21	13.21	

40 Benzoic Acid CAS #: 65-85-0									
5.315	5.315	(0.961)	122	129235	45.0000	33.0	80.00- 120.00	100.00	
5.314	5.314	(0.961)	105	186578			114.37- 174.37	144.37	
5.313	5.313	(0.961)	77	189090			116.31- 176.31	146.31	

41 2,4-Dichlorophenol CAS #: 120-83-2									
5.403	5.403	(0.977)	162	333865	45.0000	48.0	80.00- 120.00	100.00	
5.403	5.403	(0.977)	164	217912			35.27- 95.27	65.27	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
41 2,4-Dichlorophenol (continued)									
5.402	5.402	(0.977)	98	115471			4.59- 64.59	34.59	

42 1,2,4-Trichlorobenzene CAS #: 120-82-1									
5.475	5.475	(0.990)	180	407112	45.0000	46.8	80.00- 120.00	100.00	
5.475	5.475	(0.990)	182	399129			68.04- 128.04	98.04	
5.475	5.475	(0.990)	145	114810			0.00- 58.20	28.20	

* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.530	5.530	(1.000)	136	777490	40.0000		80.00- 120.00	100.00	
5.529	5.529	(1.000)	68	39696			0.00- 35.11	5.11	

44 Naphthalene CAS #: 91-20-3									
5.550	5.550	(1.004)	128	923371	45.0000	46.3	80.00- 120.00	100.00	
5.549	5.549	(1.004)	129	105335			0.00- 41.41	11.41	
5.550	5.550	(1.004)	127	130663			0.00- 43.27	14.15	

45 4-Chloroaniline CAS #: 106-47-8									
5.602	5.602	(1.013)	127	376628	45.0000	44.9	80.00- 120.00	100.00	
5.602	5.602	(1.013)	129	119742			1.79- 61.79	31.79	
5.601	5.601	(1.013)	65	167339			14.43- 74.43	44.43	

48 Hexachlorobutadiene CAS #: 87-68-3									
5.666	5.666	(1.025)	225	332828	45.0000	50.1	80.00- 120.00	100.00	
5.666	5.666	(1.025)	223	202036			30.70- 90.70	60.70	
5.667	5.667	(1.025)	227	217701			35.41- 95.41	65.41	

51 4-Chloro-3-methylphenol CAS #: 59-50-7									
6.073	6.073	(1.098)	107	320766	45.0000	47.9	80.00- 120.00	100.00	
6.073	6.073	(1.098)	144	80037			0.00- 54.95	24.95	
6.073	6.073	(1.098)	142	240344			44.93- 104.93	74.93	

53 2-Methylnaphthalene CAS #: 91-57-6									
6.209	6.209	(1.123)	142	685197	45.0000	47.2	80.00- 120.00	100.00	
6.209	6.209	(1.123)	141	591672			56.35- 116.35	86.35	

54 1-Methylnaphthalene CAS #: 90-12-0									
6.305	6.305	(1.140)	142	615034	45.0000	46.6	80.00- 120.00	100.00	
6.305	6.305	(1.140)	141	558141			60.75- 120.75	90.75	

55 Hexachlorocyclopentadiene CAS #: 77-47-4									
6.365	6.365	(0.881)	237	424391	45.0000	49.8	80.00- 120.00	100.00	
6.365	6.365	(0.881)	235	258010			30.80- 90.80	60.80	
6.366	6.366	(0.881)	272	56647			0.00- 43.35	13.35	

57 2,4,6-Trichlorophenol CAS #: 88-06-2									
6.488	6.488	(0.898)	196	297298	45.0000	44.2	80.00- 120.00	100.00	
6.489	6.489	(0.898)	198	281355			64.64- 124.64	94.64	
6.488	6.488	(0.898)	200	91621			0.82- 60.82	30.82	

58 2,4,5-Trichlorophenol CAS #: 95-95-4									
6.529	6.529	(0.904)	196	321935	45.0000	51.8	80.00- 120.00	100.00	
6.529	6.529	(0.904)	198	305185			64.80- 124.80	94.80	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
58 2,4,5-Trichlorophenol (continued)									
6.528	6.528	(0.904)	97	173725			23.96-	83.96	53.96

\$ 59 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.565	6.565	(0.909)	172	995232	45.0000	47.6	80.00-	120.00	100.00
6.565	6.565	(0.909)	171	349187			5.09-	65.09	35.09

62 2-Chloronaphthalene CAS #: 91-58-7									
6.682	6.682	(0.925)	162	734344	45.0000	46.4	80.00-	120.00	100.00
6.682	6.682	(0.925)	164	248284			3.81-	63.81	33.81
6.682	6.682	(0.925)	127	281212			8.29-	68.29	38.29

63 2-Nitroaniline CAS #: 88-74-4									
6.788	6.788	(0.940)	65	253237	45.0000	46.4	80.00-	120.00	100.00
6.789	6.789	(0.940)	92	153463			30.60-	90.60	60.60
6.789	6.789	(0.940)	138	205847			51.29-	111.29	81.29

65 Dimethylphthalate CAS #: 131-11-3									
6.962	6.962	(0.964)	163	854637	45.0000	47.0	80.00-	120.00	100.00
6.962	6.962	(0.964)	194	53471			0.00-	36.26	6.26
6.962	6.962	(0.964)	164	95029			0.00-	40.55	11.12

68 Acenaphthylene CAS #: 208-96-8									
7.086	7.086	(0.981)	152	1104477	45.0000	47.2	80.00-	120.00	100.00
7.086	7.086	(0.981)	151	221064			0.00-	50.02	20.02
7.086	7.086	(0.981)	153	148927			0.00-	43.48	13.48

67 2,6-Dinitrotoluene CAS #: 606-20-2									
7.023	7.023	(0.972)	165	192186	45.0000	46.7	80.00-	120.00	100.00
7.022	7.022	(0.972)	89	155737			51.03-	111.03	81.03
7.022	7.022	(0.972)	63	156846			51.61-	111.61	81.61

69 3-Nitroaniline CAS #: 99-09-2									
7.192	7.192	(0.995)	138	161422	45.0000	44.2	80.00-	120.00	100.00
7.192	7.192	(0.996)	108	18342			0.00-	41.36	11.36
7.192	7.192	(0.995)	92	218599			105.42-	165.42	135.42

* 70 Acenaphthene-d10 CAS #: 15067-26-2									
7.225	7.225	(1.000)	164	540197	40.0000		80.00-	120.00	100.00
7.225	7.225	(1.000)	162	517617			65.82-	125.82	95.82
7.225	7.225	(1.000)	160	238650			14.18-	74.18	44.18

71 Acenaphthene CAS #: 83-32-9									
7.257	7.257	(1.004)	154	654088	45.0000	46.0	80.00-	120.00	100.00
7.257	7.257	(1.004)	153	712888			78.99-	138.99	108.99
7.257	7.257	(1.004)	152	351230			23.70-	83.70	53.70

72 2,4-Dinitrophenol CAS #: 51-28-5									
7.290	7.290	(1.009)	184	107607	45.0000	40.8	80.00-	120.00	100.00
7.289	7.289	(1.009)	63	83403			47.51-	107.51	77.51
7.291	7.291	(1.009)	154	75650			40.30-	100.30	70.30

74 4-Nitrophenol CAS #: 100-02-7									
7.380	7.380	(1.021)	109	202589	45.0000	51.0	80.00-	120.00	100.00

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
74 4-Nitrophenol (continued)									
7.380	7.380	(1.021)	139	131725			35.02- 95.02	65.02	
7.379	7.379	(1.021)	65	194078			65.80- 125.80	95.80	

75 Dibenzofuran CAS #: 132-64-9									
7.425	7.425	(1.028)	168	1106004	45.0000	47.8	80.00- 120.00	100.00	
7.425	7.425	(1.028)	139	462275			11.80- 71.80	41.80	

76 2,4-Dinitrotoluene CAS #: 121-14-2									
7.417	7.417	(1.027)	165	267594	45.0000	46.4	80.00- 120.00	100.00	
7.418	7.418	(1.027)	63	249784			63.34- 123.34	93.34	
7.416	7.416	(1.027)	89	287393			77.40- 137.40	107.40	

80 Diethylphthalate CAS #: 84-66-2									
7.651	7.651	(1.059)	149	798108	45.0000	47.5	80.00- 120.00	100.00	
7.651	7.651	(1.059)	177	190051			0.00- 53.81	23.81	
7.651	7.651	(1.059)	150	97388			0.00- 42.20	12.20	

81 Fluorene CAS #: 86-73-7									
7.760	7.760	(1.074)	166	989240	45.0000	49.4	80.00- 120.00	100.00	
7.760	7.760	(1.074)	165	934568			64.47- 124.47	94.47	
7.760	7.760	(1.074)	167	137523			0.00- 43.90	13.90	

82 4-Chlorophenyl-phenylether CAS #: 7005-72-3									
7.759	7.759	(1.074)	204	598690	45.0000	49.9	80.00- 120.00	100.00	
7.758	7.758	(1.074)	206	204334			4.13- 64.13	34.13	
7.758	7.758	(1.074)	141	327516			24.71- 84.71	54.71	

84 4-Nitroaniline CAS #: 100-01-6									
7.795	7.795	(1.079)	138	127414	45.0000	40.3	80.00- 120.00	100.00	
7.794	7.794	(1.079)	92	90317			40.88- 100.88	70.88	
7.794	7.794	(1.079)	108	230436			150.86- 210.86	180.86	

85 4,6-Dinitro-2-methylphenol CAS #: 534-52-1									
7.818	7.818	(0.901)	198	184864	45.0000	41.8	80.00- 120.00	100.00	
7.816	7.816	(0.901)	51	71925			8.91- 68.91	38.91	
7.817	7.817	(0.901)	105	66931			6.21- 66.21	36.21	

86 N-Nitrosodiphenylamine CAS #: 86-30-6									
7.878	7.878	(0.908)	169	563449	45.0000	43.7	80.00- 120.00	100.00	
7.878	7.878	(0.908)	168	366215			35.00- 95.00	65.00	
7.878	7.878	(0.908)	167	203909			6.19- 66.19	36.19	

87 1,2-Diphenylhydrazine CAS #: 122-66-7									
7.914	7.914	(1.095)	77	952111	45.0000	49.3	80.00- 120.00	100.00	
7.915	7.915	(1.096)	105	115627			0.00- 42.14	12.14	
7.916	7.916	(1.096)	182	234459			0.00- 54.63	24.63	

\$ 88 2,4,6-Tribromophenol (SURR) CAS #: 118-79-6									
8.001	8.001	(1.108)	330	369174	90.0000	97.8	80.00- 120.00	100.00	
8.001	8.001	(1.108)	332	360833			67.74- 127.74	97.74	
7.999	7.999	(1.107)	141	152170			11.22- 71.22	41.22	

AMOUNTS										
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO		
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	
93 4-Bromophenylphenylether										
						CAS #:	101-55-3			
8.237	8.237	(0.949)	248	340928	45.0000	45.6	80.00- 120.00	100.00		
8.237	8.237	(0.949)	250	332823			67.62- 127.62	97.62		
8.236	8.236	(0.949)	141	219836			34.48- 94.48	64.48		

94 Hexachlorobenzene										
						CAS #:	118-74-1			
8.305	8.305	(0.957)	284	390749	45.0000	45.5	80.00- 120.00	100.00		
8.304	8.304	(0.957)	142	127493			2.63- 62.63	32.63		
8.305	8.305	(0.957)	249	120204			0.76- 60.76	30.76		

96 Pentachlorophenol										
						CAS #:	87-86-5			
8.501	8.501	(0.979)	266	240414	45.0000	47.6	80.00- 120.00	100.00		
8.501	8.501	(0.979)	264	146346			30.87- 90.87	60.87		
8.501	8.501	(0.979)	268	153097			33.68- 93.68	63.68		

* 100 Phenanthrene-d10										
						CAS #:	1517-22-2			
8.679	8.679	(1.000)	188	1022626	40.0000		80.00- 120.00	100.00		
8.678	8.678	(1.000)	94	56535			0.00- 35.53	5.53		
8.678	8.678	(1.000)	80	75054			0.00- 37.34	7.34		

101 Phenanthrene										
						CAS #:	85-01-8			
8.703	8.703	(1.003)	178	1219543	45.0000	46.3	80.00- 120.00	100.00		
8.703	8.703	(1.003)	179	194559			0.00- 45.95	15.95		
8.703	8.703	(1.003)	176	244417			0.00- 50.04	20.04		

103 Anthracene										
						CAS #:	120-12-7			
8.752	8.752	(1.008)	178	1230685	45.0000	46.9	80.00- 120.00	100.00		
8.752	8.752	(1.008)	179	190797			0.00- 45.50	15.50		
8.752	8.752	(1.008)	176	243527			0.00- 49.79	19.79		

104 Carbazole										
						CAS #:	86-74-8			
8.914	8.914	(1.027)	167	971171	45.0000	44.4	80.00- 120.00	100.00		
8.914	8.914	(1.027)	139	135793			0.00- 43.98	13.98		
8.914	8.914	(1.027)	83	53994			0.00- 35.56	5.56		

105 Di-n-butylphthalate										
						CAS #:	84-74-2			
9.249	9.249	(1.066)	149	1330480	45.0000	48.2	80.00- 120.00	100.00		
9.249	9.249	(1.066)	150	123407			0.00- 39.28	9.28		
9.248	9.248	(1.066)	104	112726			0.00- 38.47	8.47		

109 Fluoranthene										
						CAS #:	206-44-0			
9.870	9.870	(1.137)	202	1440716	45.0000	47.7	80.00- 120.00	100.00		
9.869	9.869	(1.137)	101	88652			0.00- 36.15	6.15		
9.870	9.870	(1.137)	203	270591			0.00- 48.78	18.78		

111 Pyrene										
						CAS #:	129-00-0			
10.093	10.093	(0.895)	202	1554885	45.0000	43.9	80.00- 120.00	100.00		
10.093	10.093	(0.895)	200	344322			0.00- 52.14	22.14		
10.093	10.093	(0.895)	203	294229			0.00- 48.92	18.92		

\$ 112 Terphenyl-d14 (SURR)										
						CAS #:	1718-51-0			
10.242	10.242	(0.908)	244	1480636	45.0000	44.1	80.00- 120.00	100.00		
10.241	10.241	(0.908)	122	91320			0.00- 36.17	6.17		

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 112 Terphenyl-d14 (SURR) (continued)								
10.242	10.242	(0.908)	212	118798			0.00- 38.02	8.02

118 Butylbenzylphthalate						CAS #: 85-68-7		
10.720	10.720	(0.951)	149	639586	45.0000	41.7	80.00- 120.00	100.00
10.719	10.719	(0.950)	91	554951			56.77- 116.77	86.77
10.721	10.721	(0.951)	206	172480			0.00- 56.97	26.97

120 Benzo[a]anthracene						CAS #: 56-55-3		
11.267	11.267	(0.999)	228	1970246	45.0000	44.1	80.00- 120.00	100.00
11.267	11.267	(0.999)	229	404563			0.00- 50.53	20.53
11.267	11.267	(0.999)	226	539798			0.00- 57.40	27.40

* 121 Chrysene-d12						CAS #: 1719-03-5		
11.278	11.278	(1.000)	240	1780657	40.0000		80.00- 120.00	100.00
11.276	11.276	(1.000)	120	100834			0.00- 35.66	5.66
11.278	11.278	(1.000)	236	472739			0.00- 56.55	26.55

123 Chrysene						CAS #: 218-01-9		
11.303	11.303	(1.002)	228	1703561	45.0000	43.5	80.00- 120.00	100.00
11.304	11.304	(1.002)	226	532688			1.27- 61.27	31.27
11.304	11.304	(1.002)	229	360652			0.00- 51.17	21.17

124 Bis-2-Ethylhexylphthalate						CAS #: 117-81-7		
11.274	11.274	(1.000)	149	1223185	45.0000	46.2	80.00- 120.00	100.00
11.275	11.275	(1.000)	167	386564			1.60- 61.60	31.60
11.276	11.276	(1.000)	279	117542			0.00- 39.61	9.61

125 Di-n-octylphthalate						CAS #: 117-84-0		
11.876	11.876	(0.942)	149	1565426	45.0000	48.5	80.00- 120.00	100.00
11.876	11.876	(0.942)	167	26474			0.00- 31.69	1.69
11.875	11.875	(0.942)	43	132363			0.00- 38.46	8.46

127 Benzo[b]fluoranthene						CAS #: 205-99-2		
12.261	12.261	(0.973)	252	1909160	45.0000	47.9	80.00- 120.00	100.00
12.261	12.261	(0.973)	253	421178			0.00- 52.06	22.06
12.260	12.260	(0.973)	125	80379			0.00- 34.21	4.21

128 Benzo[k]fluoranthene						CAS #: 207-08-9		
12.286	12.286	(0.975)	252	1885139	45.0000	47.1	80.00- 120.00	100.00
12.286	12.286	(0.975)	253	450879			0.00- 53.92	23.92
12.285	12.285	(0.975)	125	92080			0.00- 34.88	4.88

129 Benzo[a]pyrene						CAS #: 50-32-8		
12.551	12.551	(0.996)	252	1821173	45.0000	46.8	80.00- 120.00	100.00
12.551	12.551	(0.996)	253	404831			0.00- 52.23	22.23
12.549	12.549	(0.996)	125	88547			0.00- 34.86	4.86

* 130 Perylene-d12						CAS #: 1520-96-3		
12.603	12.603	(1.000)	264	1498951	40.0000		80.00- 120.00	100.00
12.603	12.603	(1.000)	260	365489			0.00- 54.38	24.38
12.603	12.603	(1.000)	265	343078			0.00- 52.89	22.89

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
133 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5				
13.646	13.646	(1.083)	276	2326456	45.0000	48.0	80.00- 120.00	100.00	
13.647	13.647	(1.083)	138	258775			0.00- 41.12	11.12	
13.646	13.646	(1.083)	277	615847			0.00- 56.47	26.47	

134 Dibenz[a,h]anthracene					CAS #: 53-70-3				
13.651	13.651	(1.083)	278	2067233	45.0000	48.8	80.00- 120.00	100.00	
13.649	13.649	(1.083)	139	139850			0.00- 36.77	6.77	
13.651	13.651	(1.083)	279	488650			0.00- 53.64	23.64	

135 Benzo[g,h,i]perylene					CAS #: 191-24-2				
13.942	13.942	(1.106)	276	1717016	45.0000	46.3	80.00- 120.00	100.00	
13.940	13.940	(1.106)	138	154101			0.00- 38.97	8.97	
13.942	13.942	(1.106)	277	421843			0.00- 54.57	24.57	

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.

Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

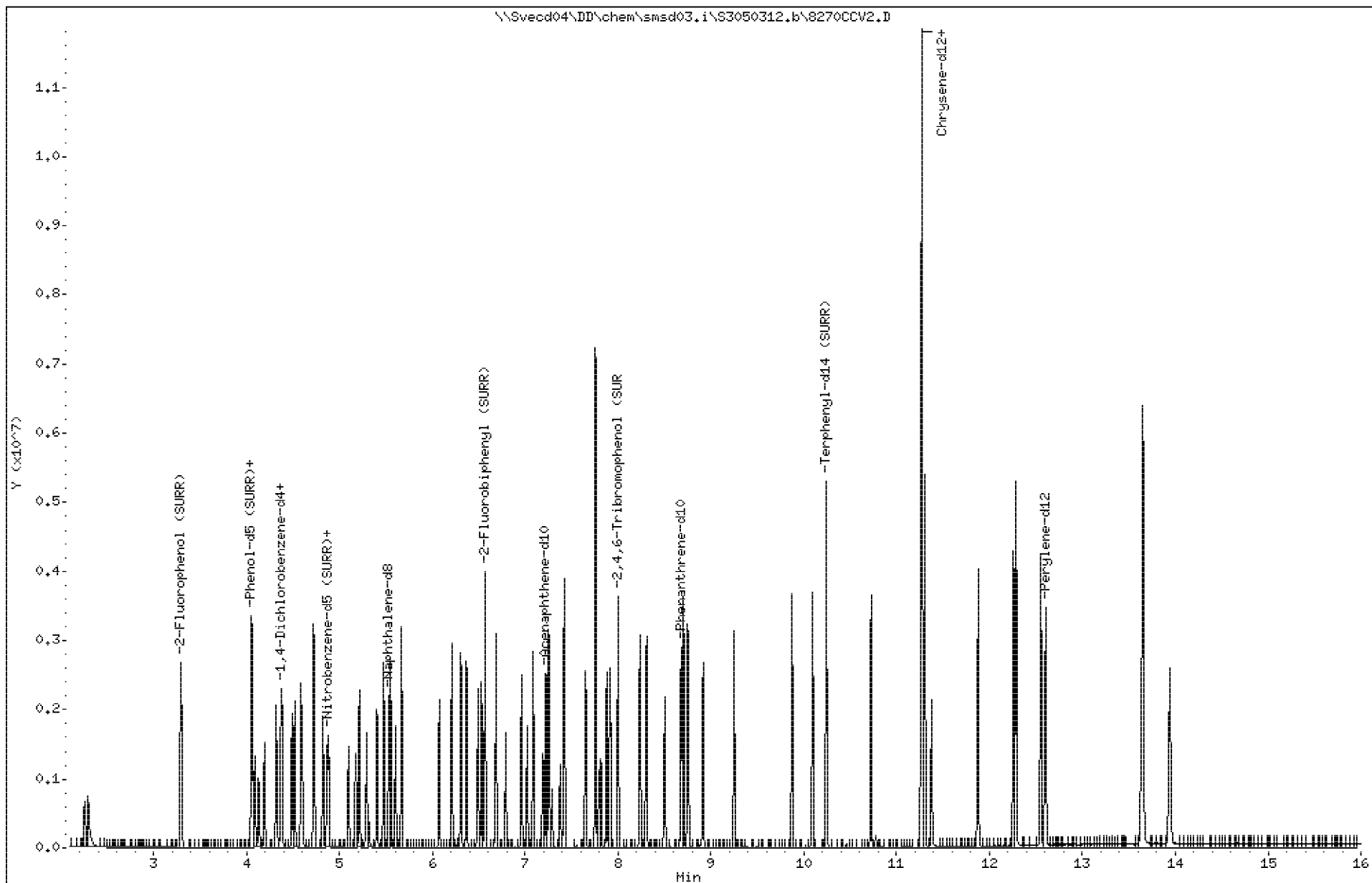
Sample Info: 45924

Purge Volume: 1000.0

Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

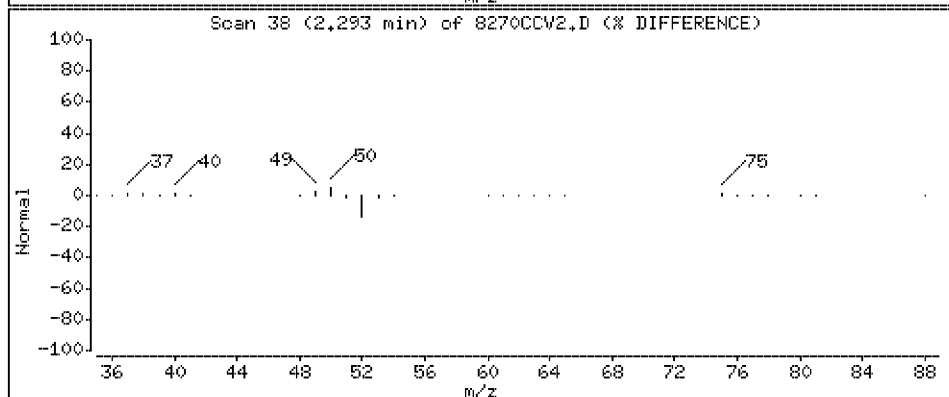
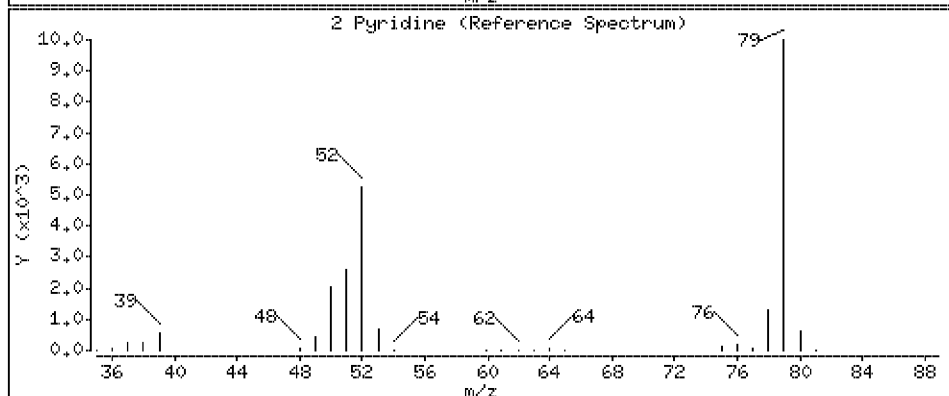
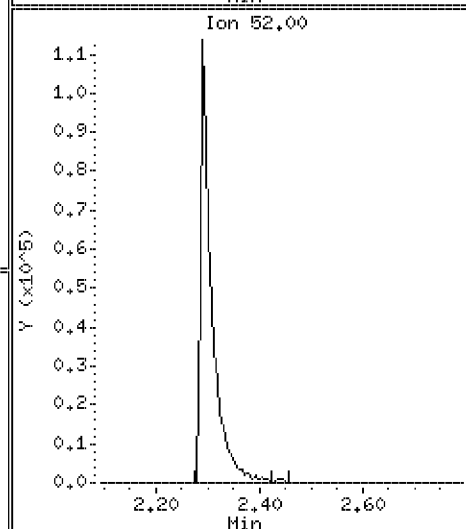
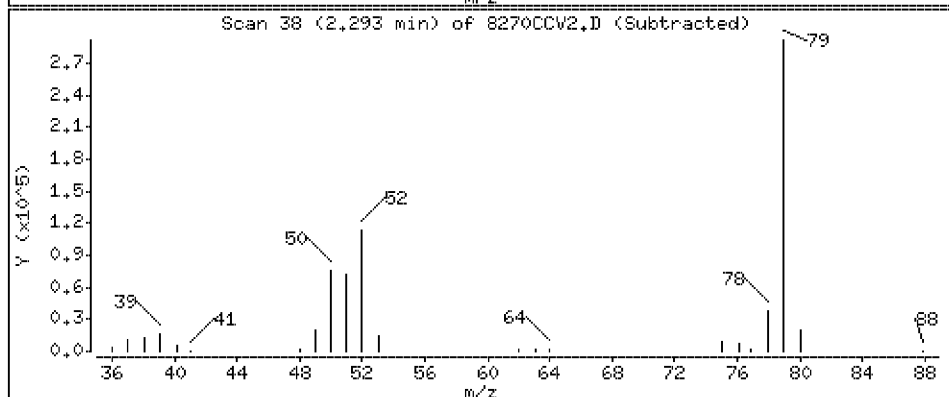
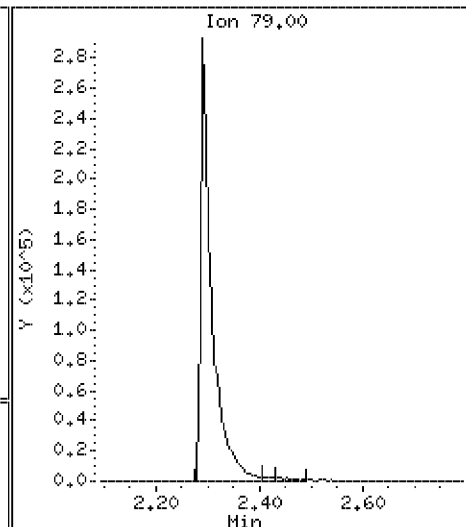
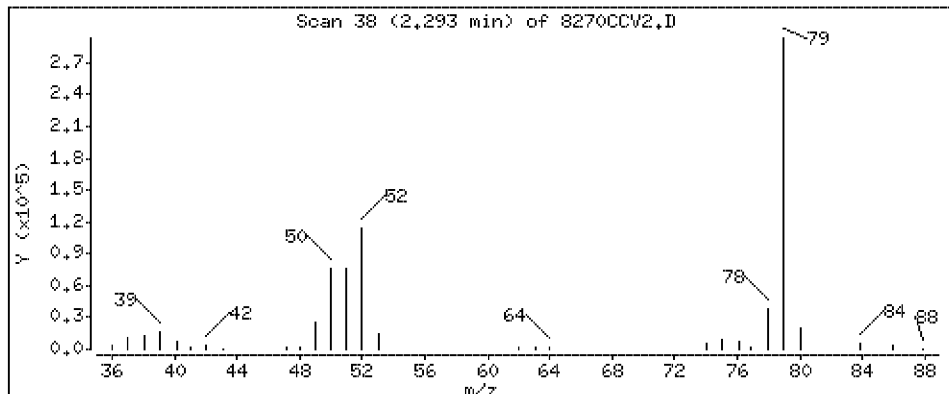
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

2 Pyridine

Concentration: 46.6 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

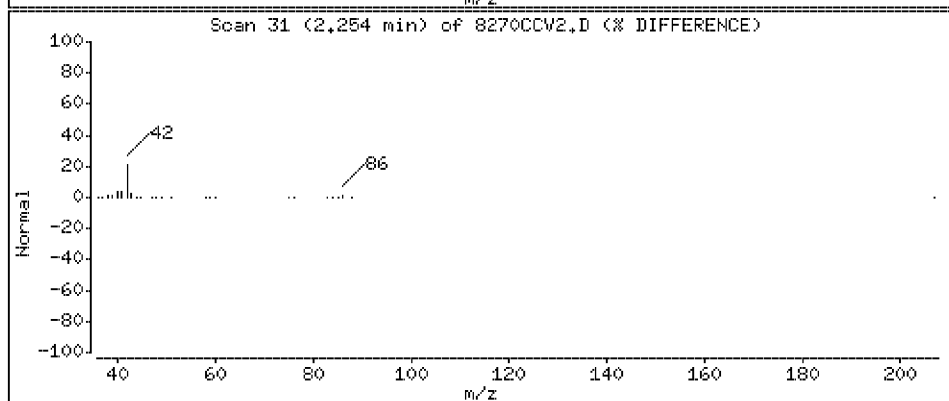
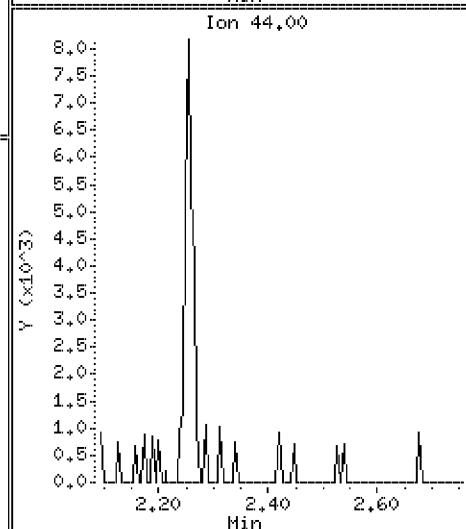
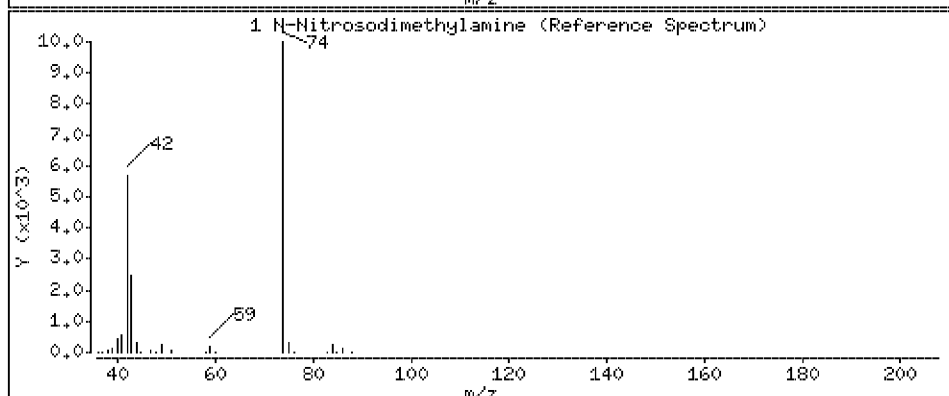
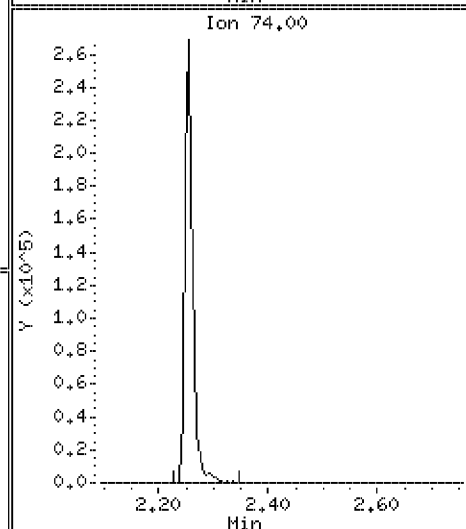
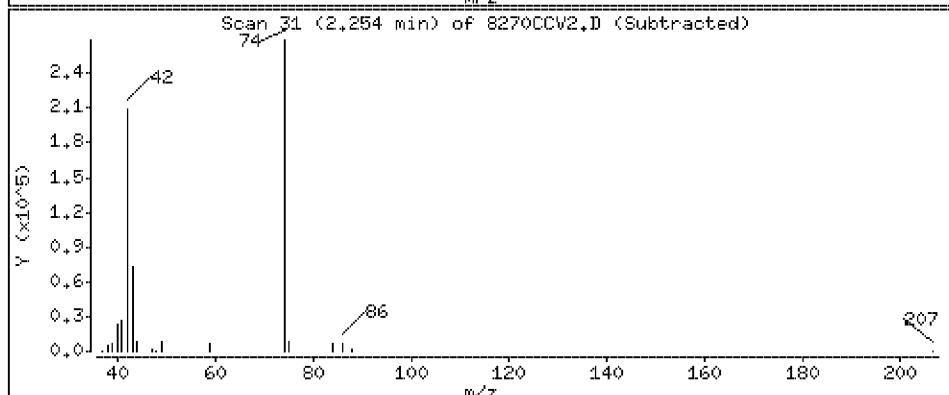
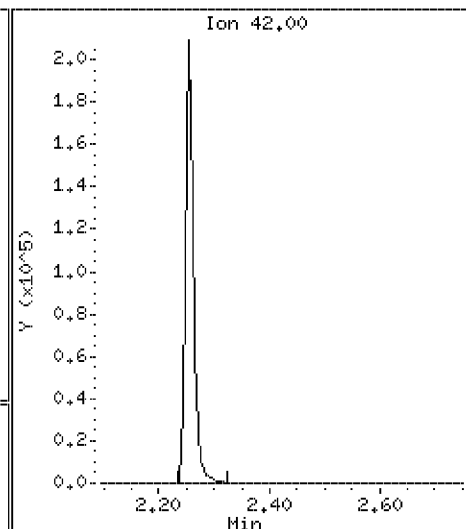
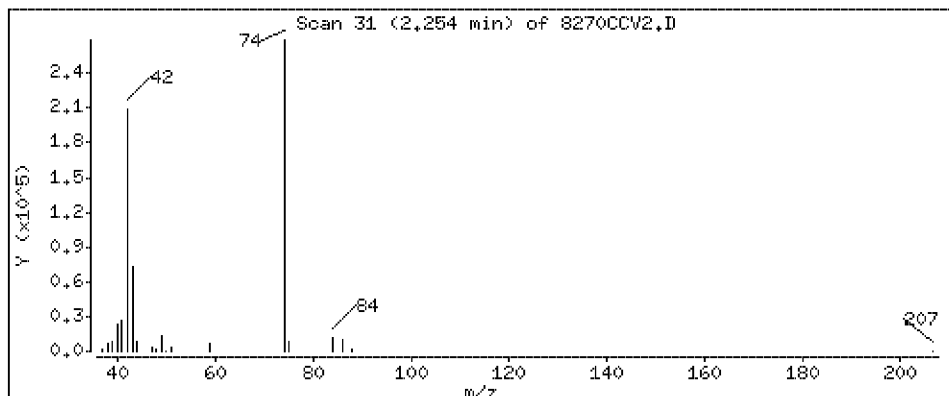
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

1 N-Nitrosodimethylamine

Concentration: 51.4 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

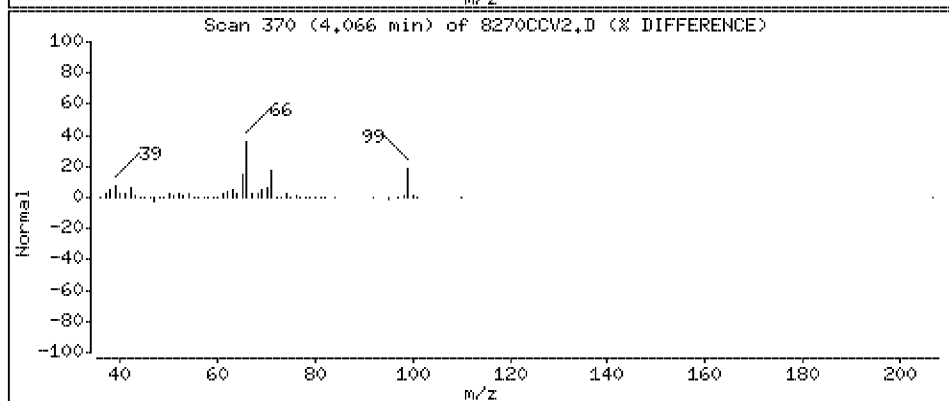
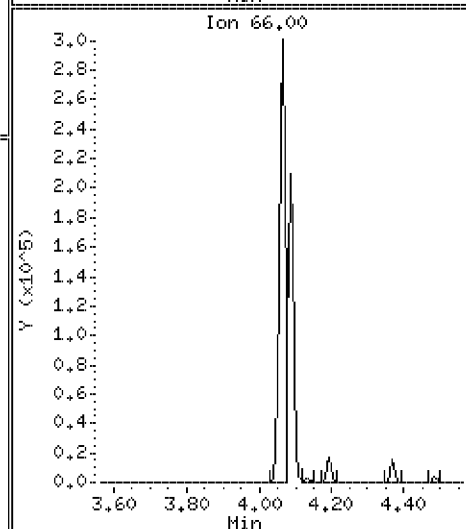
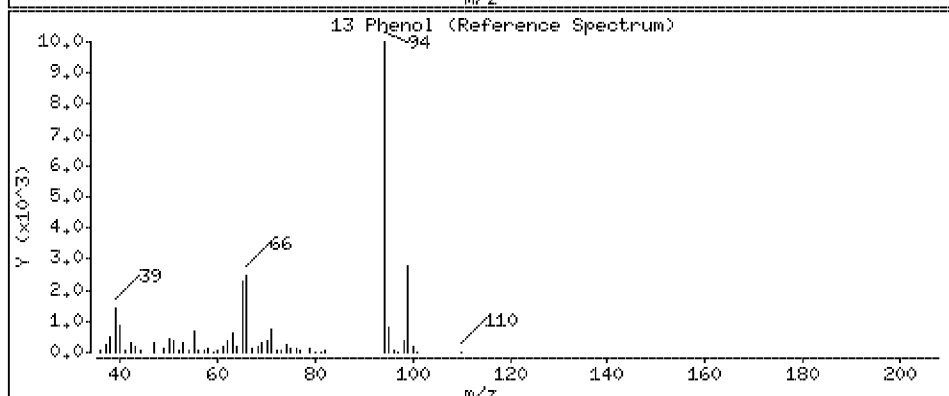
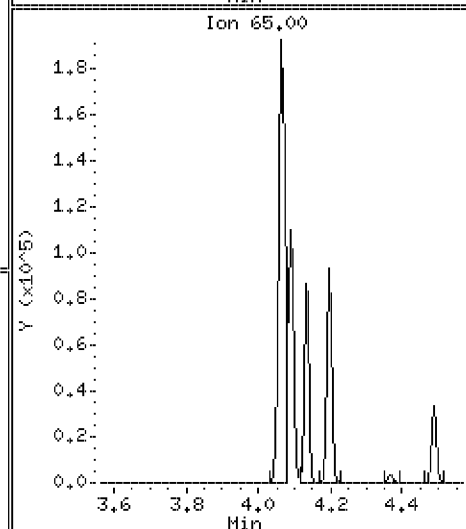
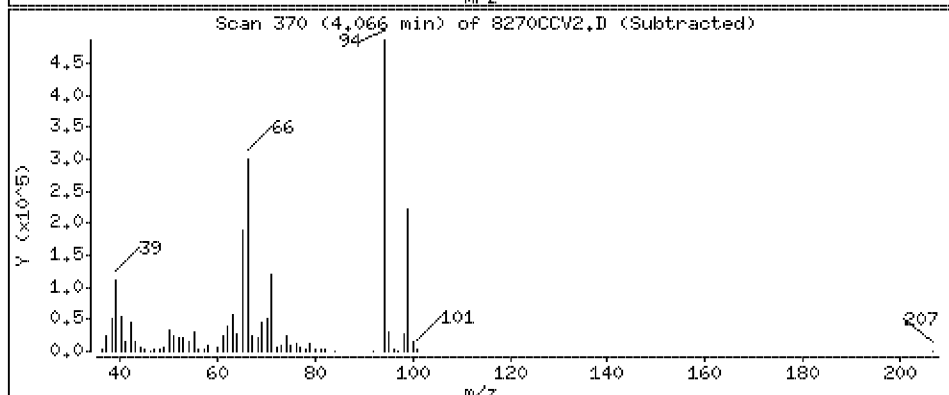
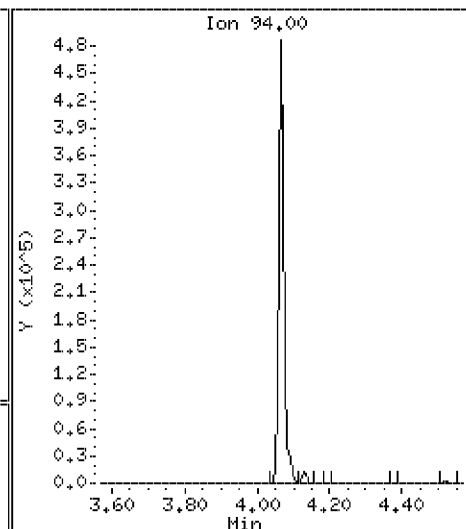
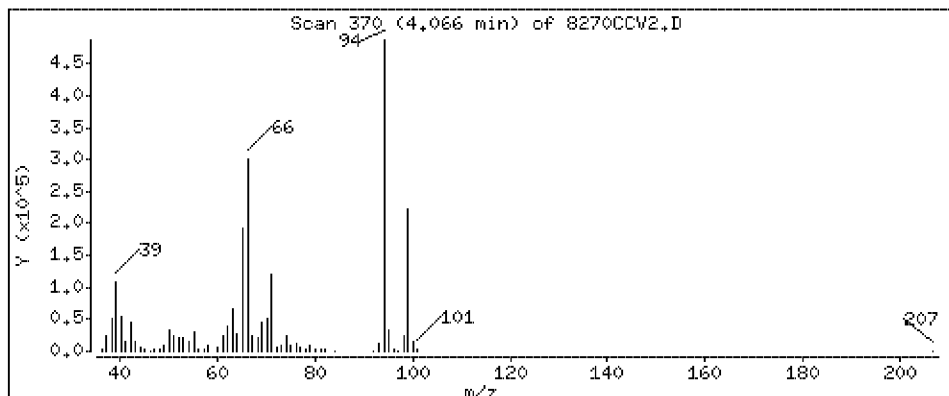
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

13 Phenol

Concentration: 44.9 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

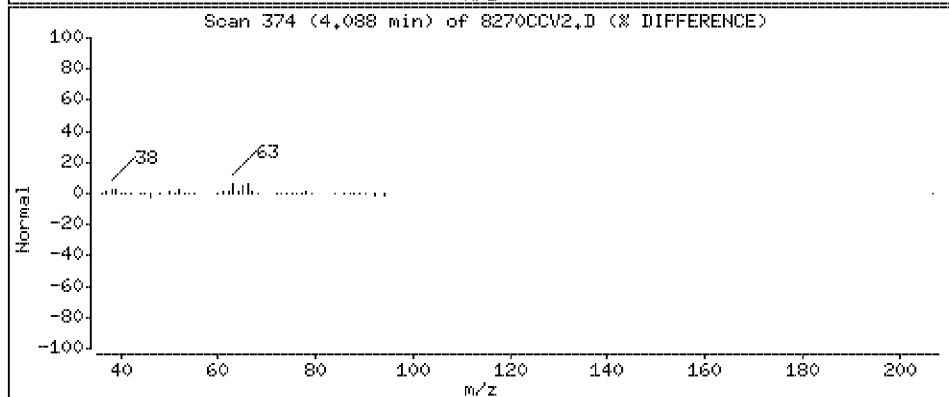
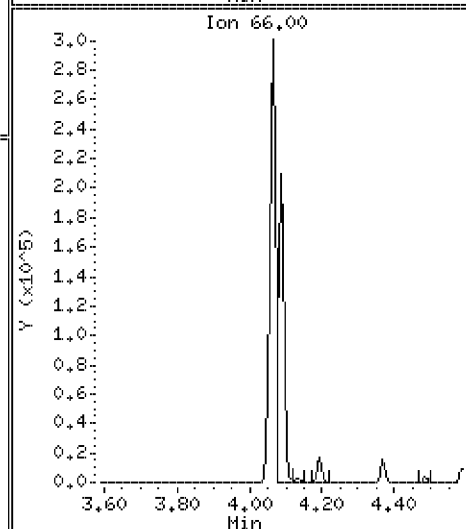
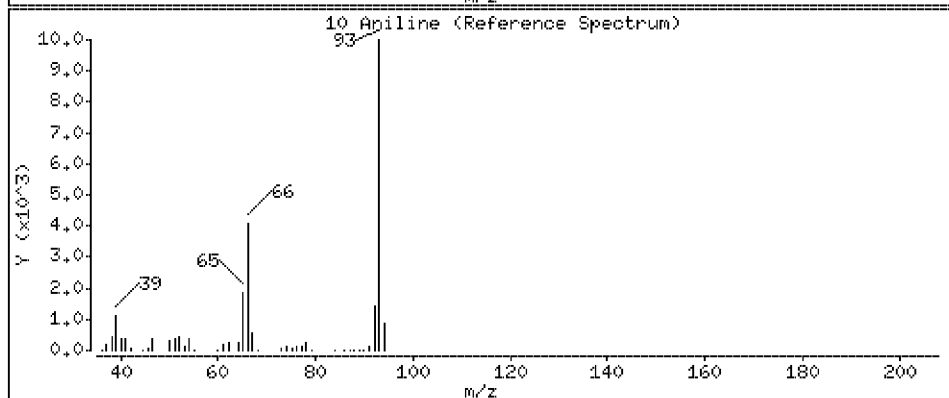
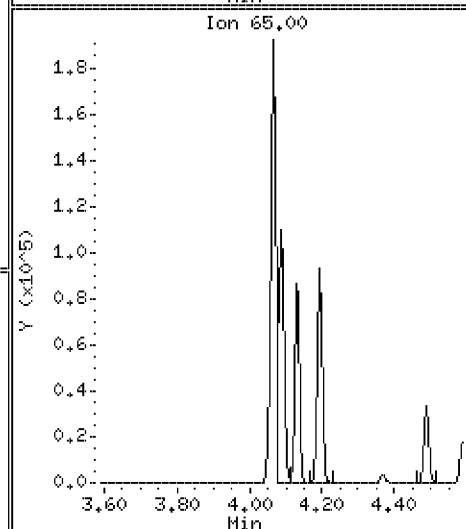
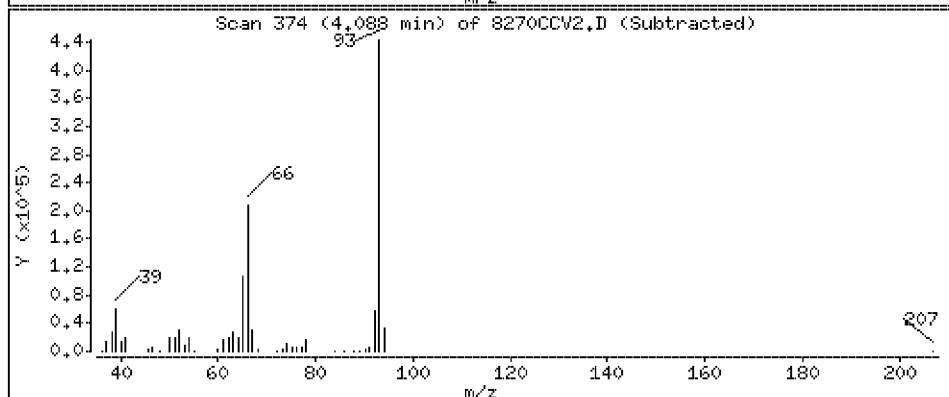
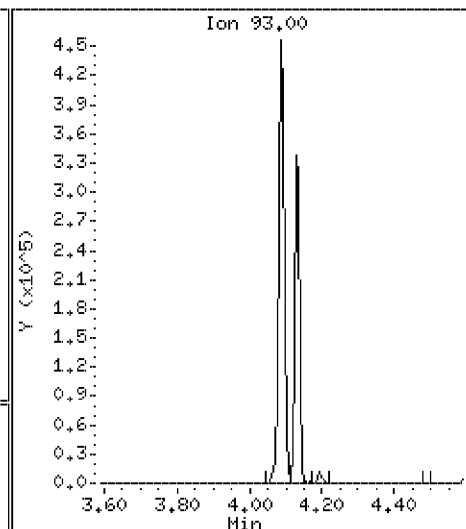
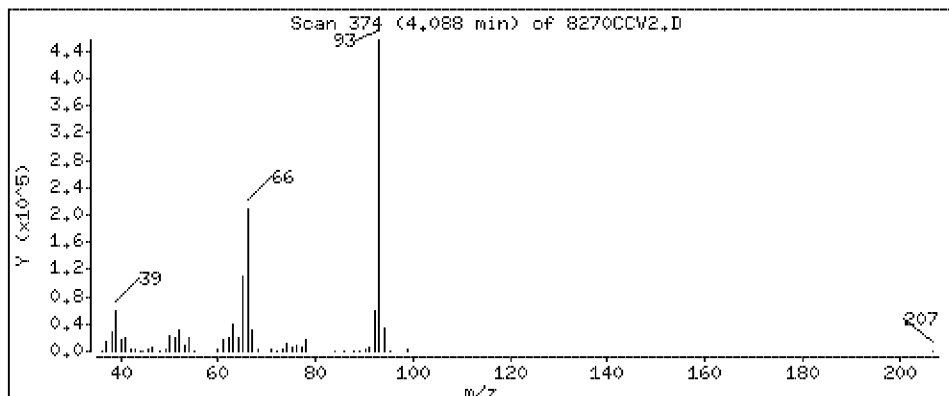
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

10 Aniline

Concentration: 43.6 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

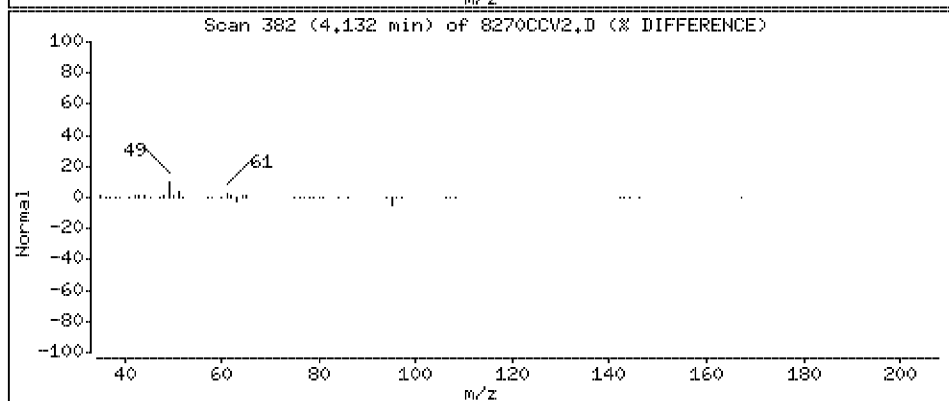
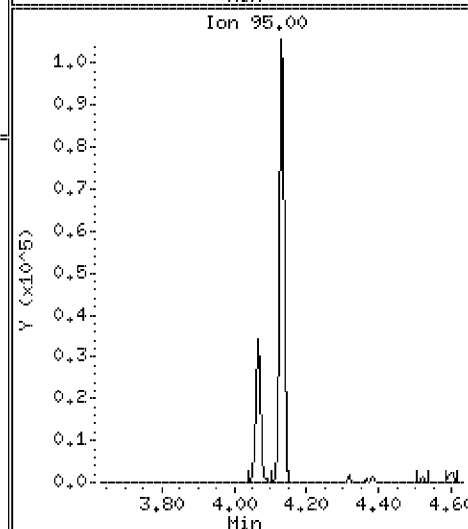
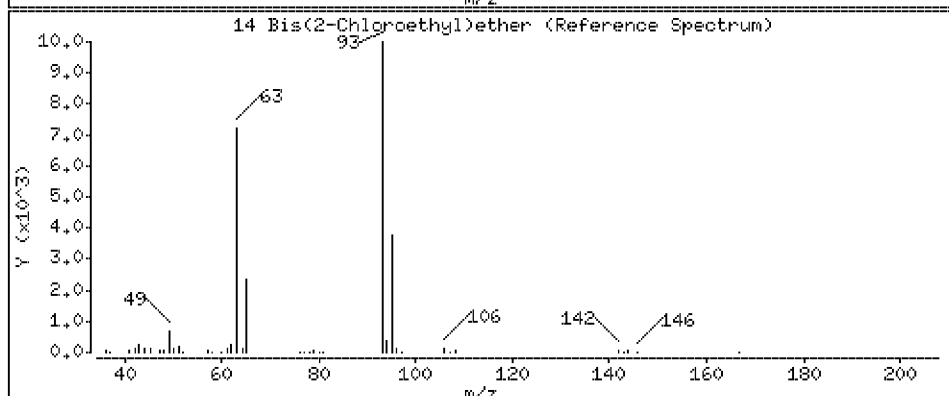
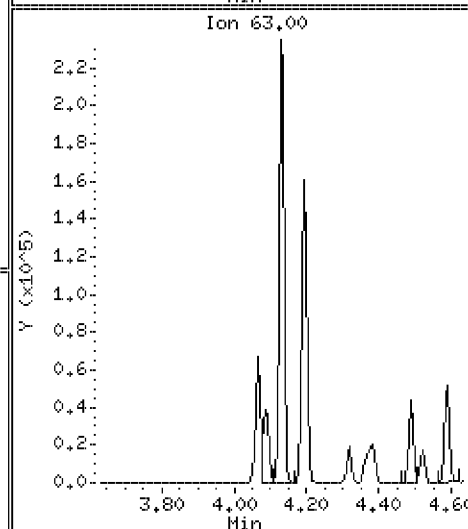
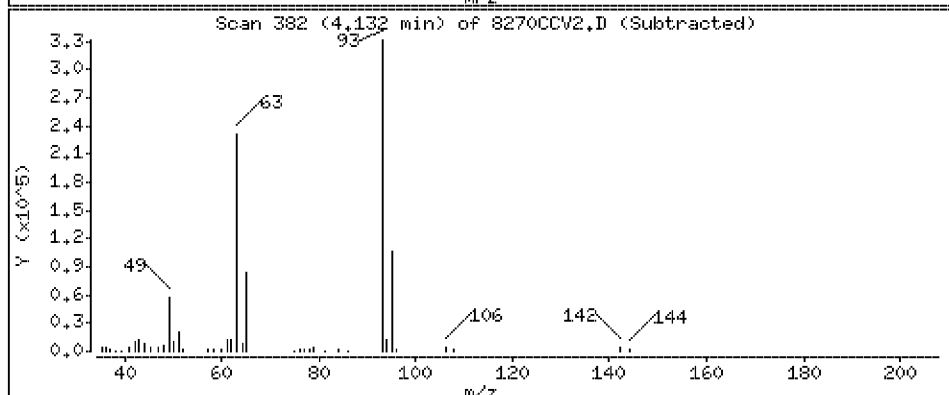
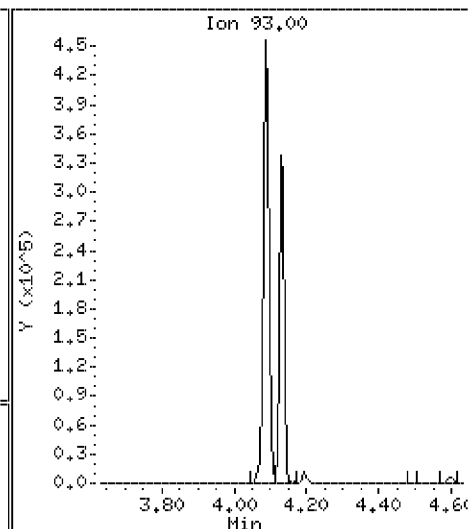
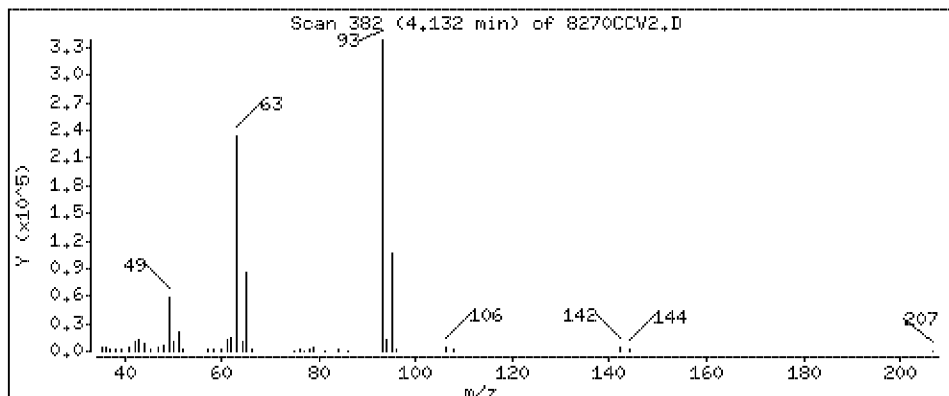
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

14 Bis(2-Chloroethyl)ether

Concentration: 46.1 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

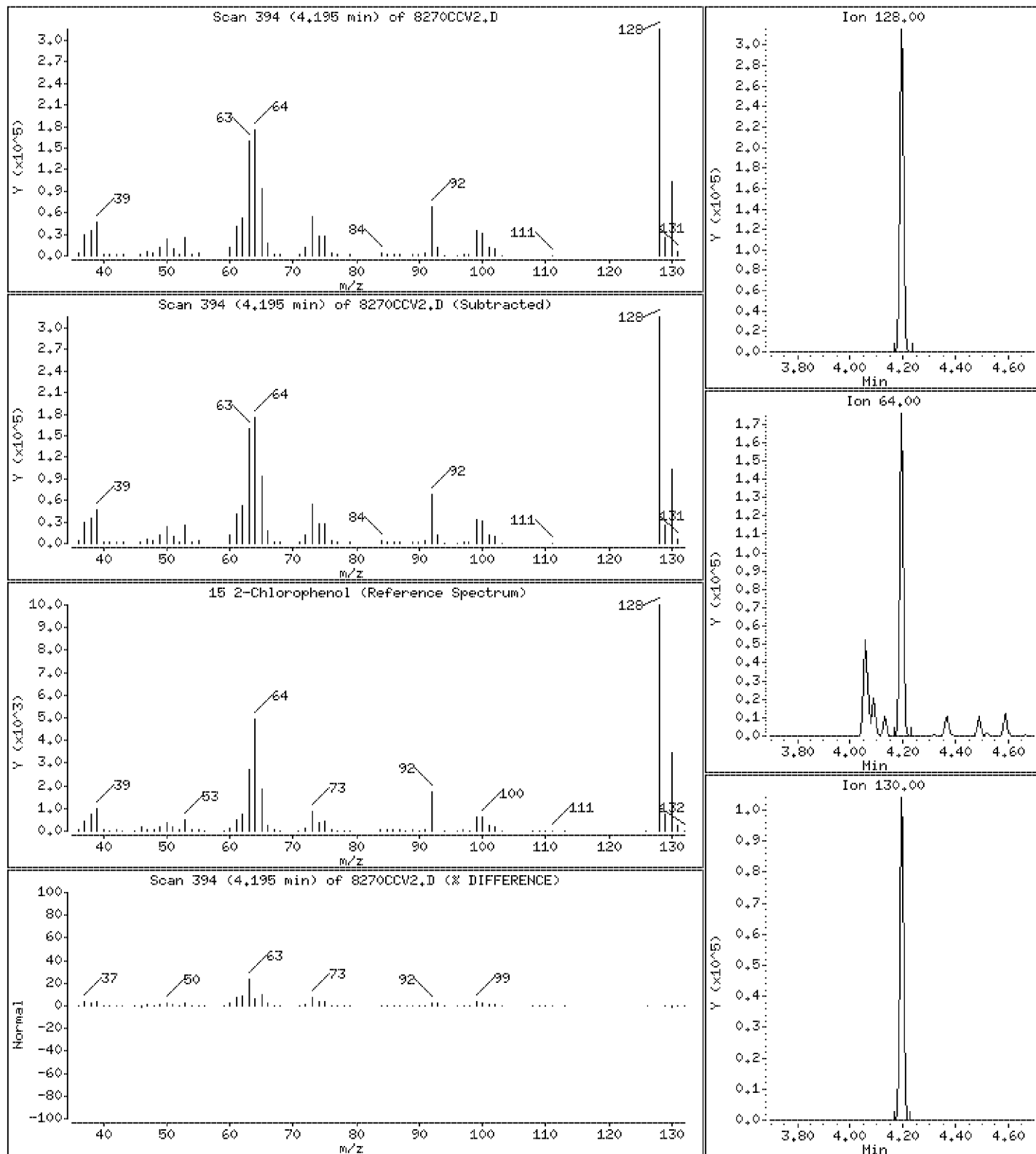
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

15 2-Chlorophenol

Concentration: 45.6 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

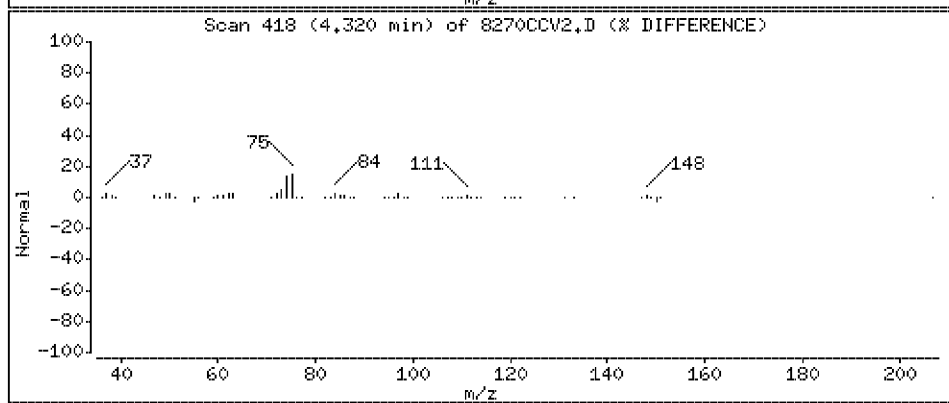
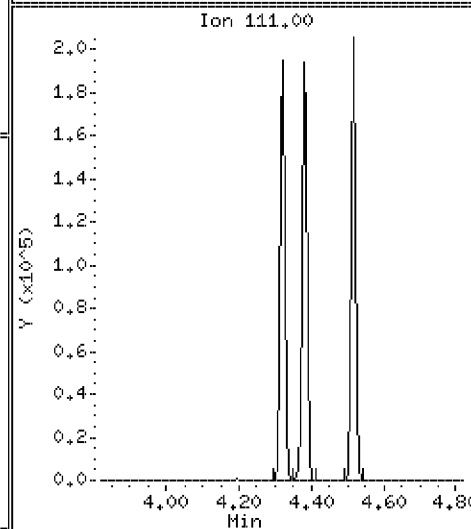
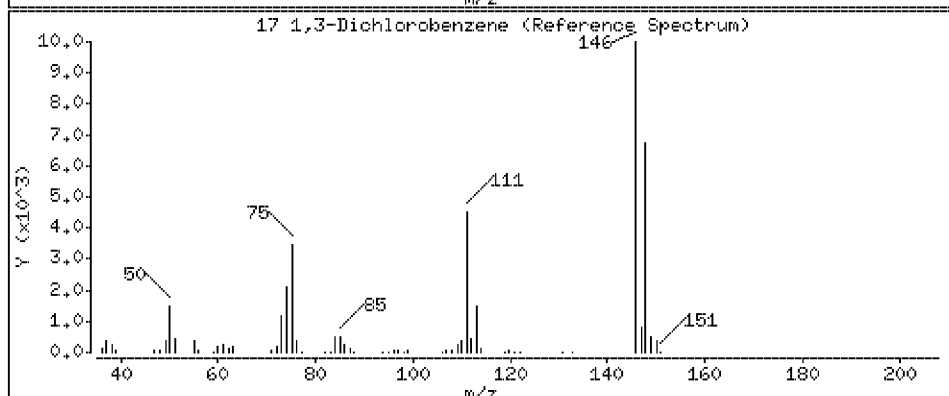
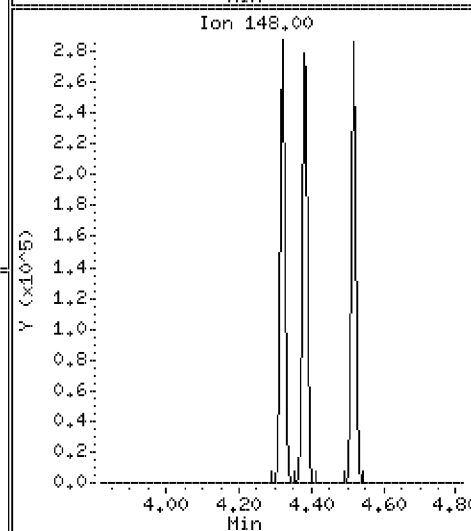
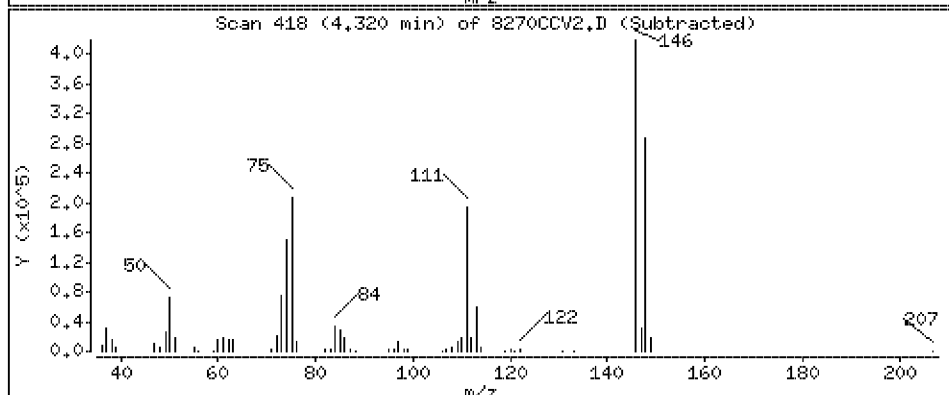
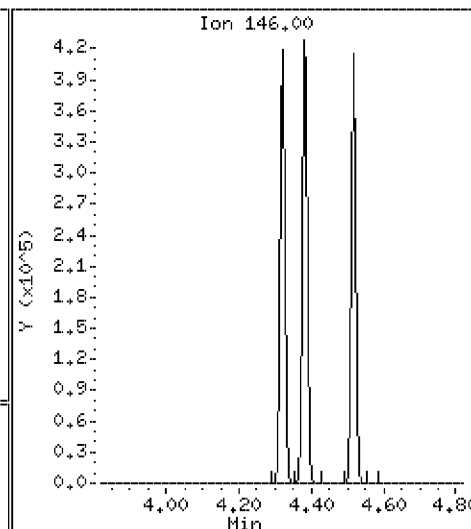
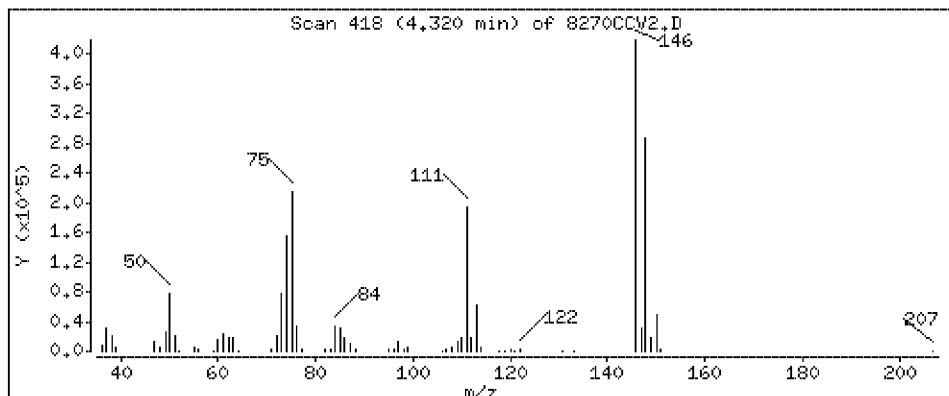
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

17 1,3-Dichlorobenzene

Concentration: 45.7 ug/l



Date: 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

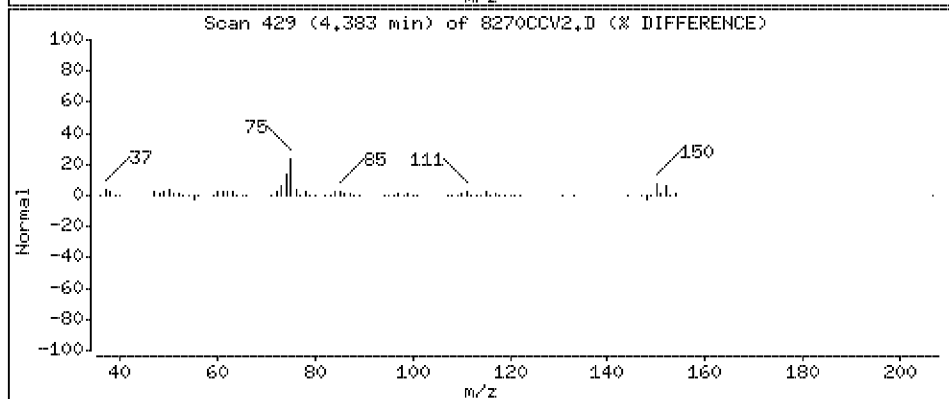
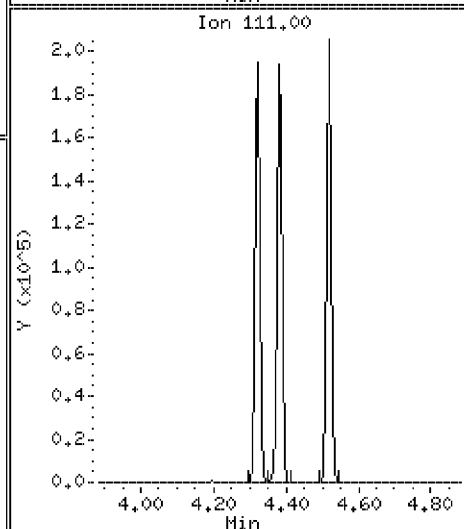
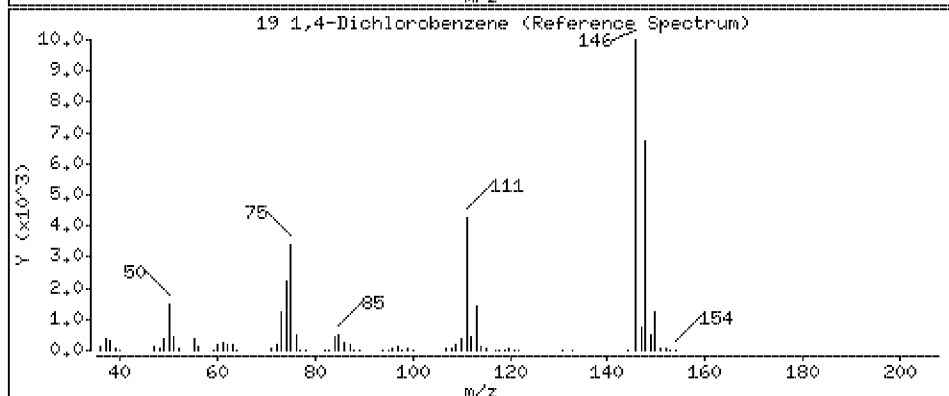
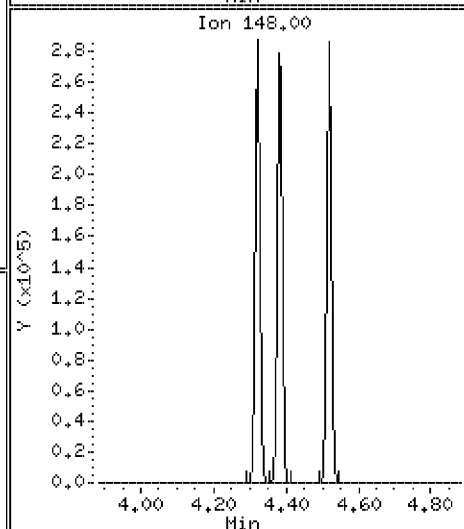
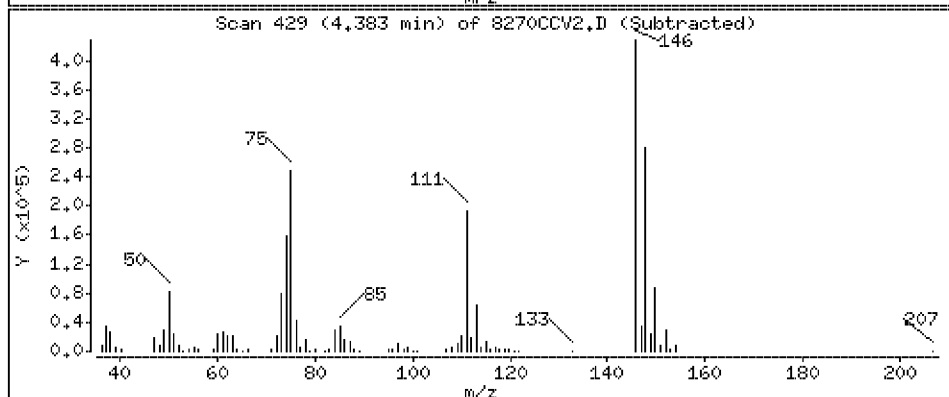
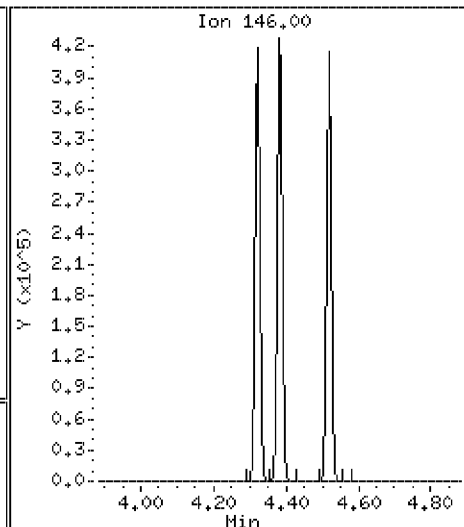
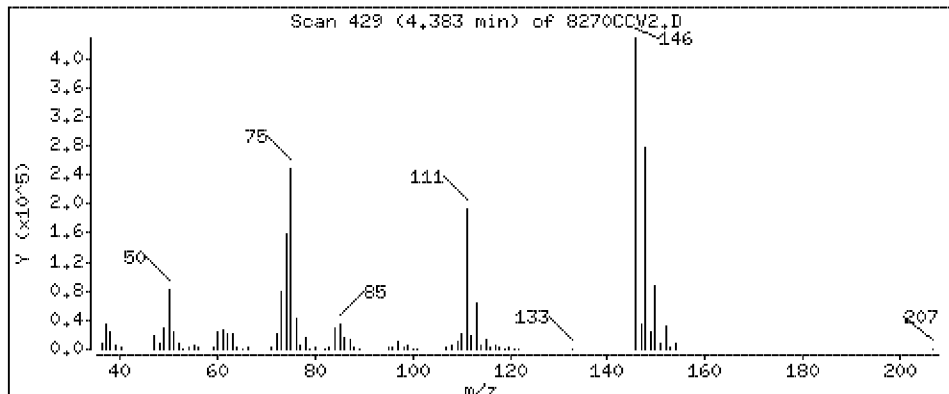
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

19 1,4-Dichlorobenzene

Concentration: 45.6 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

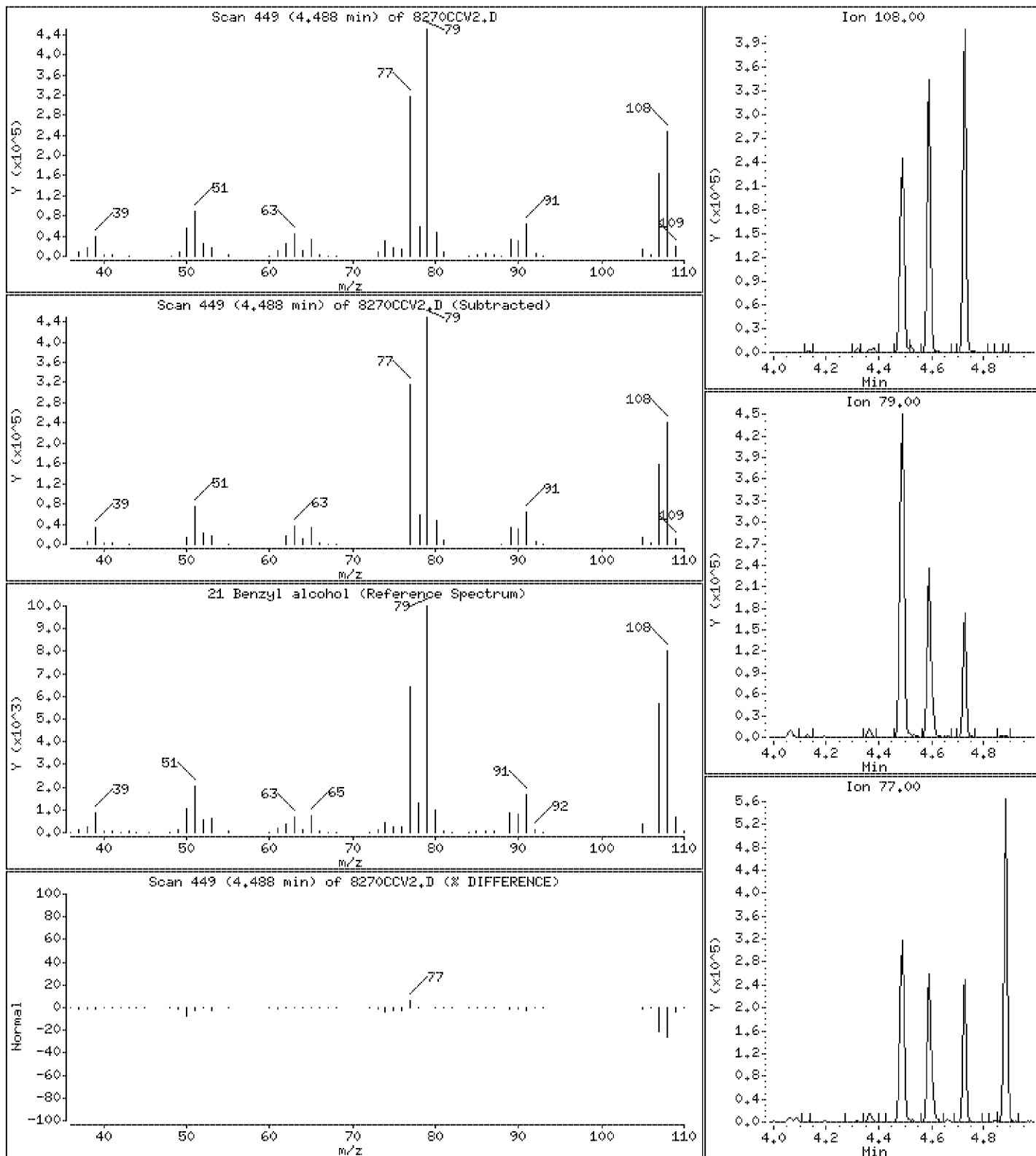
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

21 Benzyl alcohol

Concentration: 45.7 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

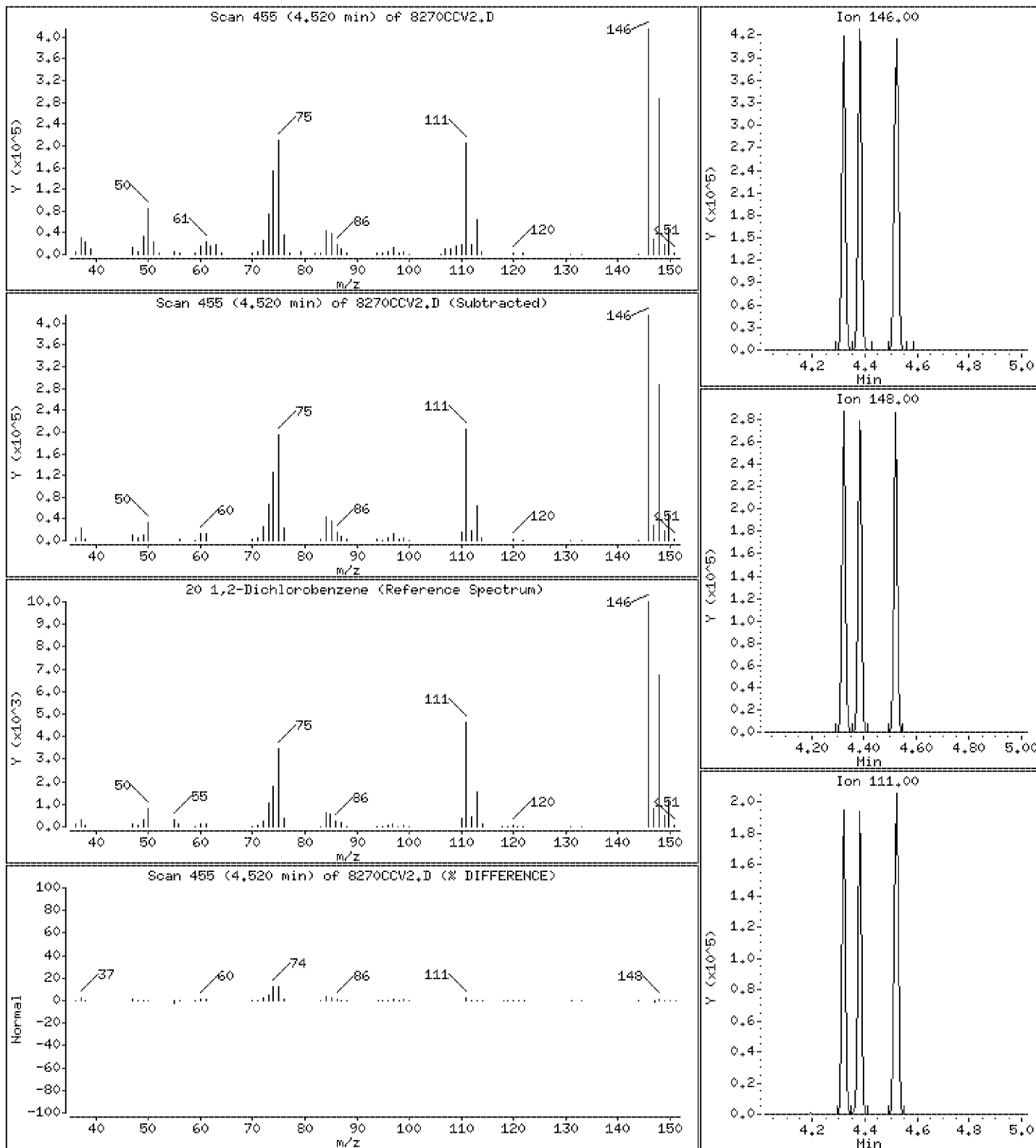
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

20 1,2-Dichlorobenzene

Concentration: 45.1 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

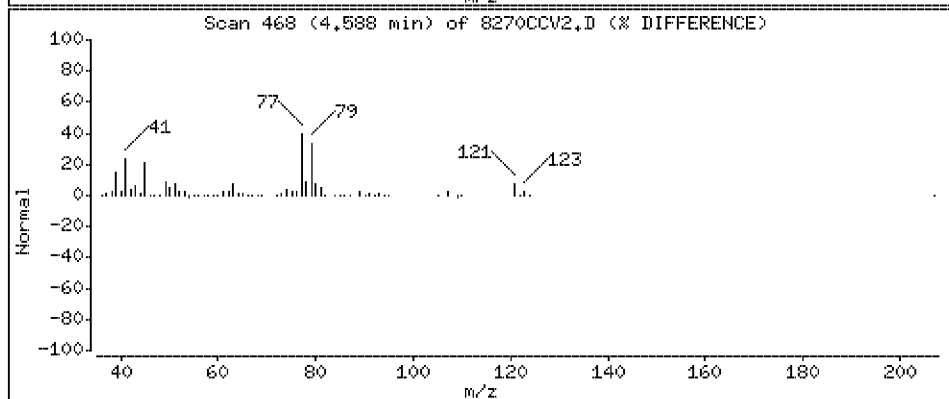
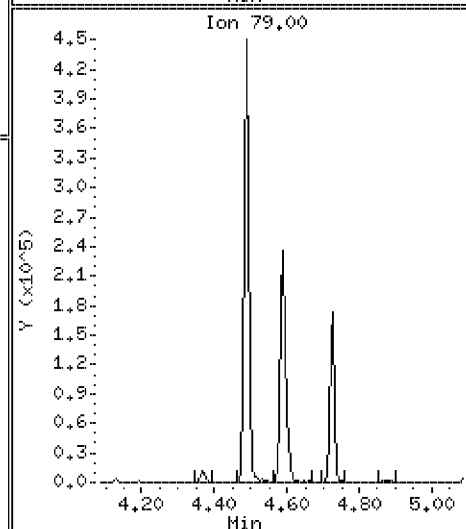
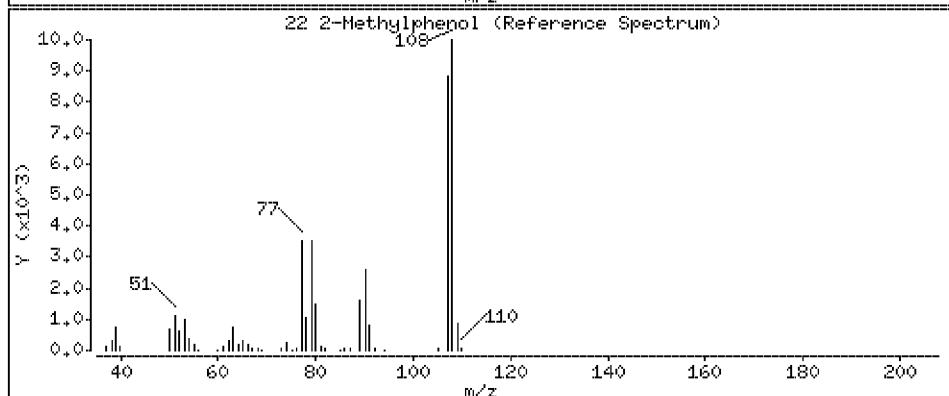
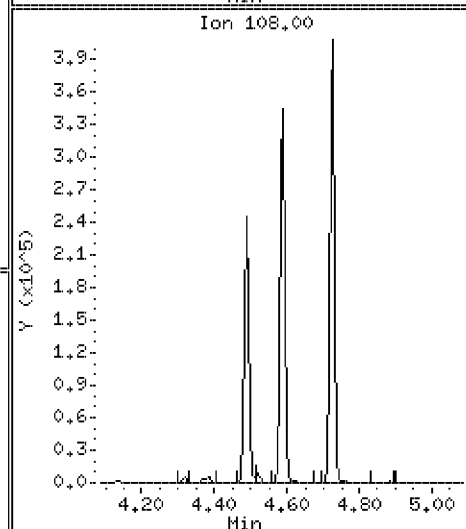
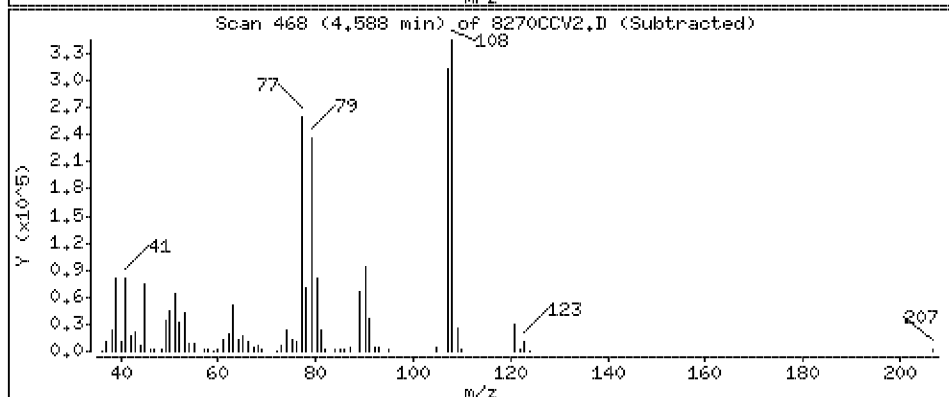
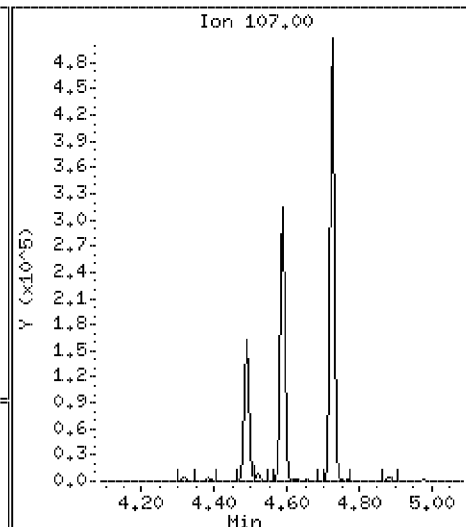
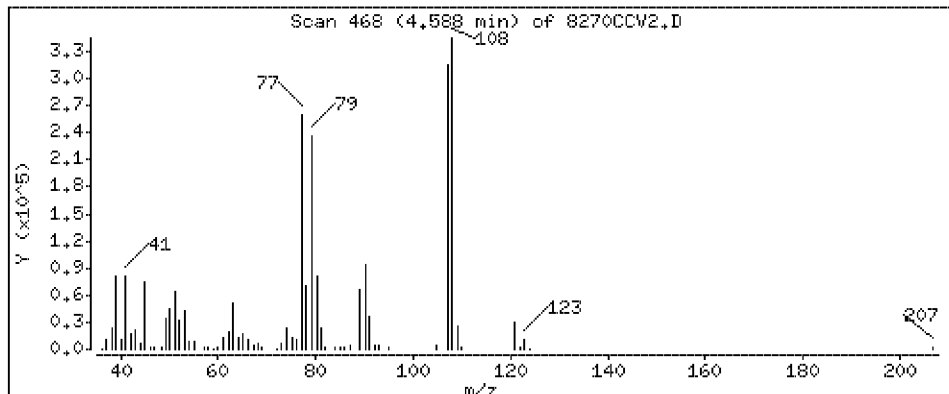
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

22 2-Methylphenol

Concentration: 45.3 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

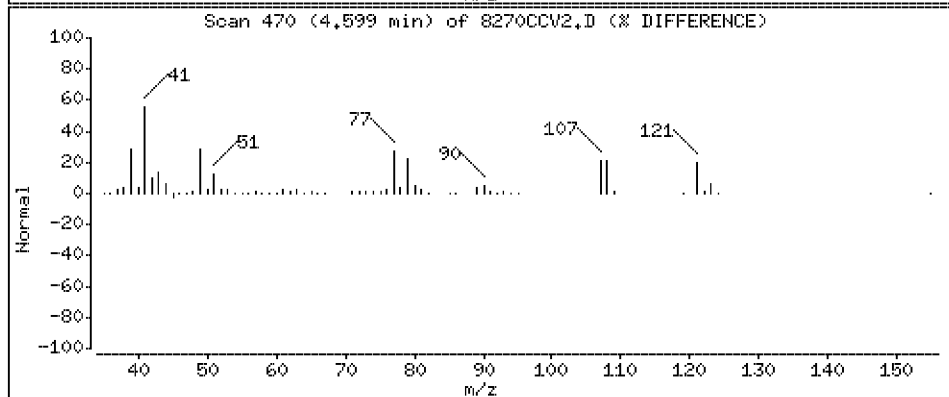
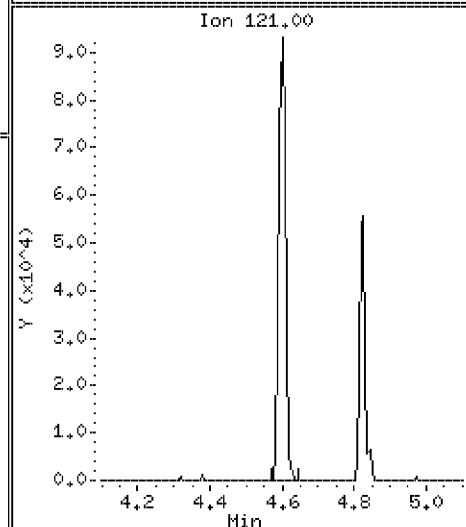
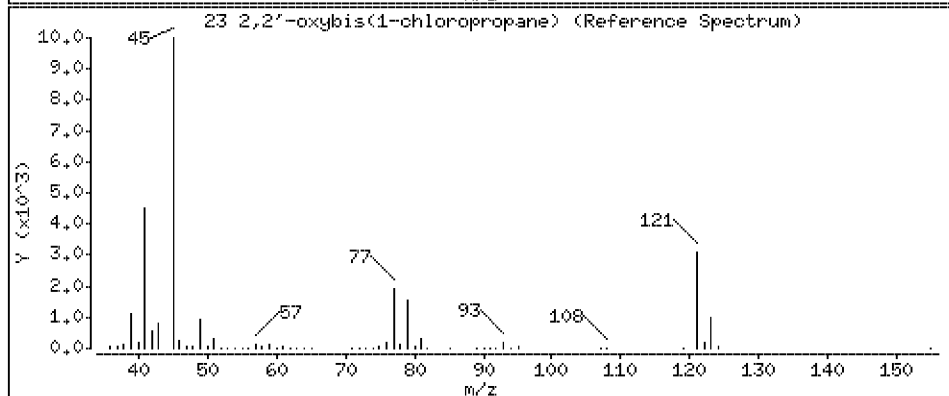
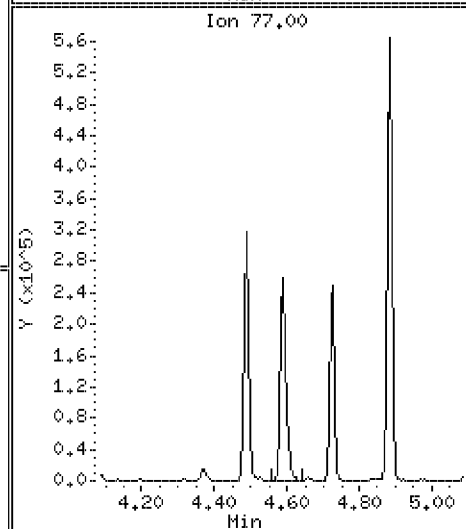
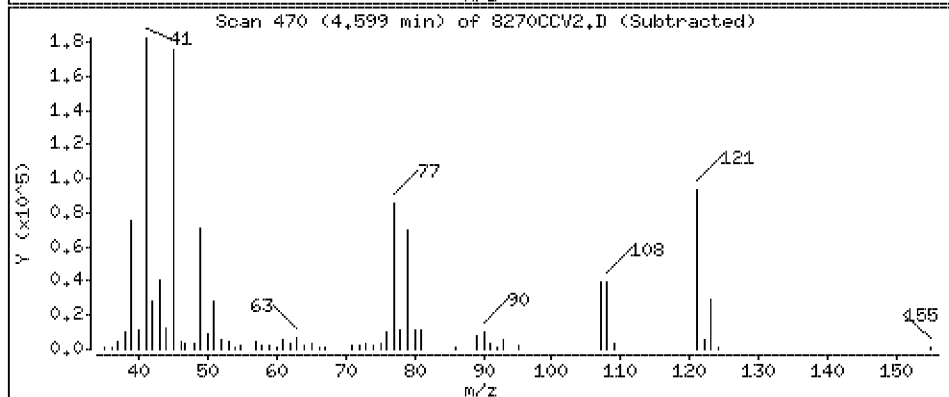
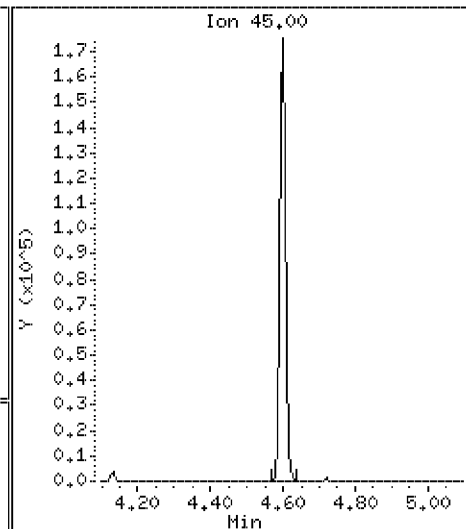
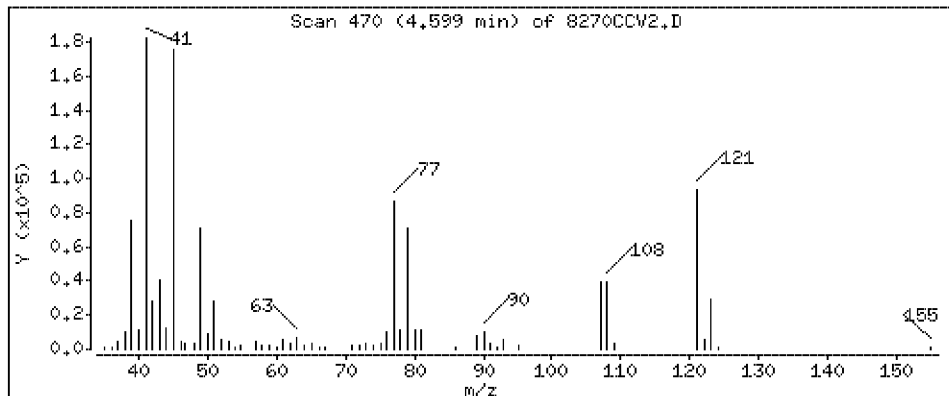
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

23 2,2'-oxybis(1-chloropropane)

Concentration: 42.3 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

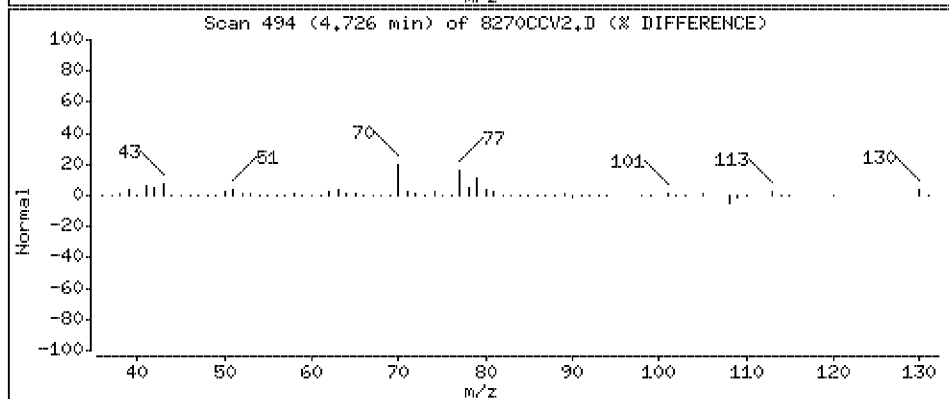
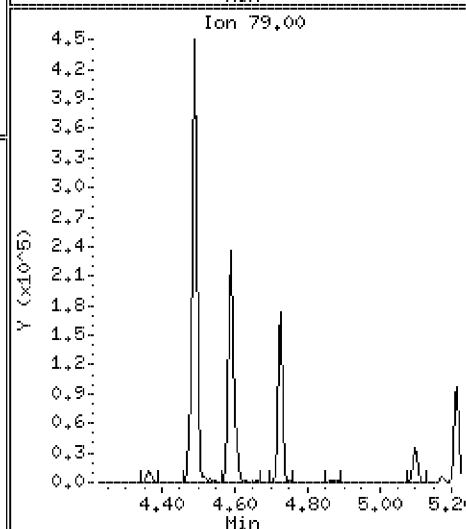
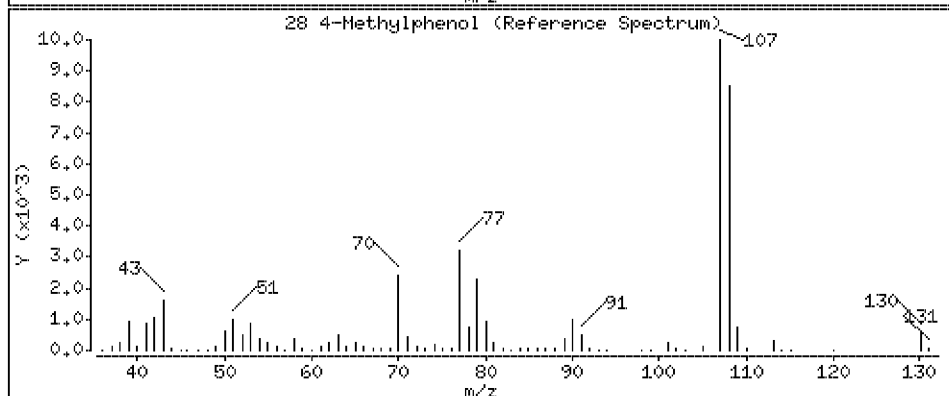
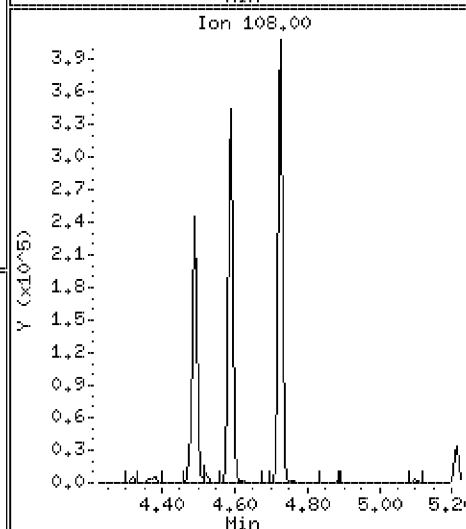
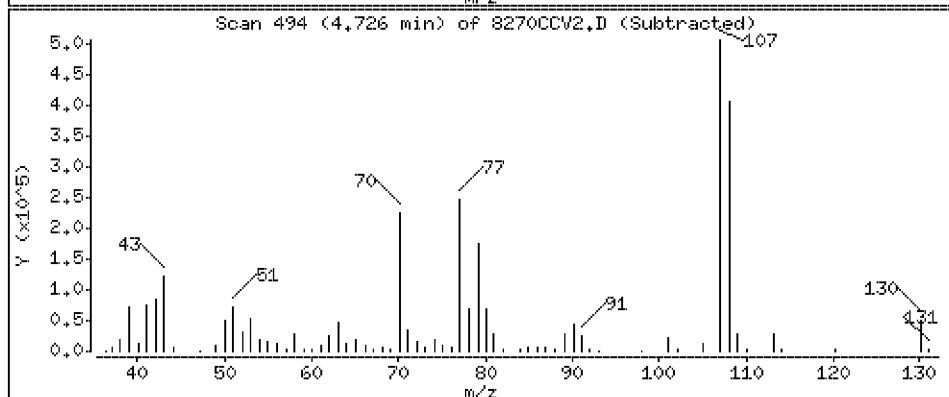
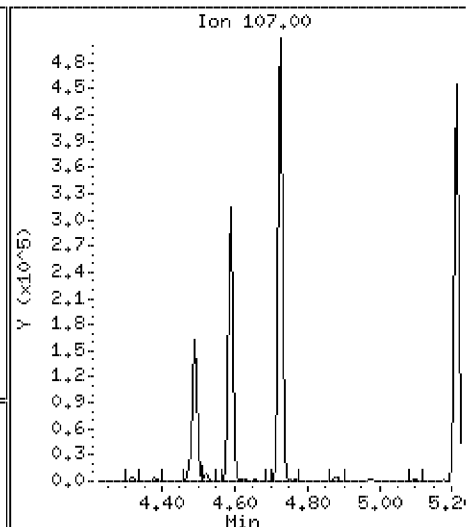
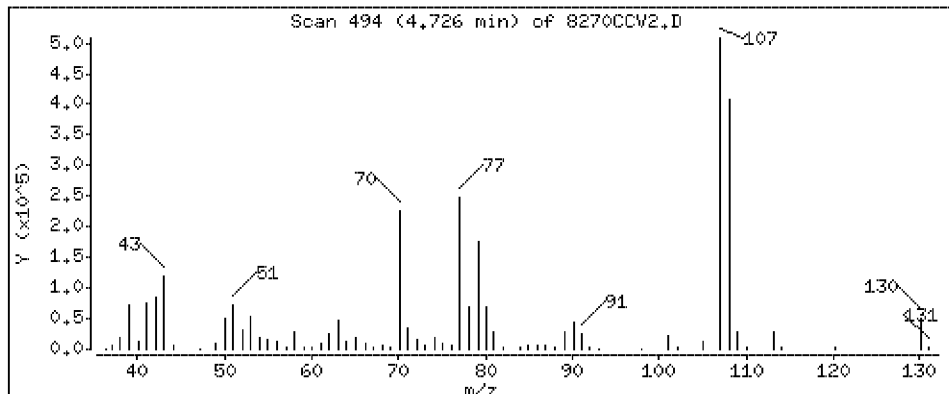
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

28 4-Methylphenol

Concentration: 48.0 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

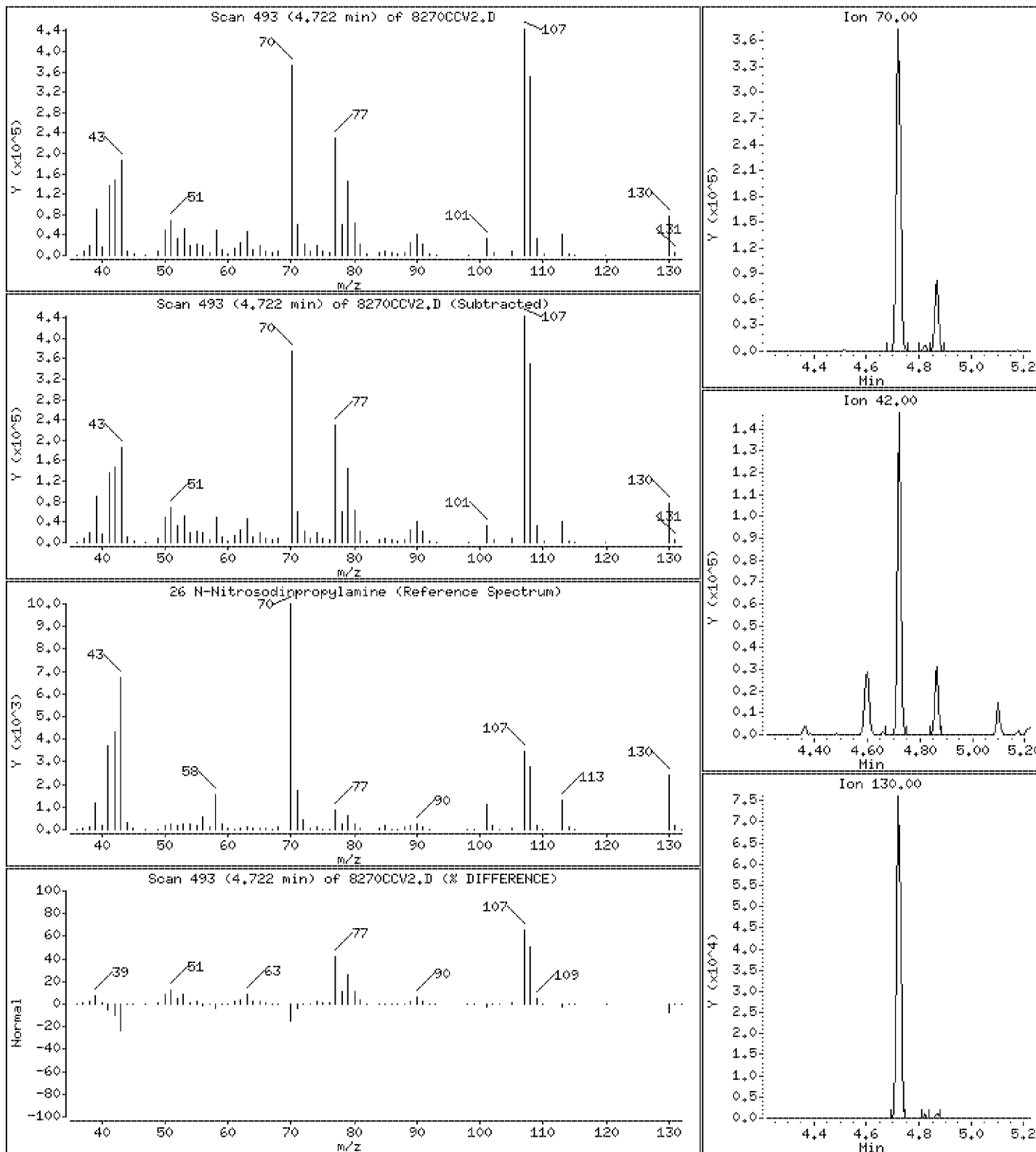
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

26 N-Nitrosodipropylamine

Concentration: 48.0 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

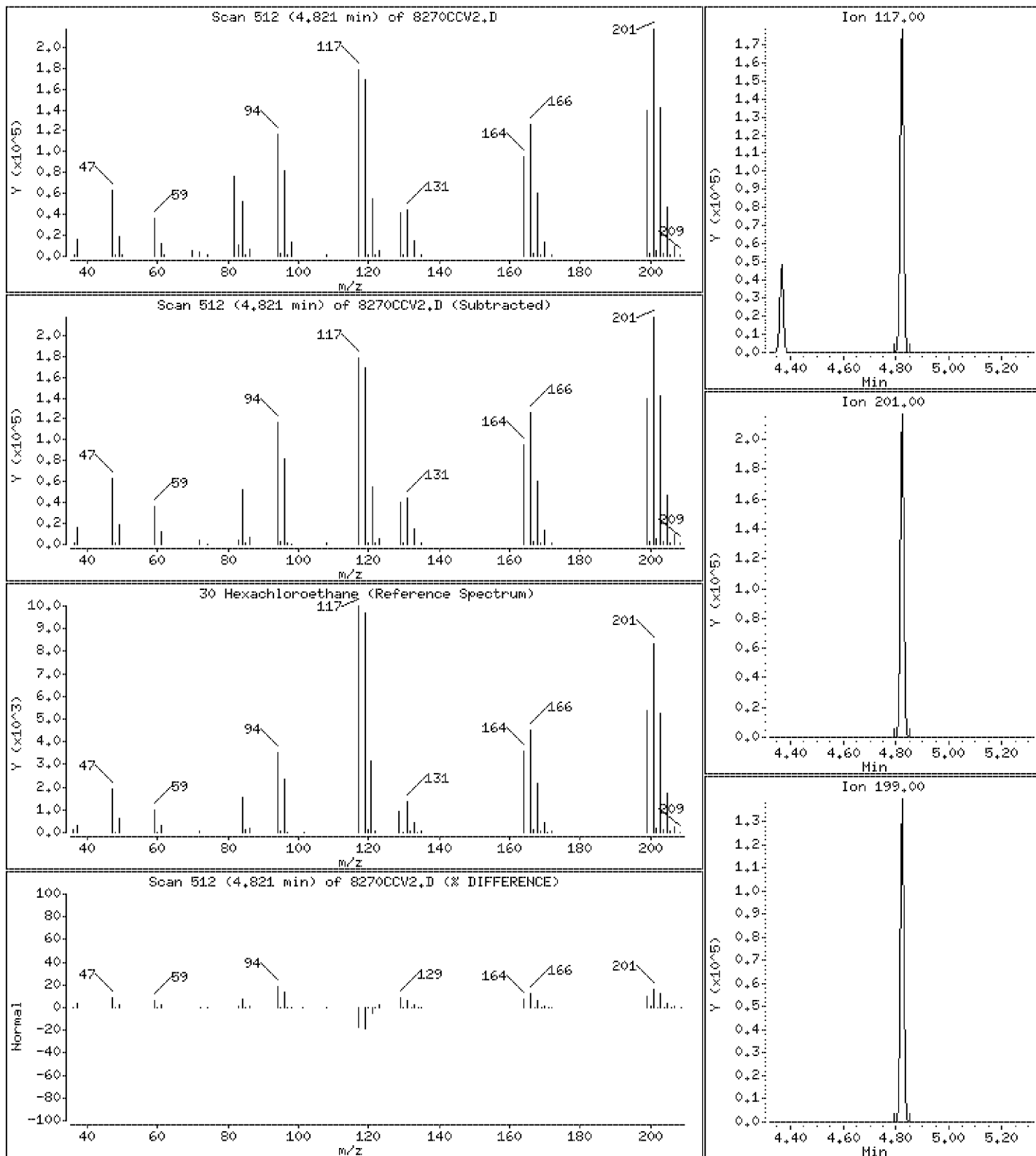
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

30 Hexachloroethane

Concentration: 47.6 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

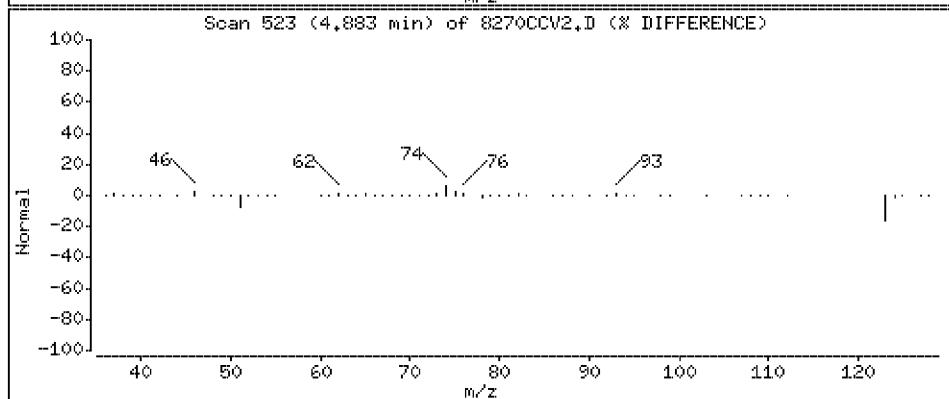
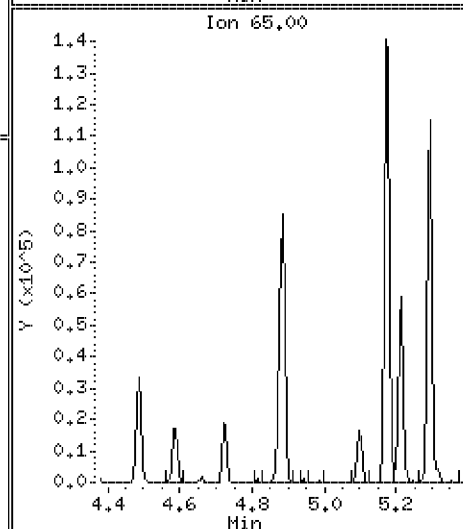
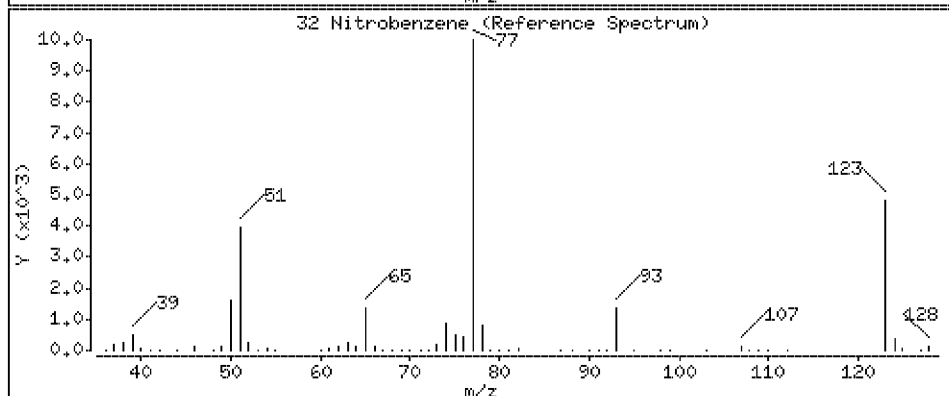
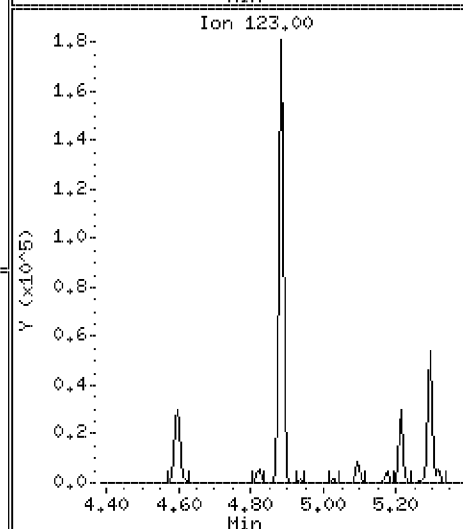
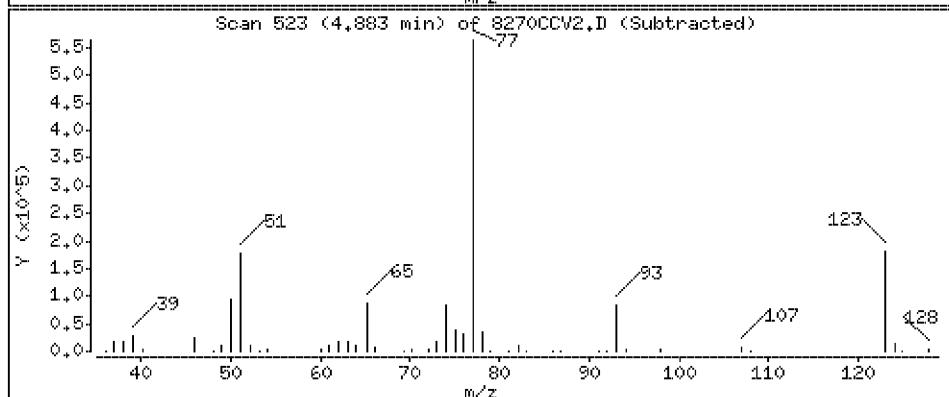
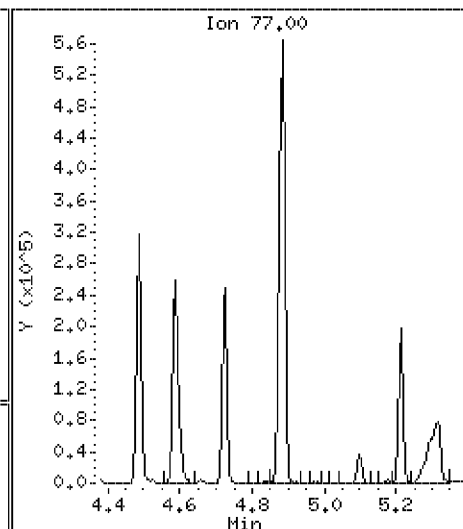
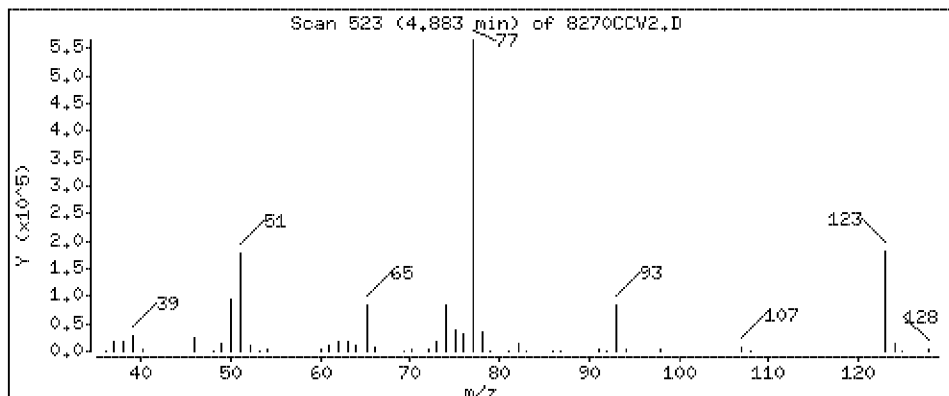
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

32 Nitrobenzene

Concentration: 47.6 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

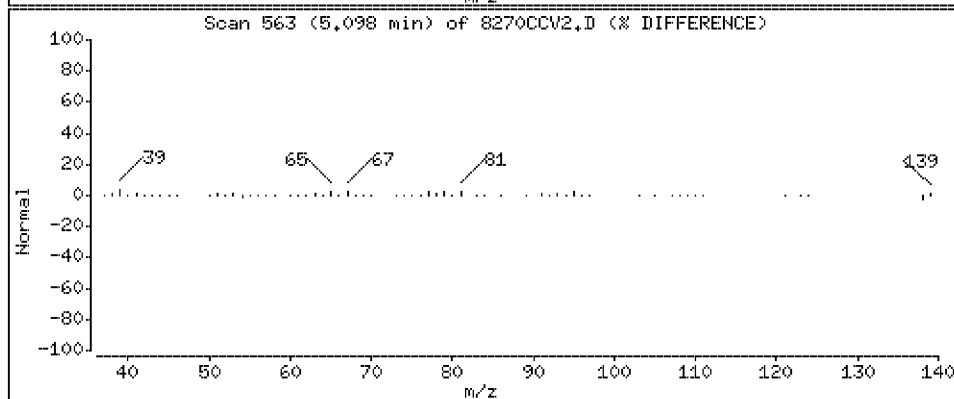
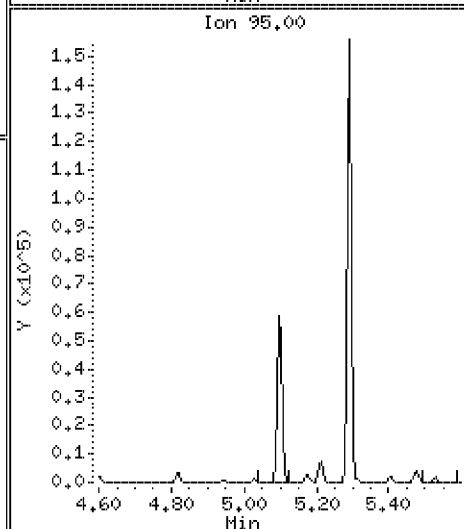
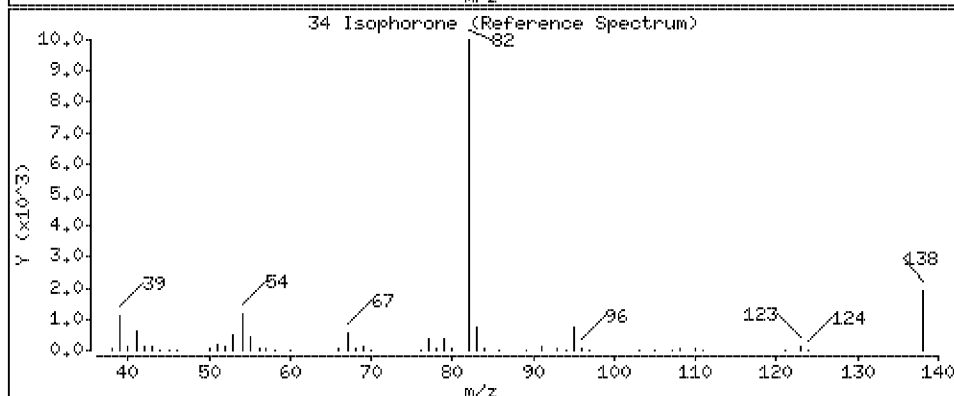
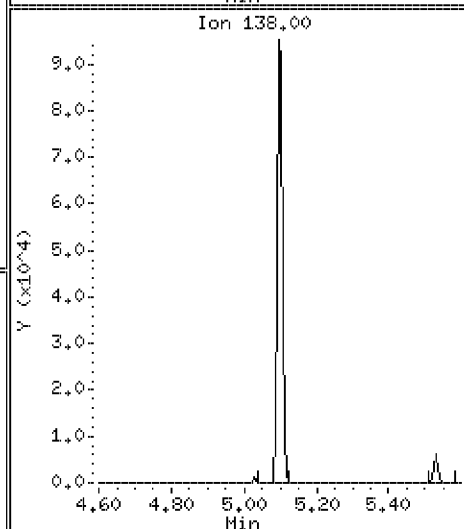
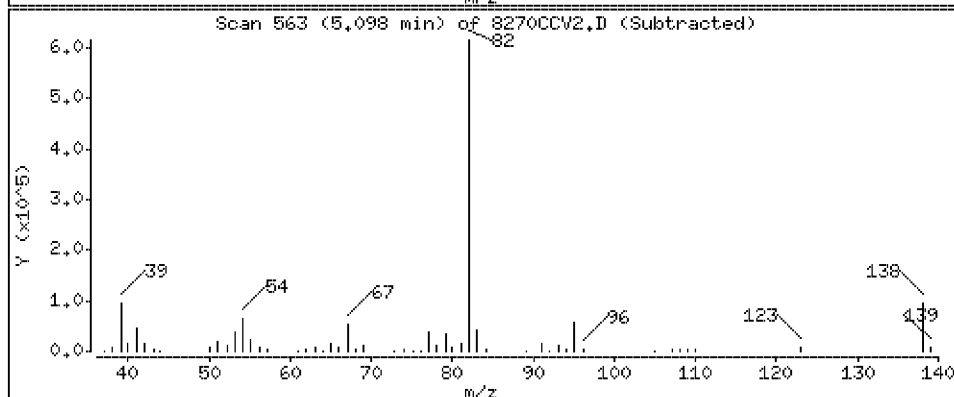
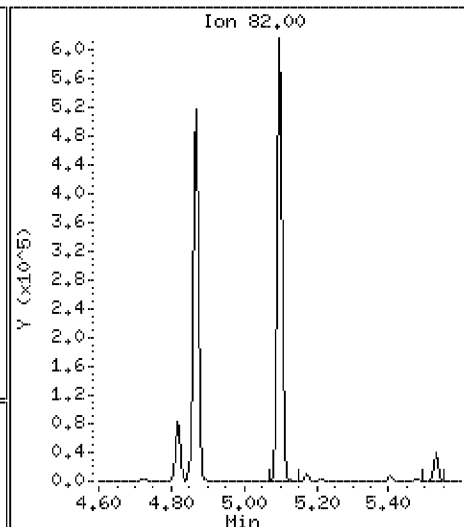
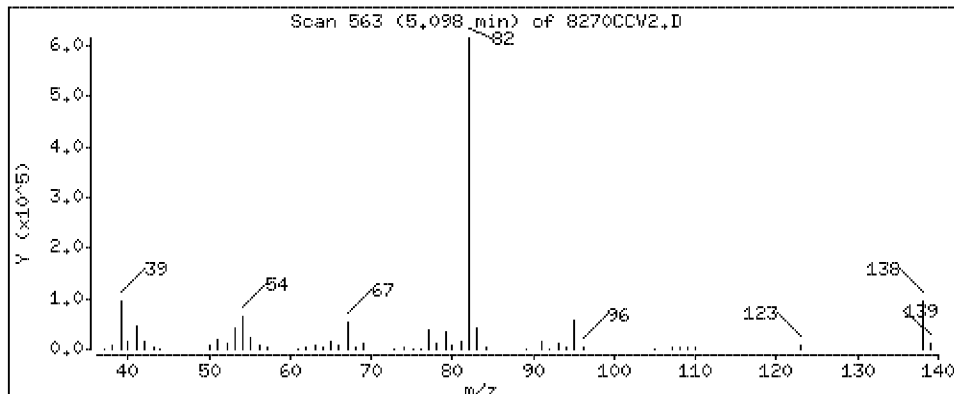
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

34 Isophorone

Concentration: 46.7 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

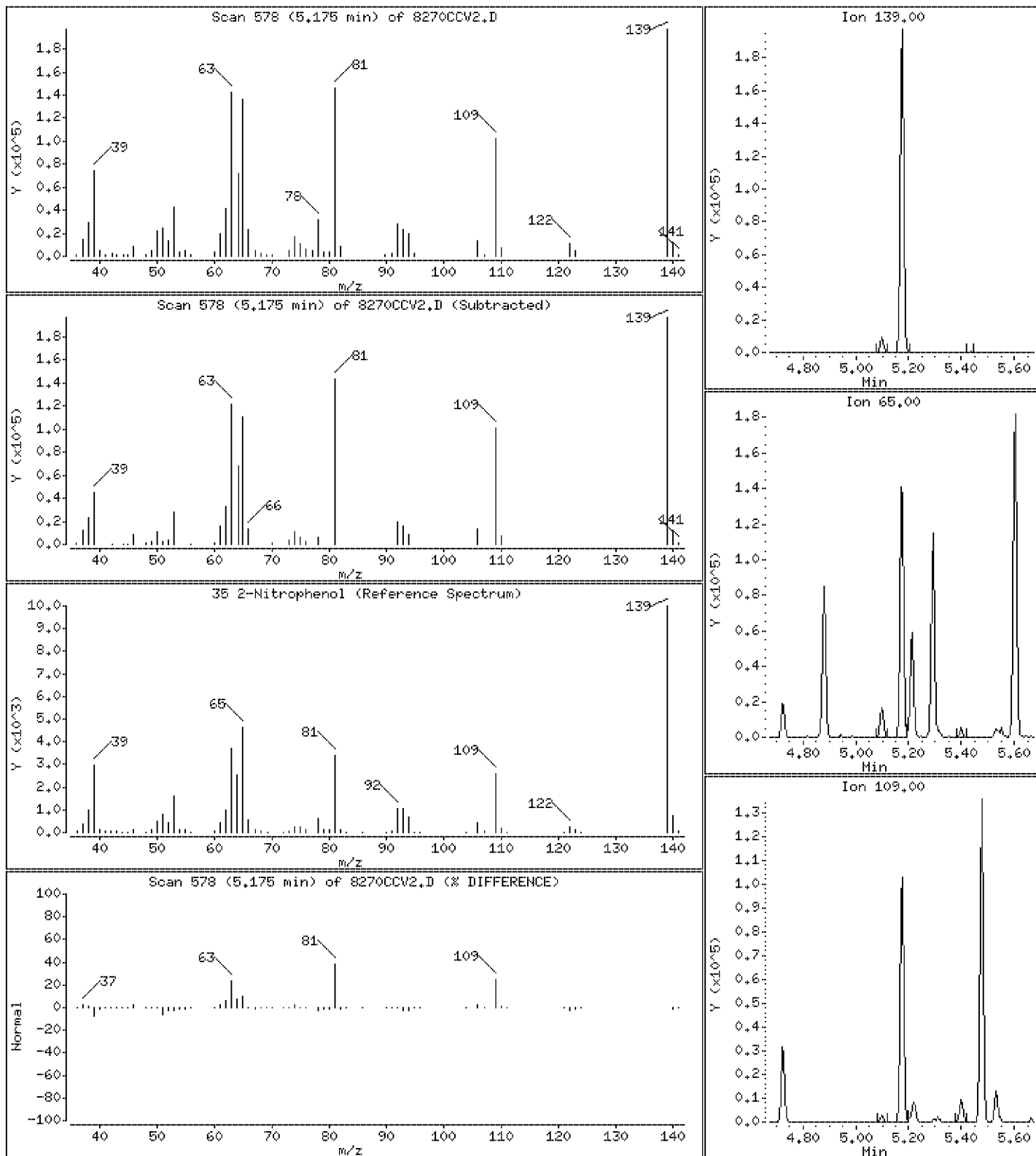
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

35 2-Nitrophenol

Concentration: 46.9 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

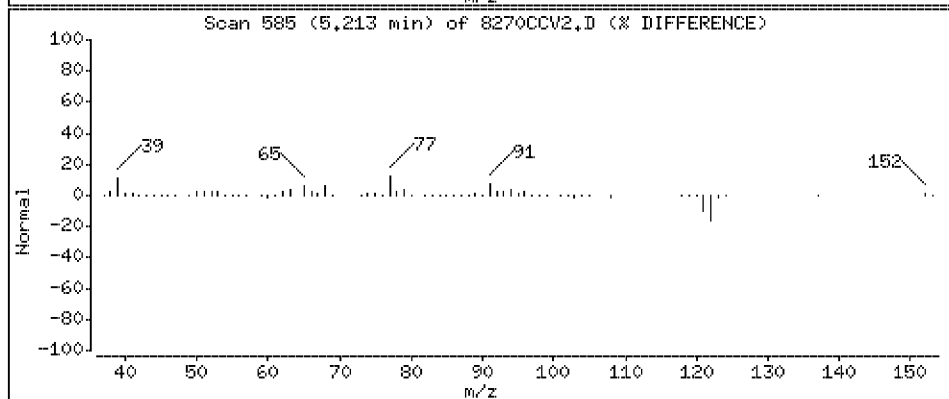
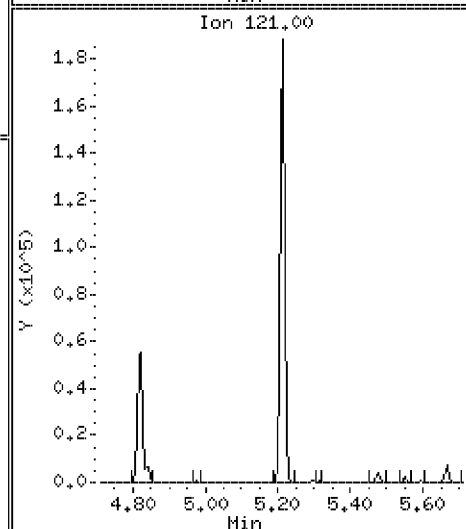
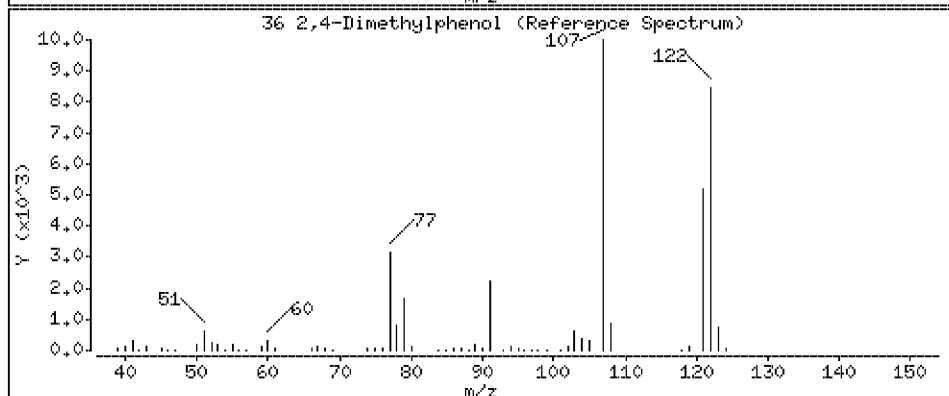
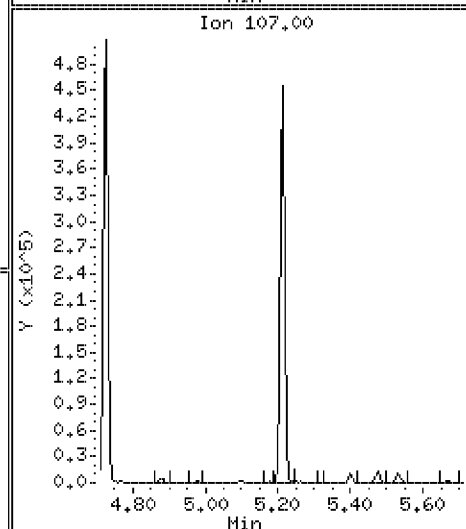
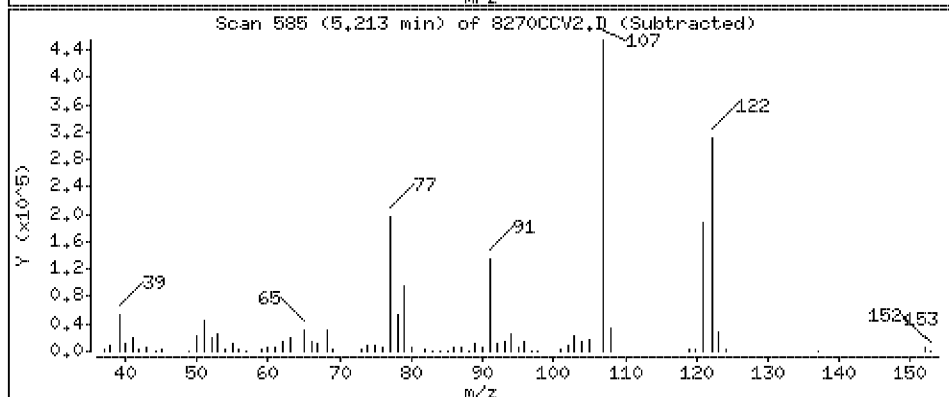
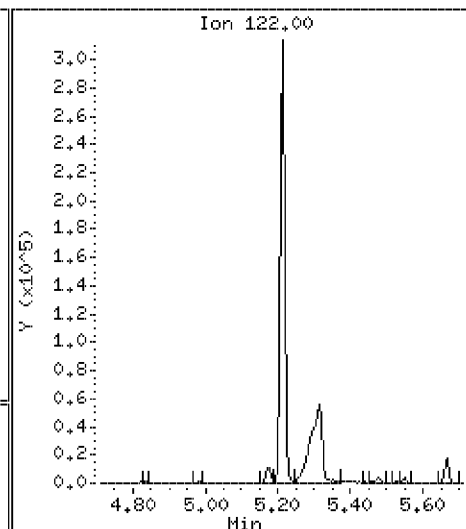
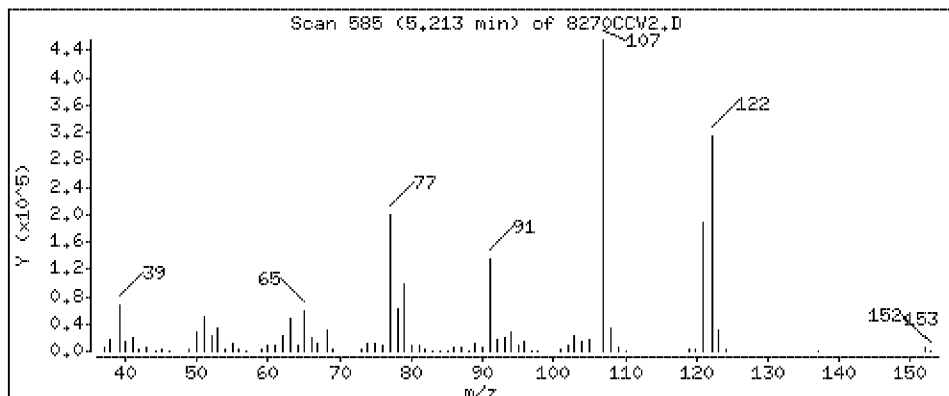
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

36 2,4-Dimethylphenol

Concentration: 45.8 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

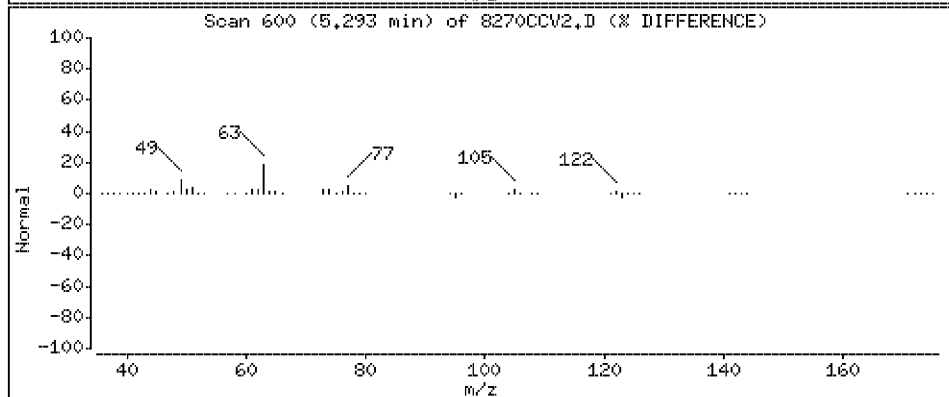
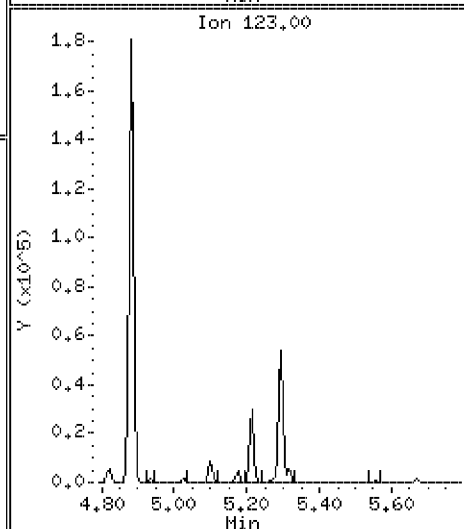
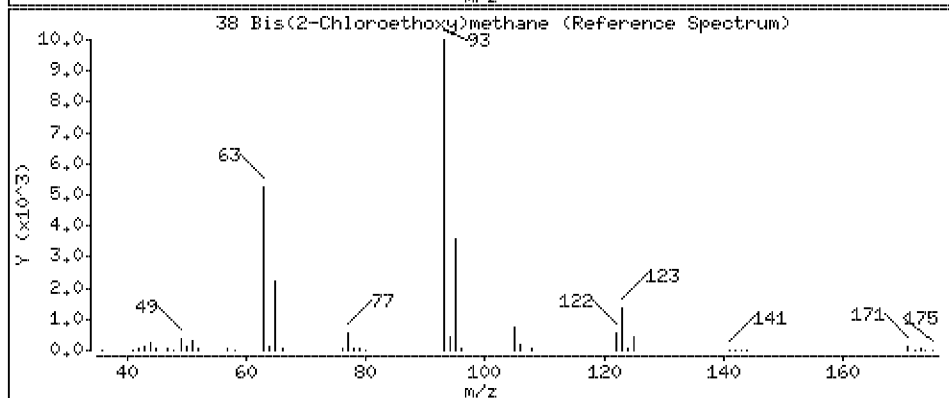
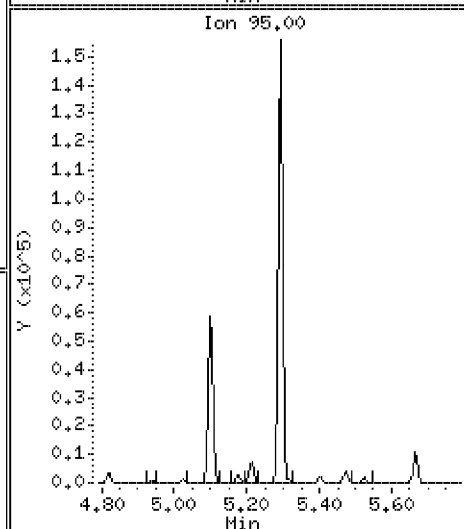
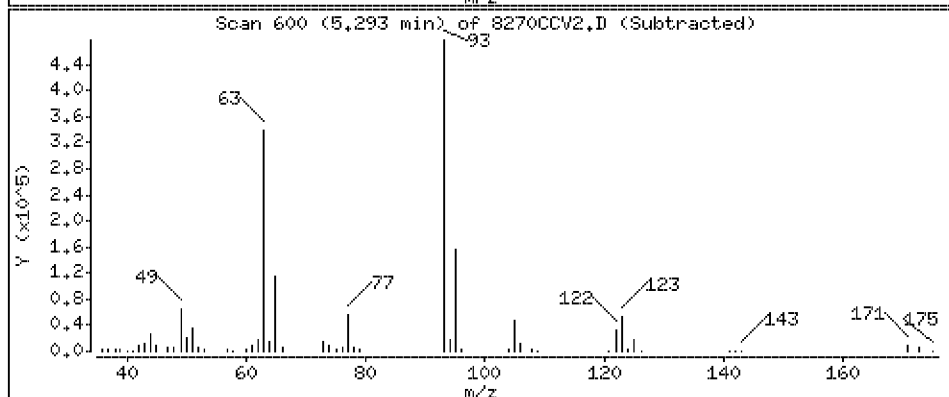
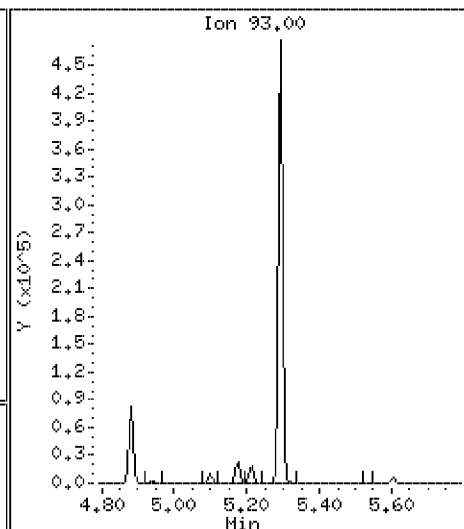
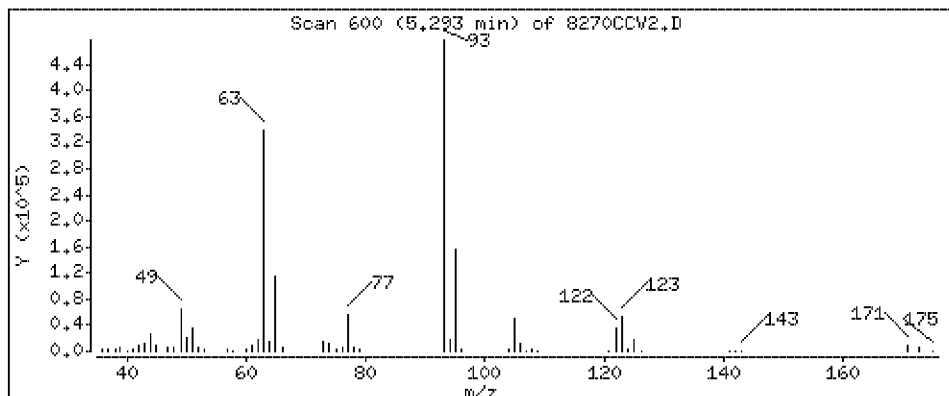
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

38 Bis(2-Chloroethoxy)methane

Concentration: 45.7 ug/l



Date: 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

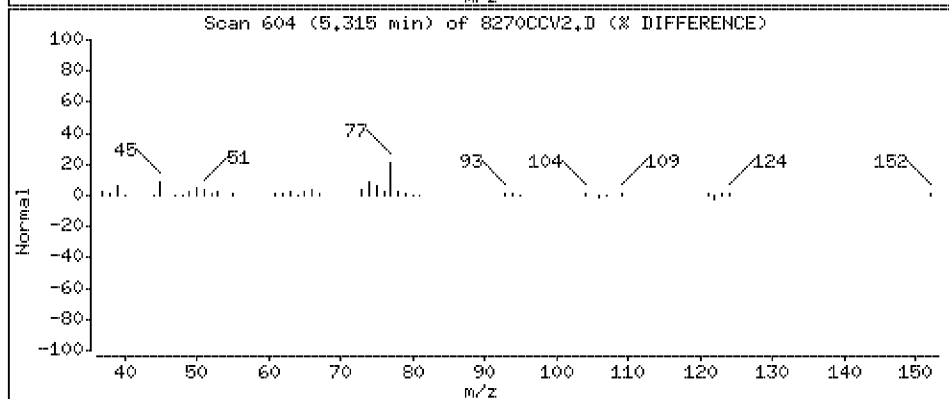
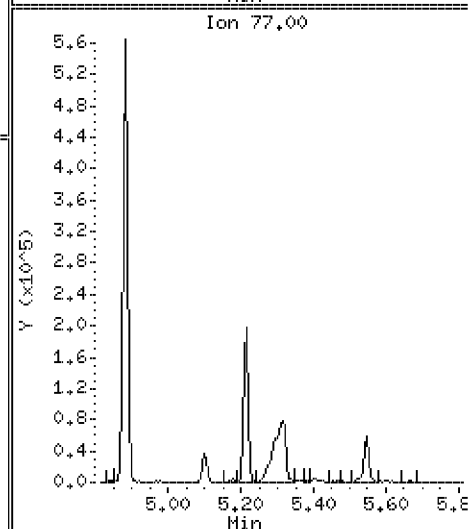
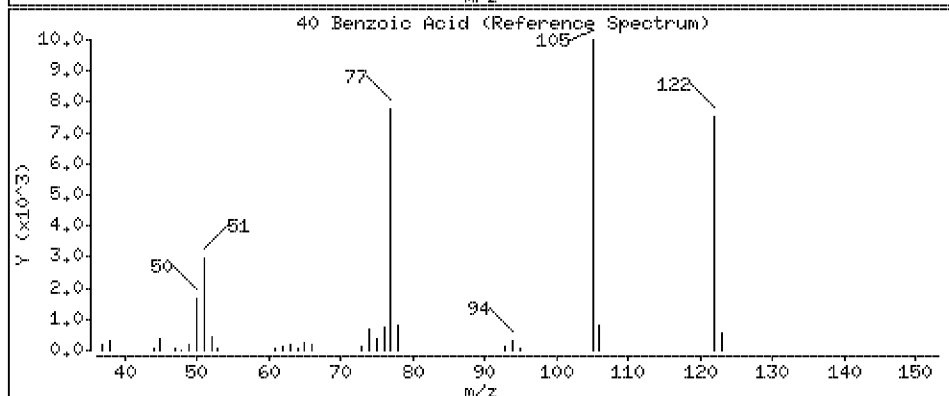
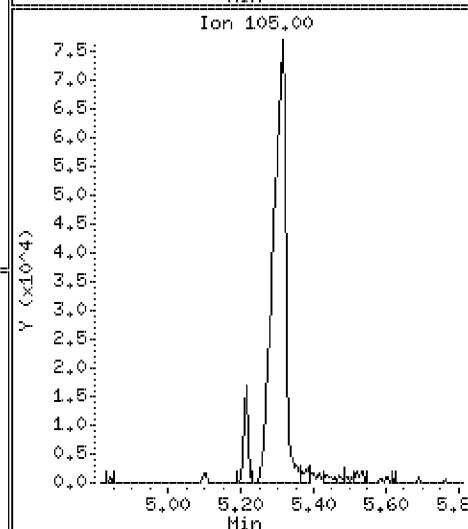
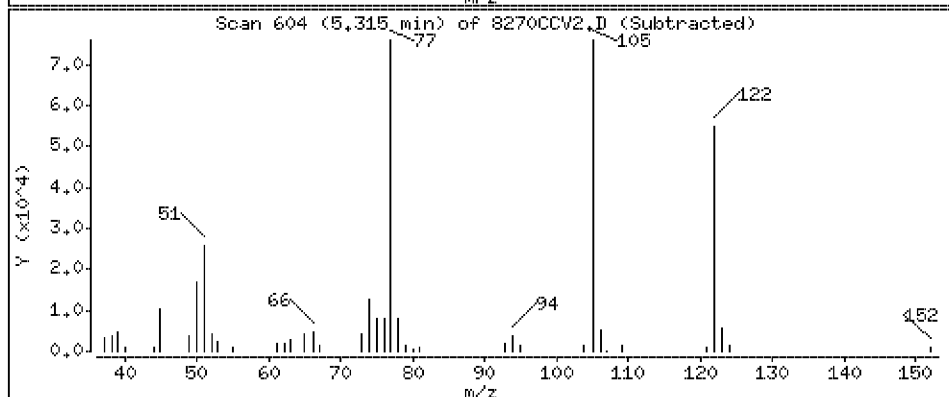
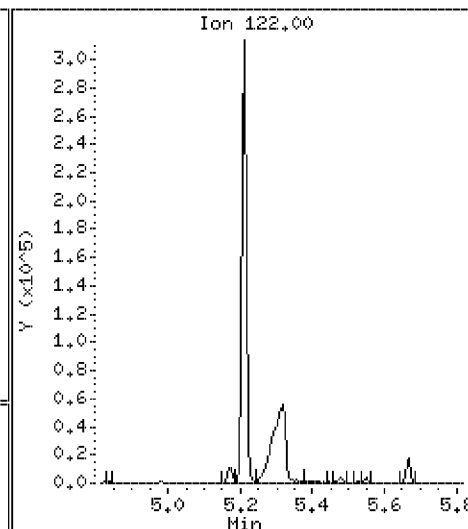
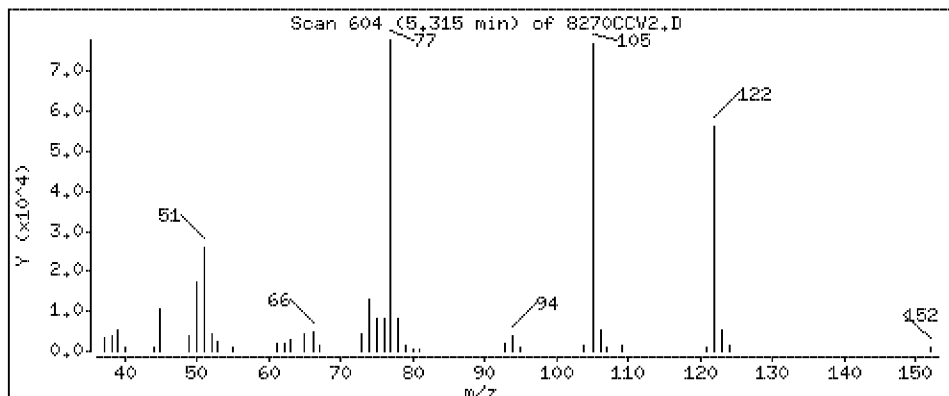
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

40 Benzoic Acid

Concentration: 33.0 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

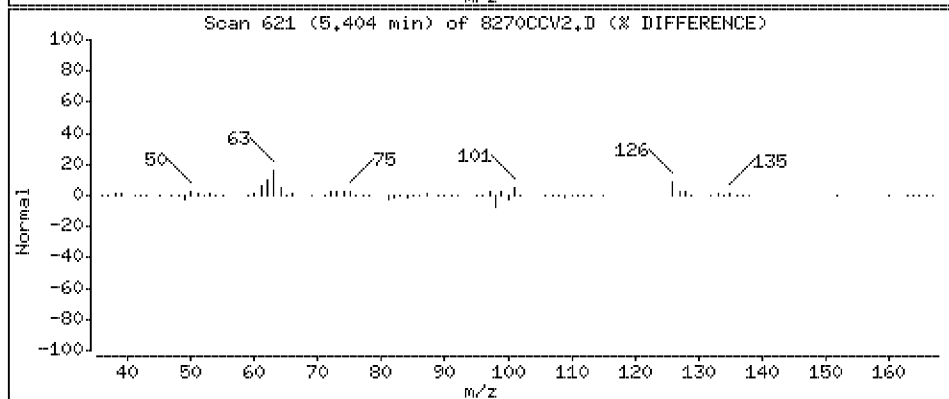
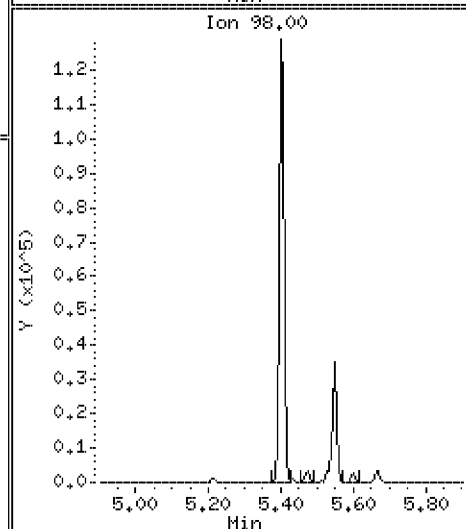
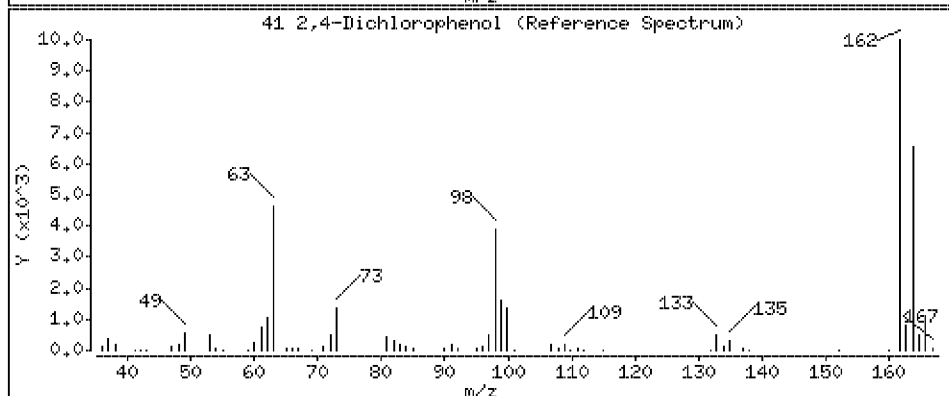
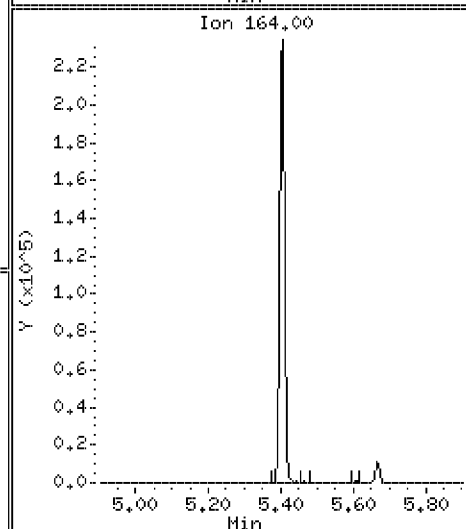
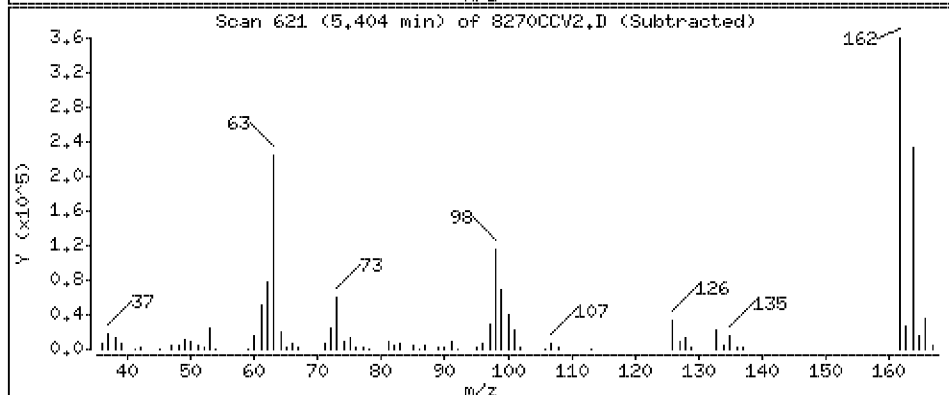
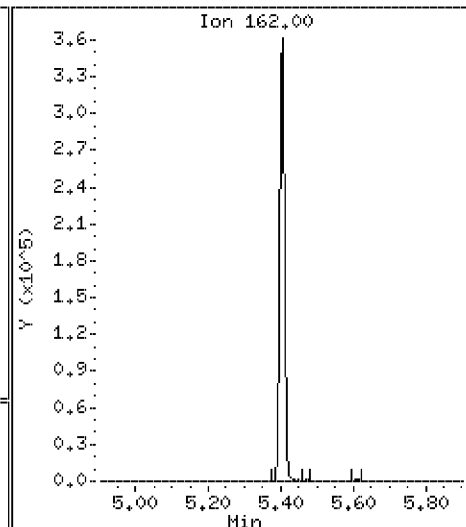
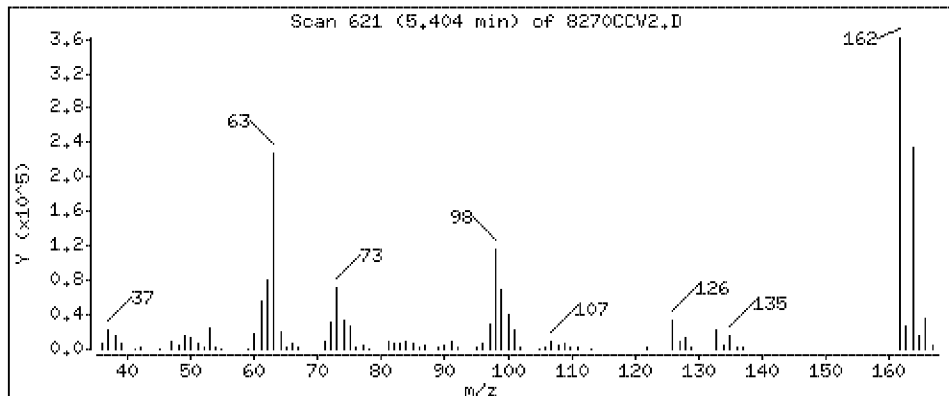
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

41 2,4-Dichlorophenol

Concentration: 48.0 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

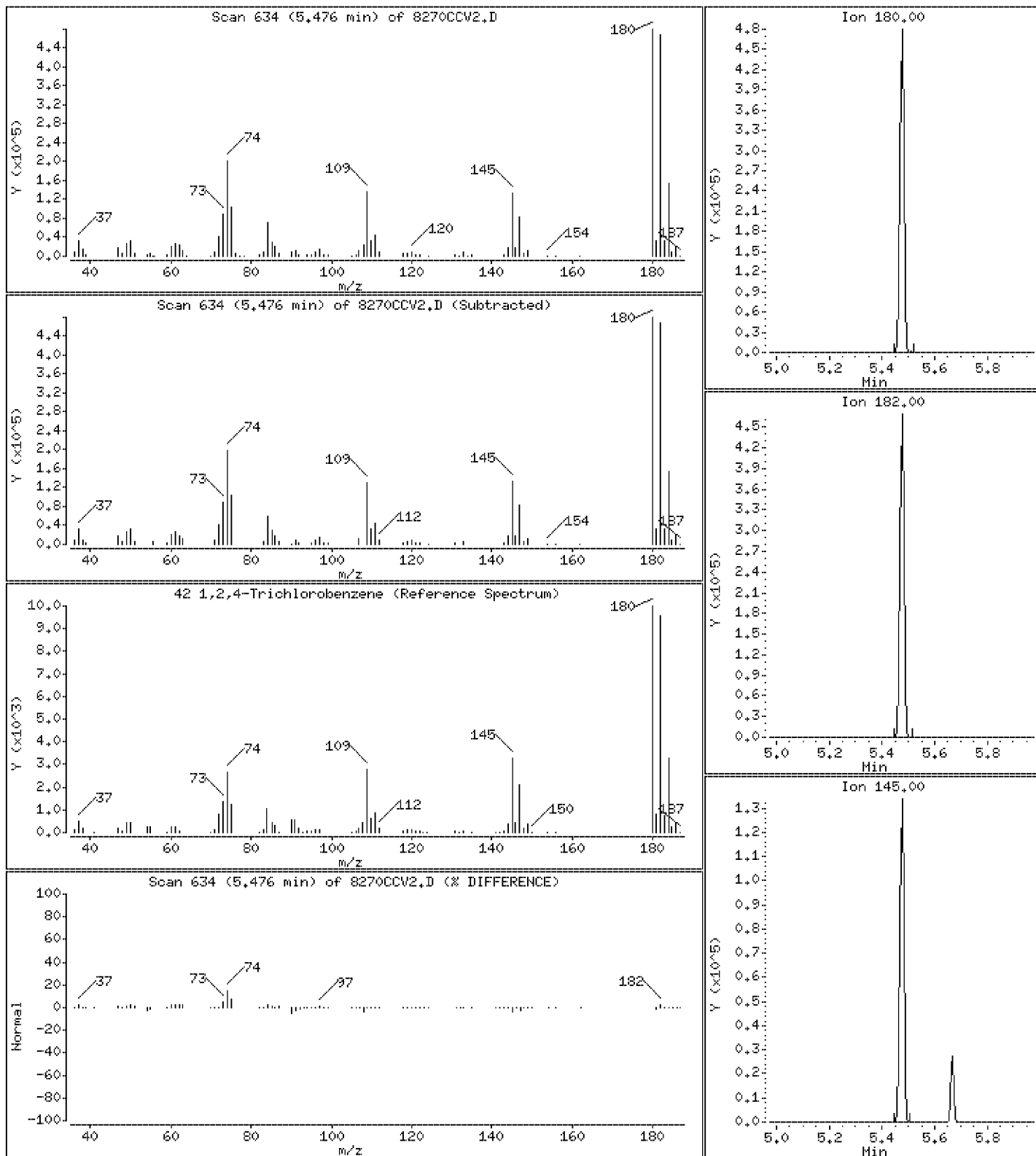
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

42 1,2,4-Trichlorobenzene

Concentration: 46.8 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

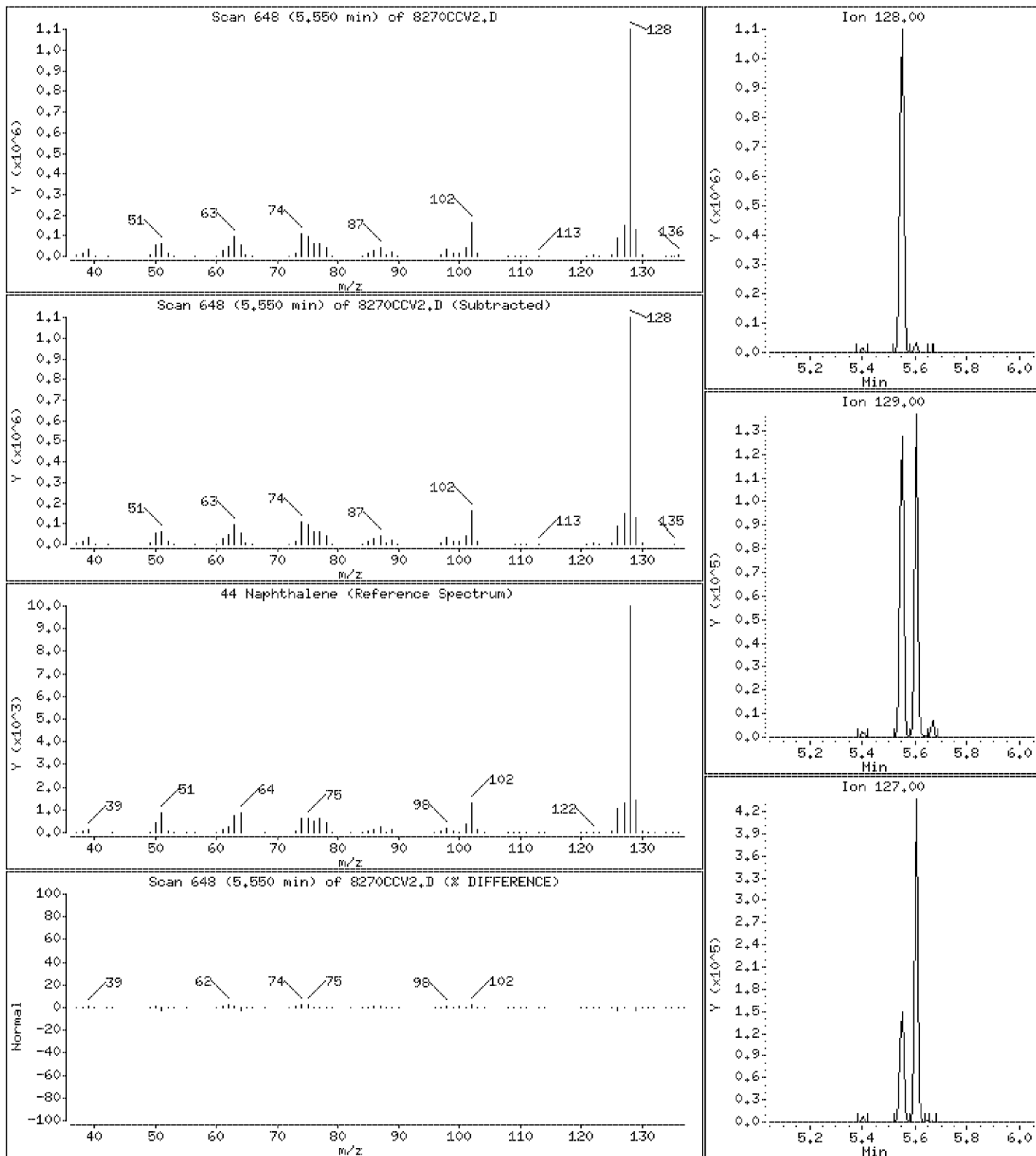
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

44 Naphthalene

Concentration: 46.3 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

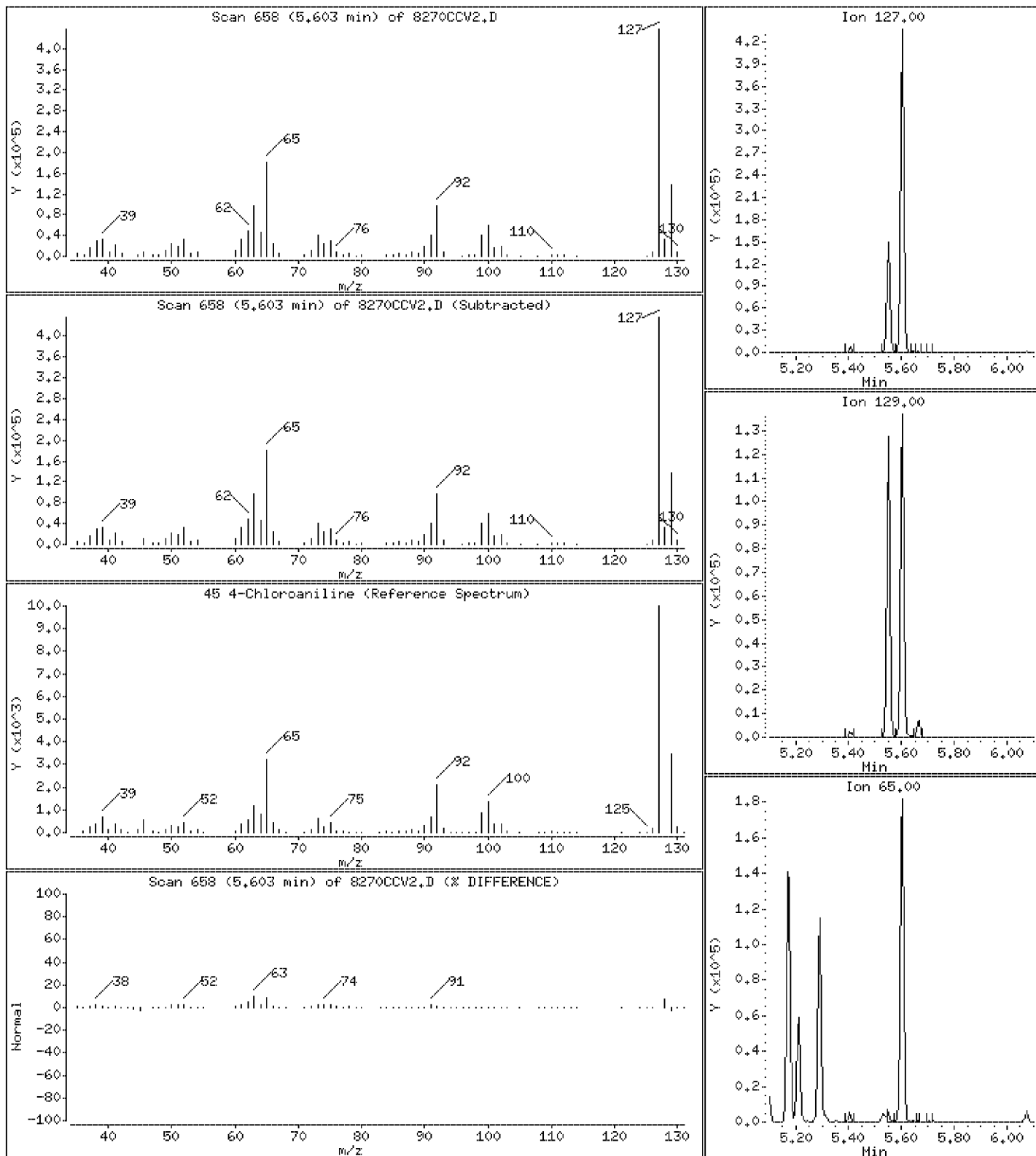
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

45 4-Chloroaniline

Concentration: 44.9 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

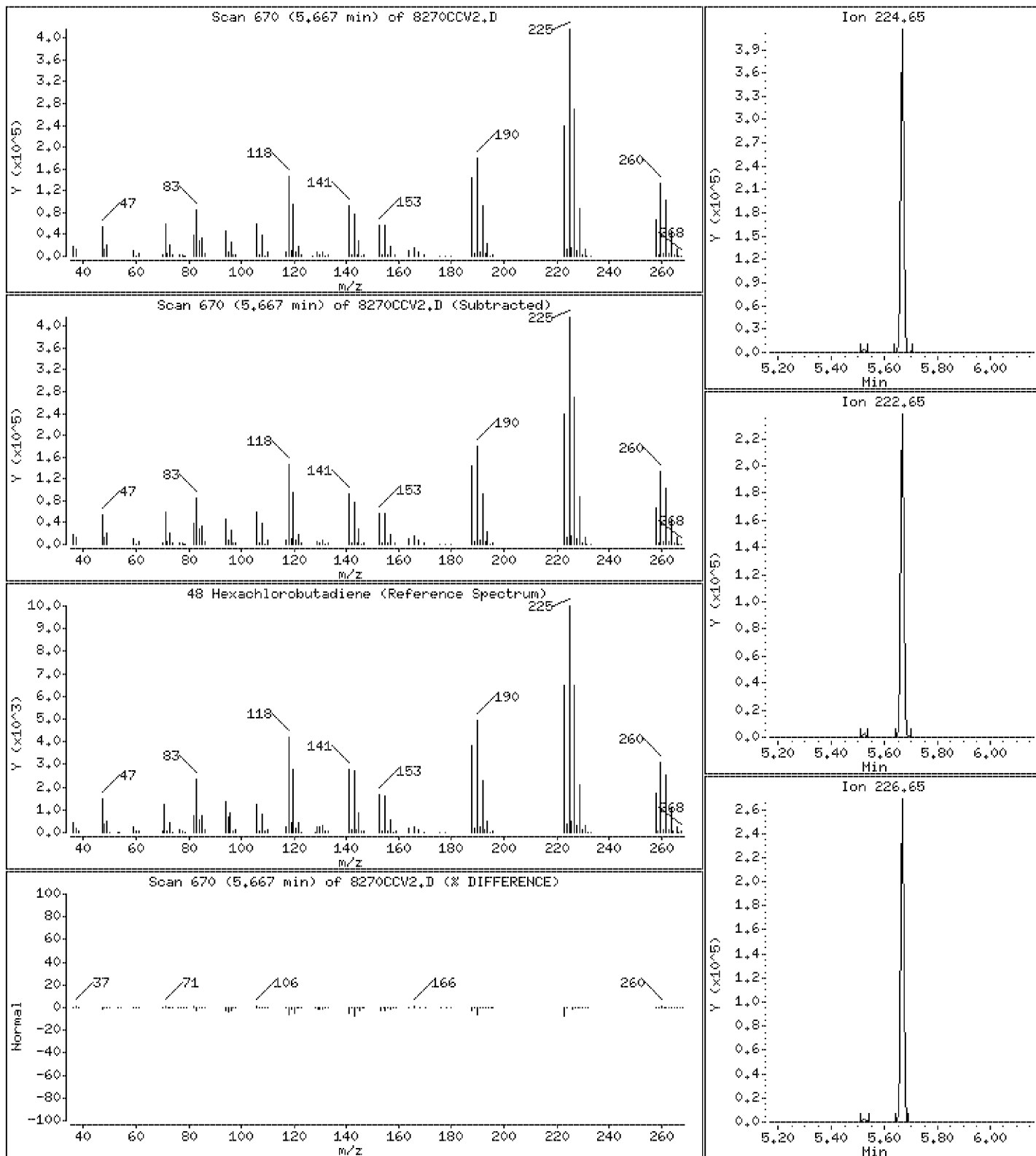
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

48 Hexachlorobutadiene

Concentration: 50.1 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

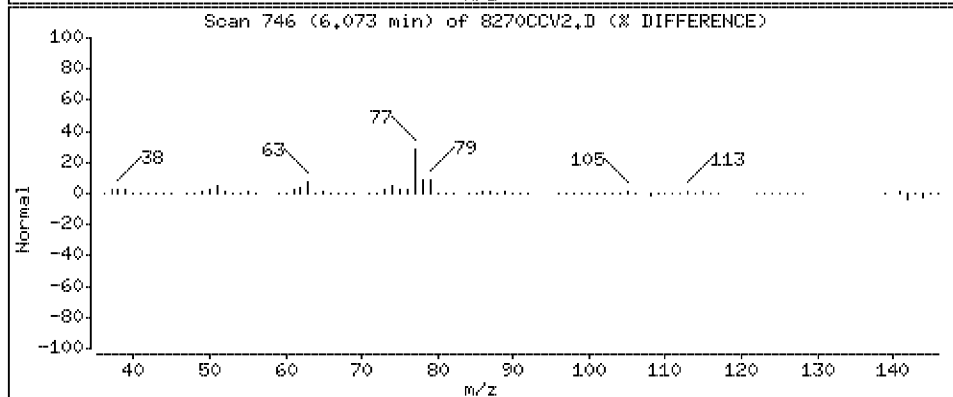
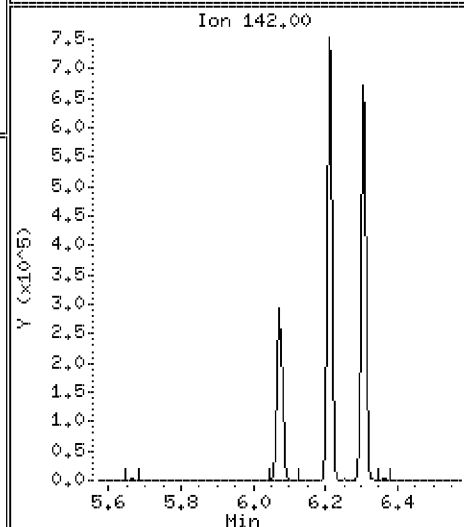
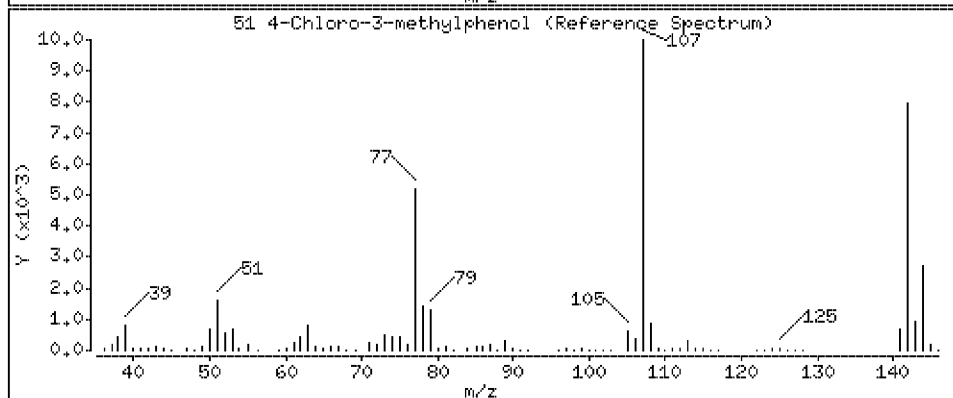
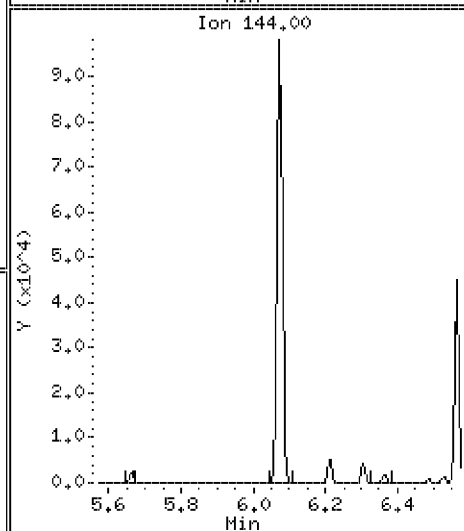
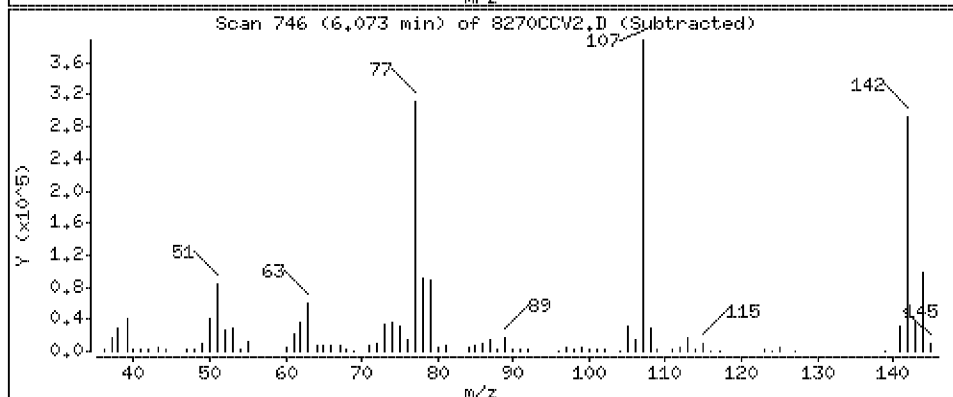
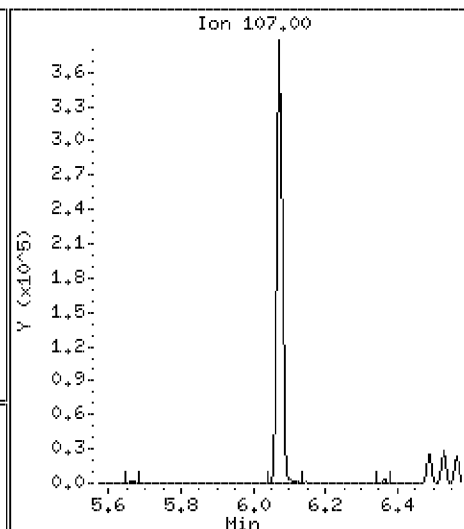
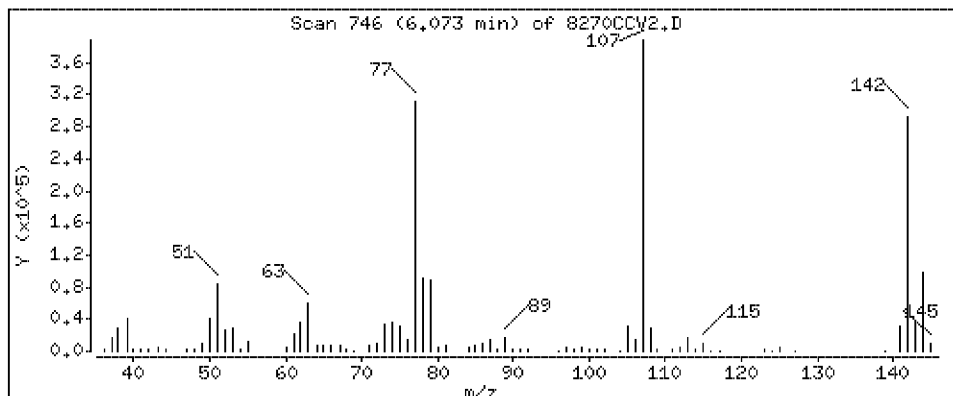
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

51 4-Chloro-3-methylphenol

Concentration: 47.9 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

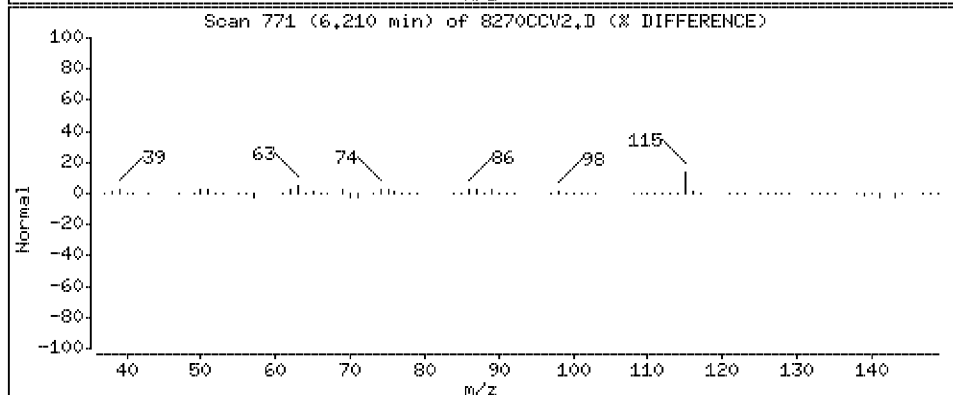
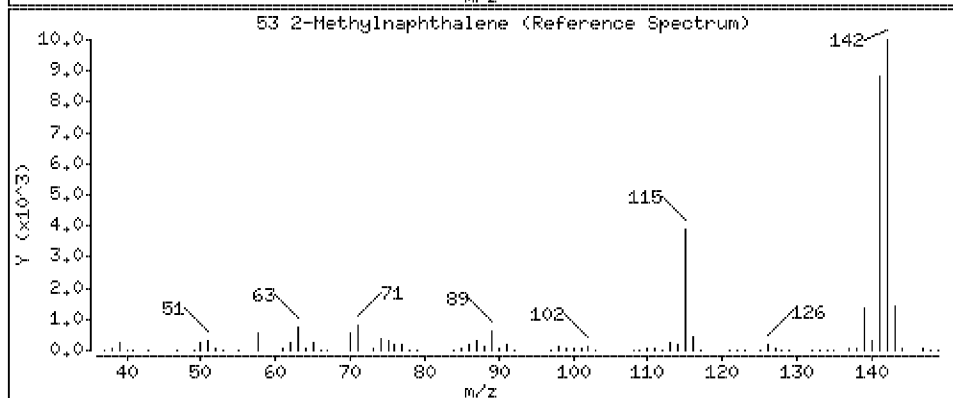
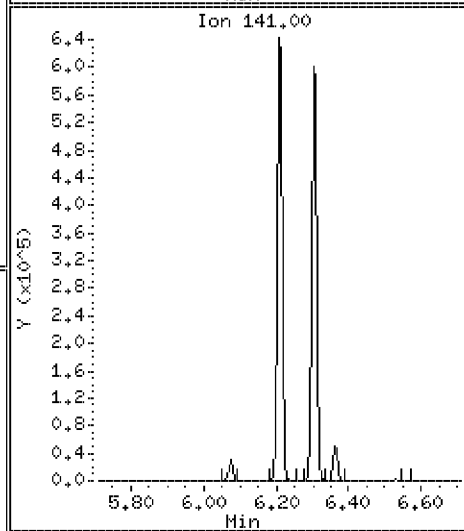
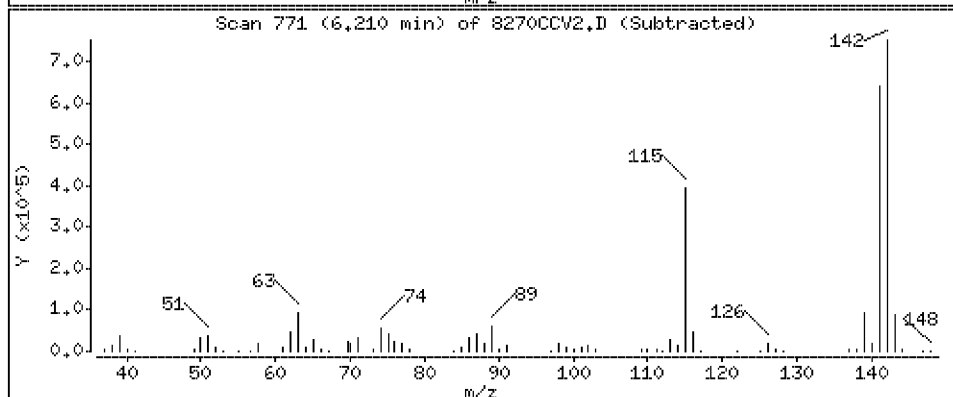
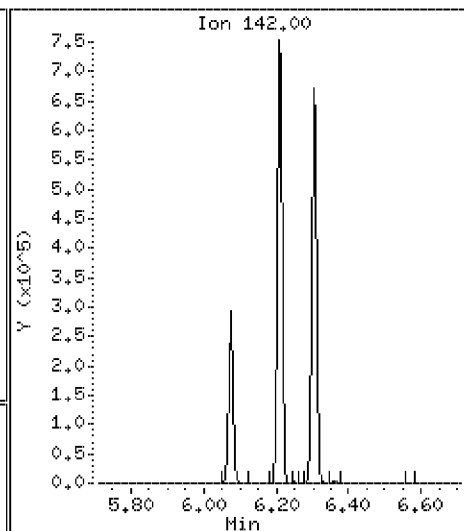
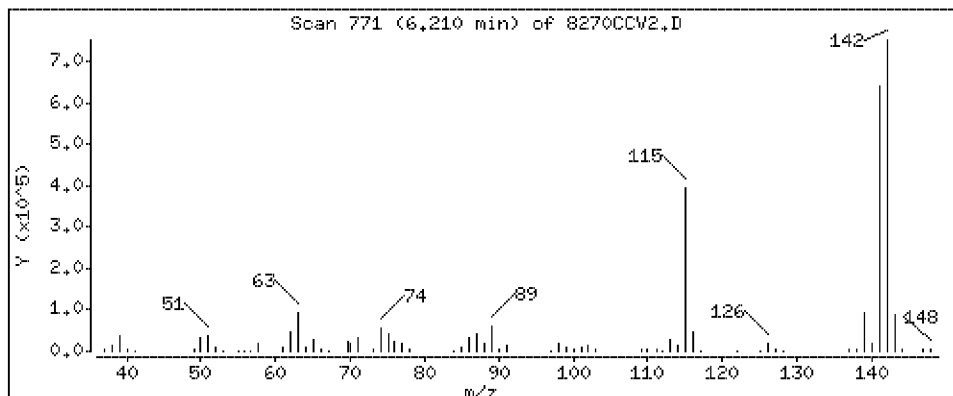
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

53 2-Methylnaphthalene

Concentration: 47.2 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

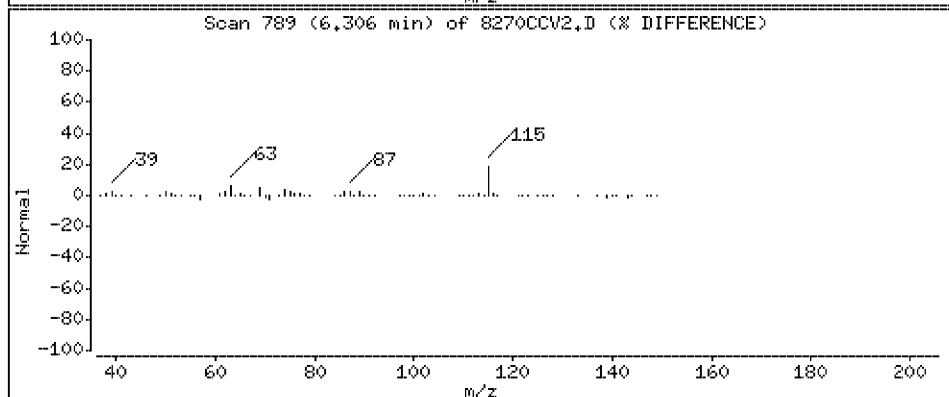
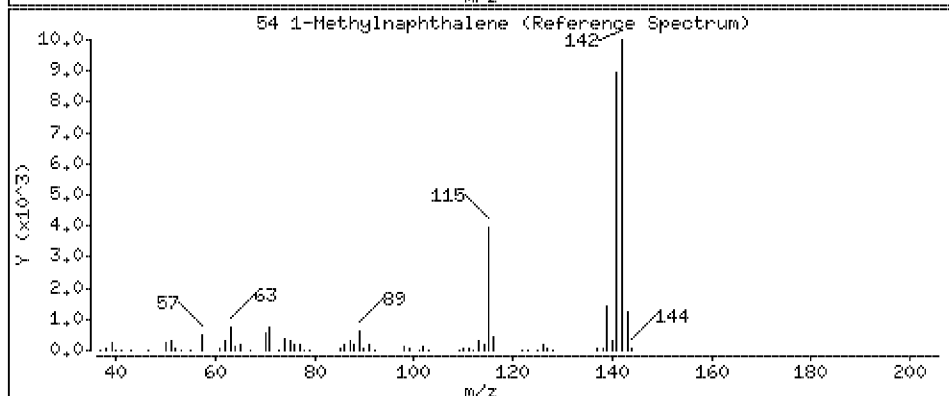
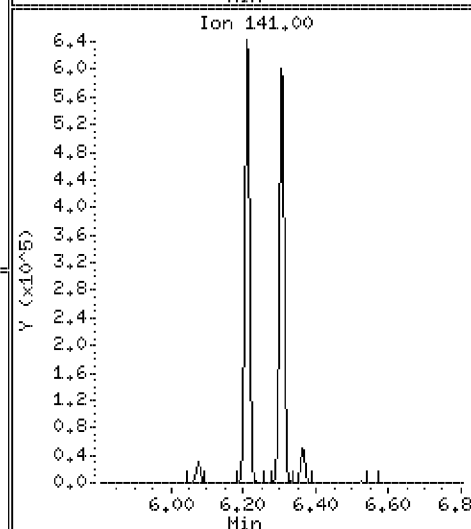
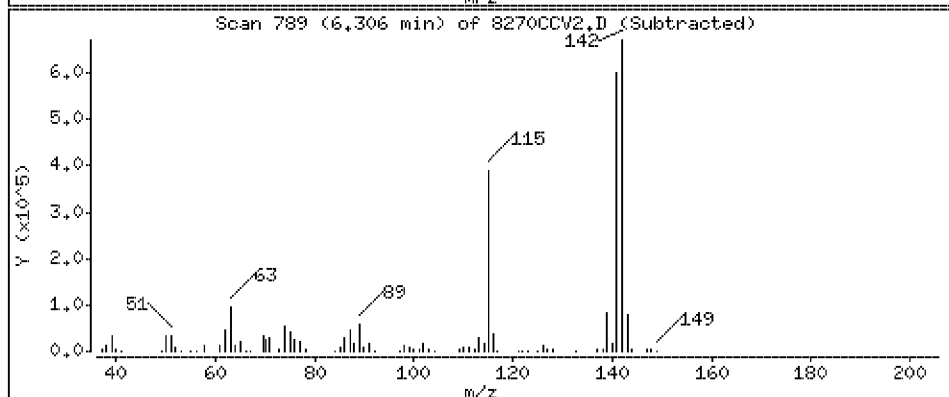
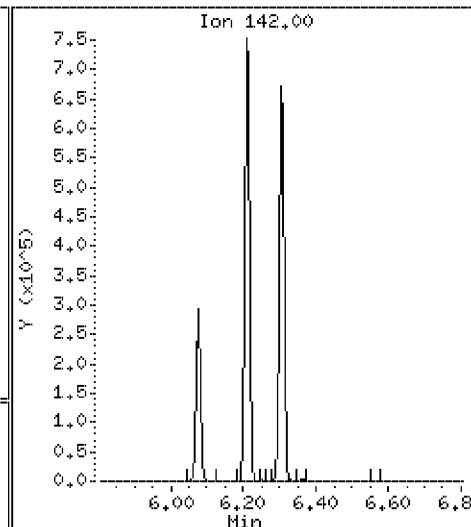
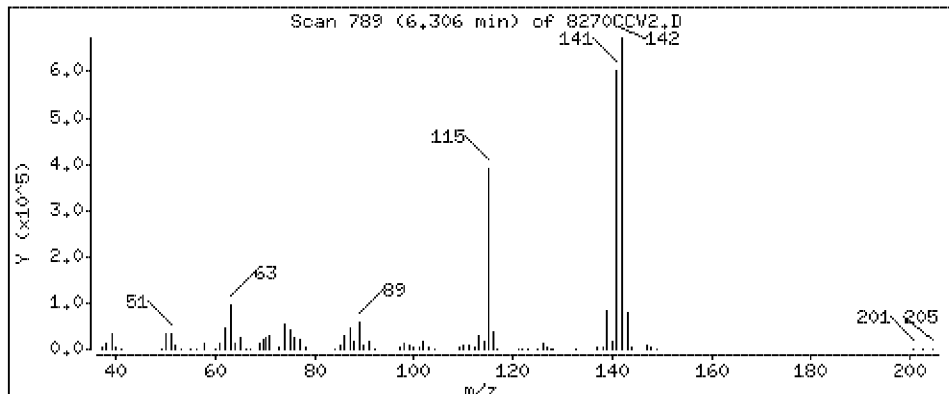
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

54 1-Methylnaphthalene

Concentration: 46.6 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

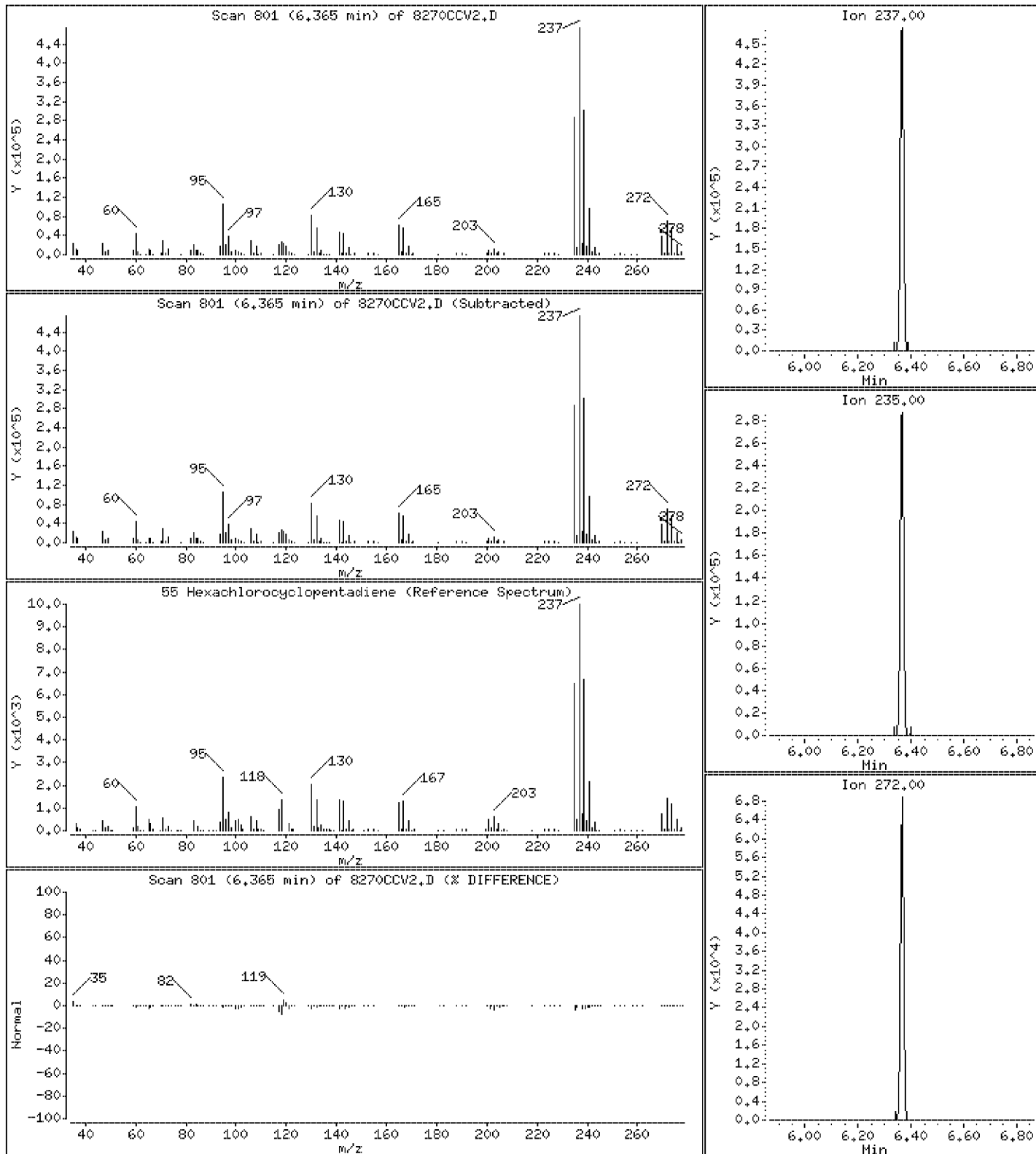
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

55 Hexachlorocyclopentadiene

Concentration: 49.8 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

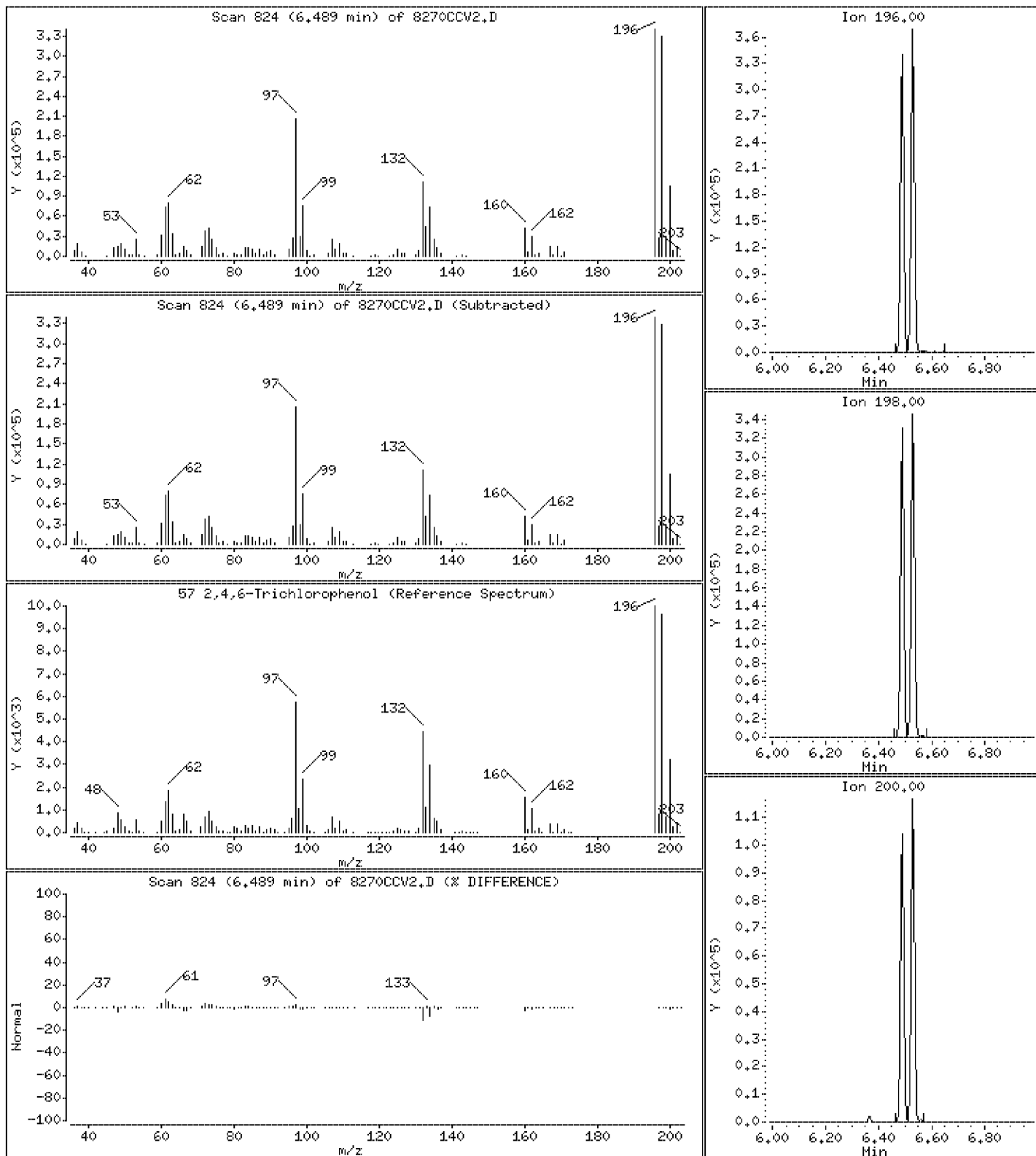
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

57 2,4,6-Trichlorophenol

Concentration: 44.2 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

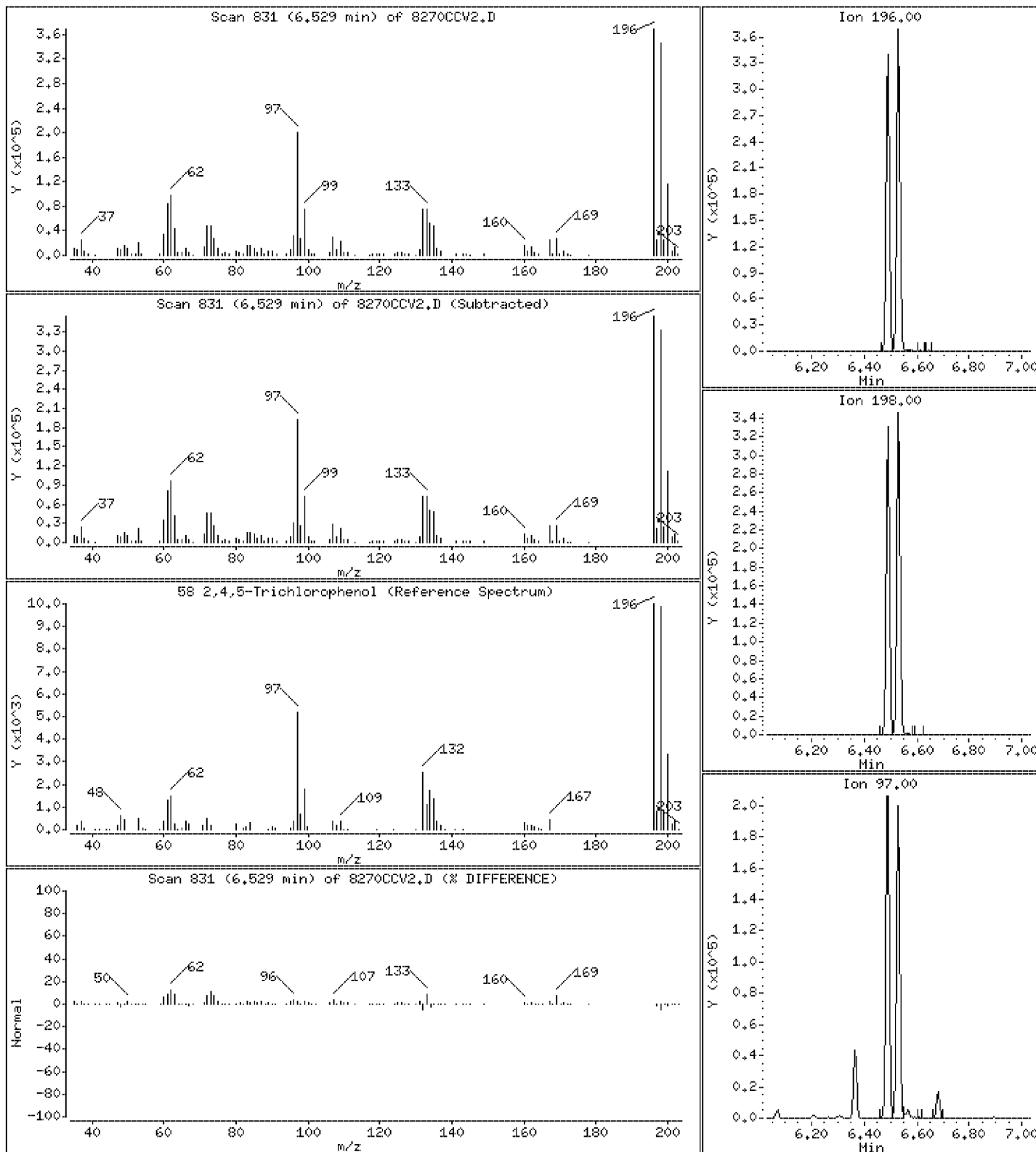
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

58 2,4,5-Trichlorophenol

Concentration: 51.8 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

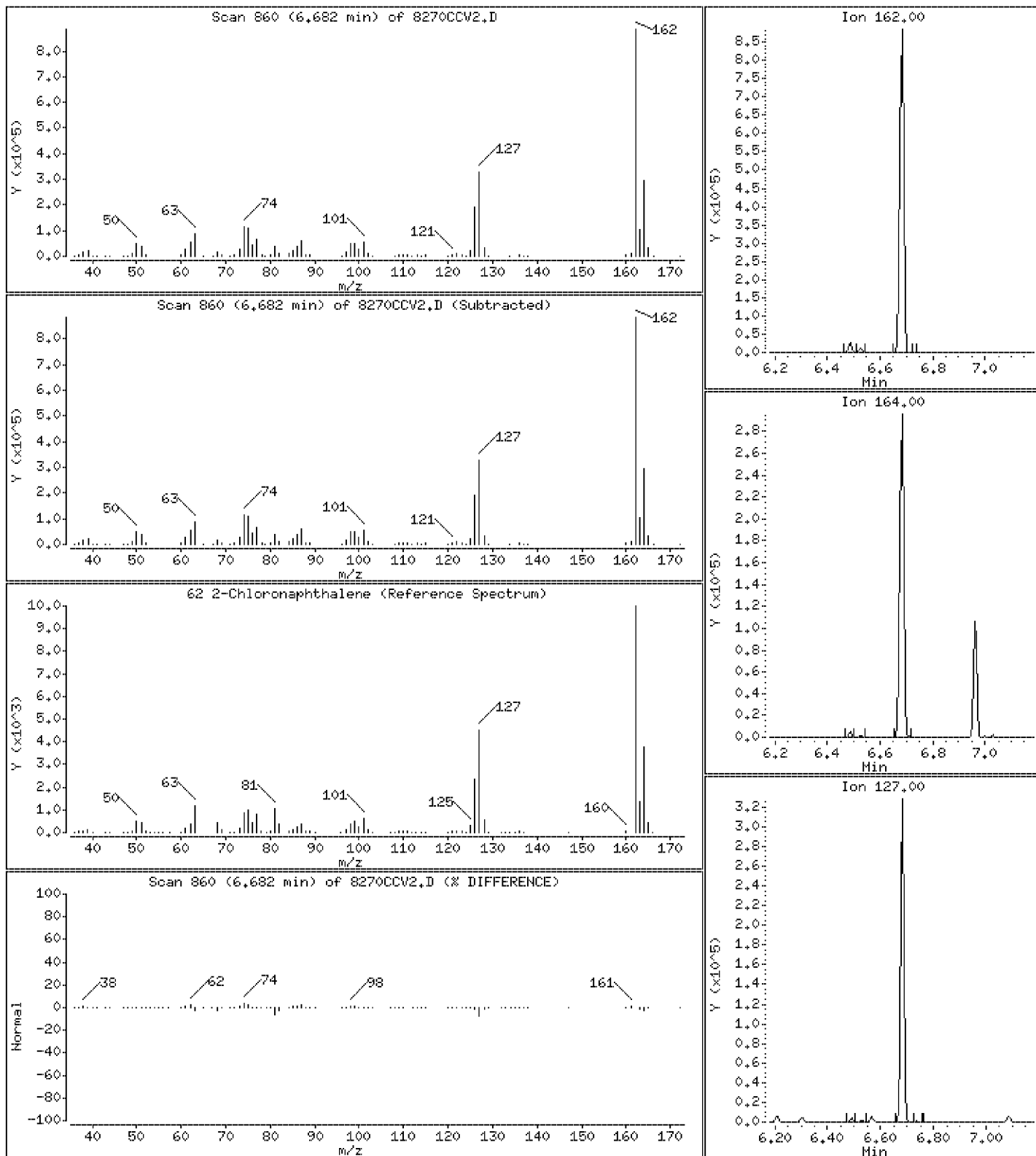
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

62 2-Chloronaphthalene

Concentration: 46.4 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

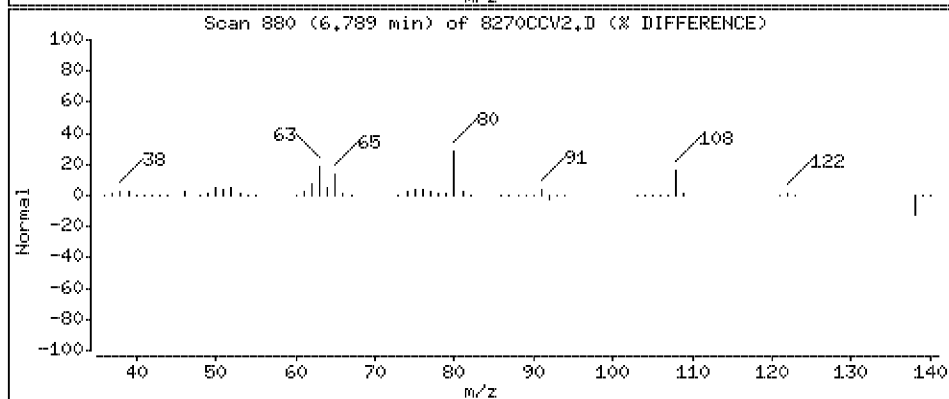
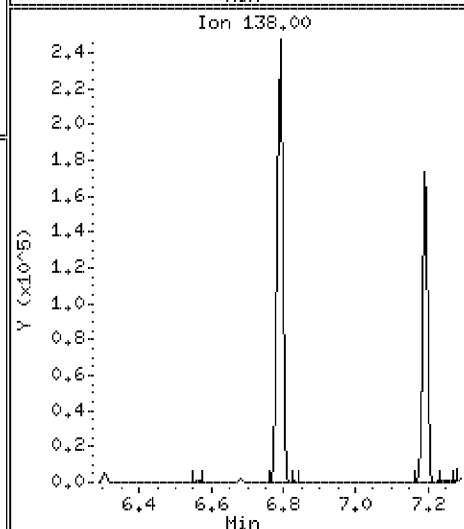
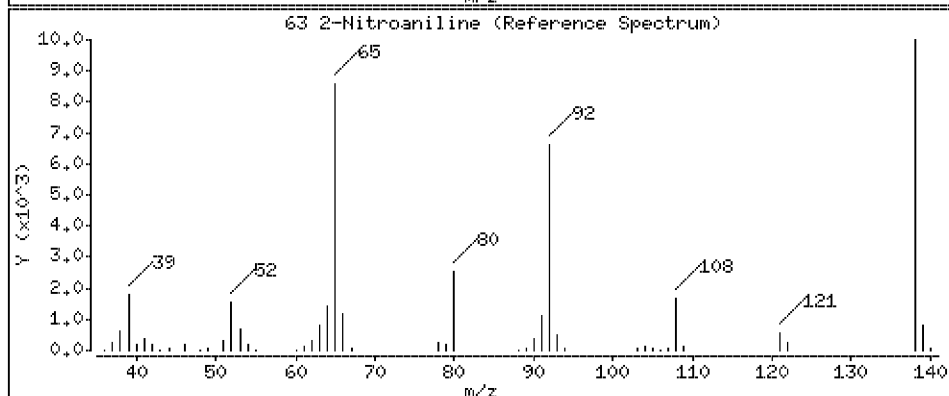
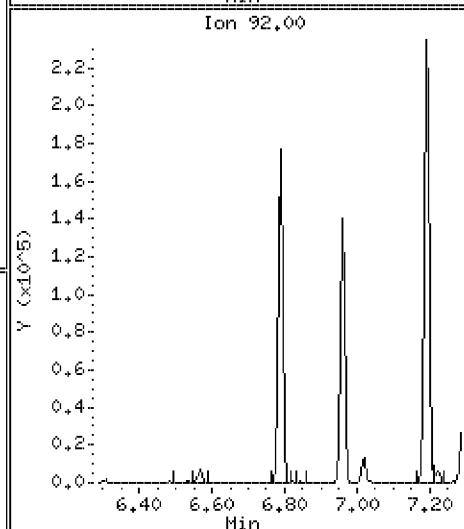
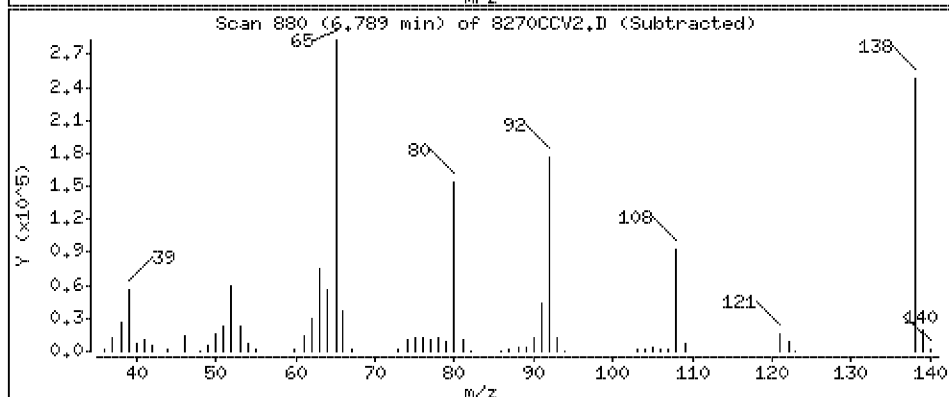
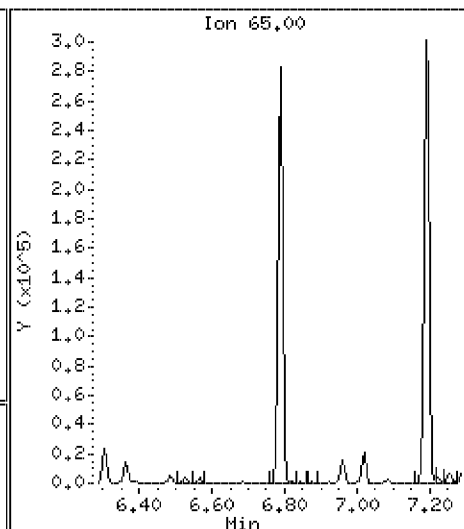
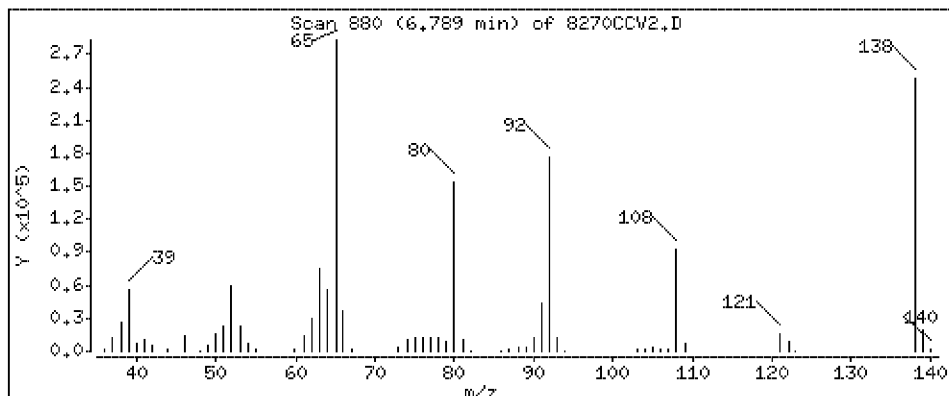
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

63 2-Nitroaniline

Concentration: 46.4 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

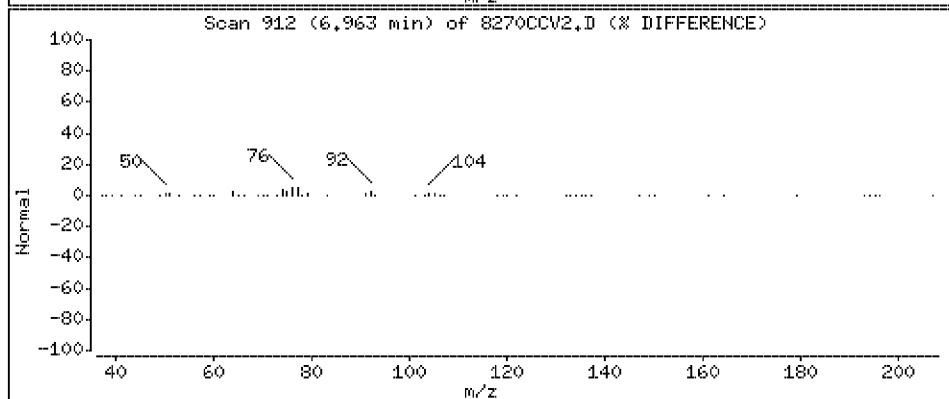
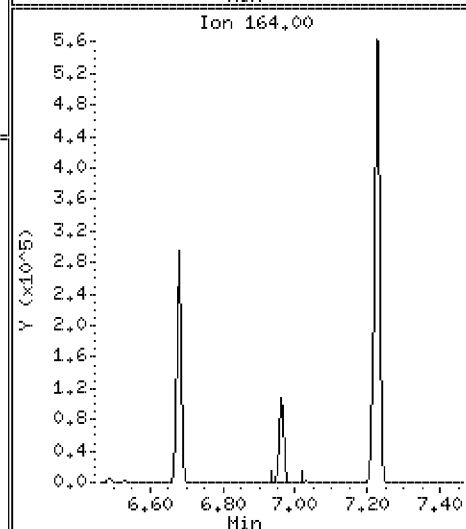
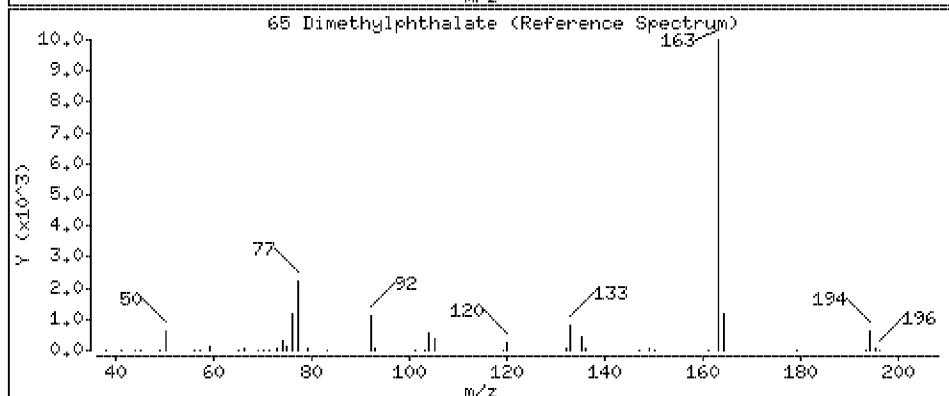
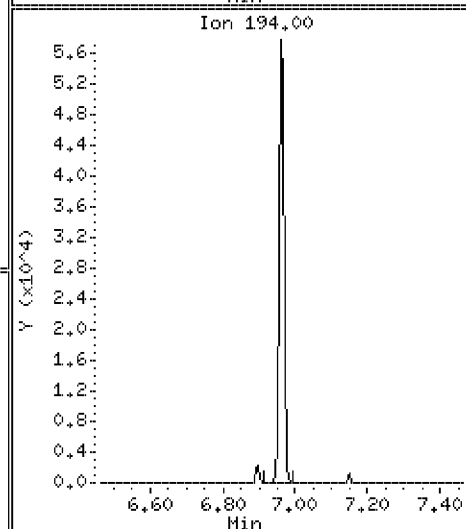
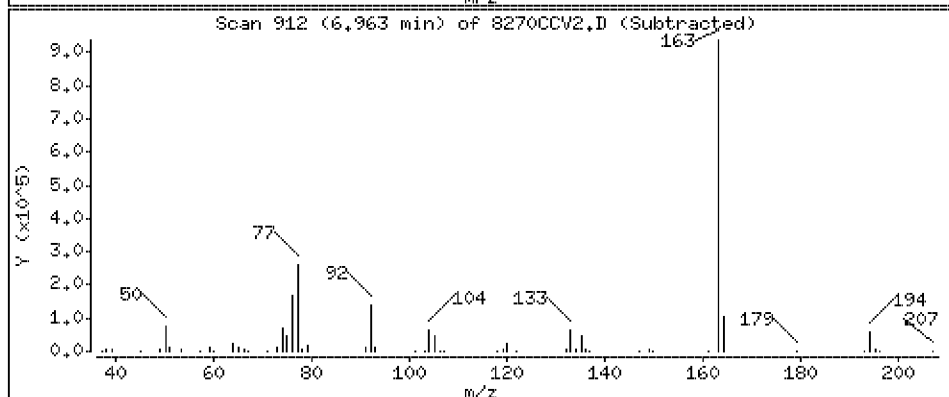
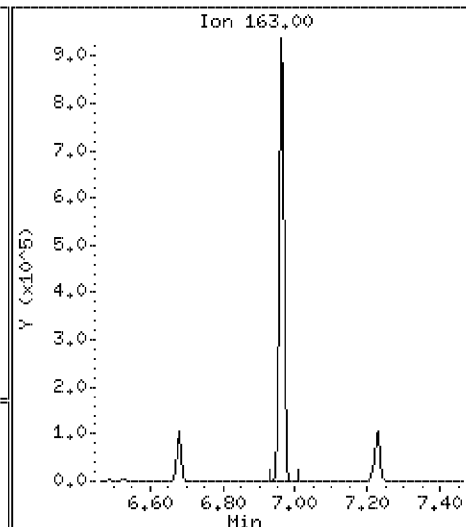
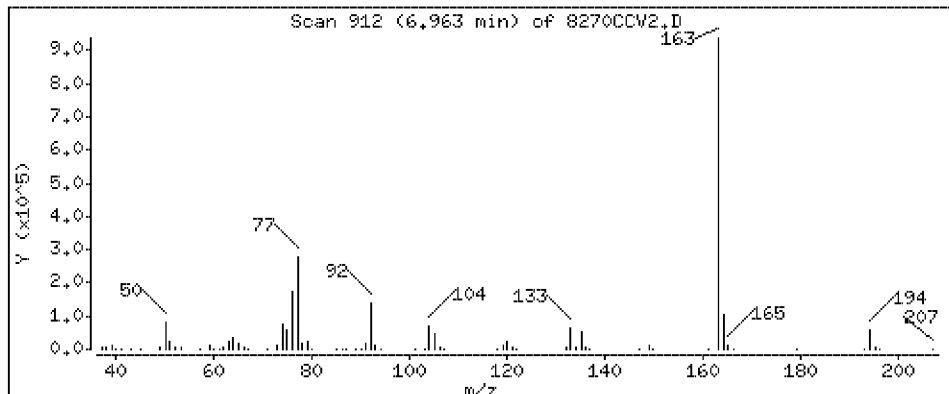
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

65 Dimethylphthalate

Concentration: 47.0 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

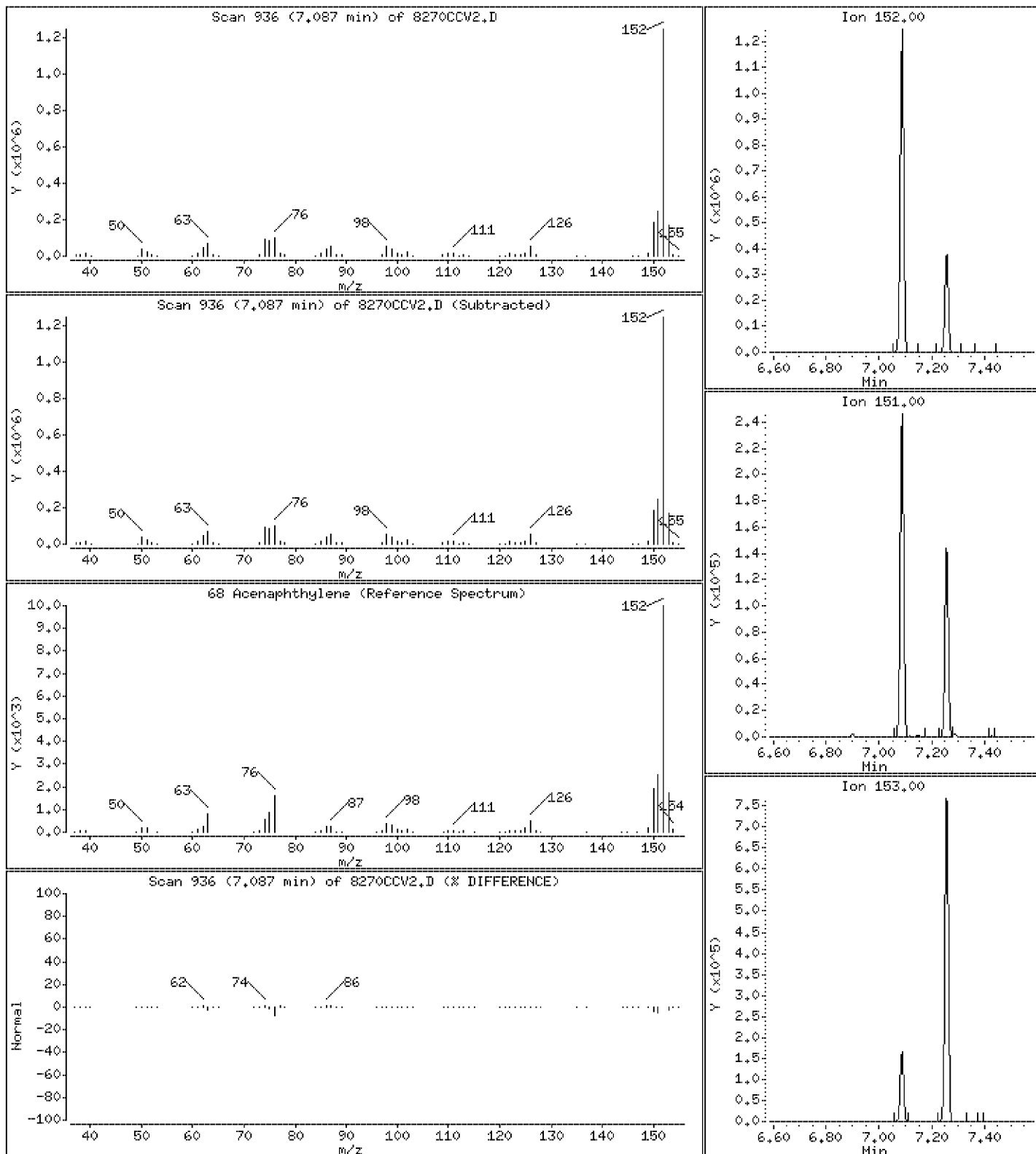
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

68 Acenaphthylene

Concentration: 47.2 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

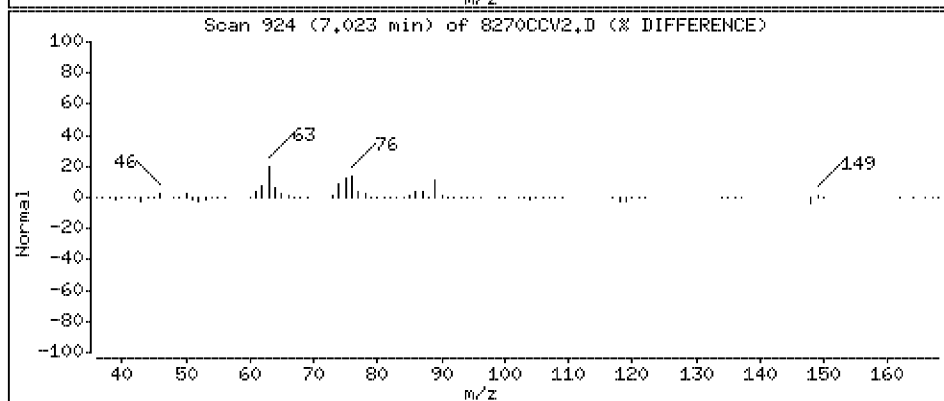
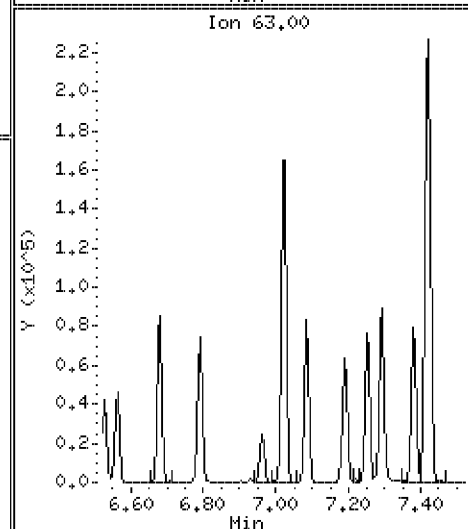
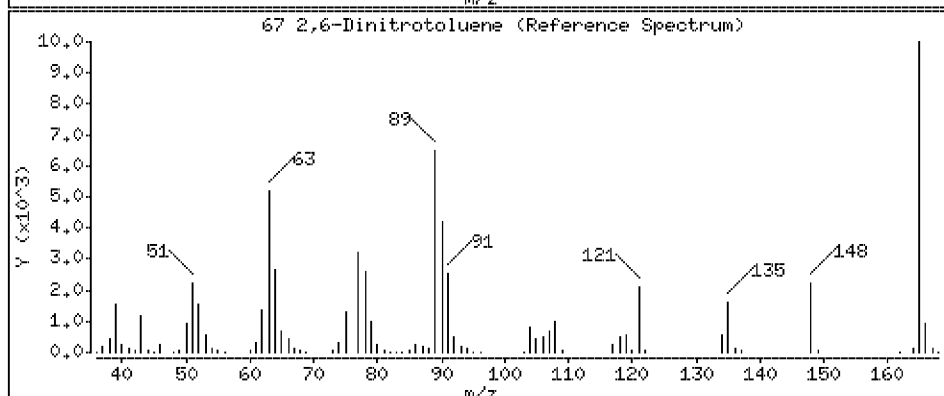
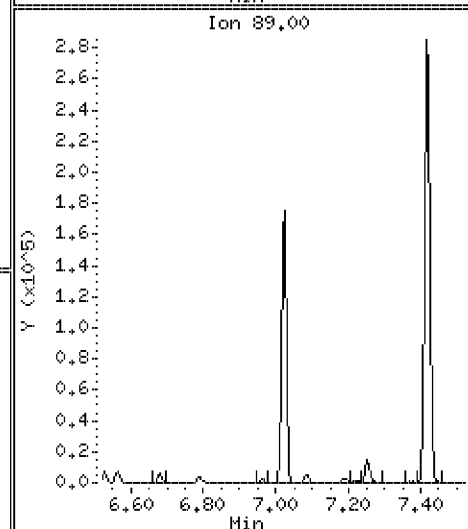
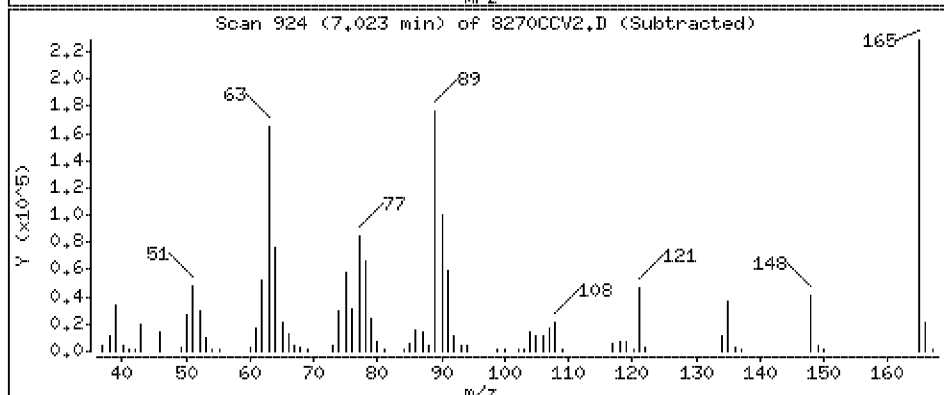
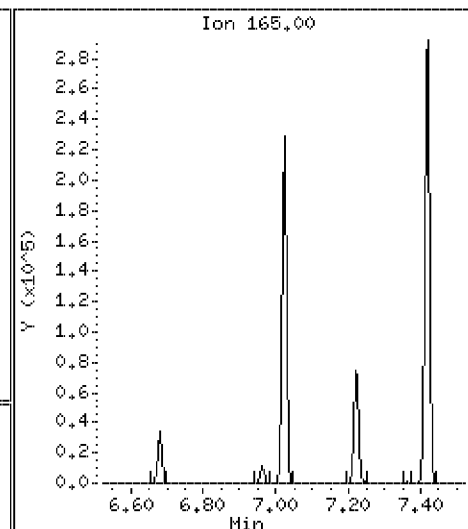
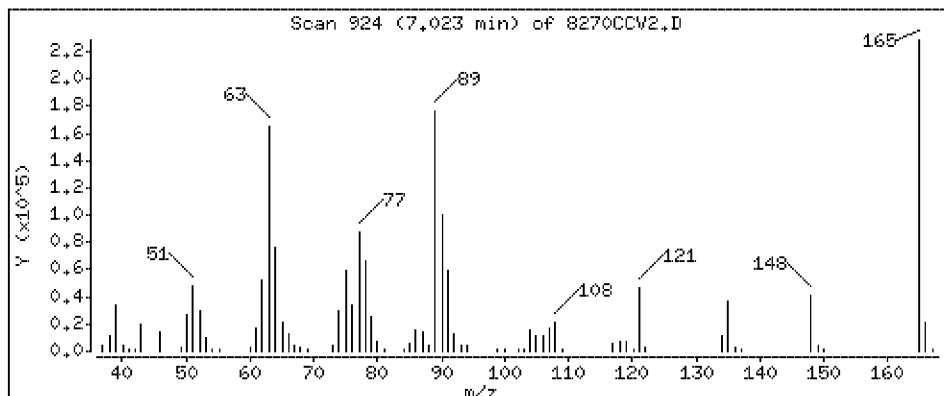
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

67 2,6-Dinitrotoluene

Concentration: 46.7 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

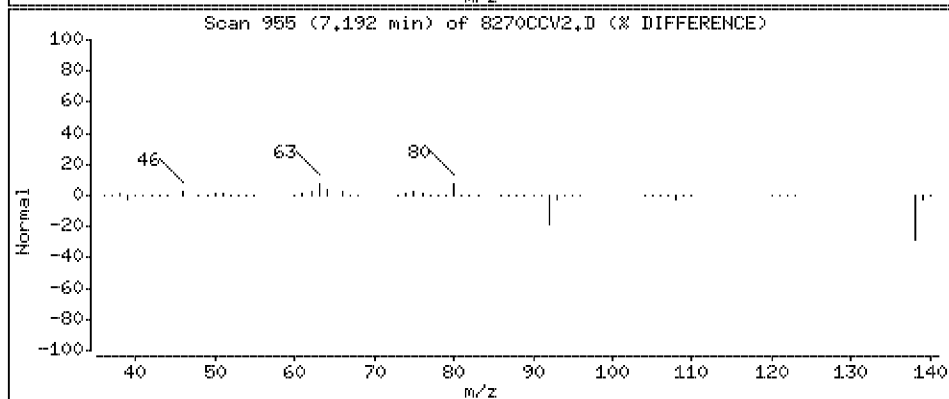
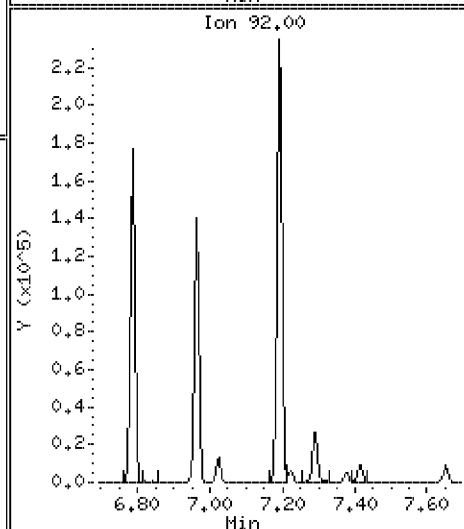
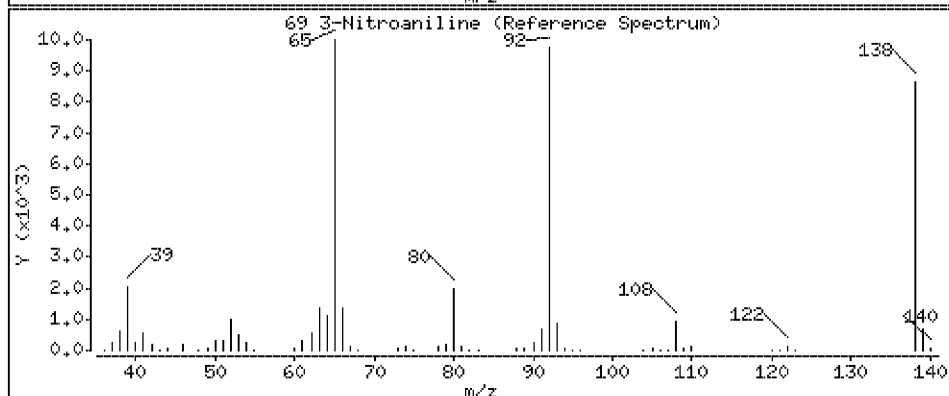
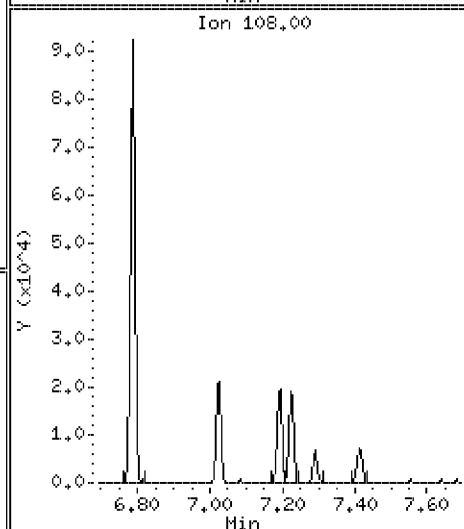
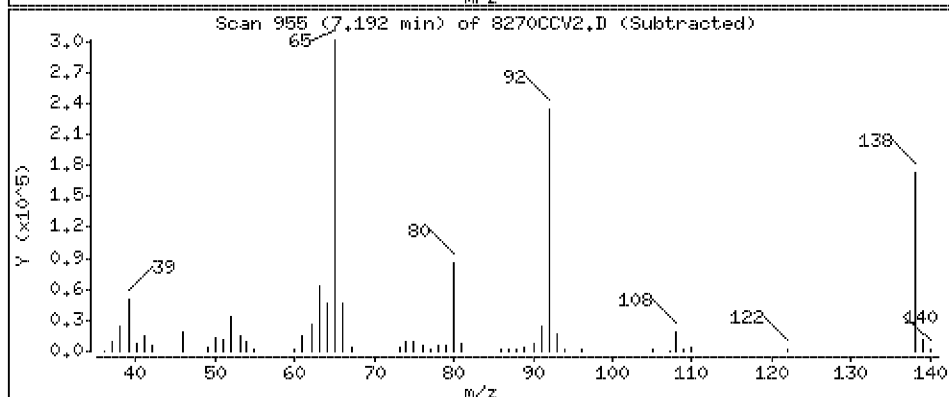
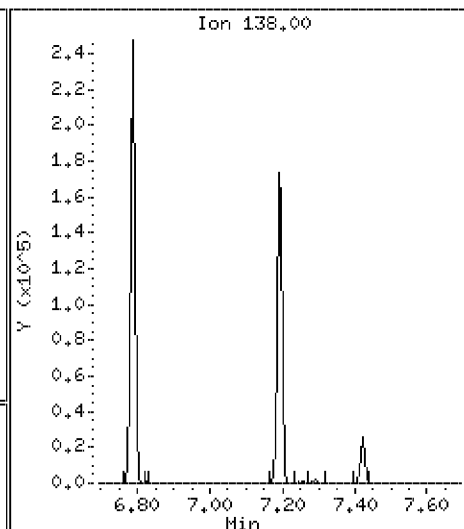
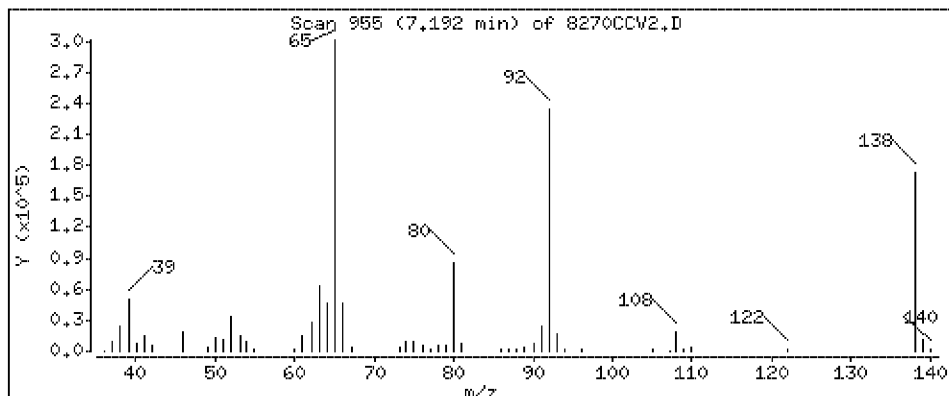
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

69 3-Nitroaniline

Concentration: 44.2 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

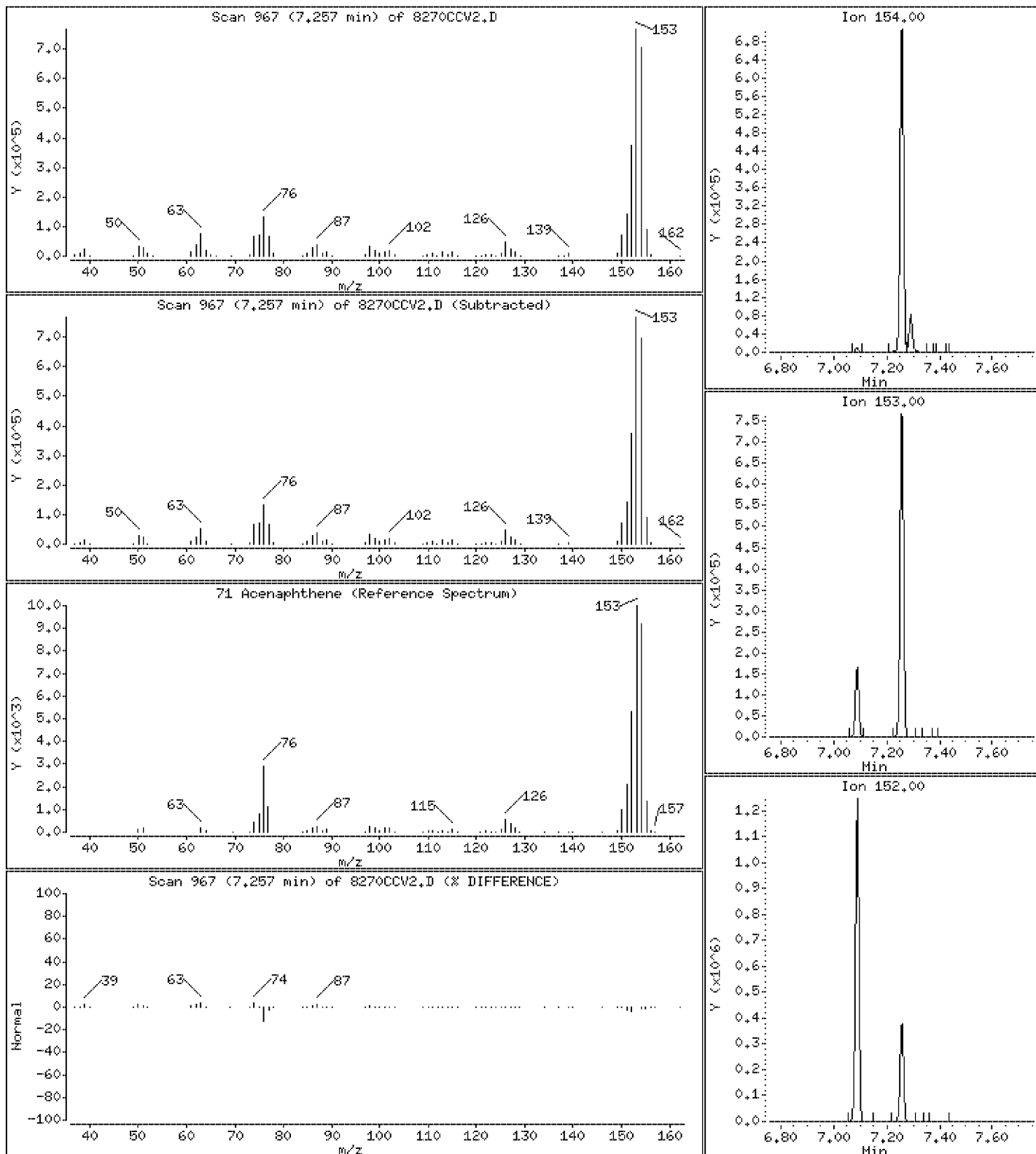
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

71 Acenaphthene

Concentration: 46.0 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

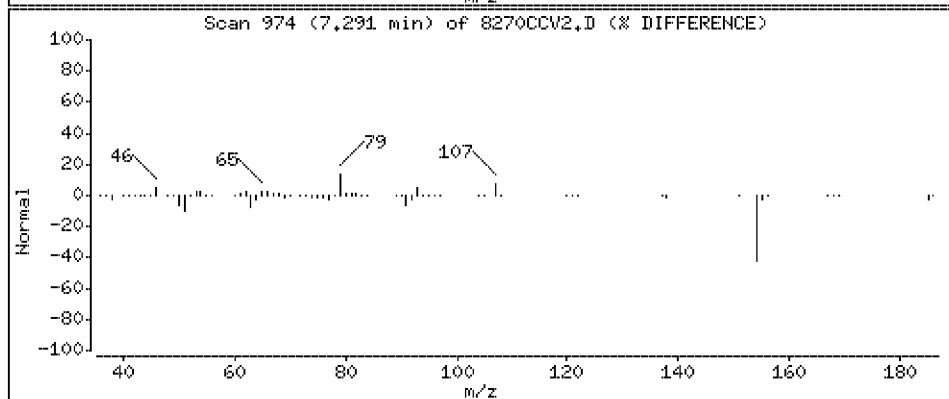
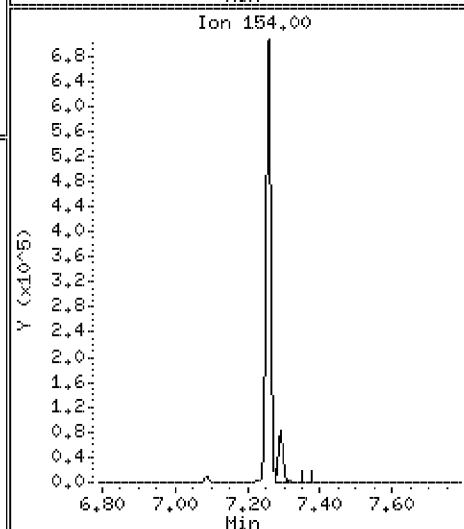
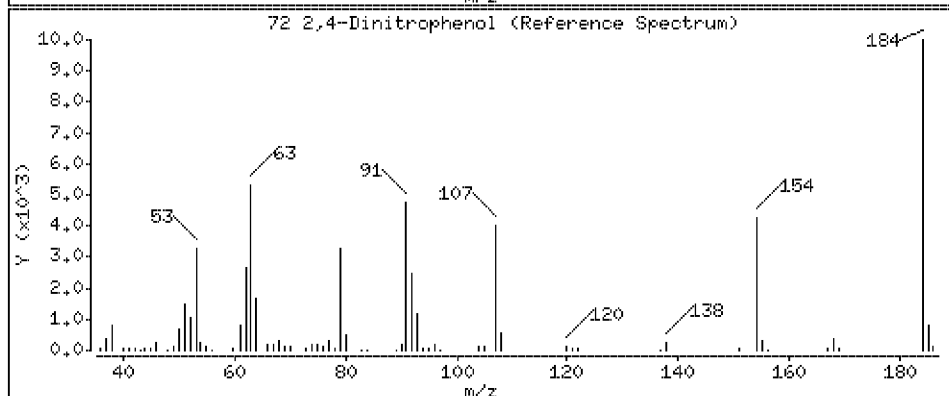
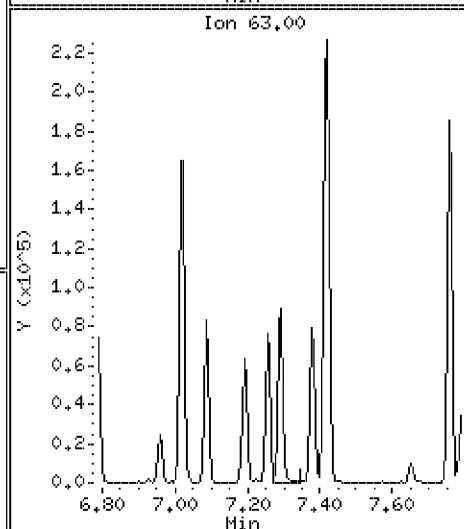
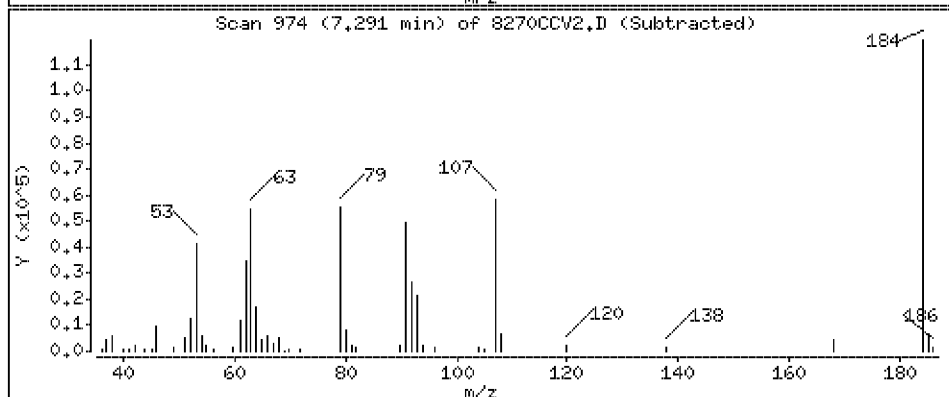
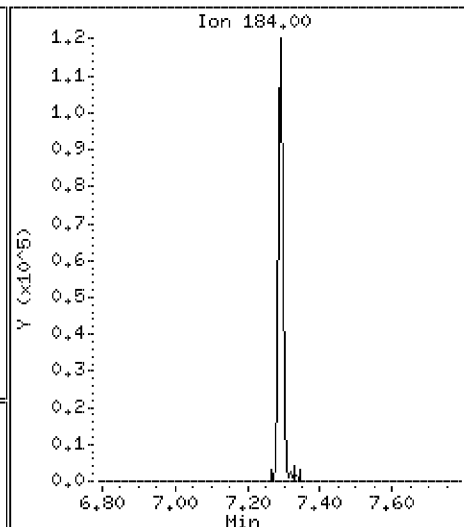
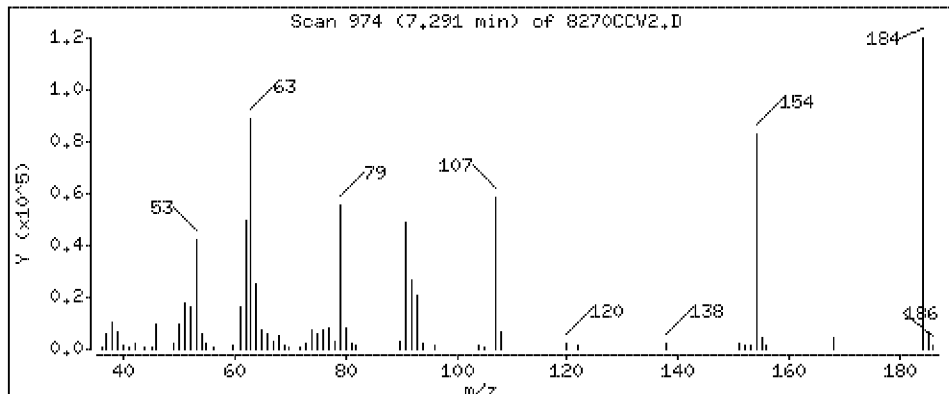
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

72 2,4-Dinitrophenol

Concentration: 40.8 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

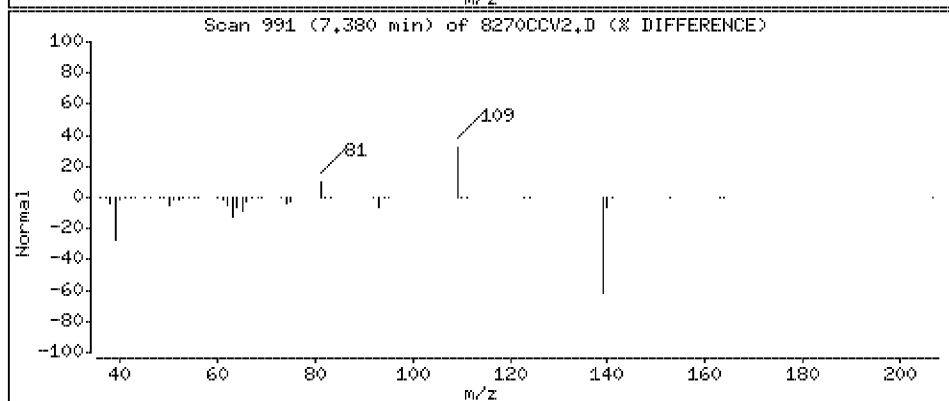
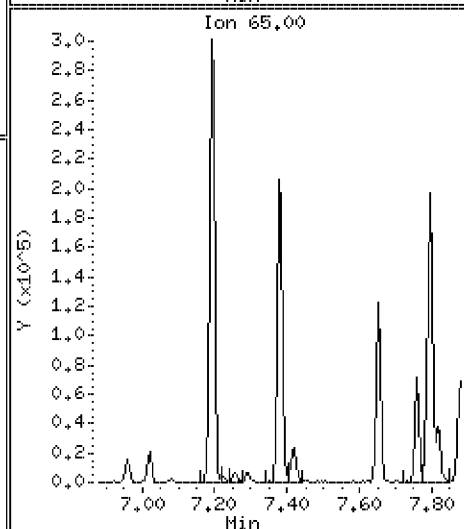
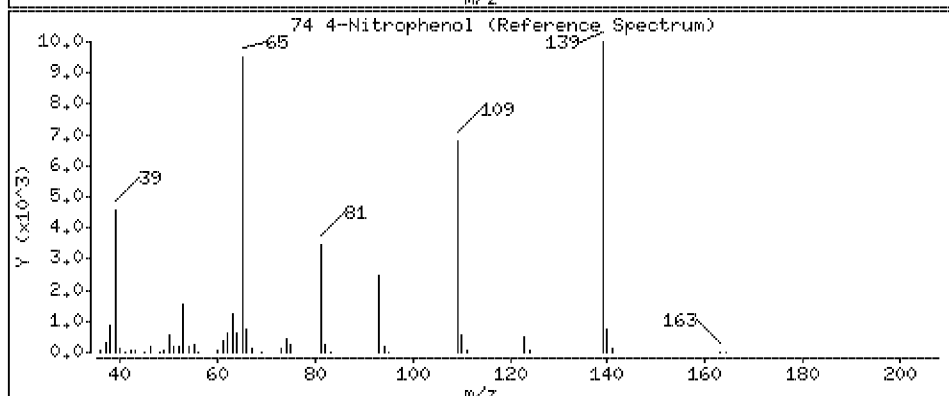
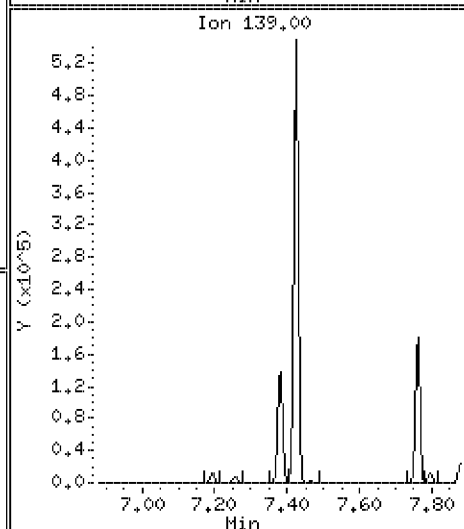
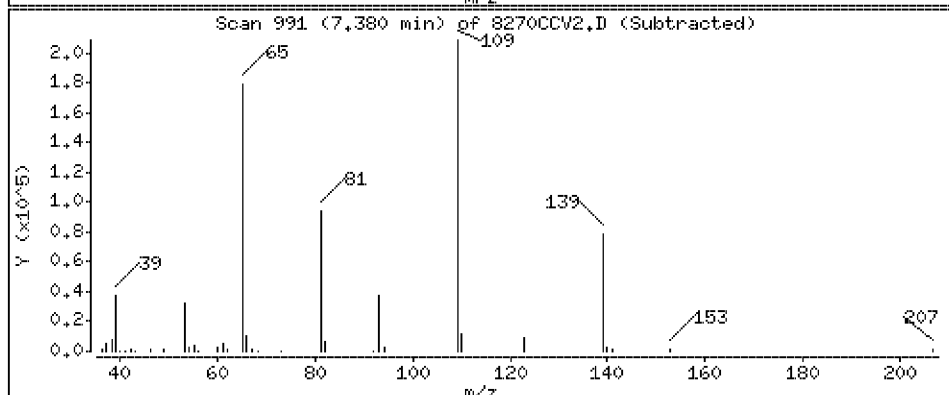
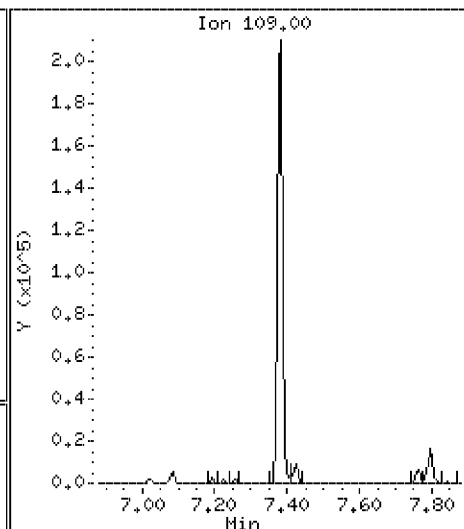
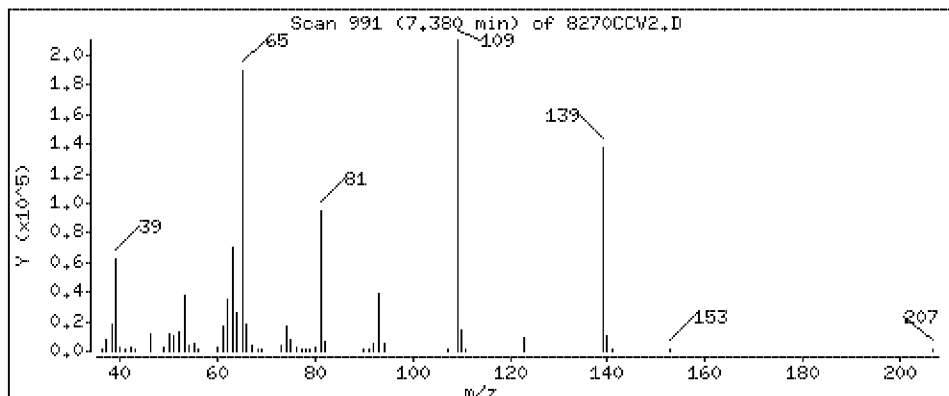
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

74 4-Nitrophenol

Concentration: 51.0 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

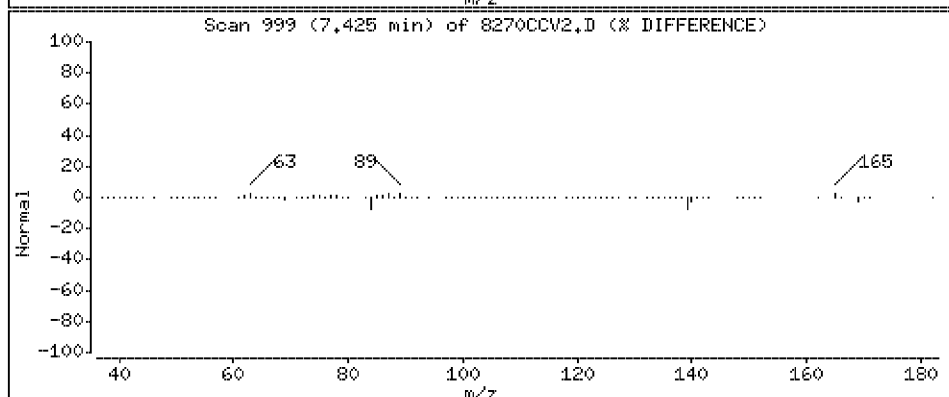
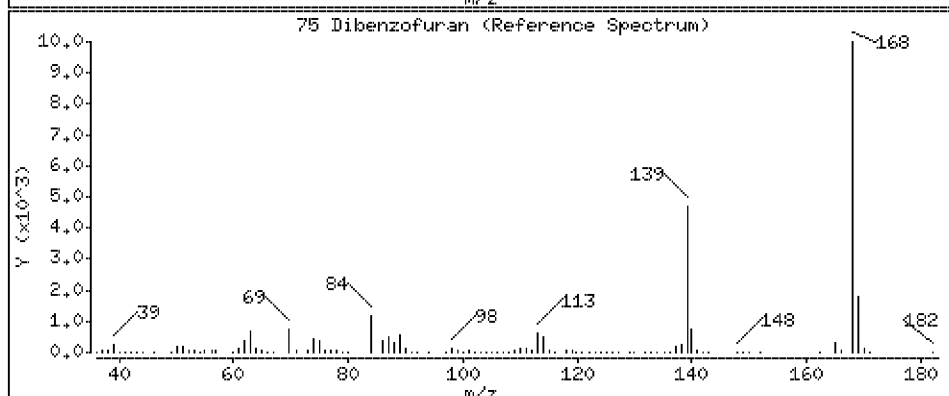
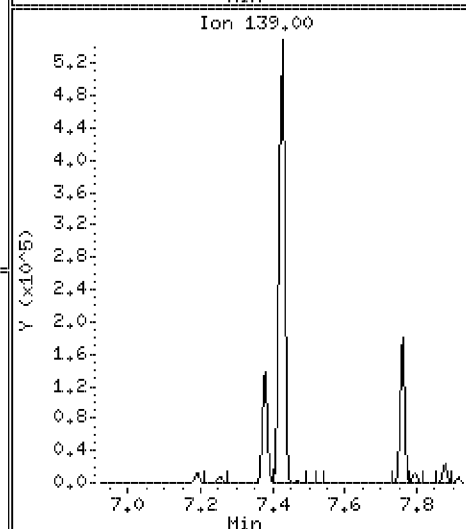
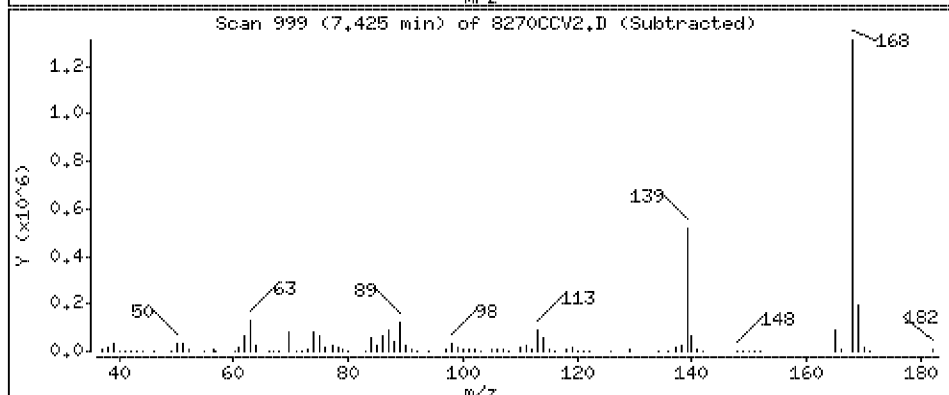
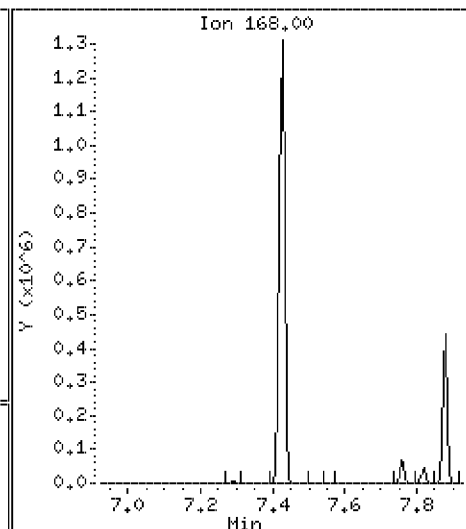
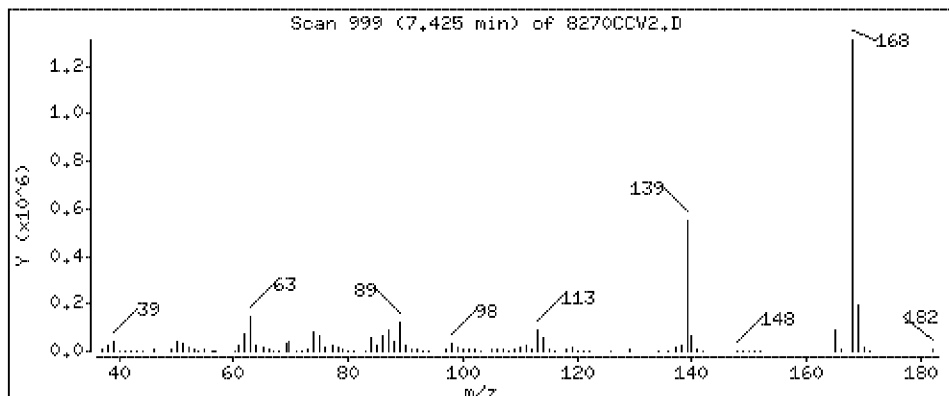
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

75 Dibenzofuran

Concentration: 47.8 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

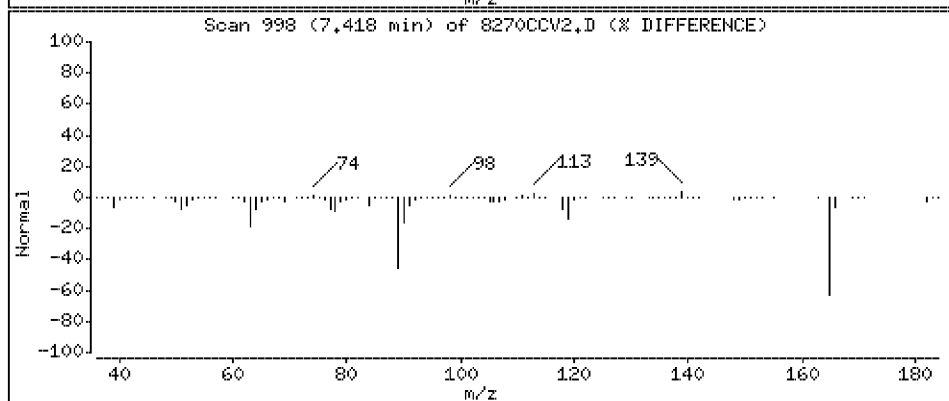
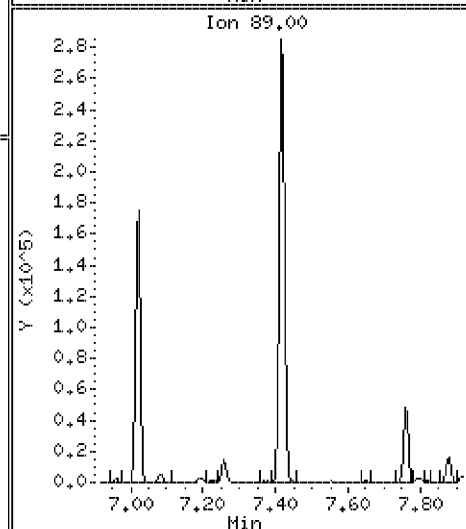
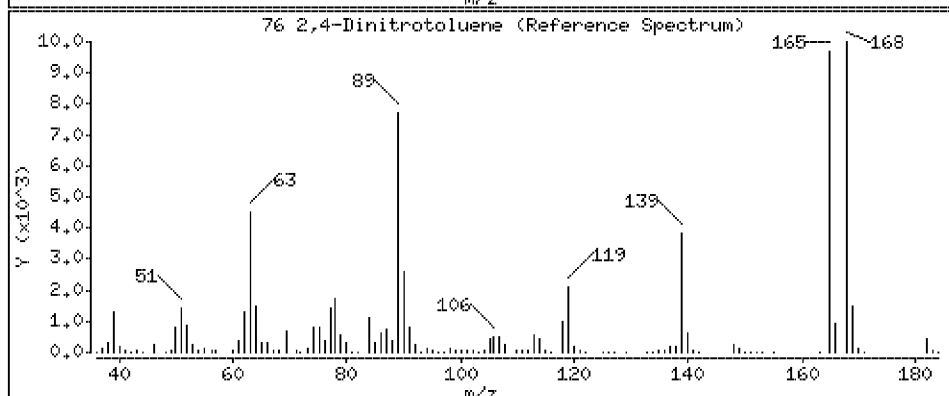
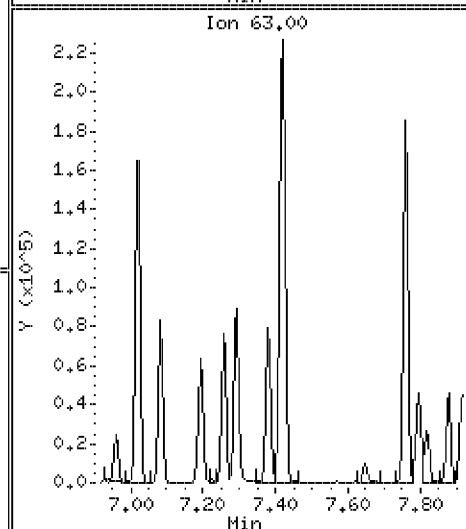
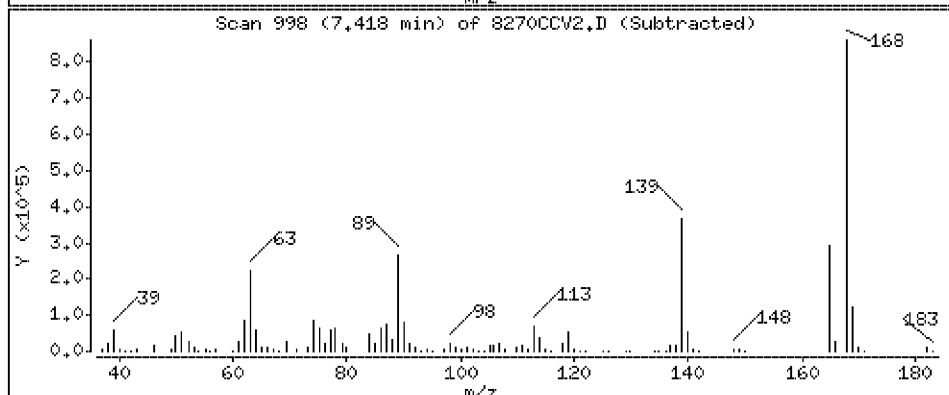
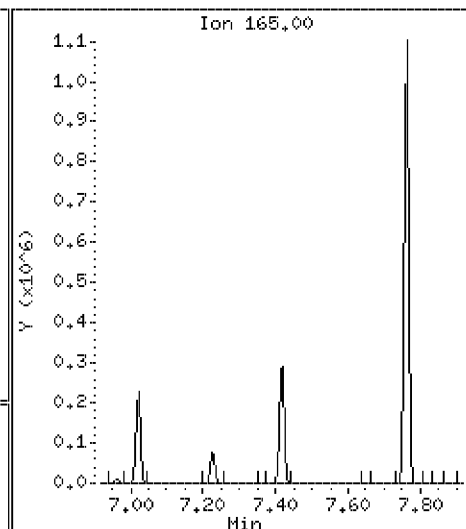
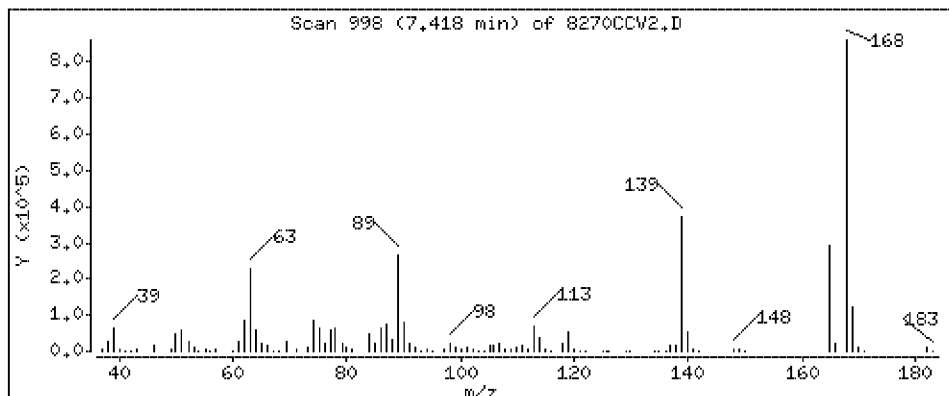
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

76 2,4-Dinitrotoluene

Concentration: 46.4 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

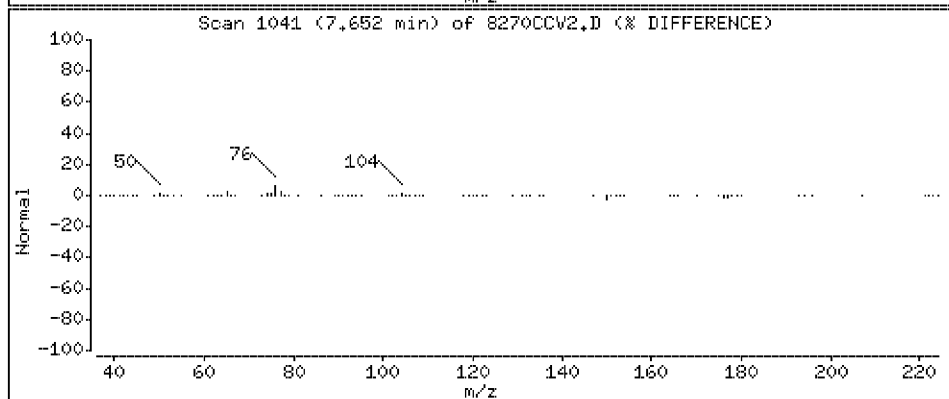
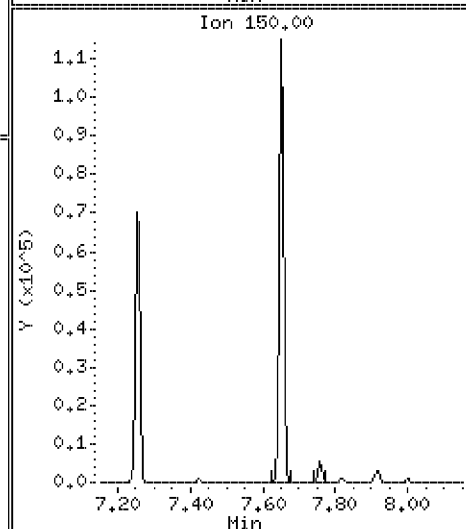
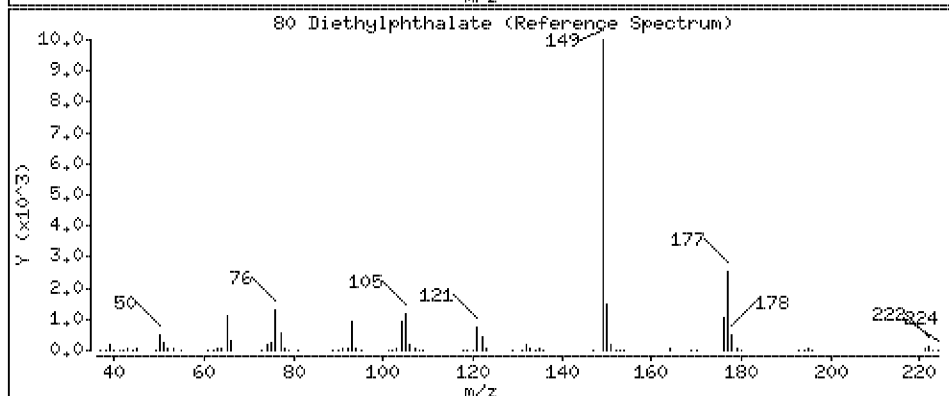
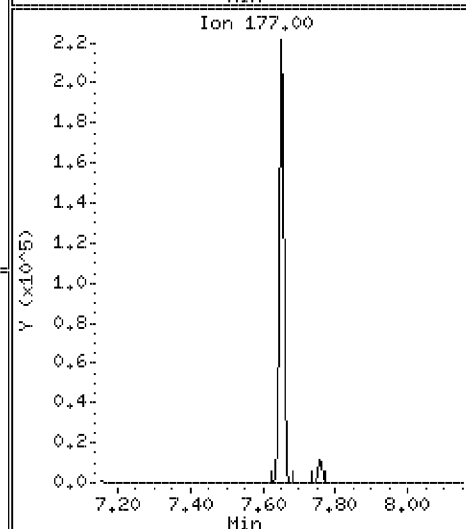
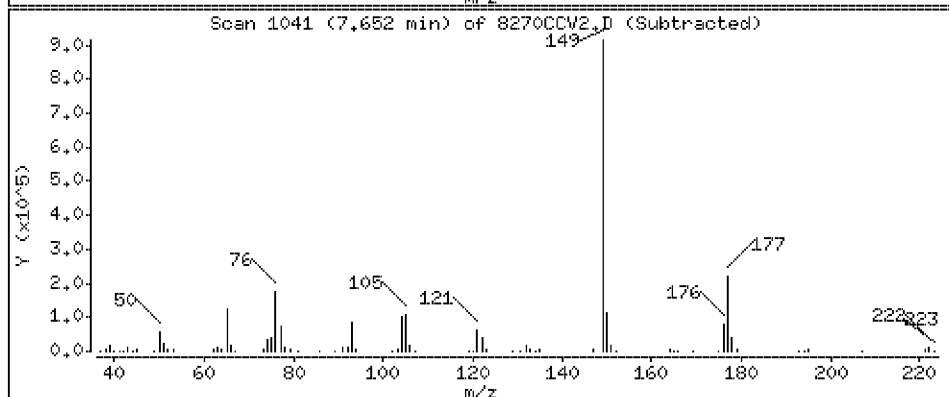
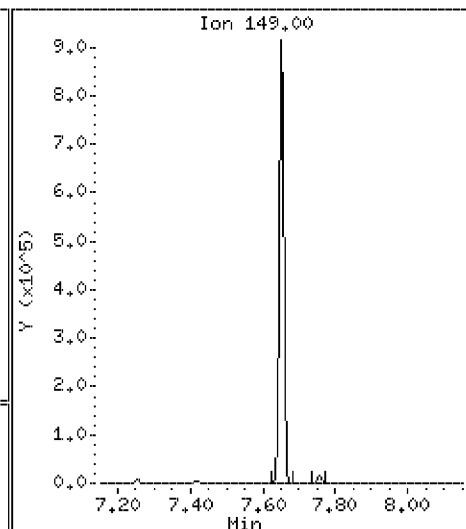
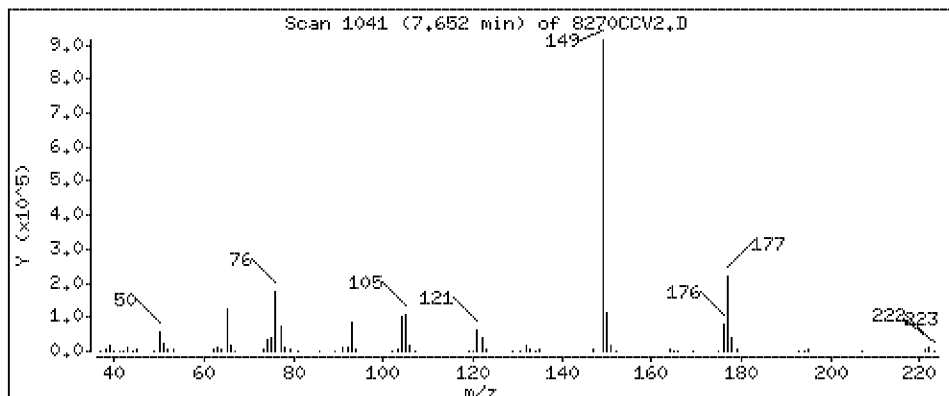
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

80 Diethylphthalate

Concentration: 47.5 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

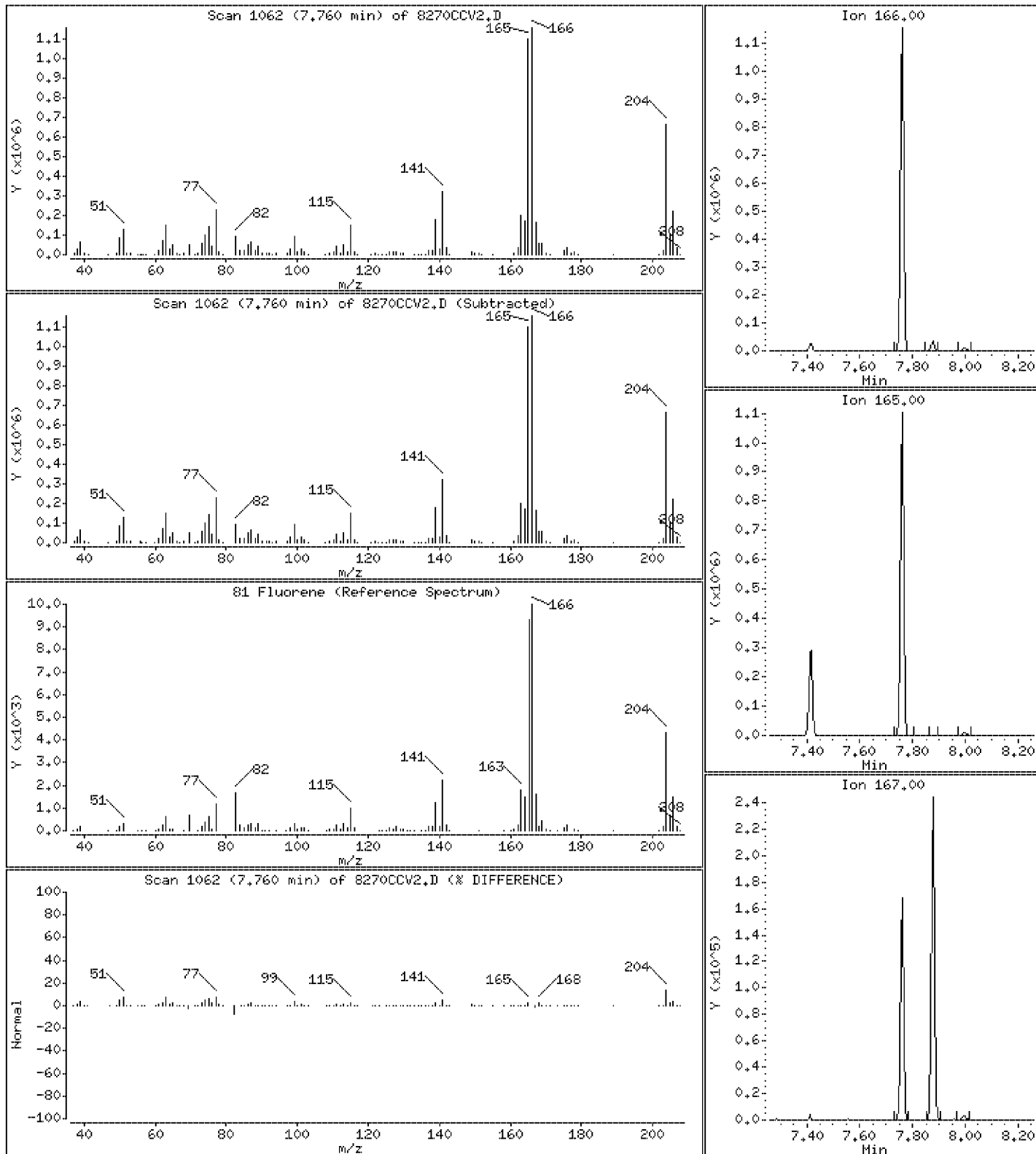
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

81 Fluorene

Concentration: 49.4 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

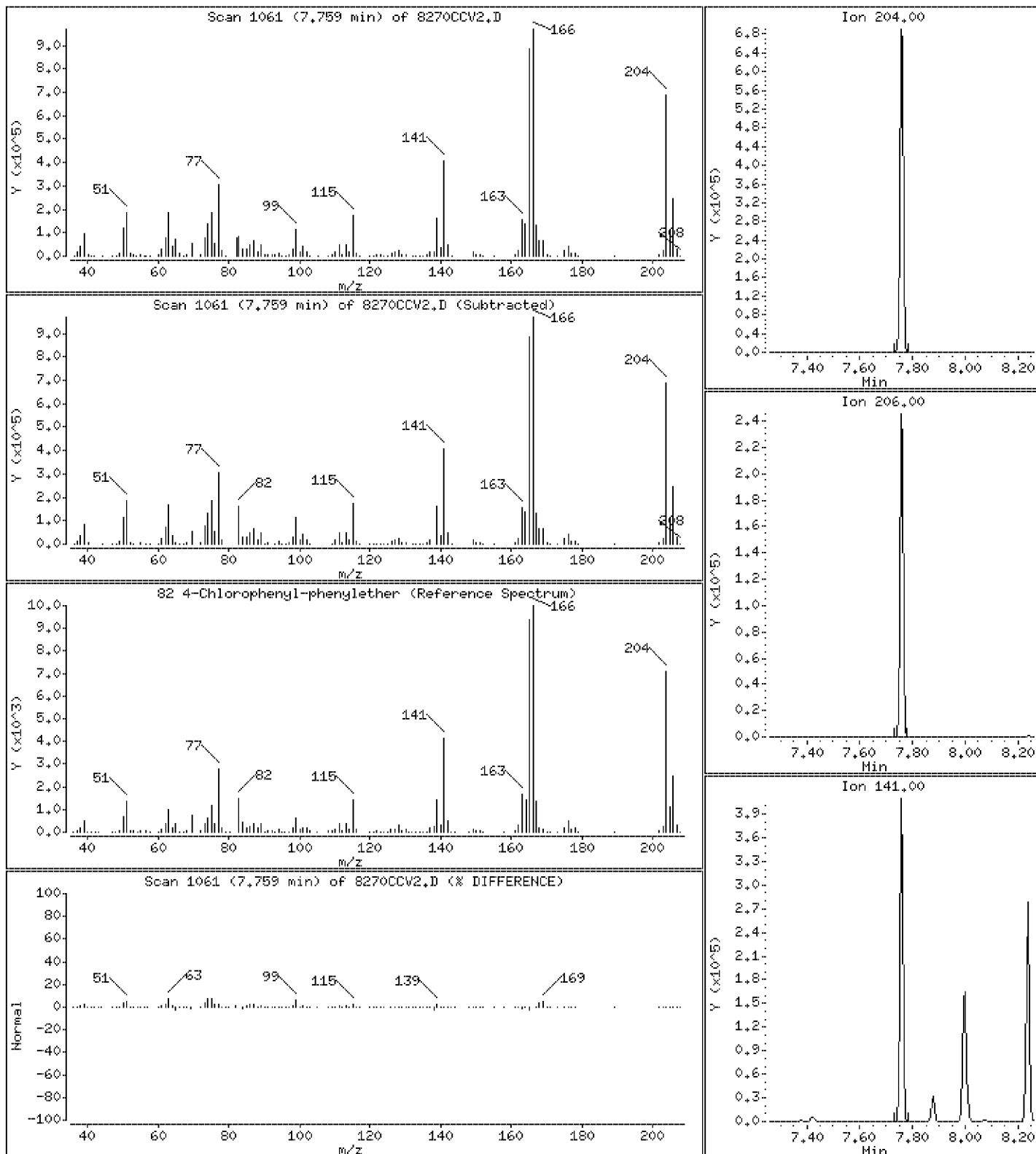
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

82 4-Chlorophenyl-phenylether

Concentration: 49.9 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

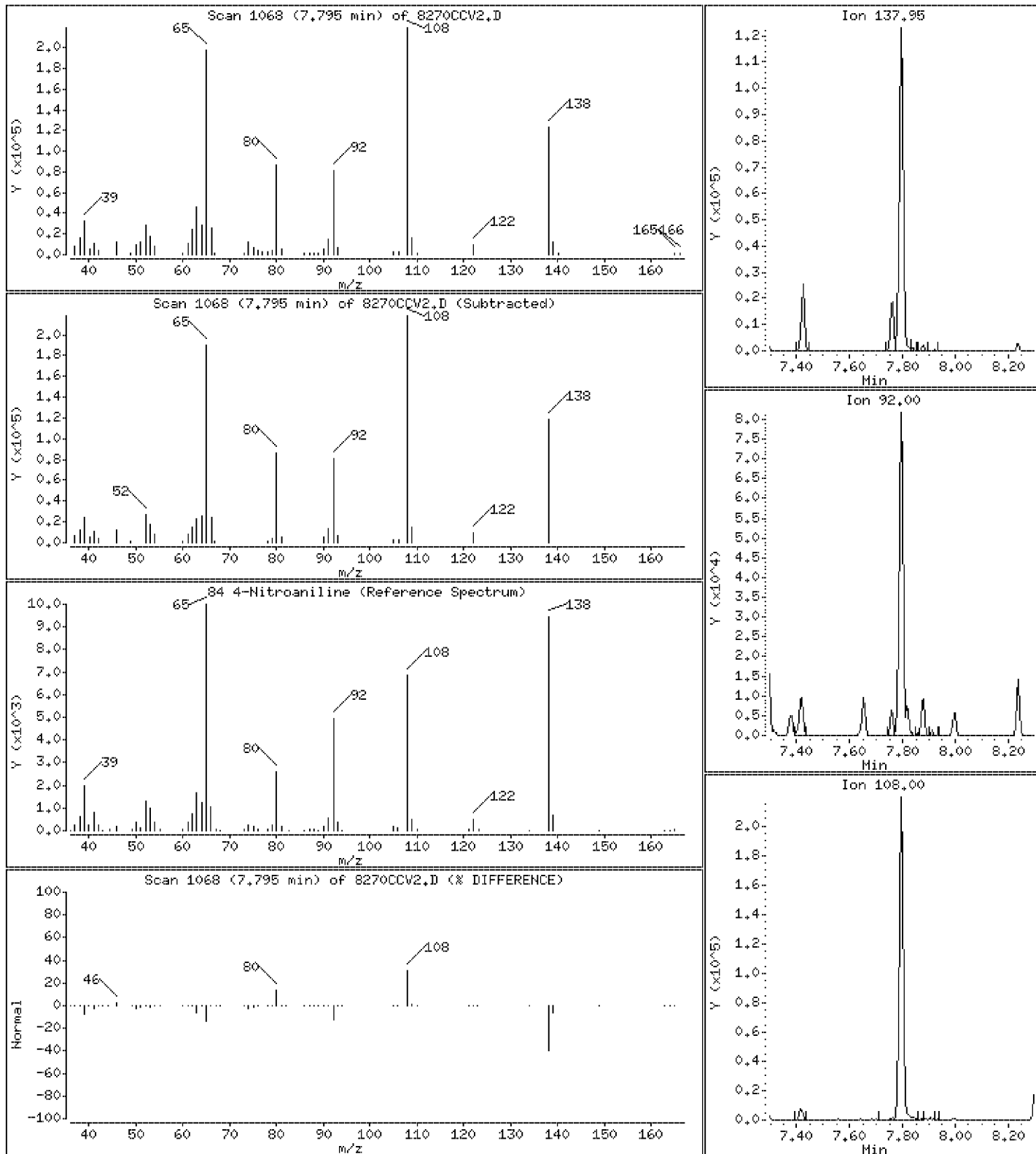
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

84 4-Nitroaniline

Concentration: 40.3 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

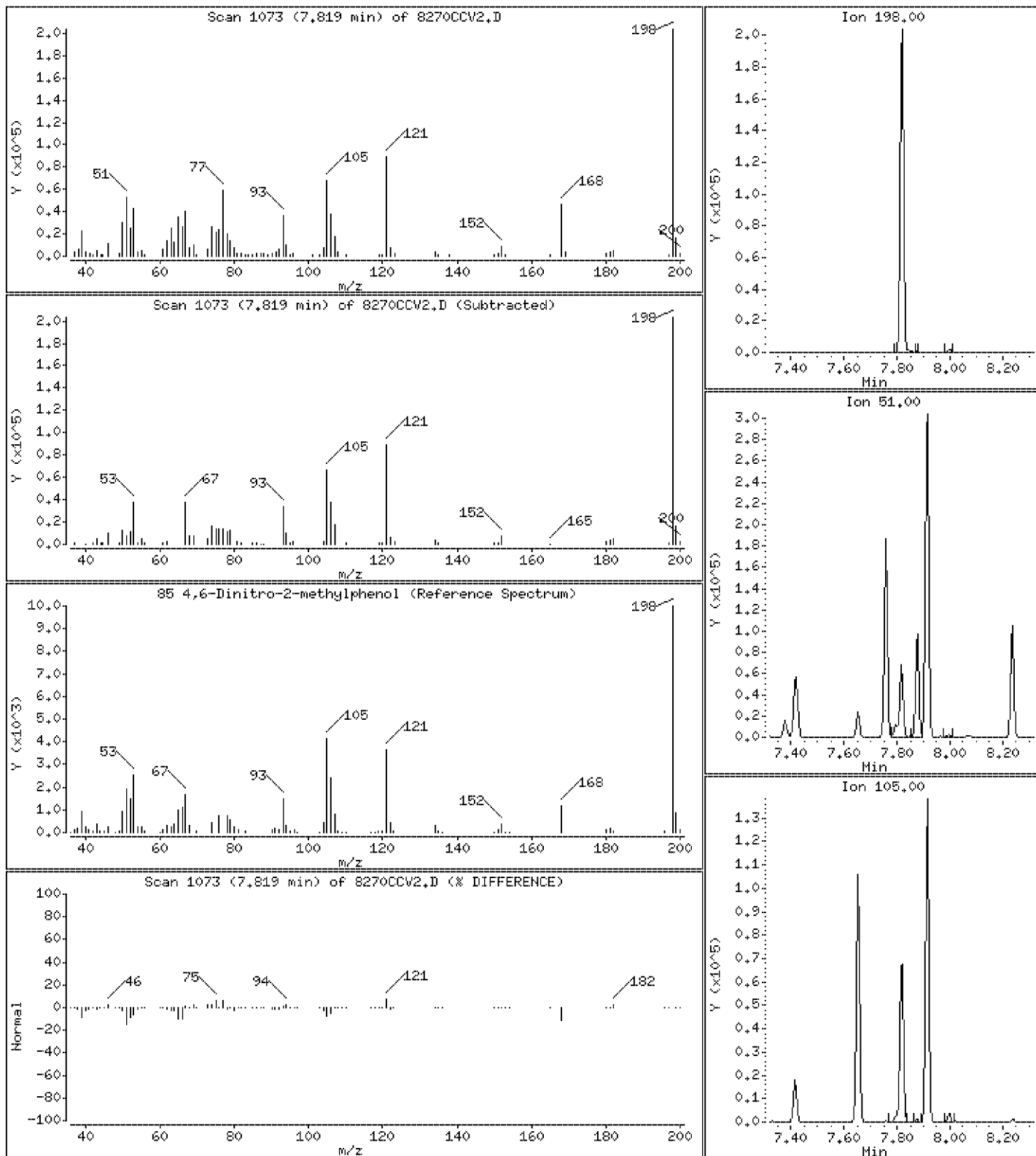
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

85 4,6-Dinitro-2-methylphenol

Concentration: 41.8 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

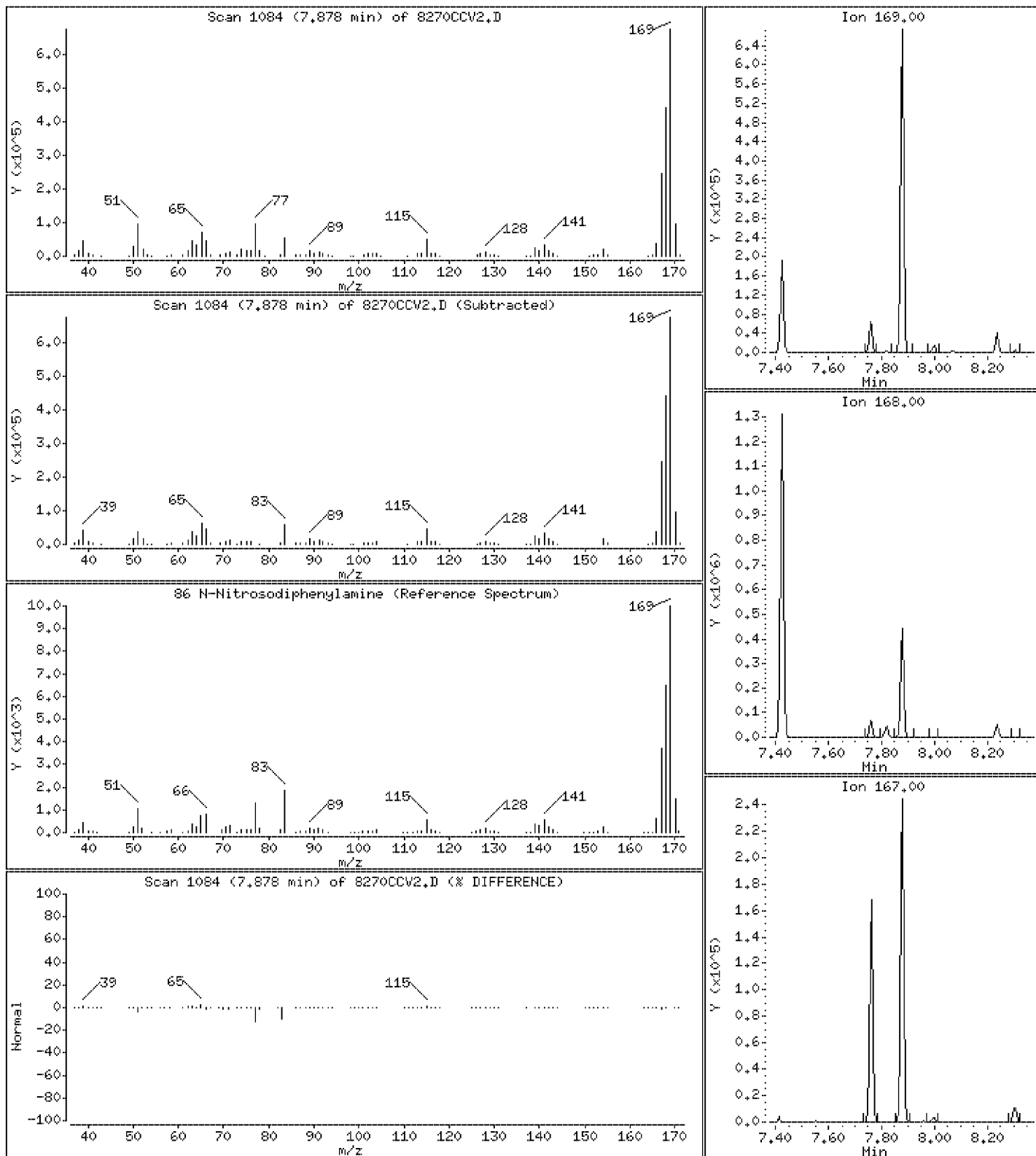
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

86 N-Nitrosodiphenylamine

Concentration: 43.7 ug/l



Date: 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

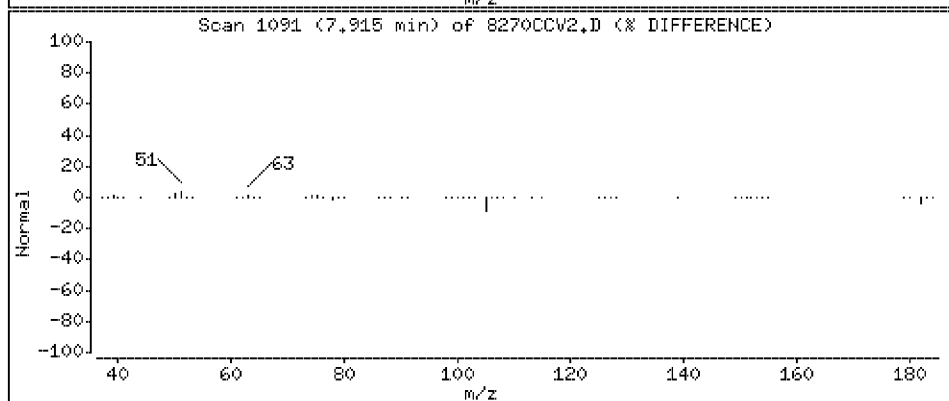
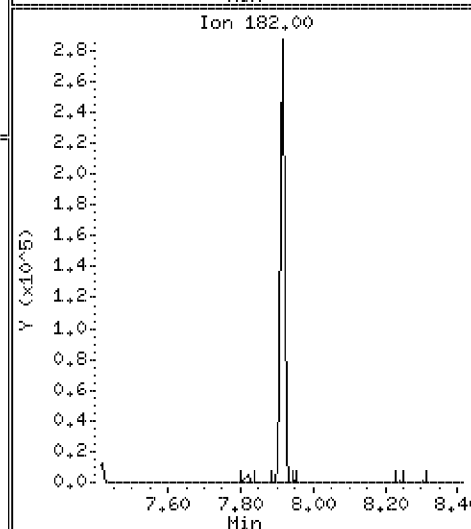
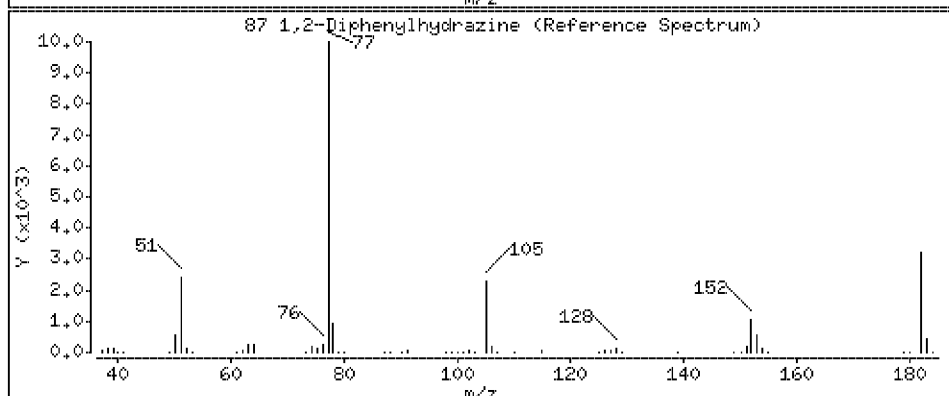
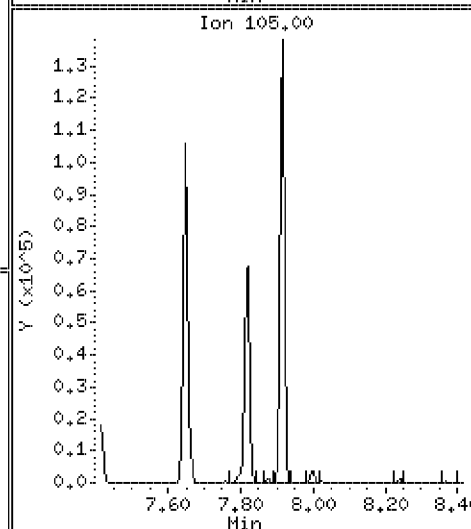
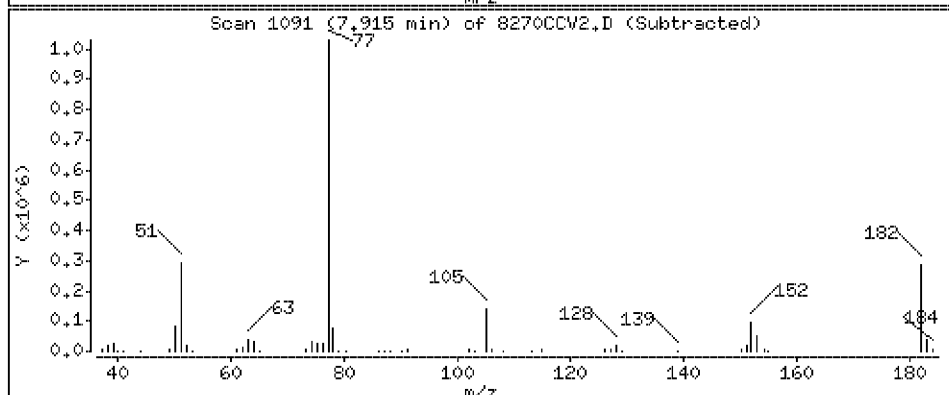
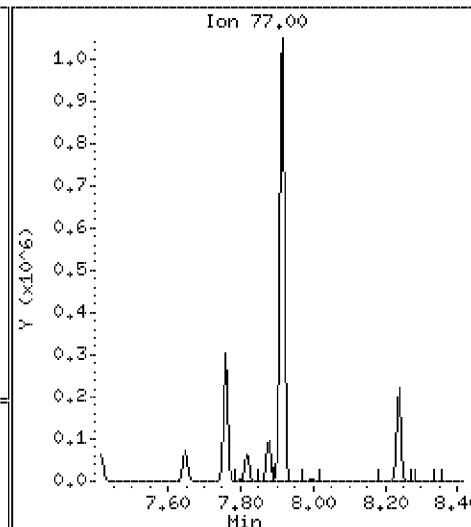
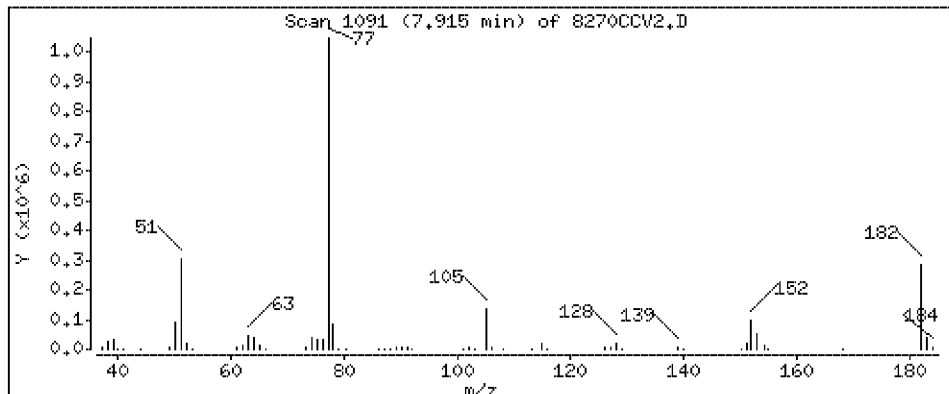
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

87 1,2-Diphenylhydrazine

Concentration: 49.3 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

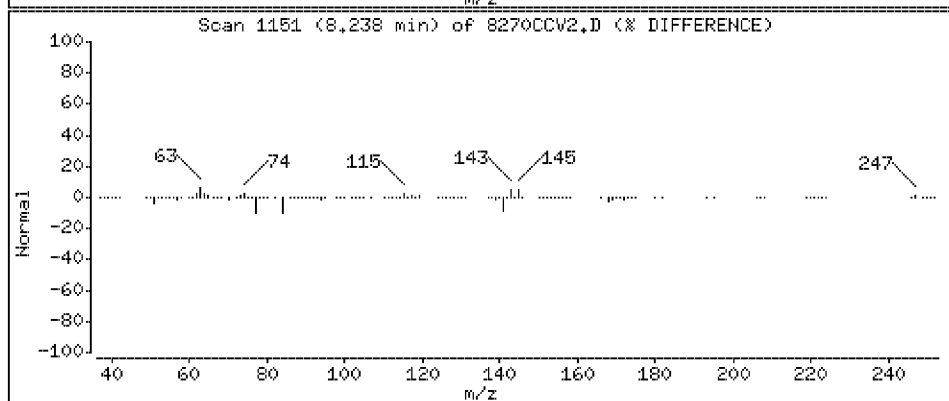
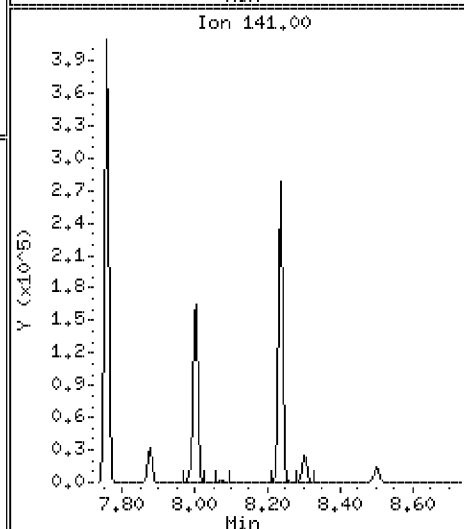
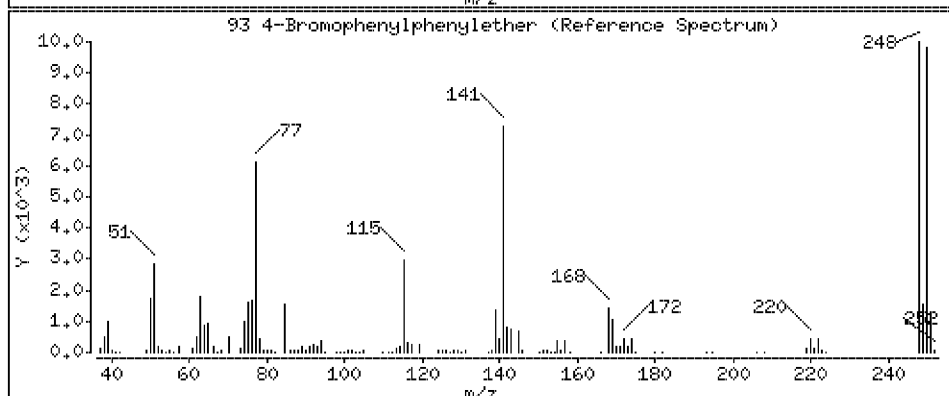
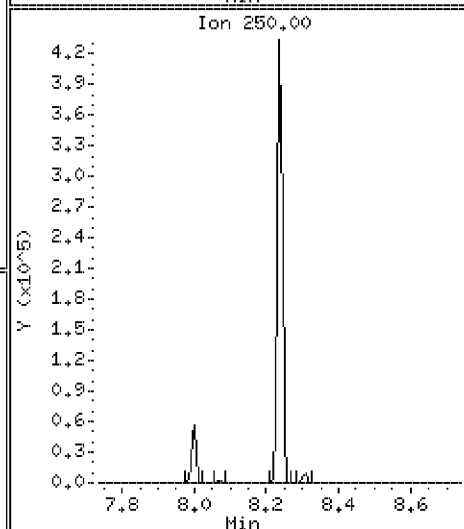
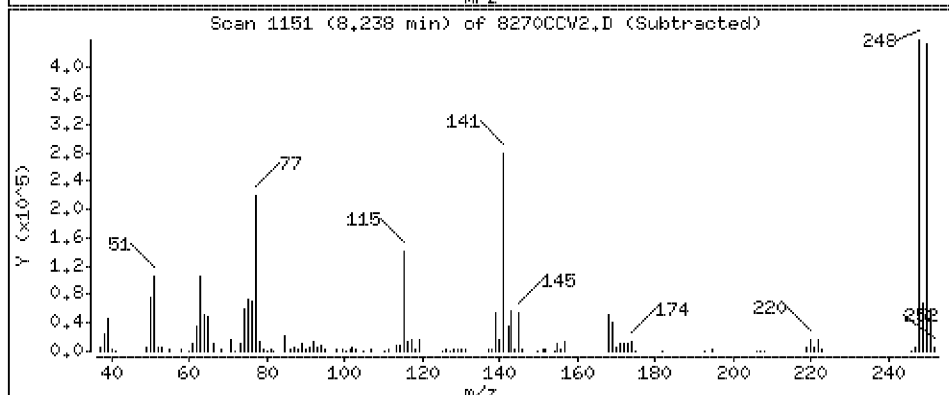
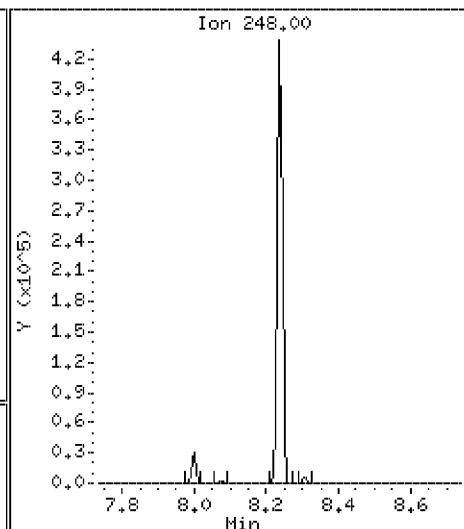
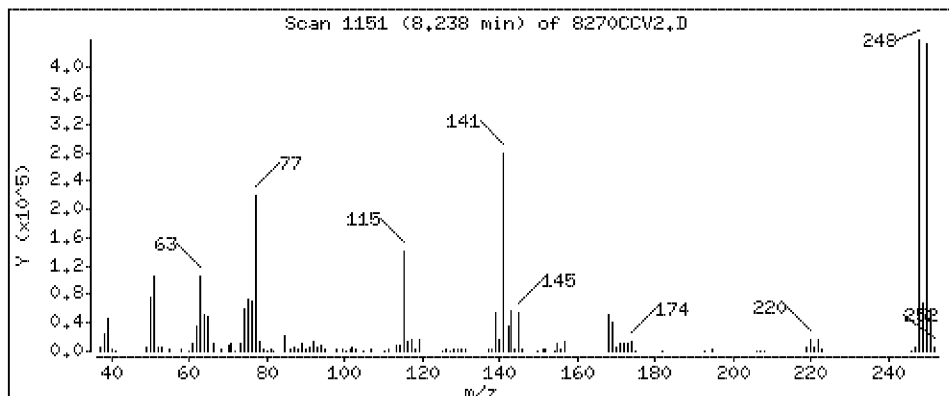
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

93 4-Bromophenylphenylether

Concentration: 45.6 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

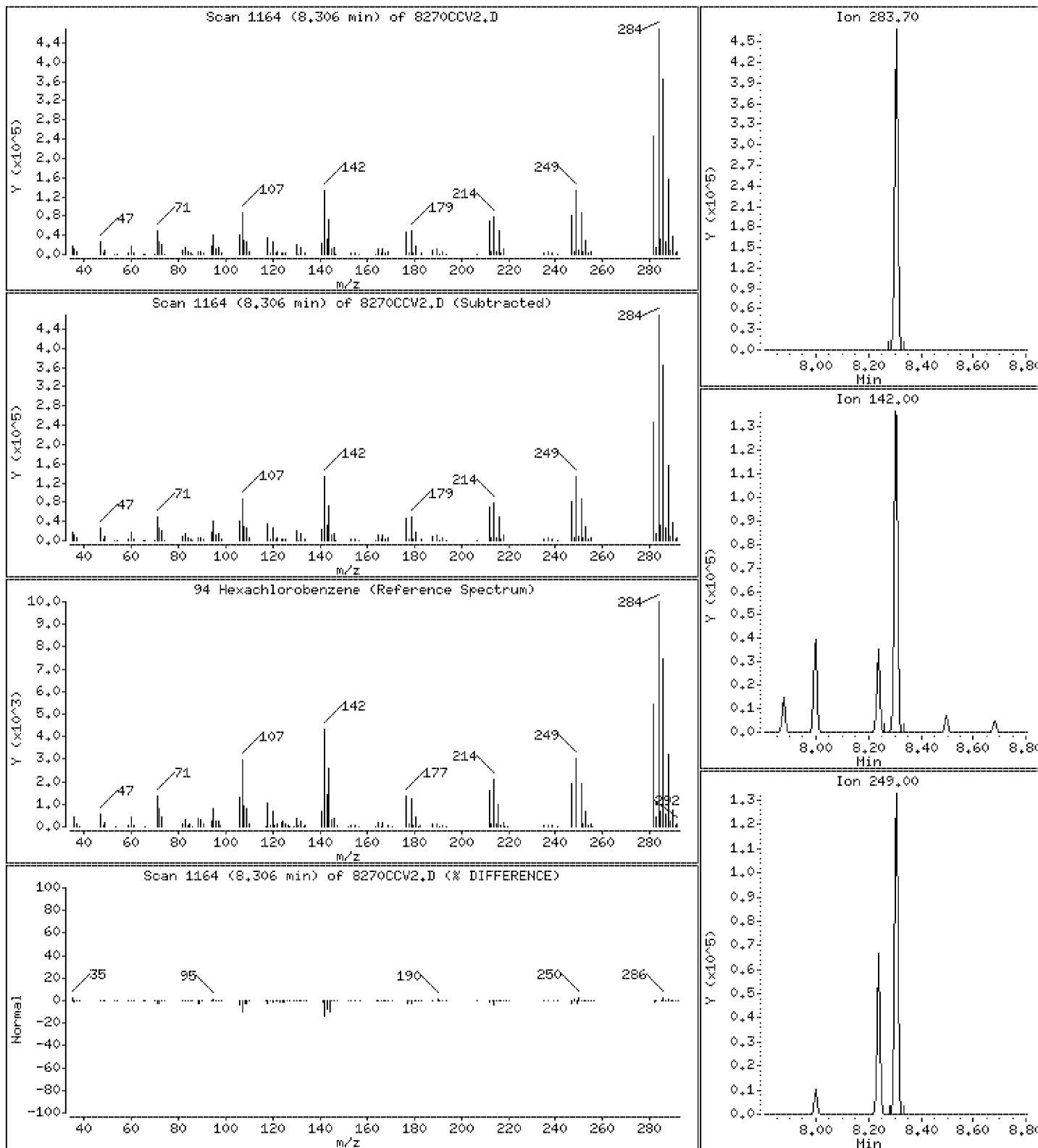
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

94 Hexachlorobenzene

Concentration: 45.5 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

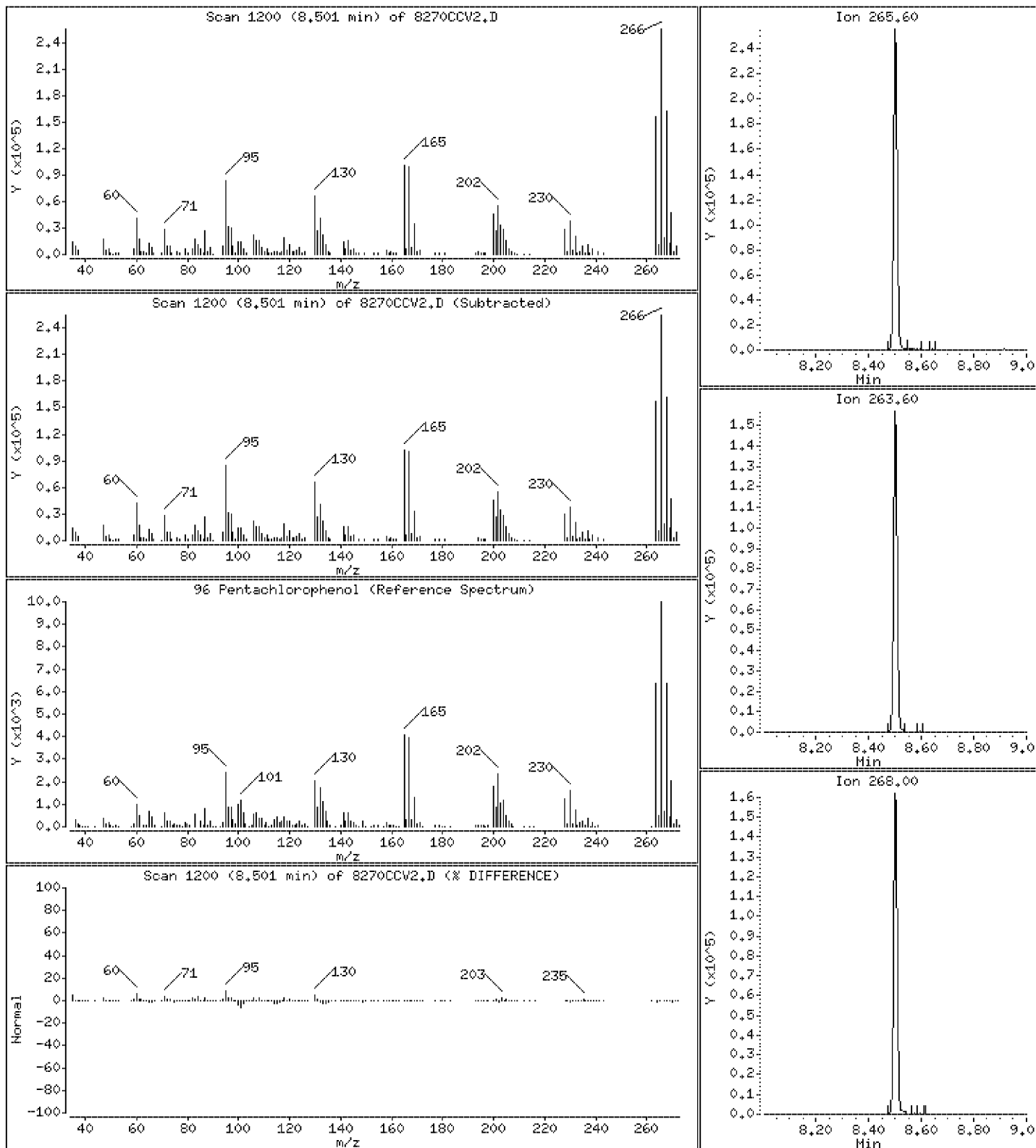
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

96 Pentachlorophenol

Concentration: 47.6 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

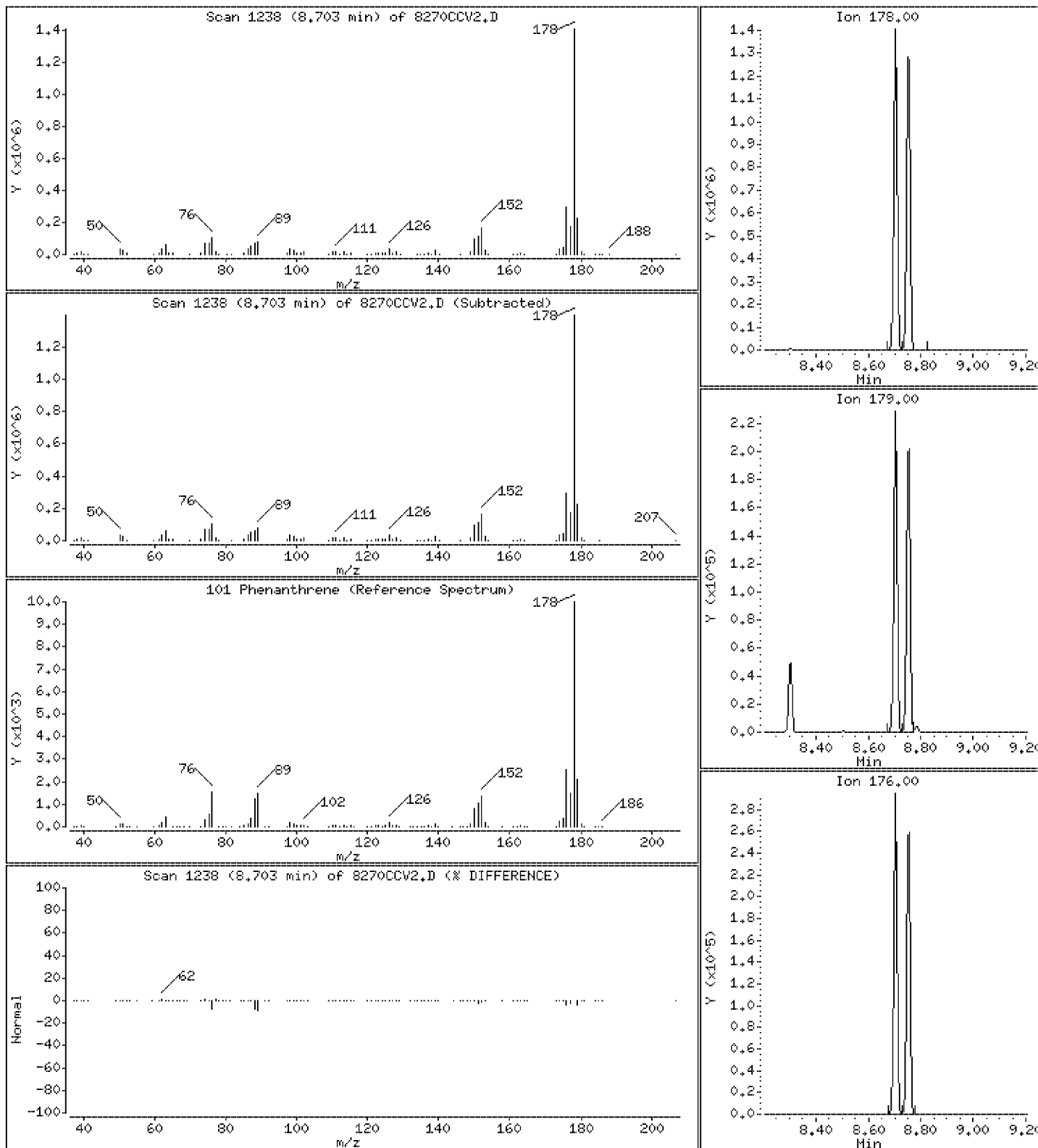
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

101 Phenanthrene

Concentration: 46.3 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

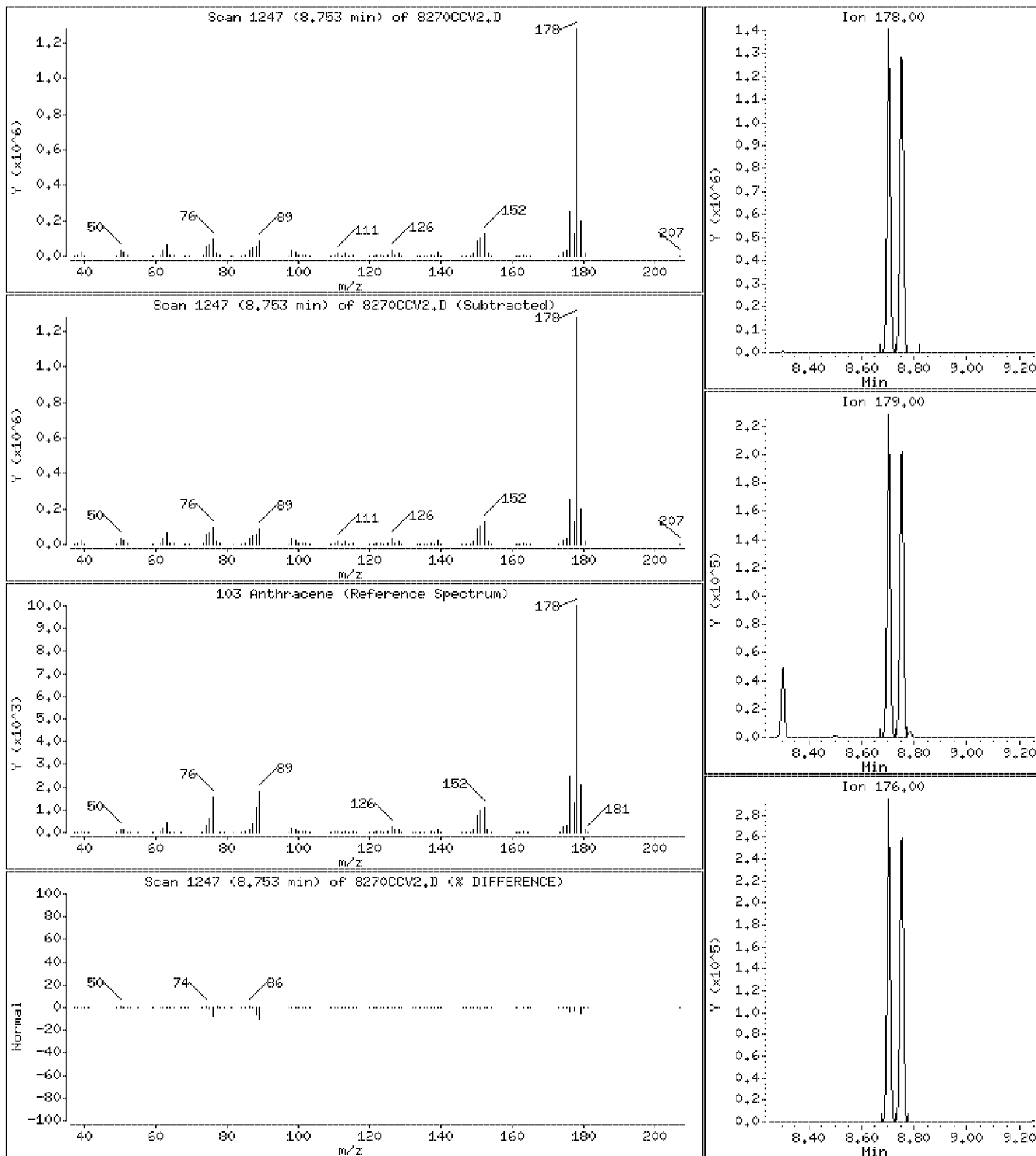
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

103 Anthracene

Concentration: 46.9 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

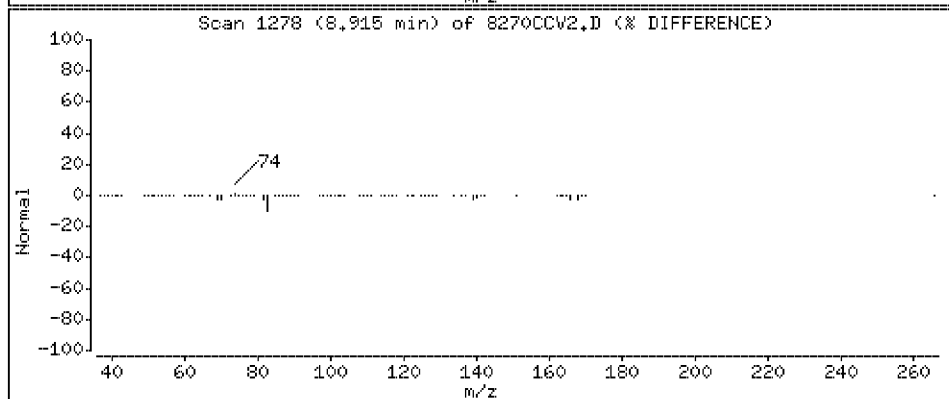
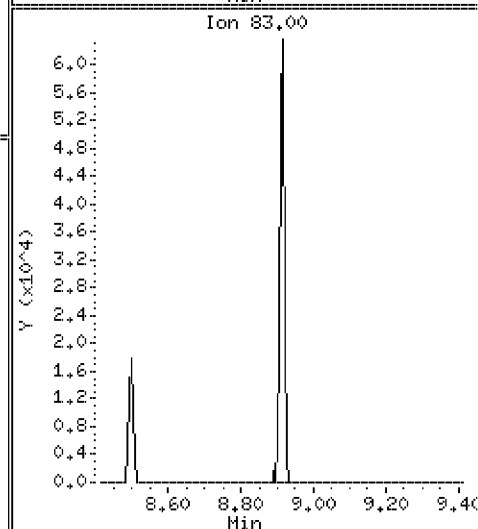
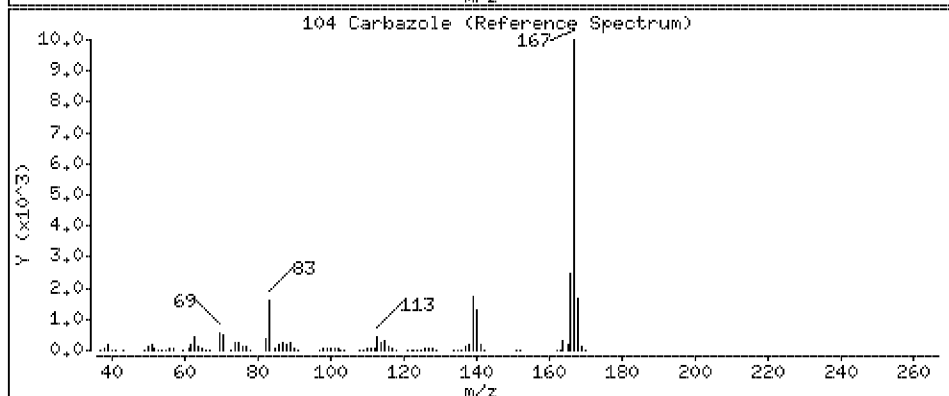
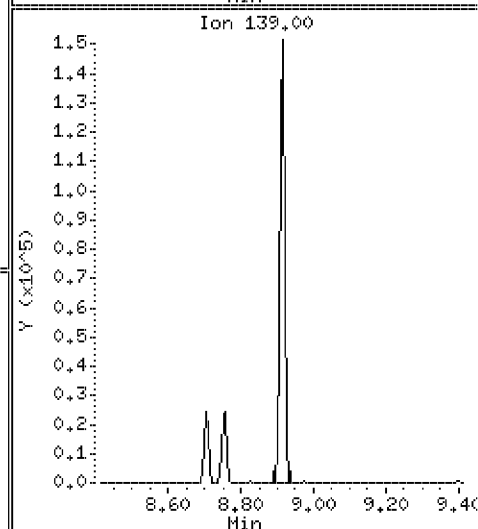
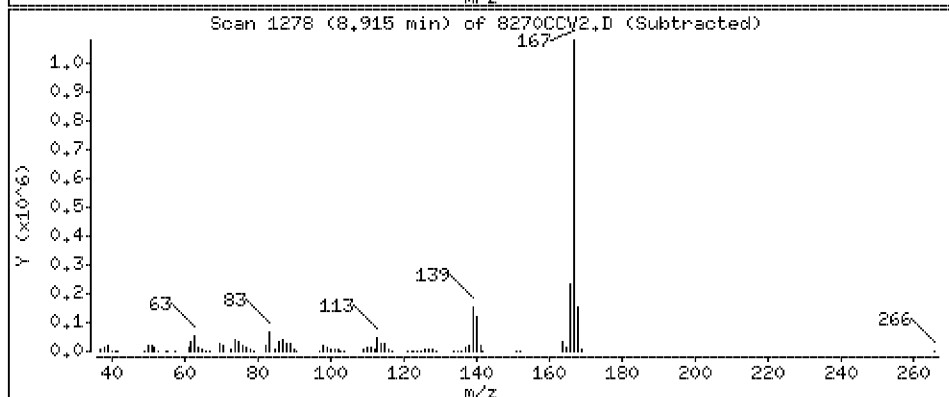
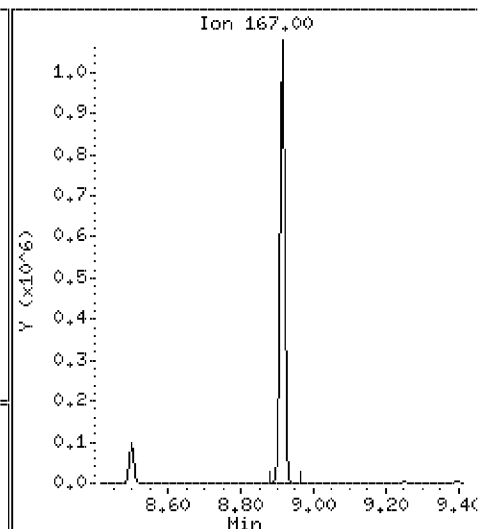
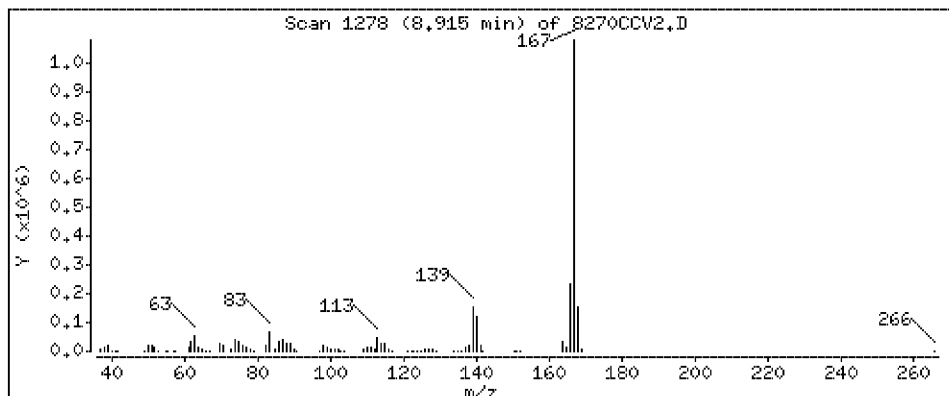
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

104 Carbazole

Concentration: 44.4 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

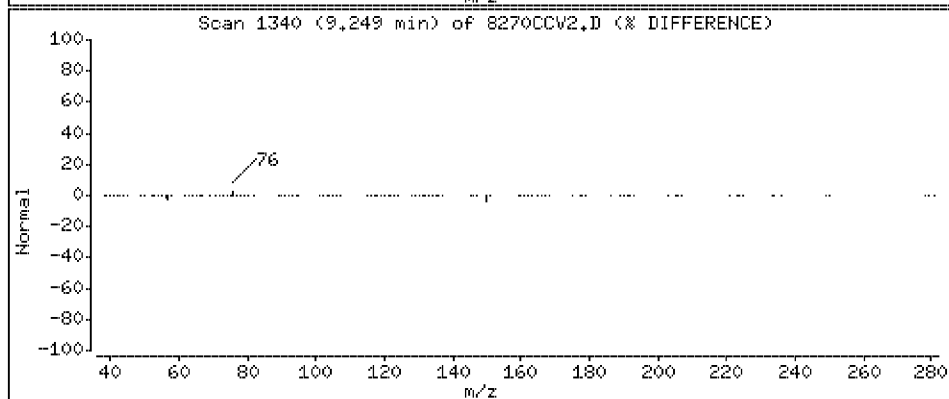
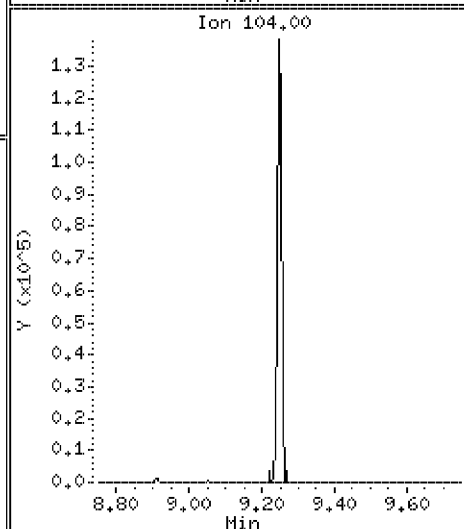
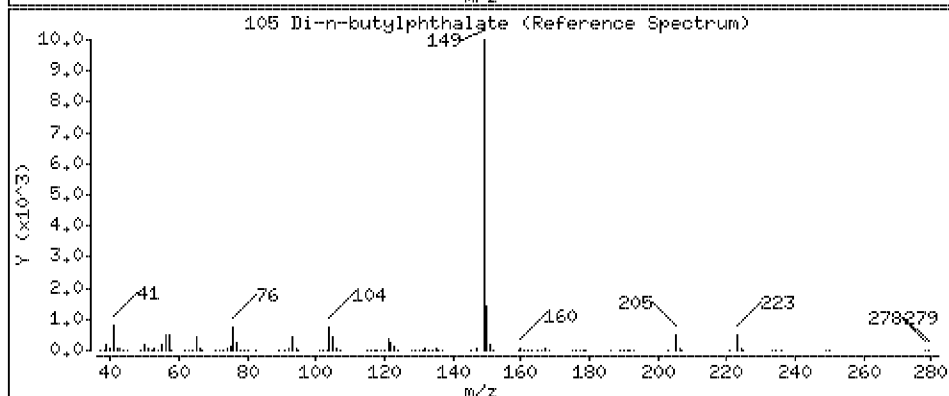
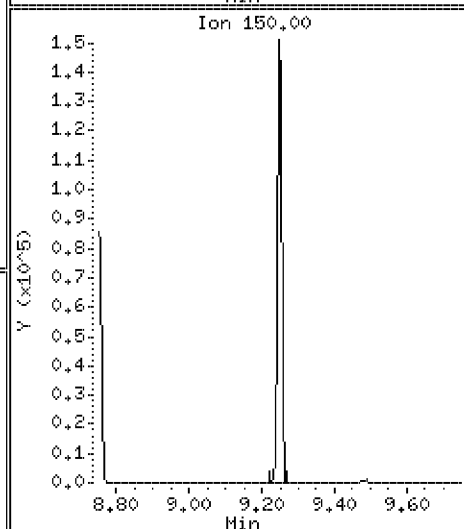
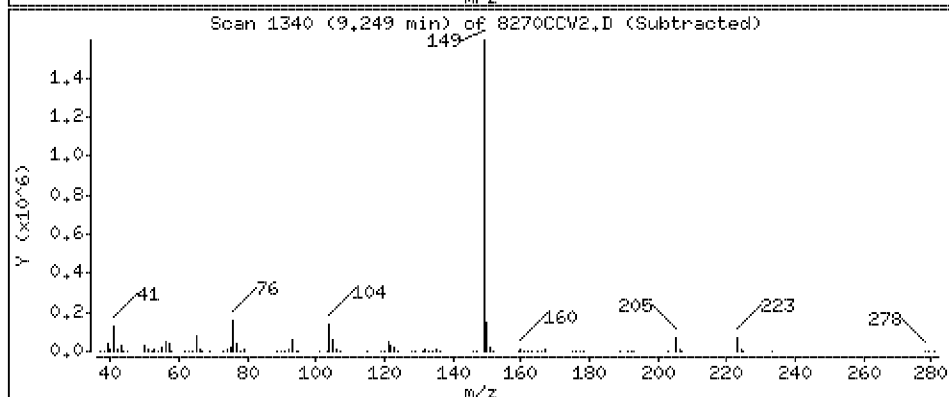
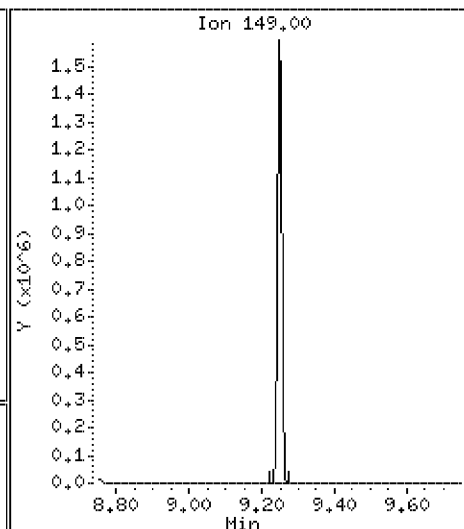
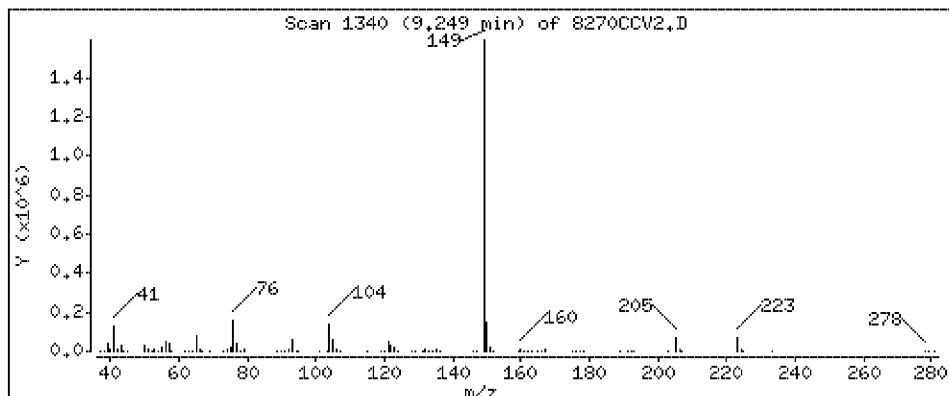
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

105 Di-n-butylphthalate

Concentration: 48.2 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

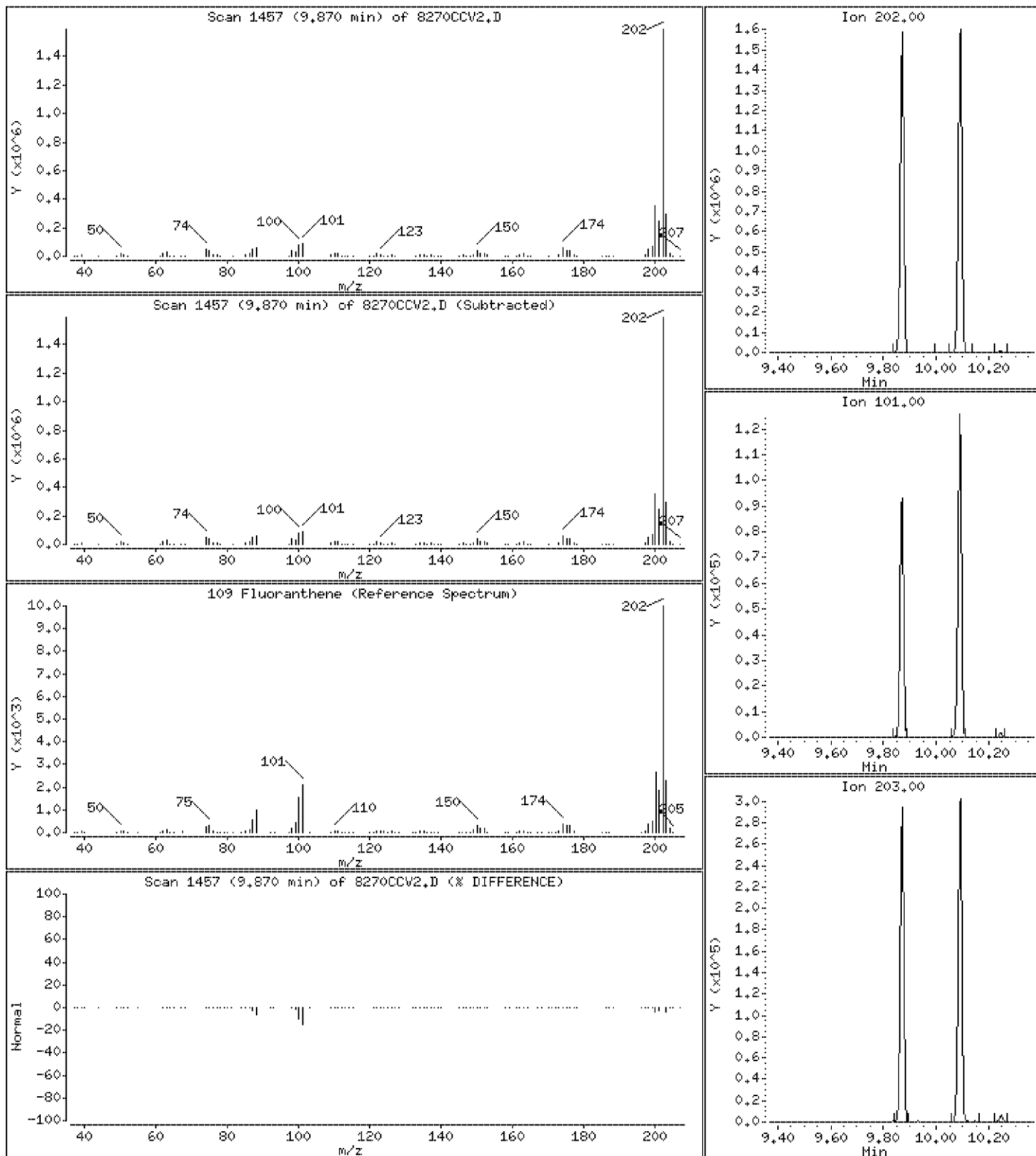
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

109 Fluoranthene

Concentration: 47.7 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

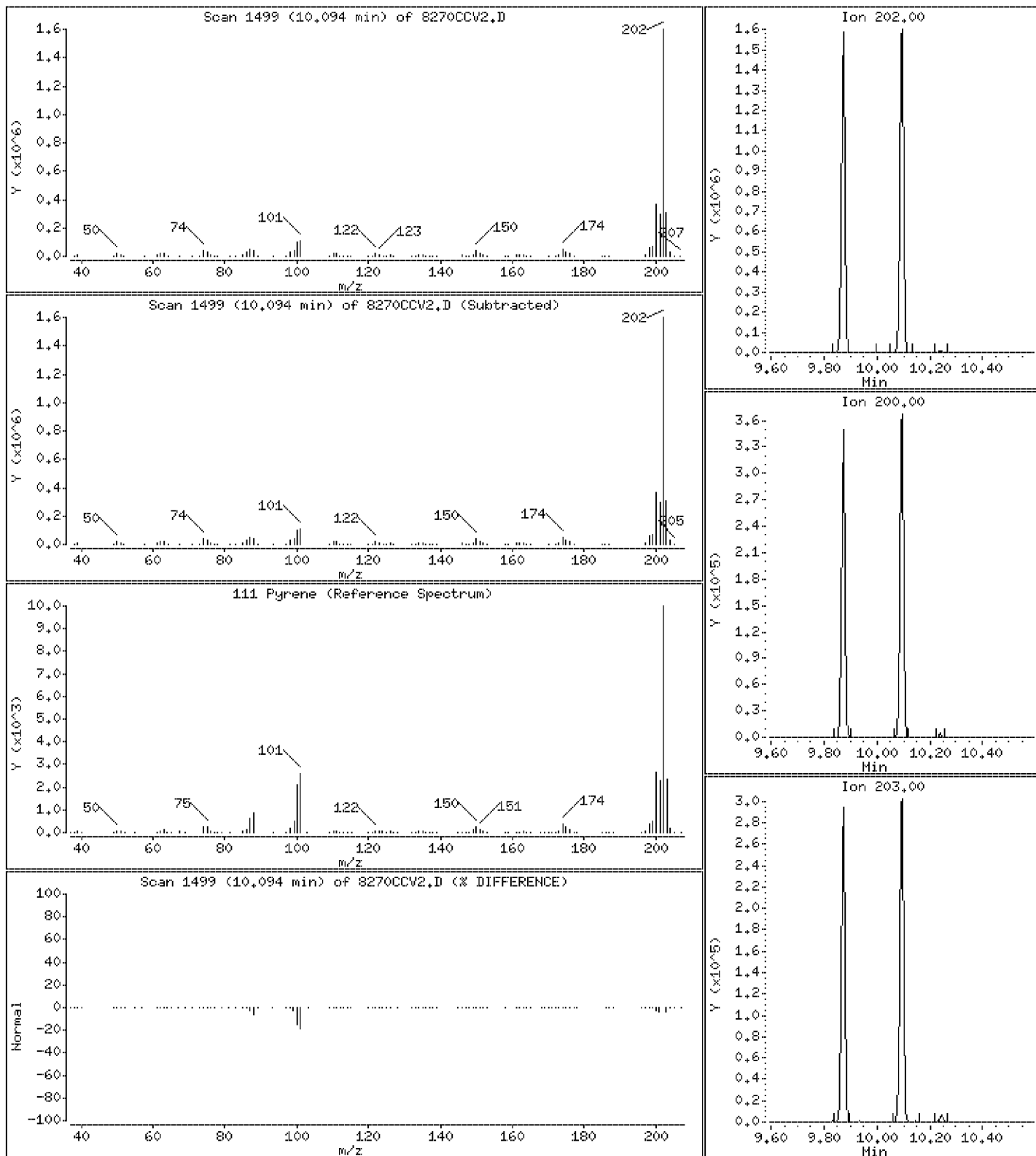
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

111 Pyrene

Concentration: 43.9 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

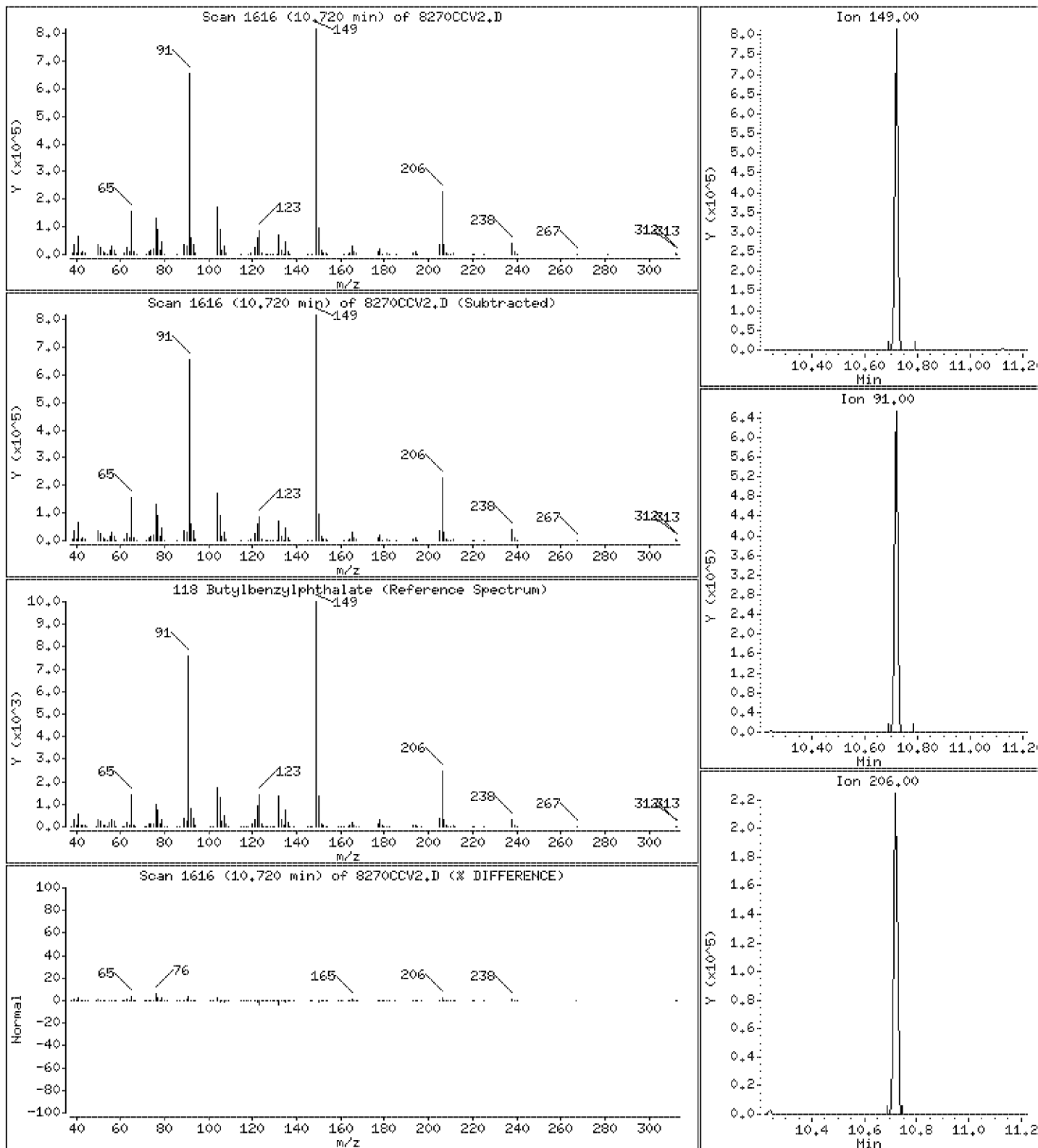
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

118 Butylbenzylphthalate

Concentration: 41.7 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

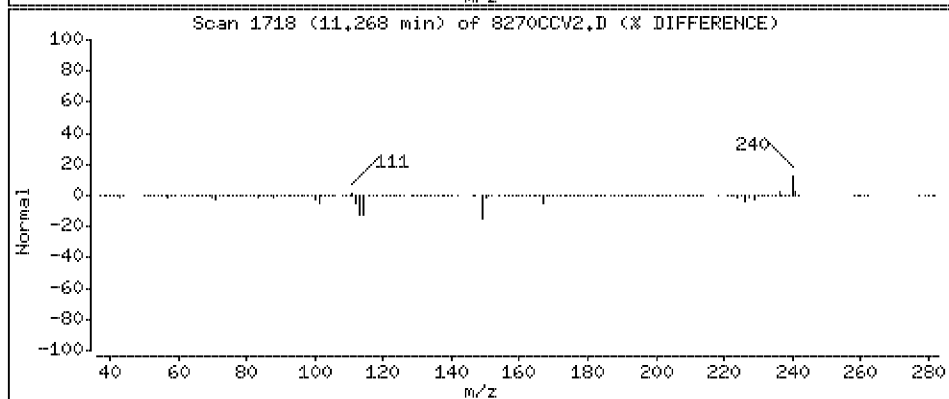
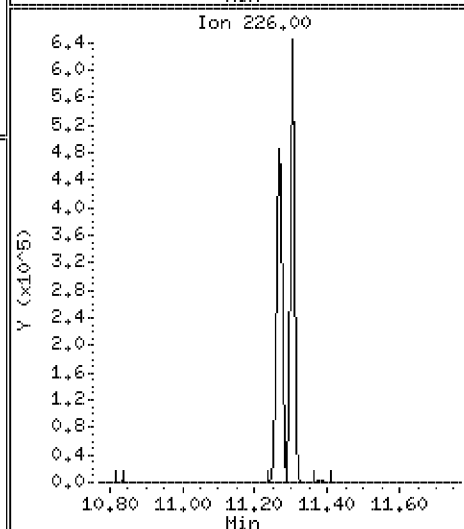
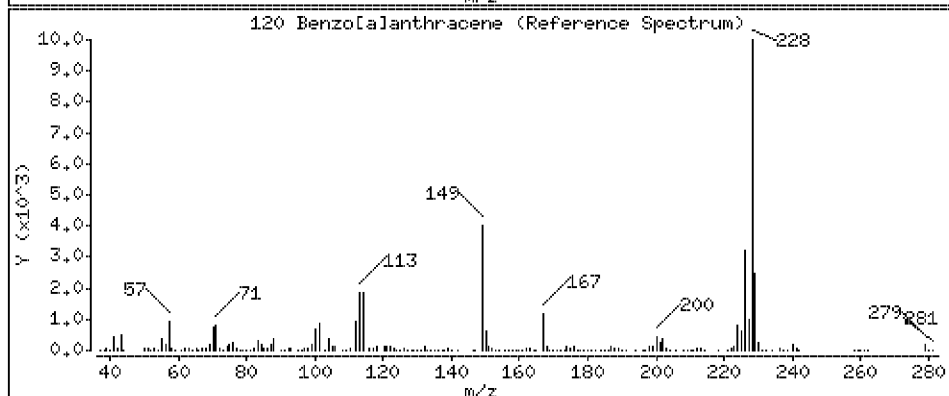
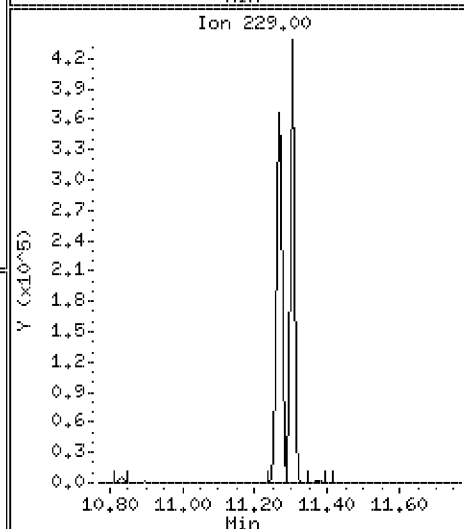
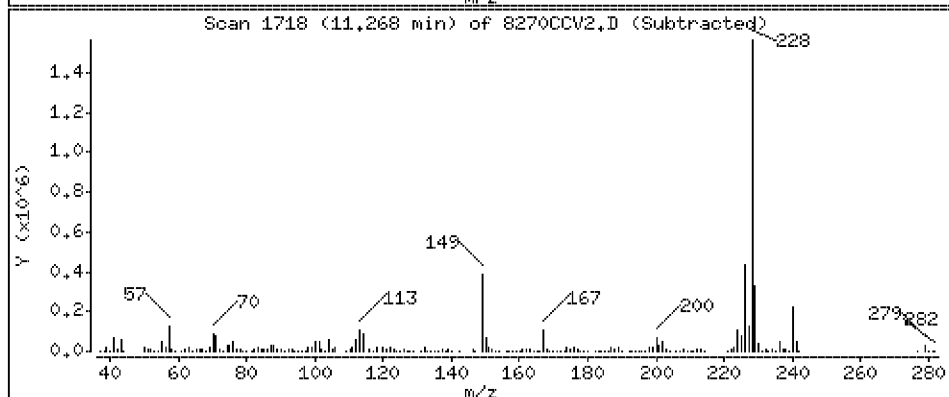
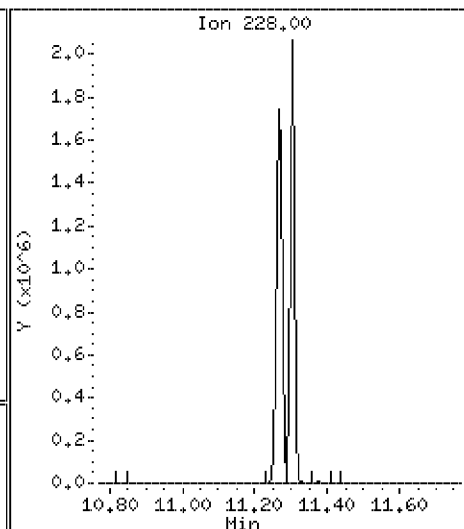
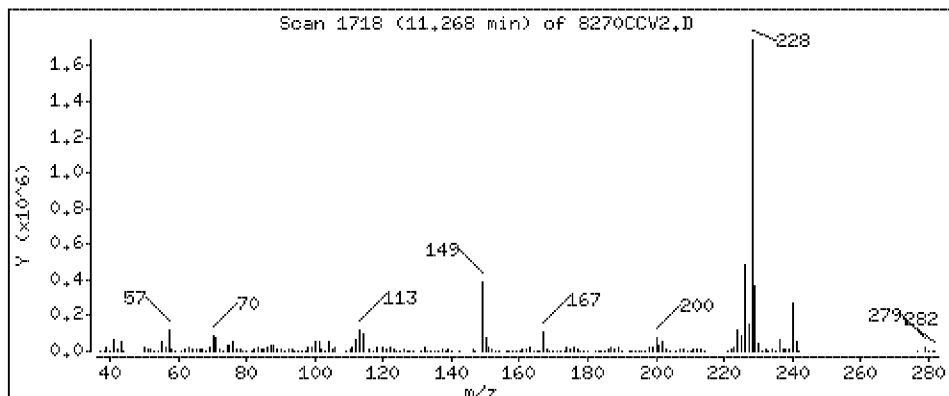
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

120 Benzo[*a*]anthracene

Concentration: 44.1 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

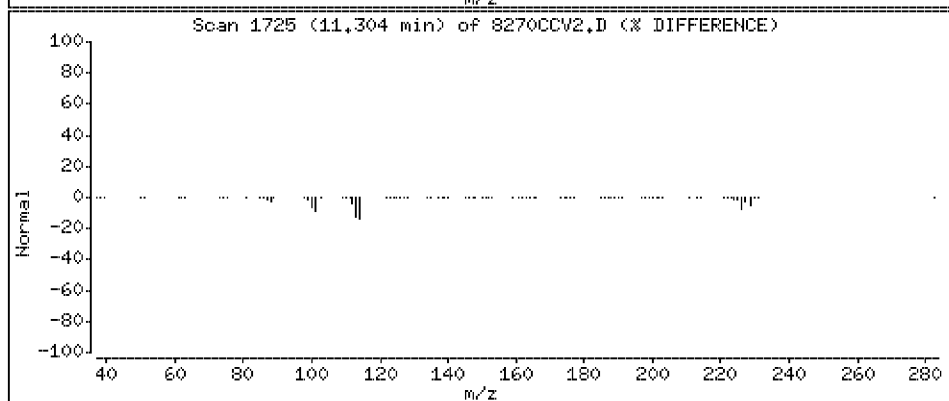
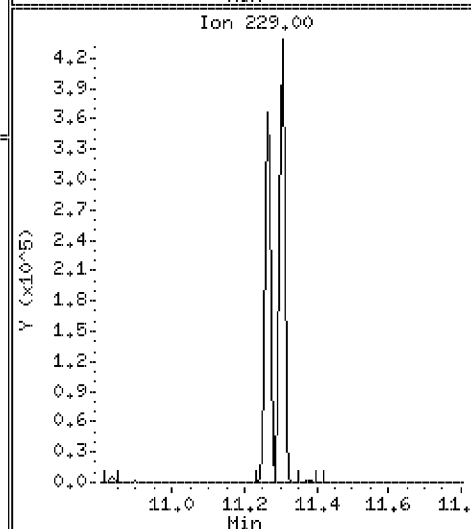
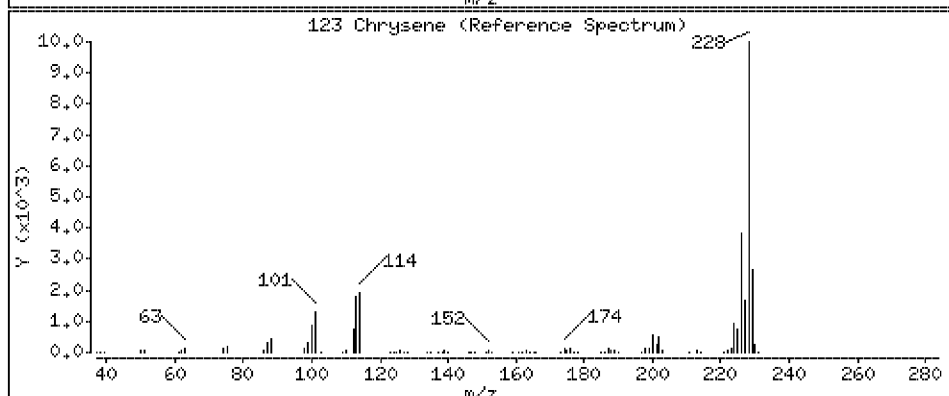
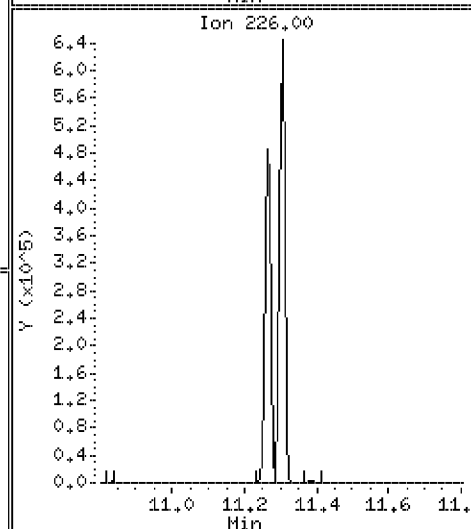
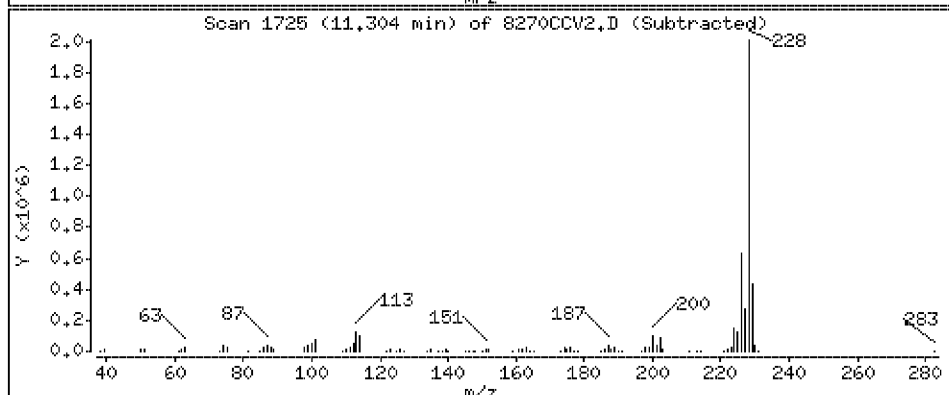
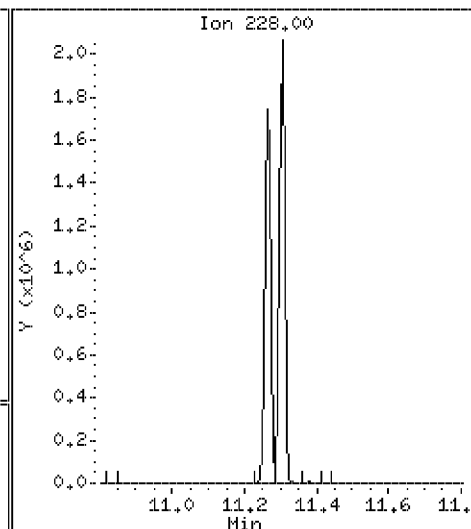
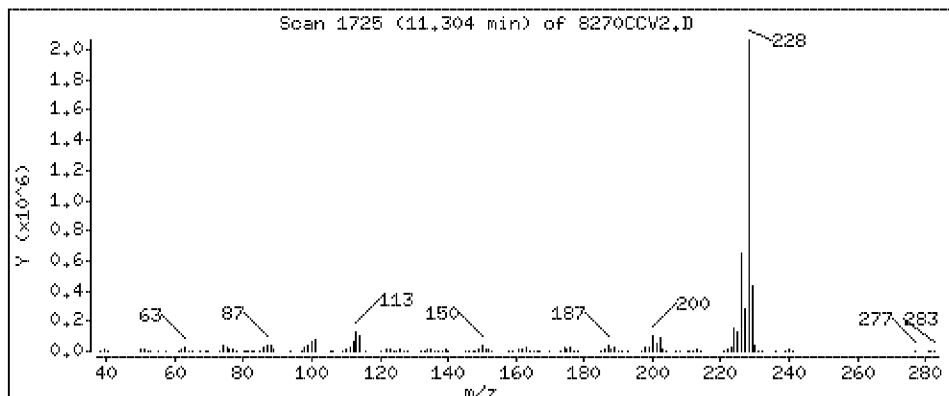
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

123 Chrysene

Concentration: 43.5 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

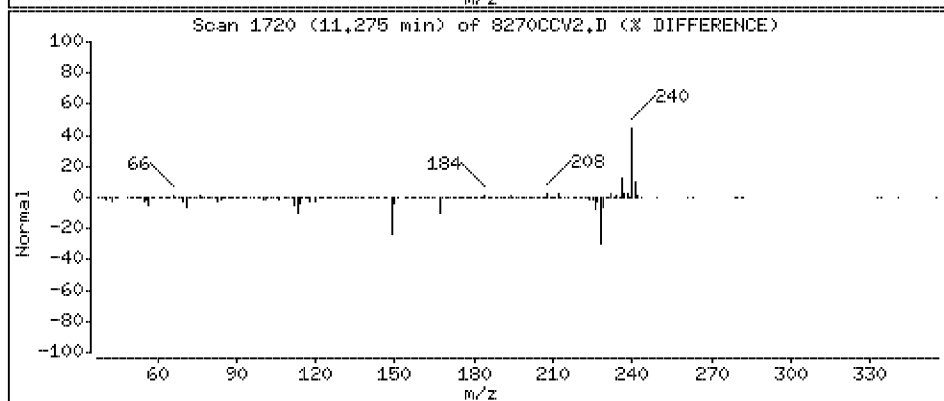
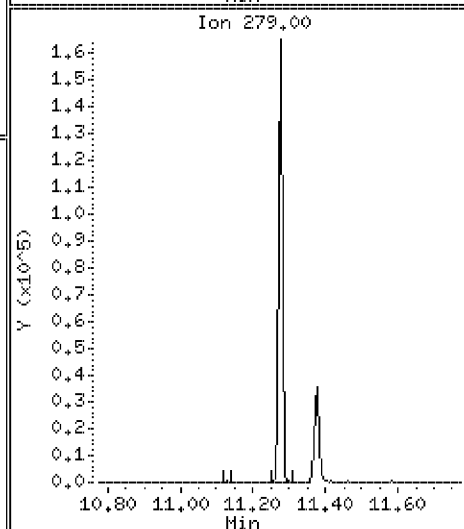
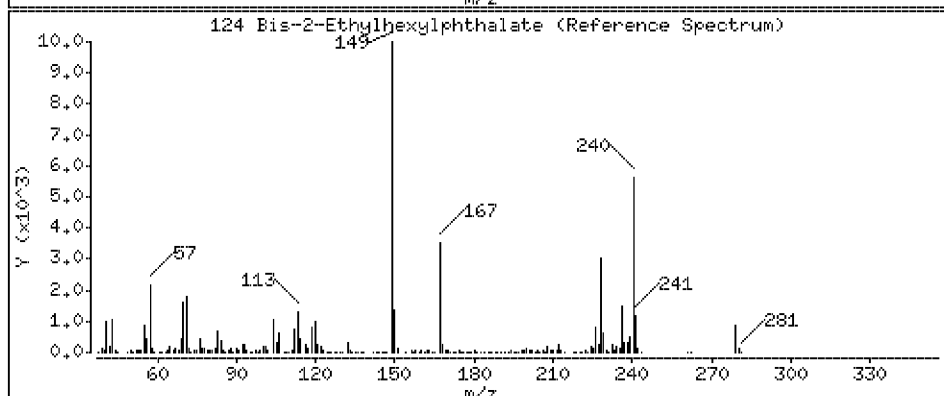
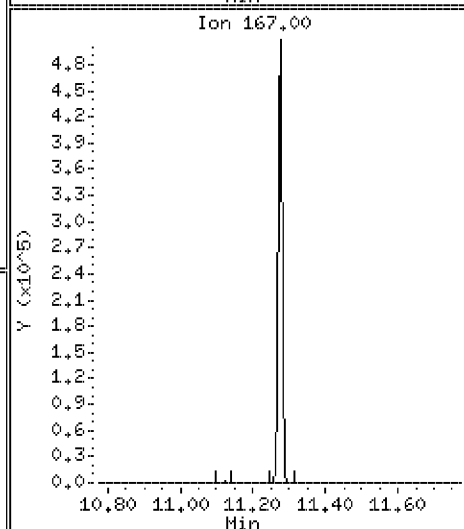
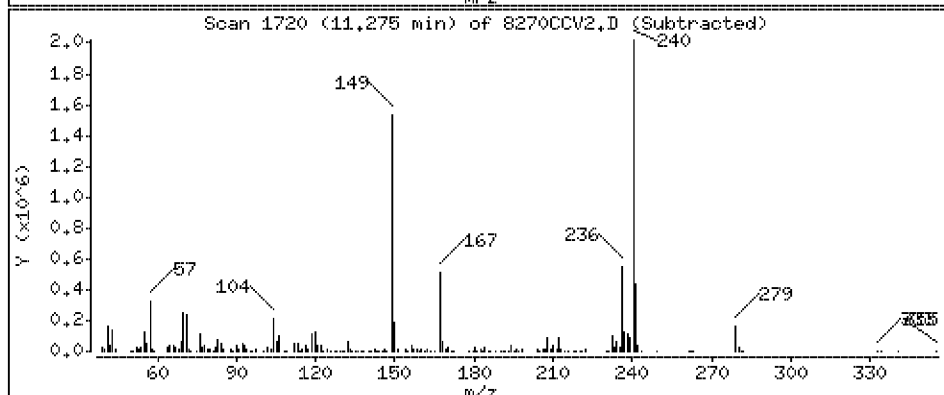
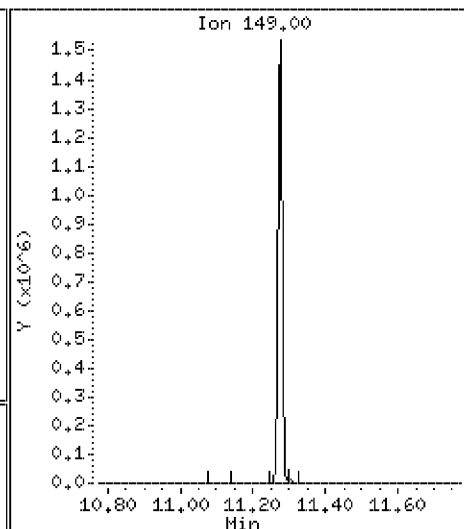
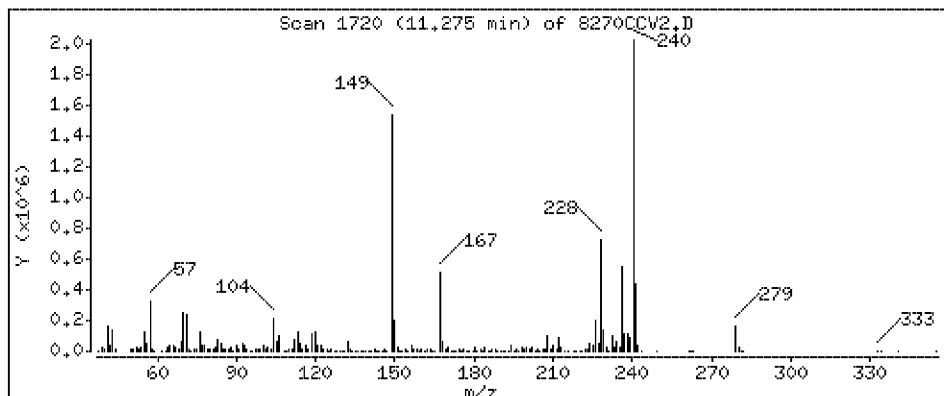
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

124 Bis-2-Ethylhexylphthalate

Concentration: 46.2 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

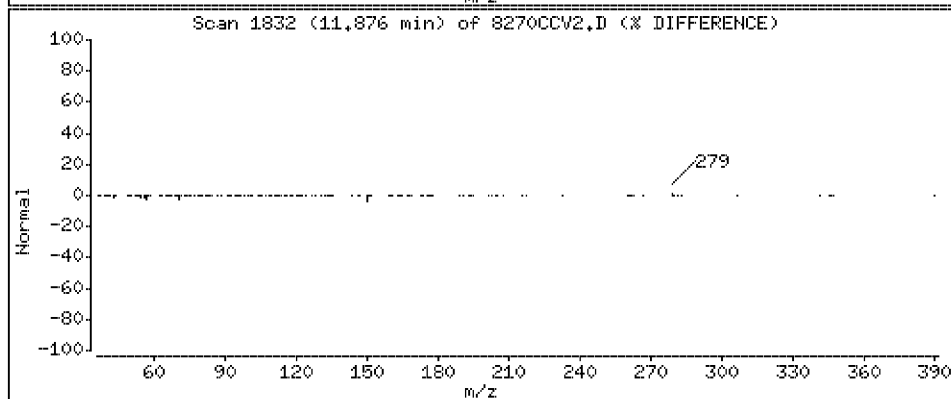
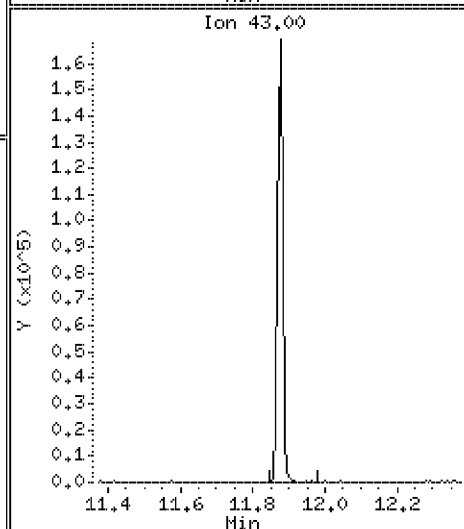
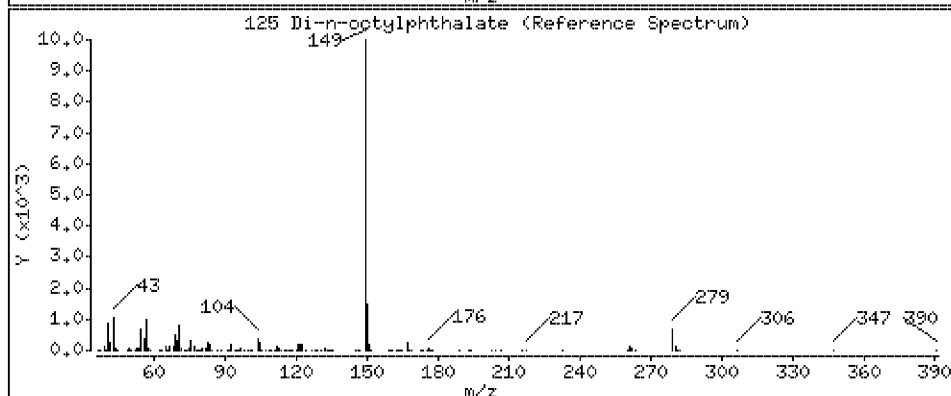
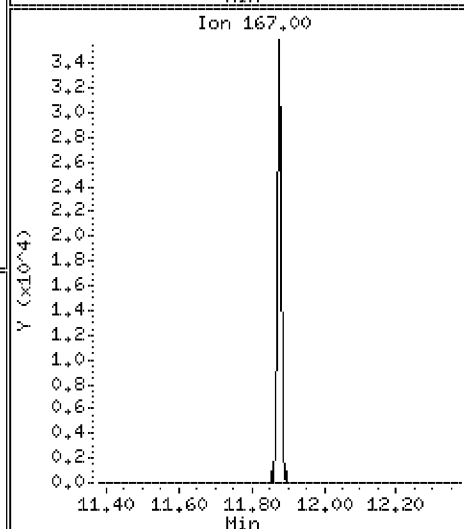
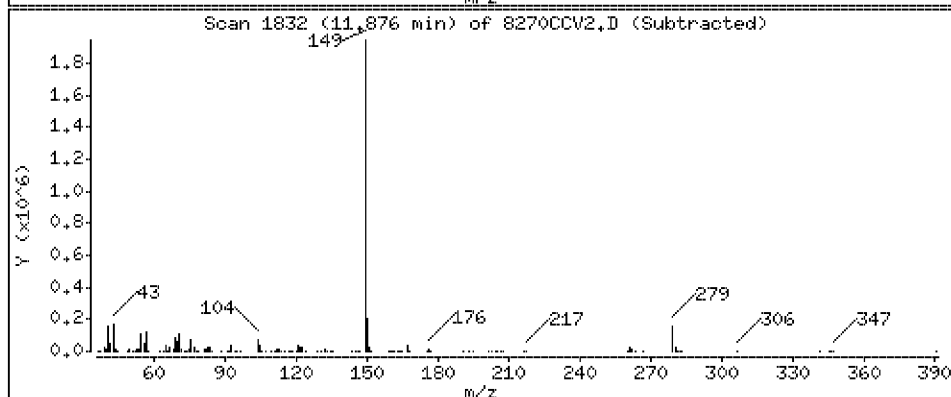
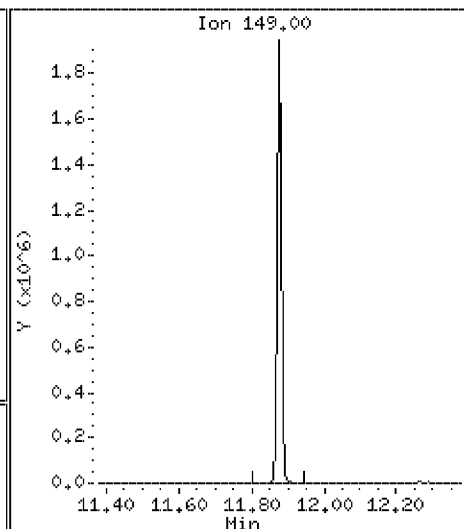
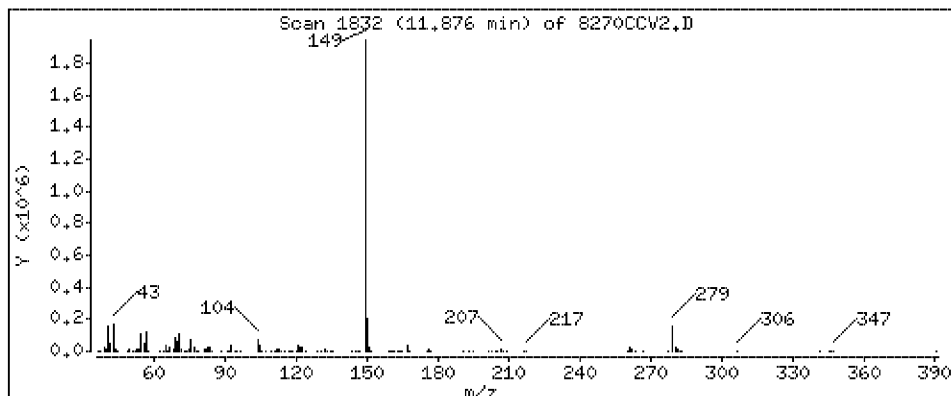
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

125 Di-n-octylphthalate

Concentration: 48.5 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

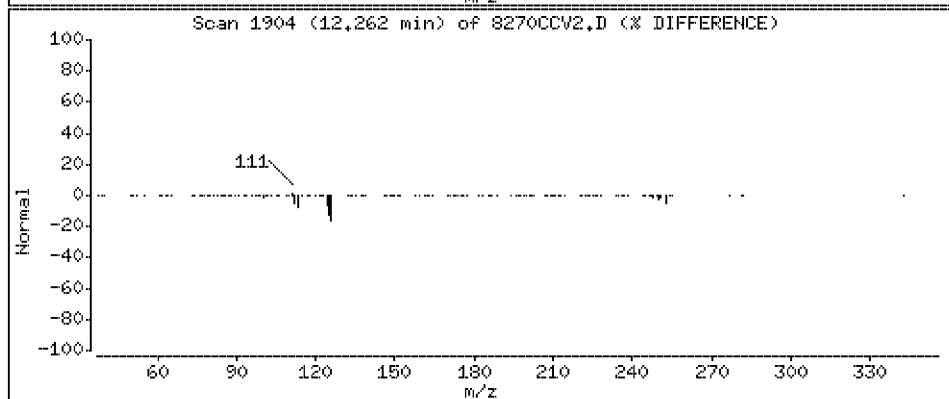
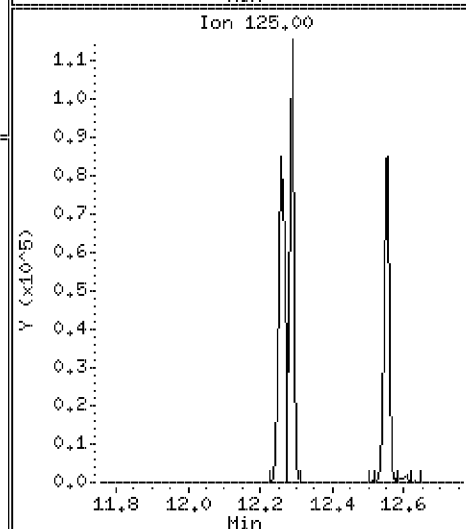
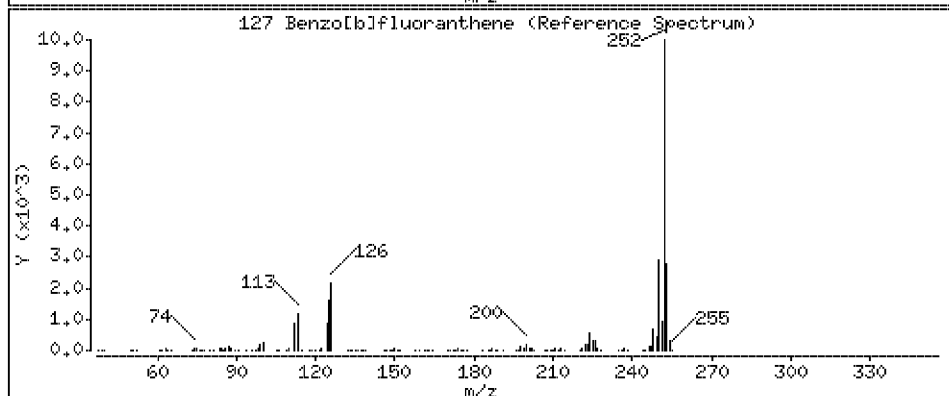
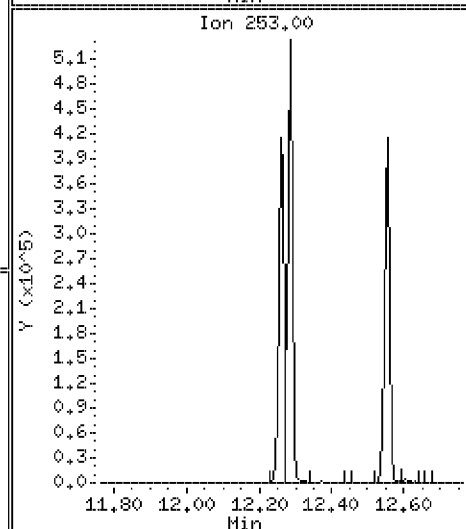
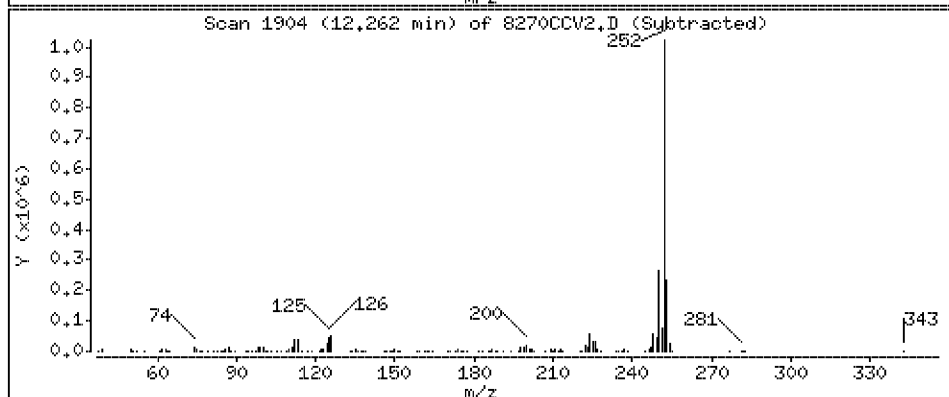
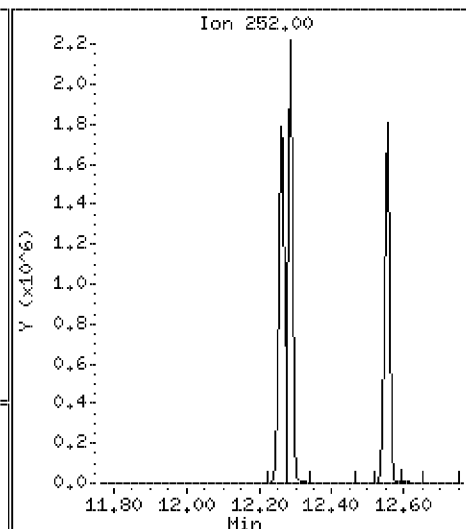
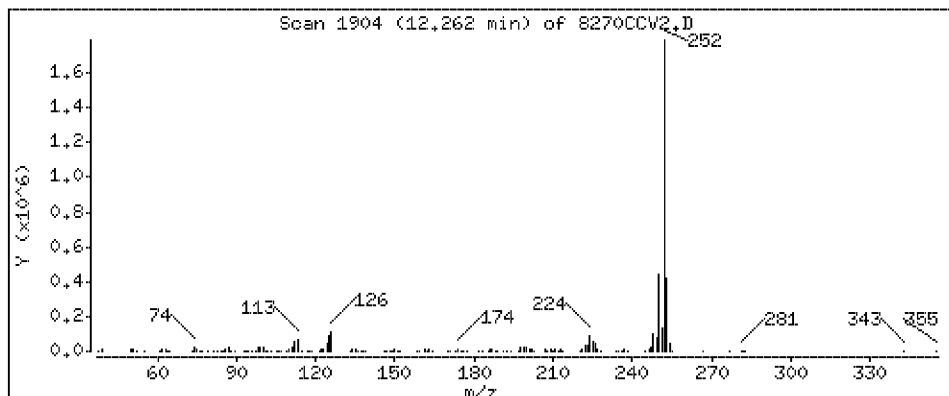
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

127 Benzo[b]fluoranthene

Concentration: 47.9 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

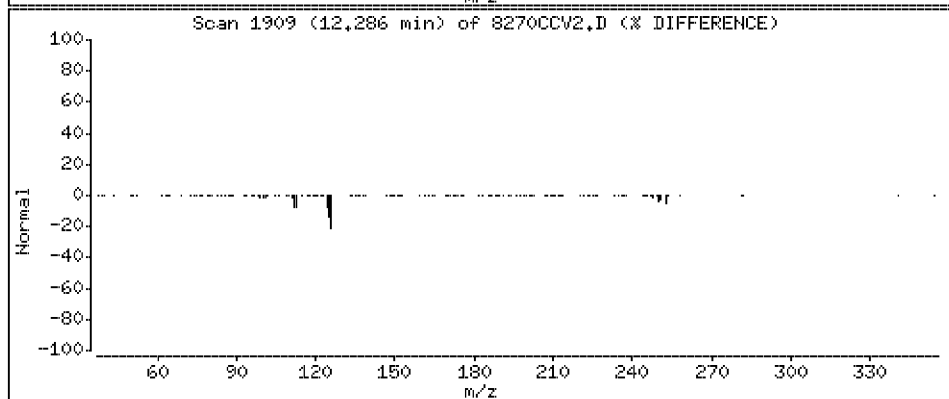
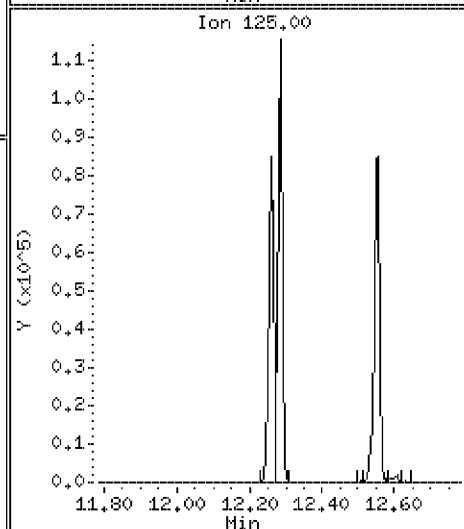
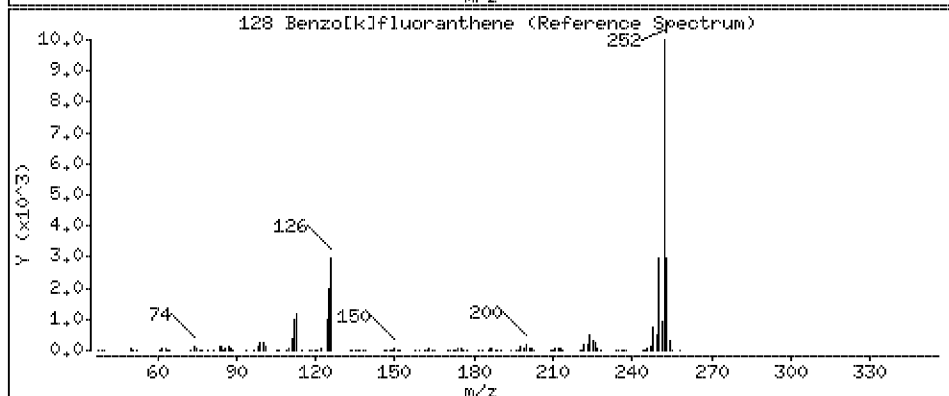
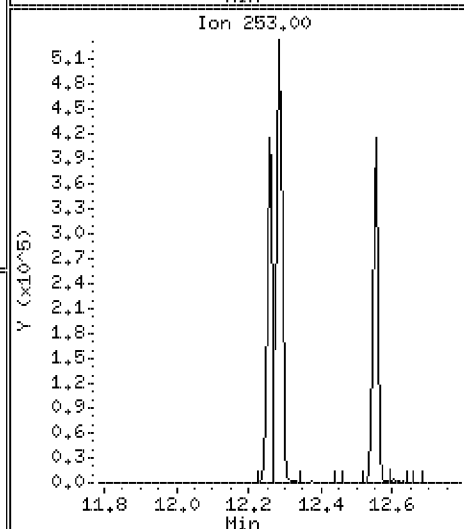
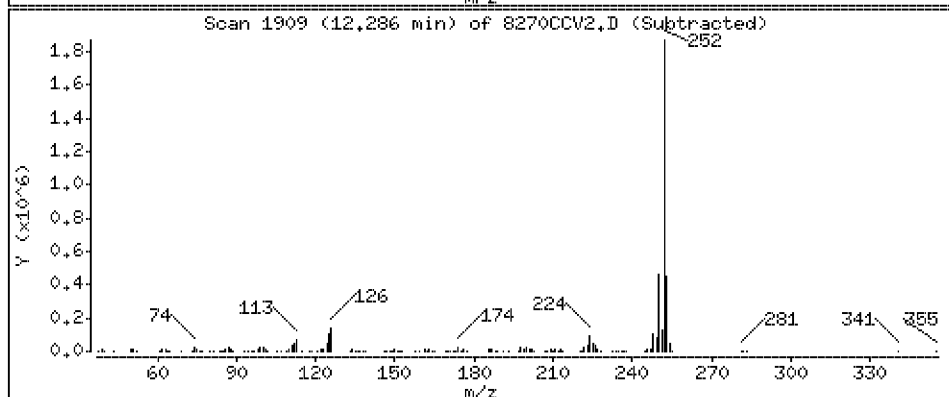
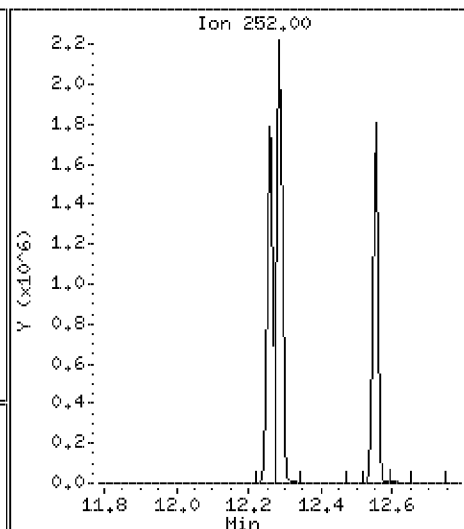
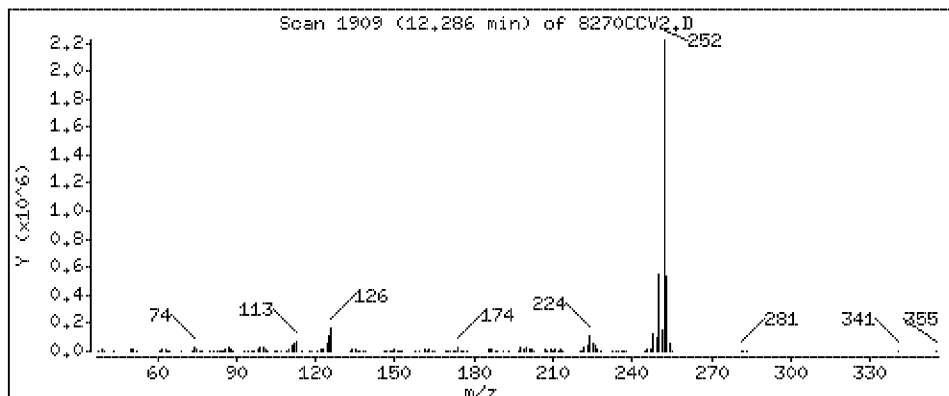
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

128 Benzo[k]fluoranthene

Concentration: 47.1 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

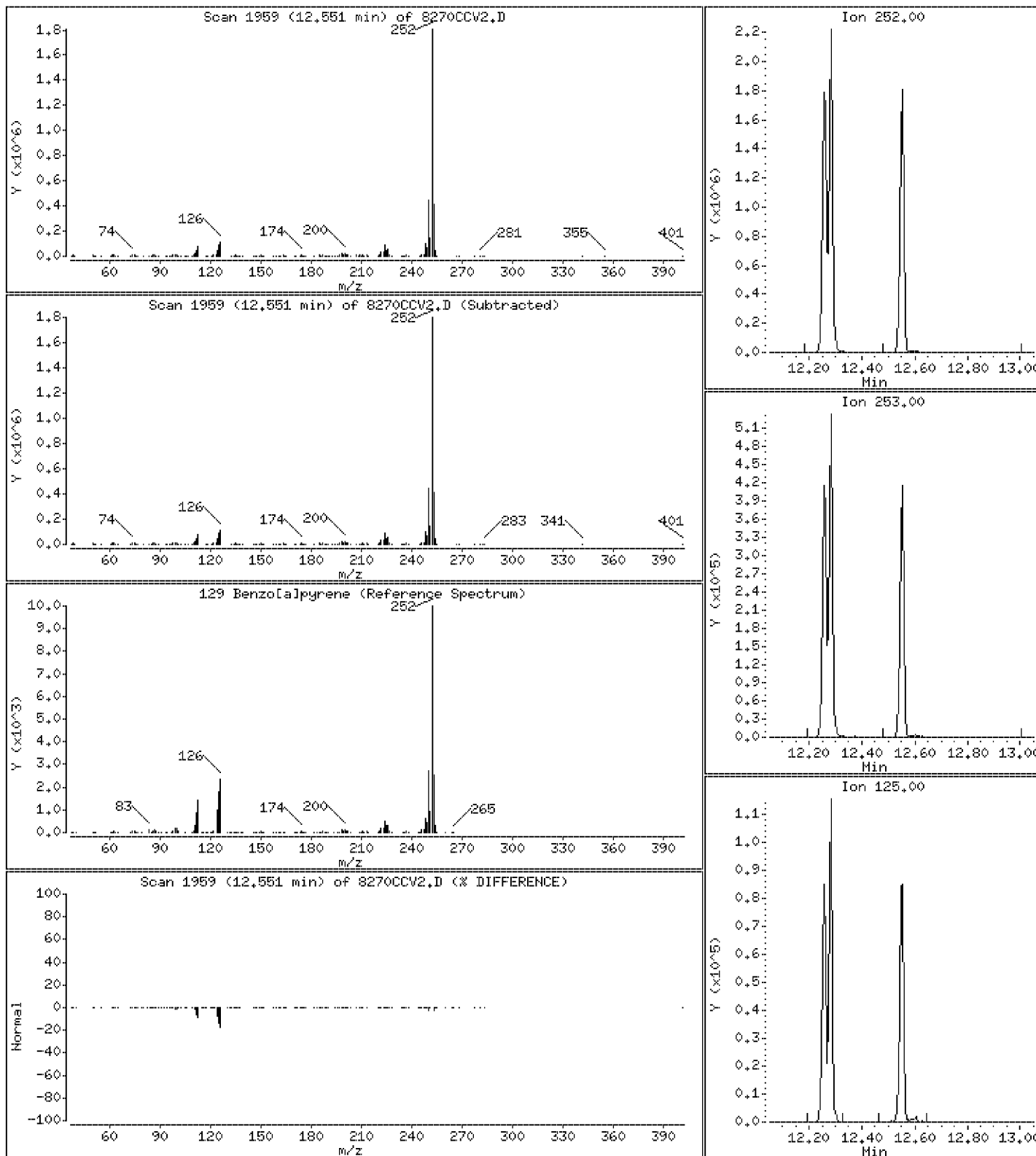
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

129 Benzo[a]pyrene

Concentration: 46.8 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

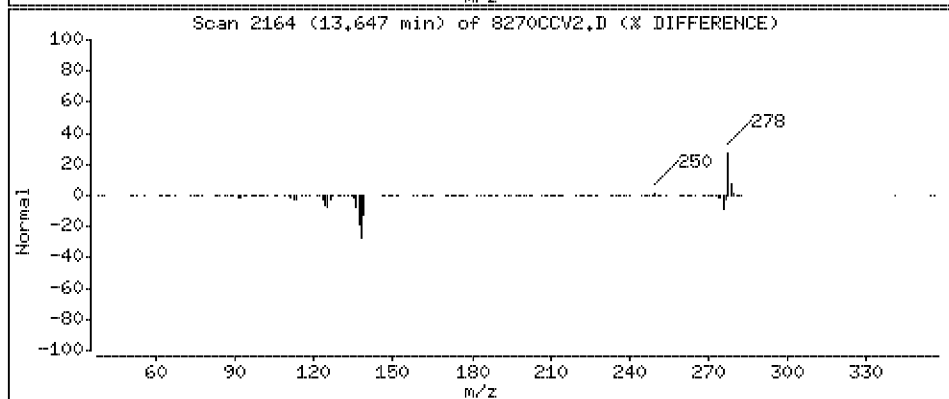
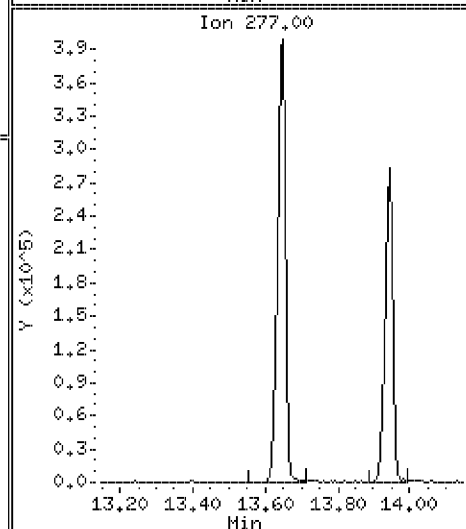
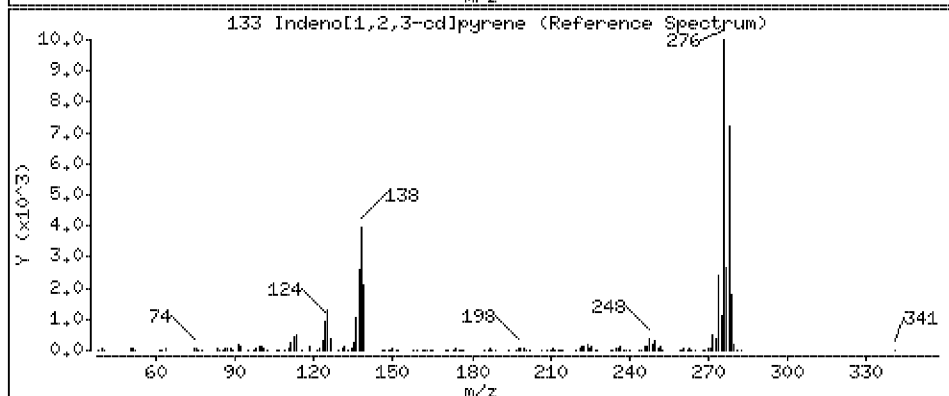
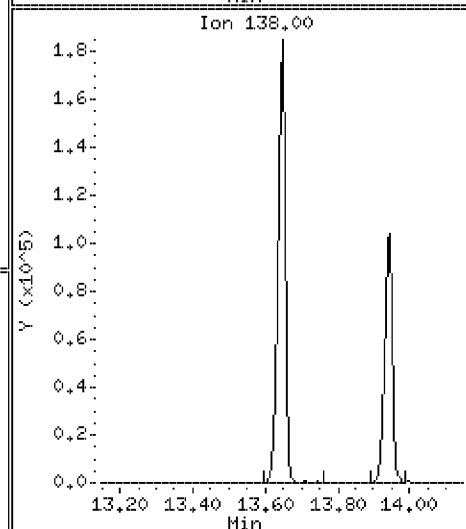
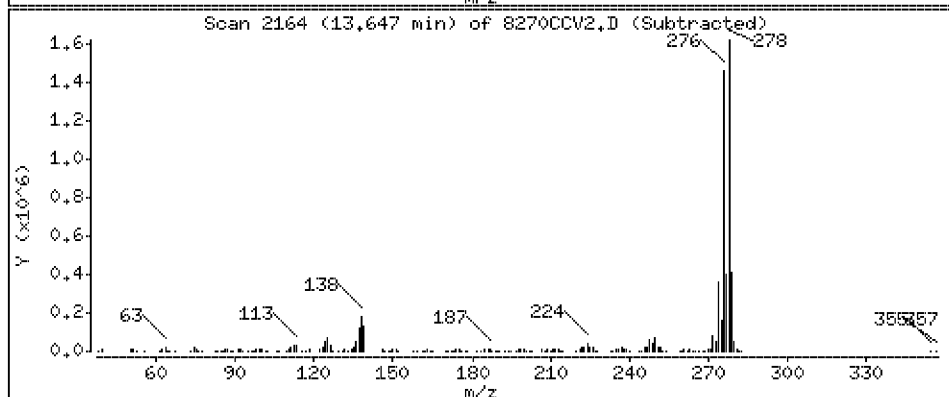
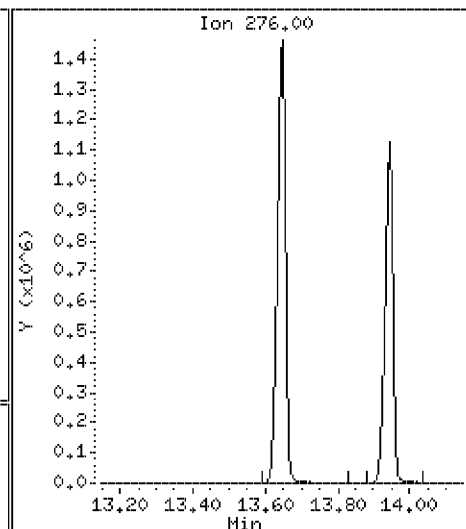
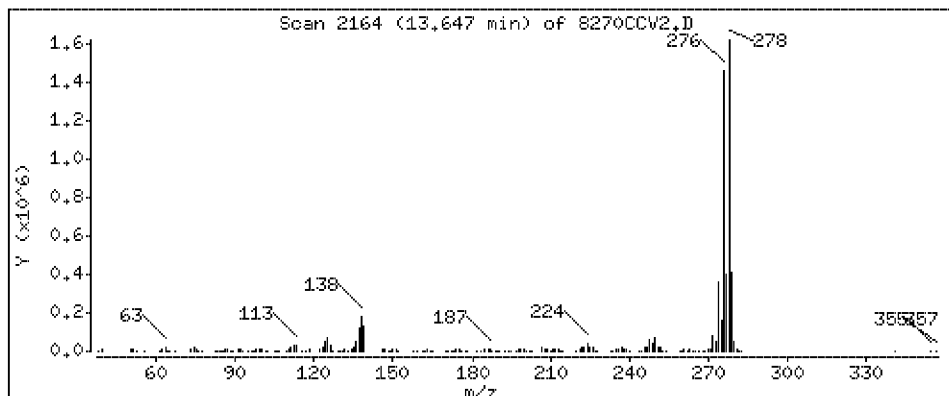
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

133 Indeno[1,2,3-cd]pyrene

Concentration: 48.0 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

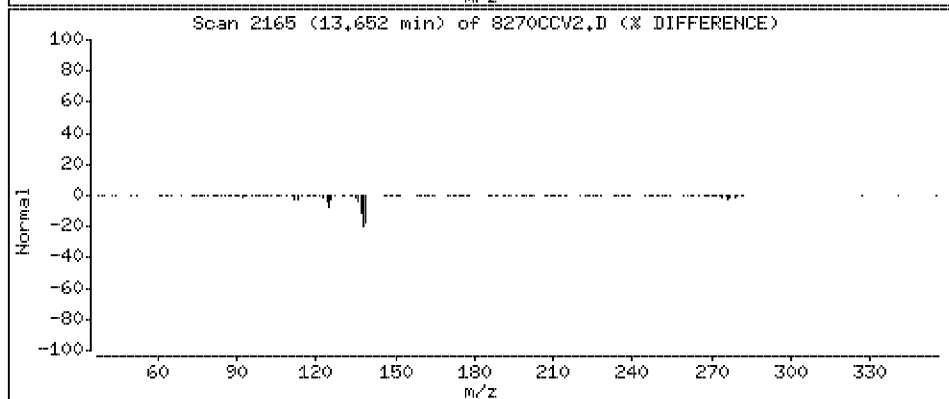
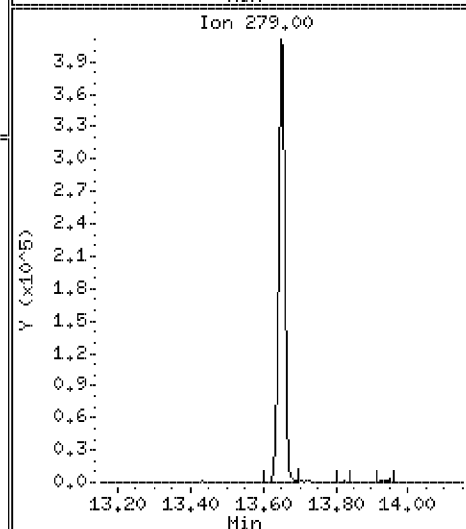
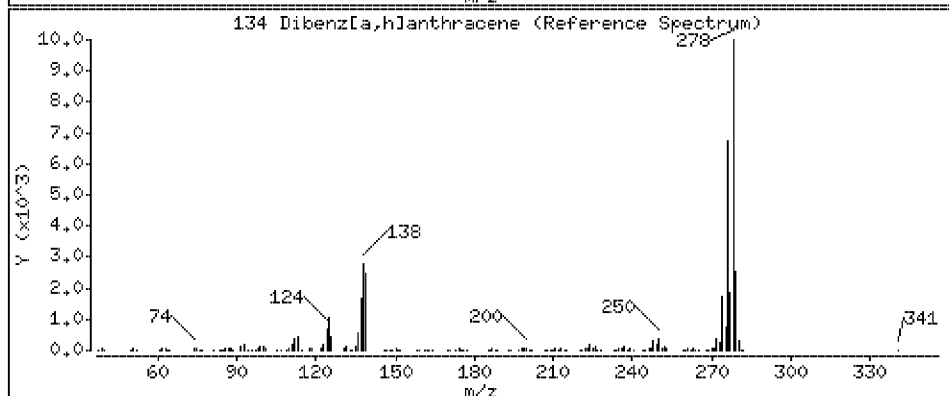
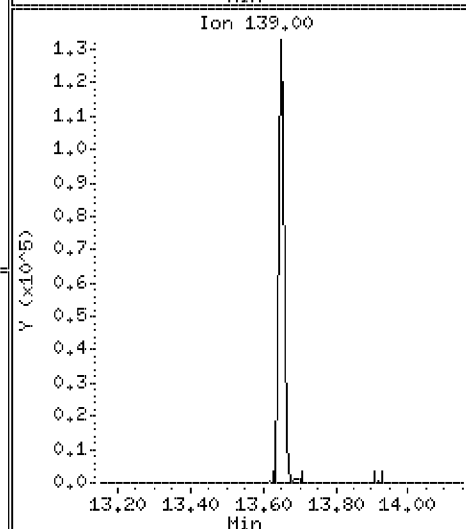
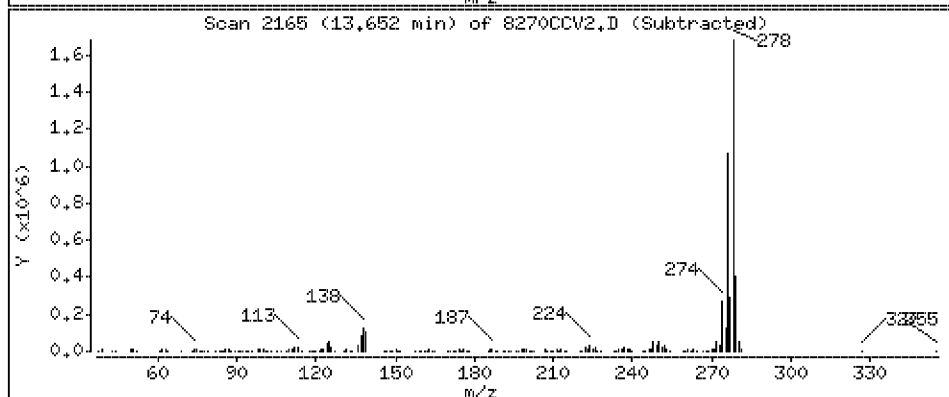
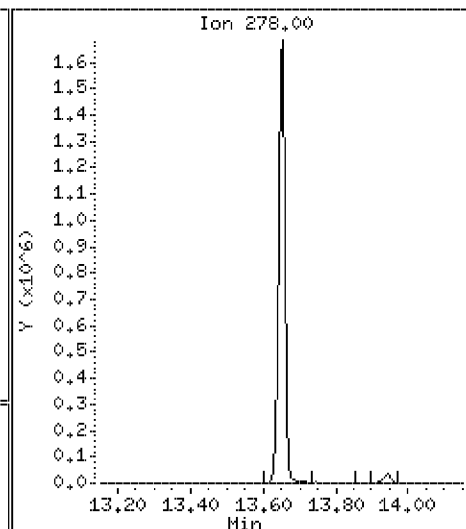
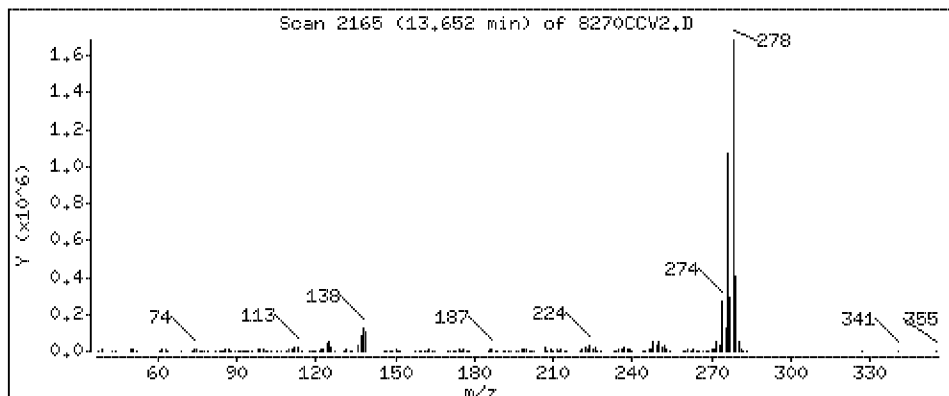
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

134 Dibenz[a,h]anthracene

Concentration: 48.8 ug/l



Date : 03-MAY-2012 12:03

Client ID: 8270CCV2

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

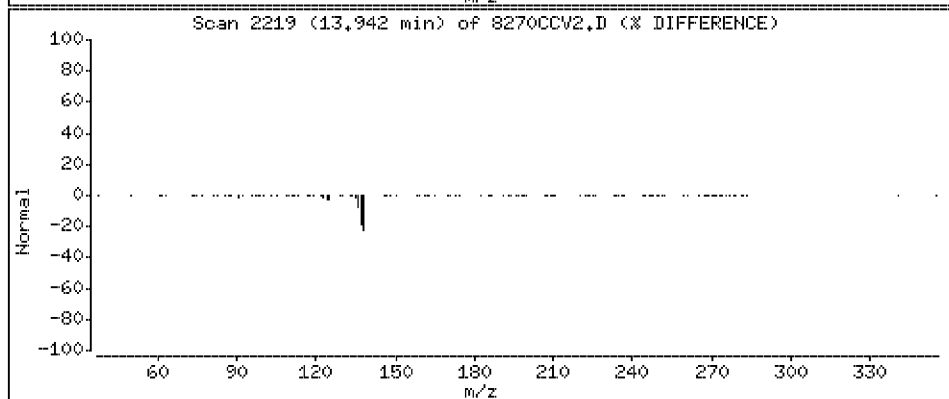
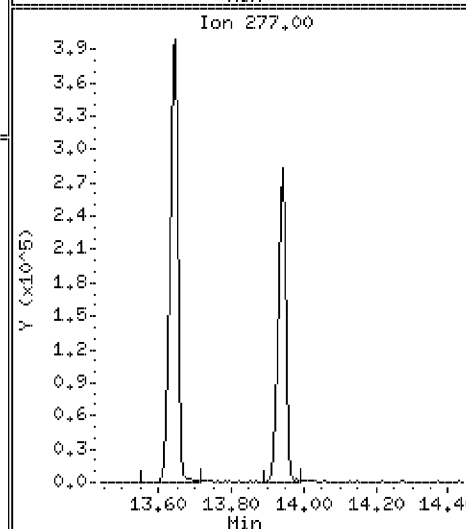
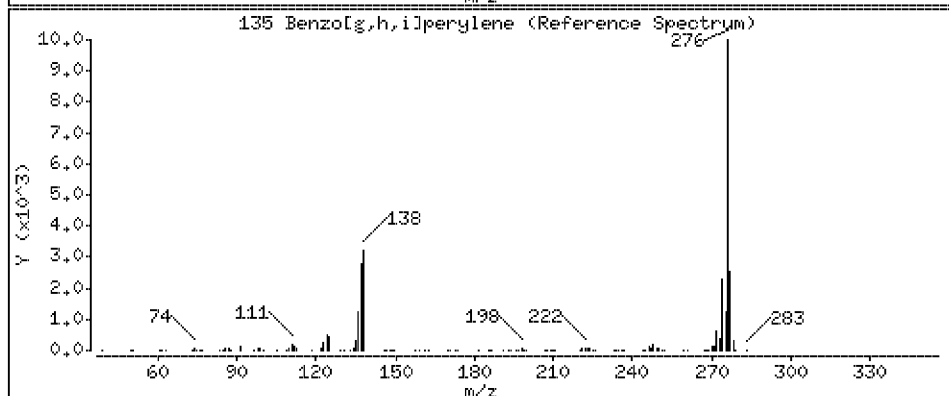
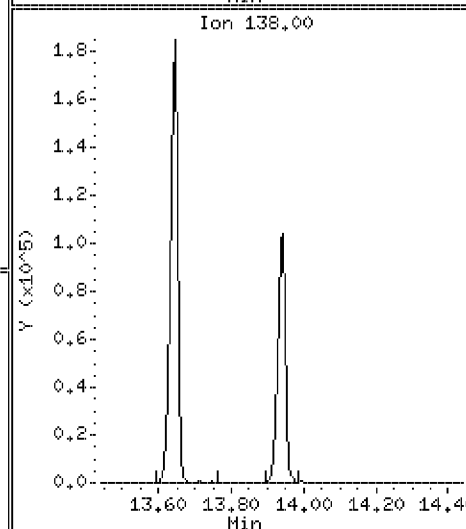
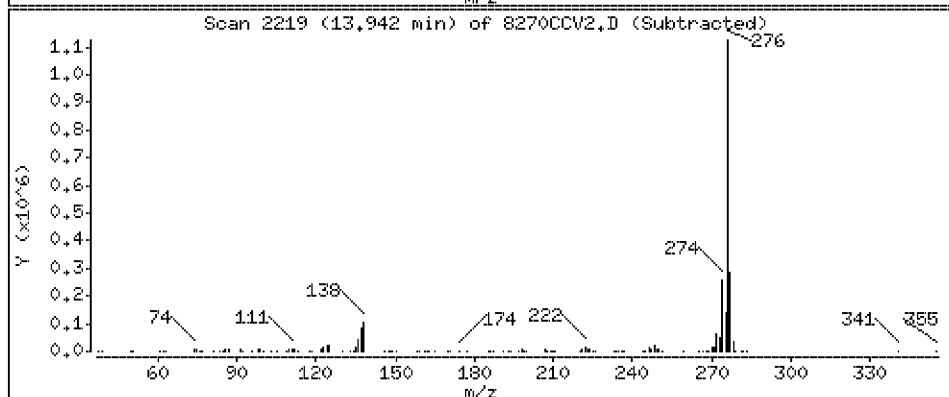
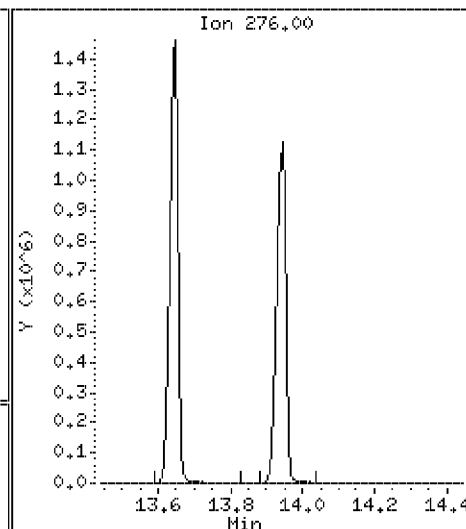
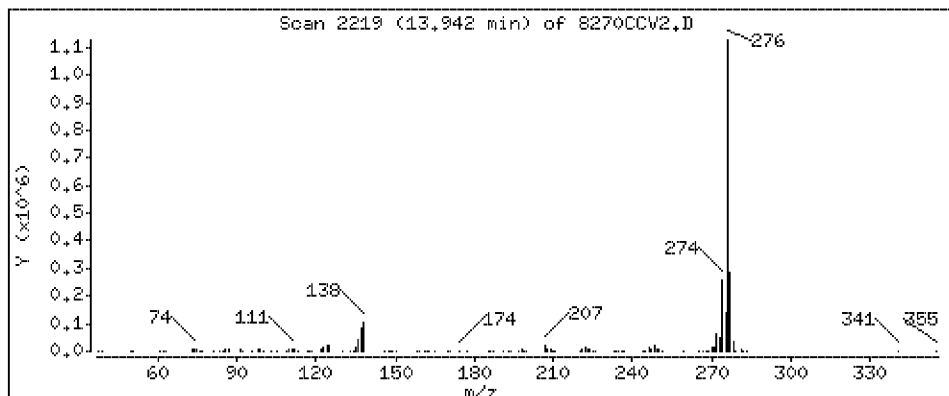
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

135 Benzo[g,h,i]perylene

Concentration: 46.3 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3050312.b\9300MB.D
 Lab Smp Id: 128824MB Client Smp ID: 128824MB
 Inj Date : 03-MAY-2012 14:03 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : SW128824MB
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3050312.b\8270bcs.m
 Meth Date : 03-May-2012 14:03 smsd03.i Quant Type: ISTD
 Cal Date : 23-APR-2012 18:17 Cal File: AP9CAL4.D
 Als bottle: 7 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Ws	20.340	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
\$ 6 2-Fluorophenol (SURR) CAS #: 367-12-4									
3.295	3.294 (0.754)		112	493884	79.3865	3900	80.00- 120.00	100.00	
3.294	3.294 (0.754)		64	310882			33.02- 93.02	62.95	
\$ 11 Phenol-d5 (SURR) CAS #: 4165-62-2									
4.050	4.054 (0.927)		99	637131	76.4033	3760	80.00- 120.00	100.00	
4.050	4.054 (0.927)		42	129576			0.00- 50.37	20.34	
4.050	4.054 (0.927)		71	374758			27.26- 87.26	58.82	
* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.368	4.367 (1.000)		152	215289	40.0000		80.00- 120.00	100.00	
4.367	4.367 (1.000)		115	136097			32.88- 92.88	63.22	
4.367	4.367 (1.000)		150	330284			139.40- 199.40	153.41	
\$ 31 Nitrobenzene-d5 (SURR) CAS #: 4165-60-0									
4.862	4.864 (0.880)		82	375661	38.6690	1900	80.00- 120.00	100.00	
4.863	4.865 (0.880)		128	111875			1.01- 61.01	29.78	
4.862	4.865 (0.879)		54	143200			7.97- 67.97	38.12	
* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.528	5.530 (1.000)		136	719851	40.0000		80.00- 120.00	100.00	

CONCENTRATIONS								
RT	EXP RT	REL RT	MASS	CONCENTRATIONS		TARGET RANGE	RATIO	
				ON-COL (ug/ml)	FINAL (ug/kg)			
* 43 Naphthalene-d8 (continued)								
5.527	5.529	(1.000)	68	37996		0.00- 35.11	5.28	

\$ 59 2-Fluorobiphenyl (SURR) CAS #: 321-60-8								
6.564	6.565	(0.909)	172	691417	35.9644	1770 80.00- 120.00	100.00	
6.564	6.565	(0.909)	171	241708		5.09- 65.09	34.96	

* 70 Acenaphthene-d10 CAS #: 15067-26-2								
7.224	7.225	(1.000)	164	496820	40.0000	80.00- 120.00	100.00	
7.223	7.225	(1.000)	162	477867		65.82- 125.82	96.19	
7.224	7.225	(1.000)	160	214171		14.18- 74.18	43.11	

\$ 88 2,4,6-Tribromophenol (SURR) CAS #: 118-79-6								
7.999	8.001	(1.107)	330	303120	87.3237	4290 80.00- 120.00	100.00	
7.999	8.001	(1.107)	332	289469		67.74- 127.74	95.50	
7.996	7.999	(1.107)	141	117907		11.22- 71.22	38.90	

* 100 Phenanthrene-d10 CAS #: 1517-22-2								
8.678	8.679	(1.000)	188	983227	40.0000	80.00- 120.00	100.00	
8.677	8.678	(1.000)	94	56009		0.00- 35.53	5.70	
8.677	8.678	(1.000)	80	68469		0.00- 37.34	6.96	

\$ 112 Terphenyl-d14 (SURR) CAS #: 1718-51-0								
10.242	10.242	(0.908)	244	1129842	45.6487	2240 80.00- 120.00	100.00	
10.241	10.241	(0.908)	122	62460		0.00- 36.17	5.53	
10.242	10.242	(0.908)	212	87116		0.00- 38.02	7.71	

* 121 Chrysene-d12 CAS #: 1719-03-5								
11.274	11.278	(1.000)	240	1311981	40.0000	80.00- 120.00	100.00	
11.273	11.276	(1.000)	120	65564		0.00- 35.66	5.00	
11.274	11.278	(1.000)	236	350199		0.00- 56.55	26.69	

124 Bis-2-Ethylhexylphthalate CAS #: 117-81-7								
11.273	11.274	(1.000)	149	57258	2.93390	144 80.00- 120.00	100.00	
11.273	11.275	(1.000)	167	17496		1.60- 61.60	30.56	
11.274	11.276	(1.000)	279	5773		0.00- 39.61	10.08	

* 130 Perylene-d12 CAS #: 1520-96-3								
12.610	12.603	(1.000)	264	1361727	40.0000	80.00- 120.00	100.00	
12.610	12.603	(1.000)	260	331060		0.00- 54.38	24.31	
12.610	12.603	(1.000)	265	308725		0.00- 52.89	22.67	

Date : 03-MAY-2012 14:03

Client ID: 128824MB

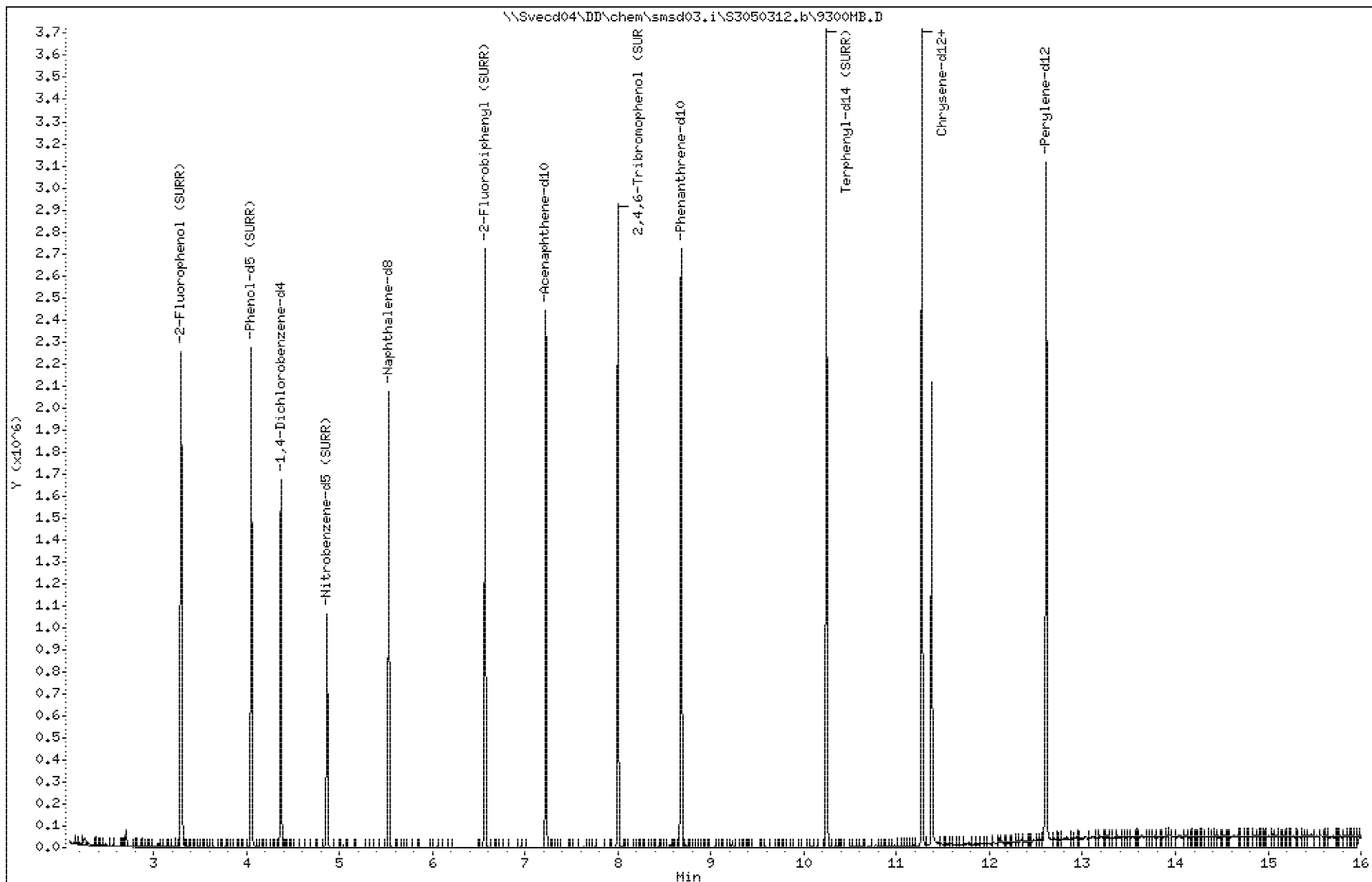
Sample Info: SN128824MB

Instrument: smsd03.i

Operator: PEL

Column diameter: 0.25

Column phase: HPMS-5



Date : 03-MAY-2012 14:03

Client ID: 128824MB

Instrument: smsd03.i

Sample Info: SM128824MB

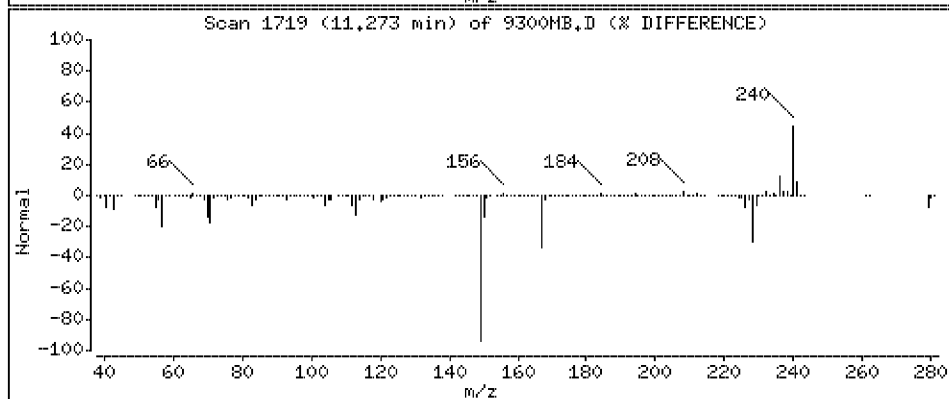
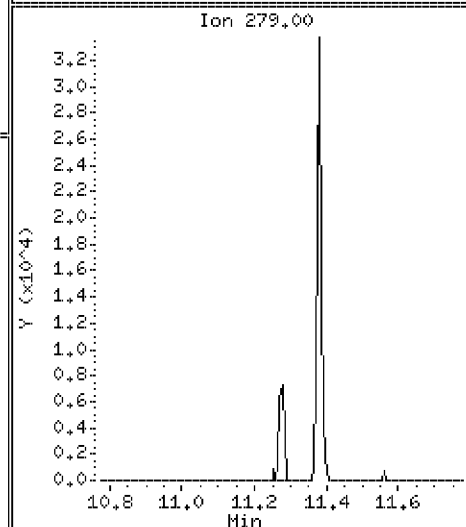
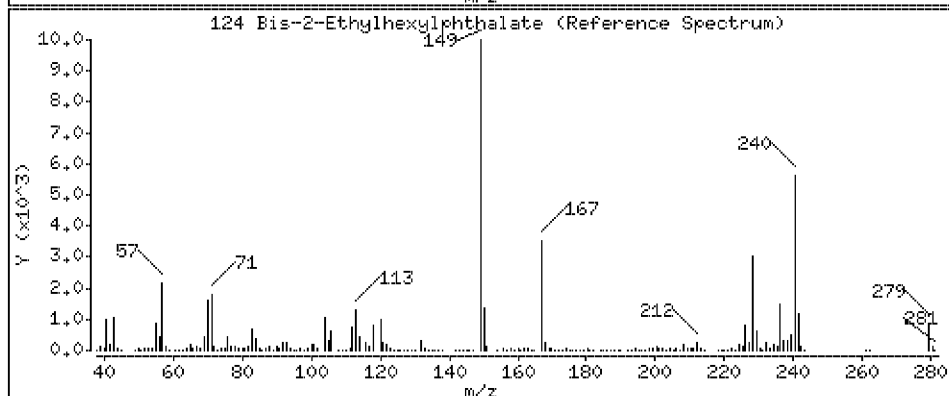
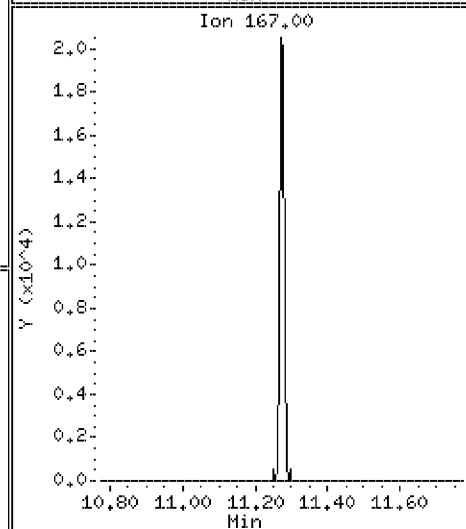
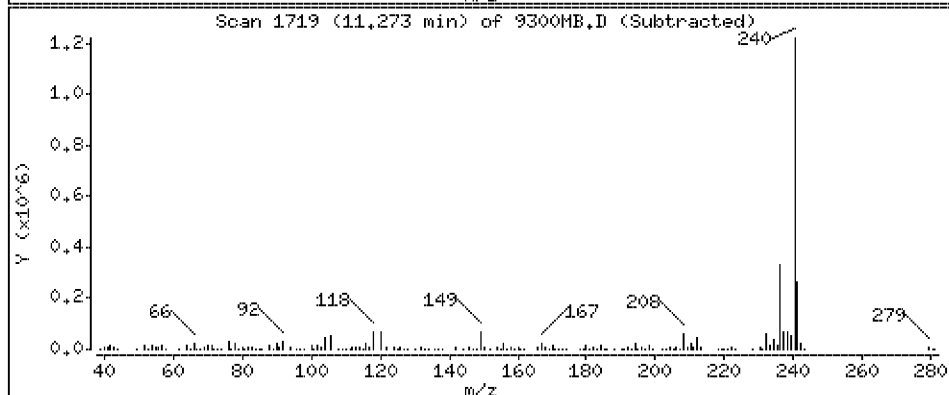
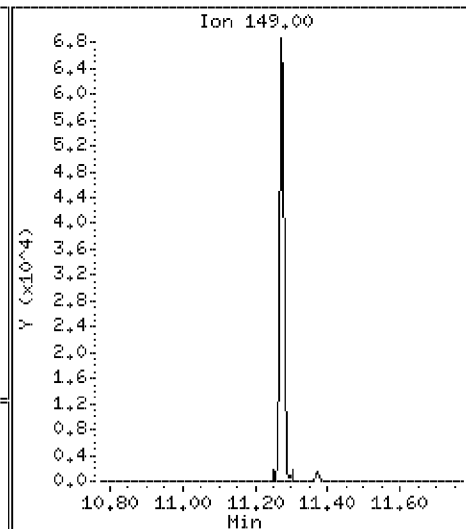
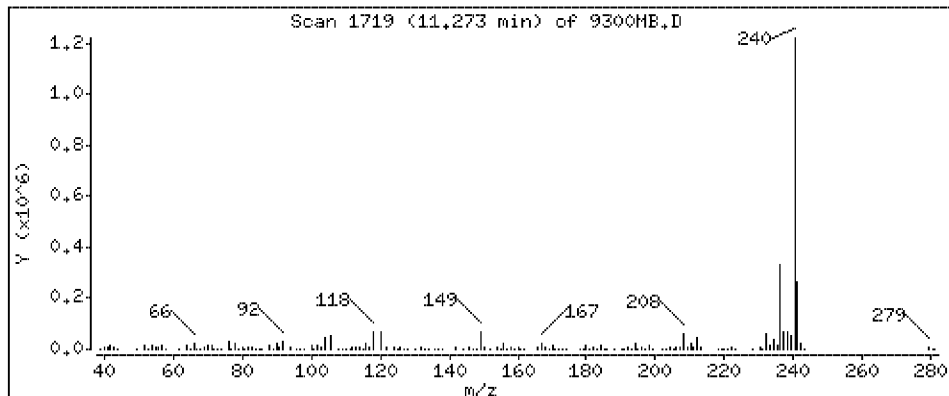
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

124 Bis-2-Ethylhexylphthalate

Concentration: 144 ug/kg



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3050312.b\9300LCS.D
 Lab Smp Id: 128825LCS Client Smp ID: 128825LCS
 Inj Date : 03-MAY-2012 14:27 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : SW128825LCS
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3050312.b\8270bcs.m
 Meth Date : 03-May-2012 14:03 smsd03.i Quant Type: ISTD
 Cal Date : 23-APR-2012 18:17 Cal File: AP9CAL4.D
 Als bottle: 8 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Ws	20.210	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
2 Pyridine CAS #: 110-86-1									
2.302	2.293	(0.527)	79	185434	21.6342	1070	80.00- 120.00	100.00(M)	
2.300	2.293	(0.526)	52	68528			9.46- 69.46	36.96	
M 16 Cresols (Total) CAS #: 1319-77-3									
				458946	61.4131	3040		(a)	
1 N-Nitrosodimethylamine CAS #: 62-75-9									
2.256	2.253	(0.516)	42	129702	33.4696	1660	80.00- 120.00	100.00	
2.256	2.254	(0.516)	74	171900			98.78- 158.78	132.53	
2.254	2.254	(0.516)	44	5155			0.00- 33.98	3.97	
\$ 6 2-Fluorophenol (SURR) CAS #: 367-12-4									
3.297	3.294	(0.755)	112	482836	73.2308	3620	80.00- 120.00	100.00	
3.296	3.294	(0.755)	64	315942			33.02- 93.02	65.43	
\$ 11 Phenol-d5 (SURR) CAS #: 4165-62-2									
4.054	4.054	(0.928)	99	642387	72.6864	3600	80.00- 120.00	100.00	
4.054	4.054	(0.928)	42	130387			0.00- 50.37	20.30	
4.054	4.054	(0.928)	71	384590			27.26- 87.26	59.87	

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	CON-COL		TARGET RANGE	RATIO	
					(ug/ml)	FINAL (ug/kg)			
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
13 Phenol					CAS #: 108-95-2				
4.065	4.065	(0.931)	94	280302	27.9359	1380	80.00- 120.00	100.00	
4.065	4.065	(0.931)	65	114922			10.24- 70.24	41.00	
4.064	4.064	(0.930)	66	227625			45.75- 105.75	81.21	

10 Aniline					CAS #: 62-53-3				
4.087	4.088	(0.936)	93	252313	23.7255	1170	80.00- 120.00	100.00	
4.087	4.087	(0.936)	65	64046			0.00- 51.66	25.38	
4.087	4.087	(0.936)	66	109555			9.67- 69.67	43.42	

14 Bis(2-Chloroethyl)ether					CAS #: 111-44-4				
4.131	4.131	(0.946)	93	197606	31.3345	1550	80.00- 120.00	100.00	
4.130	4.131	(0.946)	63	146031			40.27- 100.27	73.90	
4.130	4.131	(0.945)	95	97227			1.25- 61.25	49.20	

15 2-Chlorophenol					CAS #: 95-57-8				
4.195	4.195	(0.960)	128	190191	28.8262	1430	80.00- 120.00	100.00	
4.195	4.194	(0.960)	64	100965			23.10- 83.10	53.09	
4.195	4.195	(0.960)	130	60198			2.60- 62.60	31.65	

17 1,3-Dichlorobenzene					CAS #: 541-73-1				
4.321	4.320	(0.989)	146	216482	26.7508	1320	80.00- 120.00	100.00	
4.321	4.320	(0.989)	148	151003			36.53- 96.53	69.75	
4.321	4.320	(0.989)	111	100194			16.14- 76.14	46.28	

* 18 1,4-Dichlorobenzene-d4					CAS #: 3855-82-1				
4.369	4.367	(1.000)	152	228165	40.0000		80.00- 120.00	100.00	
4.368	4.367	(1.000)	115	145932			32.88- 92.88	63.96	
4.368	4.367	(1.000)	150	364470			139.40- 199.40	159.74	

19 1,4-Dichlorobenzene					CAS #: 106-46-7				
4.383	4.382	(1.003)	146	231139	27.1001	1340	80.00- 120.00	100.00	
4.383	4.382	(1.003)	148	150941			35.73- 95.73	65.30	
4.382	4.382	(1.003)	111	108059			14.54- 74.54	46.75	

21 Benzyl alcohol					CAS #: 100-51-6				
4.487	4.487	(1.027)	108	129839	28.7248	1420	80.00- 120.00	100.00	
4.487	4.487	(1.027)	79	232219			158.45- 218.45	178.85	
4.487	4.487	(1.027)	77	167784			103.23- 163.23	129.22	

20 1,2-Dichlorobenzene					CAS #: 95-50-1				
4.520	4.519	(1.035)	146	205744	26.4939	1310	80.00- 120.00	100.00	
4.520	4.519	(1.035)	148	142169			38.42- 98.42	69.10	
4.519	4.519	(1.035)	111	98072			17.88- 77.88	47.67	

22 2-Methylphenol					CAS #: 95-48-7				
4.594	4.587	(1.052)	107	160729	26.8954	1330	80.00- 120.00	100.00	
4.594	4.587	(1.052)	108	181312			79.27- 139.27	112.81	
4.595	4.588	(1.052)	79	152408			59.75- 119.75	94.82	

23 2,2'-oxybis(1-chloropropane)					CAS #: 108-60-1				
4.598	4.598	(1.053)	45	119989	27.2148	1350	80.00- 120.00	100.00	
4.595	4.588	(1.052)	77	174108			117.18- 177.18	145.10	

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	ON-COL		FINAL	TARGET RANGE	RATIO	
				RESPONSE	(ug/ml)	(ug/kg)			
====	=====	=====	=====	=====	=====	=====	=====	=====	=====
23 2,2'-oxybis(1-chloropropane) (continued)									
4.598	4.599	(1.053)	121	65561			21.64-	81.64	54.64

28 4-Methylphenol CAS #: 106-44-5									
4.726	4.725	(1.082)	107	298217	34.5177	1710	80.00-	120.00	100.00
4.726	4.725	(1.082)	108	234787			49.60-	109.60	78.73
4.725	4.725	(1.082)	79	99920			4.02-	64.02	33.51

26 N-Nitrosodipropylamine CAS #: 621-64-7									
4.723	4.721	(1.081)	70	249807	37.1963	1840	80.00-	120.00	100.00(Q)
4.721	4.721	(1.081)	42	195471			9.22-	69.22	78.25
4.724	4.722	(1.081)	130	46187			0.00-	49.20	18.49

30 Hexachloroethane CAS #: 67-72-1									
4.821	4.821	(1.104)	117	96370	28.6076	1420	80.00-	120.00	100.00
4.823	4.822	(1.104)	201	115509			89.26-	149.26	119.86
4.823	4.822	(1.104)	199	68156			45.67-	105.67	70.72

31 Nitrobenzene-d5 (SURR) CAS #: 4165-60-0									
4.866	4.864	(0.880)	82	376165	38.1029	1880	80.00-	120.00	100.00
4.866	4.865	(0.880)	128	112541			1.01-	61.01	29.92
4.866	4.865	(0.880)	54	141766			7.97-	67.97	37.69

32 Nitrobenzene CAS #: 98-95-3									
4.883	4.882	(0.883)	77	291963	30.0002	1480	80.00-	120.00	100.00
4.883	4.883	(0.883)	123	91116			2.32-	62.32	31.21
4.883	4.882	(0.883)	65	46263			0.00-	45.08	15.85

34 Isophorone CAS #: 78-59-1									
5.096	5.097	(0.922)	82	446286	37.7575	1870	80.00-	120.00	100.00
5.097	5.098	(0.922)	138	68813			0.00-	45.91	15.42
5.096	5.097	(0.922)	95	40704			0.00-	39.21	9.12

35 2-Nitrophenol CAS #: 88-75-5									
5.175	5.174	(0.936)	139	106597	29.5973	1460	80.00-	120.00	100.00
5.174	5.173	(0.936)	65	80186			44.70-	104.70	75.22
5.174	5.174	(0.936)	109	60446			23.45-	83.45	56.71

36 2,4-Dimethylphenol CAS #: 105-67-9									
5.213	5.212	(0.943)	122	179139	32.3054	1600	80.00-	120.00	100.00
5.212	5.212	(0.943)	107	250135			113.06-	173.06	139.63
5.213	5.212	(0.943)	121	103764			28.95-	88.95	57.92

38 Bis(2-Chloroethoxy)methane CAS #: 111-91-1									
5.293	5.292	(0.957)	93	251843	31.3266	1550	80.00-	120.00	100.00
5.293	5.292	(0.957)	95	81378			2.58-	62.58	32.31
5.293	5.293	(0.957)	123	31996			0.00-	43.21	12.70

40 Benzoic Acid CAS #: 65-85-0									
5.339	5.315	(0.965)	122	233114	59.4555	2940	80.00-	120.00	100.00
5.338	5.314	(0.965)	105	332346			114.37-	174.37	142.57
5.338	5.313	(0.965)	77	332317			116.31-	176.31	142.56

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
41 2,4-Dichlorophenol CAS #: 120-83-2									
5.405	5.403	(0.977)	162	199992	30.5684	1510	80.00- 120.00	100.00	
5.405	5.403	(0.977)	164	132923			35.27- 95.27	66.46	
5.405	5.402	(0.977)	98	66970			4.59- 64.59	33.49	

42 1,2,4-Trichlorobenzene CAS #: 120-82-1									
5.475	5.475	(0.990)	180	235477	28.7866	1420	80.00- 120.00	100.00	
5.475	5.475	(0.990)	182	230014			68.04- 128.04	97.68	
5.475	5.475	(0.990)	145	69088			0.00- 58.20	29.34	

* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.530	5.530	(1.000)	136	731526	40.0000		80.00- 120.00	100.00	
5.529	5.529	(1.000)	68	38973			0.00- 35.11	5.33	

44 Naphthalene CAS #: 91-20-3									
5.550	5.550	(1.004)	128	575939	30.6800	1520	80.00- 120.00	100.00	
5.550	5.549	(1.004)	129	64249			0.00- 41.41	11.16	
5.550	5.550	(1.004)	127	77689			0.00- 43.27	13.49	

45 4-Chloroaniline CAS #: 106-47-8									
5.604	5.602	(1.013)	127	228758	28.9801	1430	80.00- 120.00	100.00	
5.604	5.602	(1.013)	129	72428			1.79- 61.79	31.66	
5.603	5.601	(1.013)	65	112938			14.43- 74.43	49.37	

48 Hexachlorobutadiene CAS #: 87-68-3									
5.667	5.666	(1.025)	225	206337	33.0212	1630	80.00- 120.00	100.00	
5.667	5.666	(1.025)	223	129716			30.70- 90.70	62.87	
5.667	5.667	(1.025)	227	132432			35.41- 95.41	64.18	

51 4-Chloro-3-methylphenol CAS #: 59-50-7									
6.079	6.073	(1.099)	107	213175	33.8499	1670	80.00- 120.00	100.00	
6.079	6.073	(1.099)	144	50530			0.00- 54.95	23.70	
6.079	6.073	(1.099)	142	154010			44.93- 104.93	72.25	

53 2-Methylnaphthalene CAS #: 91-57-6									
6.210	6.209	(1.123)	142	421005	30.8219	1520	80.00- 120.00	100.00	
6.210	6.209	(1.123)	141	366916			56.35- 116.35	87.15	

54 1-Methylnaphthalene CAS #: 90-12-0									
6.306	6.305	(1.140)	142	396521	31.9521	1580	80.00- 120.00	100.00	
6.306	6.305	(1.140)	141	368326			60.75- 120.75	92.89	

55 Hexachlorocyclopentadiene CAS #: 77-47-4									
6.366	6.365	(0.881)	237	171612	21.5302	1060	80.00- 120.00	100.00	
6.366	6.365	(0.881)	235	109327			30.80- 90.80	63.71	
6.367	6.366	(0.881)	272	23698			0.00- 43.35	13.81	

57 2,4,6-Trichlorophenol CAS #: 88-06-2									
6.490	6.488	(0.898)	196	193593	30.7933	1520	80.00- 120.00	100.00	
6.490	6.489	(0.898)	198	183530			64.64- 124.64	94.80	
6.490	6.488	(0.898)	200	59633			0.82- 60.82	30.80	

58 2,4,5-Trichlorophenol CAS #: 95-95-4									
6.533	6.529	(0.904)	196	211753	36.4363	1800	80.00- 120.00	100.00	

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
58 2,4,5-Trichlorophenol (continued)									
6.533	6.529	(0.904)	198	204723			64.80- 124.80	96.68	
6.532	6.528	(0.904)	97	117796			23.96- 83.96	55.63	

\$ 59 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.565	6.565	(0.909)	172	778569	39.8269	1970	80.00- 120.00	100.00	
6.565	6.565	(0.909)	171	267571			5.09- 65.09	34.37	

62 2-Chloronaphthalene CAS #: 91-58-7									
6.682	6.682	(0.925)	162	464824	31.3912	1550	80.00- 120.00	100.00	
6.683	6.682	(0.925)	164	160551			3.81- 63.81	34.54	
6.682	6.682	(0.925)	127	198089			8.29- 68.29	42.62	

63 2-Nitroaniline CAS #: 88-74-4									
6.789	6.788	(0.940)	65	195502	38.3199	1900	80.00- 120.00	100.00	
6.789	6.789	(0.940)	92	119469			30.60- 90.60	61.11	
6.789	6.789	(0.940)	138	160288			51.29- 111.29	81.99	

65 Dimethylphthalate CAS #: 131-11-3									
6.964	6.962	(0.964)	163	612786	36.0204	1780	80.00- 120.00	100.00	
6.964	6.962	(0.964)	194	32846			0.00- 36.26	5.36	
6.963	6.962	(0.964)	164	64887			0.00- 40.55	10.59	

68 Acenaphthylene CAS #: 208-96-8									
7.086	7.086	(0.981)	152	748152	34.1522	1690	80.00- 120.00	100.00	
7.086	7.086	(0.981)	151	150735			0.00- 50.02	20.15	
7.087	7.086	(0.981)	153	99893			0.00- 43.48	13.35	

67 2,6-Dinitrotoluene CAS #: 606-20-2									
7.022	7.023	(0.972)	165	130053	33.8177	1670	80.00- 120.00	100.00	
7.022	7.022	(0.972)	89	112267			51.03- 111.03	86.32	
7.021	7.022	(0.972)	63	107034			51.61- 111.61	82.30	

69 3-Nitroaniline CAS #: 99-09-2									
7.192	7.192	(0.995)	138	118443	34.6737	1720	80.00- 120.00	100.00	
7.192	7.192	(0.995)	108	13718			0.00- 41.36	11.58	
7.191	7.192	(0.995)	92	160078			105.42- 165.42	135.15	

* 70 Acenaphthene-d10 CAS #: 15067-26-2									
7.225	7.225	(1.000)	164	505188	40.0000		80.00- 120.00	100.00	
7.225	7.225	(1.000)	162	491713			65.82- 125.82	97.33	
7.225	7.225	(1.000)	160	222229			14.18- 74.18	43.99	

71 Acenaphthene CAS #: 83-32-9									
7.257	7.257	(1.004)	154	410496	30.9016	1530	80.00- 120.00	100.00	
7.257	7.257	(1.004)	153	467155			78.99- 138.99	113.80	
7.257	7.257	(1.004)	152	225192			23.70- 83.70	54.86	

72 2,4-Dinitrophenol CAS #: 51-28-5									
7.293	7.290	(1.009)	184	168979	63.7373	3150	80.00- 120.00	100.00	
7.292	7.289	(1.009)	63	137367			47.51- 107.51	81.29	
7.292	7.291	(1.009)	154	124353			40.30- 100.30	73.59	

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	
74 4-Nitrophenol CAS #: 100-02-7									
7.385	7.380	(1.022)	109	150383	40.4978	2000	80.00- 120.00	100.00	
7.385	7.380	(1.022)	139	85436			35.02- 95.02	56.81	
7.384	7.379	(1.022)	65	129474			65.80- 125.80	86.10	

75 Dibenzofuran CAS #: 132-64-9									
7.425	7.425	(1.028)	168	742158	34.3314	1700	80.00- 120.00	100.00	
7.425	7.425	(1.028)	139	313352			11.80- 71.80	42.22	

76 2,4-Dinitrotoluene CAS #: 121-14-2									
7.418	7.417	(1.027)	165	189586	35.1559	1740	80.00- 120.00	100.00	
7.419	7.418	(1.027)	63	178564			63.34- 123.34	94.19	
7.418	7.416	(1.027)	89	197540			77.40- 137.40	104.20	

80 Diethylphthalate CAS #: 84-66-2									
7.651	7.651	(1.059)	149	577010	36.7381	1820	80.00- 120.00	100.00	
7.652	7.651	(1.059)	177	138292			0.00- 53.81	23.97	
7.651	7.651	(1.059)	150	73934			0.00- 42.20	12.81	

81 Fluorene CAS #: 86-73-7									
7.760	7.760	(1.074)	166	645769	34.4857	1710	80.00- 120.00	100.00	
7.760	7.760	(1.074)	165	629973			64.47- 124.47	97.55	
7.760	7.760	(1.074)	167	104947			0.00- 43.90	16.25	

82 4-Chlorophenyl-phenylether CAS #: 7005-72-3									
7.758	7.759	(1.074)	204	393347	35.0371	1730	80.00- 120.00	100.00	
7.758	7.758	(1.074)	206	131093			4.13- 64.13	33.33	
7.757	7.758	(1.074)	141	218342			24.71- 84.71	55.51	

84 4-Nitroaniline CAS #: 100-01-6									
7.794	7.795	(1.079)	138	114281	38.6454	1910	80.00- 120.00	100.00	
7.794	7.794	(1.079)	92	79227			40.88- 100.88	69.33	
7.794	7.794	(1.079)	108	200213			150.86- 210.86	175.19	

85 4,6-Dinitro-2-methylphenol CAS #: 534-52-1									
7.817	7.818	(0.901)	198	125314	30.0722	1490	80.00- 120.00	100.00	
7.815	7.816	(0.900)	51	41270			8.91- 68.91	32.93	
7.817	7.817	(0.901)	105	46699			6.21- 66.21	37.27	

86 N-Nitrosodiphenylamine CAS #: 86-30-6									
7.877	7.878	(0.907)	169	421695	33.3172	1650	80.00- 120.00	100.00	
7.878	7.878	(0.907)	168	284463			35.00- 95.00	67.46	
7.877	7.878	(0.907)	167	153333			6.19- 66.19	36.36	

87 1,2-Diphenylhydrazine CAS #: 122-66-7									
7.913	7.914	(1.095)	77	711683	39.3822	1950	80.00- 120.00	100.00	
7.914	7.915	(1.095)	105	87063			0.00- 42.14	12.23	
7.915	7.916	(1.095)	182	173677			0.00- 54.63	24.40	

\$ 88 2,4,6-Tribromophenol (SURR) CAS #: 118-79-6									
8.002	8.001	(1.107)	330	334529	94.7758	4690	80.00- 120.00	100.00	
8.002	8.001	(1.107)	332	320140			67.74- 127.74	95.70	
8.000	7.999	(1.107)	141	130753			11.22- 71.22	39.09	

CONCENTRATIONS								
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
93 4-Bromophenylphenylether					CAS #: 101-55-3			
8.237	8.237	(0.949)	248	237810	32.3914	1600	80.00- 120.00	100.00
8.237	8.237	(0.949)	250	244868			67.62- 127.62	102.97
8.236	8.236	(0.949)	141	159607			34.48- 94.48	67.12

94 Hexachlorobenzene					CAS #: 118-74-1			
8.305	8.305	(0.957)	284	259974	30.7963	1520	80.00- 120.00	100.00
8.302	8.304	(0.956)	142	80032			2.63- 62.63	30.78
8.304	8.305	(0.957)	249	81756			0.76- 60.76	31.45

96 Pentachlorophenol					CAS #: 87-86-5			
8.504	8.501	(0.980)	266	193217	38.9433	1930	80.00- 120.00	100.00
8.504	8.501	(0.980)	264	125978			30.87- 90.87	65.20
8.504	8.501	(0.980)	268	122324			33.68- 93.68	63.31

* 100 Phenanthrene-d10					CAS #: 1517-22-2			
8.681	8.679	(1.000)	188	1004860	40.0000		80.00- 120.00	100.00
8.680	8.678	(1.000)	94	59991			0.00- 35.53	5.97
8.679	8.678	(1.000)	80	79131			0.00- 37.34	7.87

101 Phenanthrene					CAS #: 85-01-8			
8.704	8.703	(1.003)	178	866527	33.4745	1660	80.00- 120.00	100.00
8.704	8.703	(1.003)	179	135513			0.00- 45.95	15.64
8.704	8.703	(1.003)	176	183494			0.00- 50.04	21.18

103 Anthracene					CAS #: 120-12-7			
8.754	8.752	(1.008)	178	877718	34.0421	1680	80.00- 120.00	100.00
8.753	8.752	(1.008)	179	133591			0.00- 45.50	15.22
8.754	8.752	(1.008)	176	169182			0.00- 49.79	19.28

104 Carbazole					CAS #: 86-74-8			
8.916	8.914	(1.027)	167	829896	38.6386	1910	80.00- 120.00	100.00
8.916	8.914	(1.027)	139	117026			0.00- 43.98	14.10
8.915	8.914	(1.027)	83	50322			0.00- 35.56	6.06

105 Di-n-butylphthalate					CAS #: 84-74-2			
9.249	9.249	(1.066)	149	951069	35.0647	1740	80.00- 120.00	100.00
9.249	9.249	(1.066)	150	92381			0.00- 39.28	9.71
9.249	9.248	(1.066)	104	77801			0.00- 38.47	8.18

109 Fluoranthene					CAS #: 206-44-0			
9.871	9.870	(1.137)	202	1067016	35.9452	1780	80.00- 120.00	100.00
9.869	9.869	(1.137)	101	63611			0.00- 36.15	5.96
9.871	9.870	(1.137)	203	199324			0.00- 48.78	18.68

111 Pyrene					CAS #: 129-00-0			
10.094	10.093	(0.895)	202	1106198	32.0915	1590	80.00- 120.00	100.00
10.093	10.093	(0.895)	200	246462			0.00- 52.14	22.28
10.093	10.093	(0.895)	203	202654			0.00- 48.92	18.32

\$ 112 Terphenyl-d14 (SURR)					CAS #: 1718-51-0			
10.242	10.242	(0.908)	244	1247441	38.1132	1880	80.00- 120.00	100.00
10.241	10.241	(0.908)	122	78468			0.00- 36.17	6.29

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO	
					ON-COL (ug/ml)	FINAL (ug/kg)			
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 112 Terphenyl-d14 (SURR) (continued)									
10.242	10.242	(0.908)	212	100949			0.00-	38.02	8.09

118 Butylbenzylphthalate					CAS #: 85-68-7				
10.720	10.720	(0.951)	149	512790	34.3440	1700	80.00-	120.00	100.00
10.719	10.719	(0.950)	91	433758			56.77-	116.77	84.59
10.720	10.721	(0.951)	206	129512			0.00-	56.97	25.26

120 Benzo[a]anthracene					CAS #: 56-55-3				
11.268	11.267	(0.999)	228	1481865	34.0202	1680	80.00-	120.00	100.00
11.268	11.267	(0.999)	229	306500			0.00-	50.53	20.68
11.268	11.267	(0.999)	226	422069			0.00-	57.40	28.48

* 121 Chrysene-d12					CAS #: 1719-03-5				
11.278	11.278	(1.000)	240	1734932	40.0000		80.00-	120.00	100.00
11.276	11.276	(1.000)	120	96639			0.00-	35.66	5.57
11.277	11.278	(1.000)	236	473217			0.00-	56.55	27.28

123 Chrysene					CAS #: 218-01-9				
11.303	11.303	(1.002)	228	1223132	32.0339	1580	80.00-	120.00	100.00
11.303	11.304	(1.002)	226	366988			1.27-	61.27	30.00
11.303	11.304	(1.002)	229	247311			0.00-	51.17	20.22

124 Bis-2-Ethylhexylphthalate					CAS #: 117-81-7				
11.276	11.274	(1.000)	149	1667897	64.6285	3200	80.00-	120.00	100.00(R)
11.276	11.275	(1.000)	167	528570			1.60-	61.60	31.69
11.277	11.276	(1.000)	279	157771			0.00-	39.61	9.46

125 Di-n-octylphthalate					CAS #: 117-84-0				
11.876	11.876	(0.942)	149	1152066	38.9253	1930	80.00-	120.00	100.00
11.877	11.876	(0.942)	167	18595			0.00-	31.69	1.61
11.876	11.875	(0.942)	43	95828			0.00-	38.46	8.32

127 Benzo[b]fluoranthene					CAS #: 205-99-2				
12.263	12.261	(0.973)	252	1523236	41.7283	2060	80.00-	120.00	100.00
12.263	12.261	(0.973)	253	370083			0.00-	52.06	24.30
12.260	12.260	(0.973)	125	67624			0.00-	34.21	4.44

128 Benzo[k]fluoranthene					CAS #: 207-08-9				
12.288	12.286	(0.975)	252	1326007	36.1524	1790	80.00-	120.00	100.00
12.288	12.286	(0.975)	253	295869			0.00-	53.92	22.31
12.287	12.285	(0.975)	125	60312			0.00-	34.88	4.55

129 Benzo[a]pyrene					CAS #: 50-32-8				
12.553	12.551	(0.996)	252	1296445	36.3535	1800	80.00-	120.00	100.00
12.553	12.551	(0.996)	253	287845			0.00-	52.23	22.20
12.551	12.549	(0.996)	125	61096			0.00-	34.86	4.71

* 130 Perylene-d12					CAS #: 1520-96-3				
12.605	12.603	(1.000)	264	1373514	40.0000		80.00-	120.00	100.00
12.605	12.603	(1.000)	260	335642			0.00-	54.38	24.44
12.605	12.603	(1.000)	265	308806			0.00-	52.89	22.48

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	ON-COL		FINAL	TARGET RANGE	RATIO	
				RESPONSE	(ug/ml)	(ug/kg)			

133 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5				
13.648	13.646	(1.083)	276	1595737	35.9088	1780	80.00- 120.00	100.00	
13.650	13.647	(1.083)	138	169780			0.00- 41.12	10.64	
13.648	13.646	(1.083)	277	419946			0.00- 56.47	26.32	

134 Dibenz[a,h]anthracene					CAS #: 53-70-3				
13.654	13.651	(1.083)	278	1420274	36.5960	1810	80.00- 120.00	100.00	
13.651	13.649	(1.083)	139	90636			0.00- 36.77	6.38	
13.654	13.651	(1.083)	279	339801			0.00- 53.64	23.93	

135 Benzo[g,h,i]perylene					CAS #: 191-24-2				
13.943	13.942	(1.106)	276	1202781	35.4250	1750	80.00- 120.00	100.00	
13.941	13.940	(1.106)	138	97342			0.00- 38.97	8.09	
13.942	13.942	(1.106)	277	294104			0.00- 54.57	24.45	

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Date : 03-MAY-2012 14:27

Client ID: 128825LCS

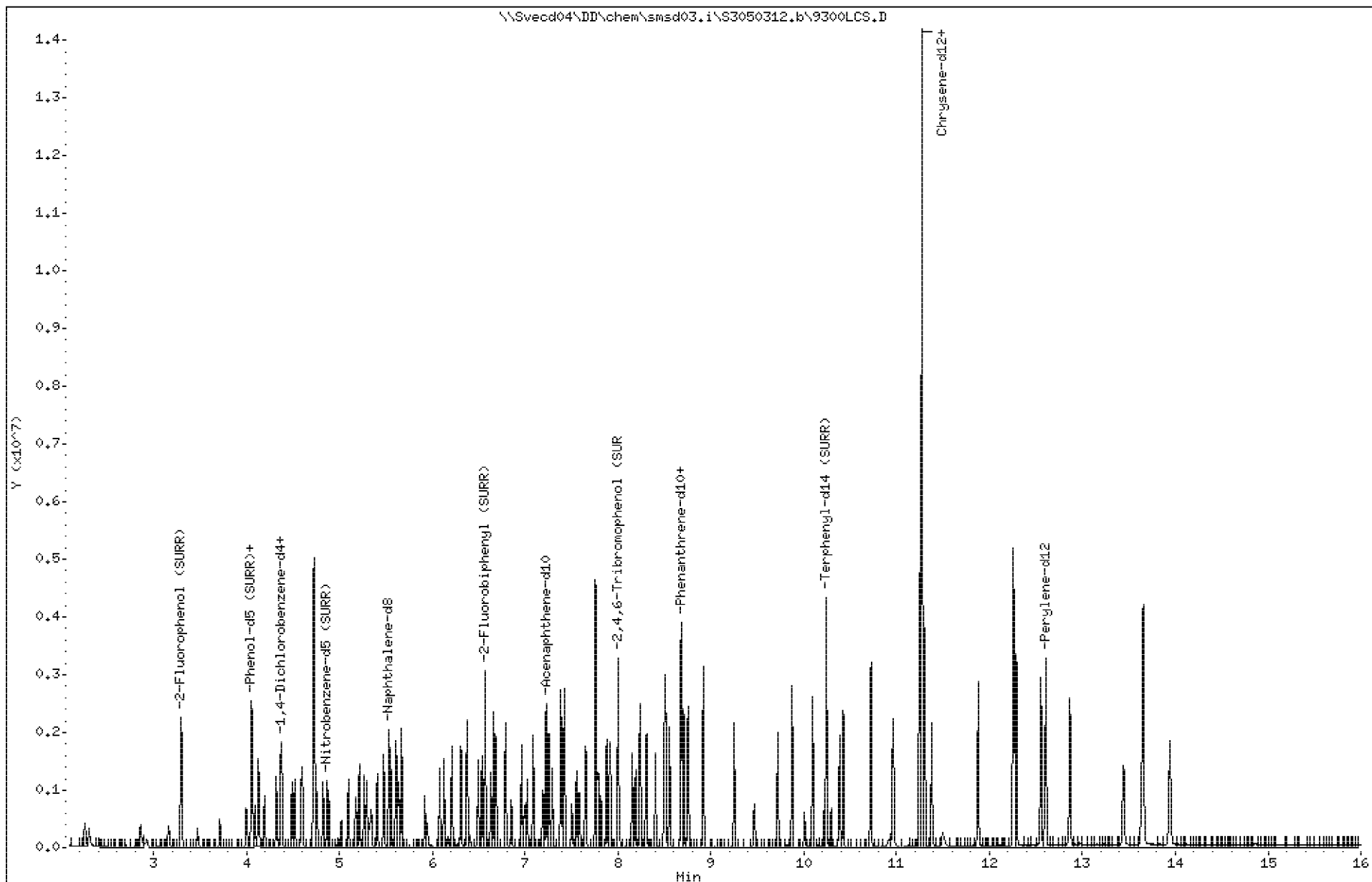
Sample Info: SW128825LCS

Instrument: smsd03.i

Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

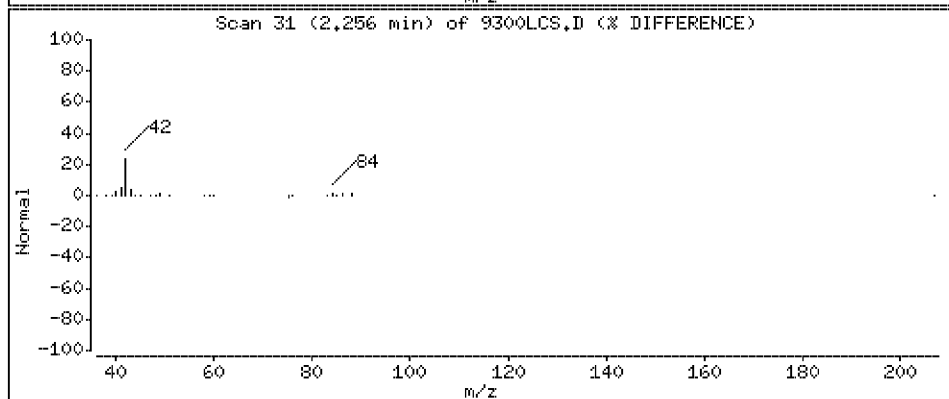
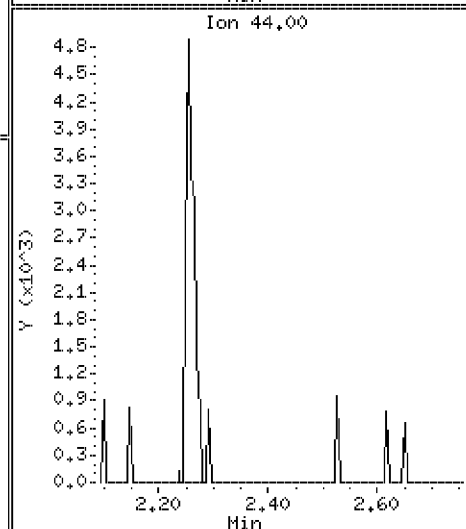
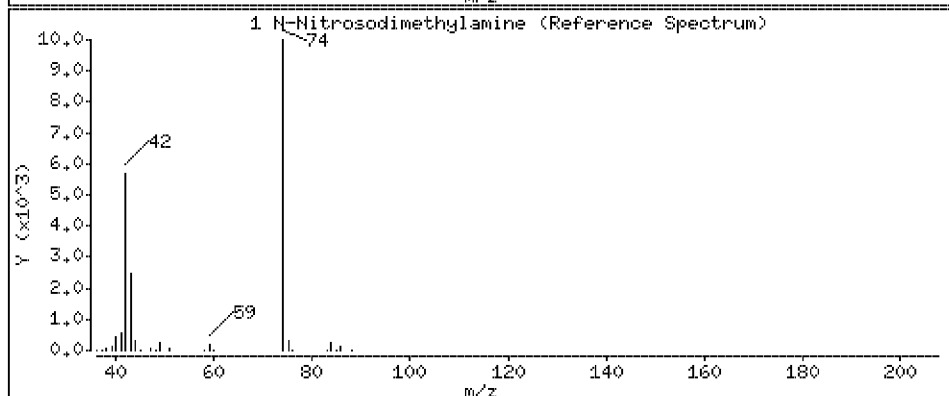
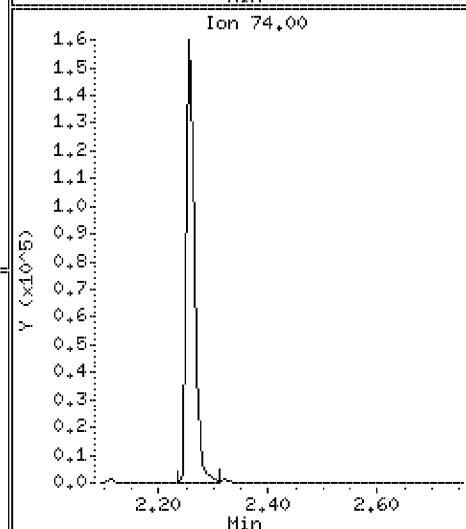
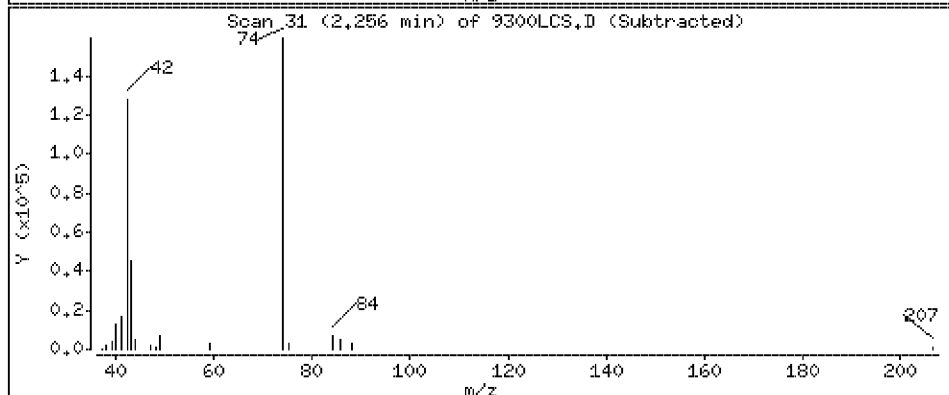
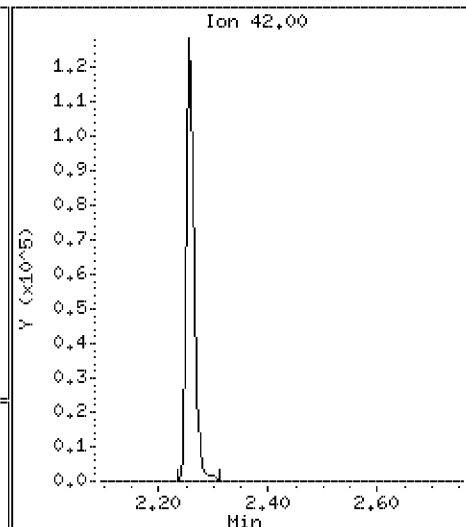
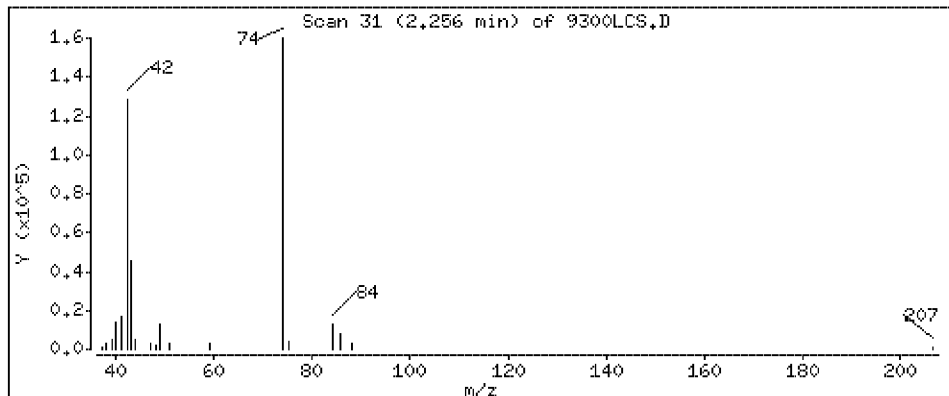
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

1 N-Nitrosodimethylamine

Concentration: 1660 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

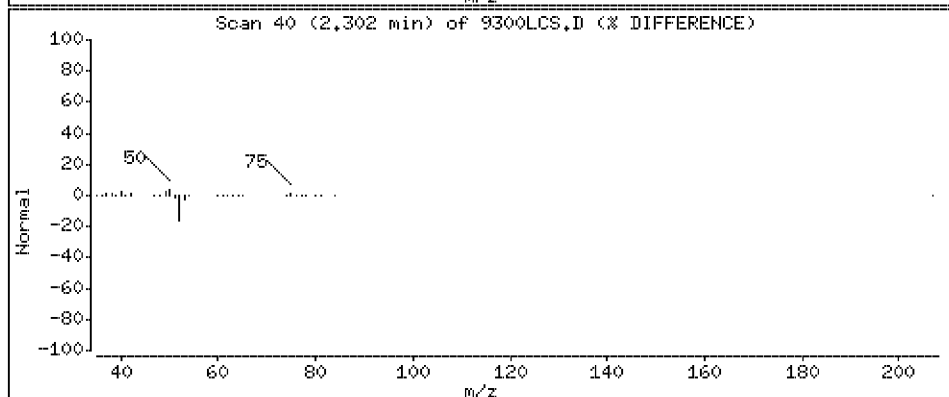
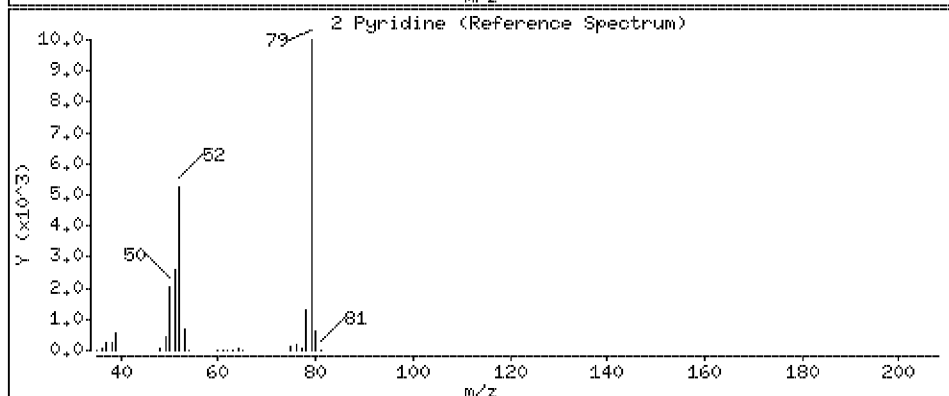
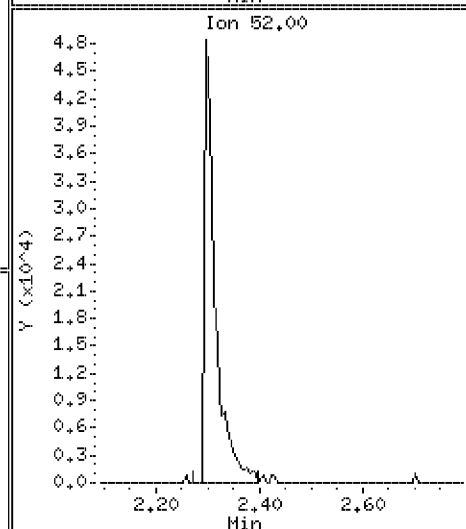
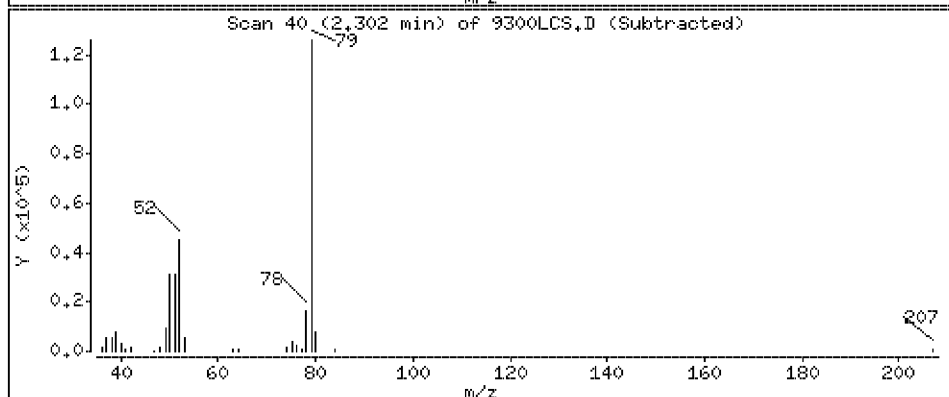
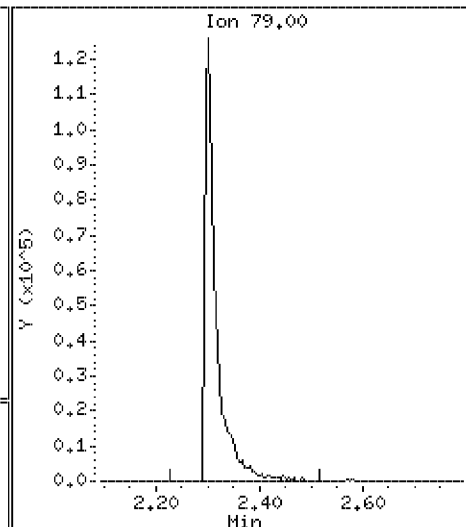
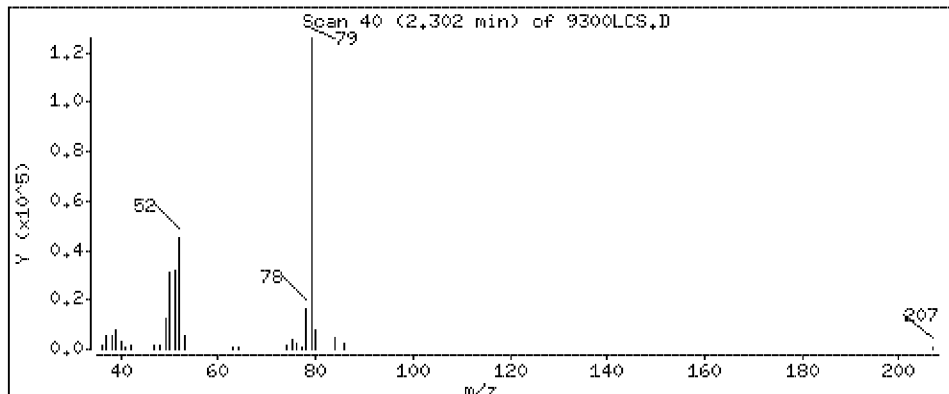
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

2 Pyridine

Concentration: 1070 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

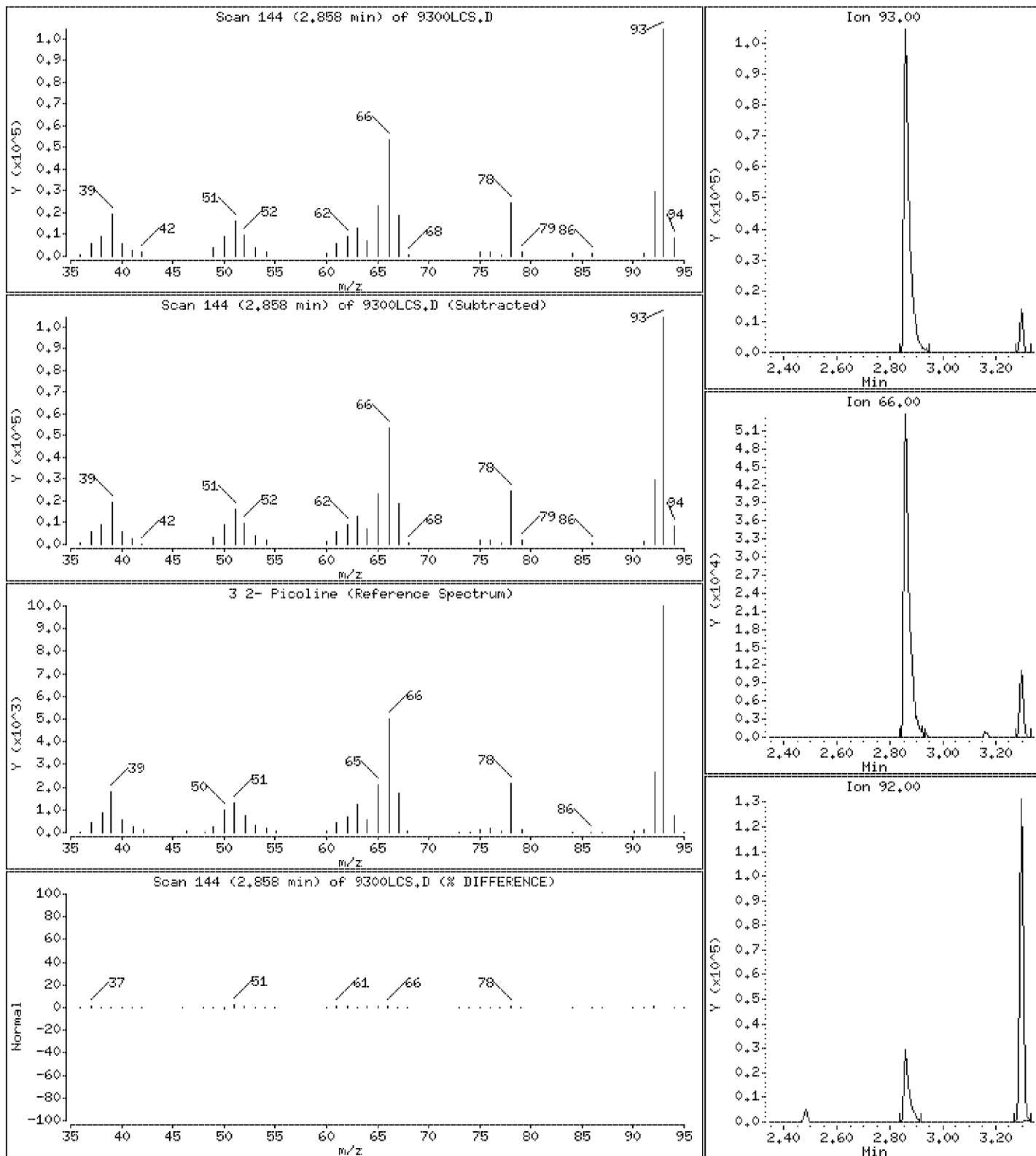
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

3 2- Picoline

Concentration: 904 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

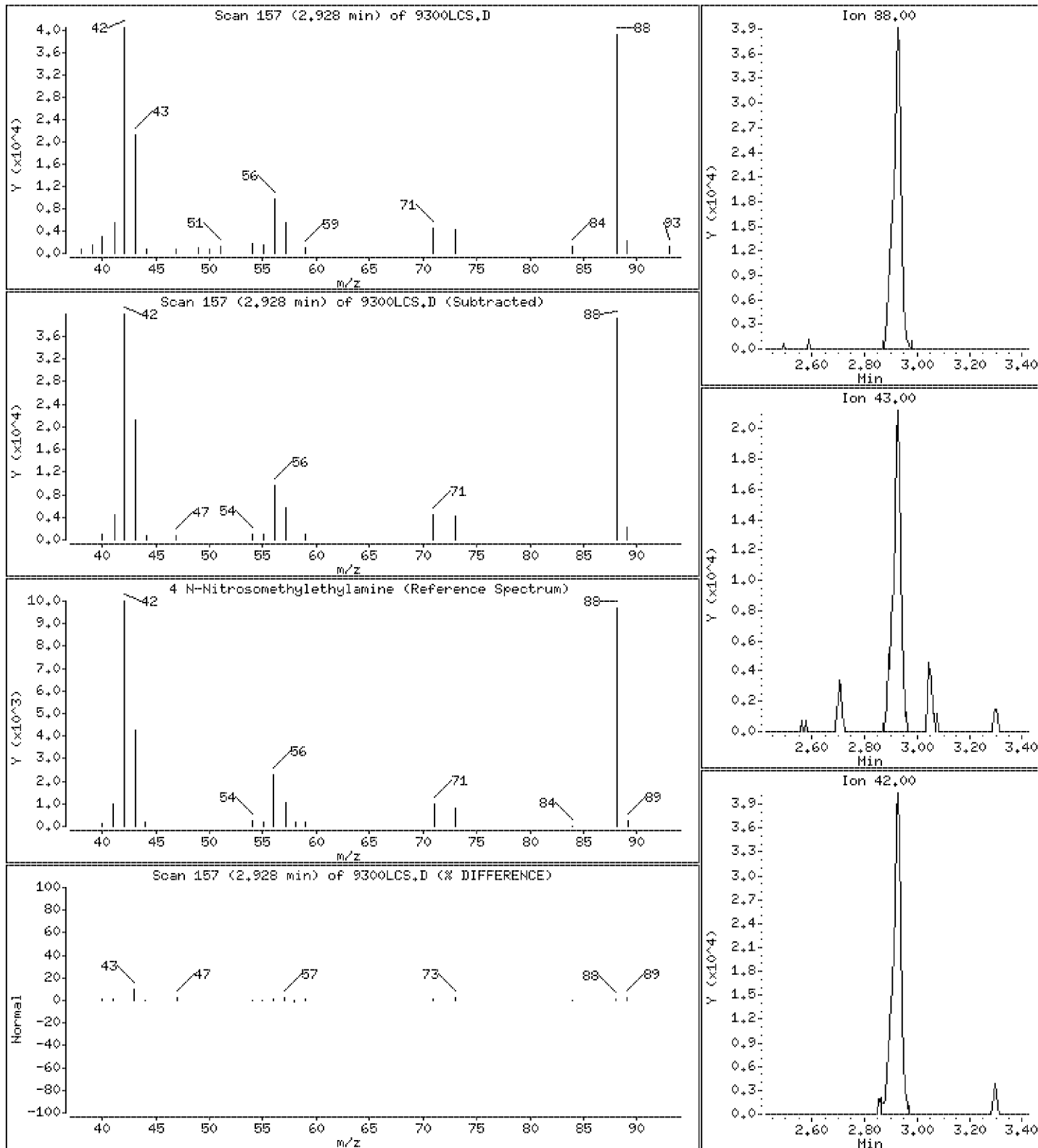
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

4 N-Nitrosomethylethylamine

Concentration: 1140 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

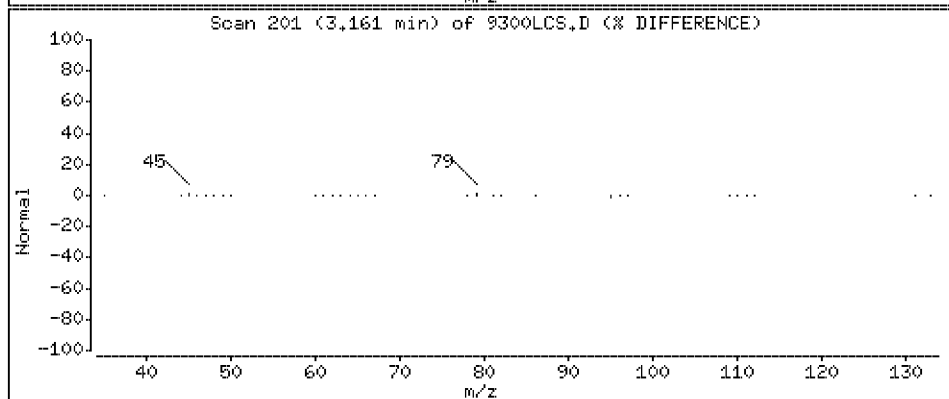
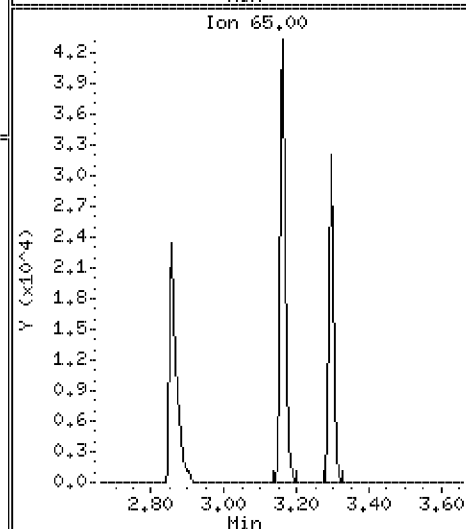
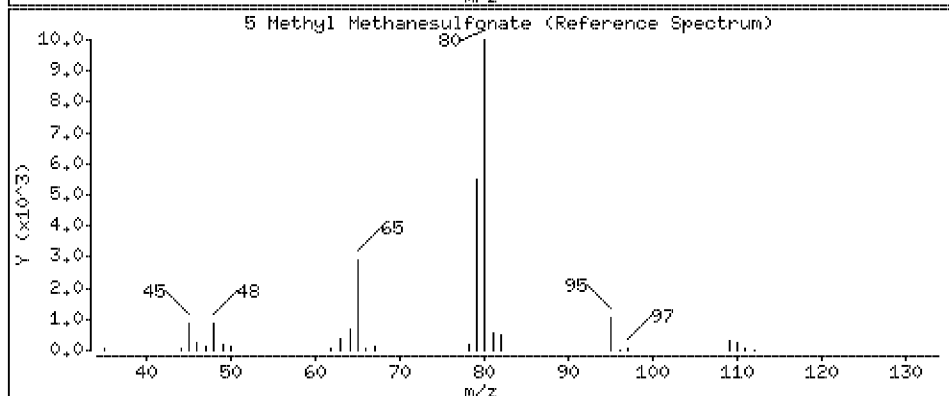
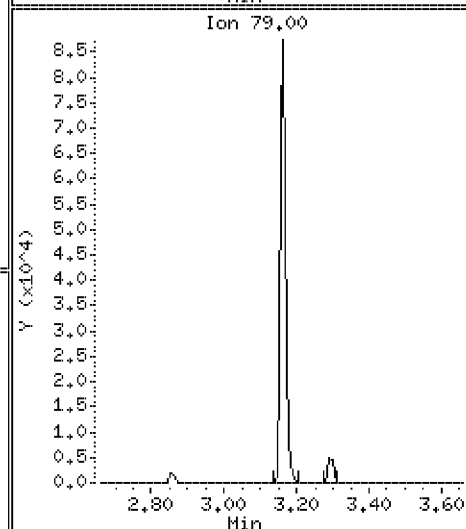
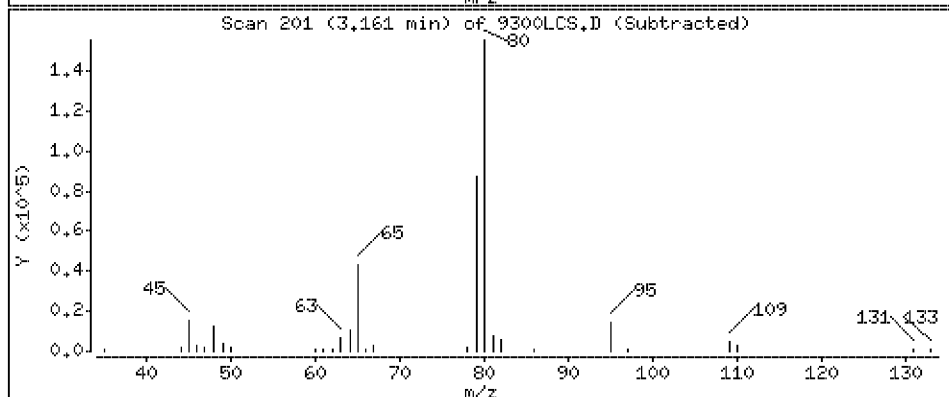
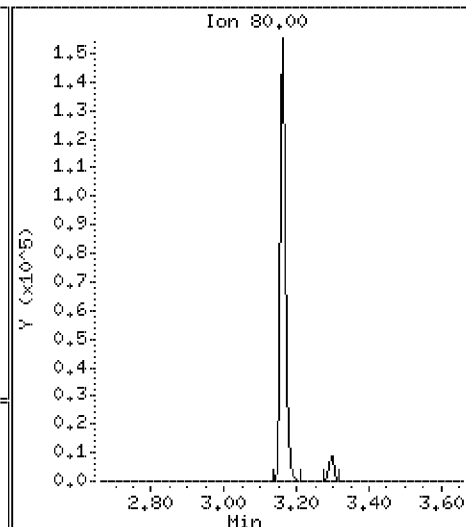
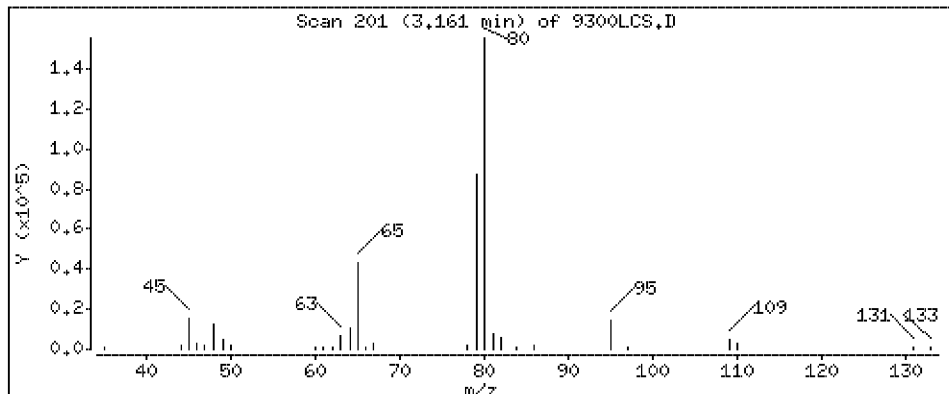
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

5 Methyl Methanesulfonate

Concentration: 1310 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

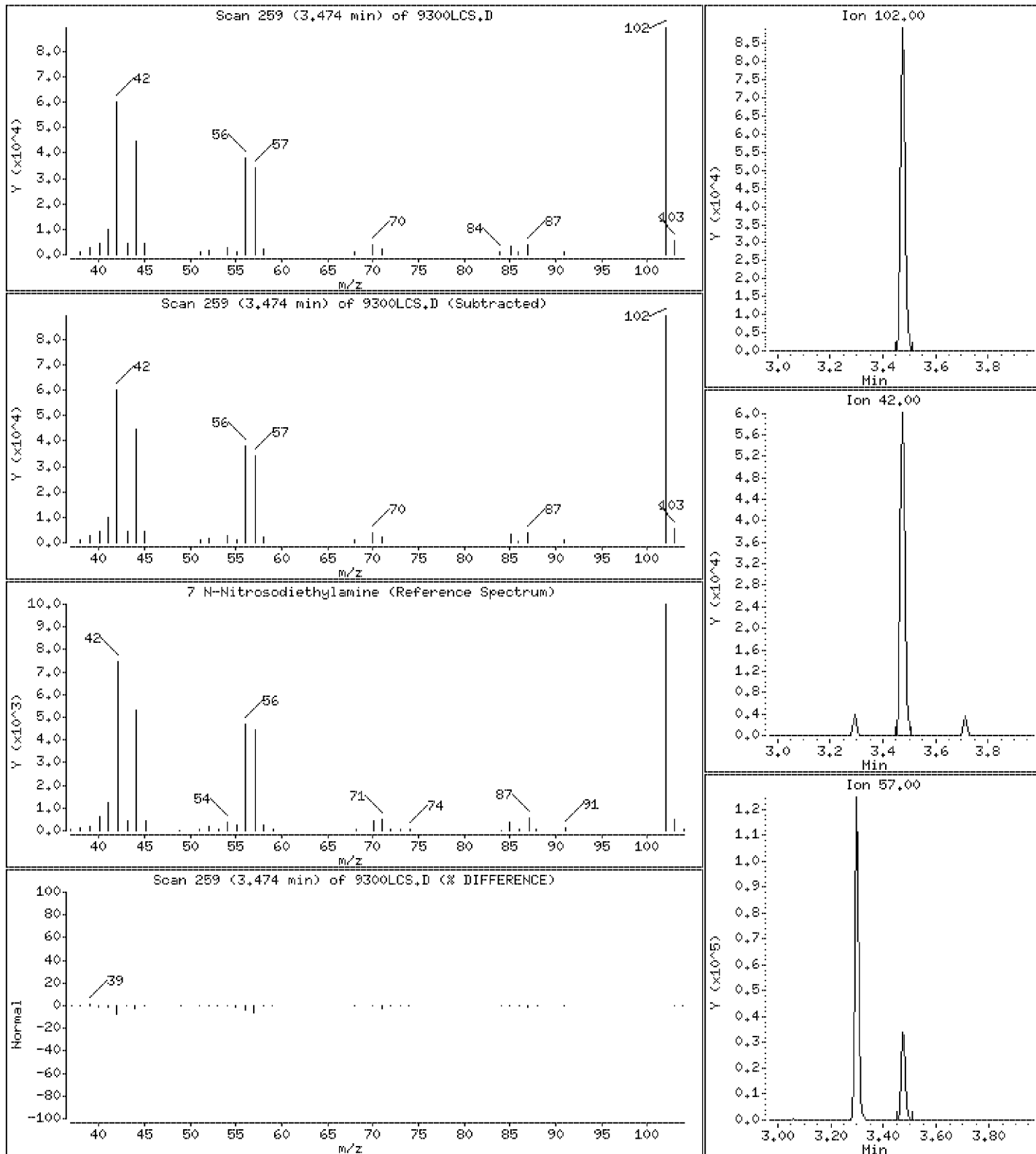
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

7 N-Nitrosodiethylamine

Concentration: 1230 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

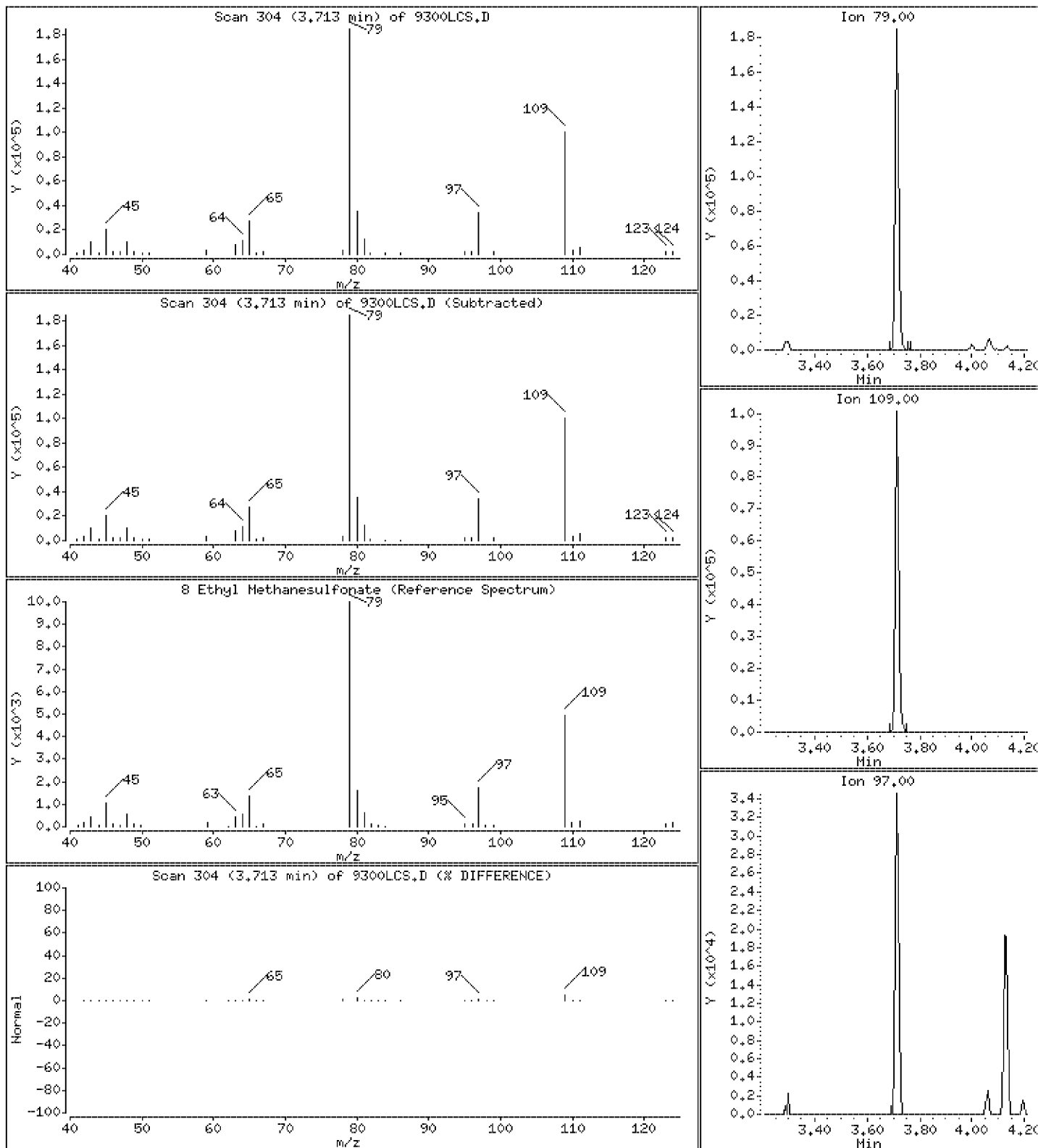
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

8 Ethyl Methanesulfonate

Concentration: 1410 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

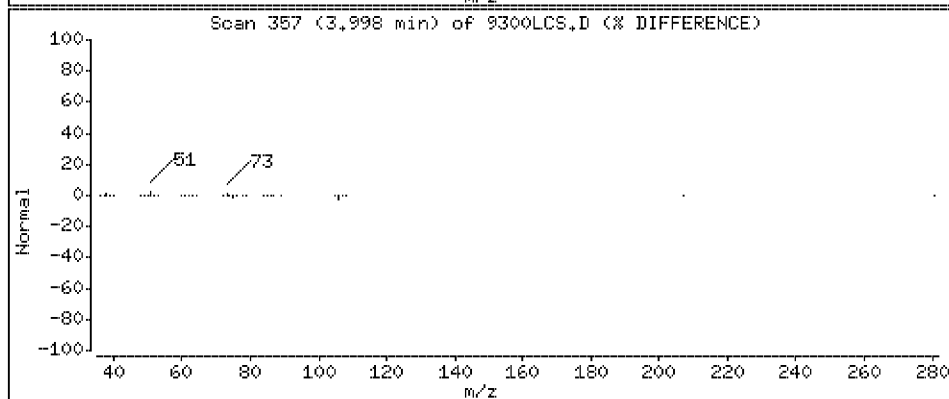
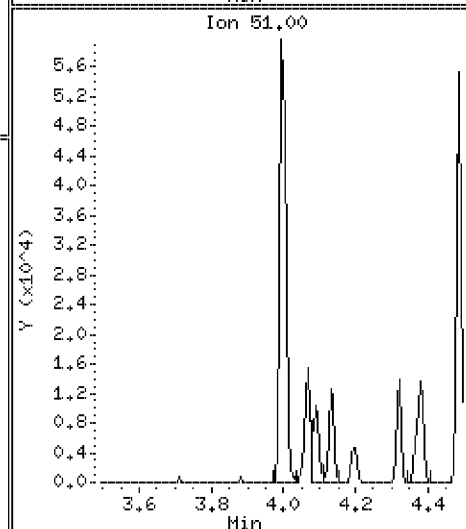
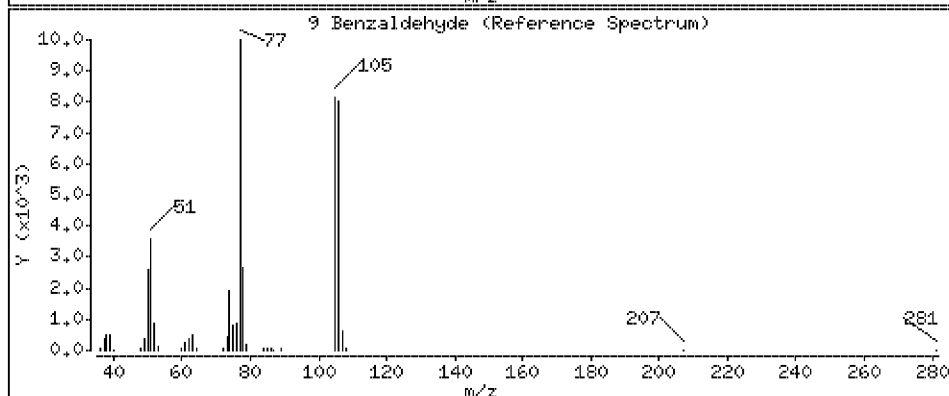
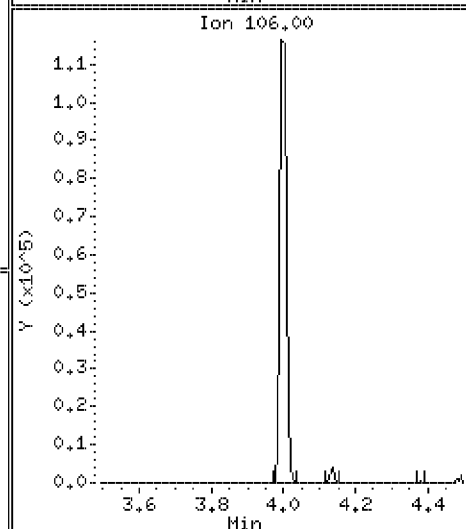
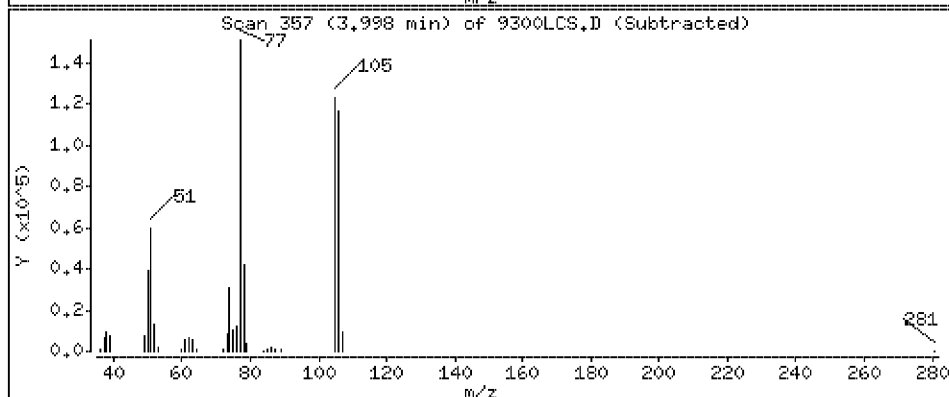
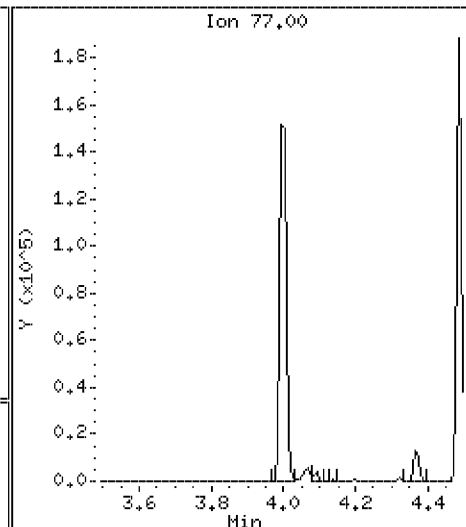
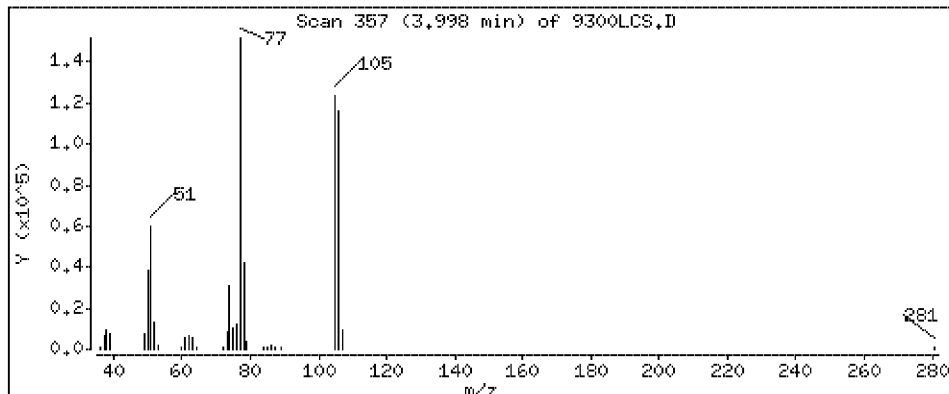
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

9 Benzaldehyde

Concentration: 1110 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

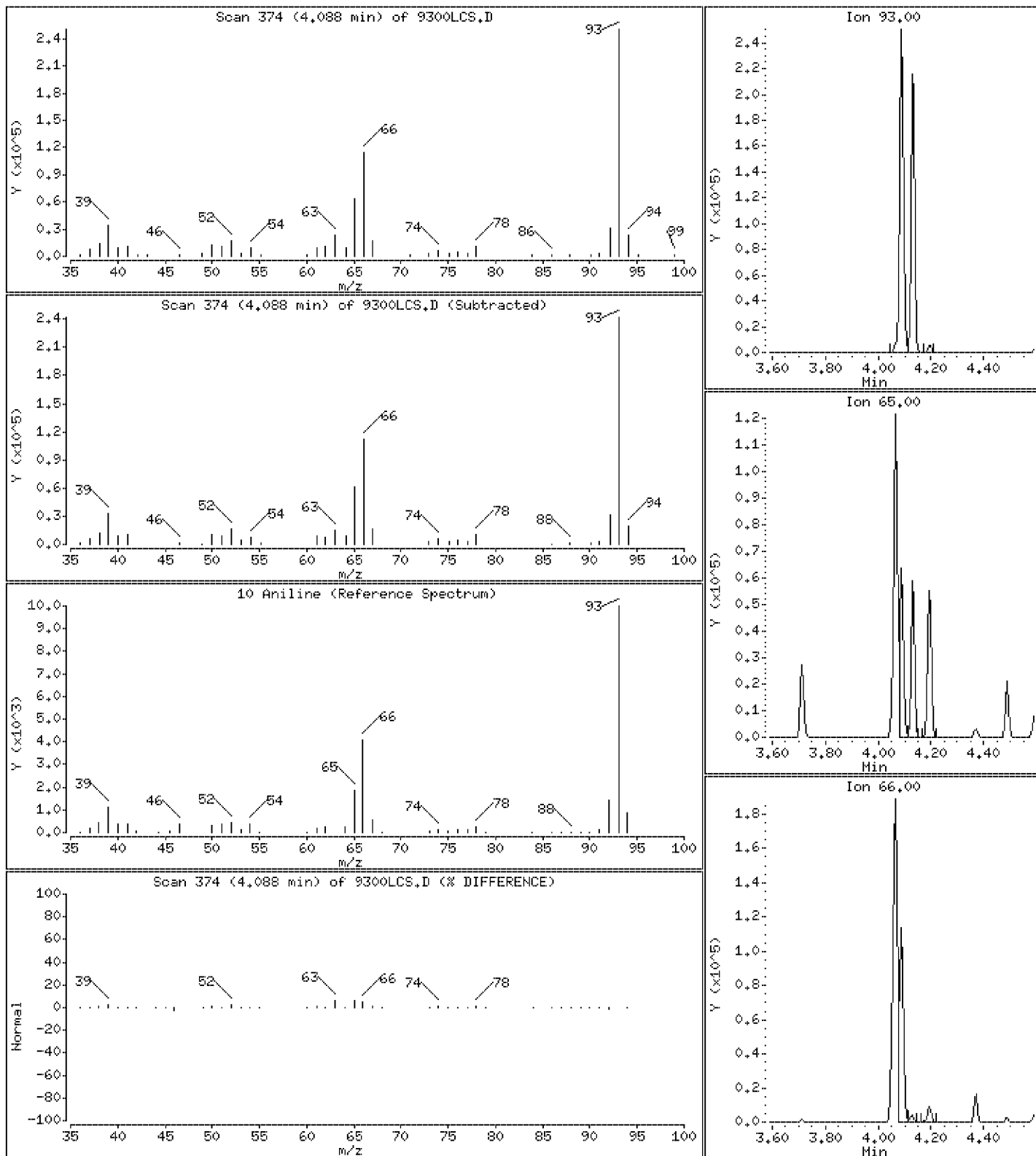
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

10 Aniline

Concentration: 1170 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

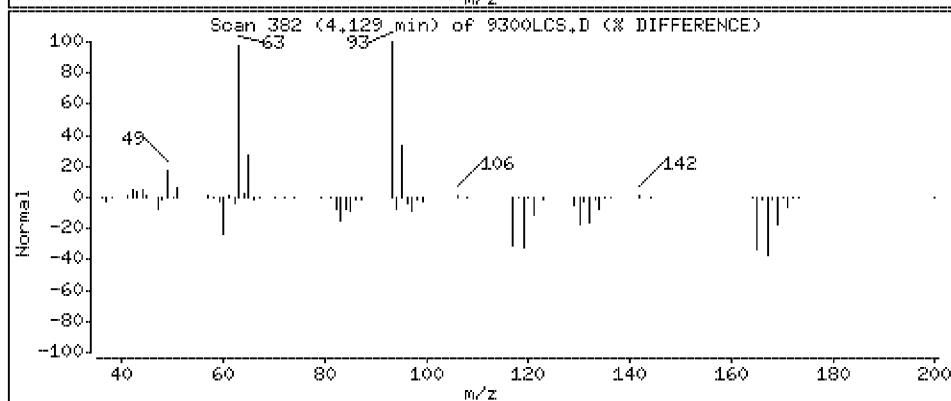
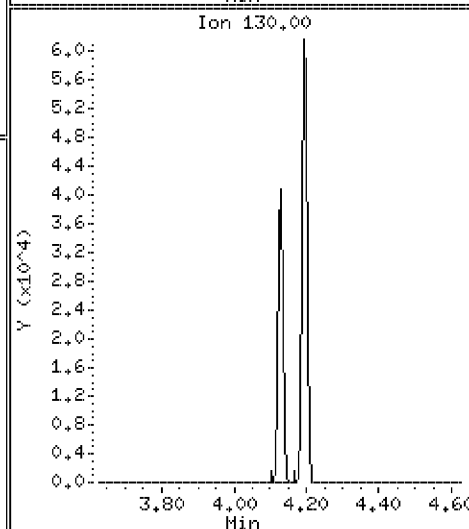
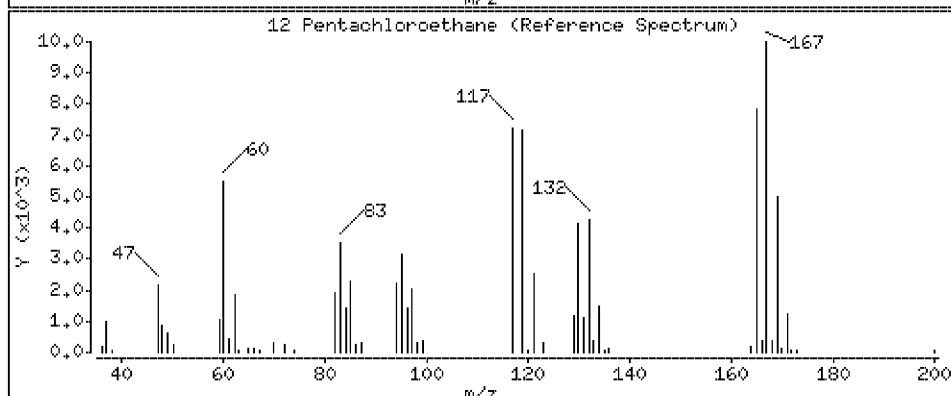
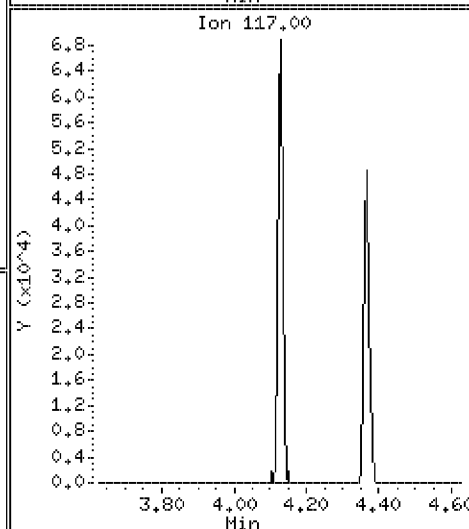
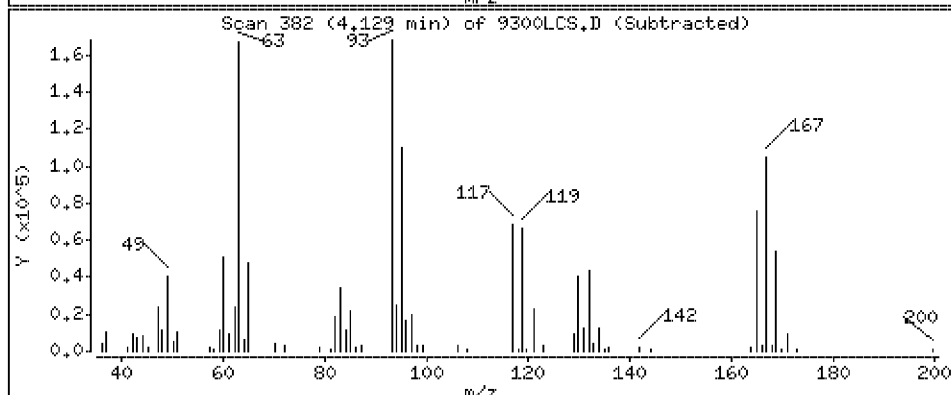
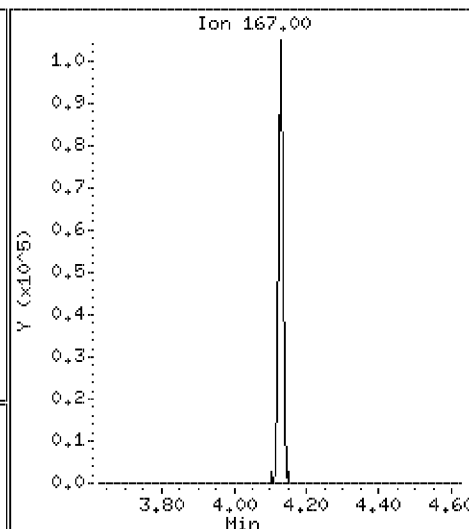
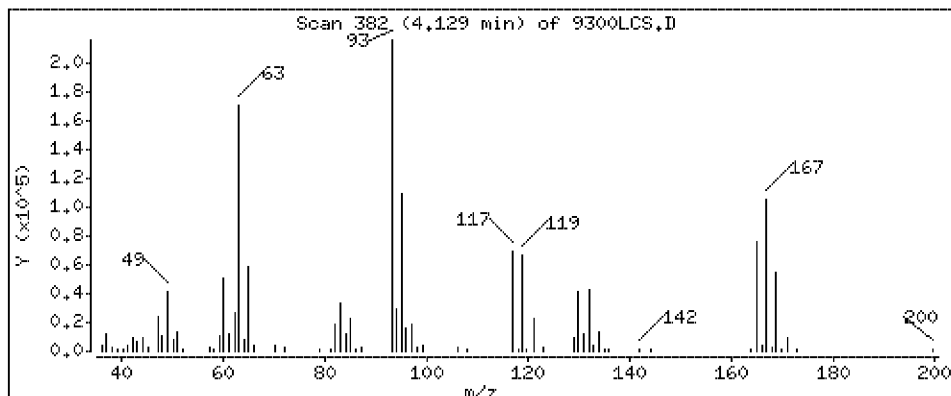
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

12 Pentachloroethane

Concentration: 1290 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

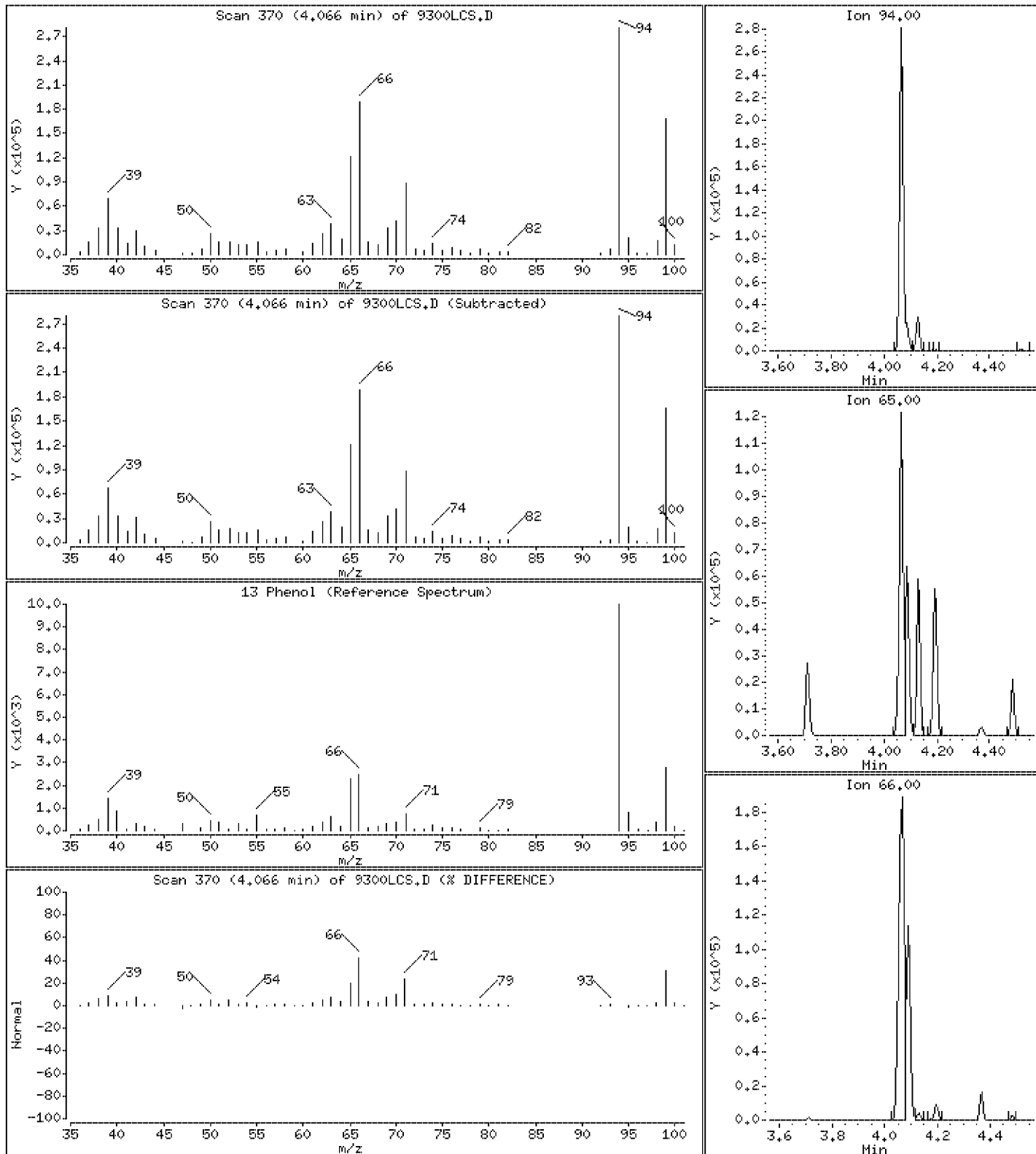
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

13 Phenol

Concentration: 1380 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

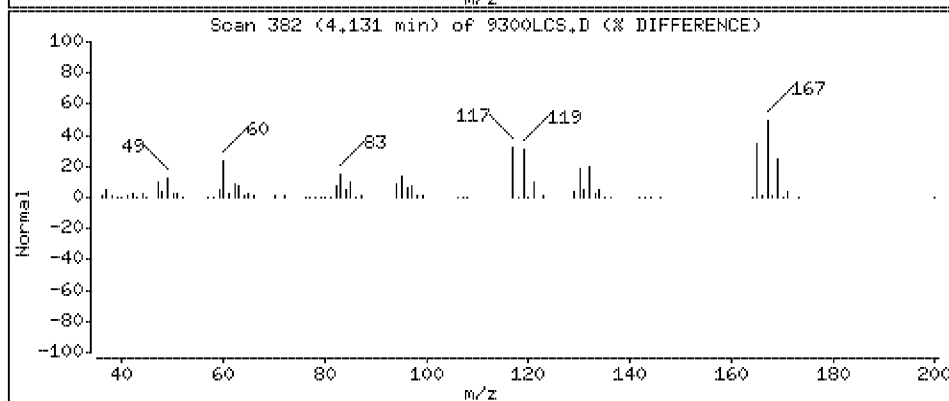
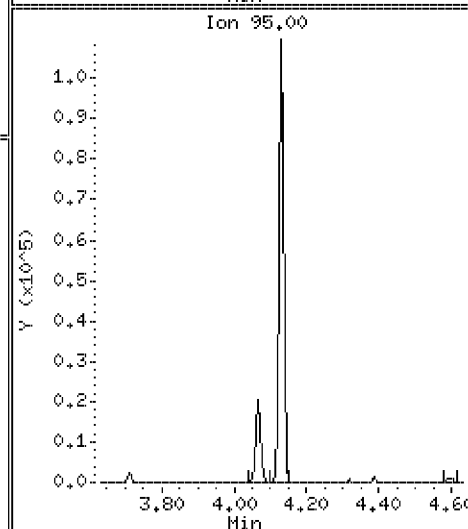
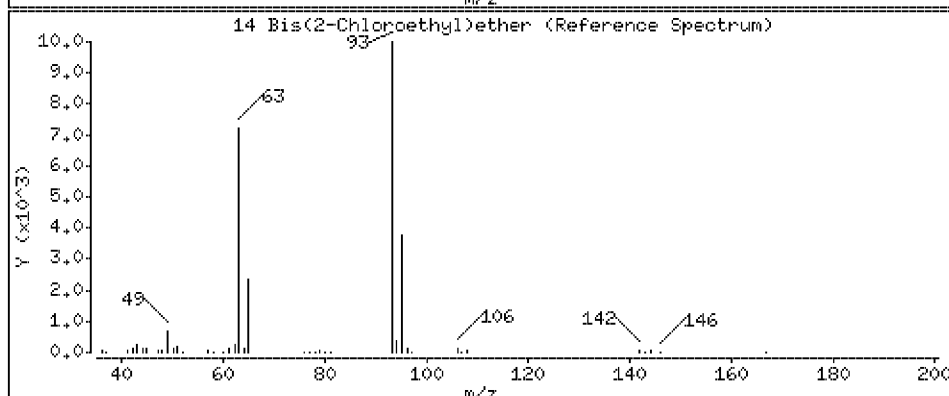
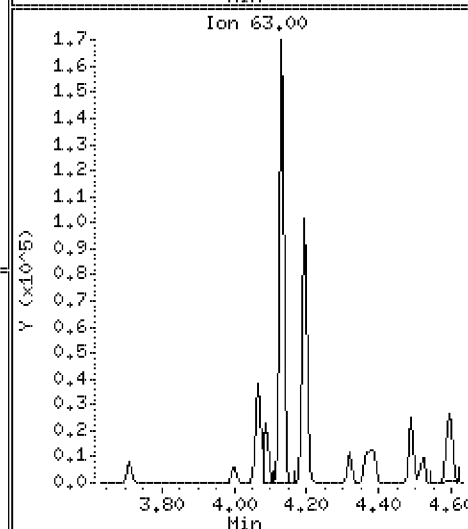
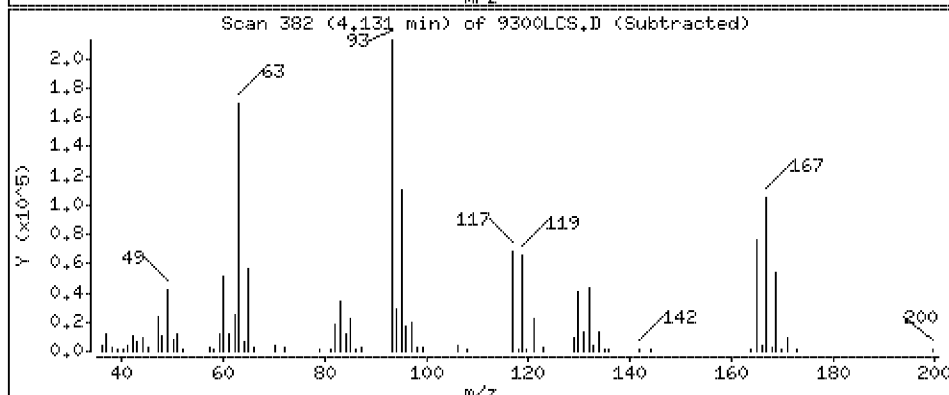
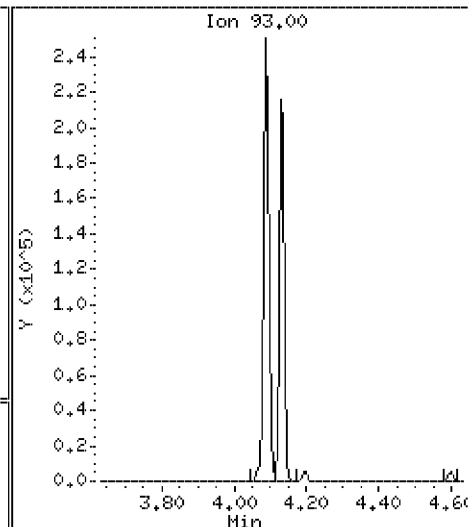
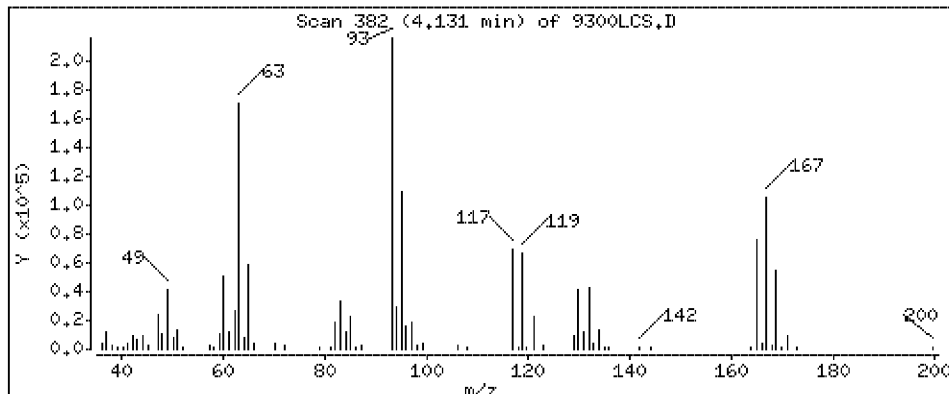
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

14 Bis(2-Chloroethyl)ether

Concentration: 1550 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

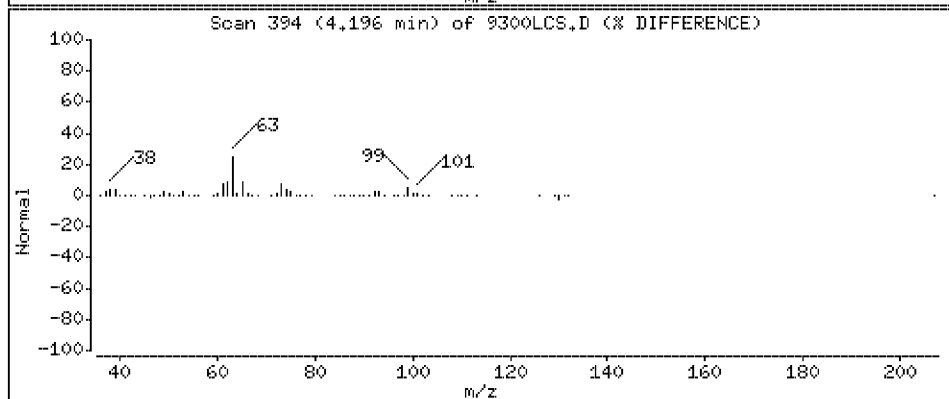
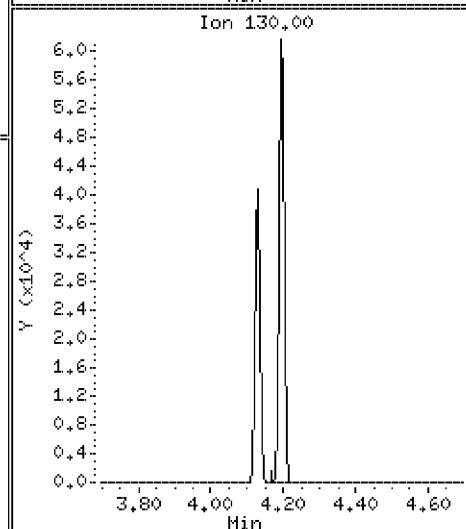
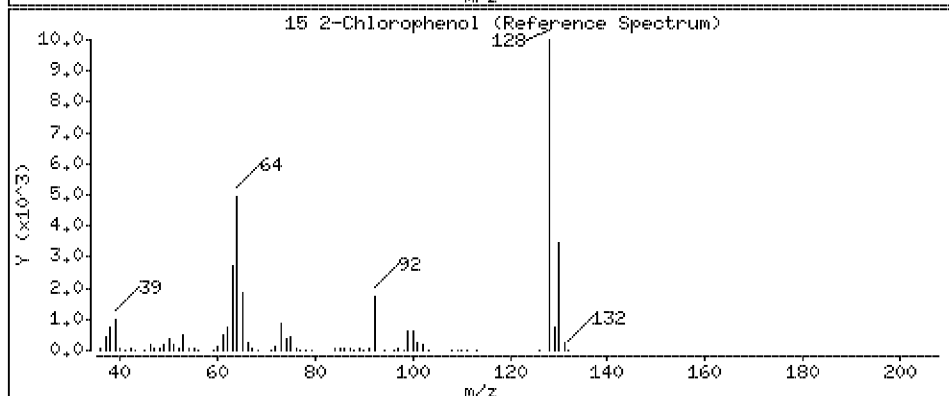
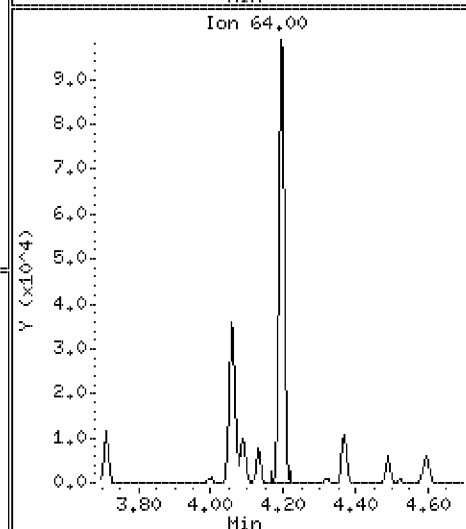
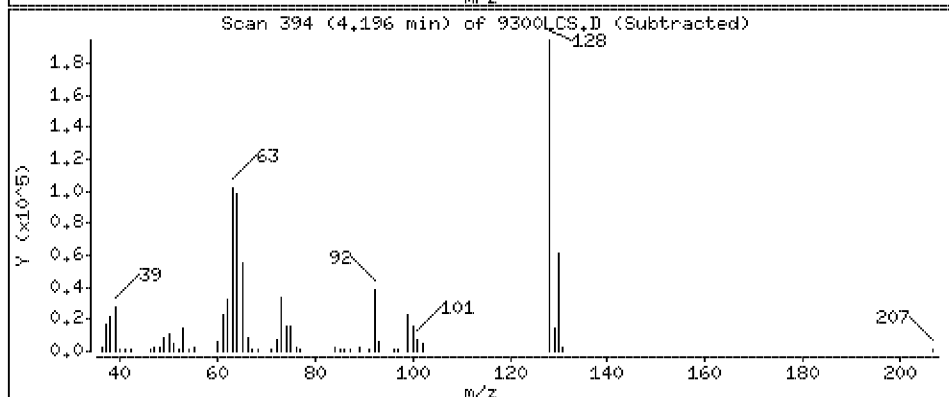
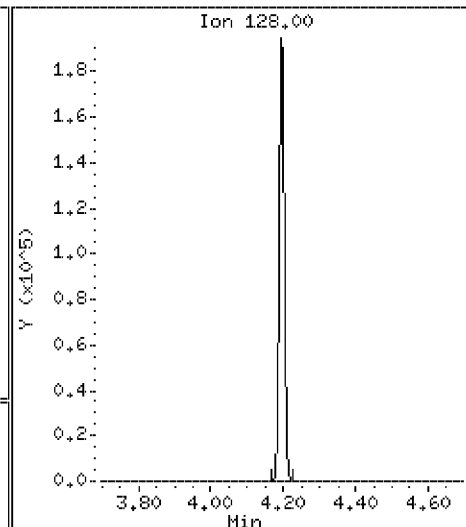
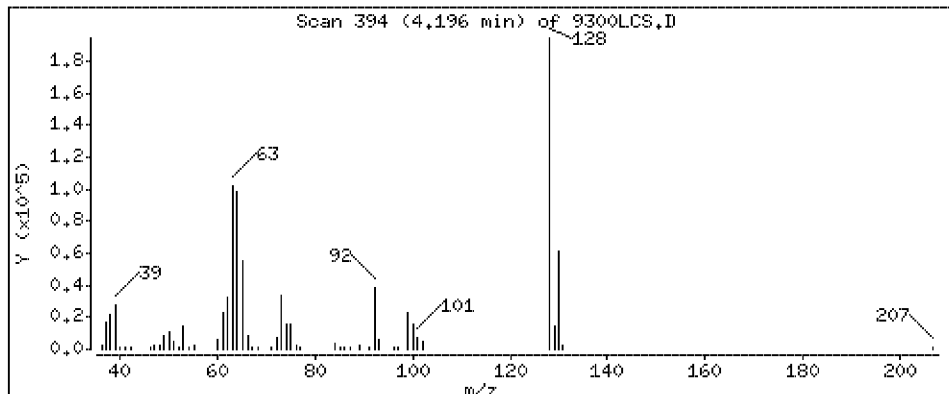
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

15 2-Chlorophenol

Concentration: 1430 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

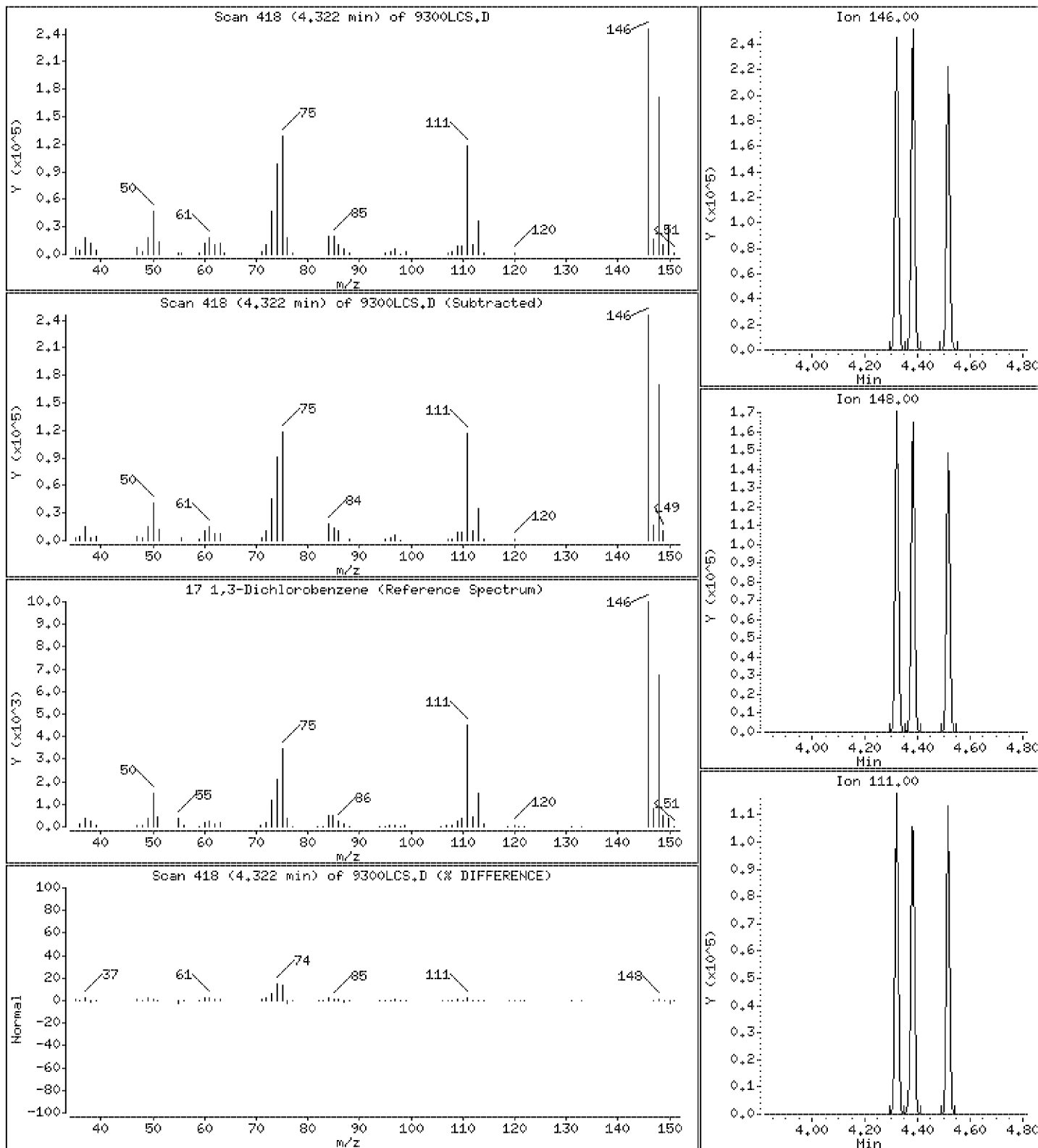
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

17 1,3-Dichlorobenzene

Concentration: 1320 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

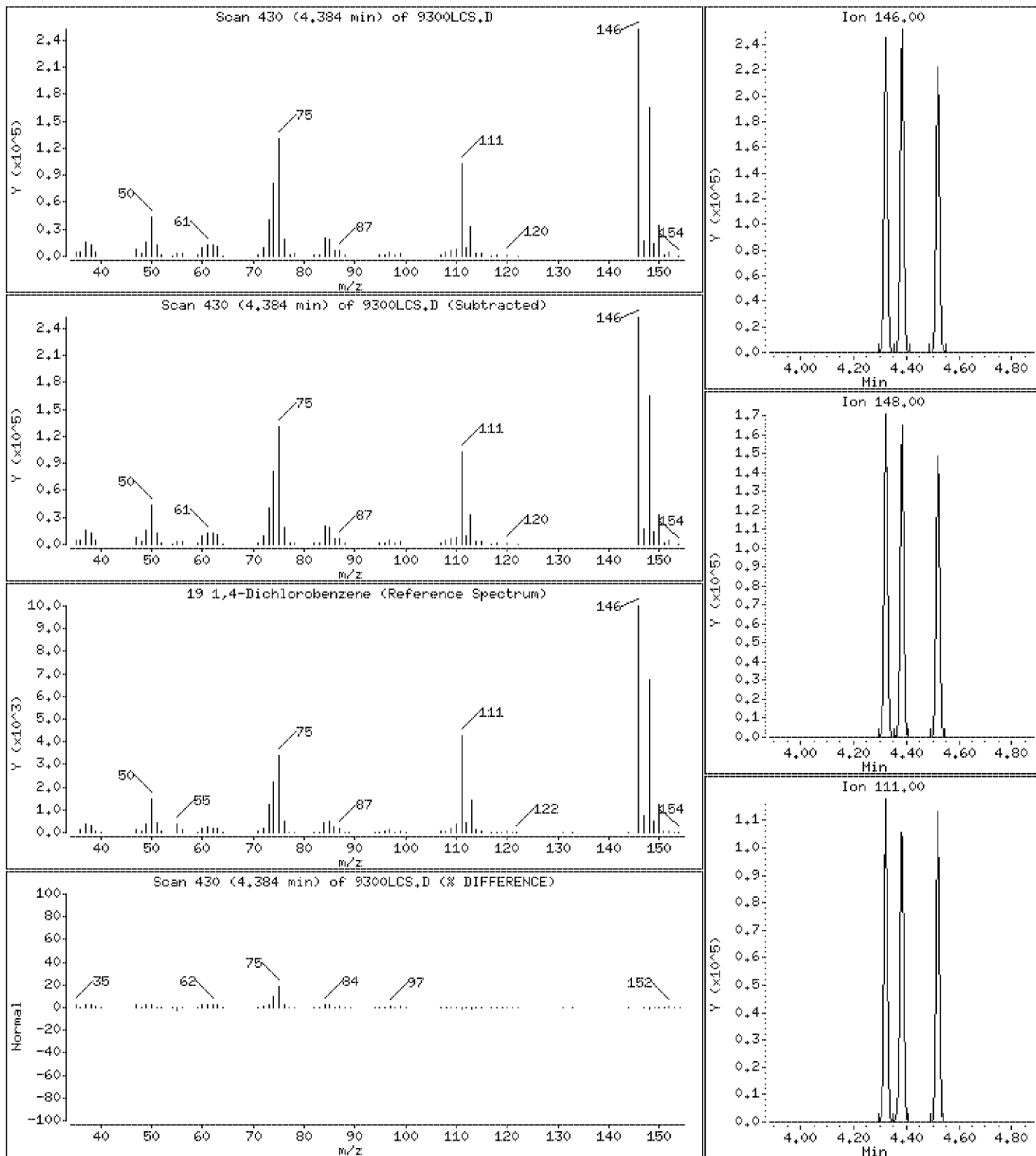
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

19 1,4-Dichlorobenzene

Concentration: 1340 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

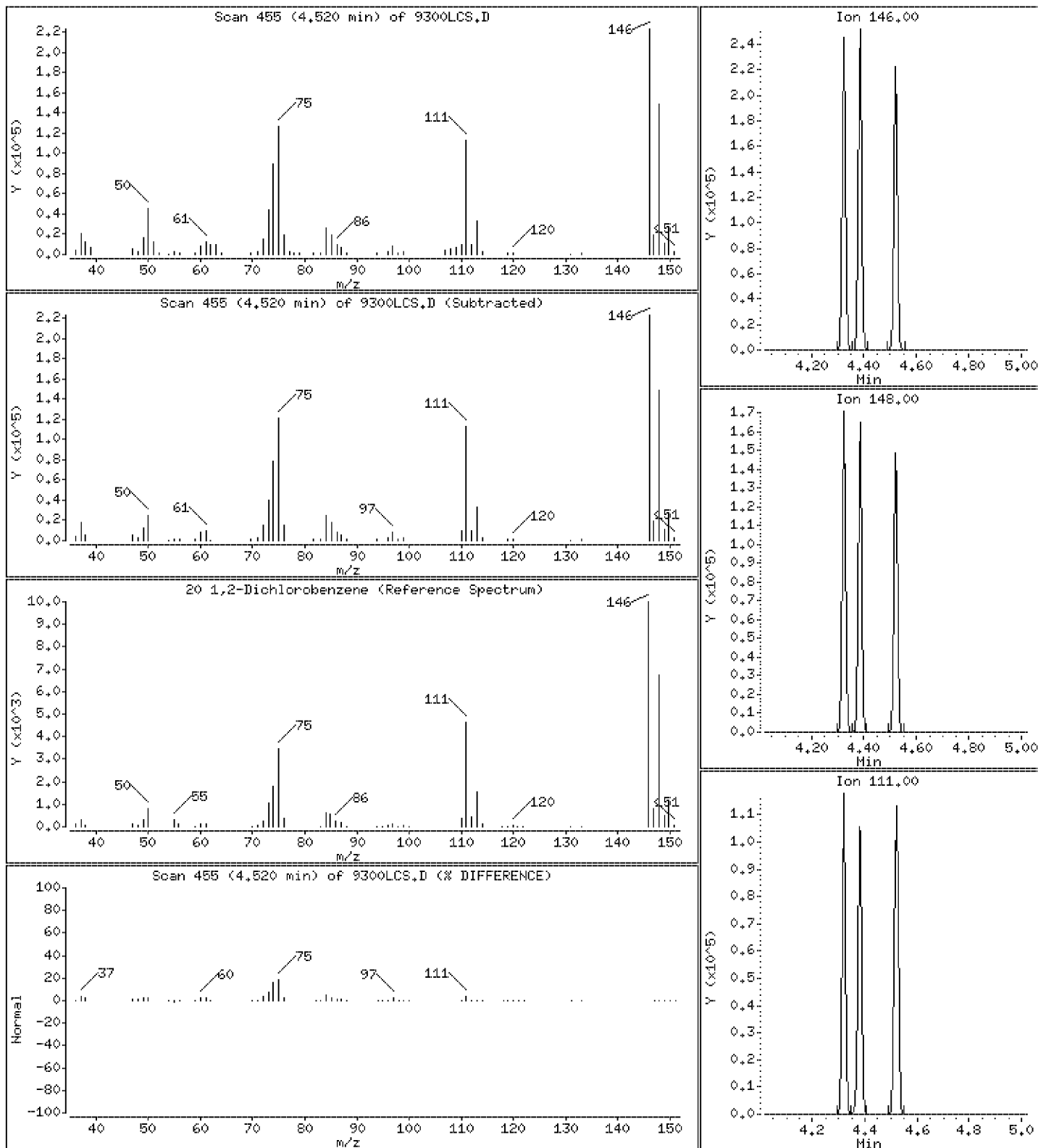
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

20 1,2-Dichlorobenzene

Concentration: 1310 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

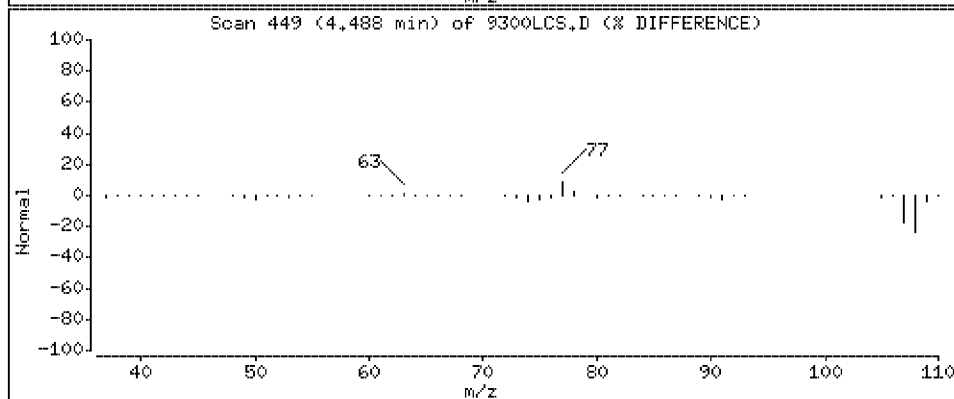
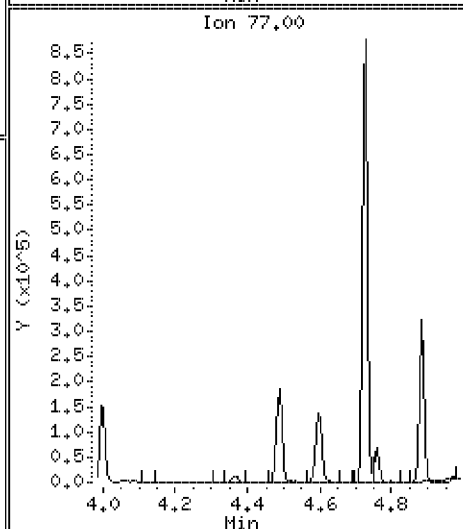
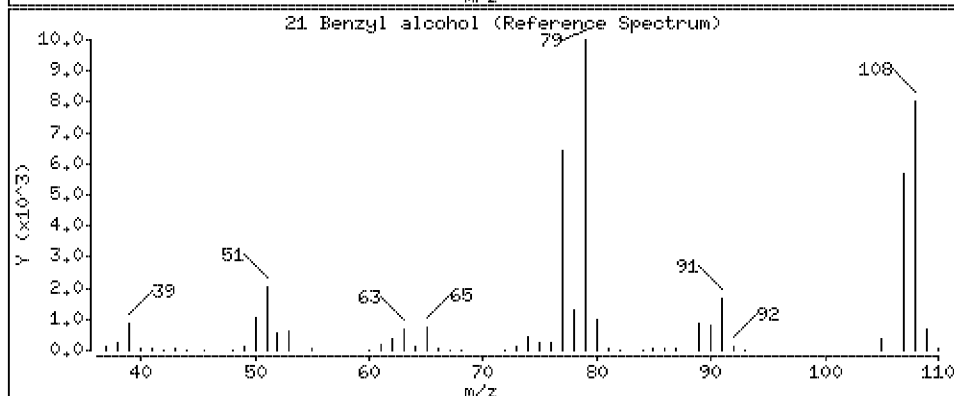
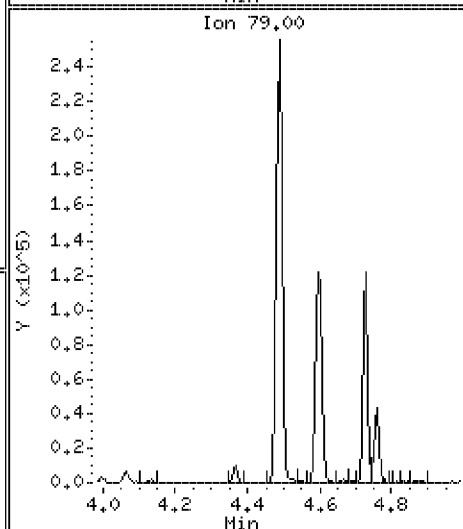
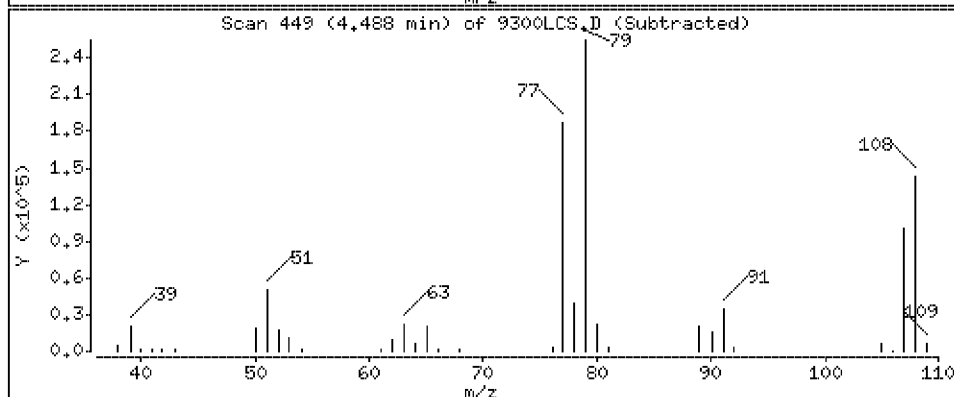
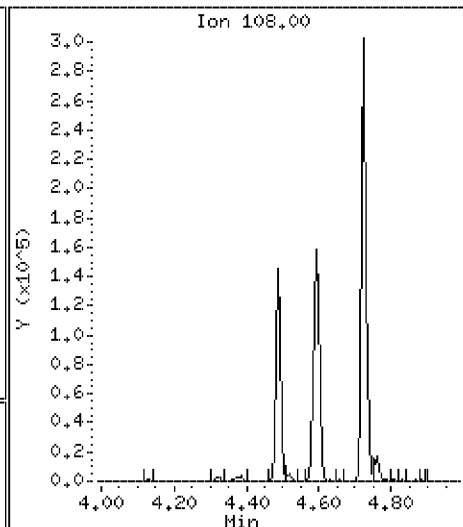
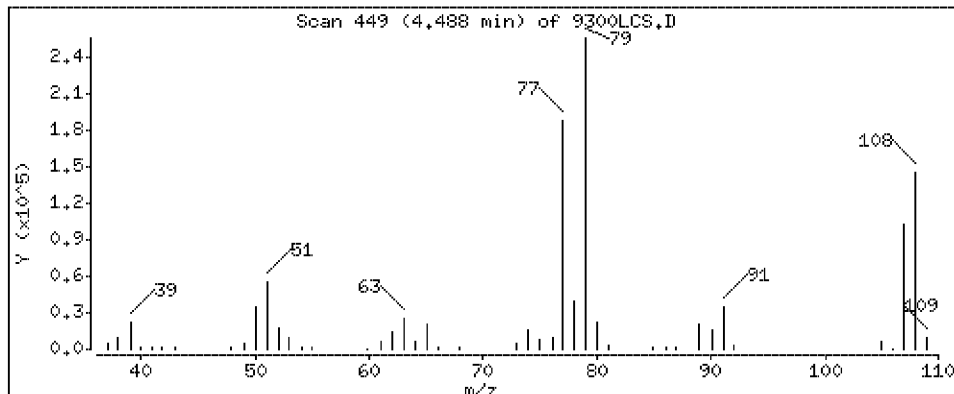
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

21 Benzyl alcohol

Concentration: 1420 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

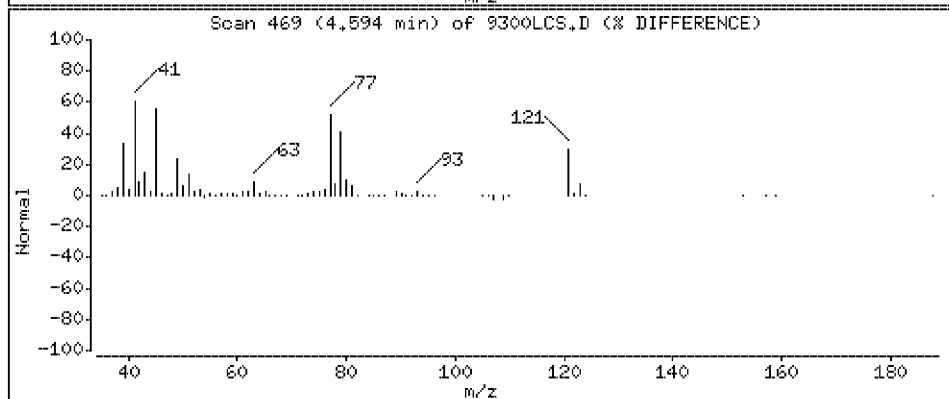
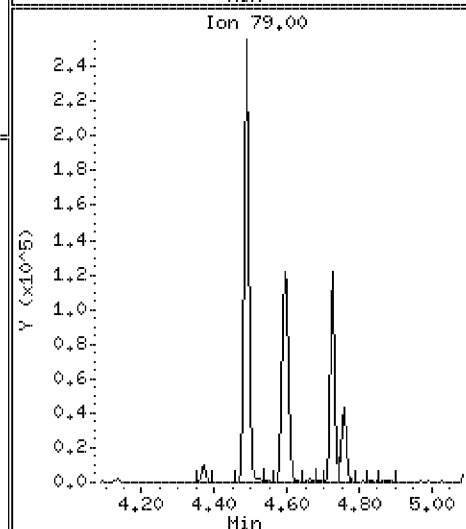
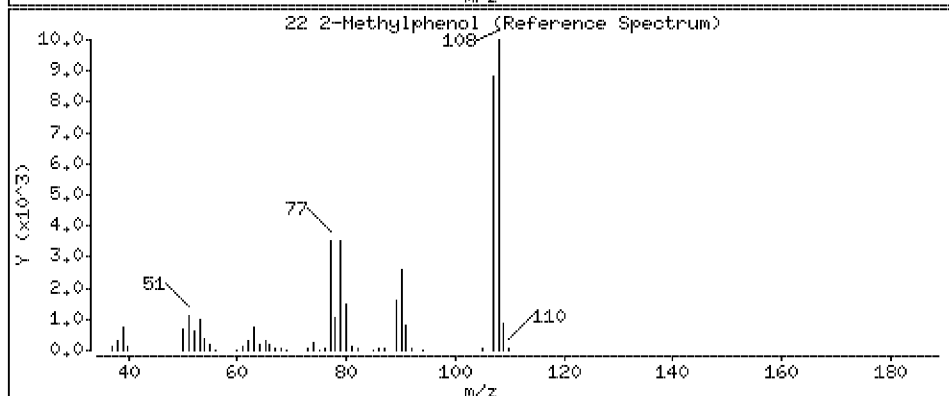
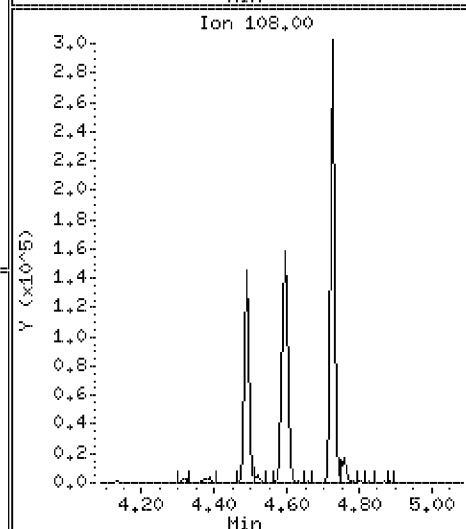
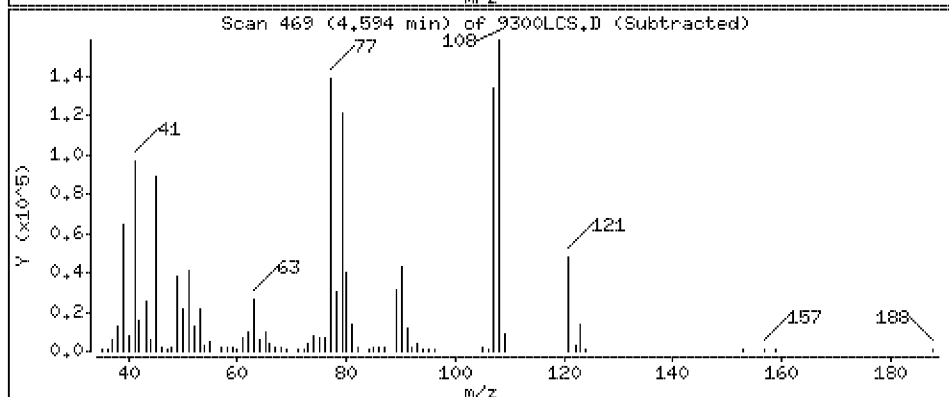
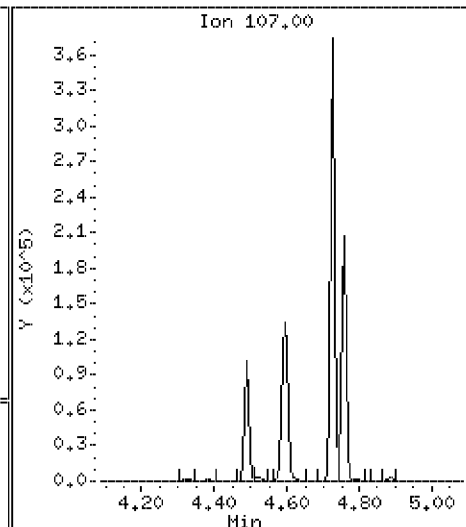
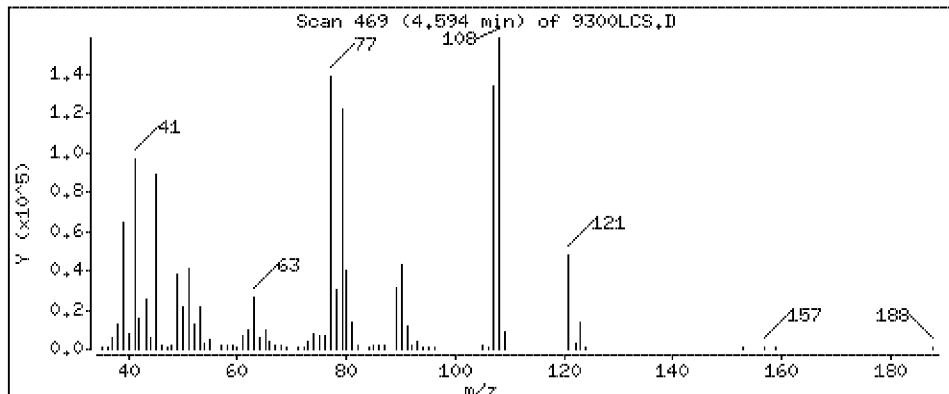
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

22 2-Methylphenol

Concentration: 1330 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

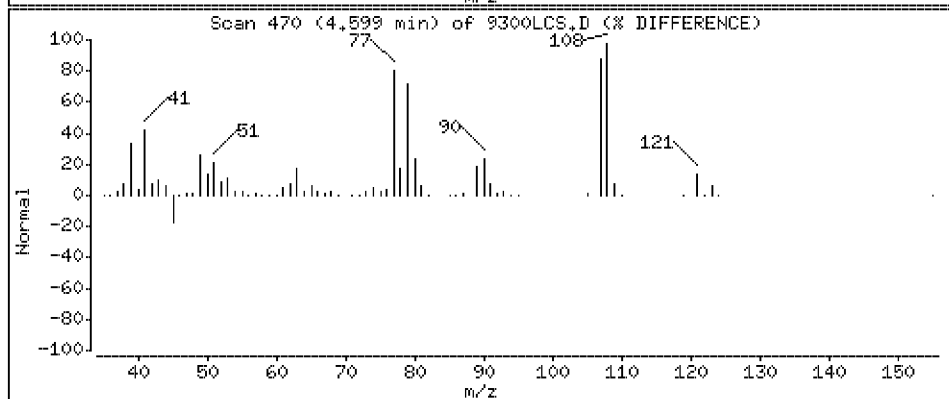
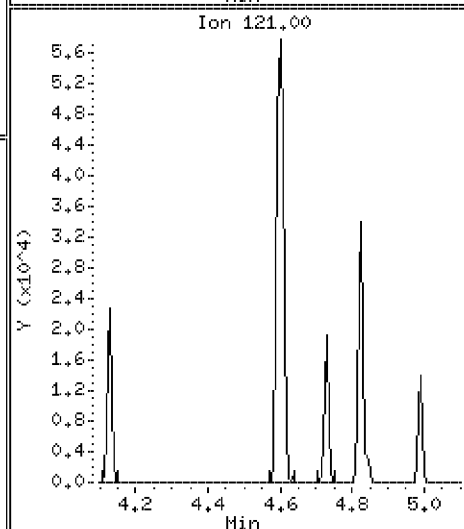
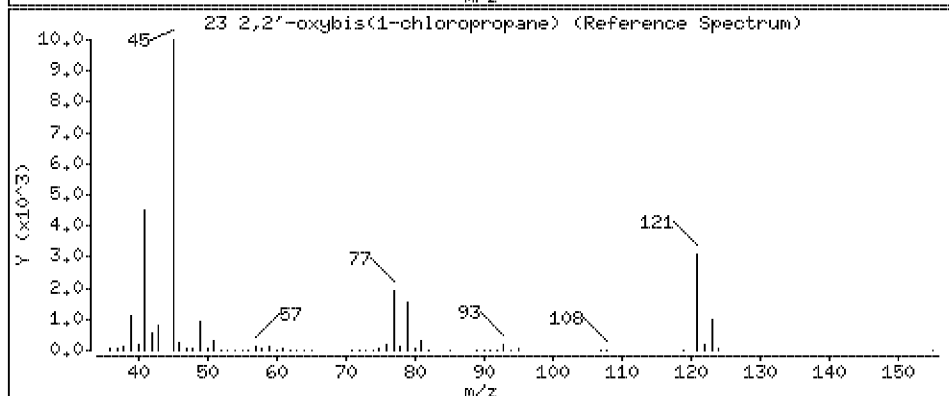
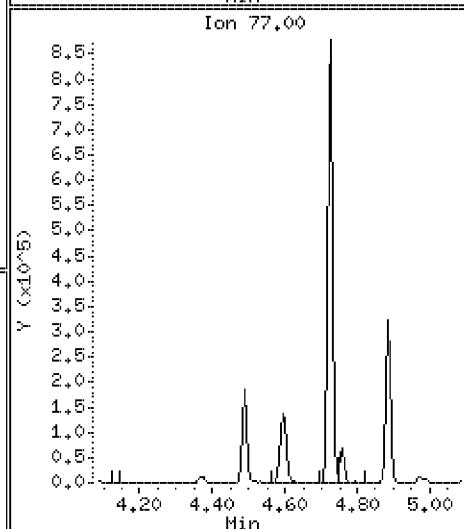
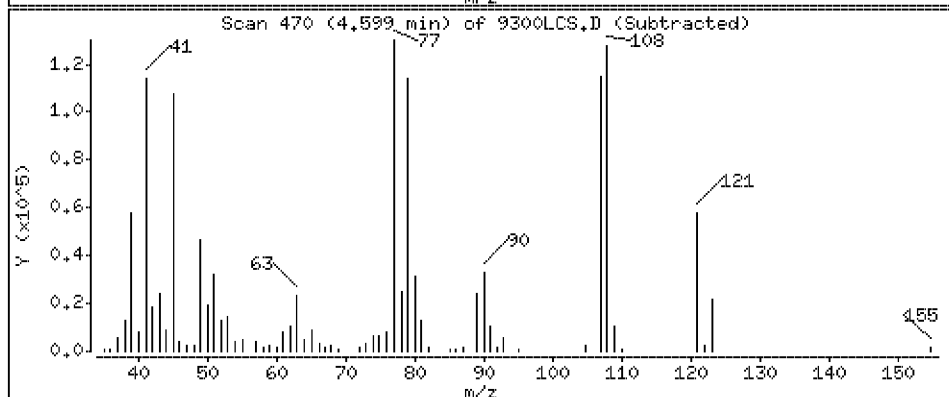
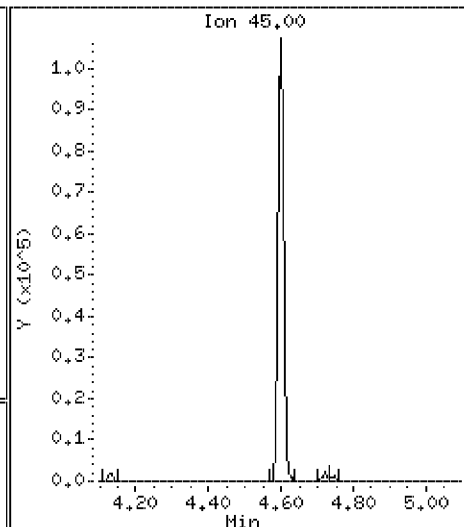
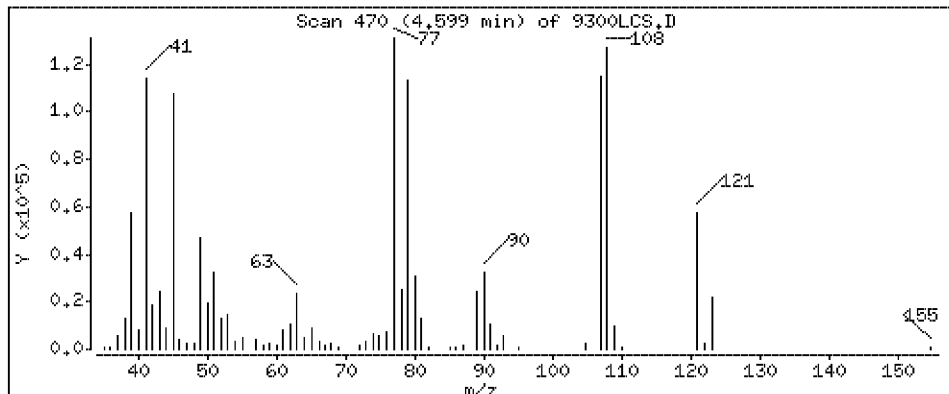
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

23 2,2'-oxybis(1-chloropropane)

Concentration: 1350 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

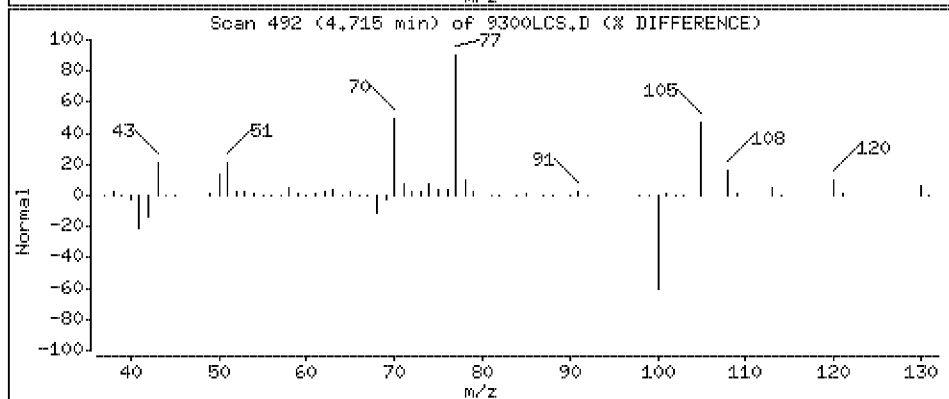
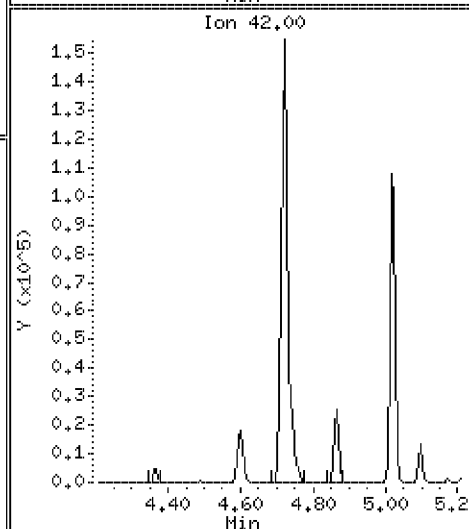
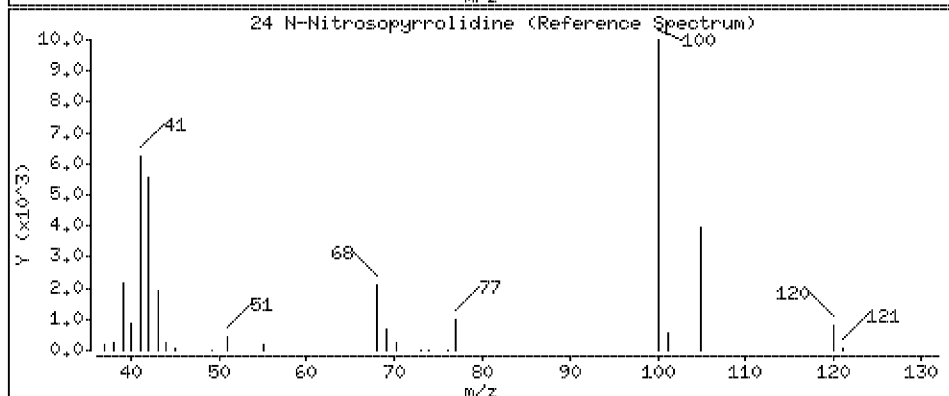
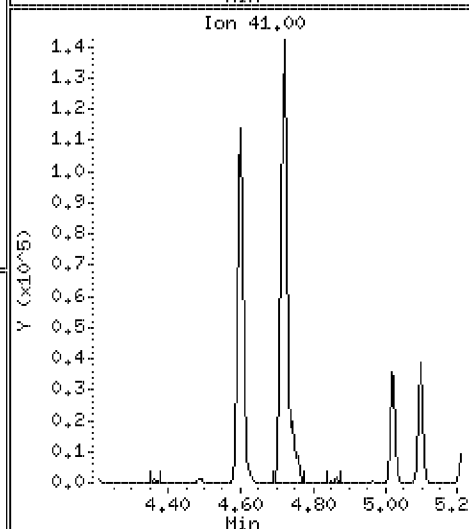
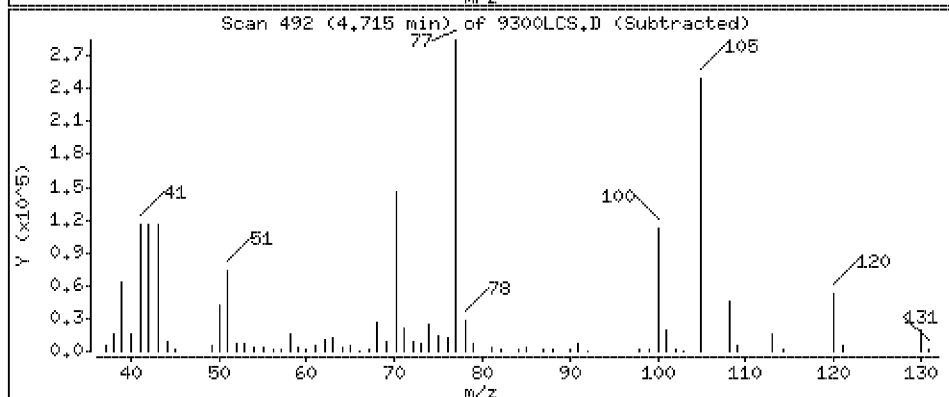
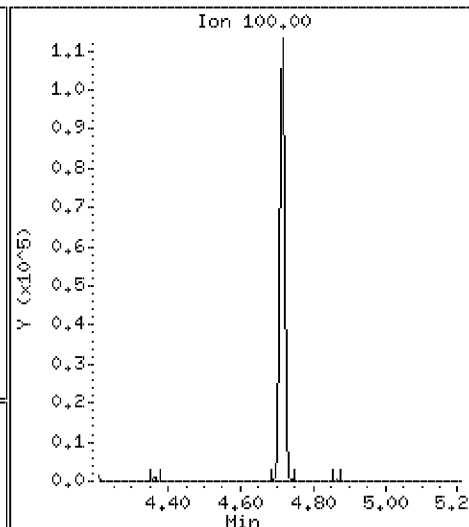
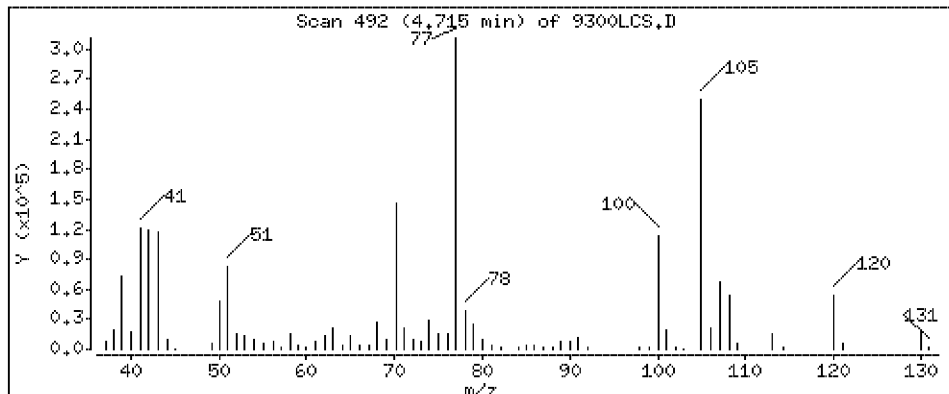
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

24 N-Nitrosopyrrolidine

Concentration: 1460 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

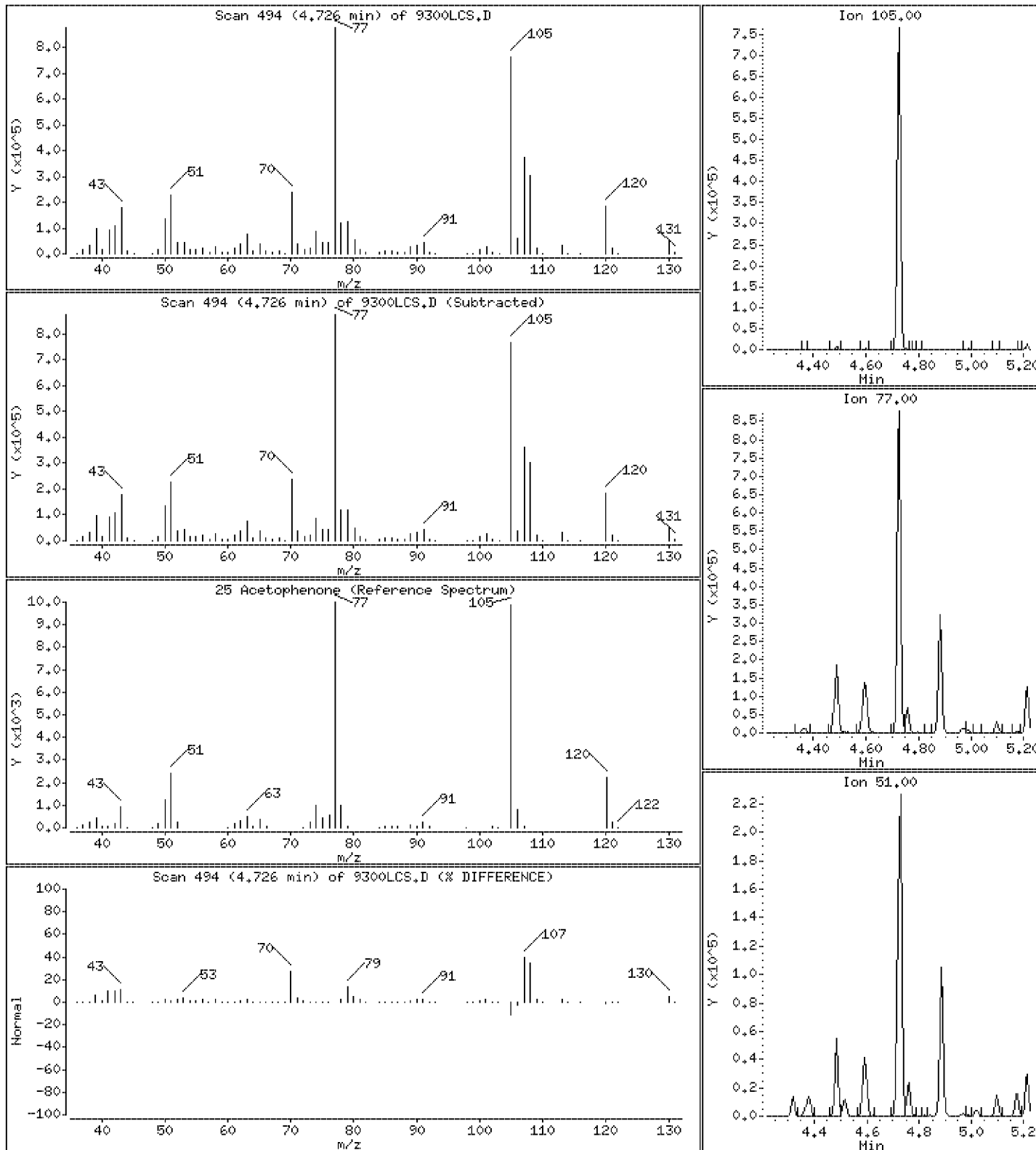
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

25 Acetophenone

Concentration: 3100 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

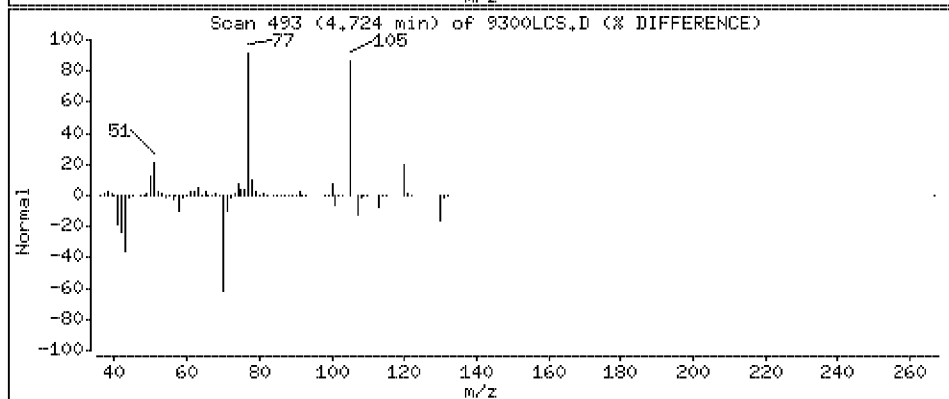
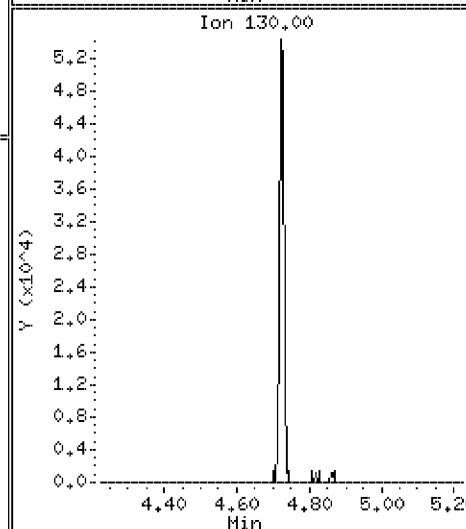
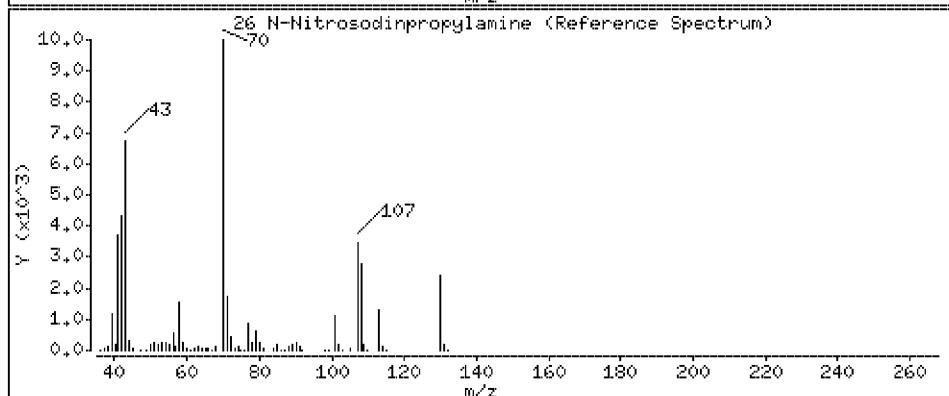
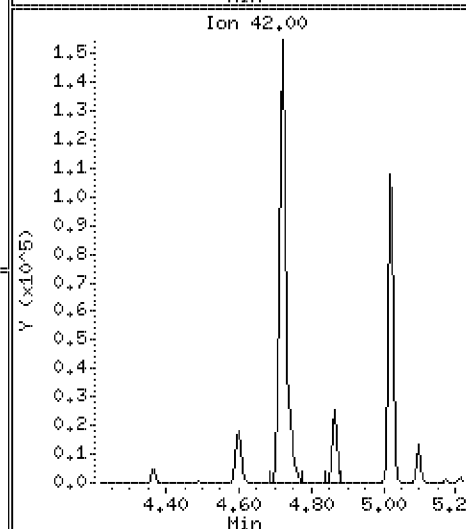
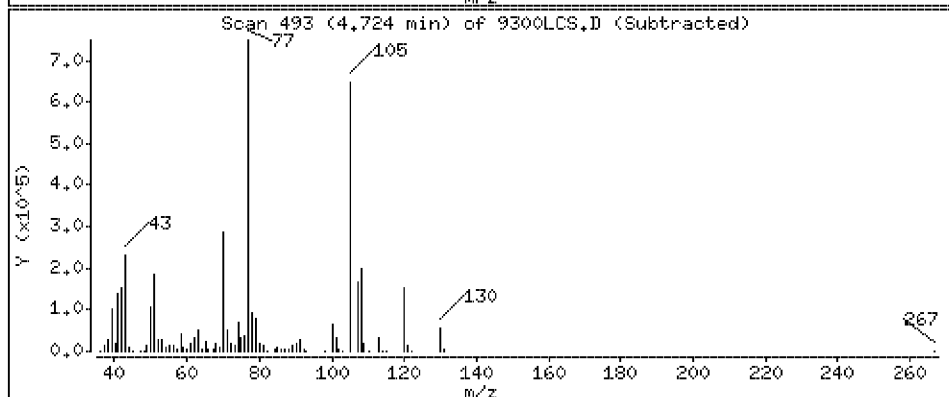
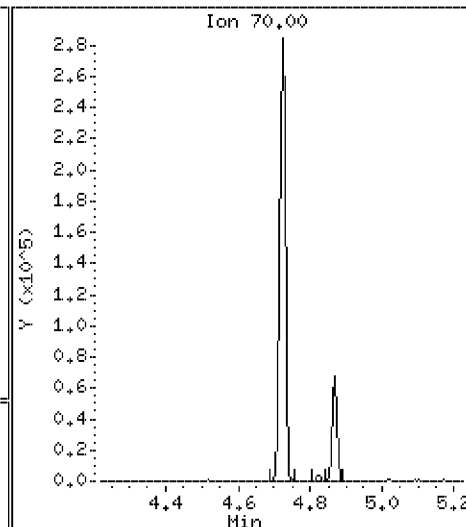
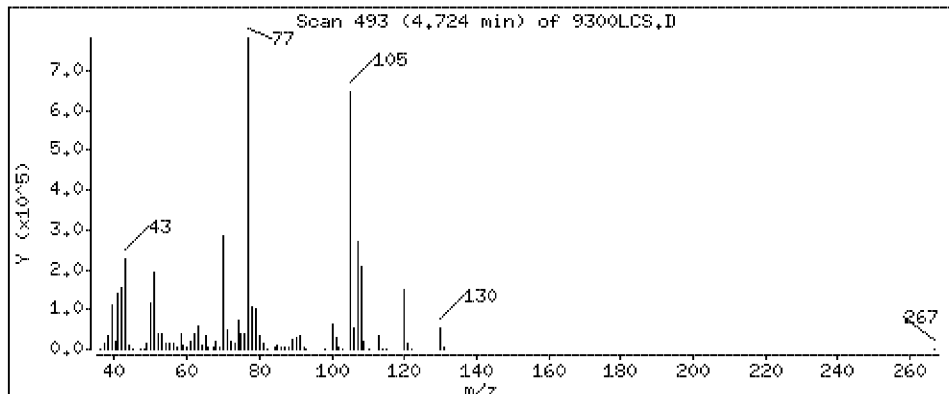
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

26 N-Nitrosodipropylamine

Concentration: 1840 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

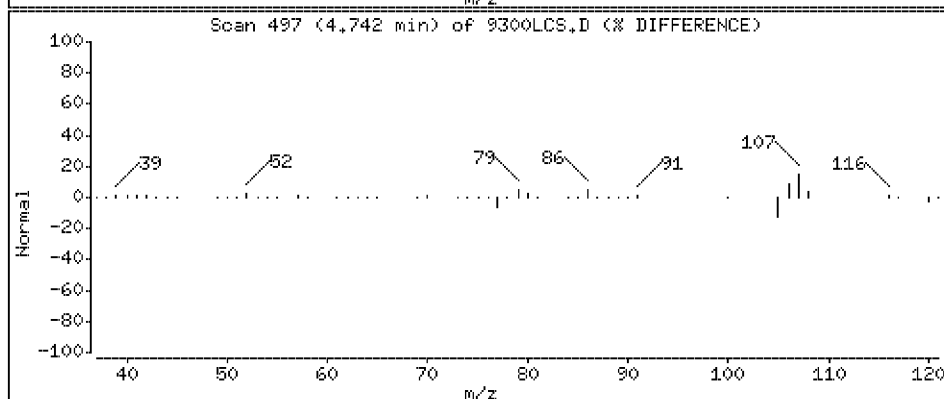
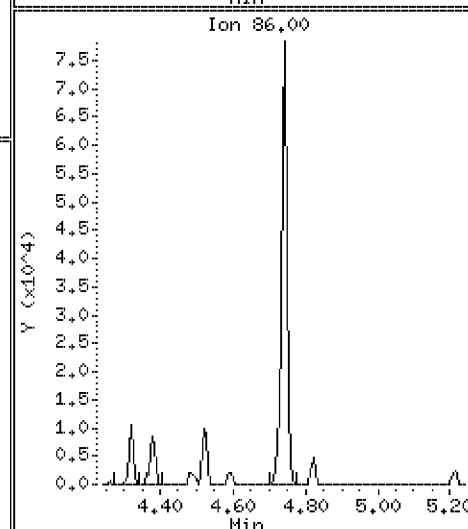
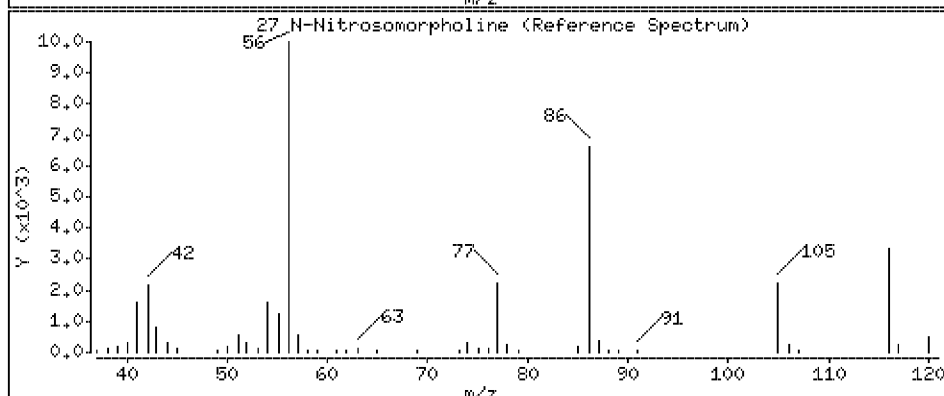
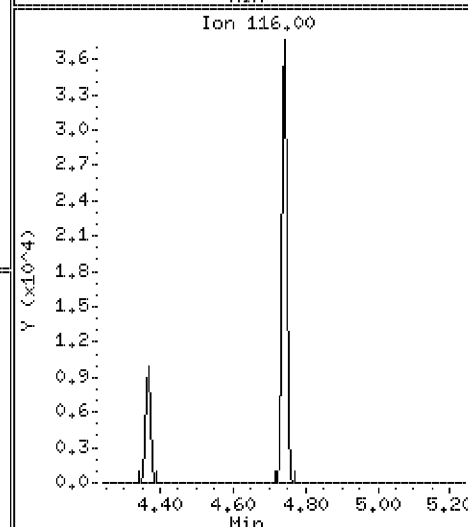
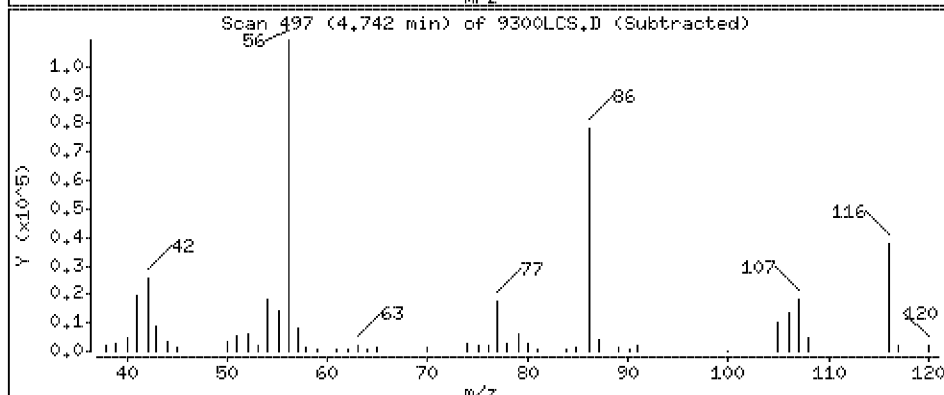
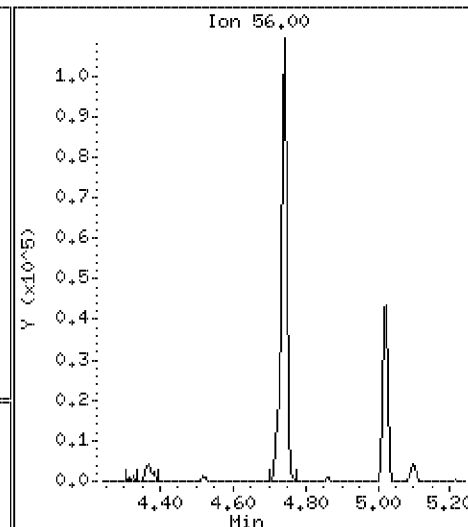
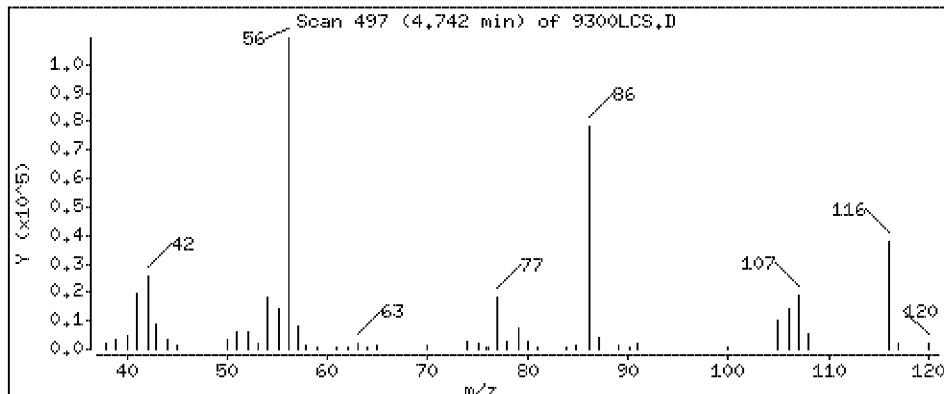
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

27 N-Nitrosomorpholine

Concentration: 1530 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

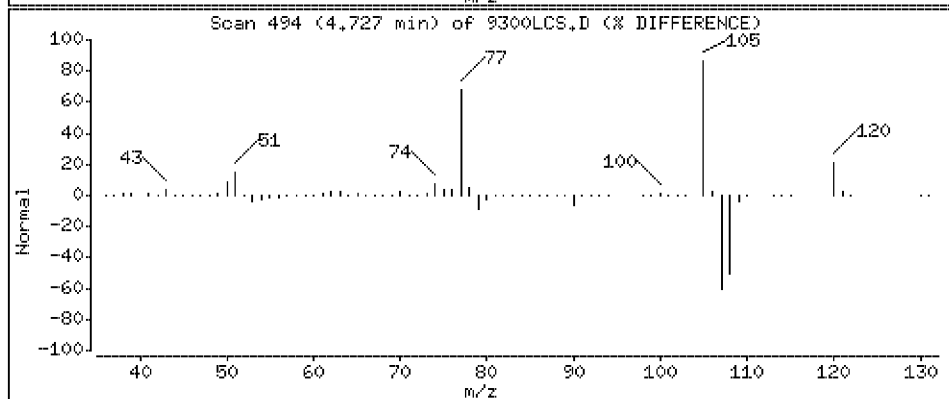
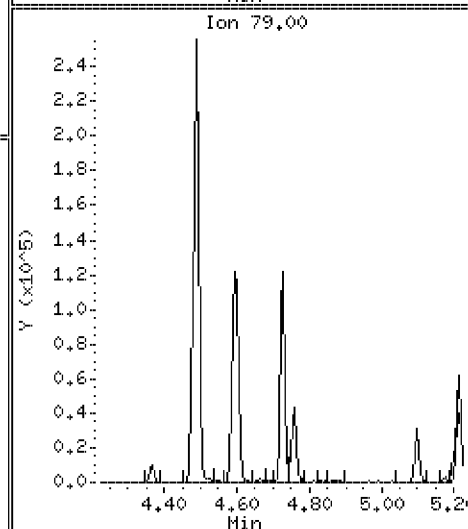
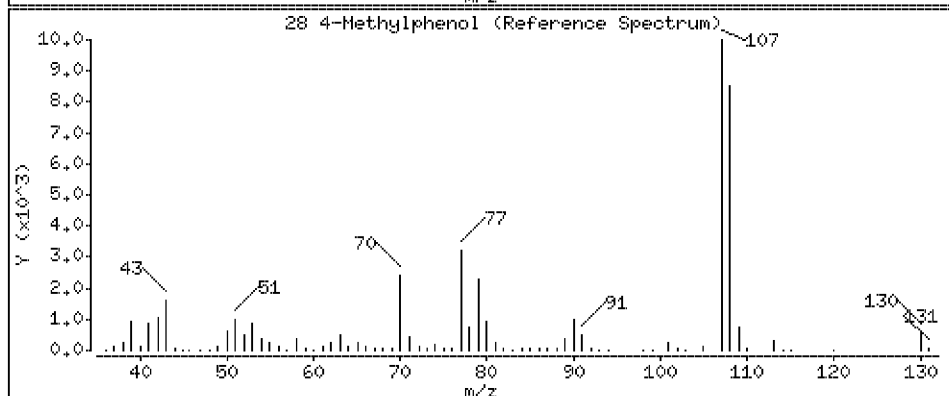
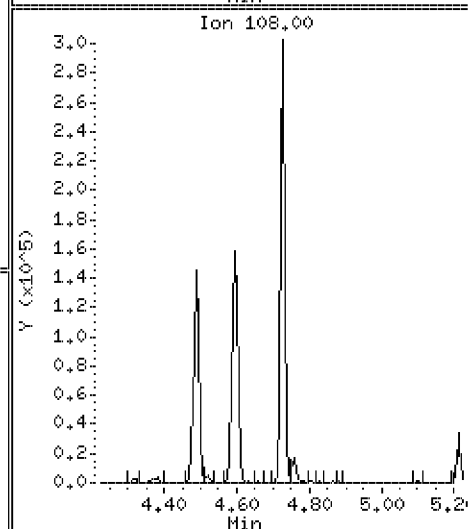
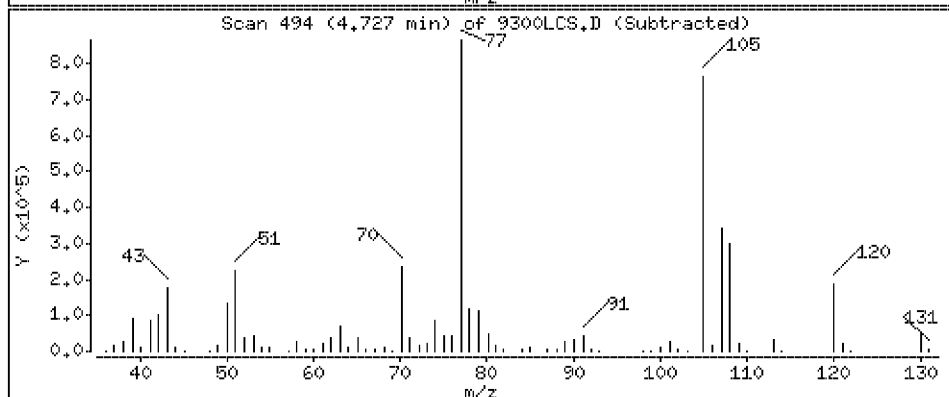
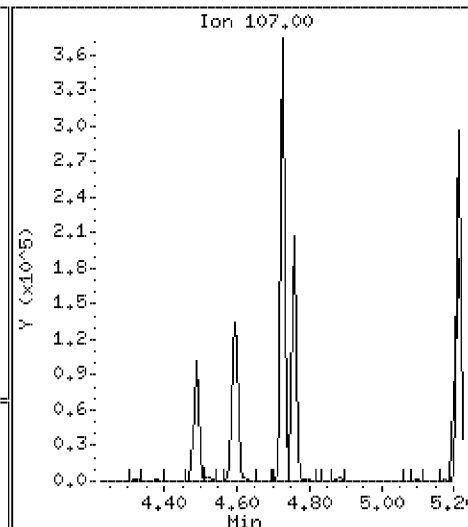
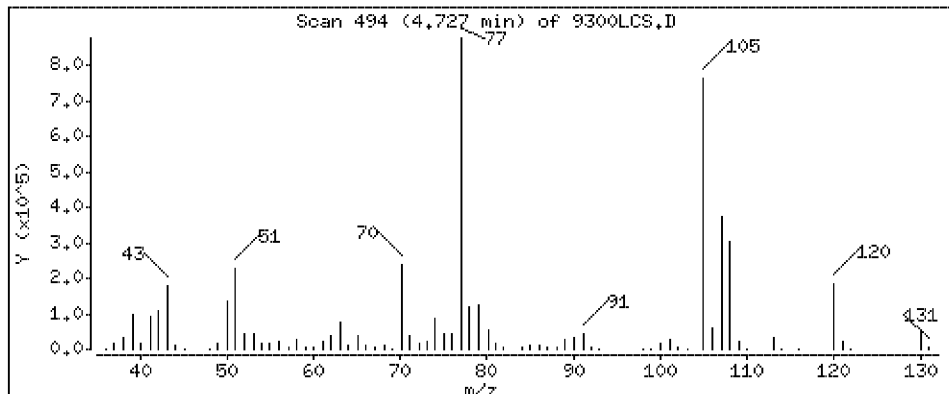
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

28 4-Methylphenol

Concentration: 1710 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

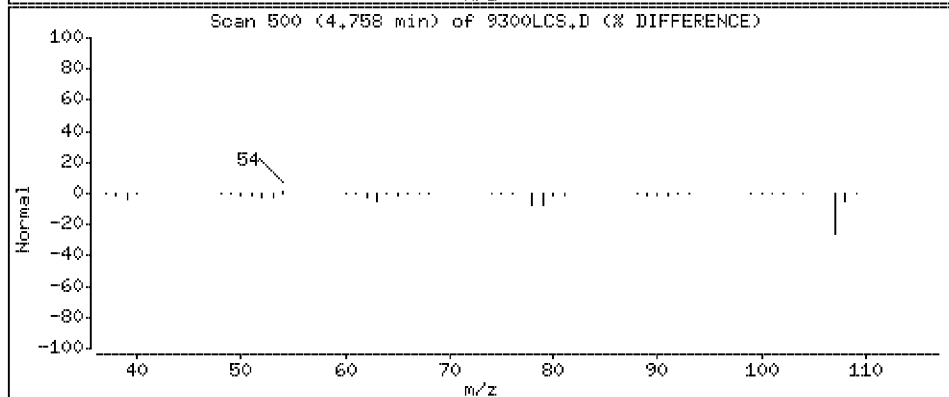
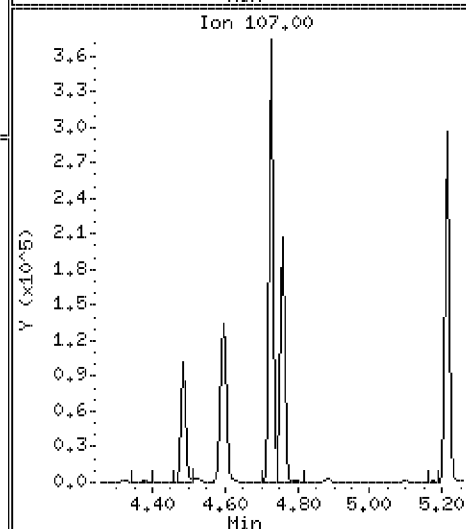
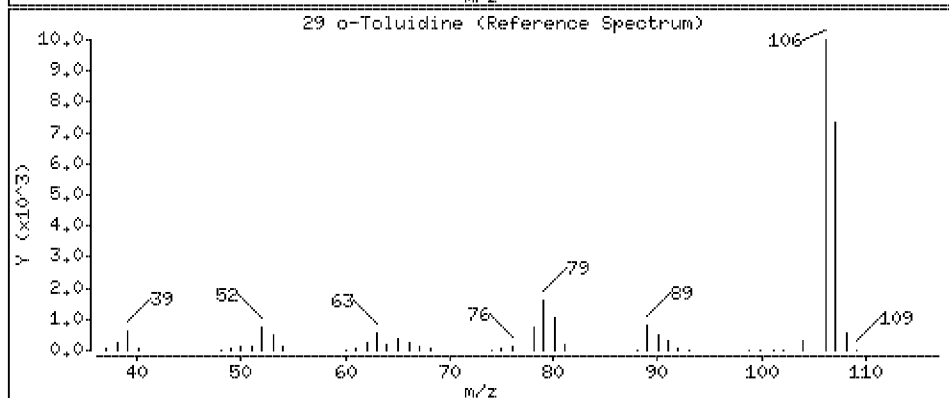
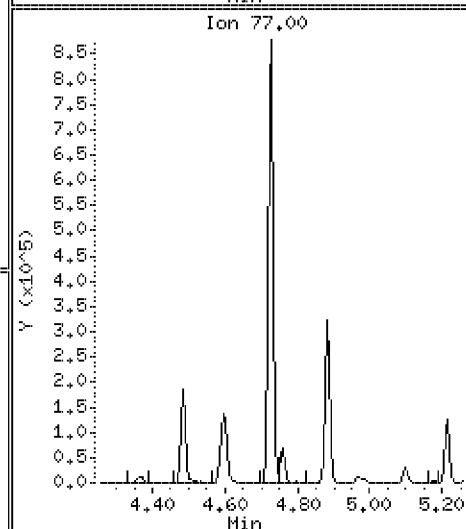
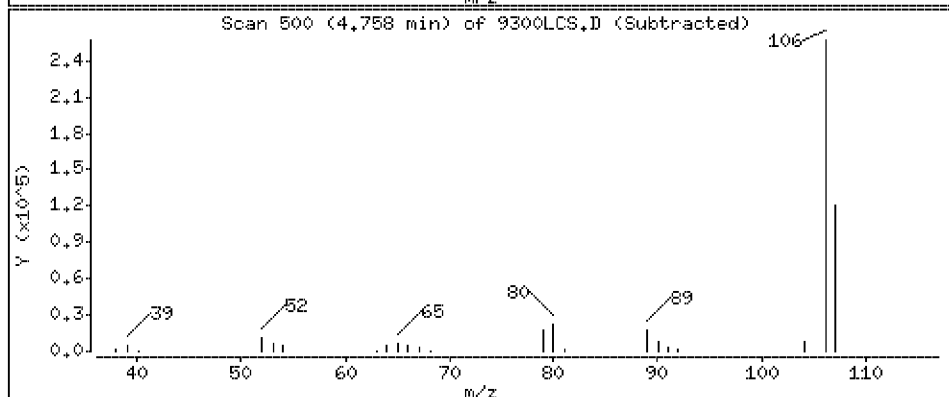
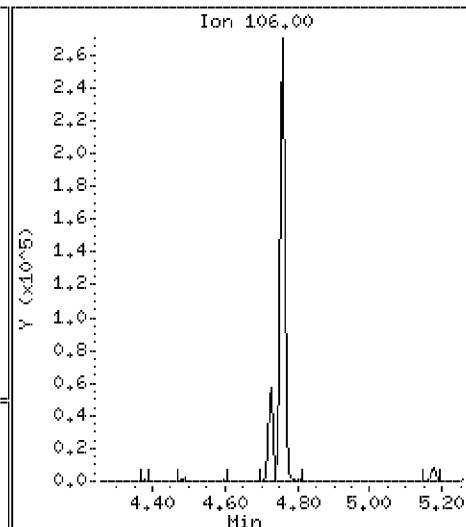
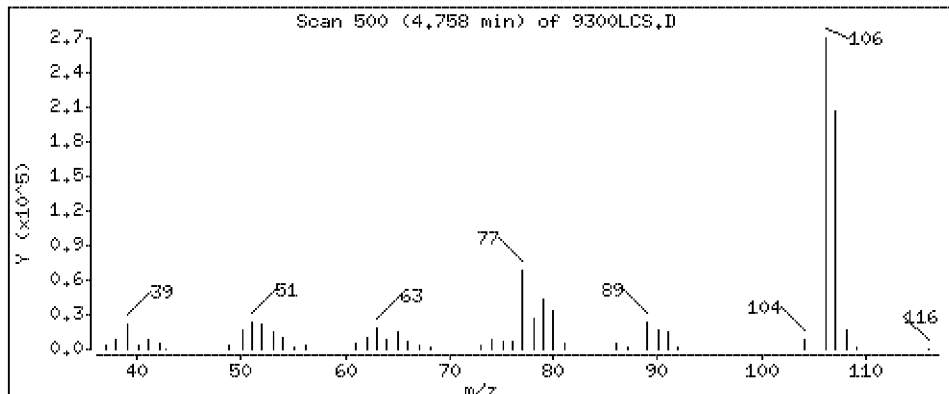
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

29 o-Toluidine

Concentration: 1020 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

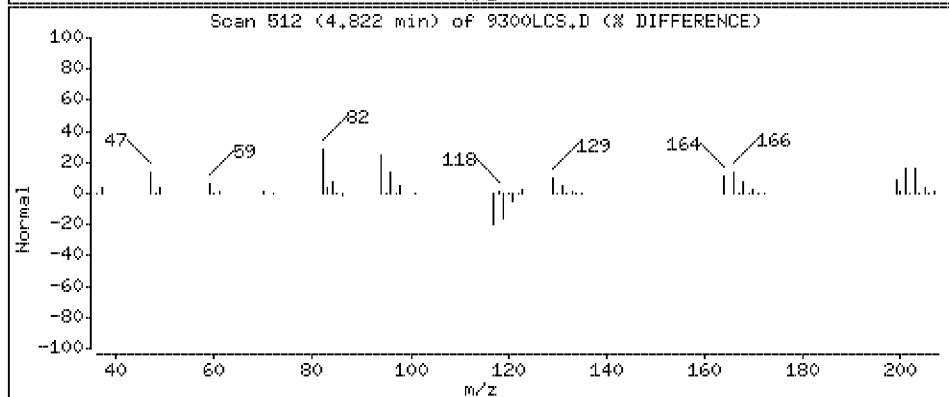
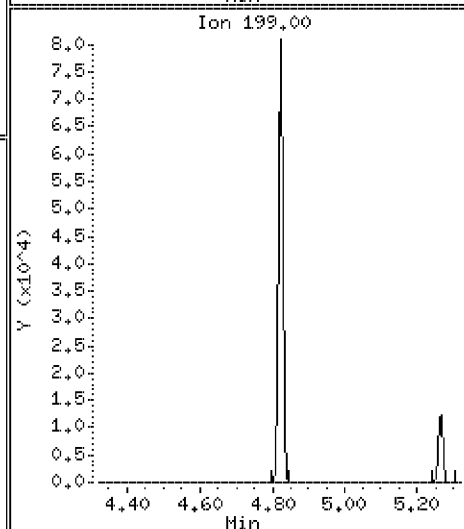
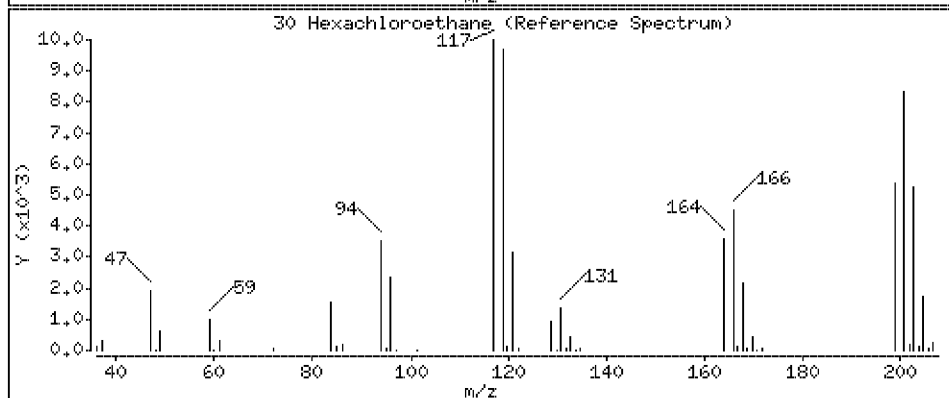
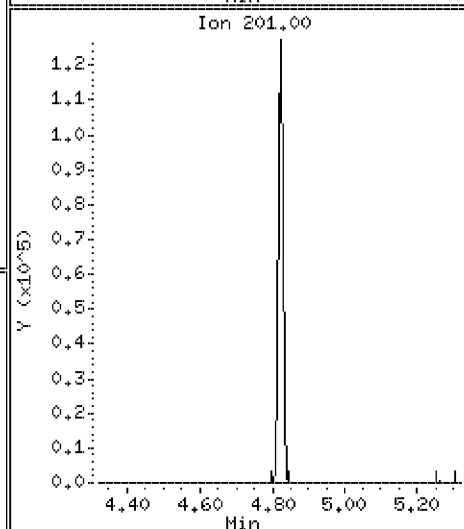
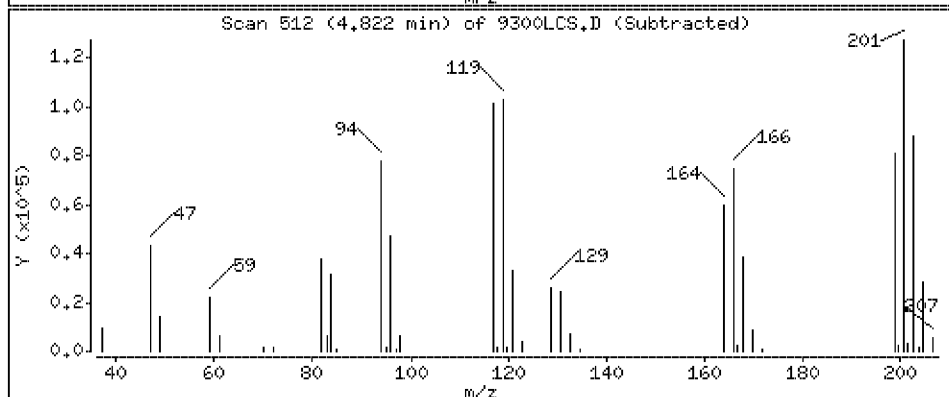
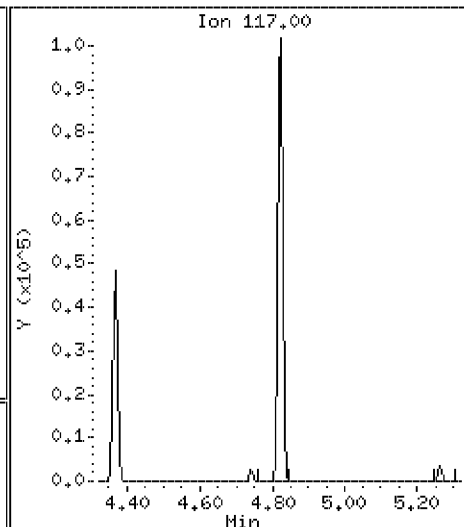
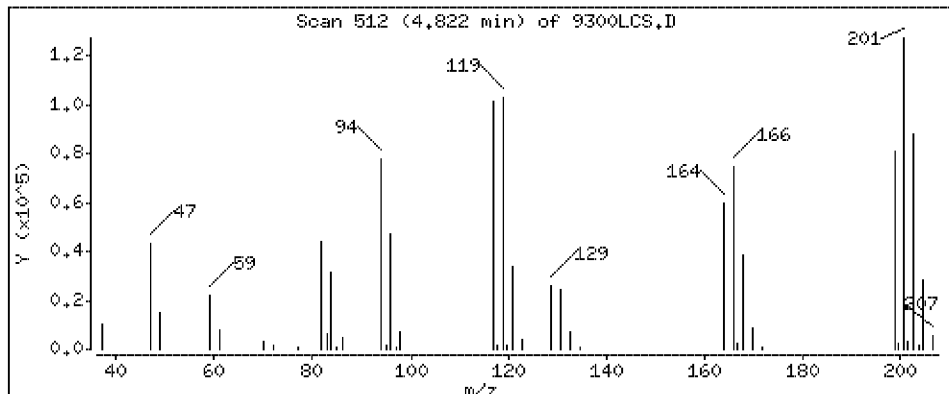
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

30 Hexachloroethane

Concentration: 1420 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

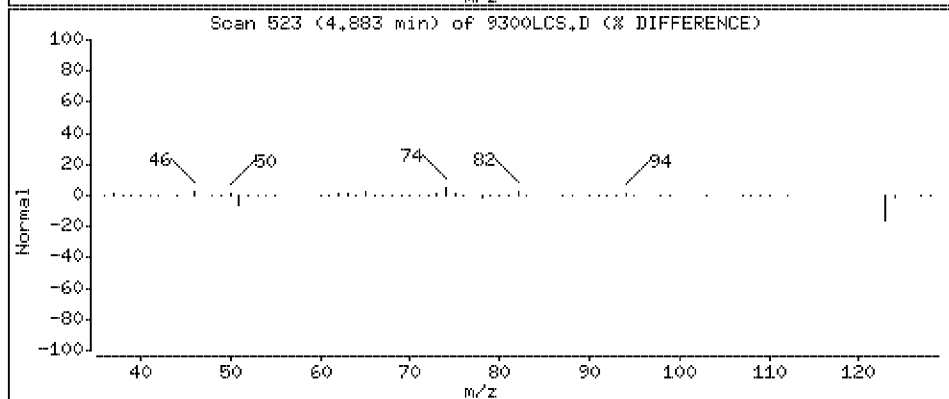
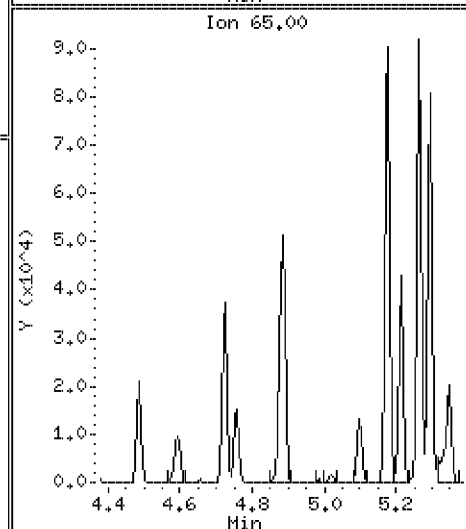
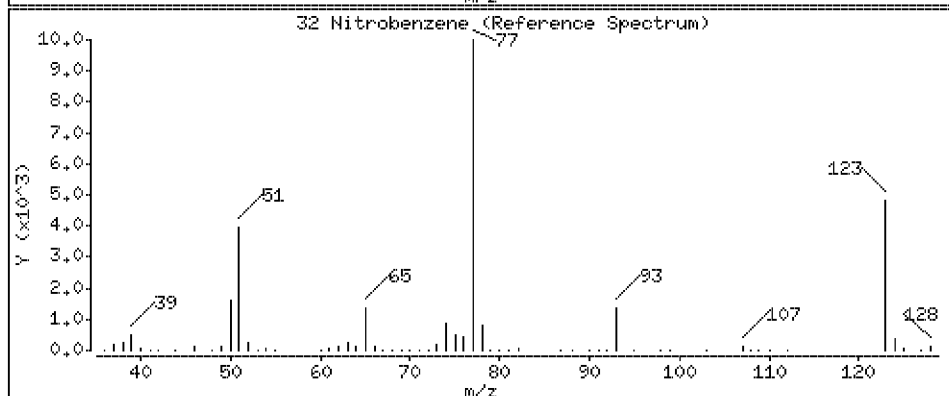
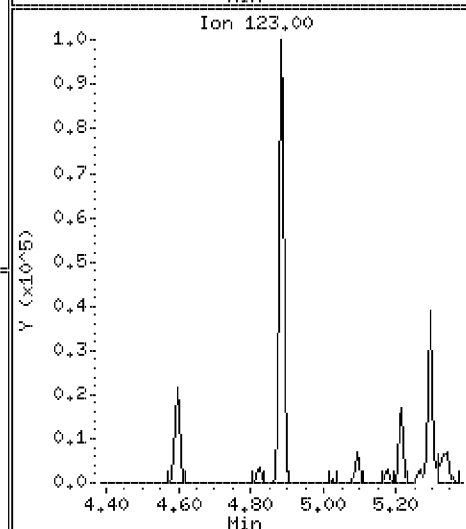
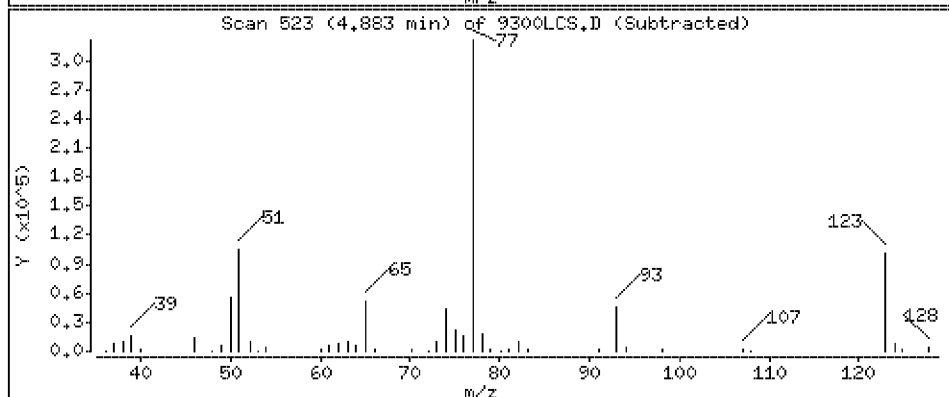
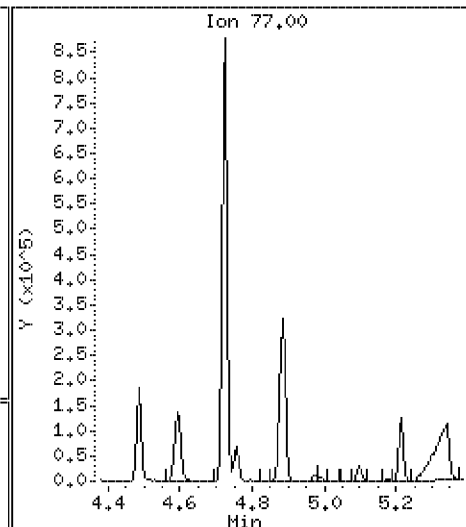
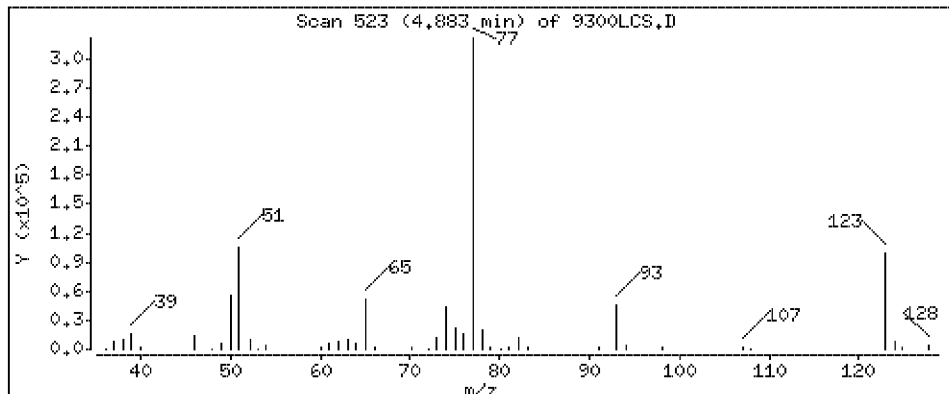
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

32 Nitrobenzene

Concentration: 1480 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

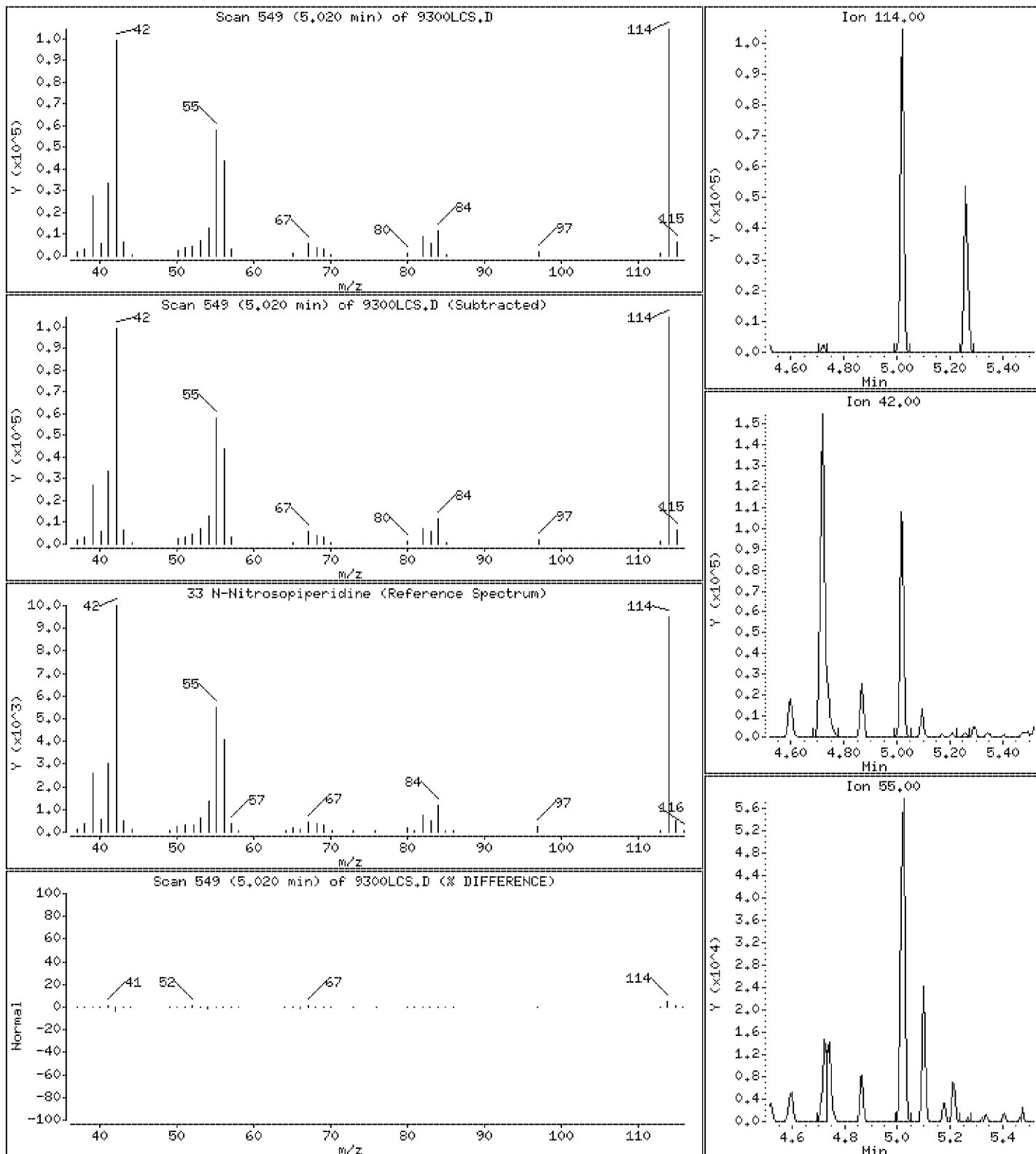
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

33 N-Nitrosopiperidine

Concentration: 1440 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

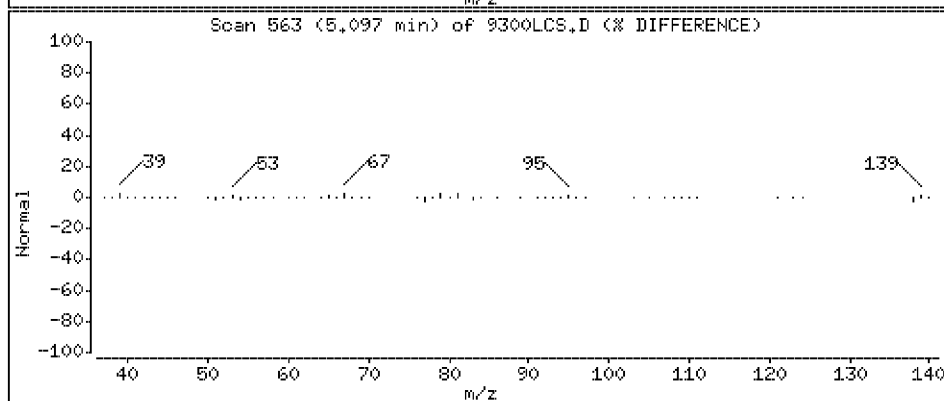
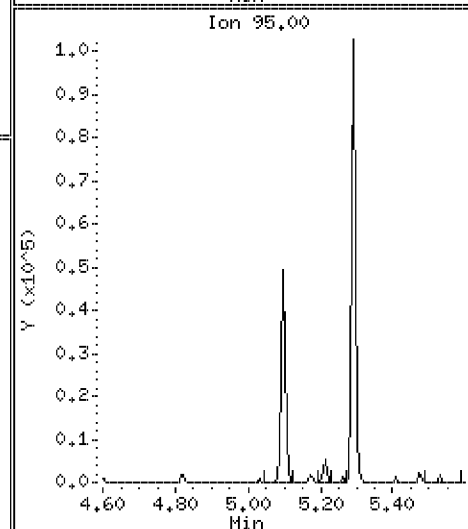
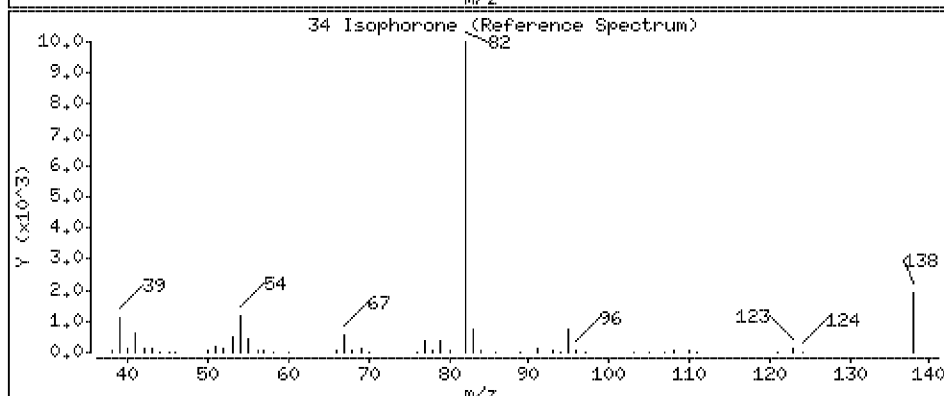
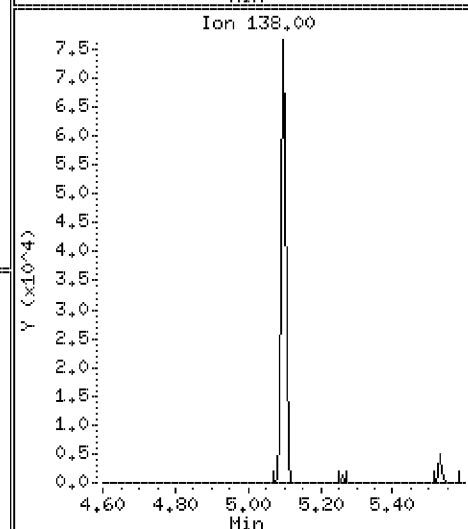
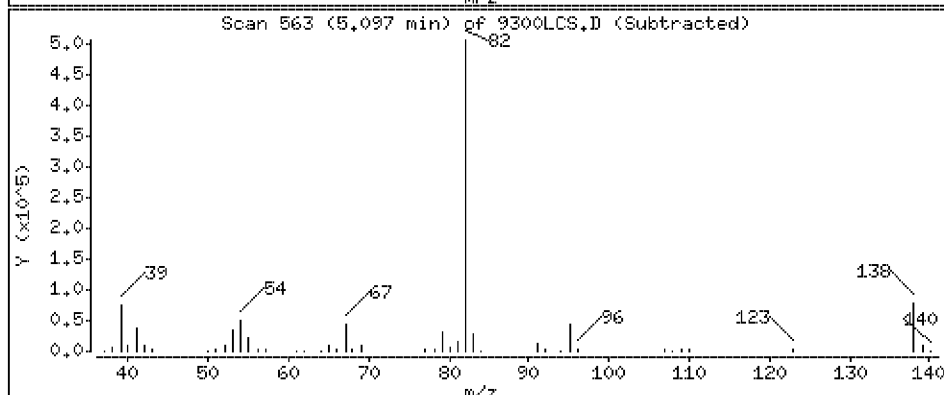
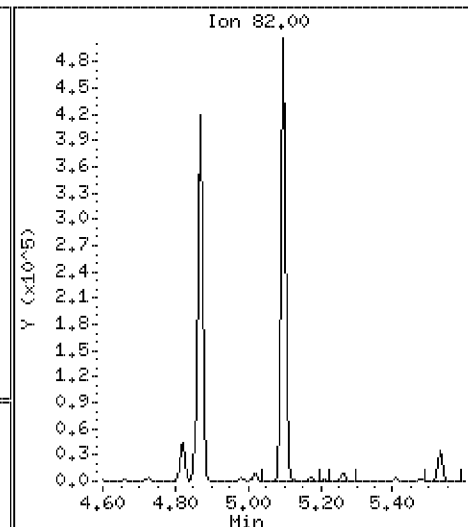
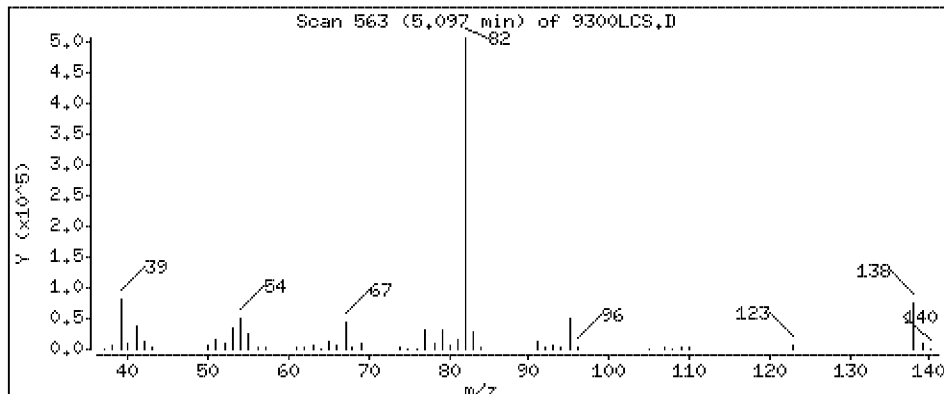
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

34 Isophorone

Concentration: 1870 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

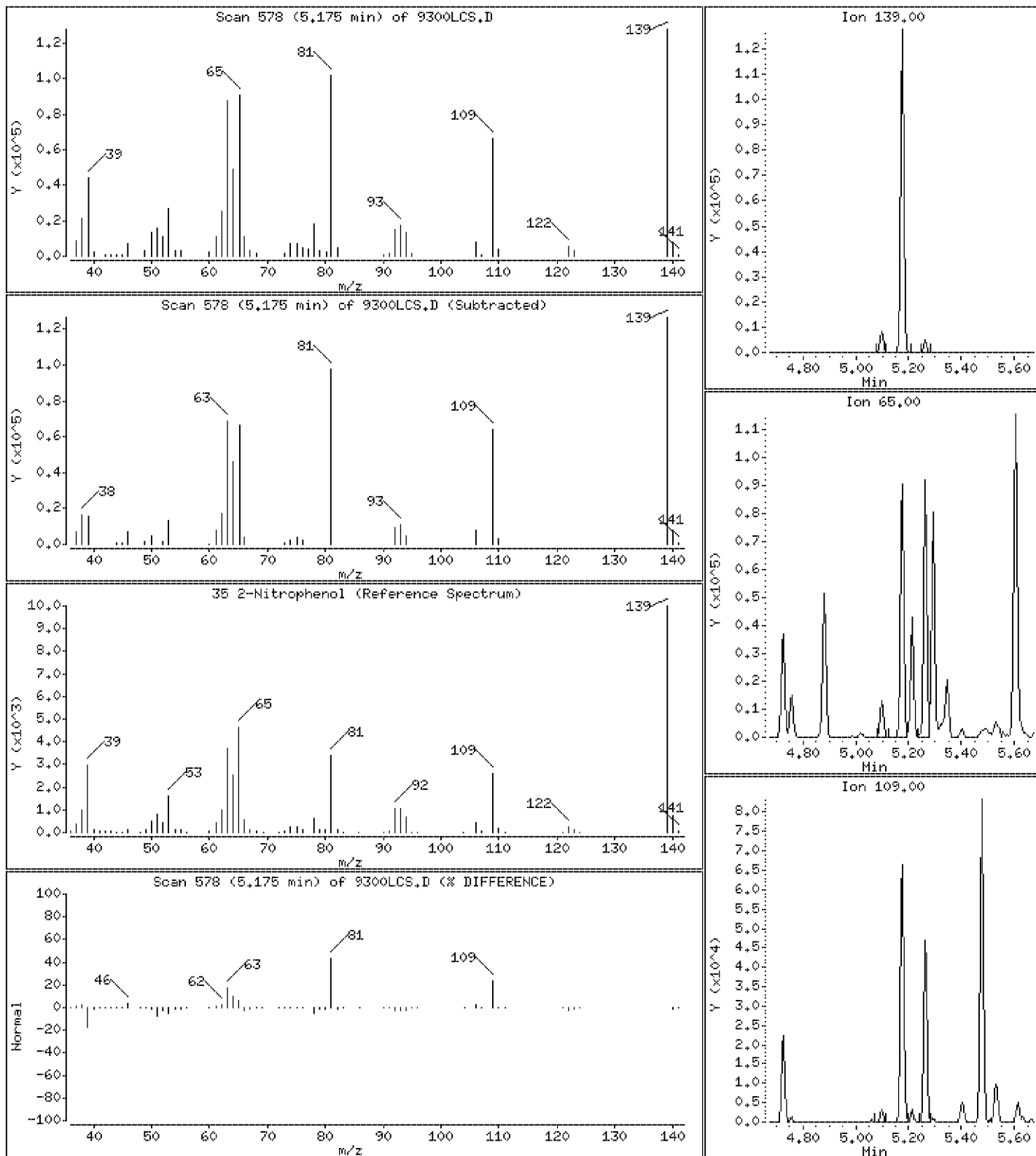
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

35 2-Nitrophenol

Concentration: 1460 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

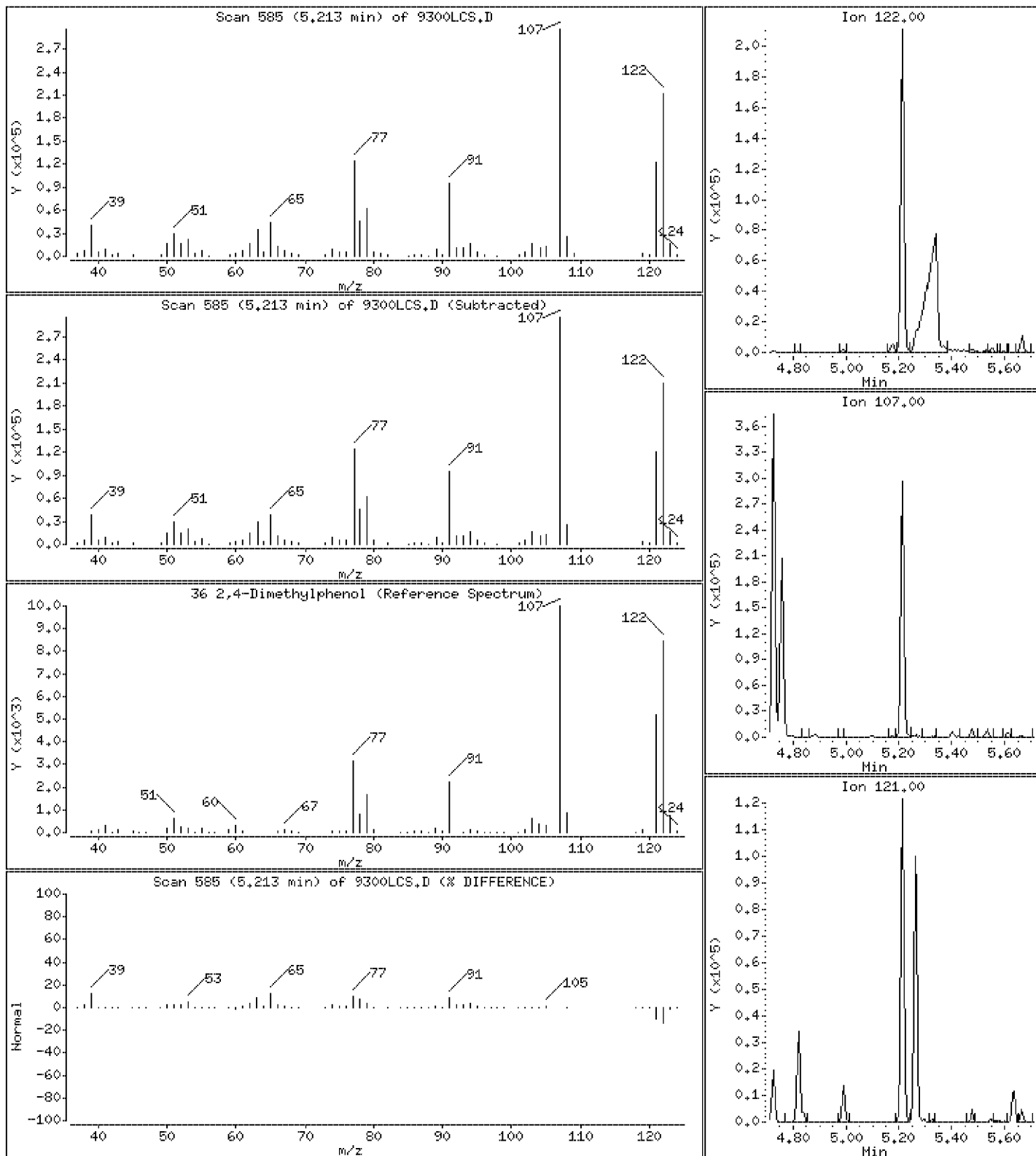
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

36 2,4-Dimethylphenol

Concentration: 1600 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

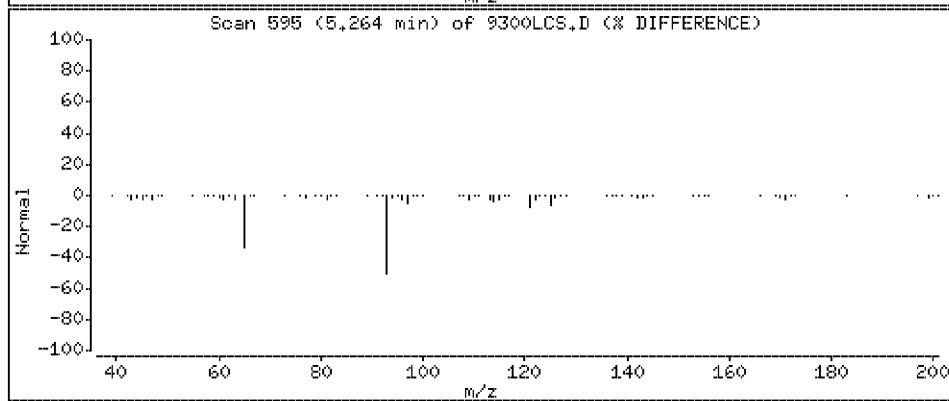
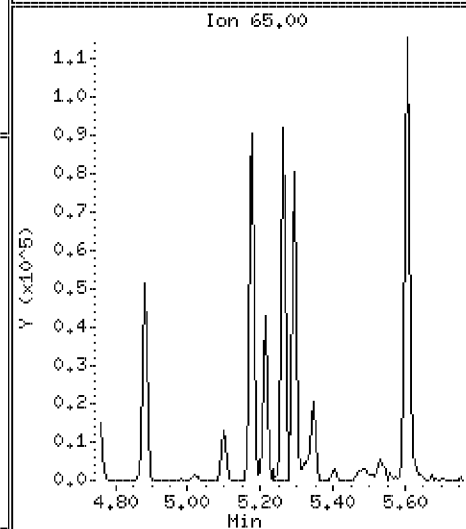
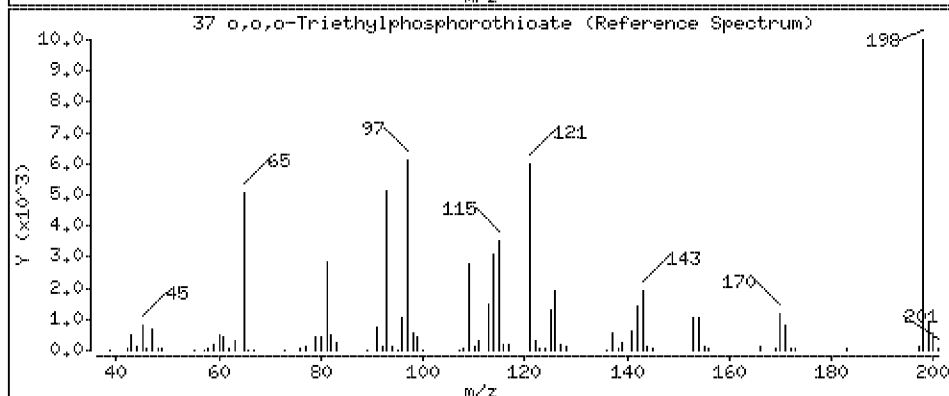
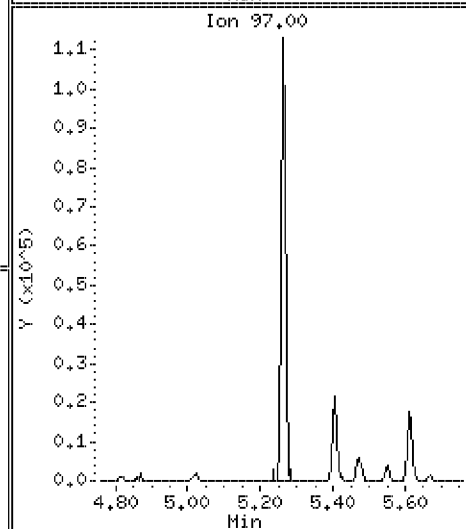
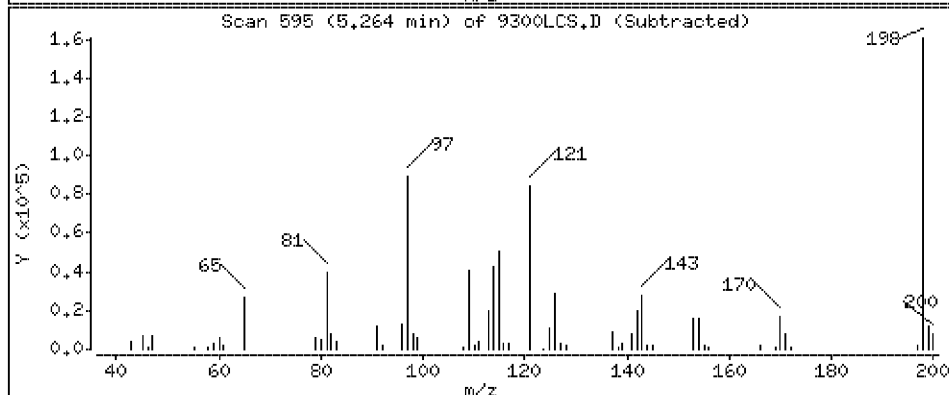
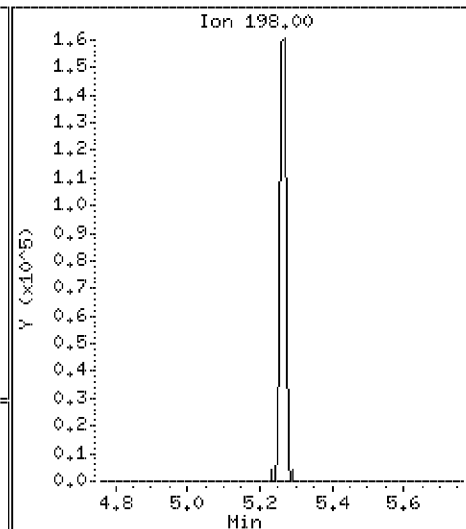
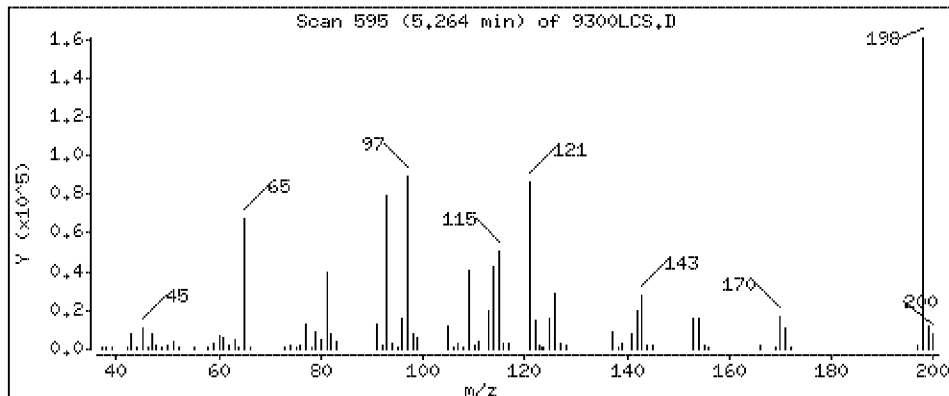
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

37 o,o,o-Triethylphosphorothioate

Concentration: 1320 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

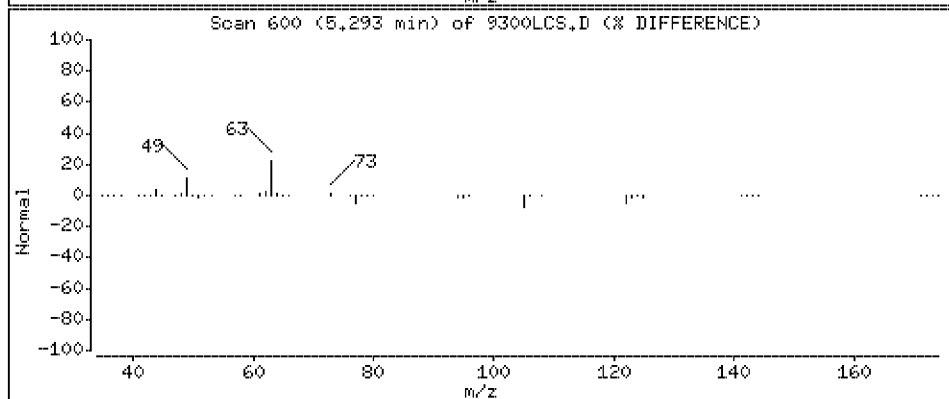
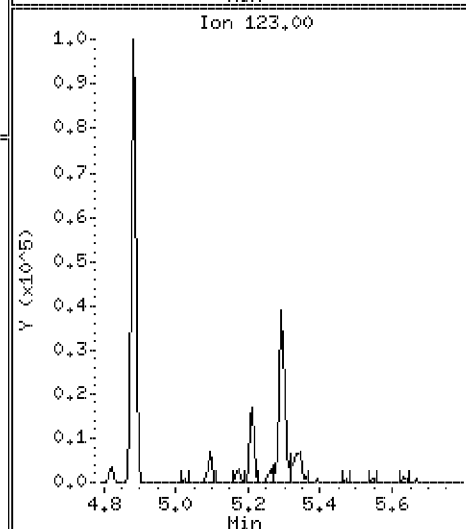
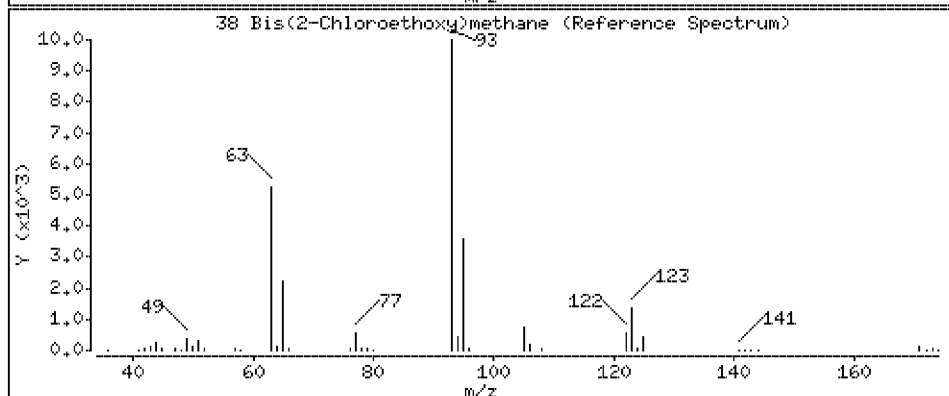
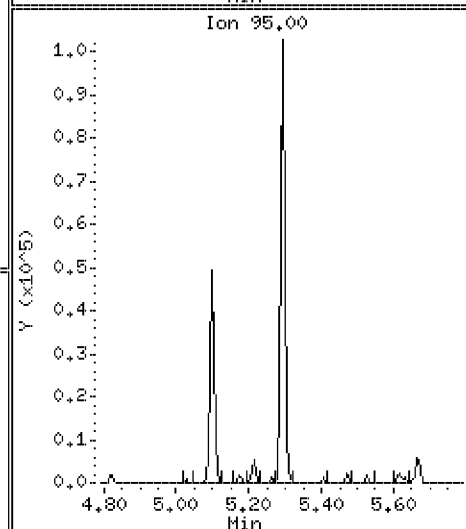
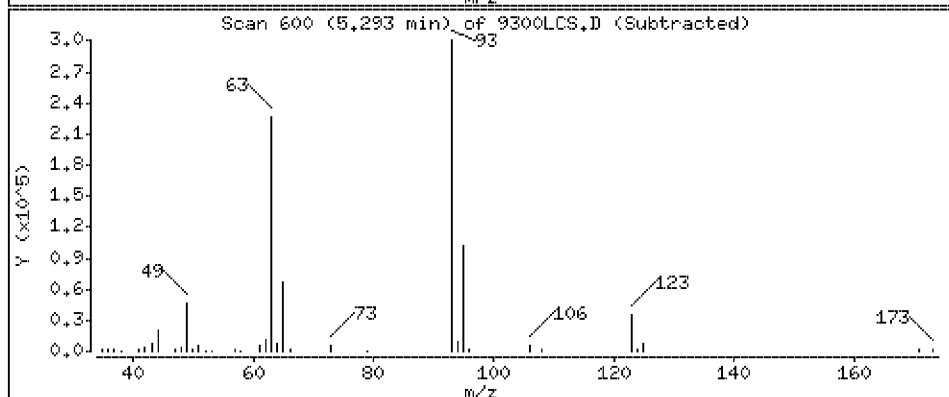
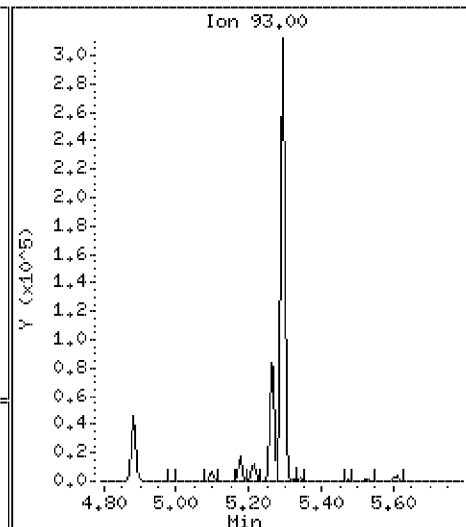
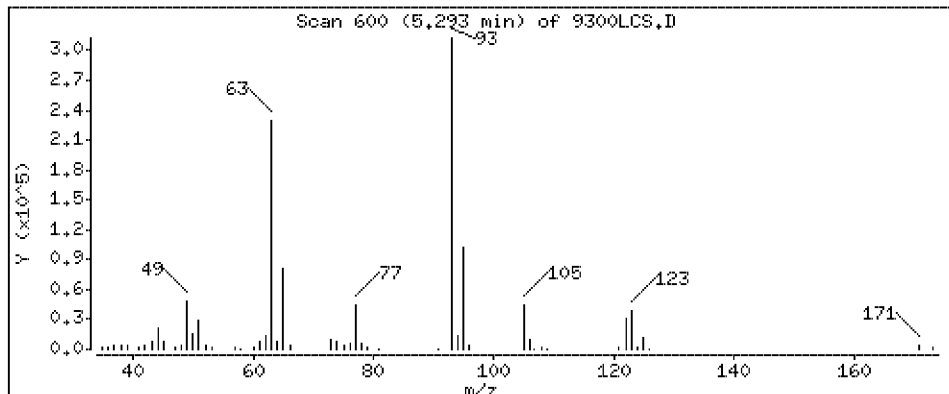
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

38 Bis(2-Chloroethoxy)methane

Concentration: 1550 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

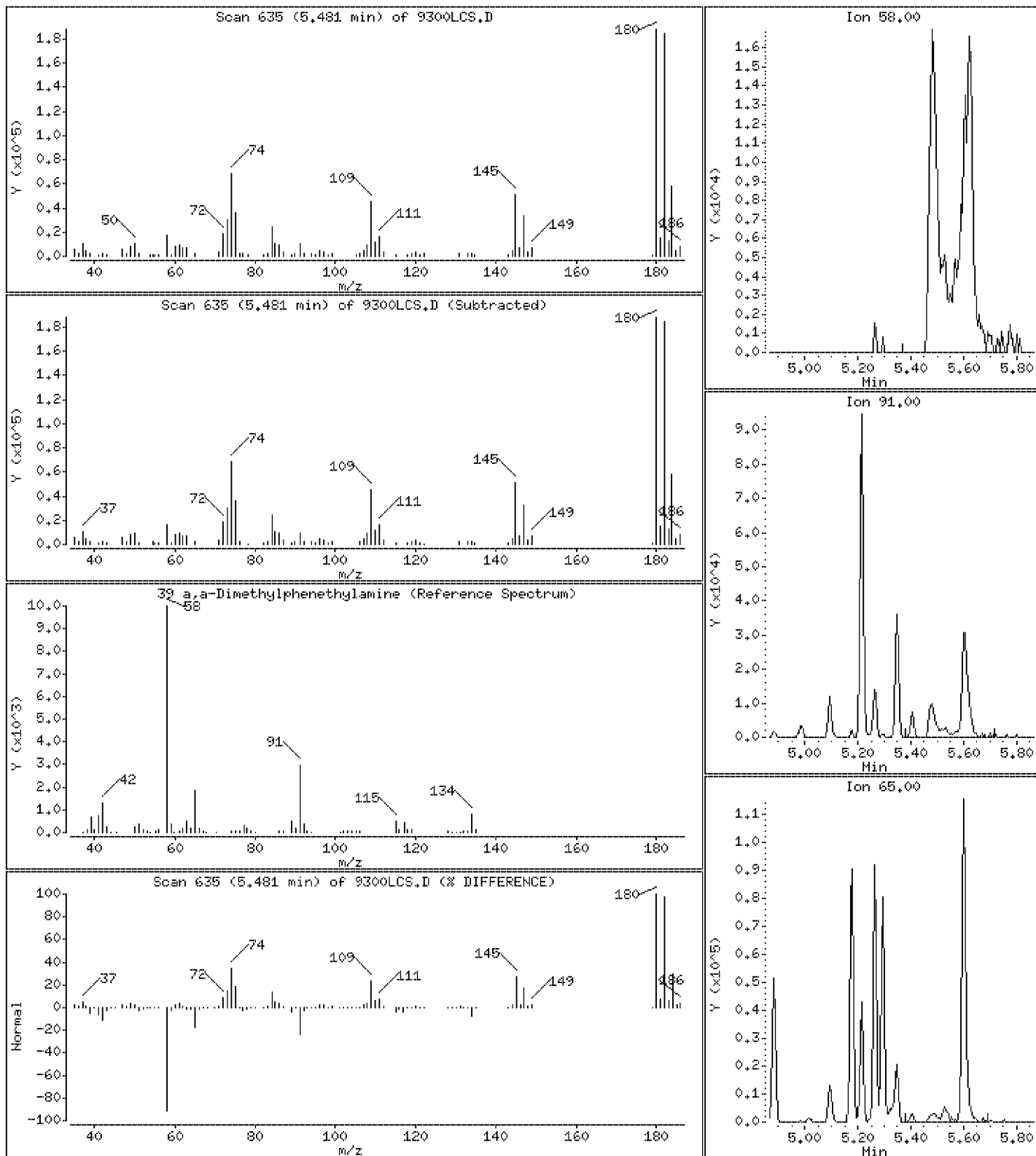
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

39 a,a-Dimethylphenethylamine

Concentration: 398 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

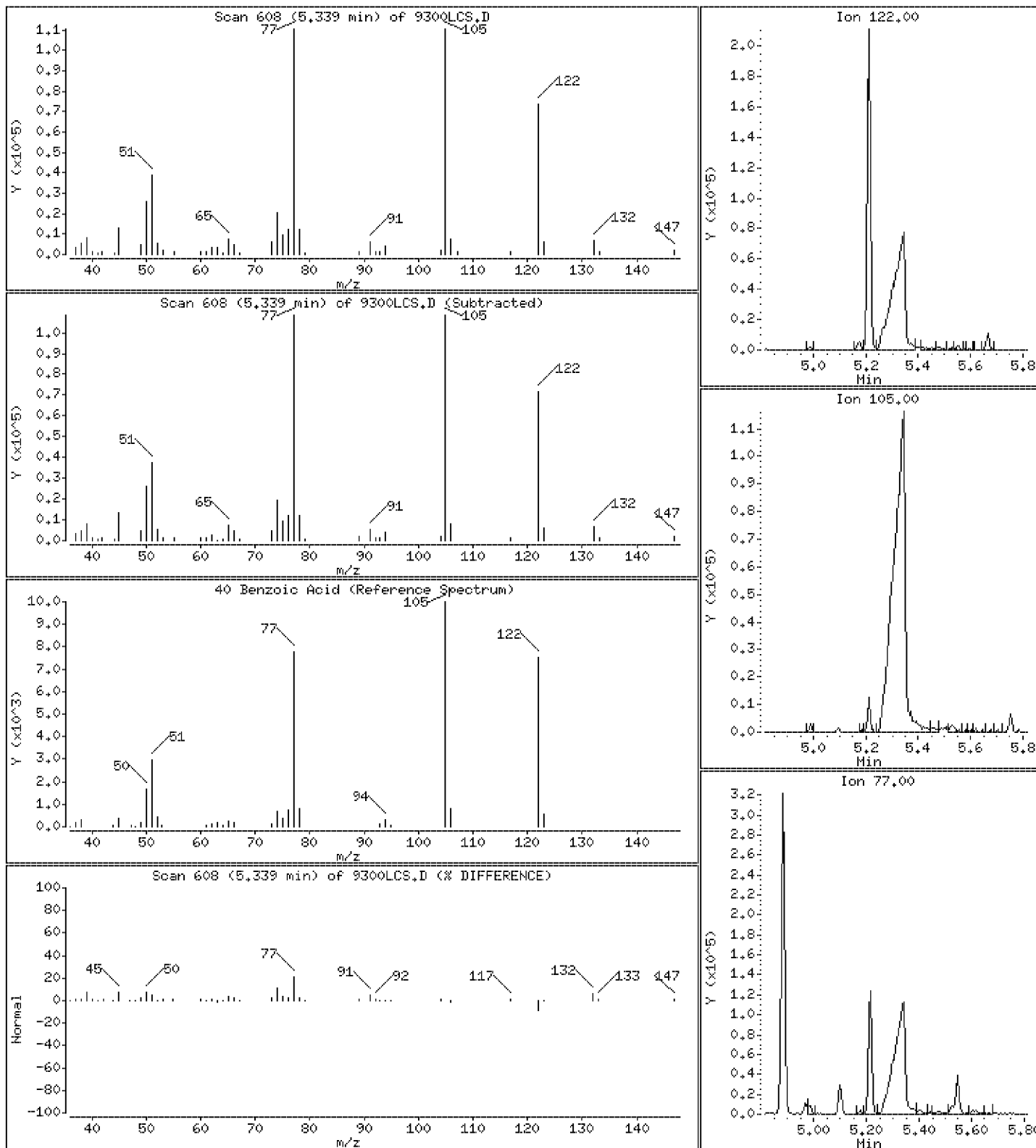
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

40 Benzoic Acid

Concentration: 2940 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

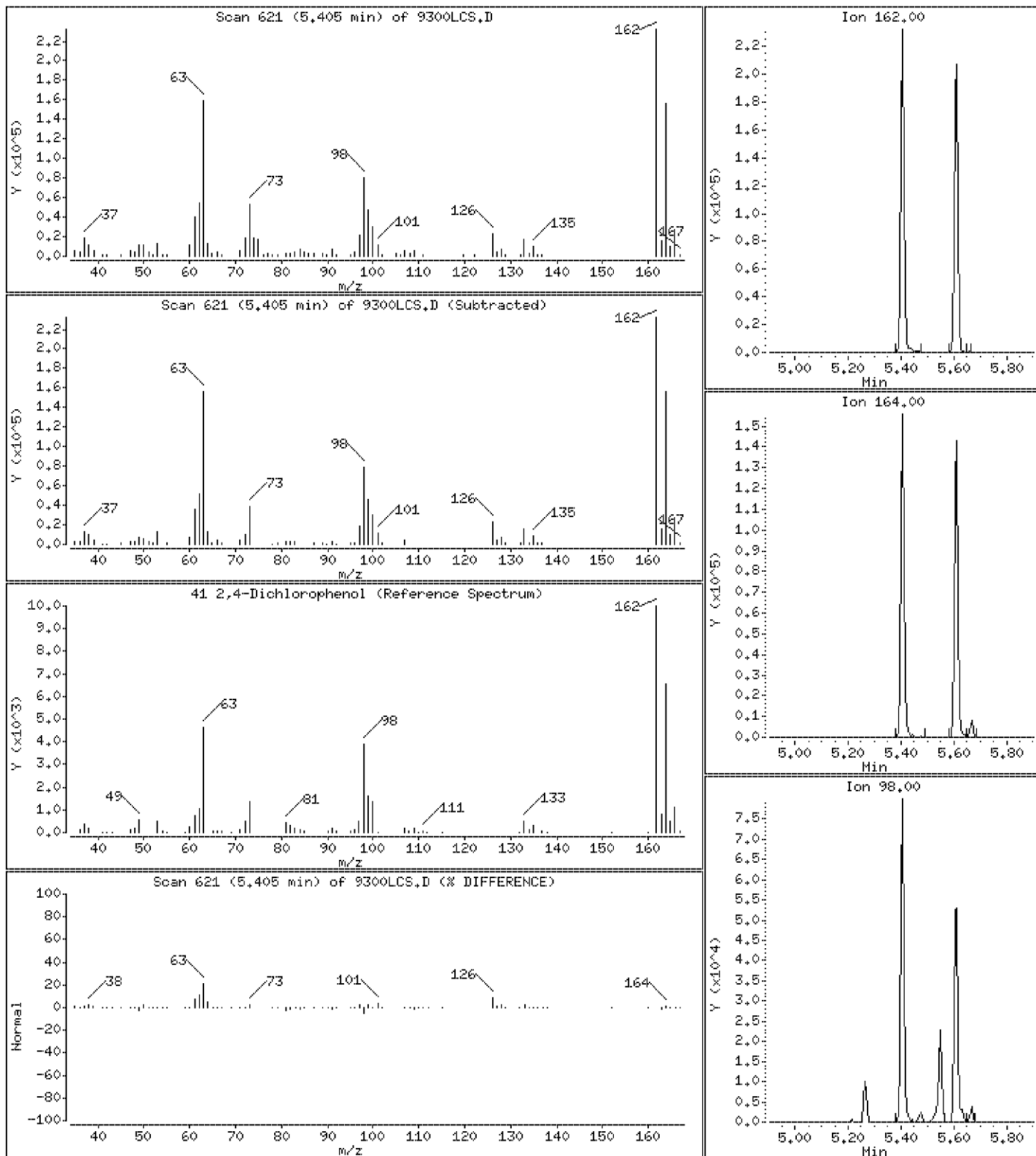
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

41 2,4-Dichlorophenol

Concentration: 1510 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

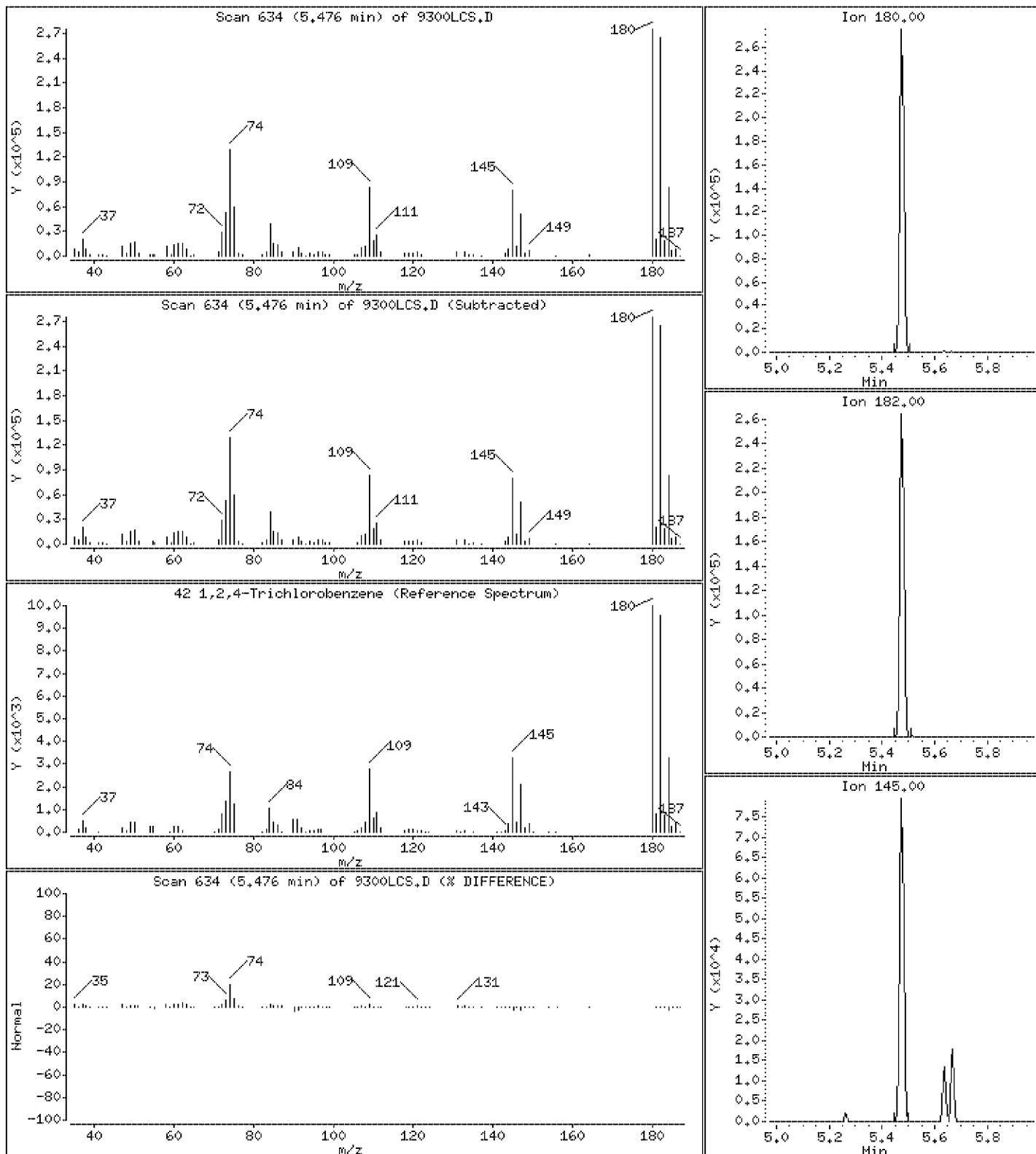
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

42 1,2,4-Trichlorobenzene

Concentration: 1420 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

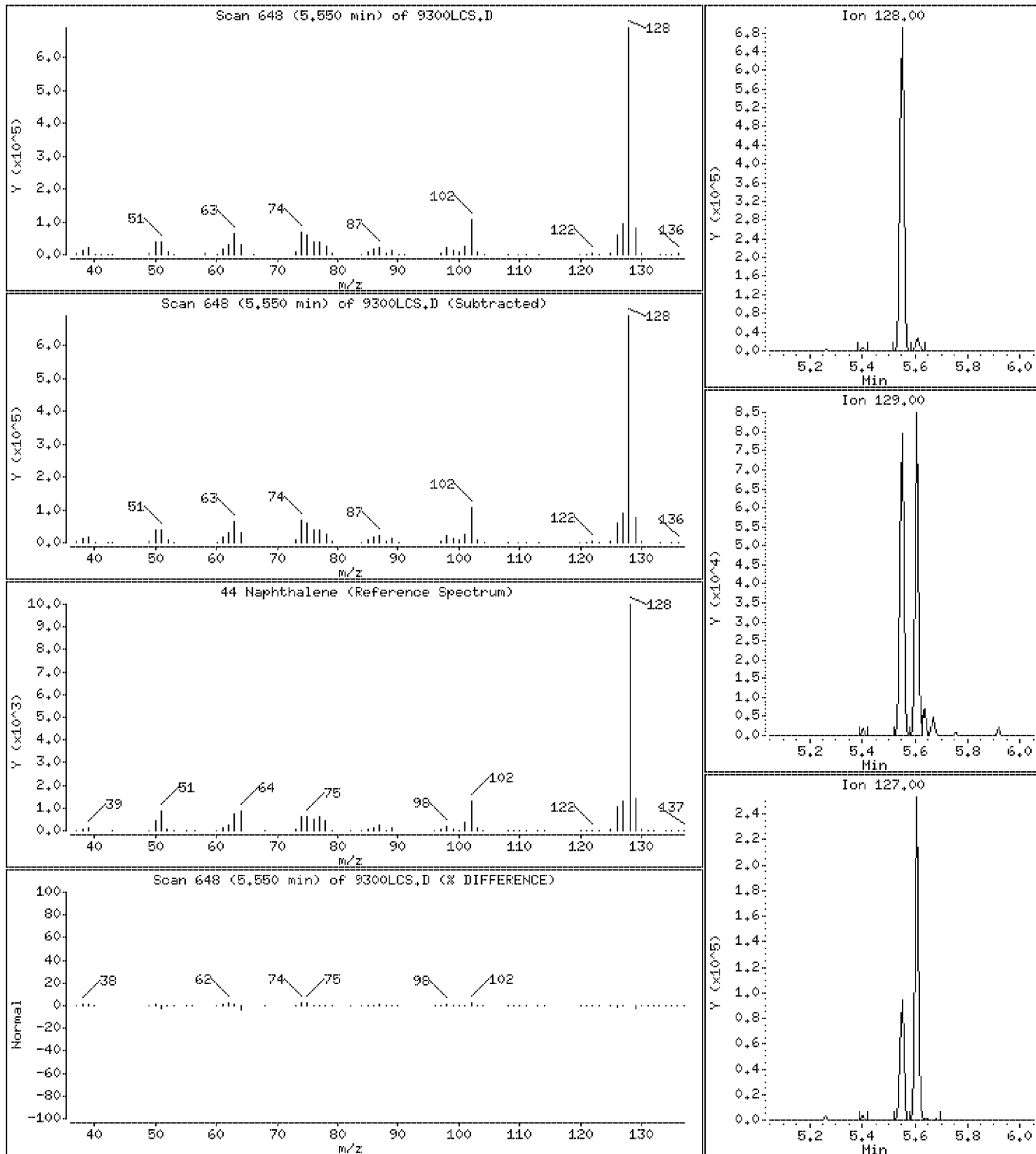
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

44 Naphthalene

Concentration: 1520 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

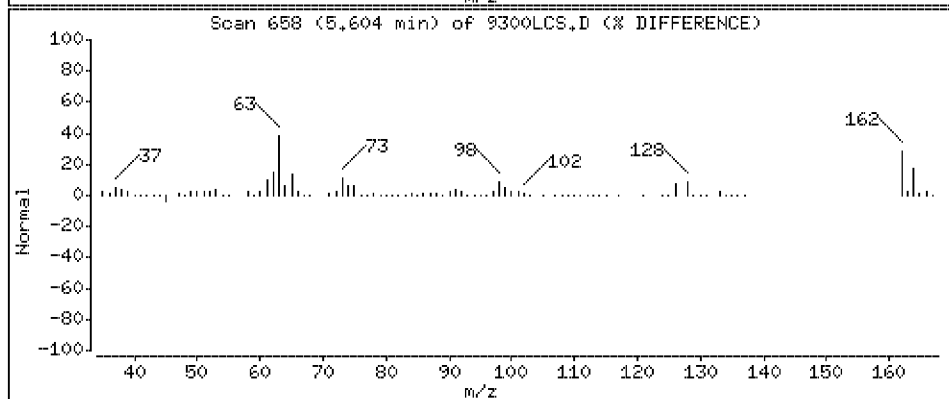
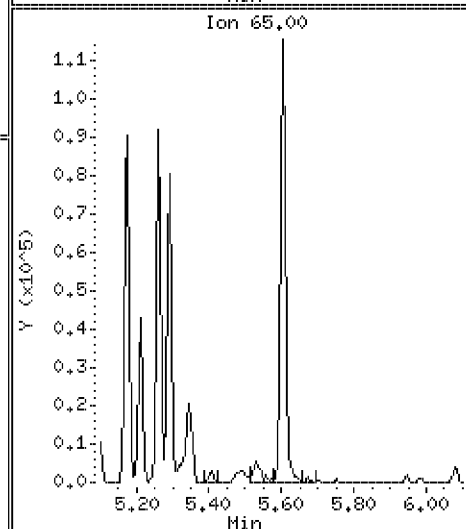
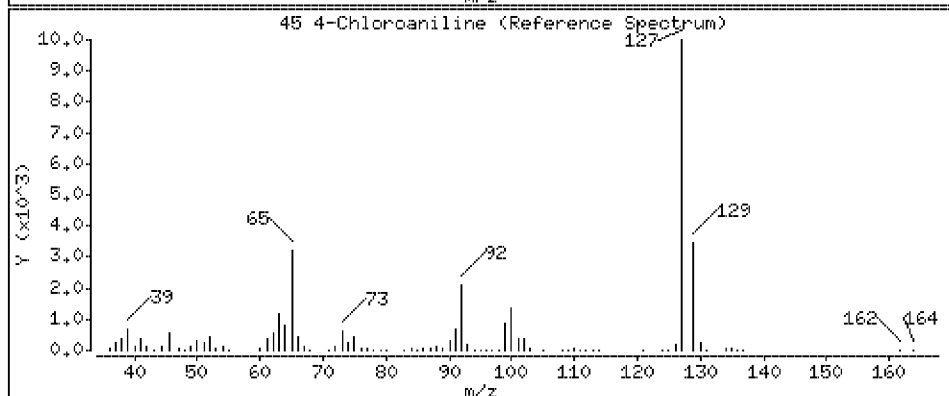
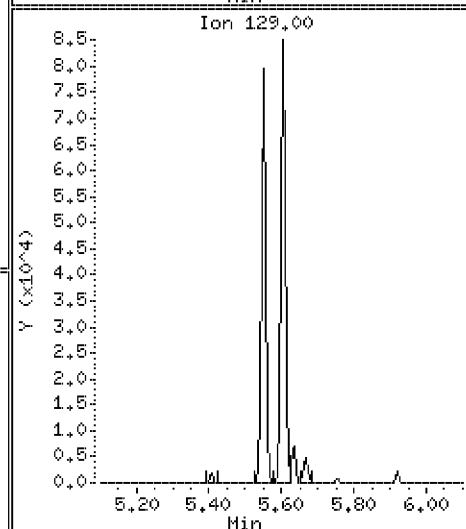
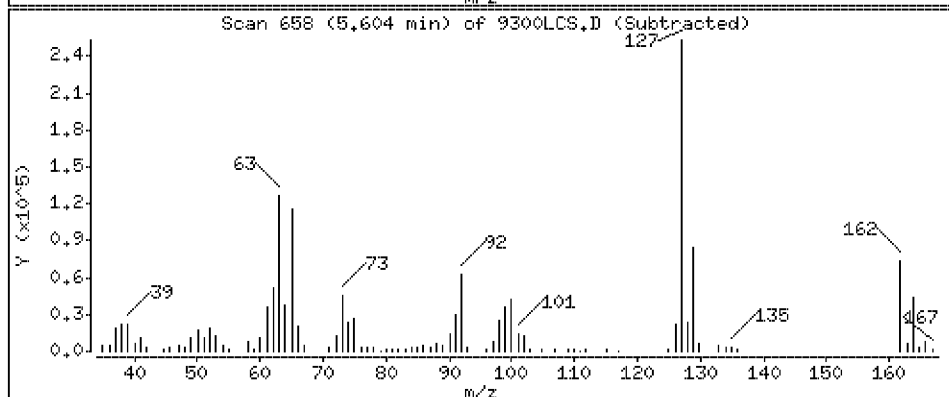
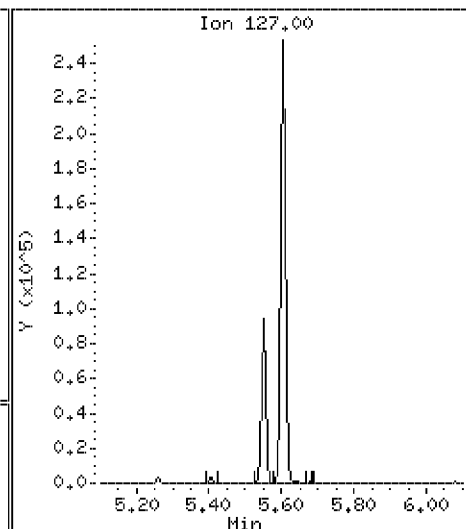
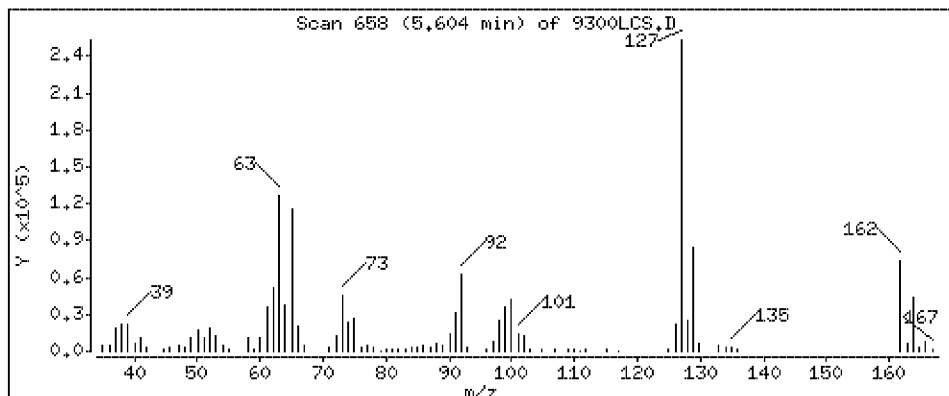
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

45 4-Chloroaniline

Concentration: 1430 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

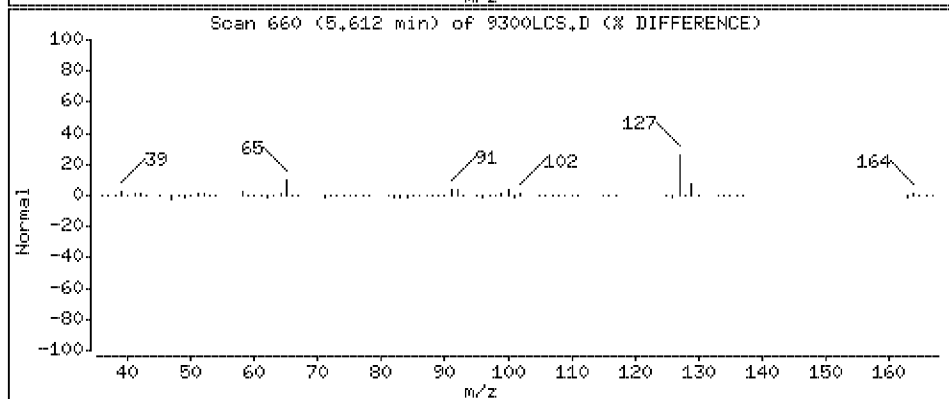
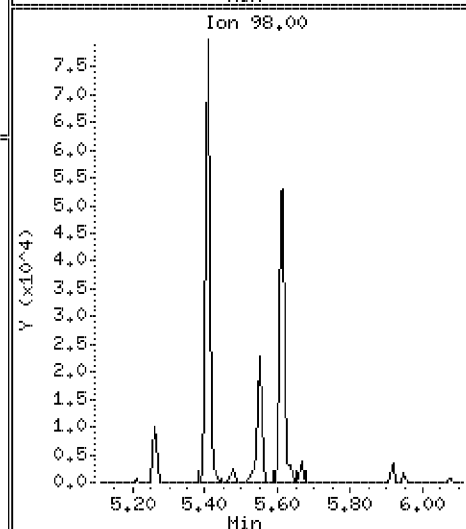
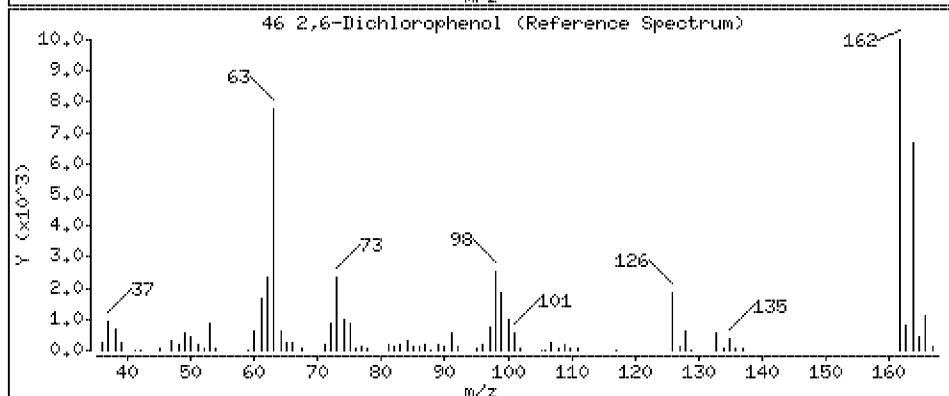
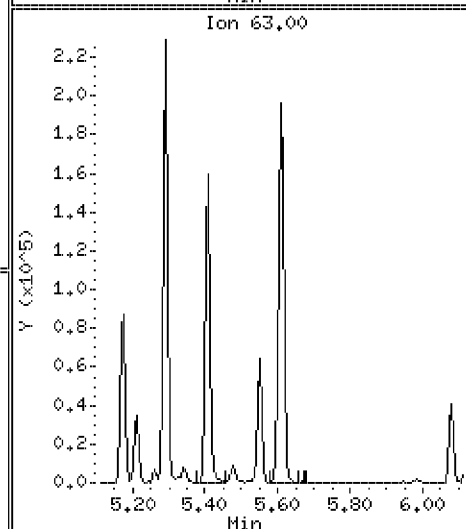
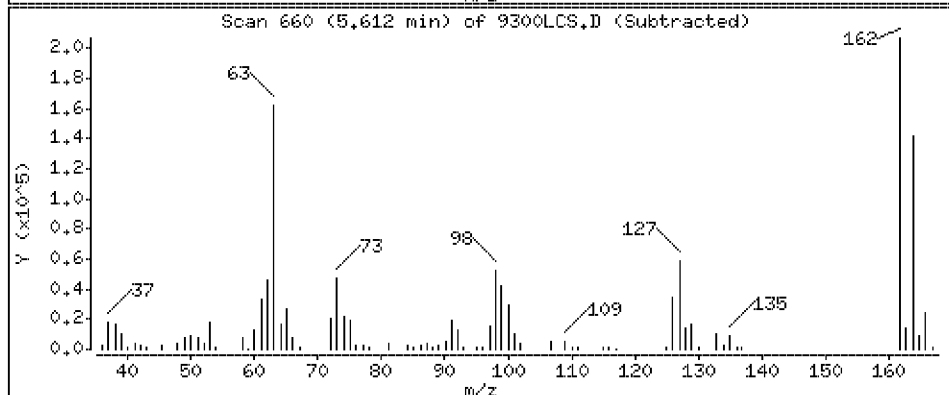
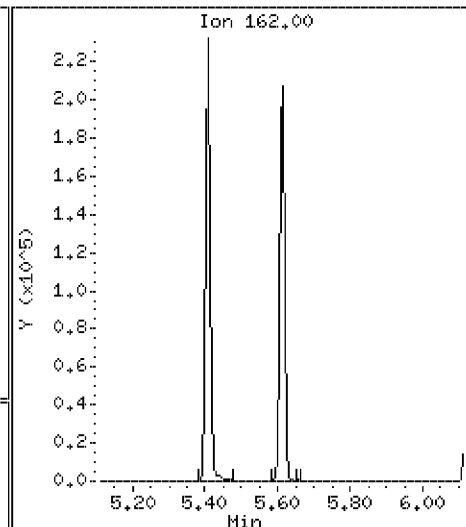
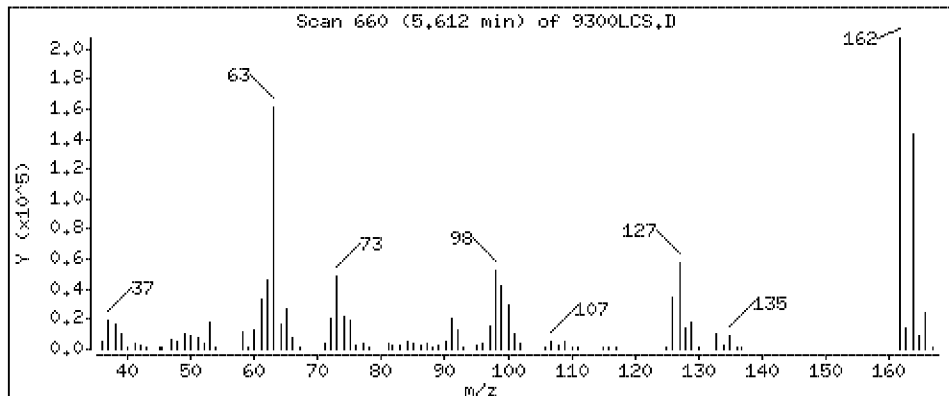
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

46 2,6-Dichlorophenol

Concentration: 1560 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

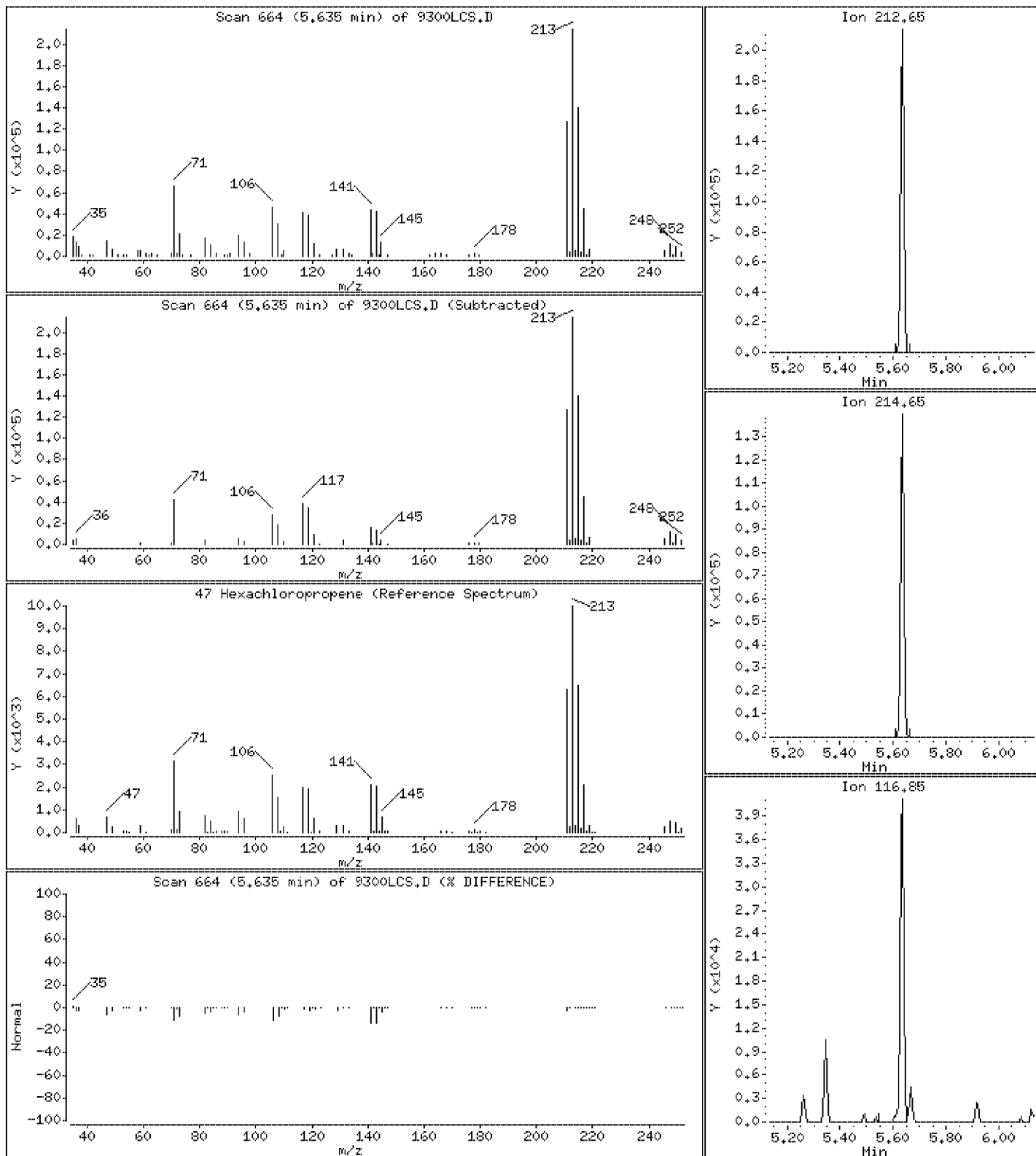
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

47 Hexachloropropene

Concentration: 1110 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

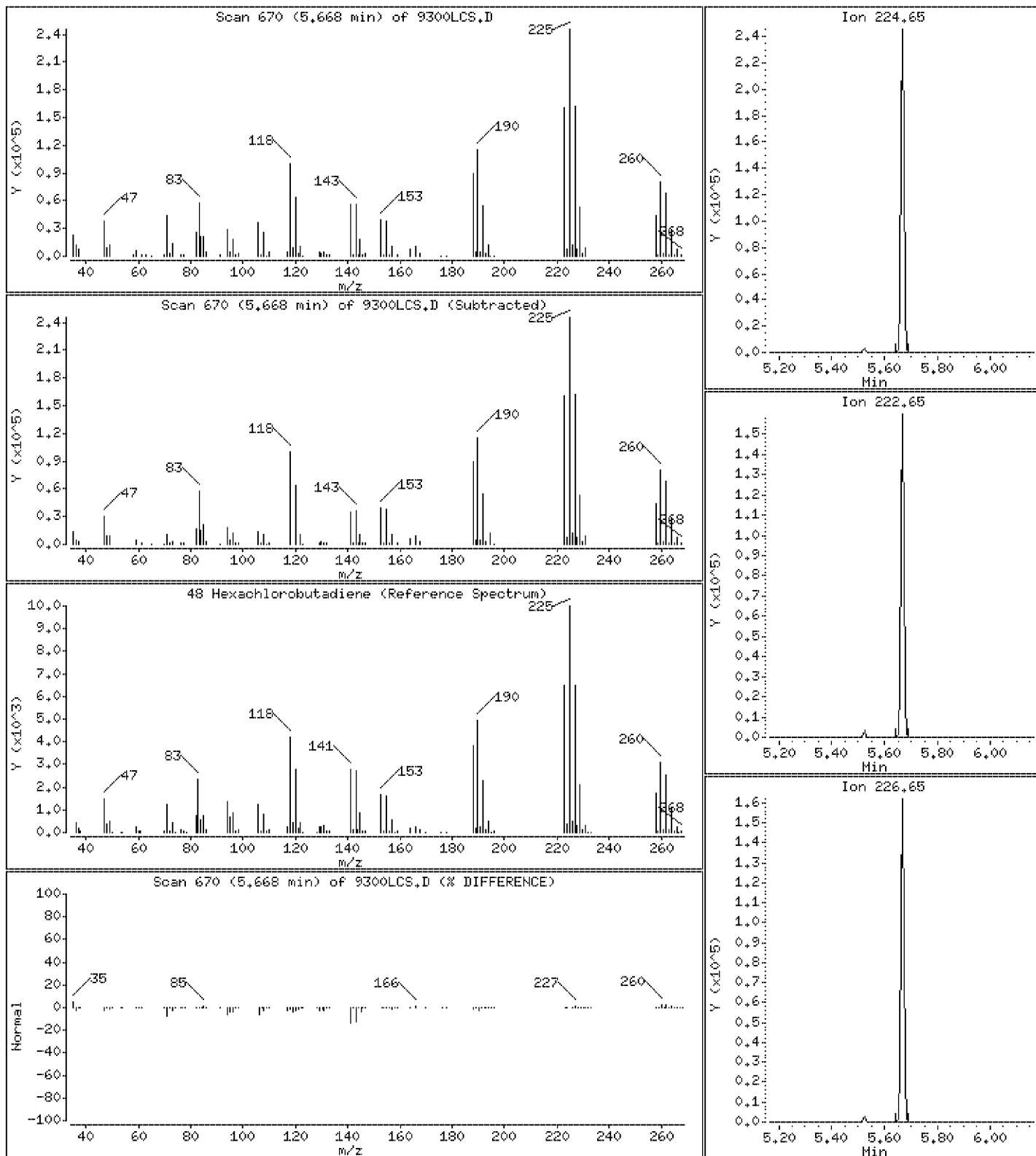
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

48 Hexachlorobutadiene

Concentration: 1630 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

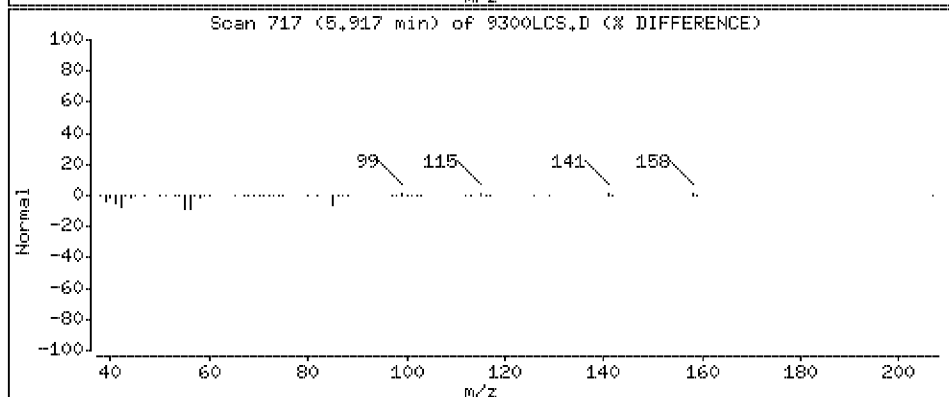
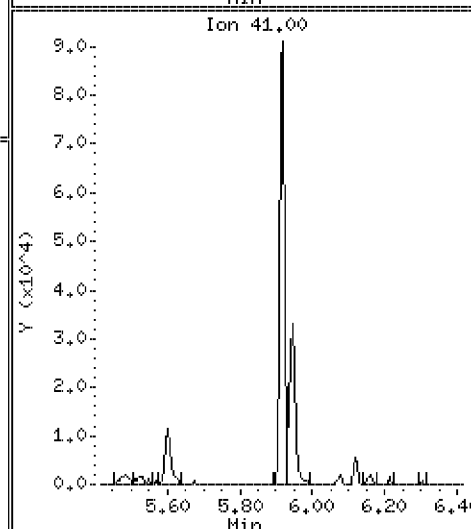
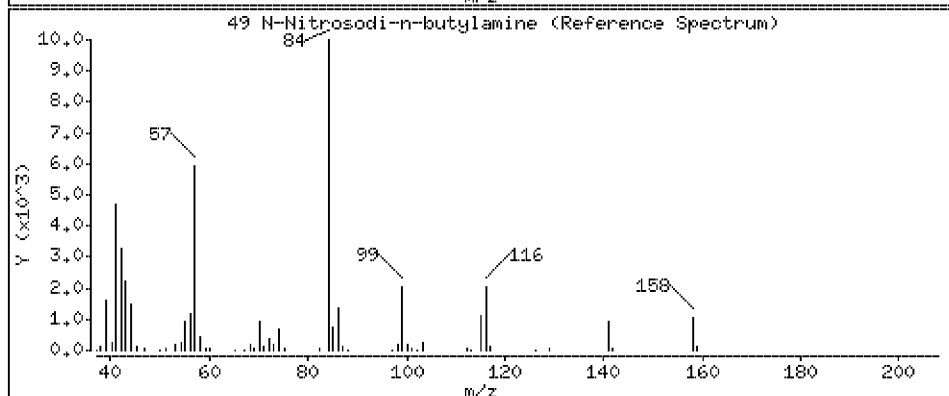
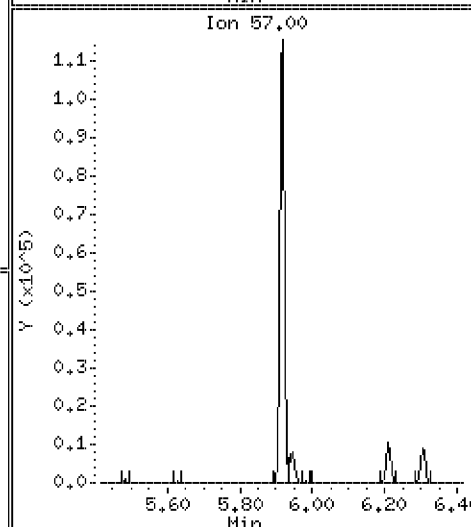
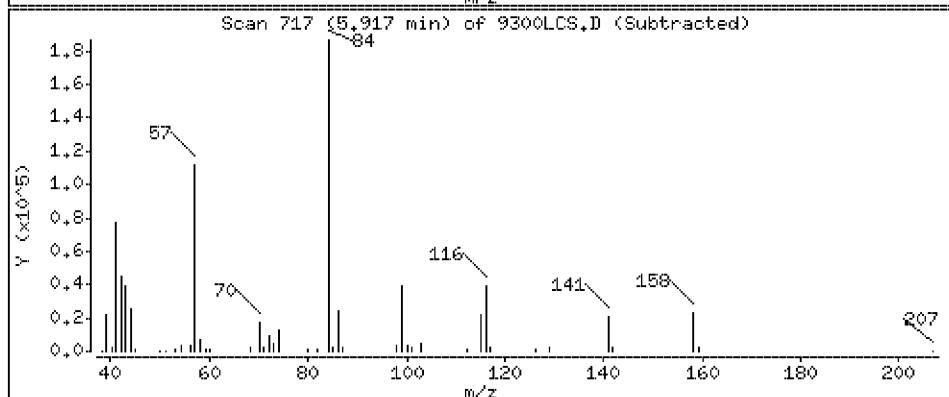
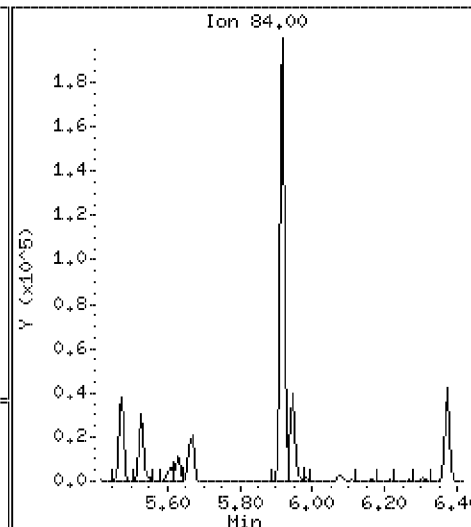
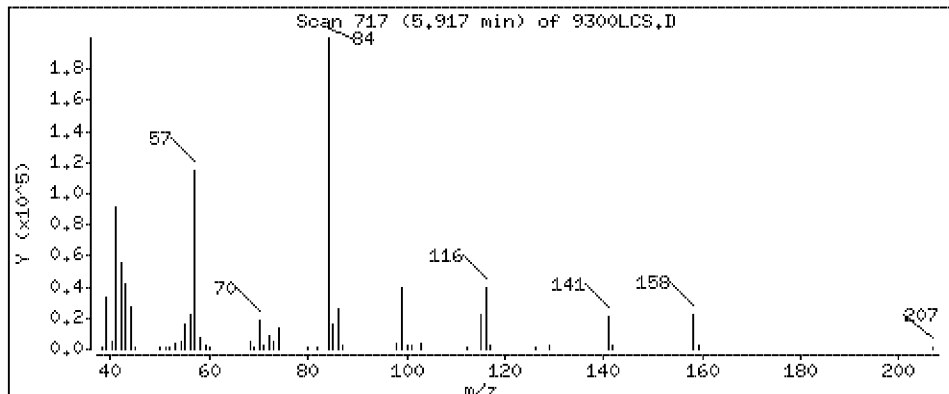
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

49 N-Nitrosodi-n-butylamine

Concentration: 1390 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

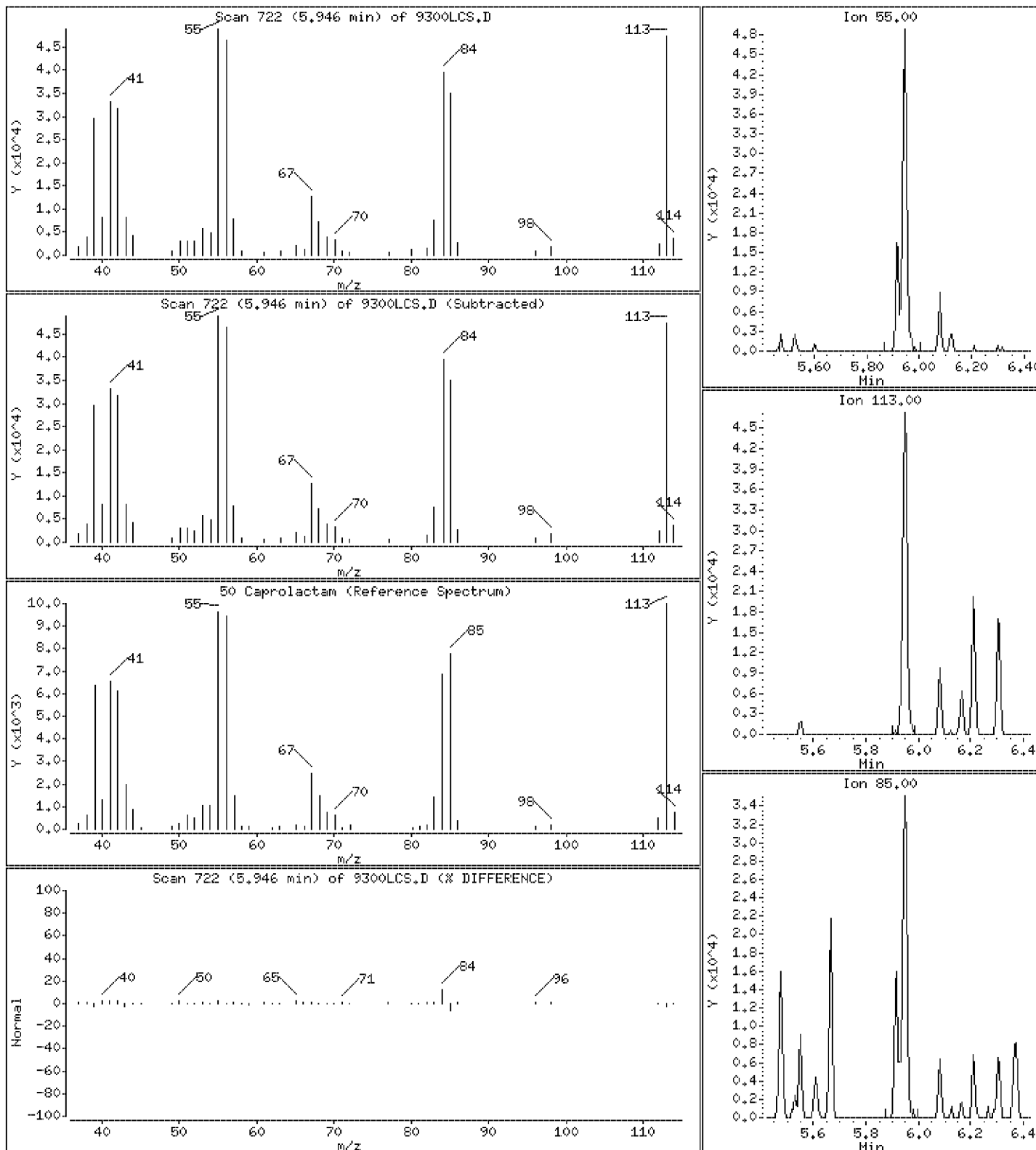
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

50 Caprolactam

Concentration: 1620 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

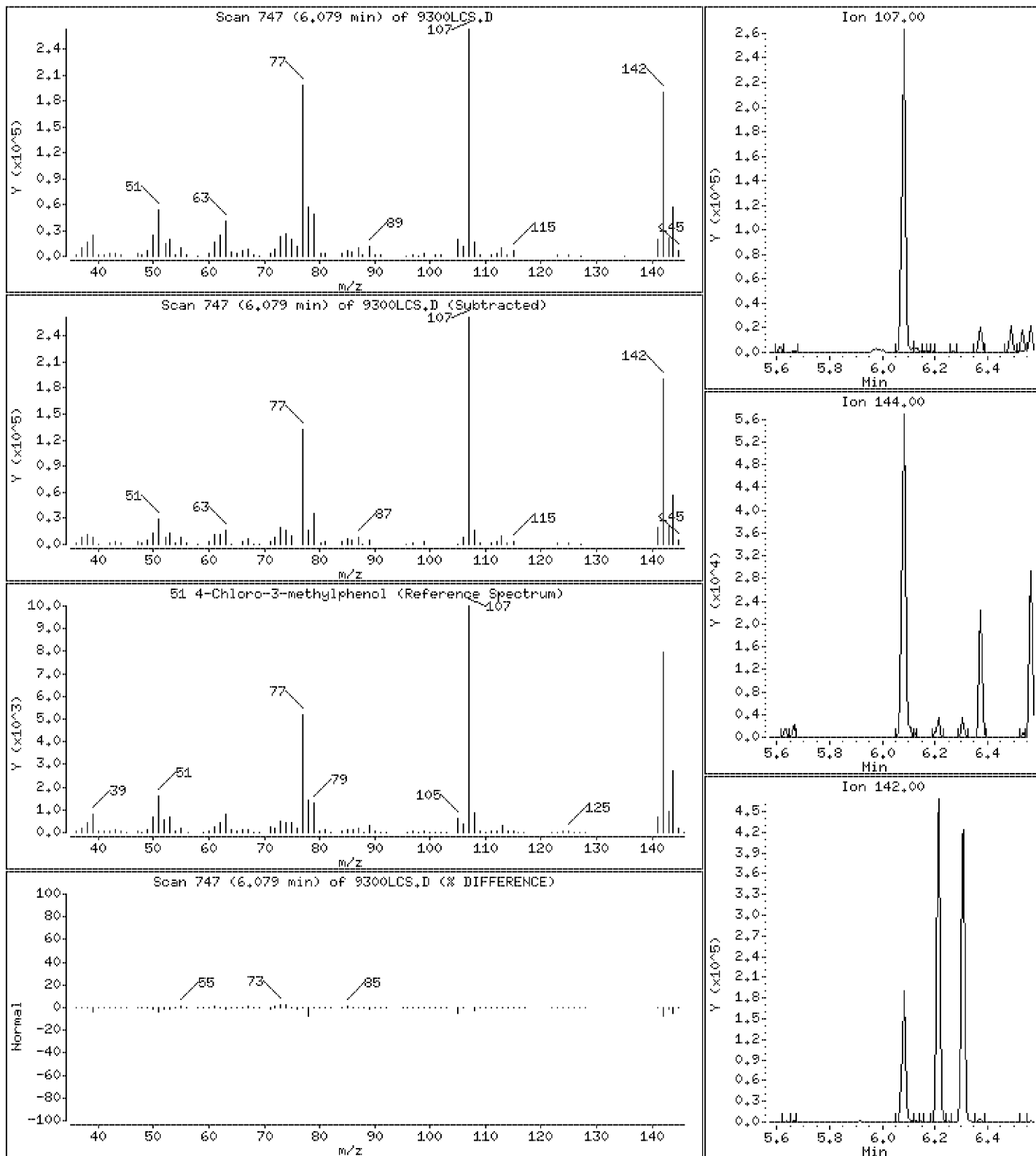
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

51 4-Chloro-3-methylphenol

Concentration: 1670 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

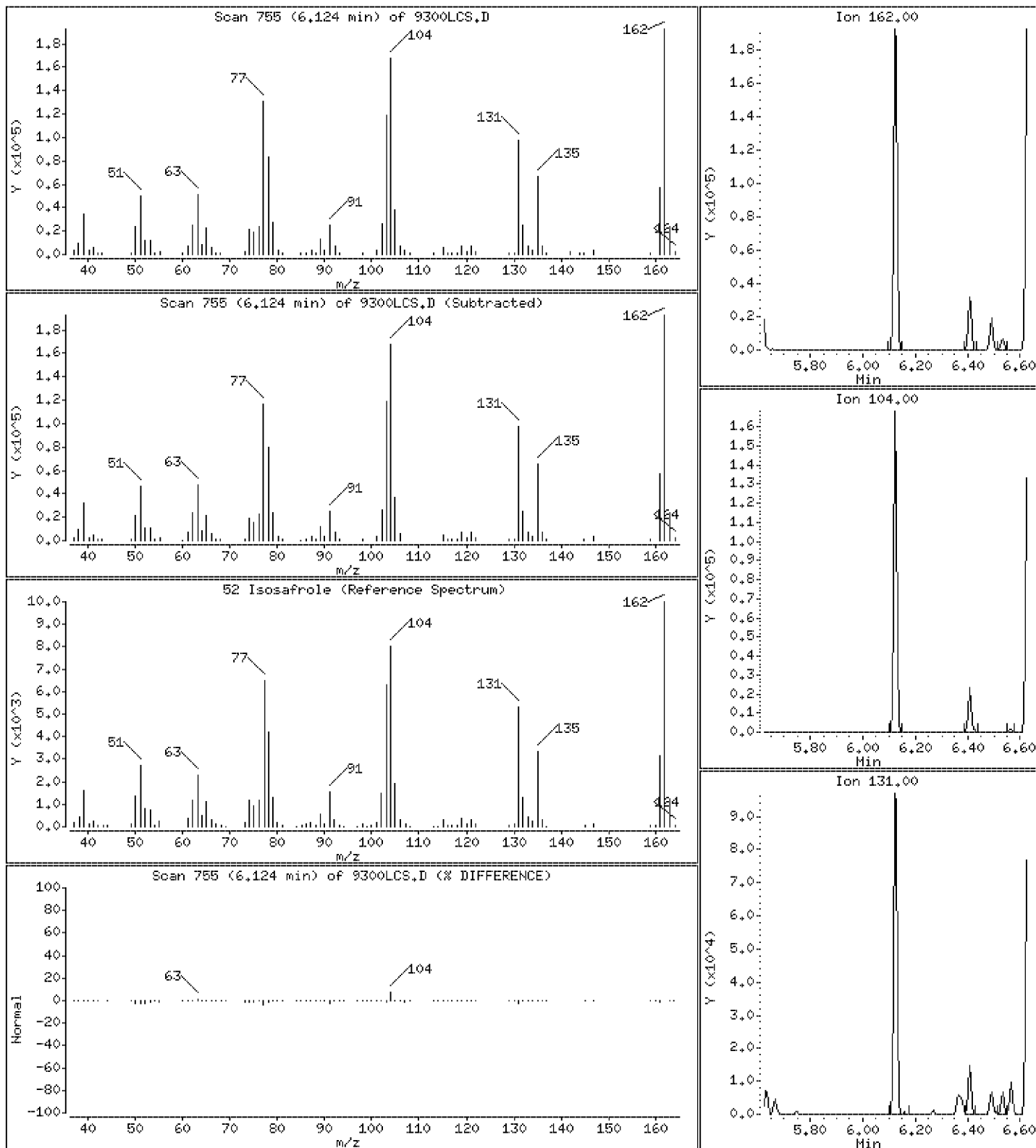
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

52 Isosafrole

Concentration: 1450 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

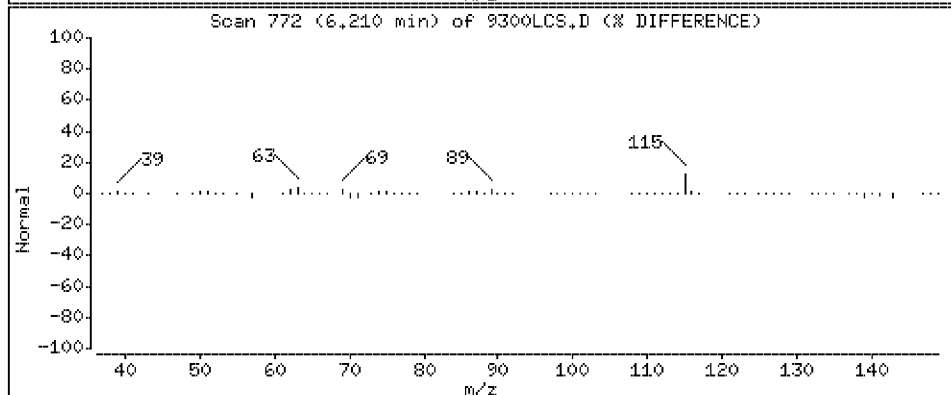
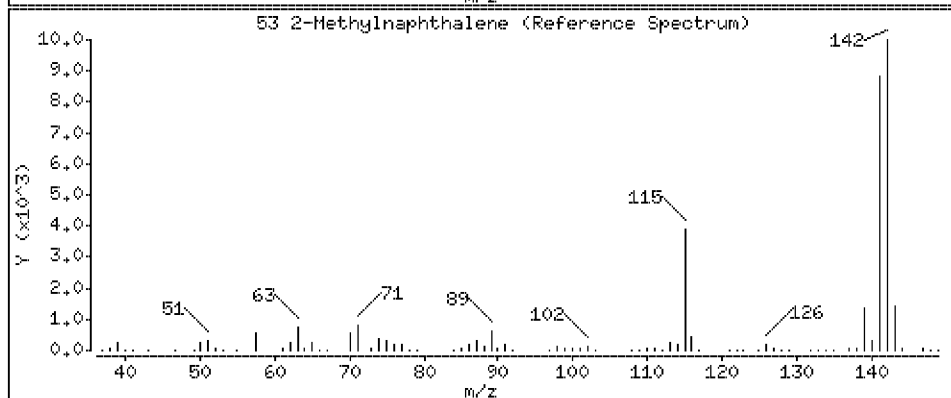
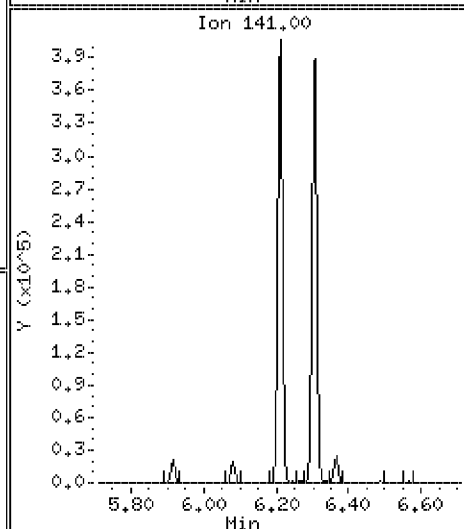
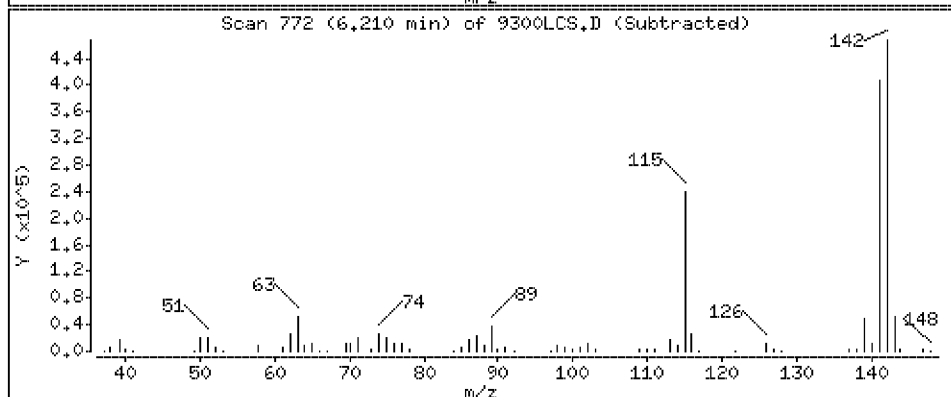
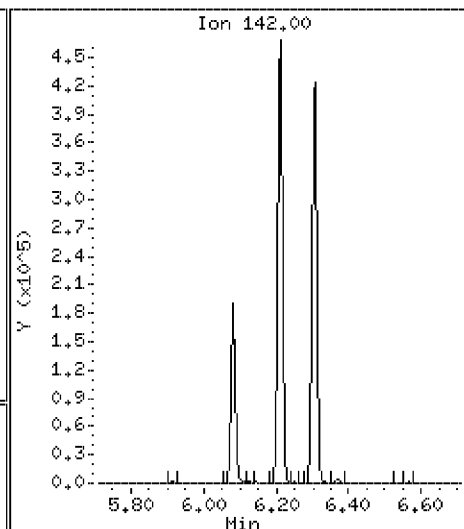
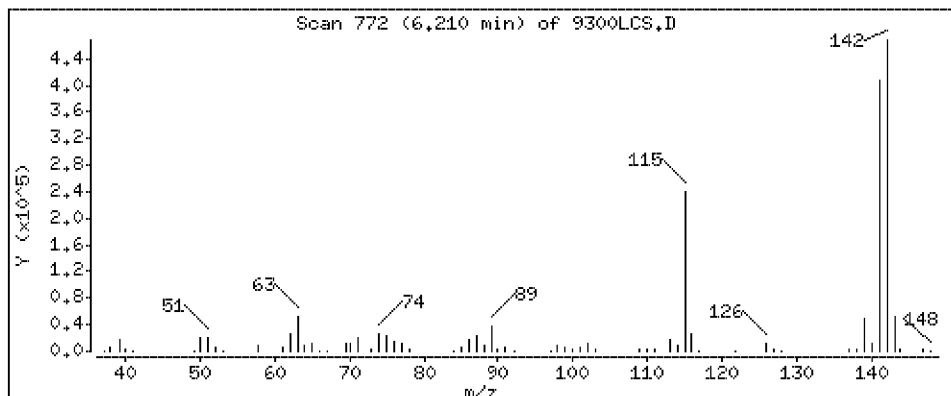
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

53 2-Methylnaphthalene

Concentration: 1520 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

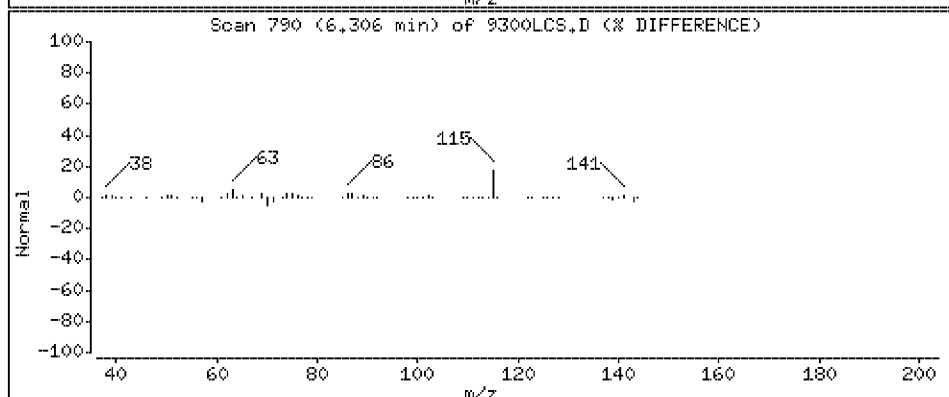
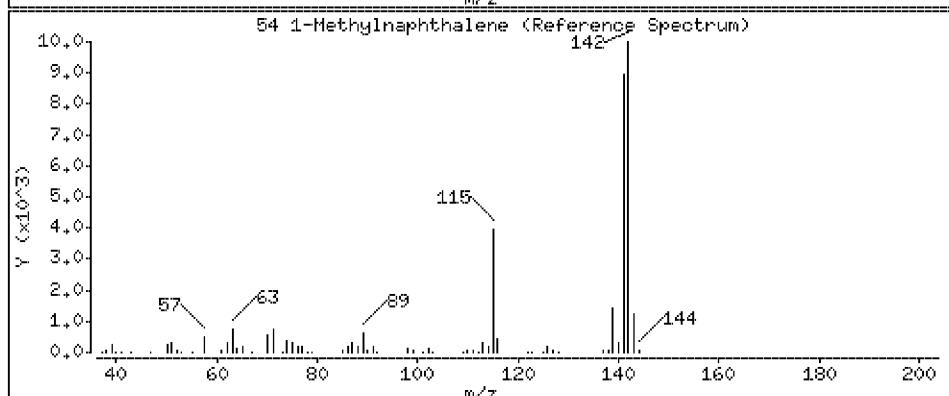
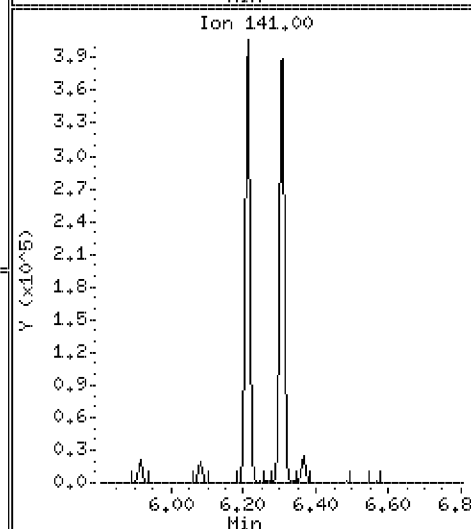
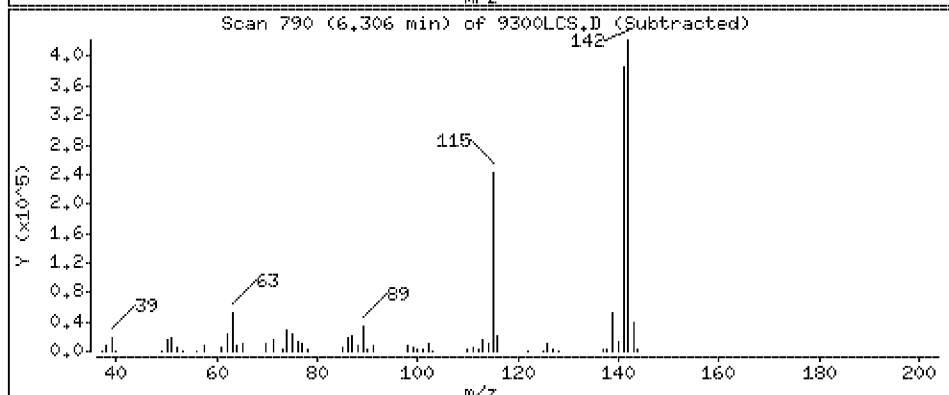
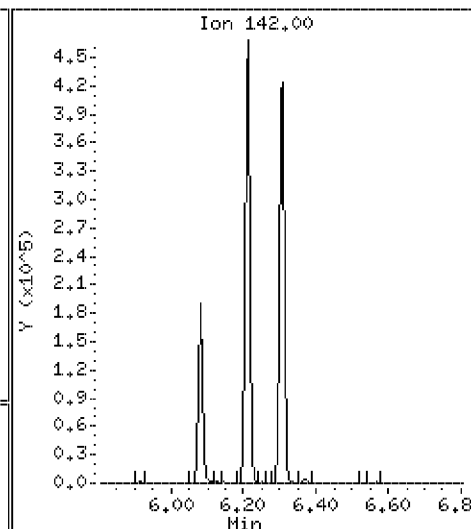
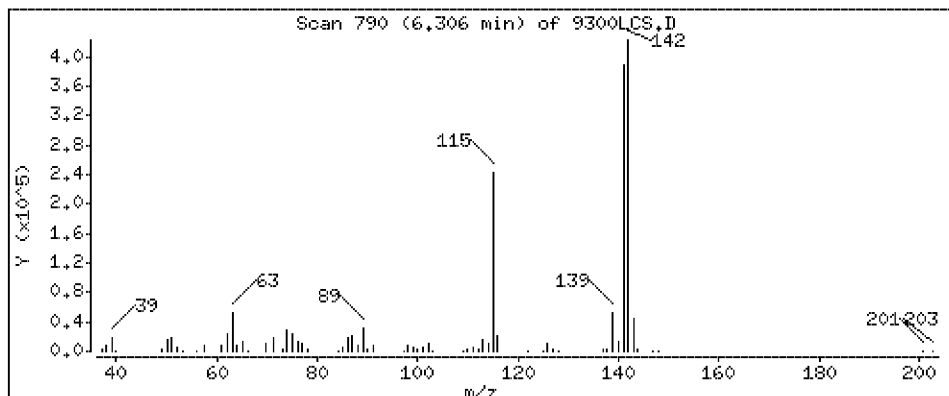
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

54 1-Methylnaphthalene

Concentration: 1580 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

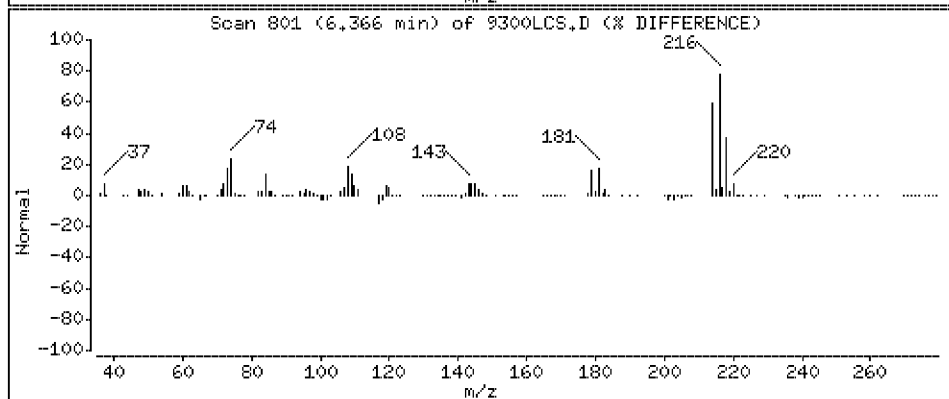
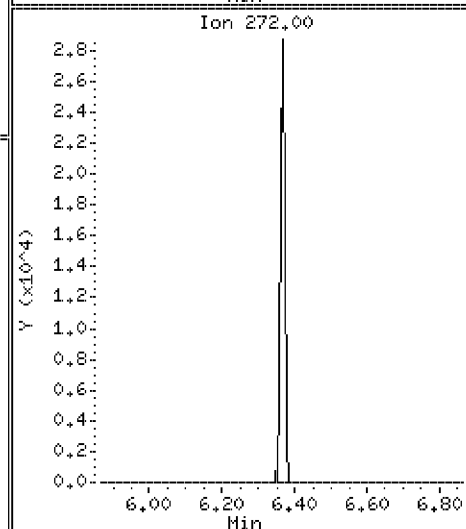
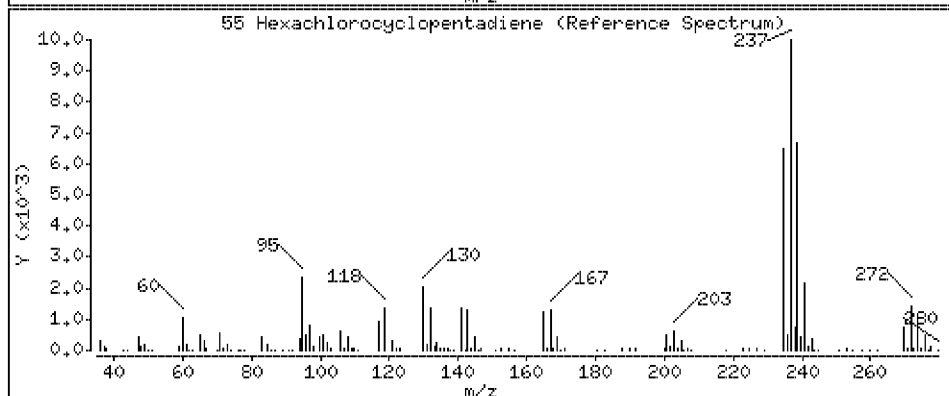
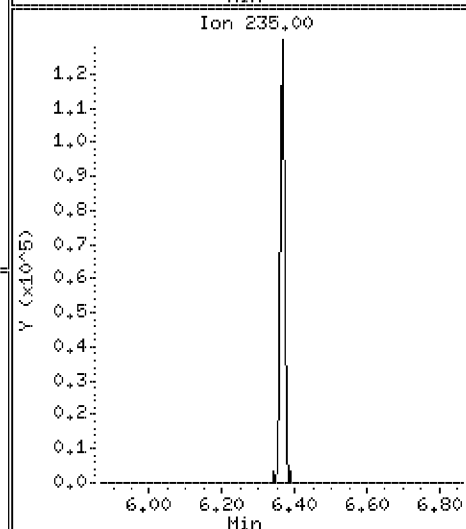
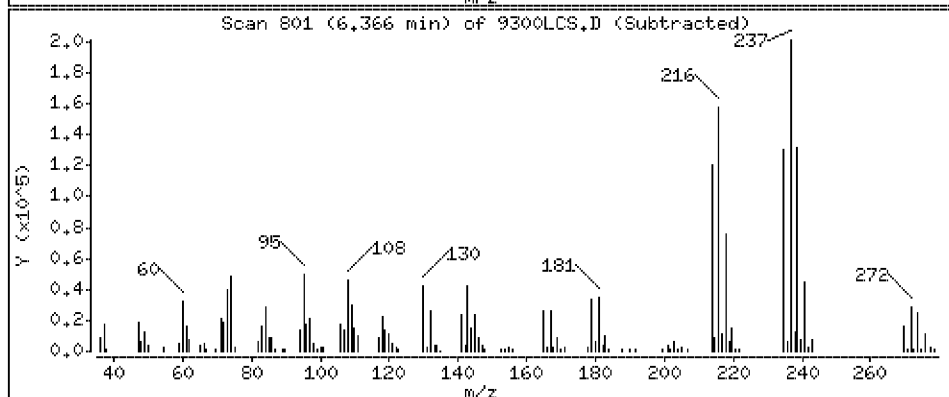
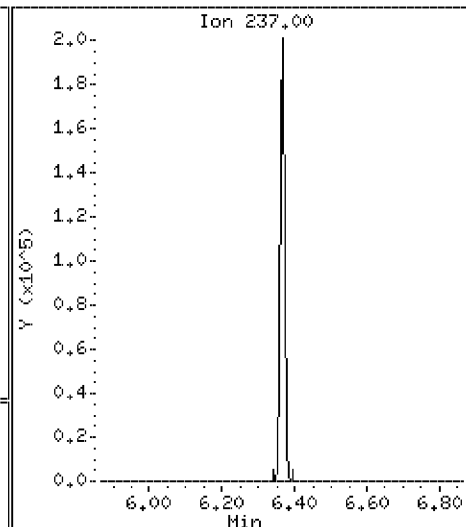
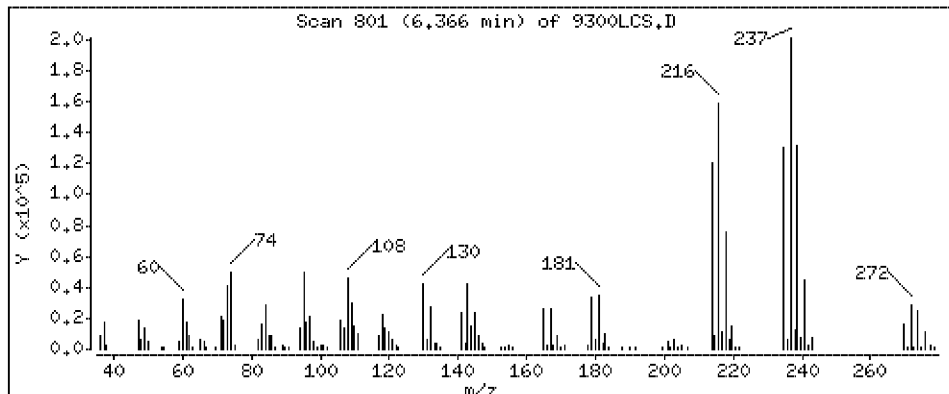
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

55 Hexachlorocyclopentadiene

Concentration: 1060 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

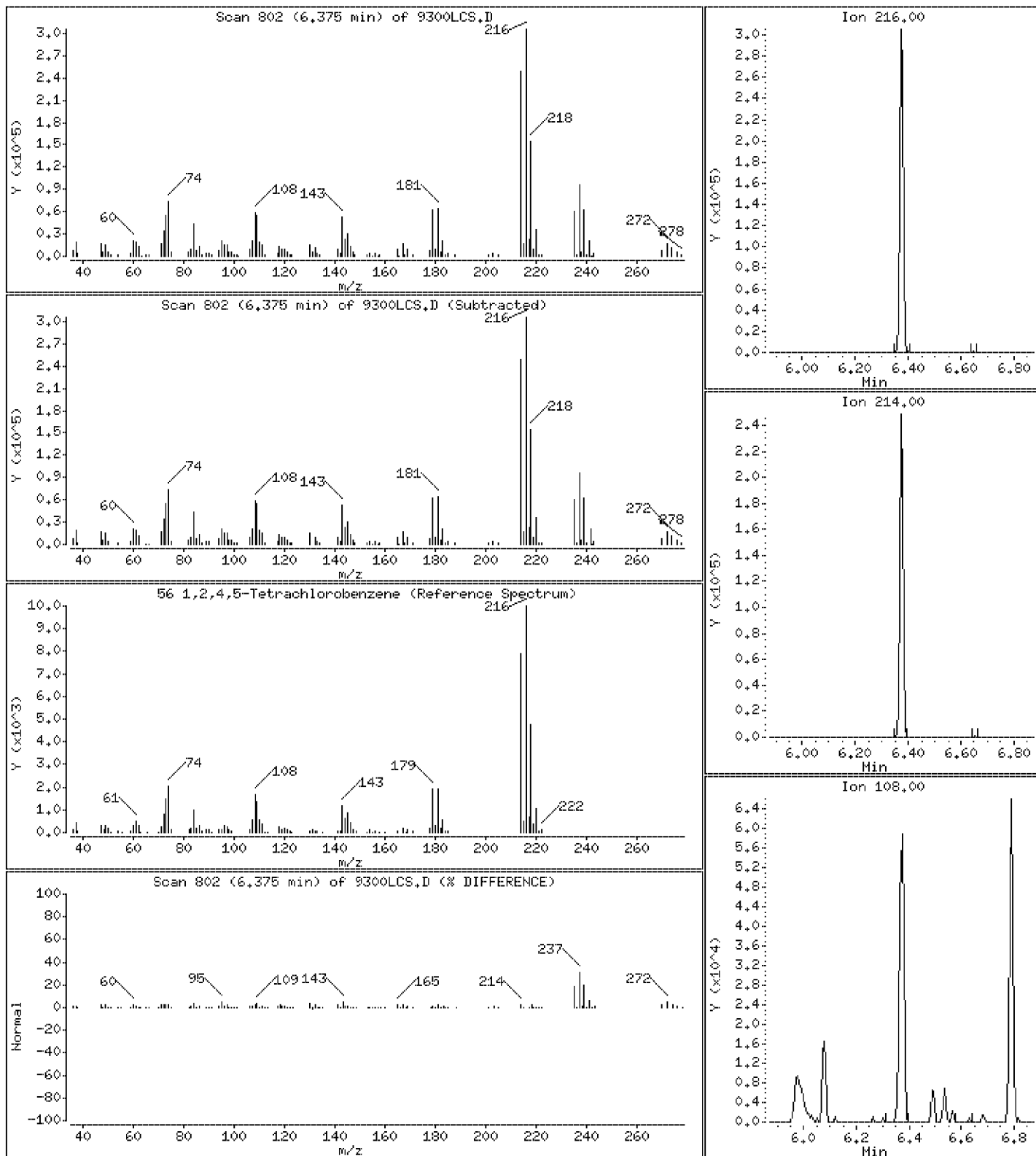
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

56 1,2,4,5-Tetrachlorobenzene

Concentration: 1430 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

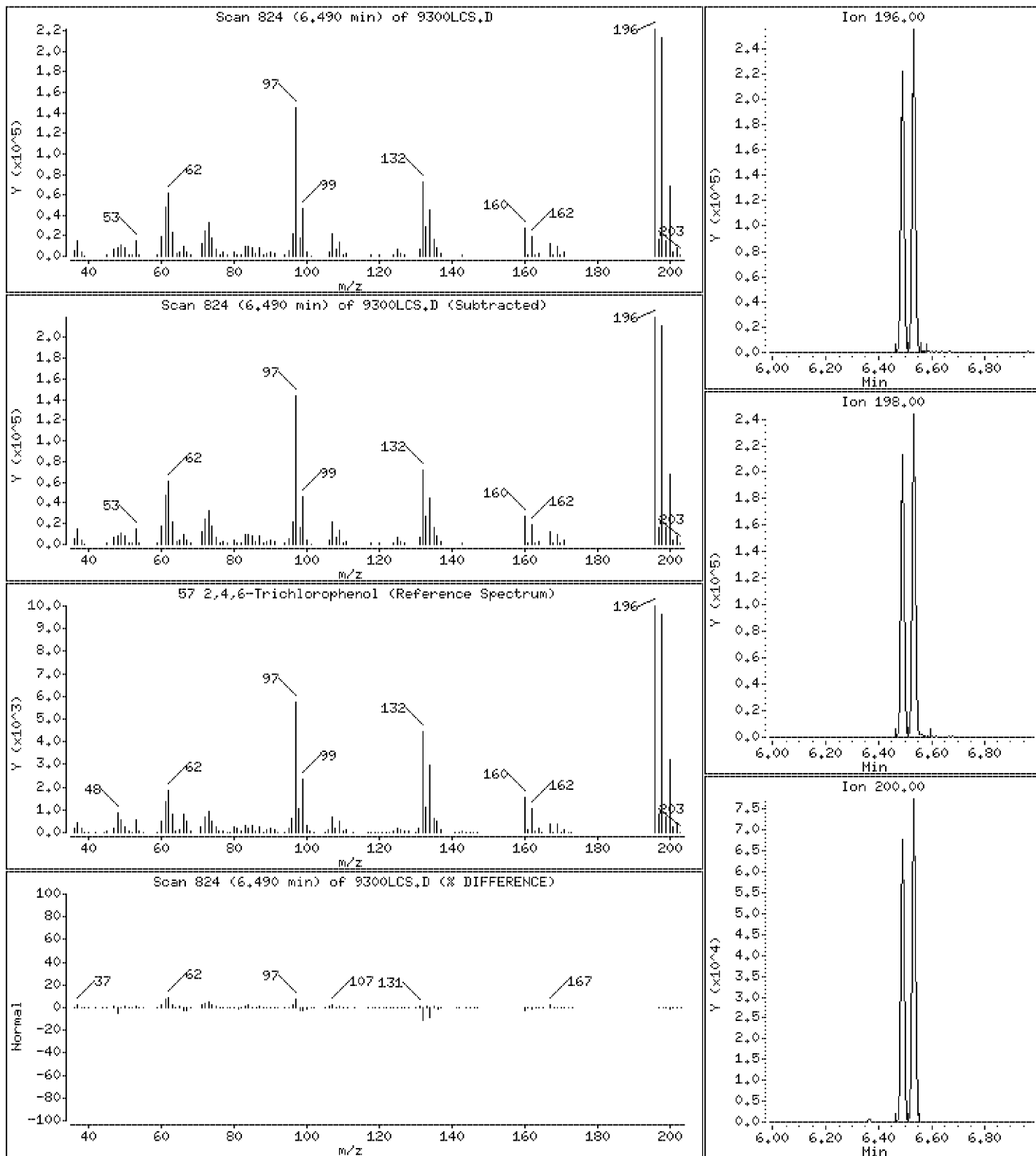
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

57 2,4,6-Trichlorophenol

Concentration: 1520 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

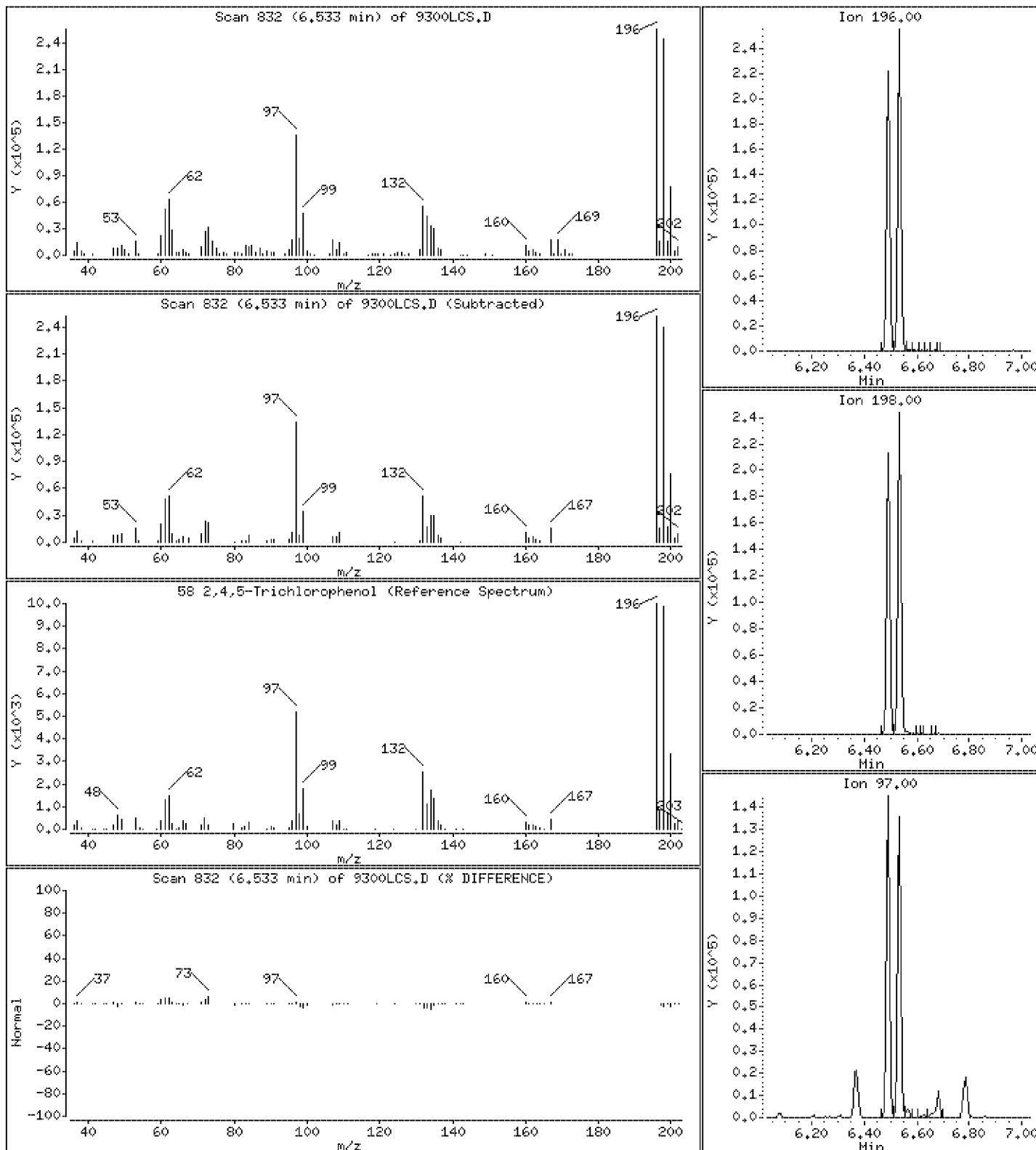
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

58 2,4,5-Trichlorophenol

Concentration: 1800 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

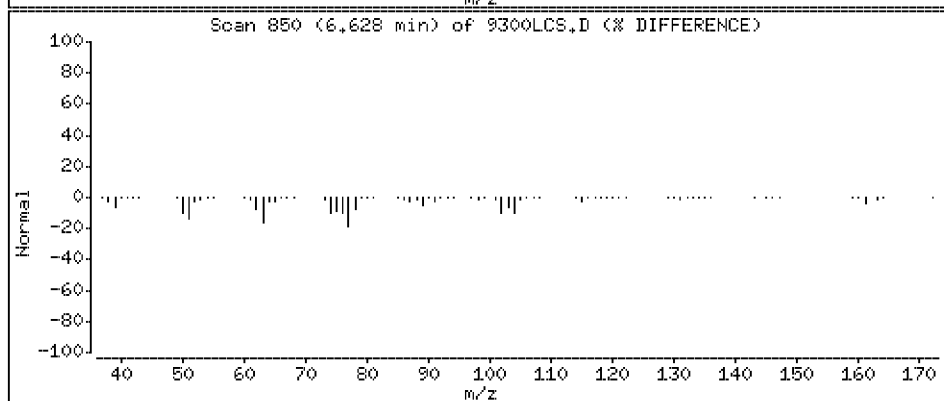
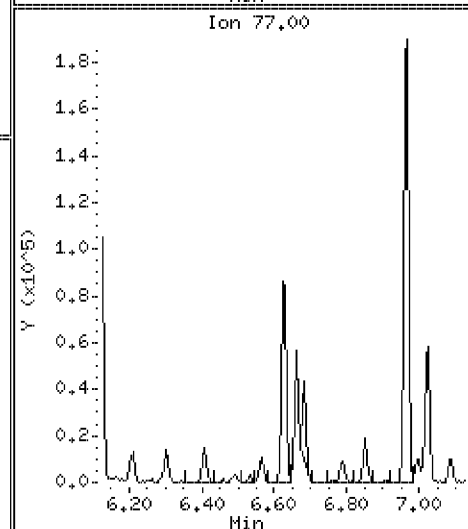
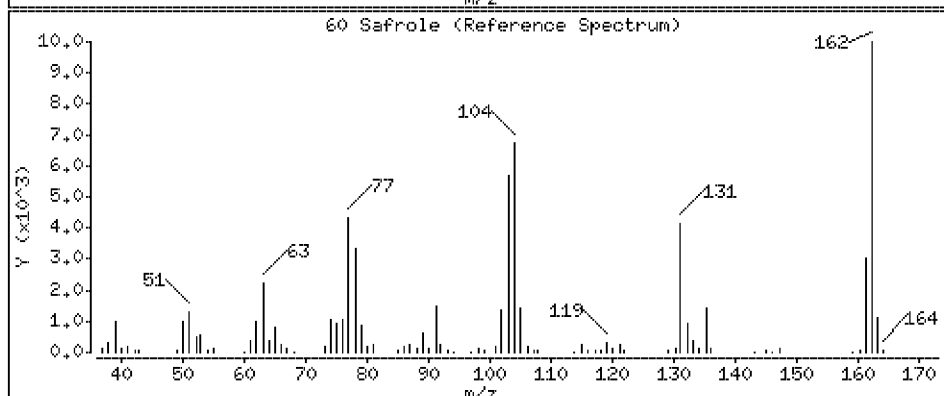
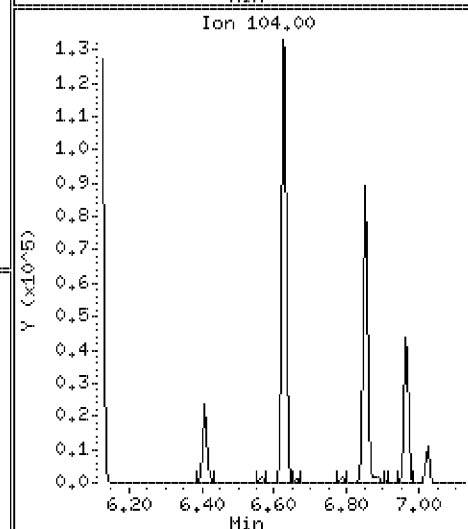
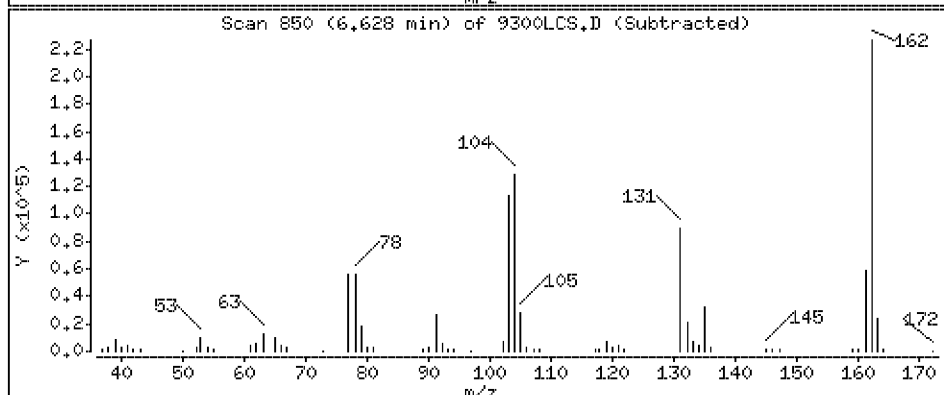
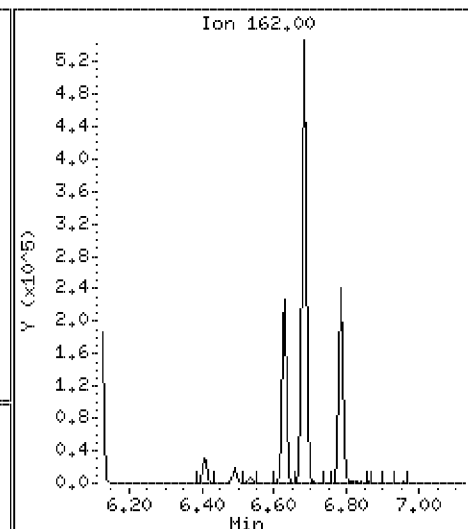
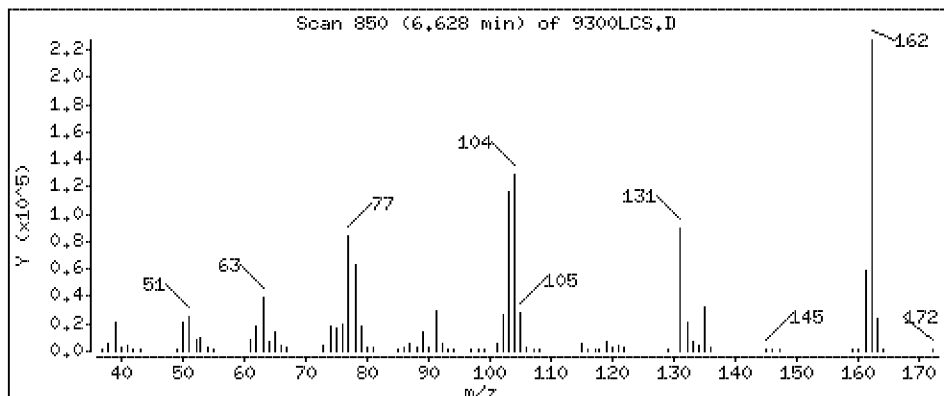
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

60 Safrole

Concentration: 1710 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

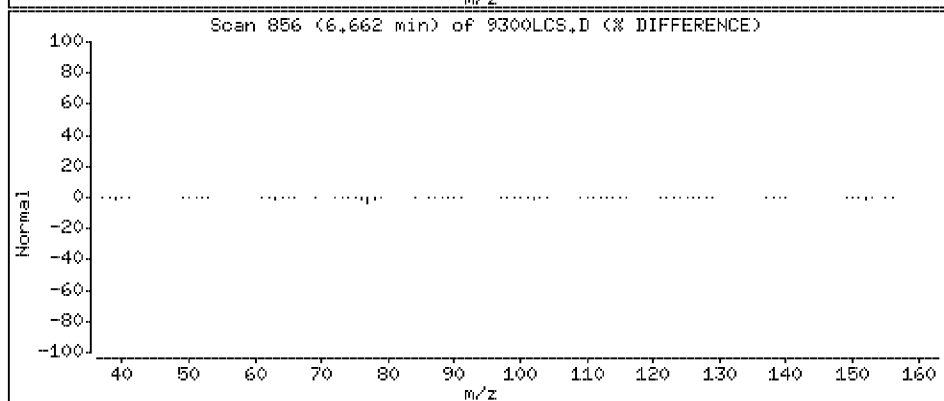
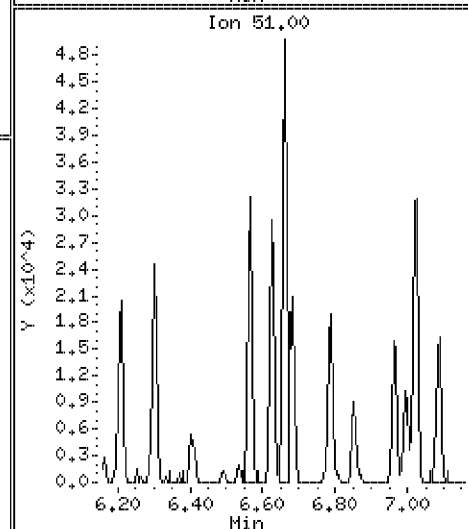
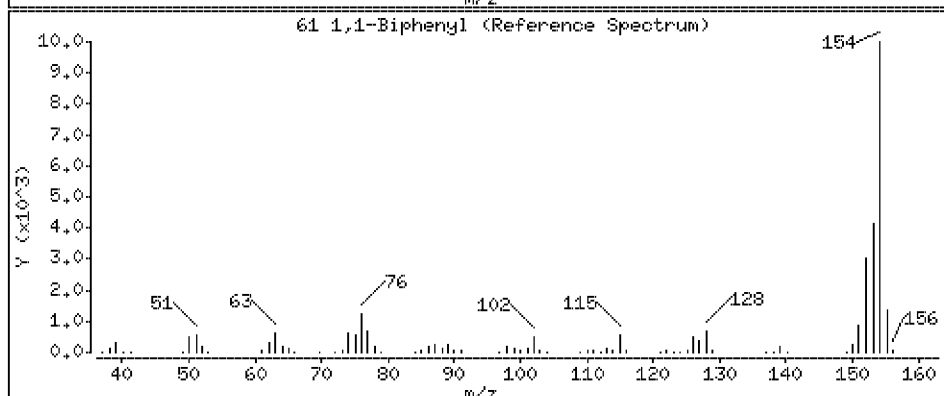
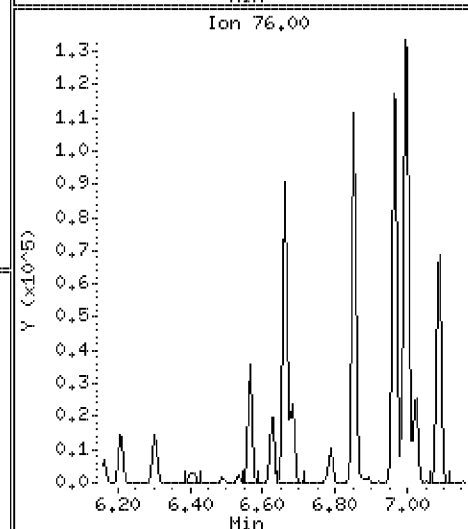
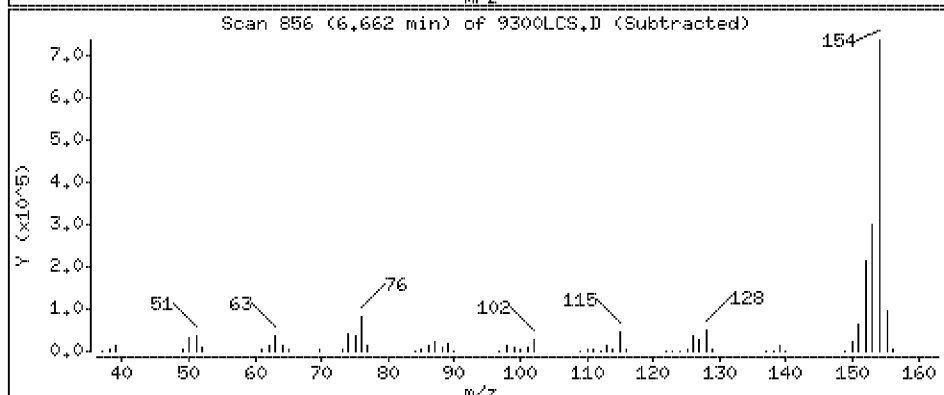
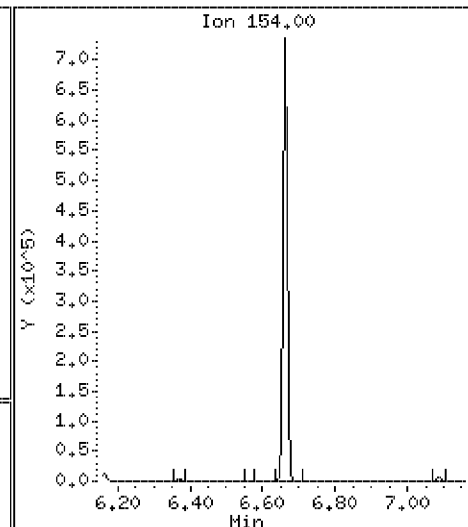
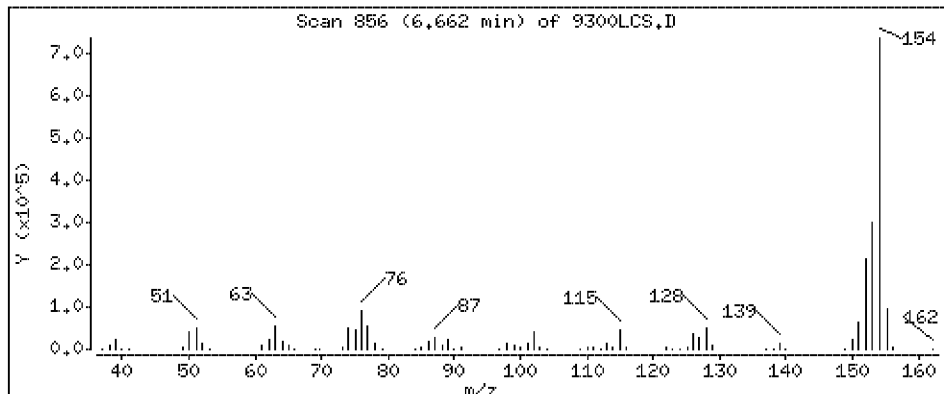
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

61 1,1-Biphenyl

Concentration: 1450 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

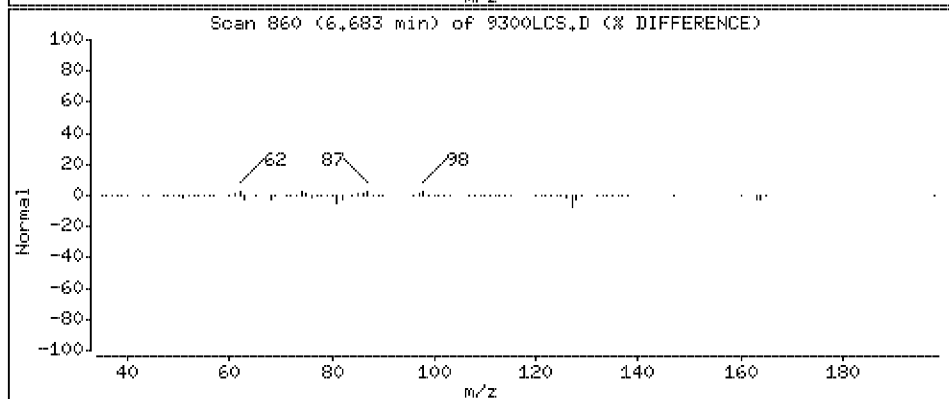
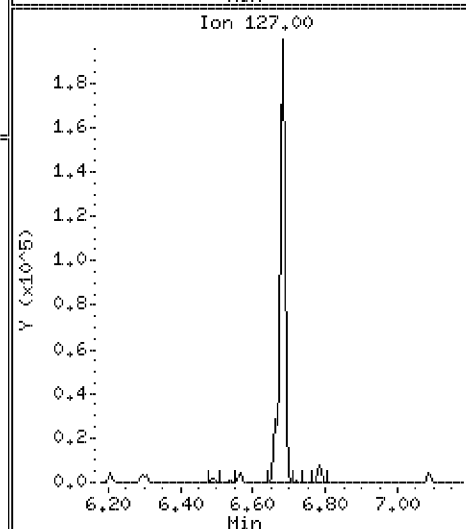
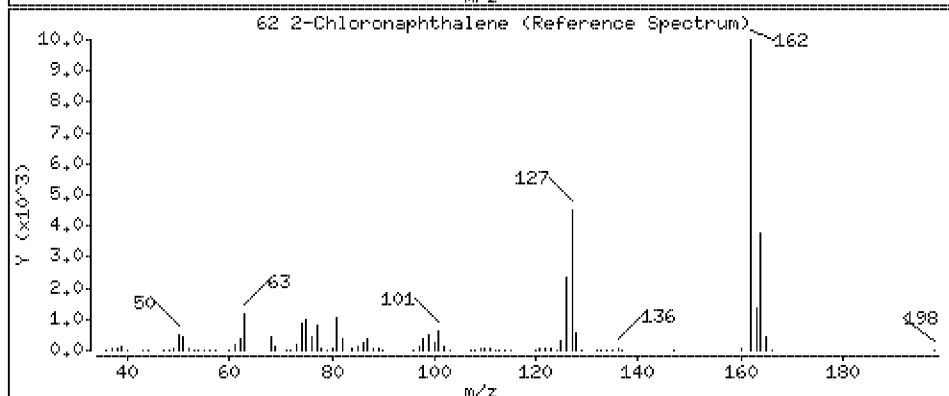
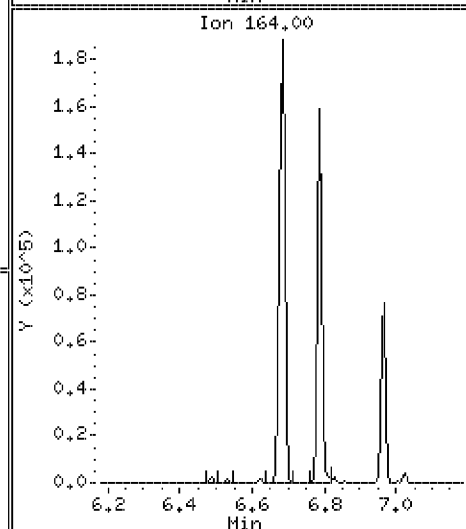
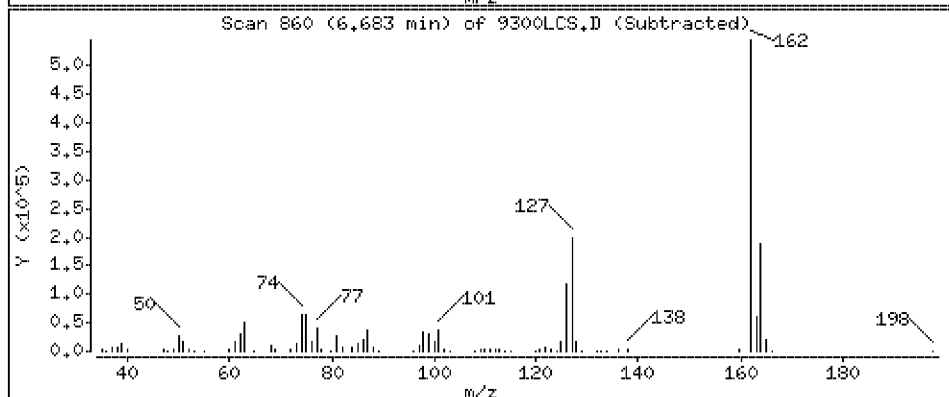
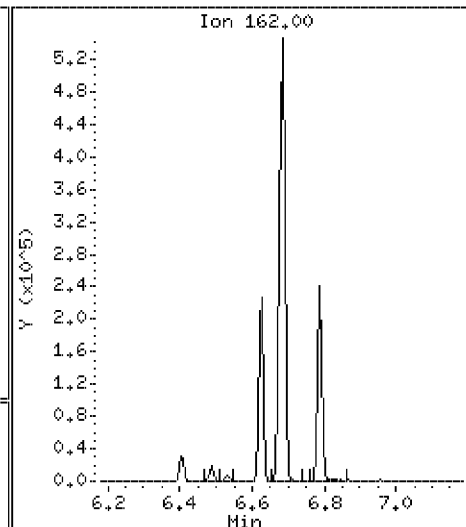
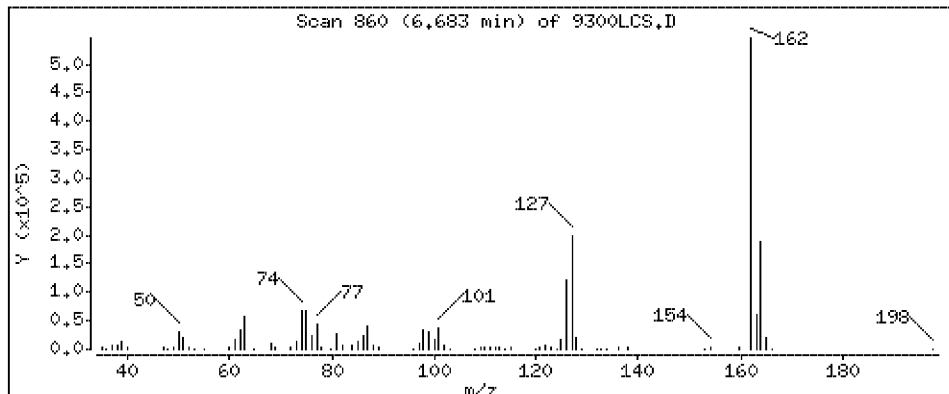
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

62 2-Chloronaphthalene

Concentration: 1550 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

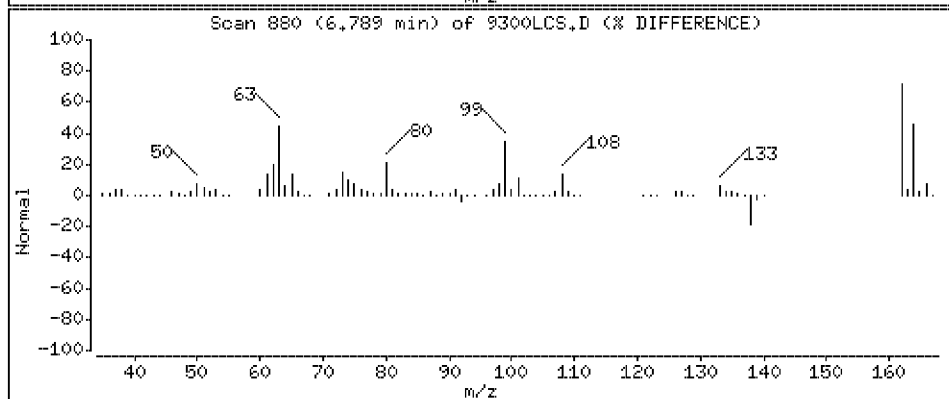
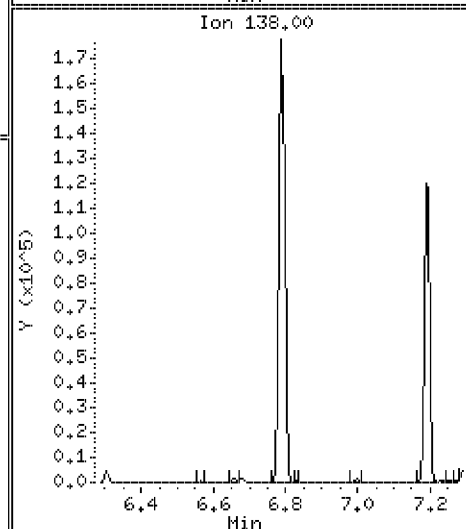
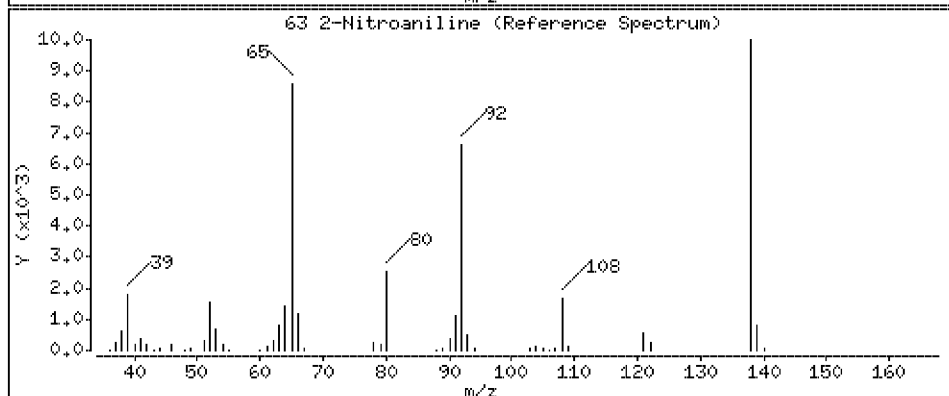
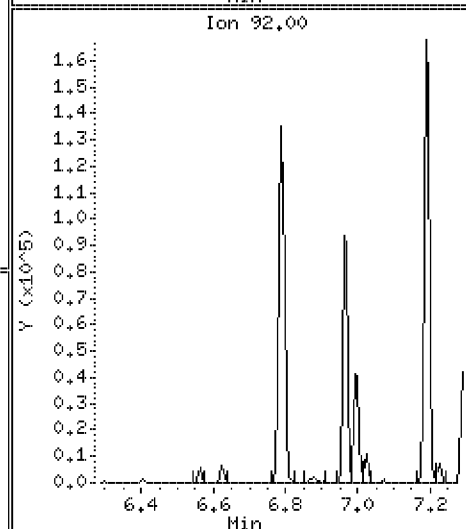
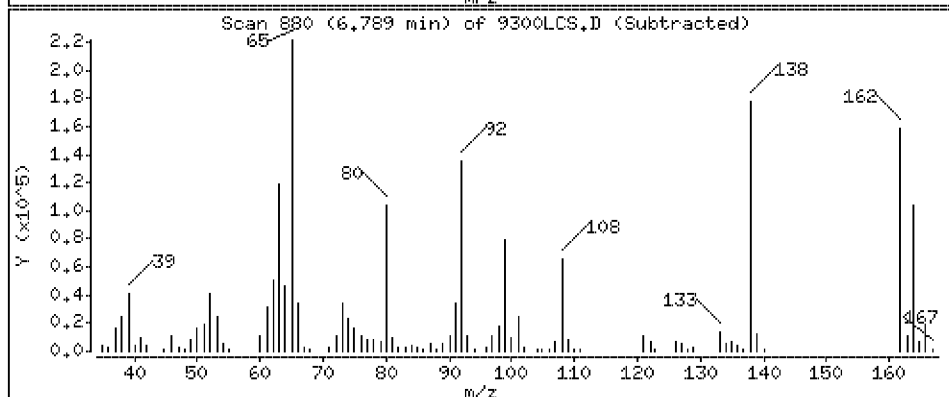
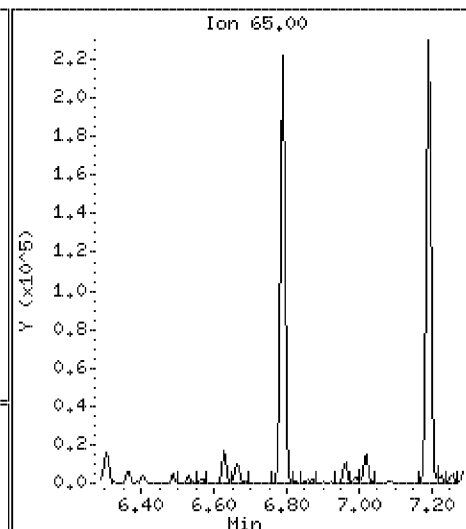
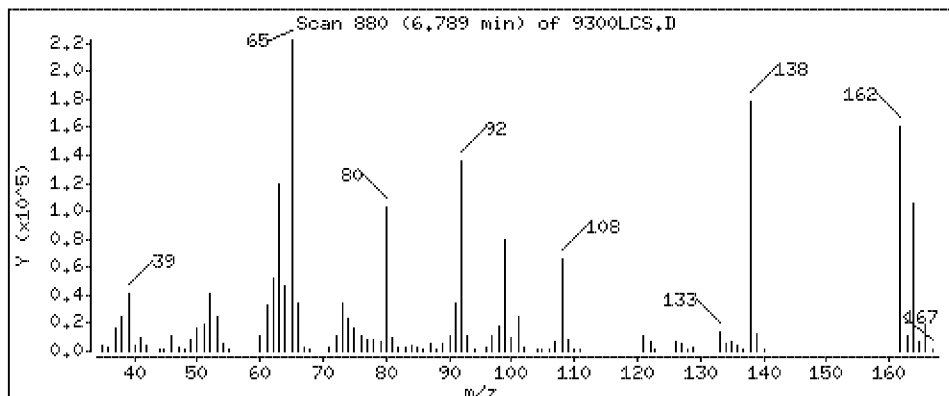
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

63 2-Nitroaniline

Concentration: 1900 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

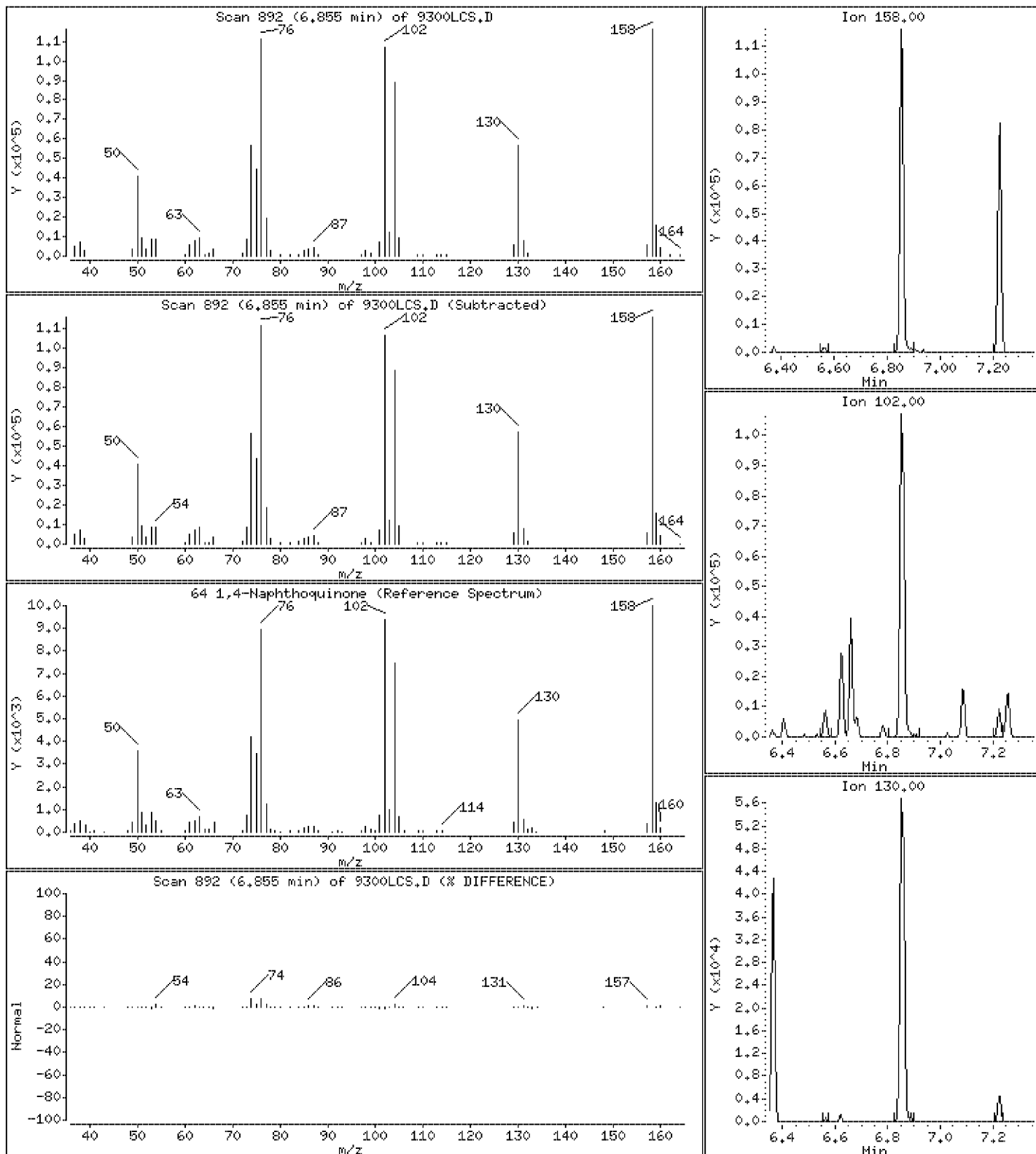
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

64 1,4-Naphthoquinone

Concentration: 991 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

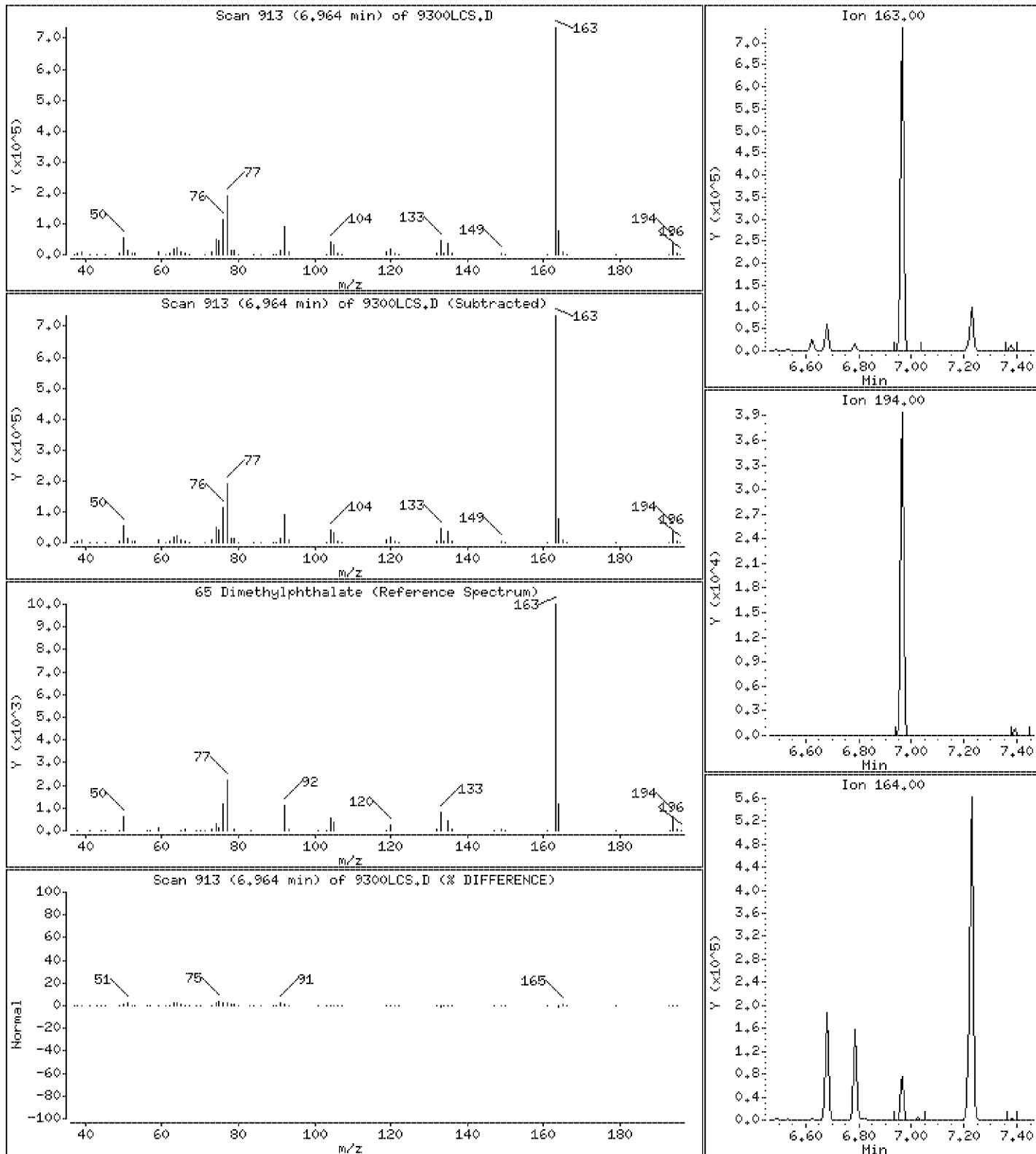
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

65 Dimethylphthalate

Concentration: 1780 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

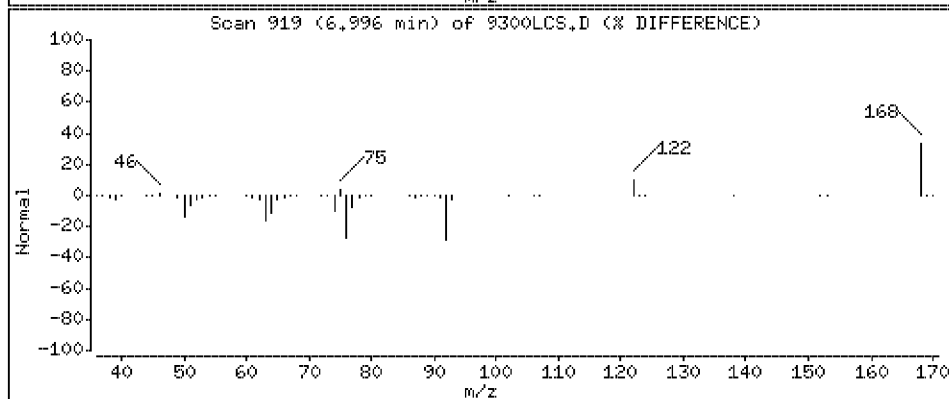
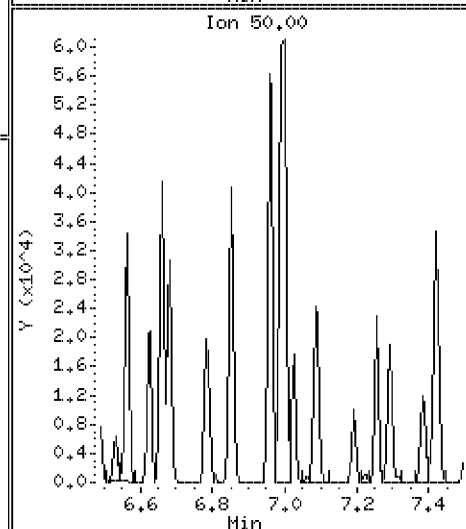
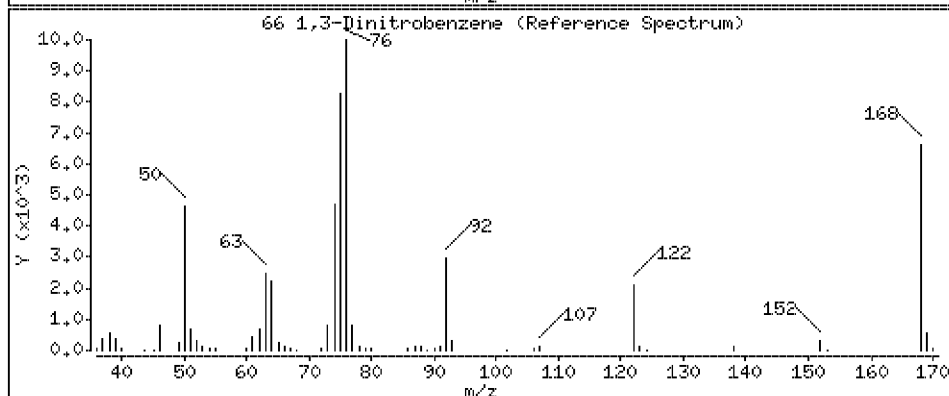
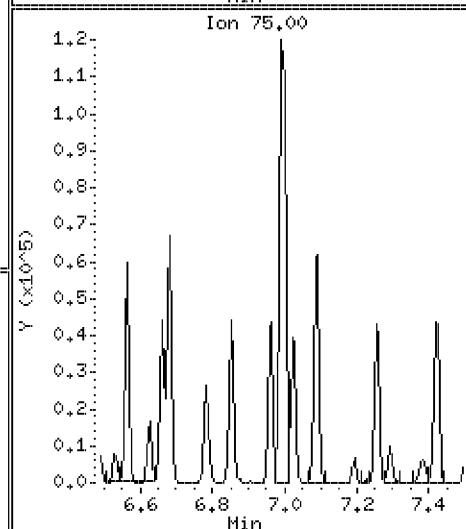
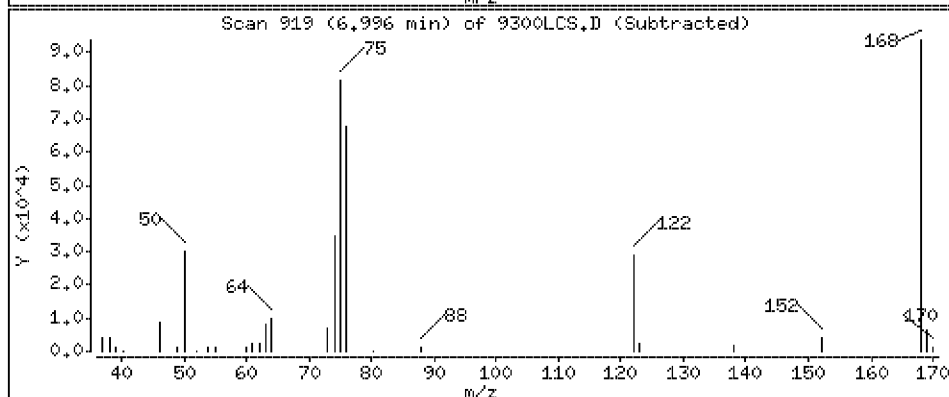
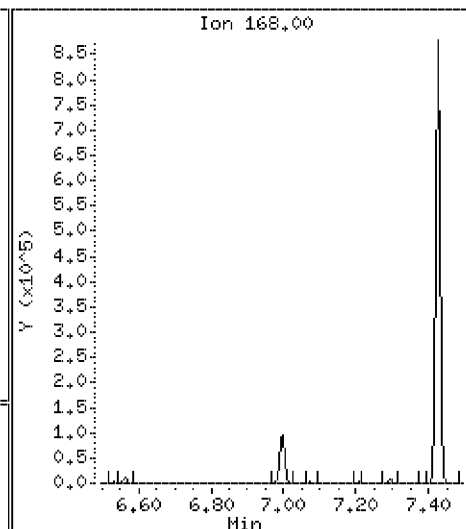
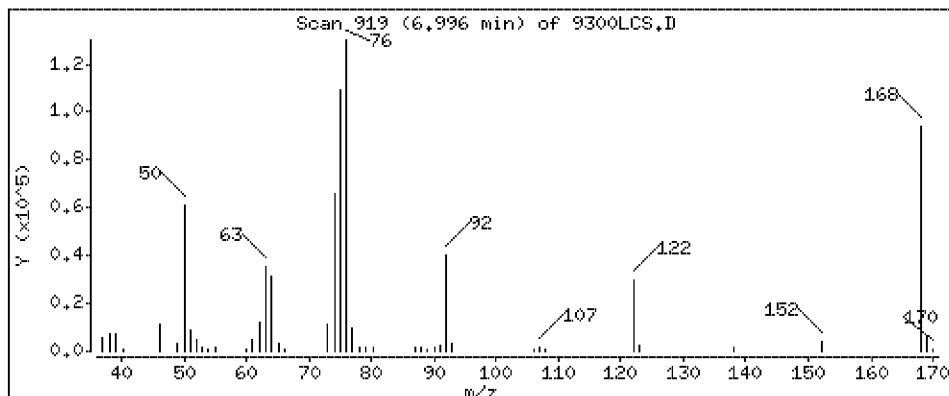
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

66 1,3-Dinitrobenzene

Concentration: 1760 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

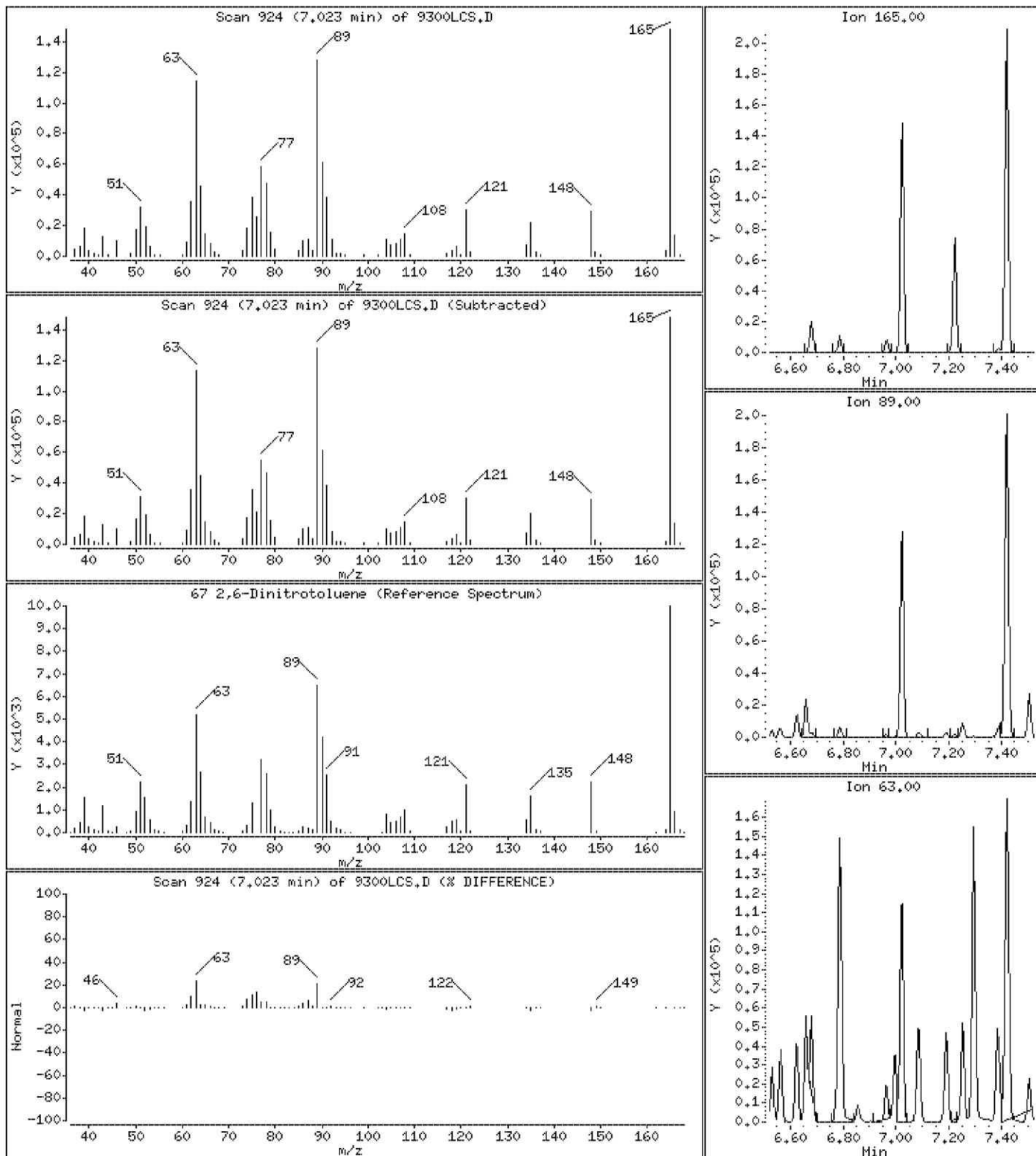
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

67 2,6-Dinitrotoluene

Concentration: 1670 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

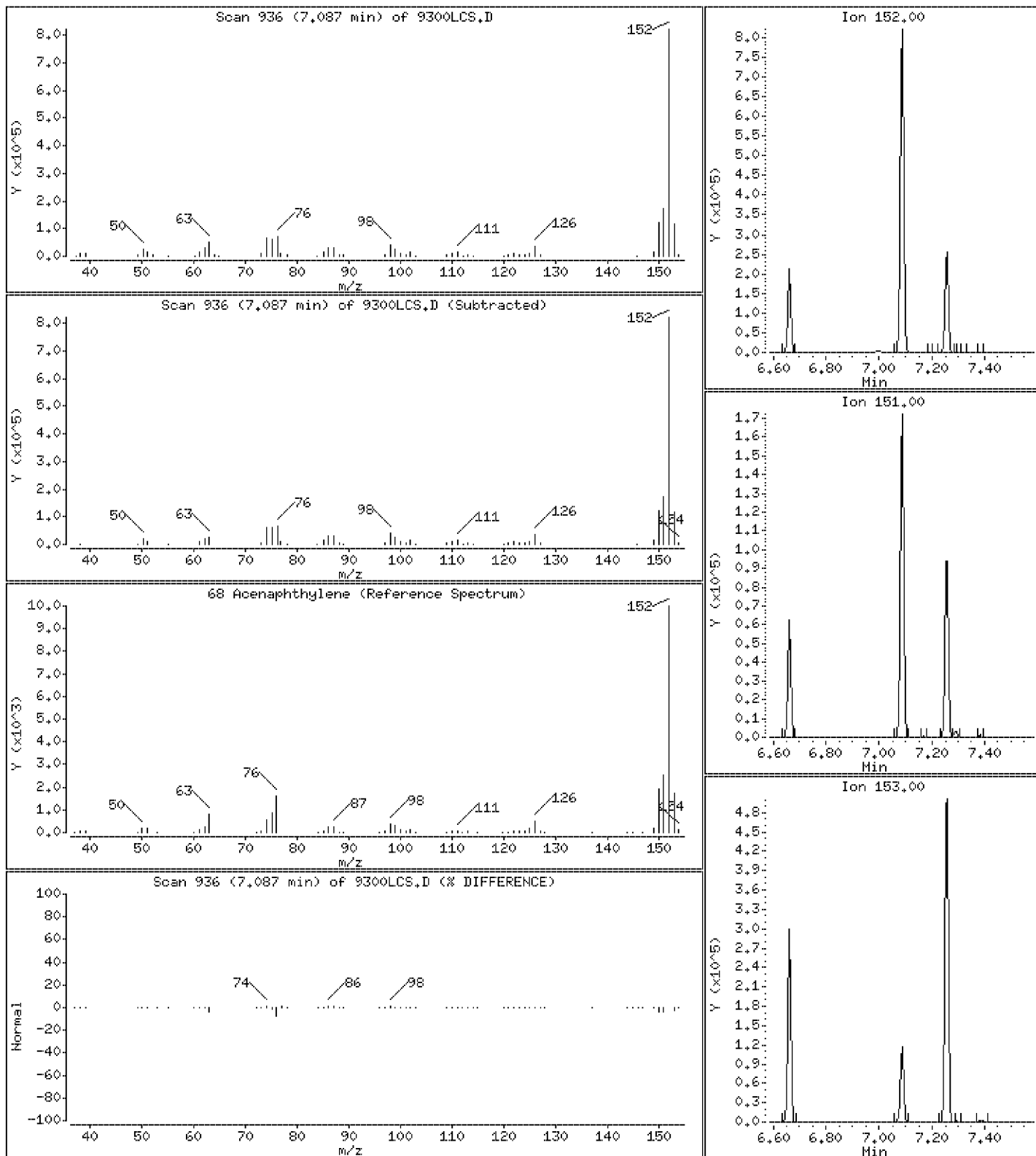
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

68 Acenaphthylene

Concentration: 1690 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

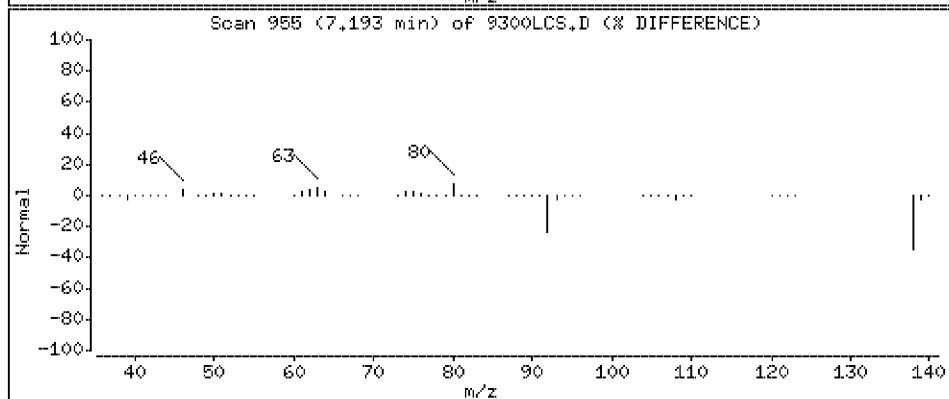
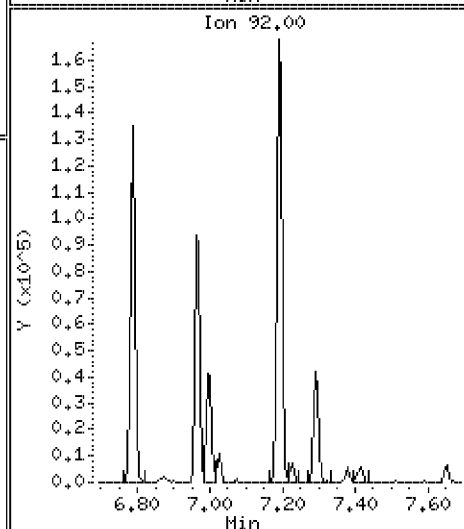
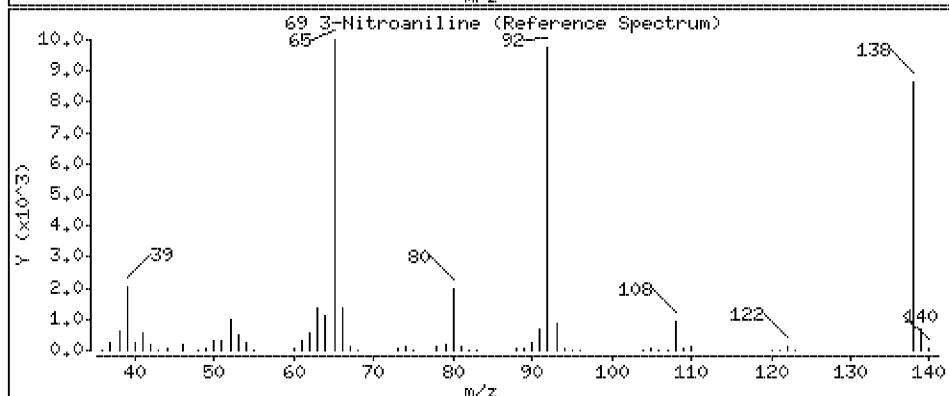
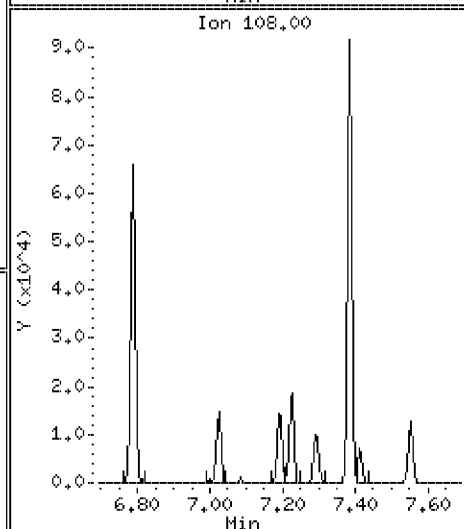
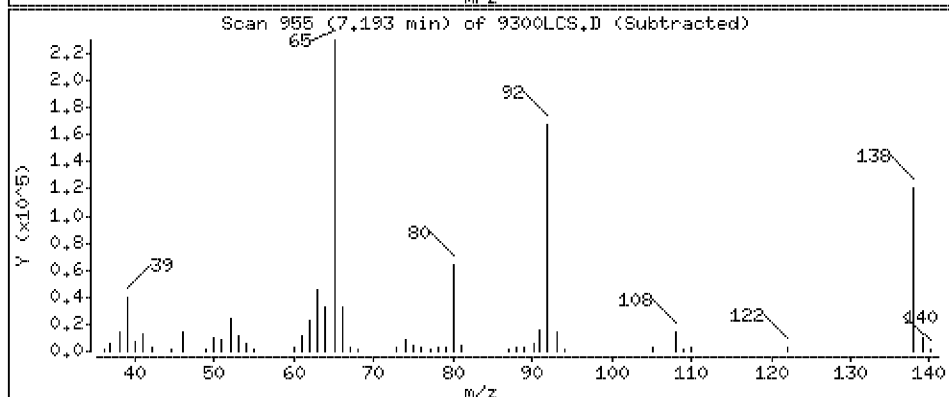
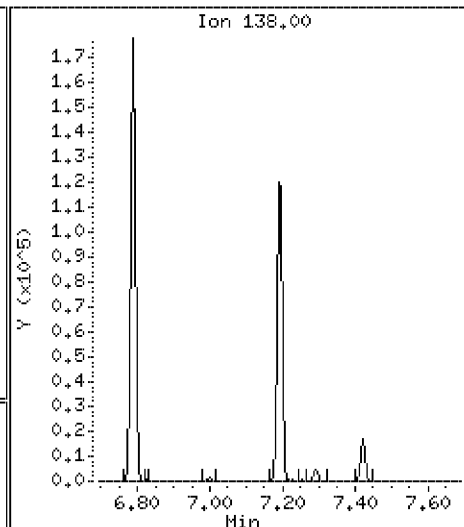
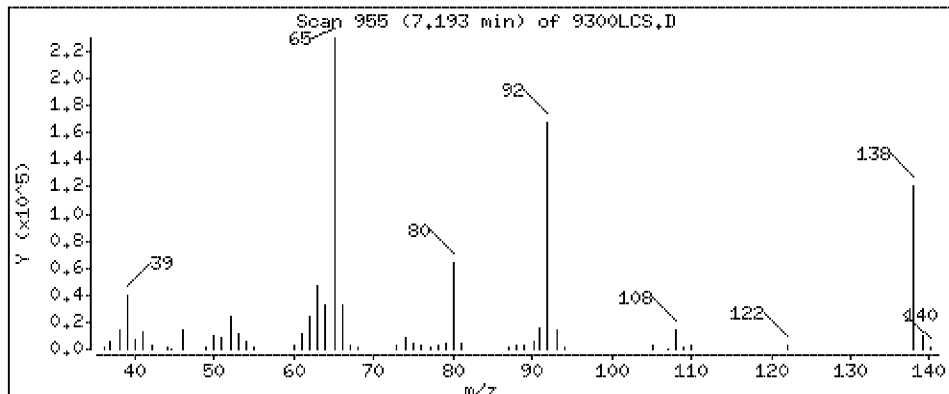
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

69 3-Nitroaniline

Concentration: 1720 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

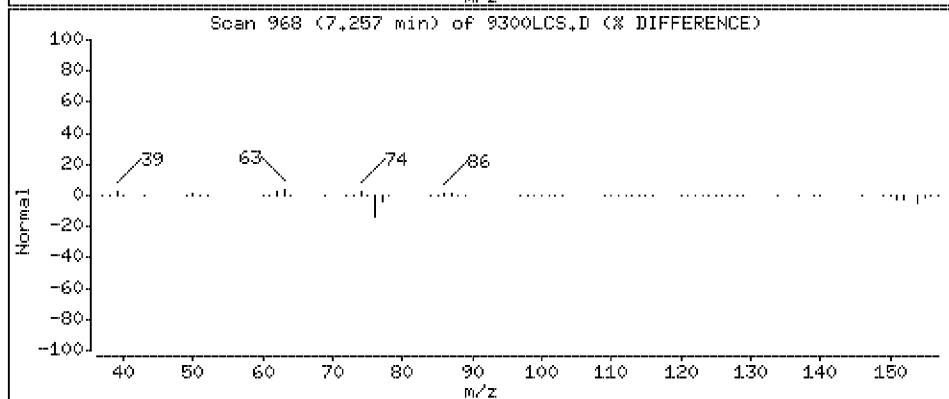
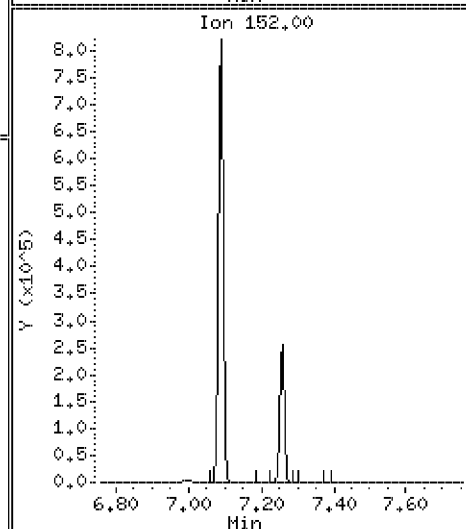
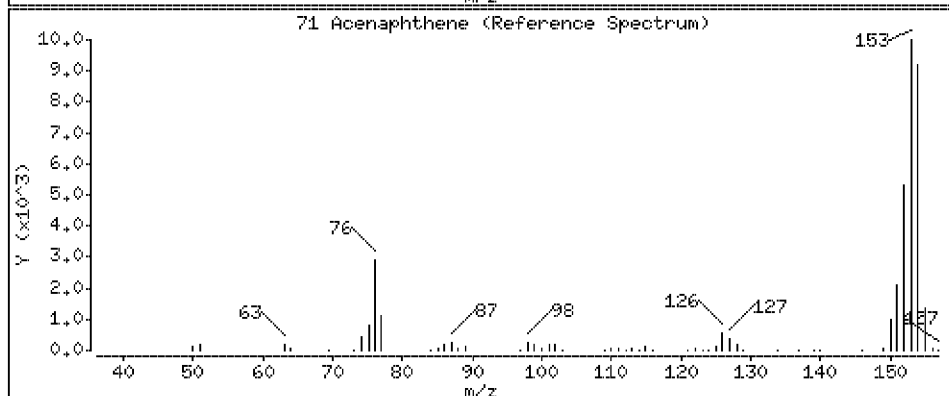
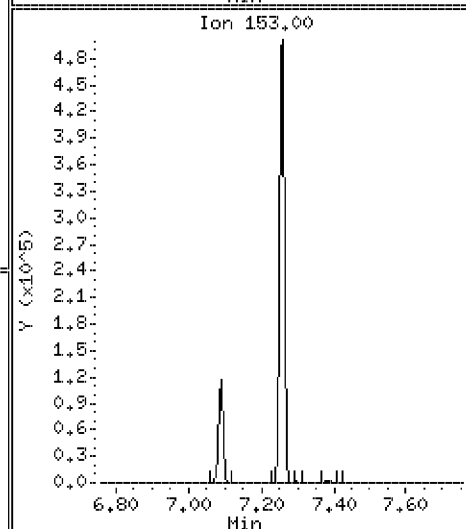
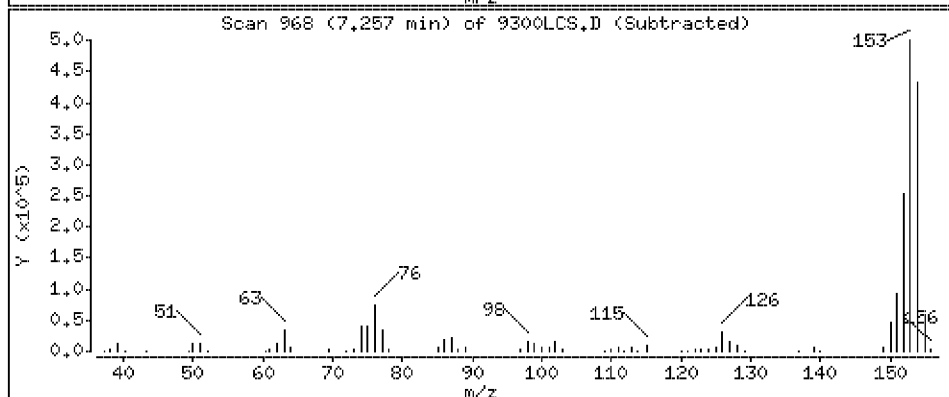
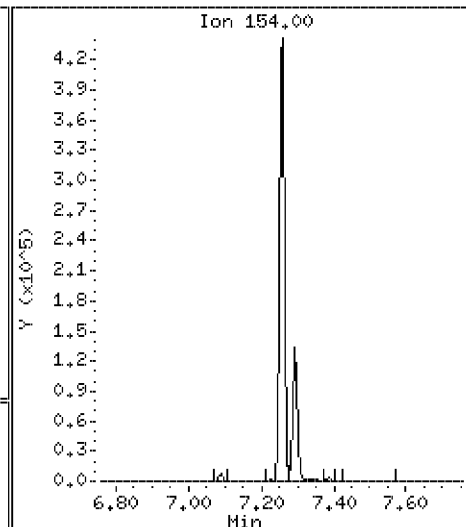
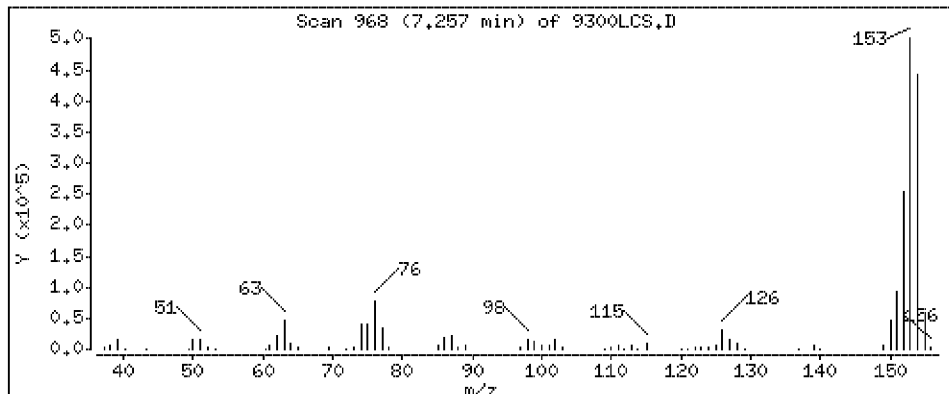
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

71 Acenaphthene

Concentration: 1530 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

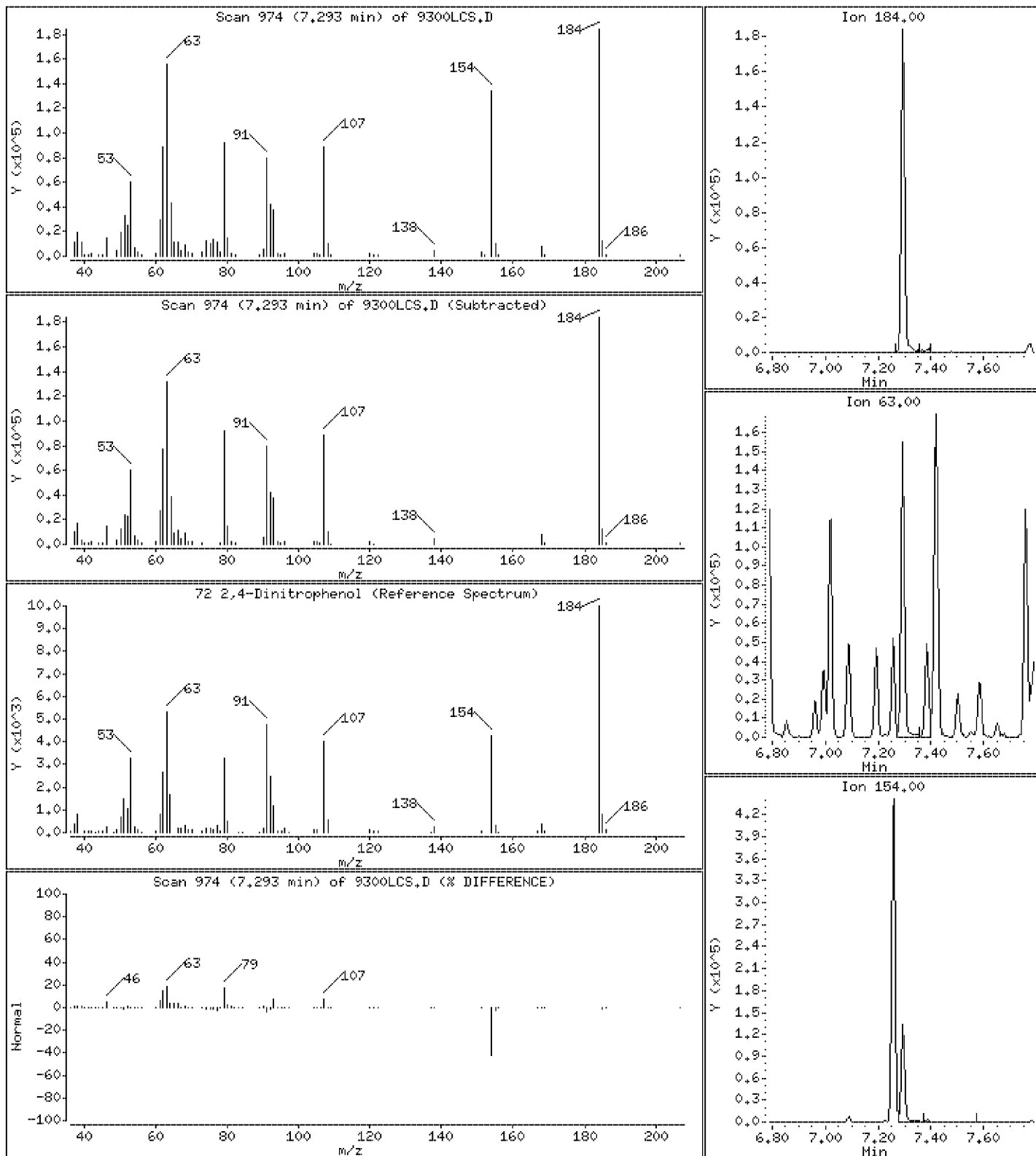
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

72 2,4-Dinitrophenol

Concentration: 3150 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

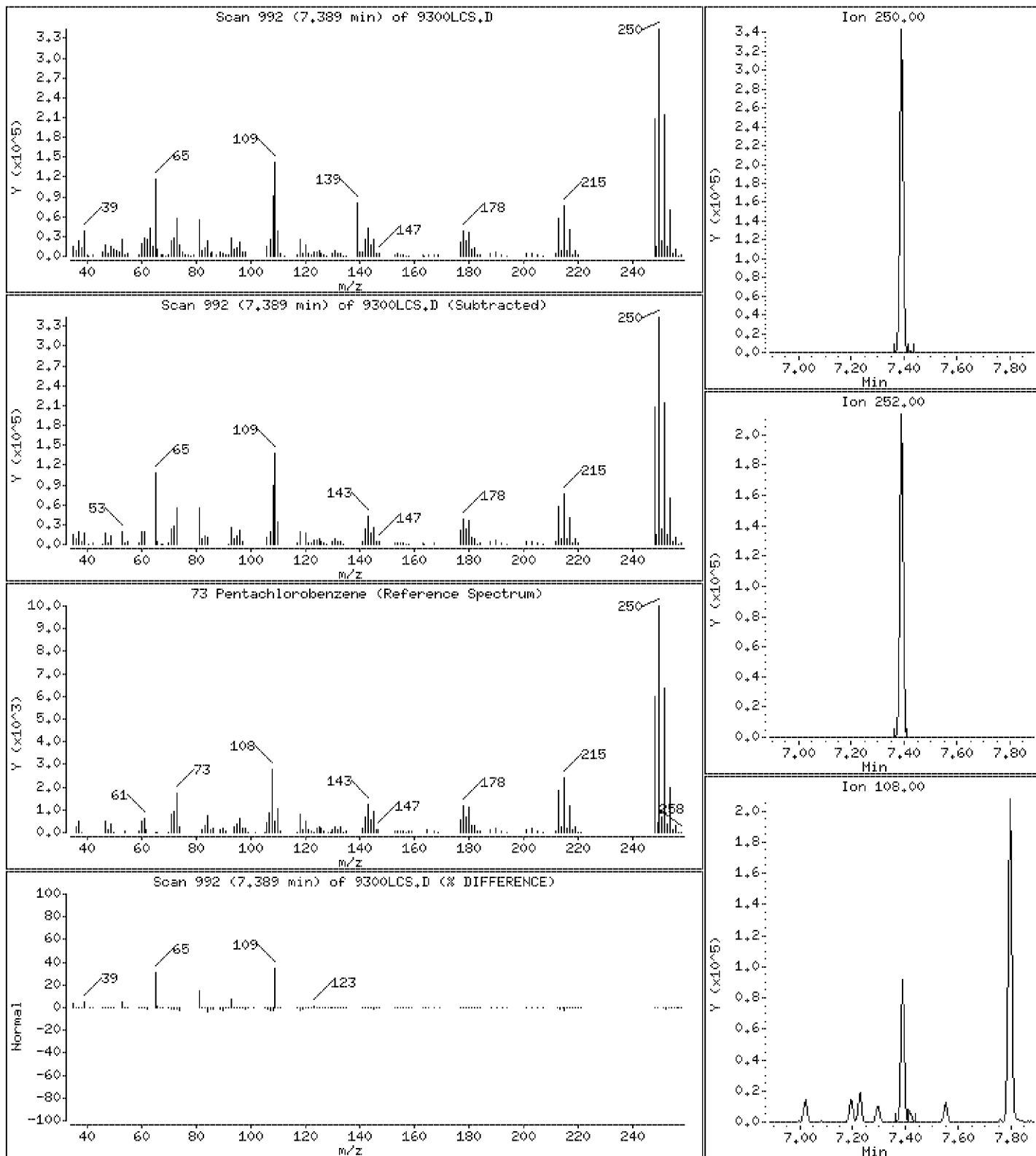
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

73 Pentachlorobenzene

Concentration: 1580 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

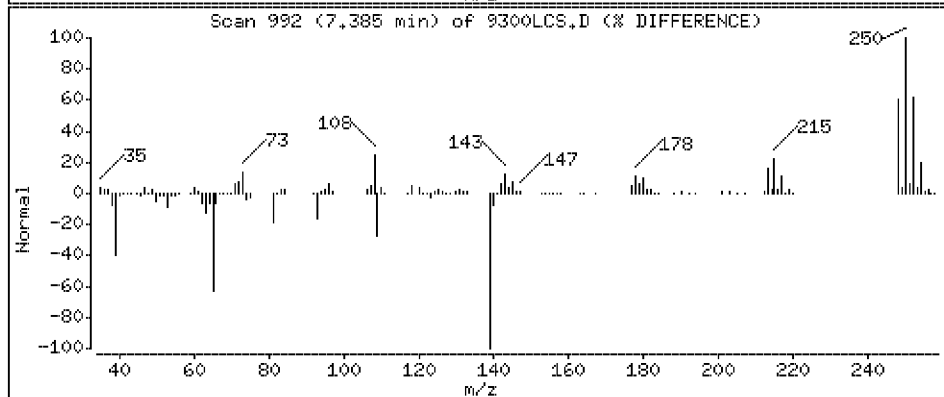
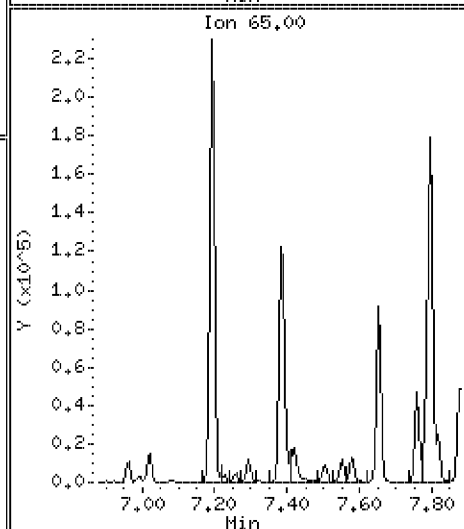
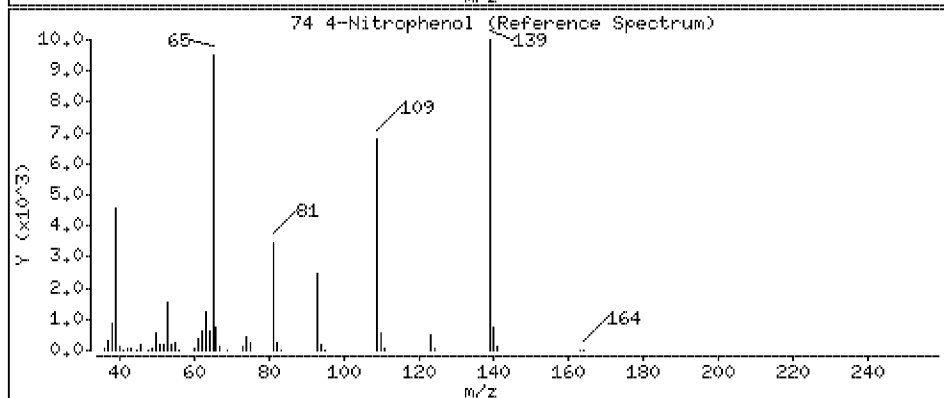
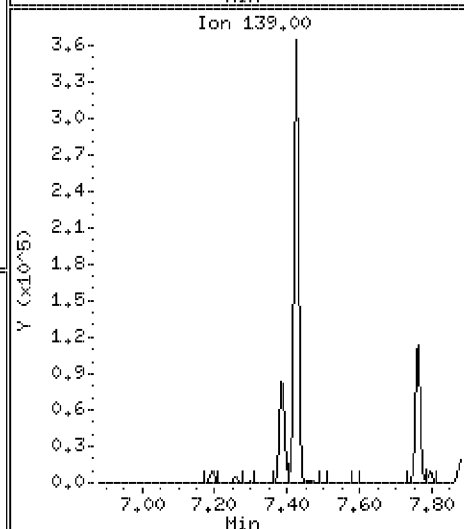
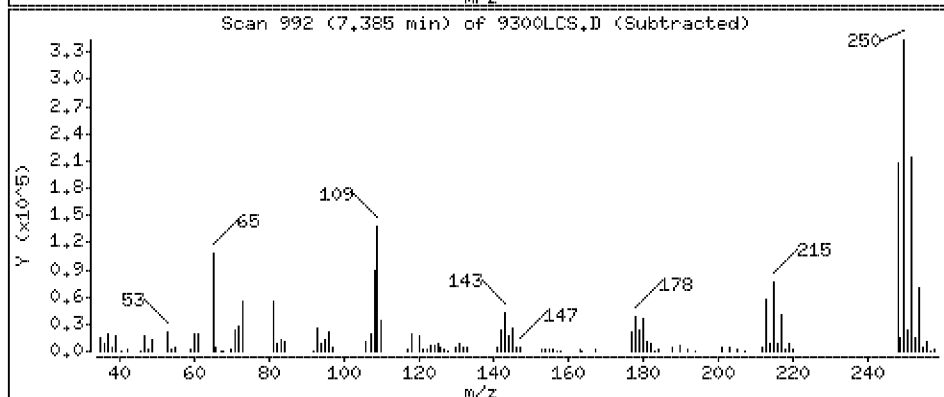
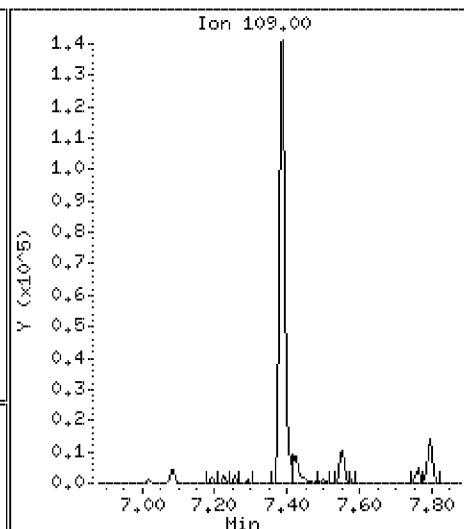
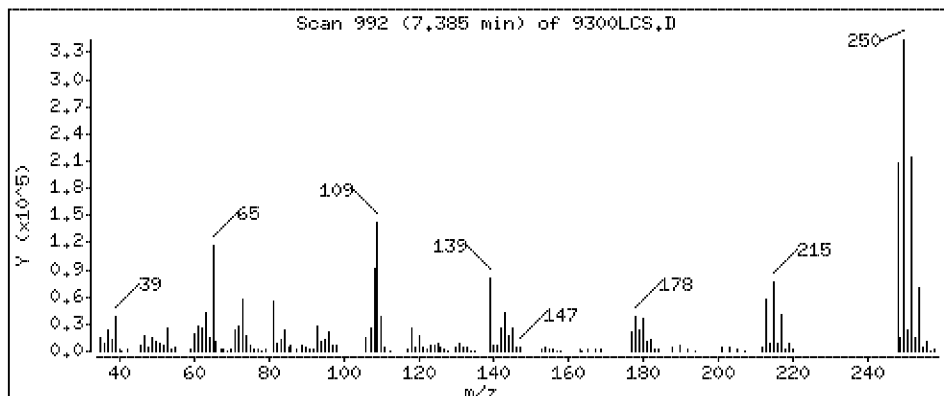
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

74 4-Nitrophenol

Concentration: 2000 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

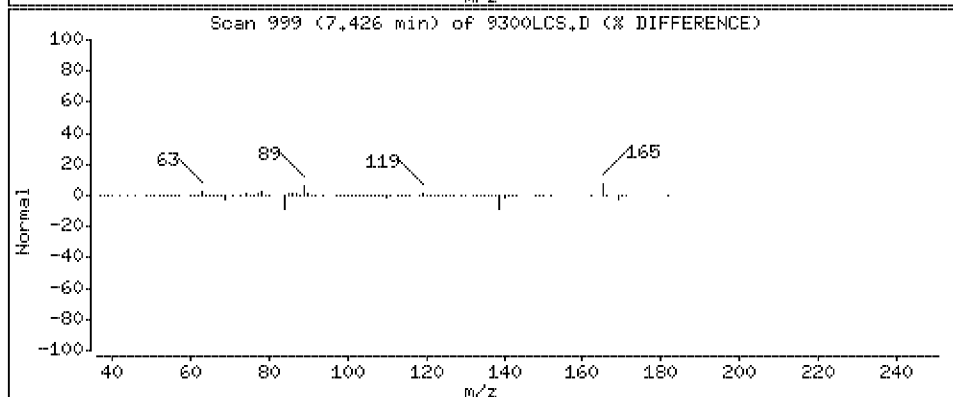
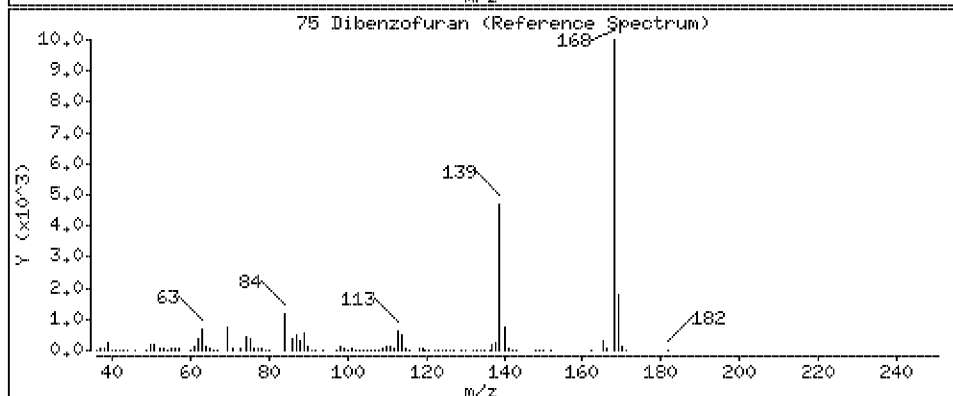
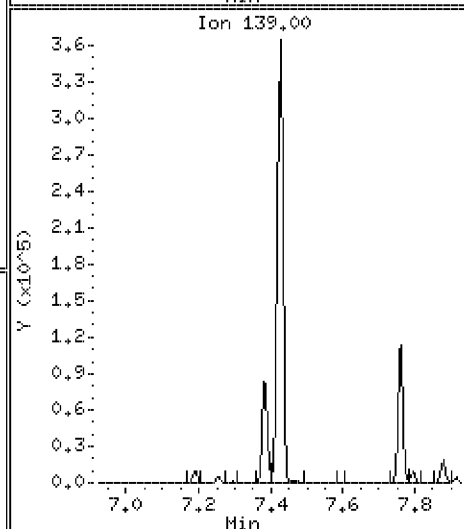
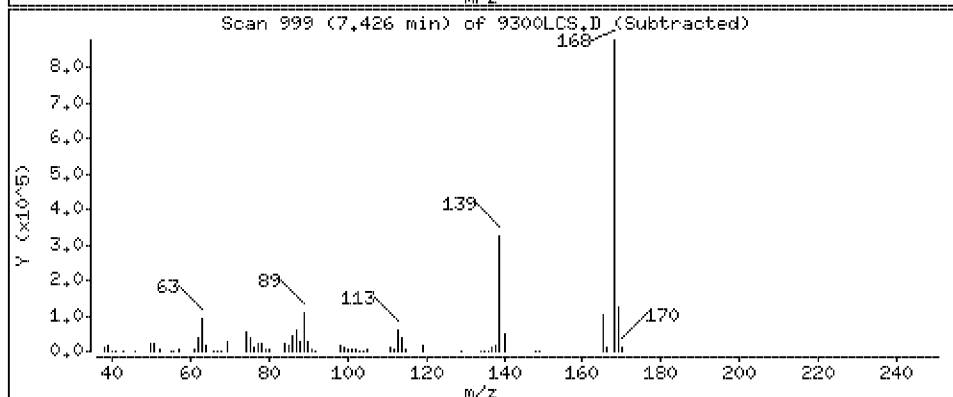
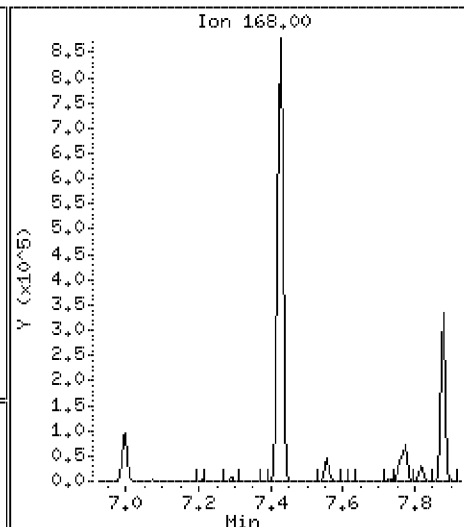
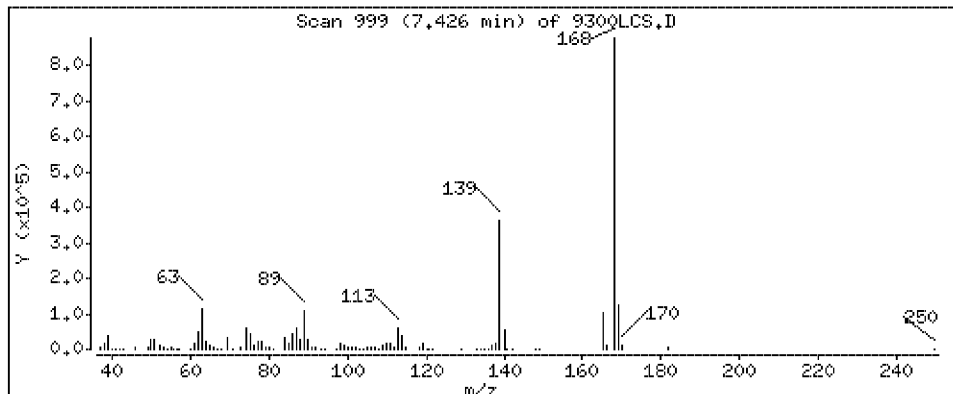
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

75 Dibenzofuran

Concentration: 1700 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

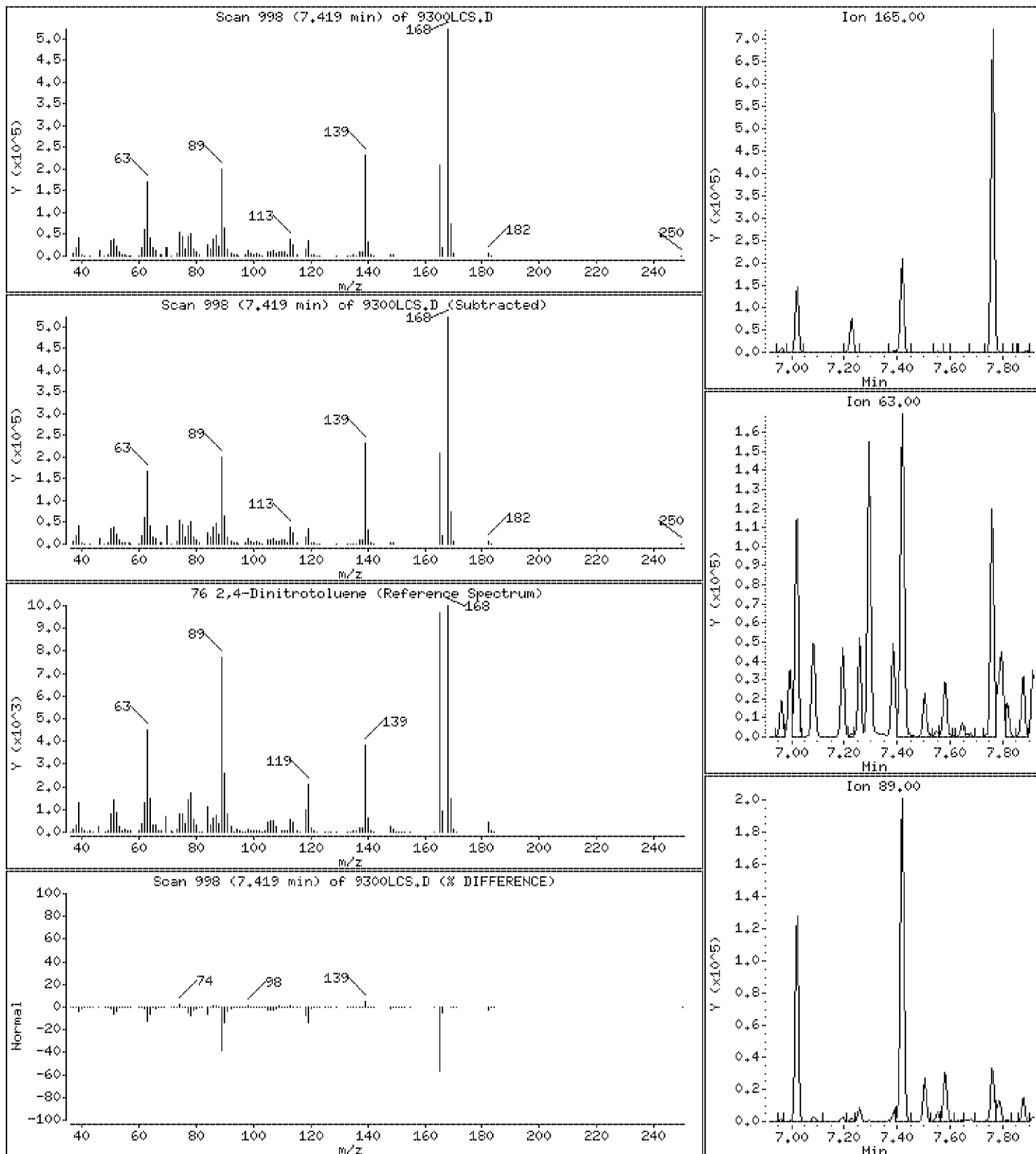
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

76 2,4-Dinitrotoluene

Concentration: 1740 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

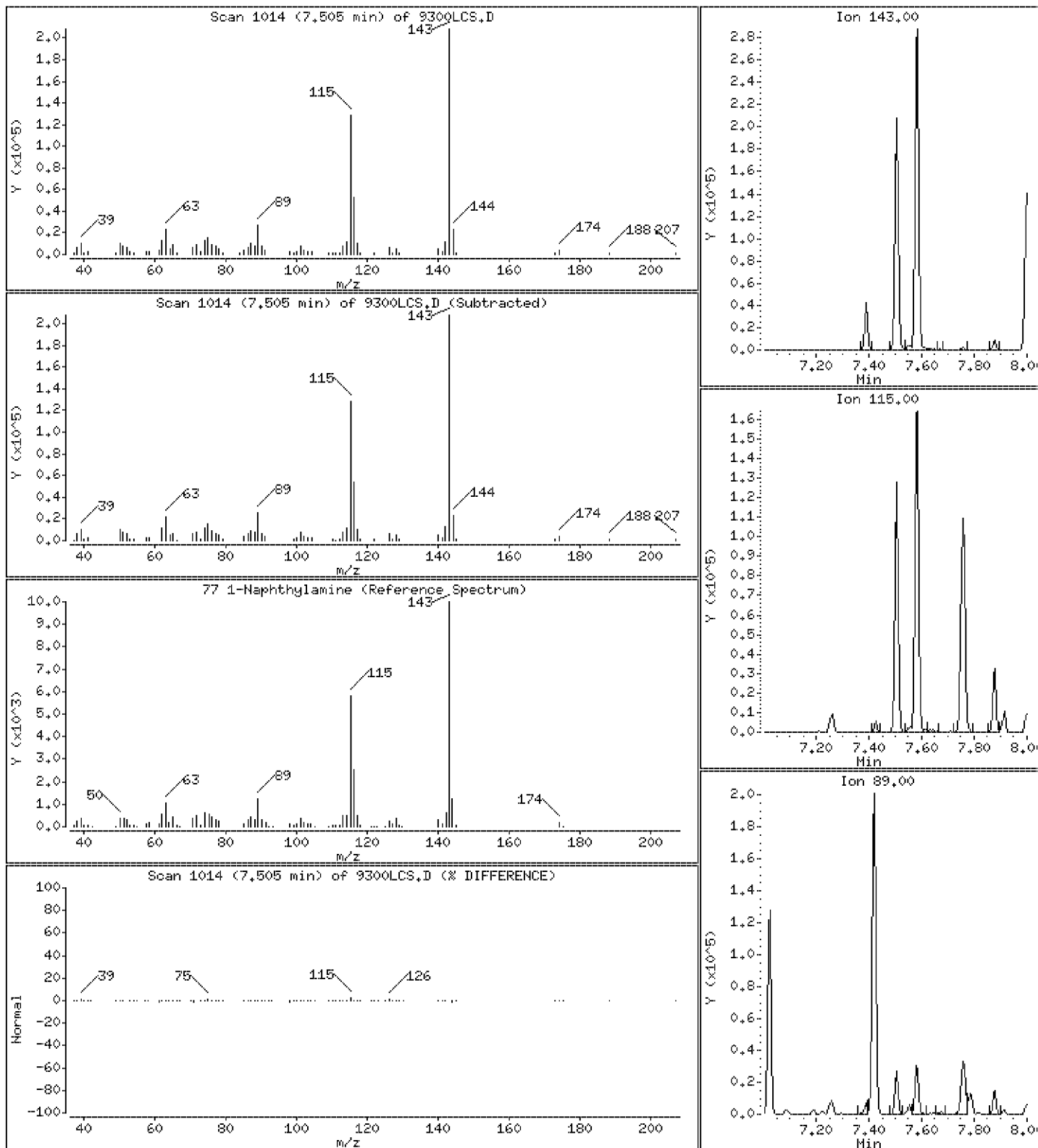
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

77 1-Naphthylamine

Concentration: 1050 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

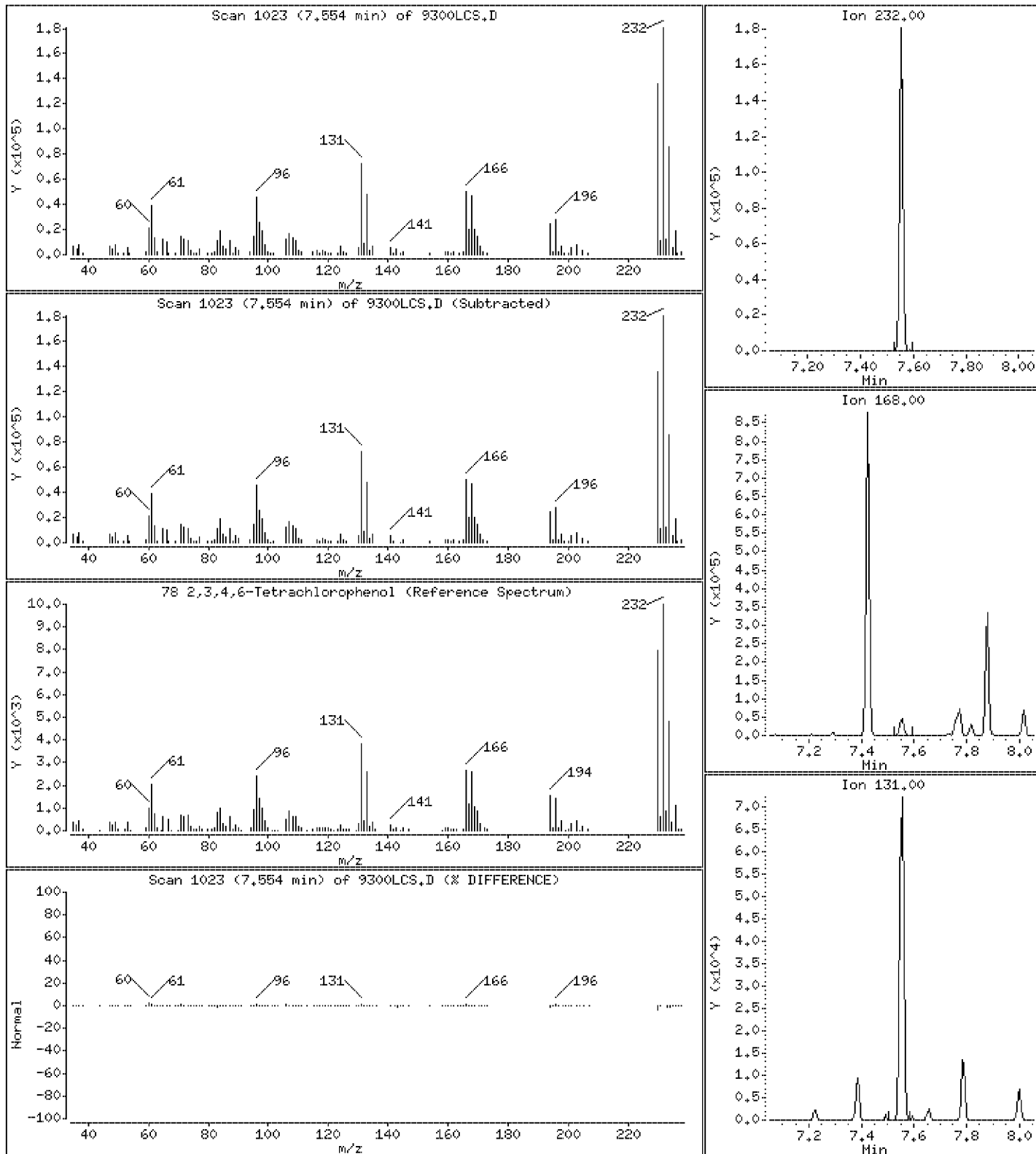
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

78 2,3,4,6-Tetrachlorophenol

Concentration: 1530 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

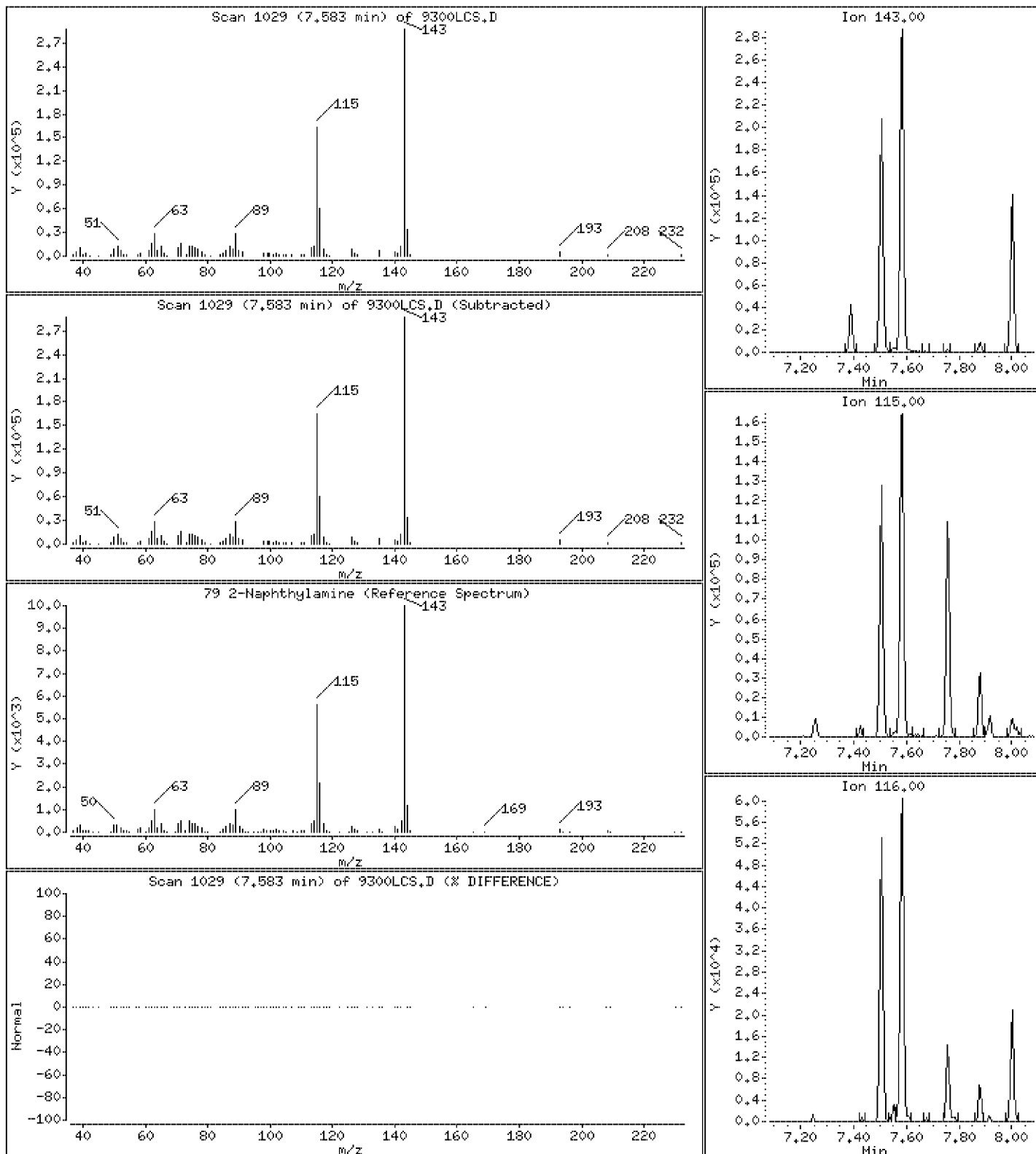
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

79 2-Naphthylamine

Concentration: 1200 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

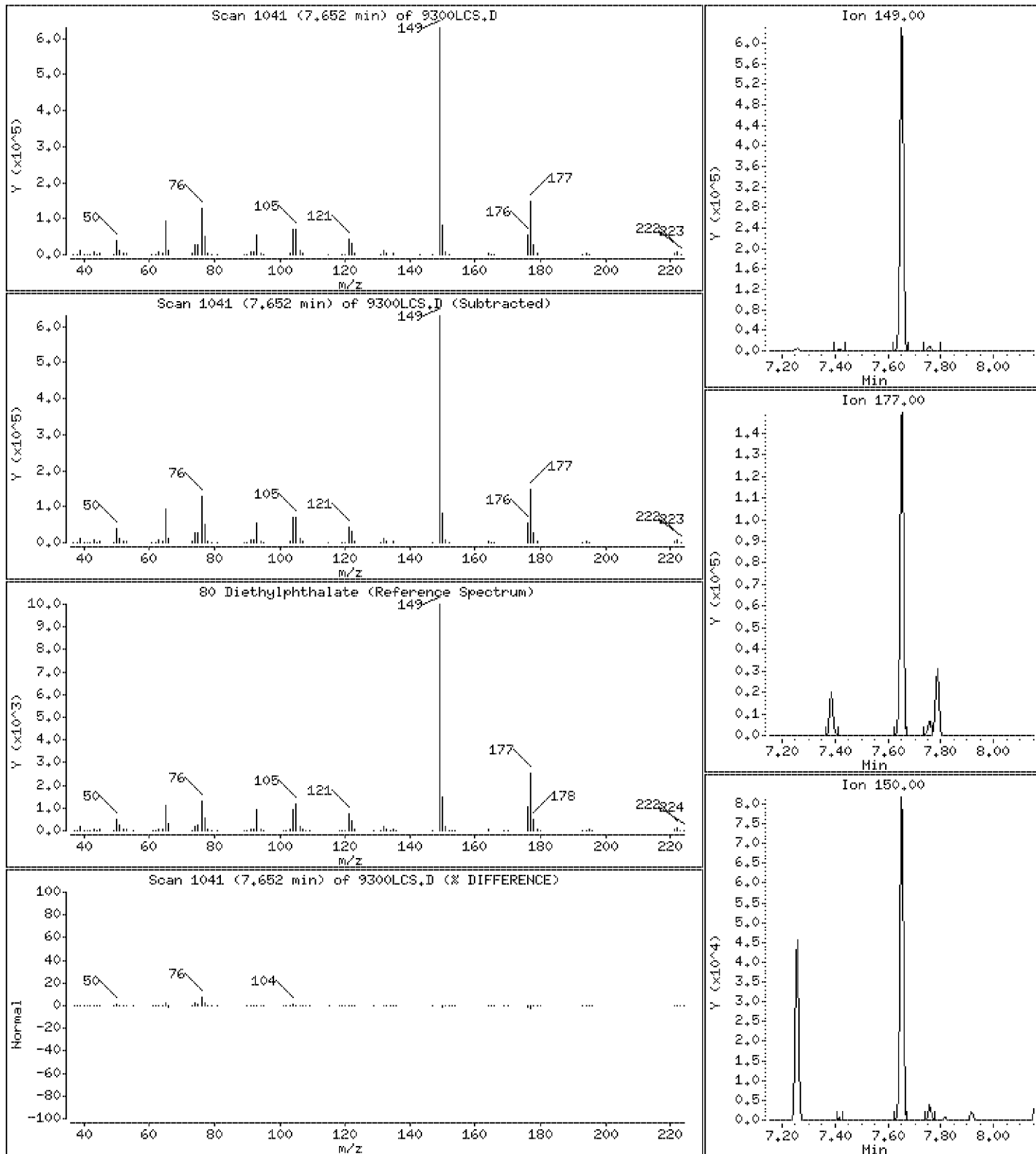
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

80 Diethylphthalate

Concentration: 1820 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

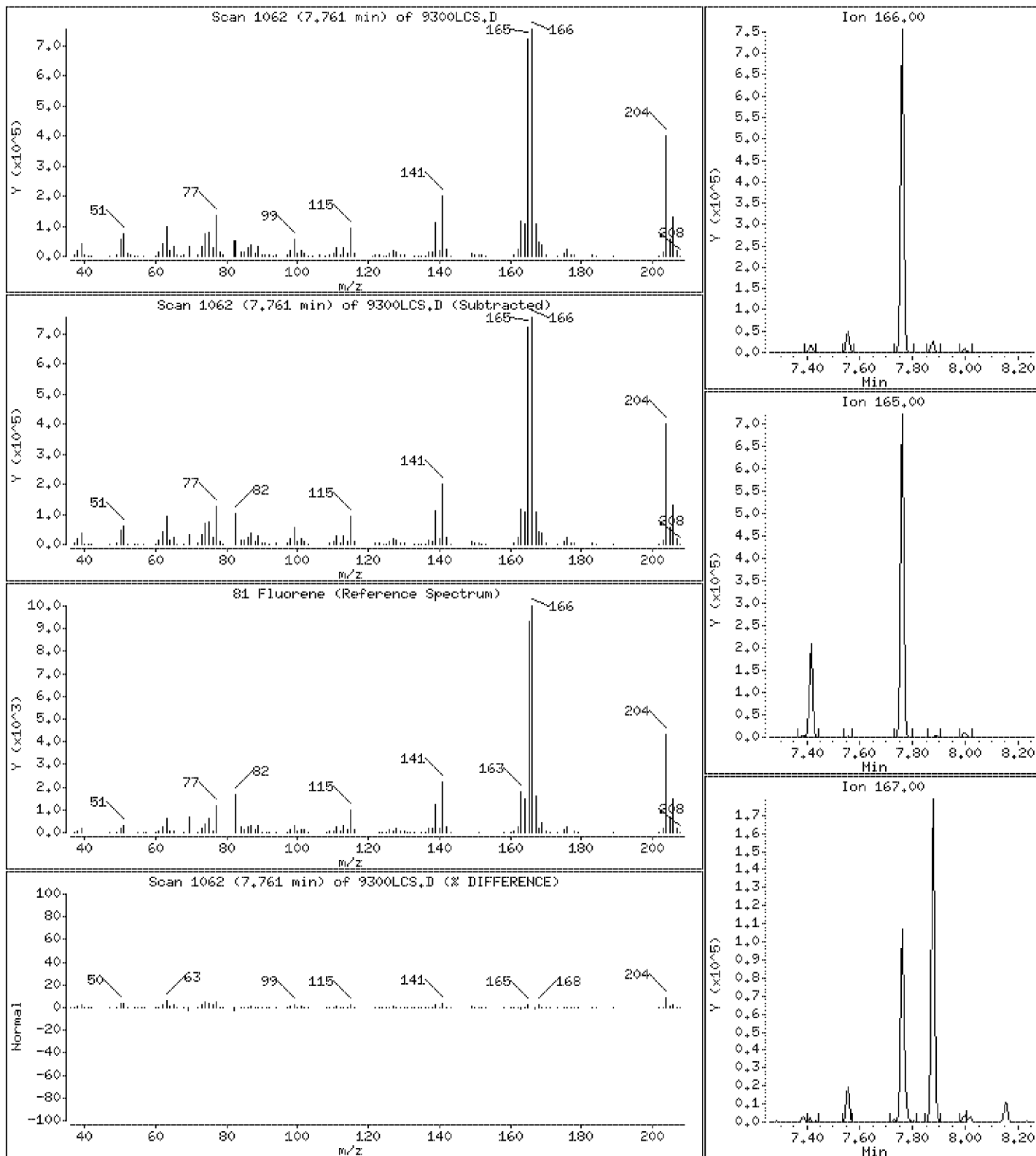
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

81 Fluorene

Concentration: 1710 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

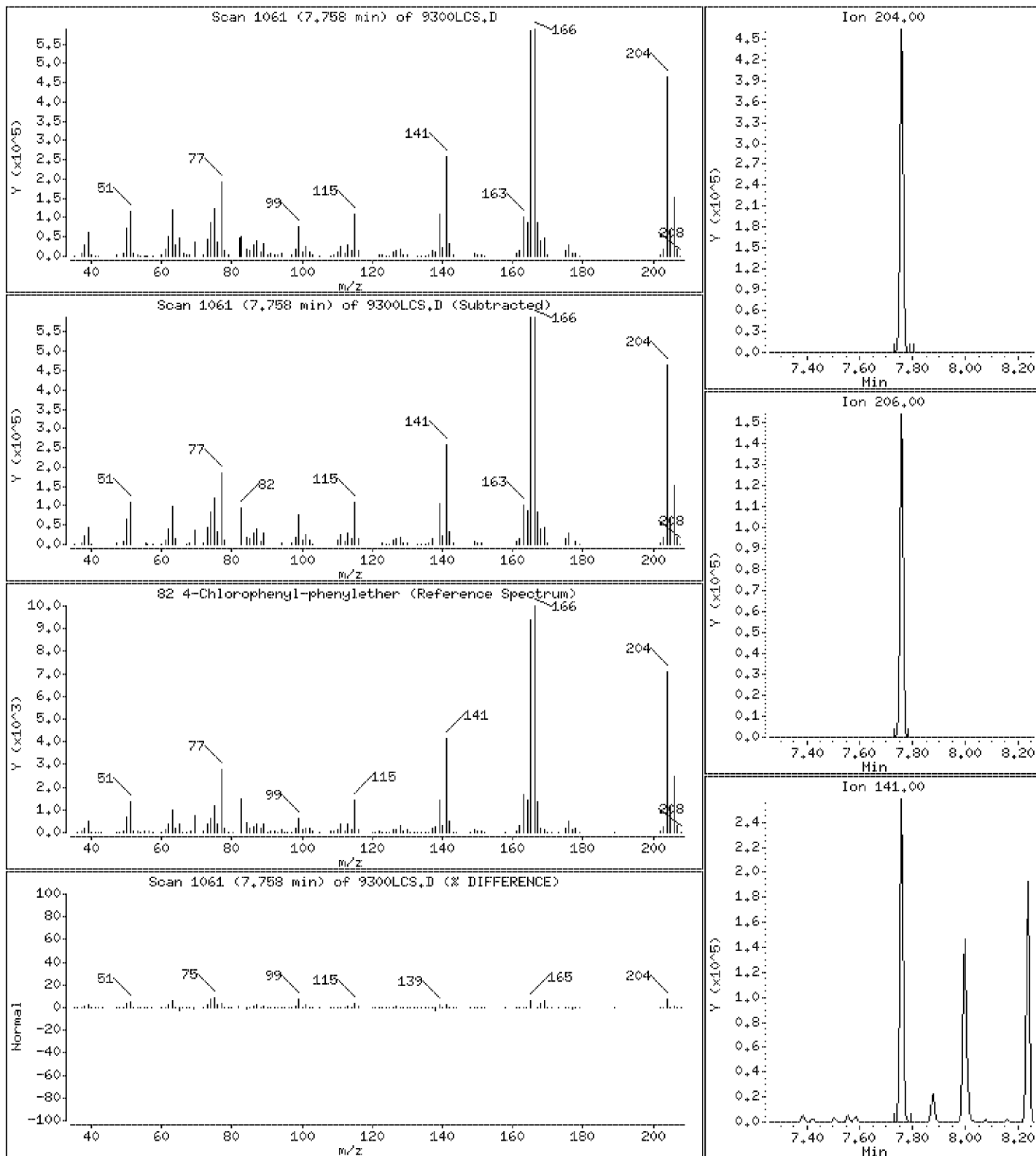
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

82 4-Chlorophenyl-phenylether

Concentration: 1730 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

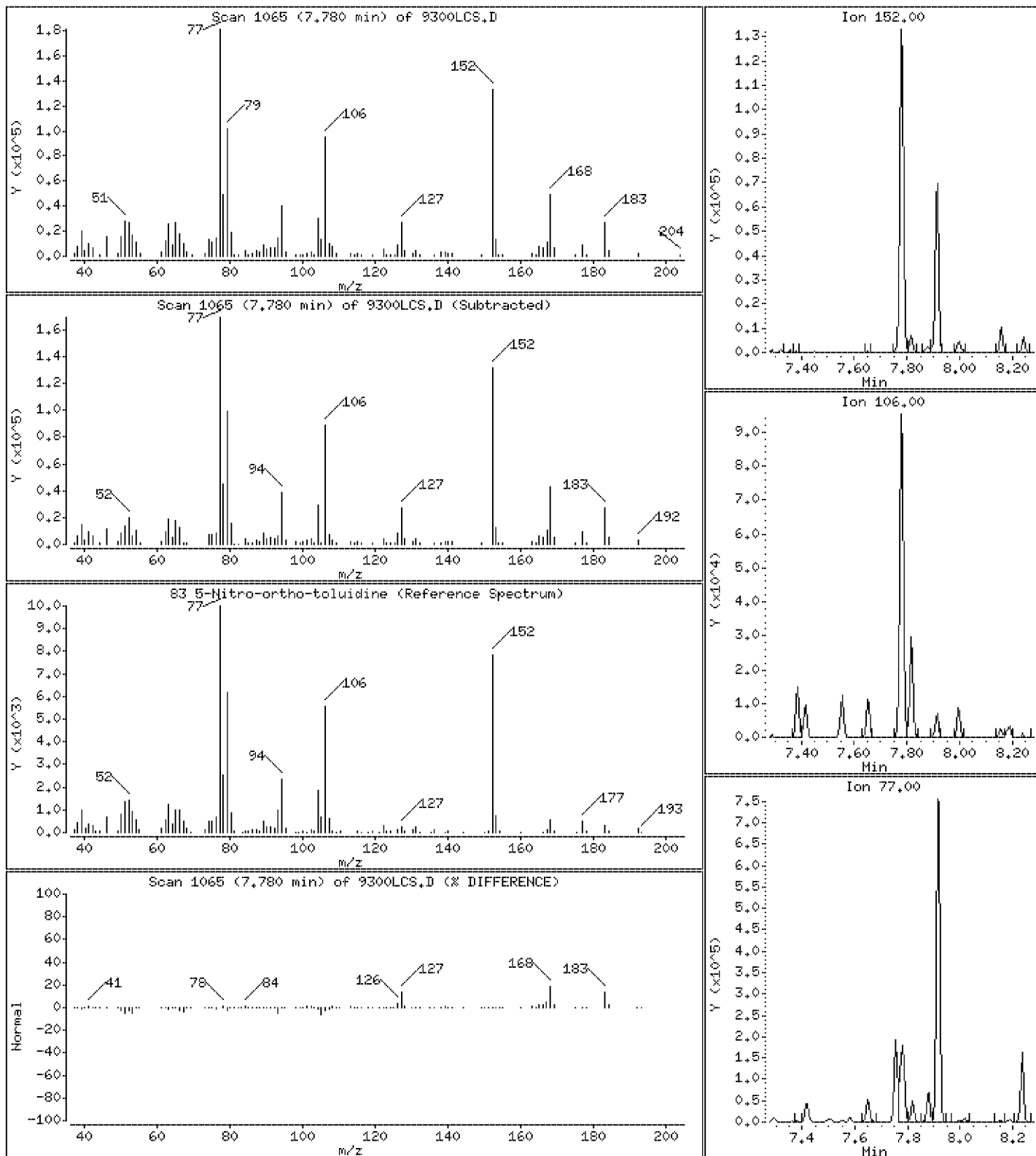
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

83 5-Nitro-ortho-toluidine

Concentration: 1430 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

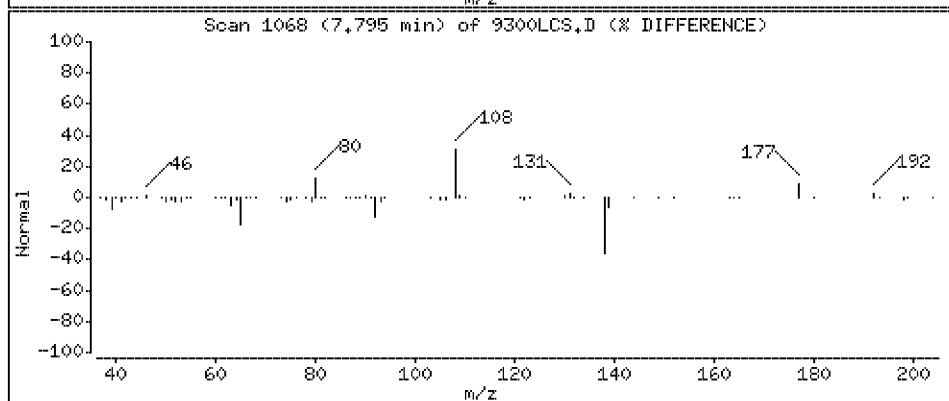
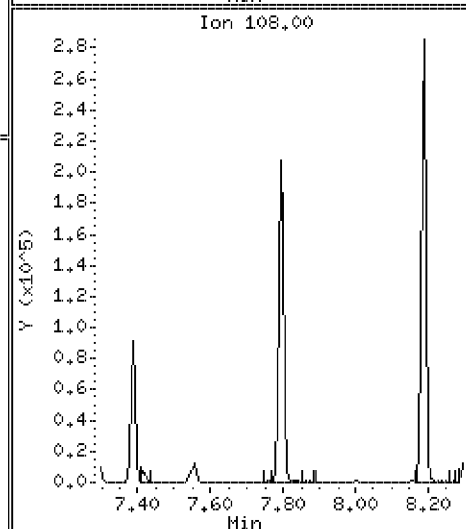
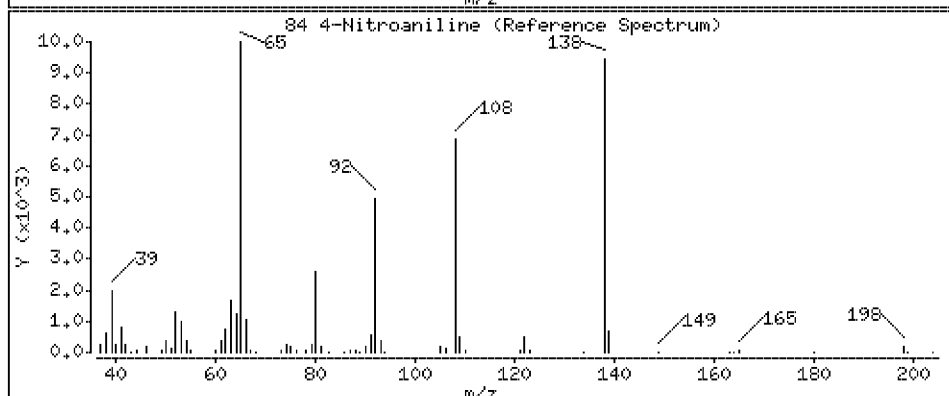
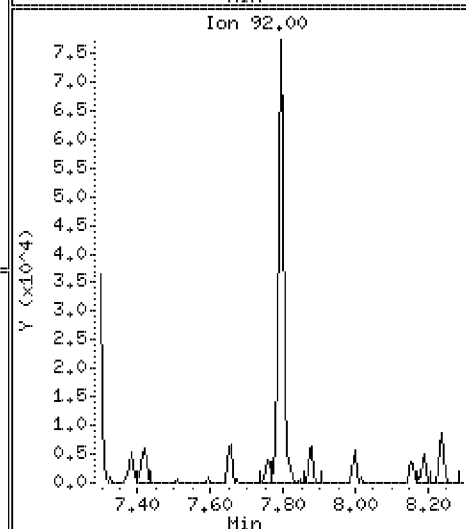
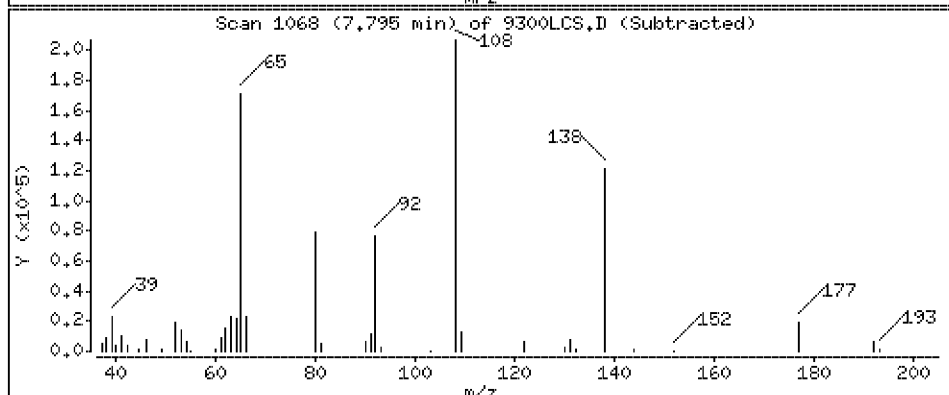
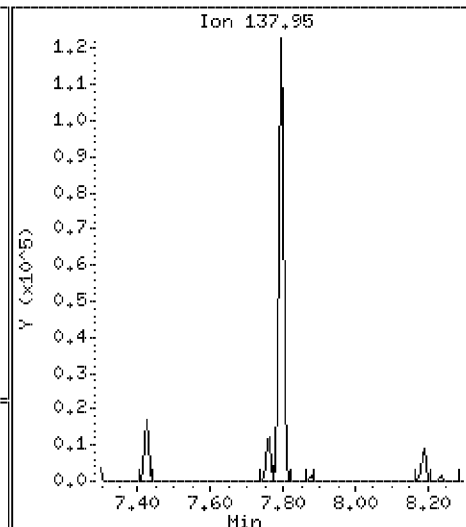
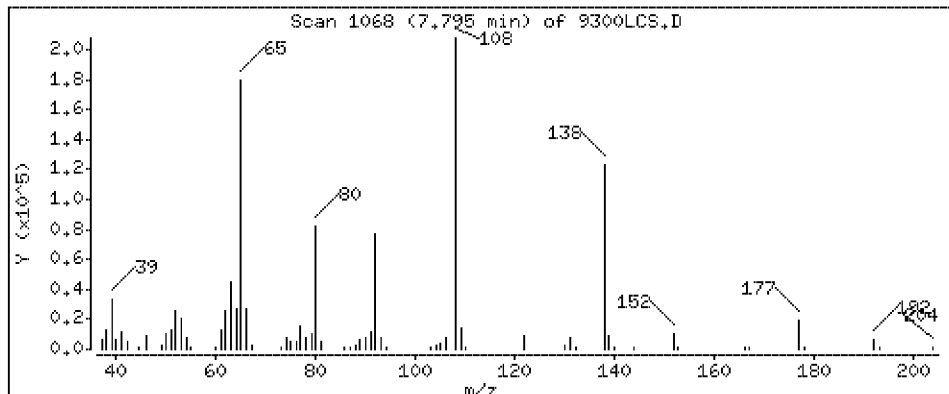
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

84 4-Nitroaniline

Concentration: 1910 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

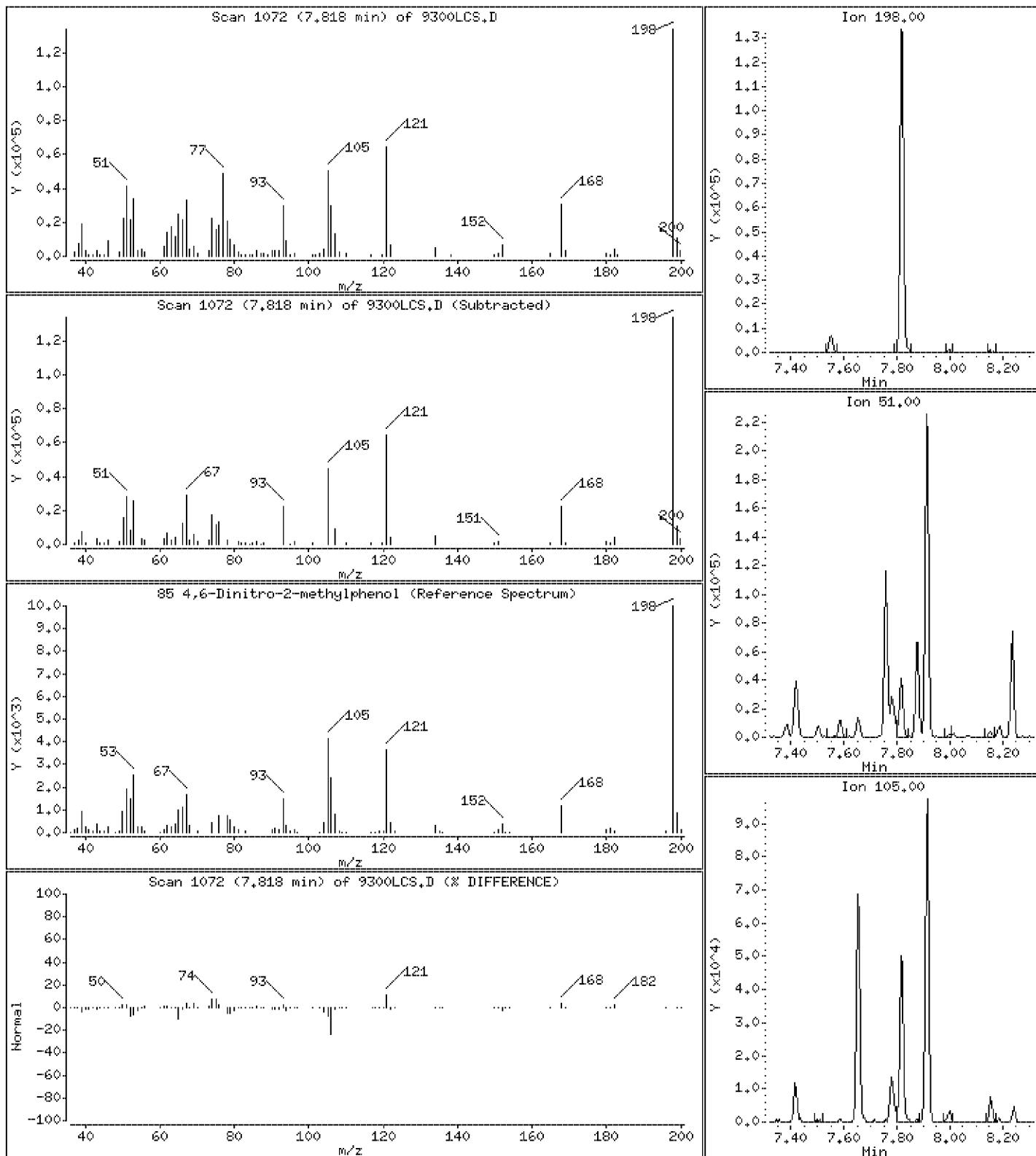
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

85 4,6-Dinitro-2-methylphenol

Concentration: 1490 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

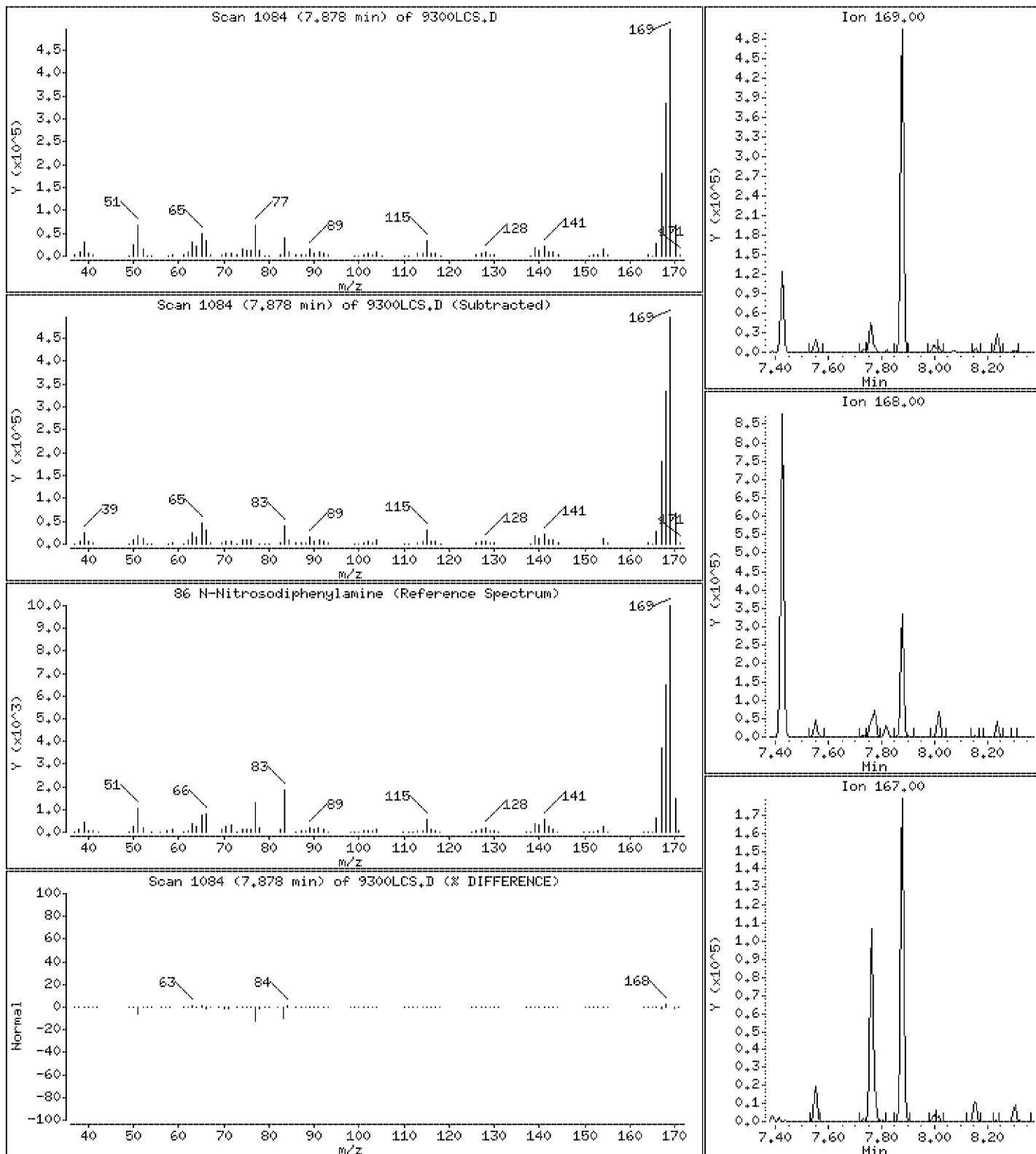
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

86 N-Nitrosodiphenylamine

Concentration: 1650 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

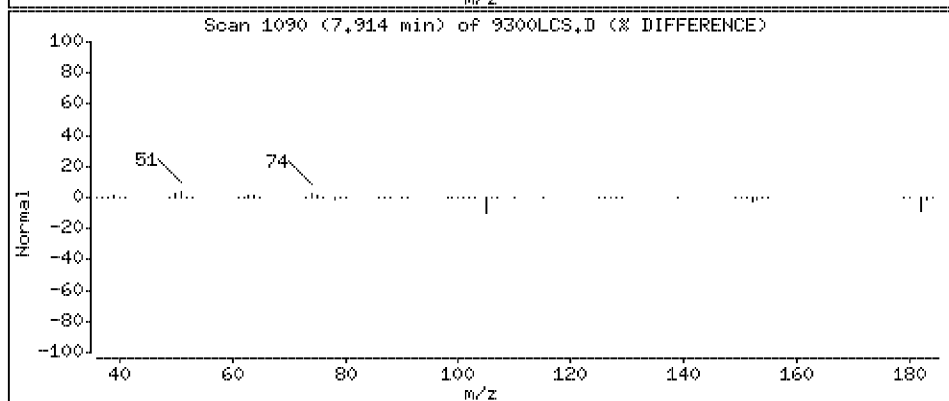
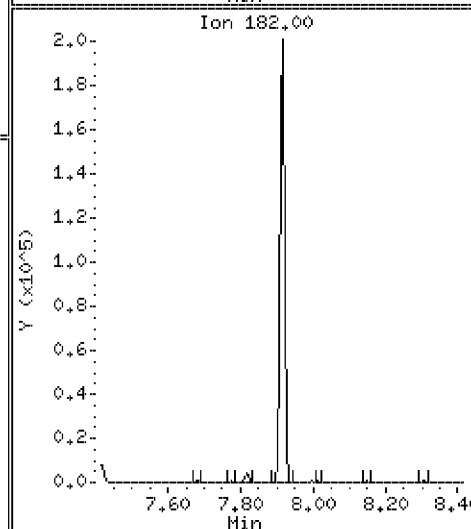
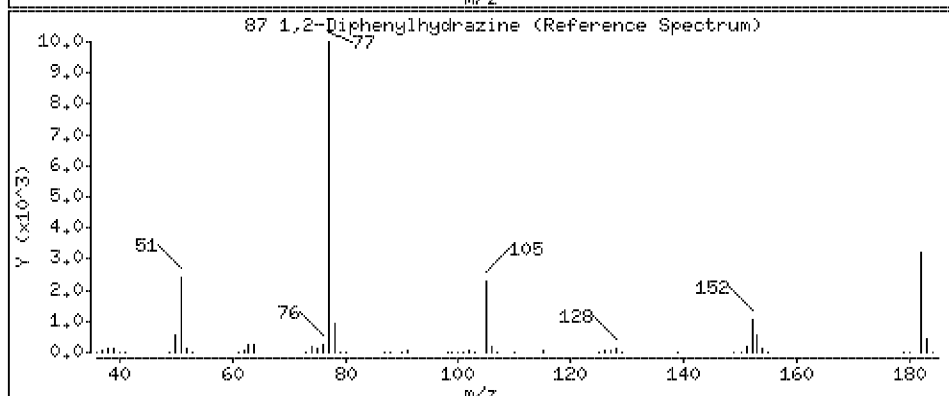
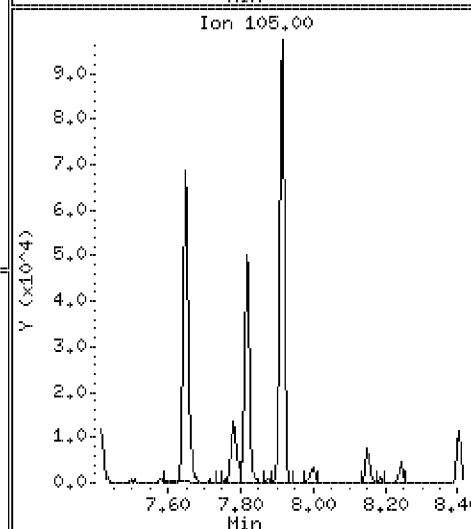
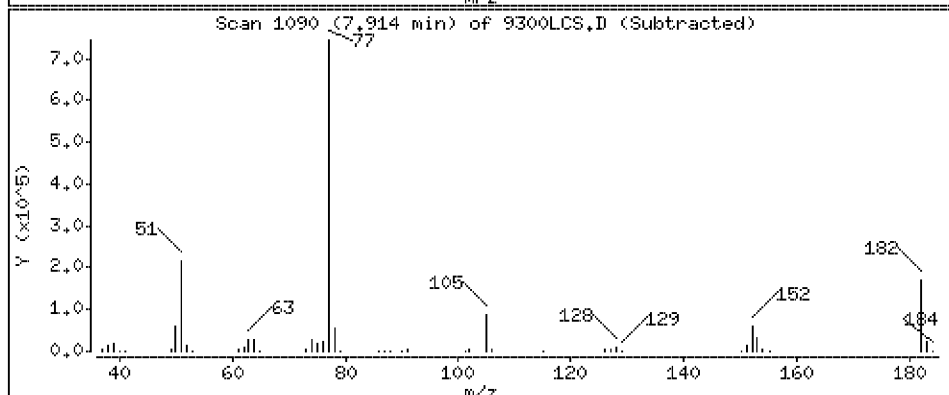
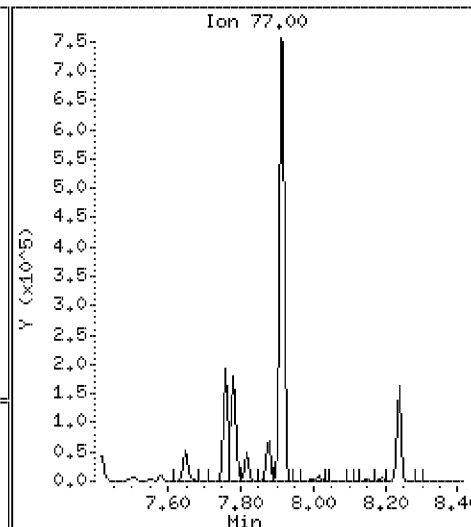
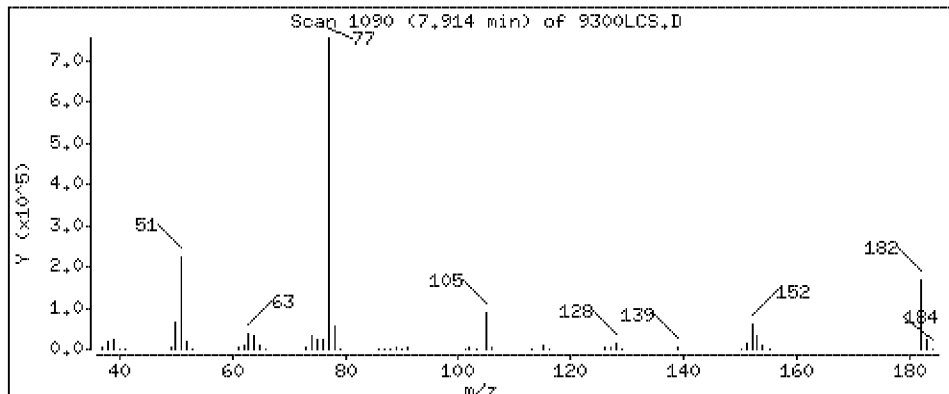
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

87 1,2-Diphenylhydrazine

Concentration: 1950 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

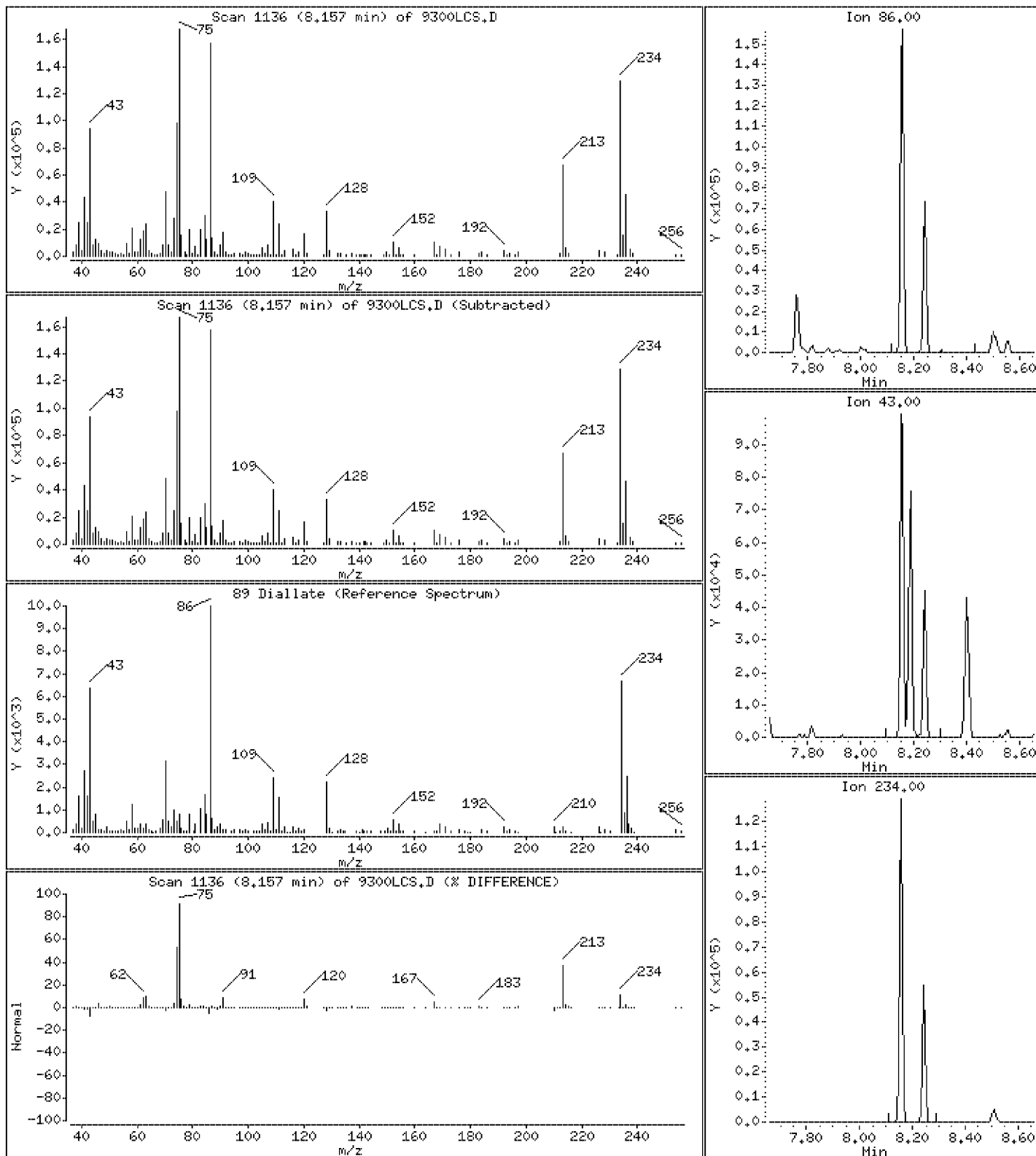
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

89 Diallate

Concentration: 1500 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

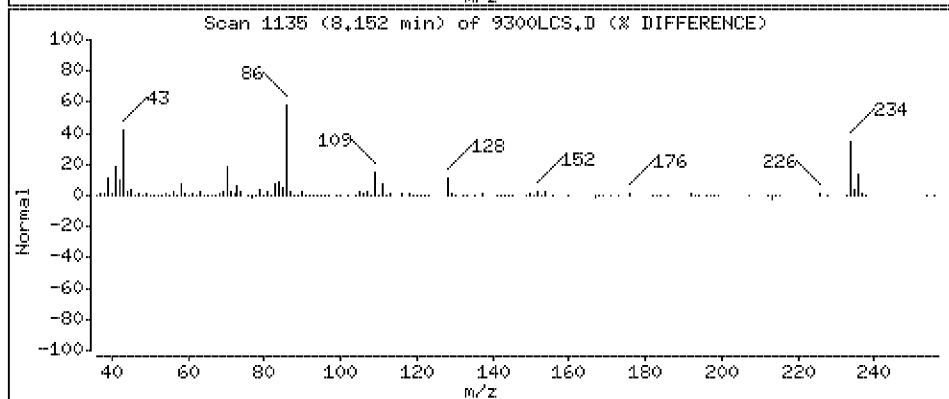
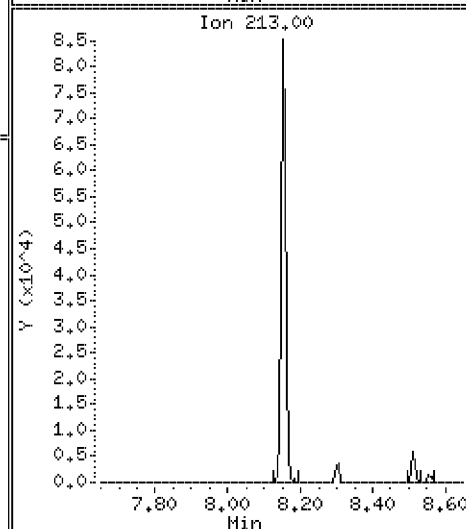
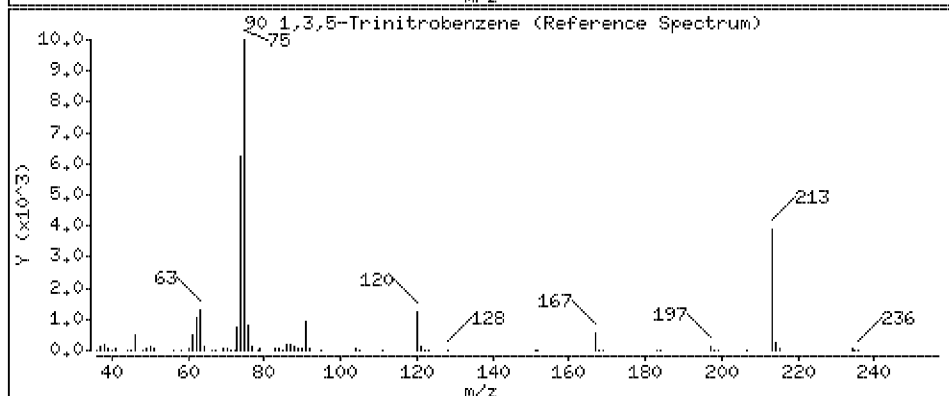
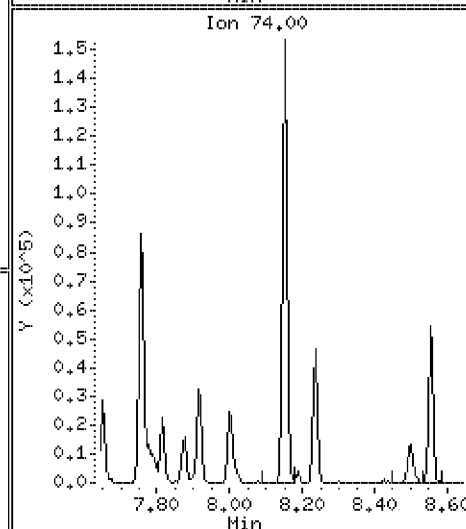
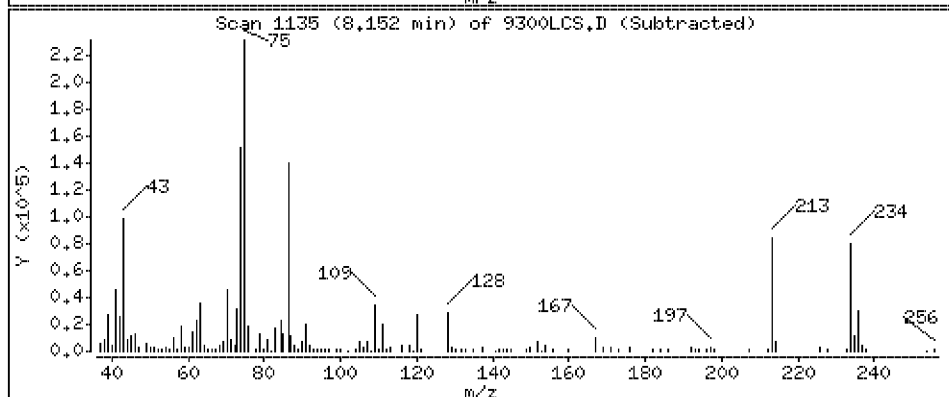
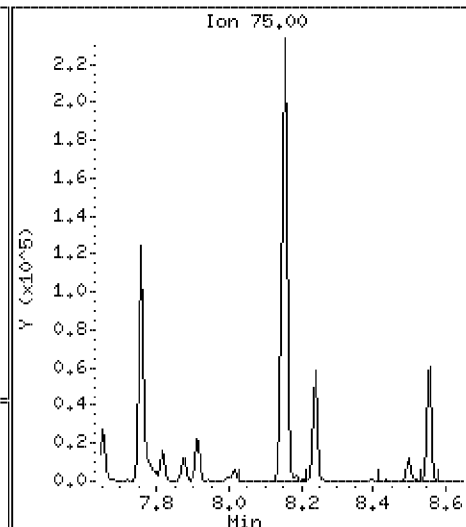
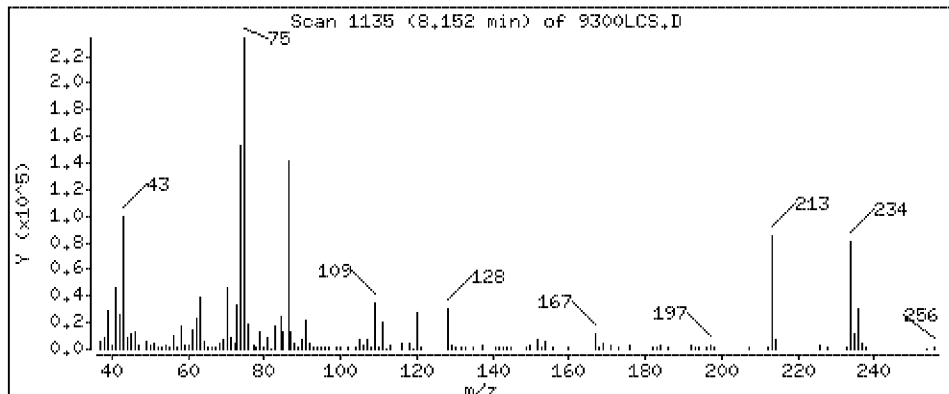
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

90 1,3,5-Trinitrobenzene

Concentration: 935 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

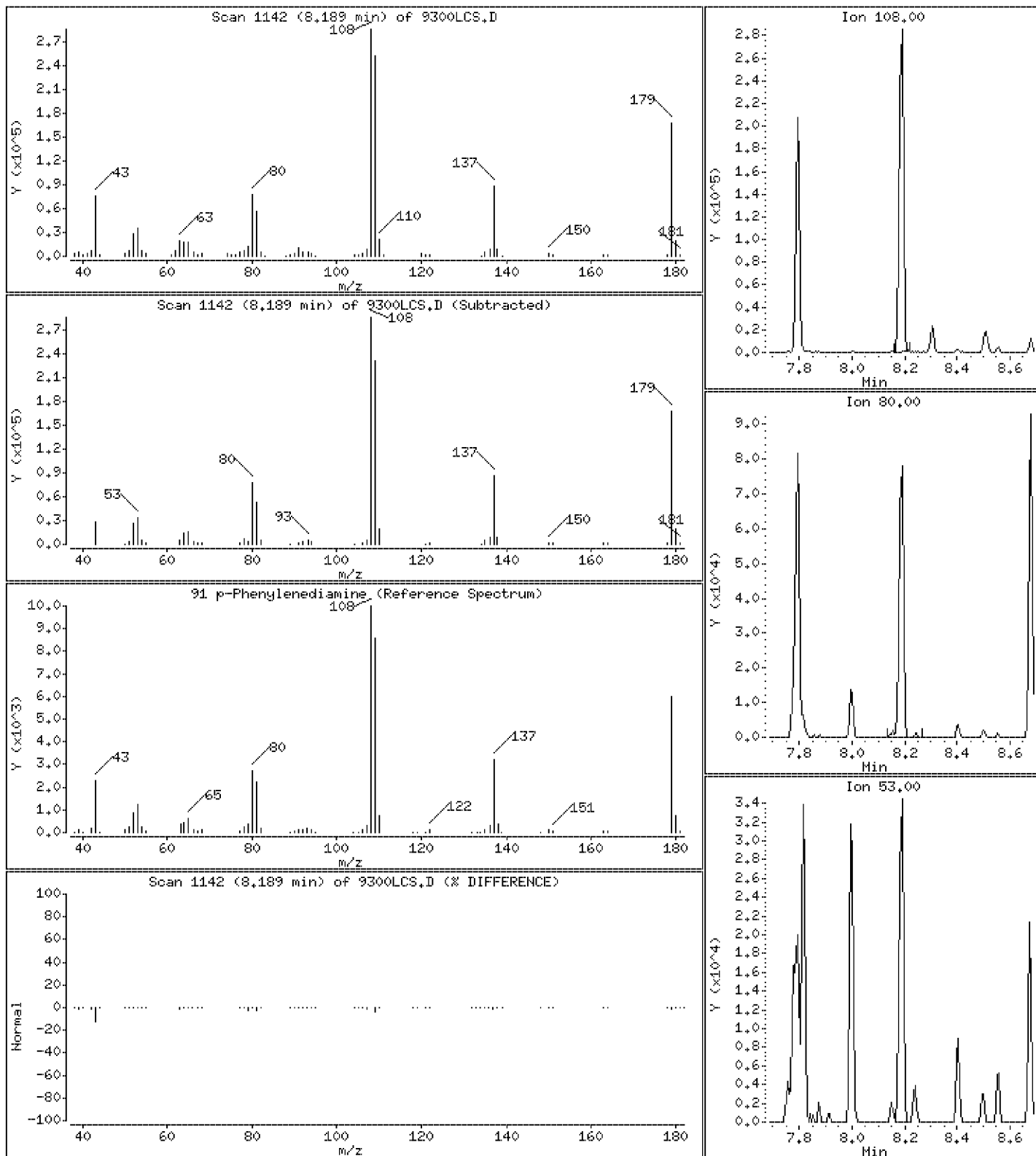
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

91 p-Phenylenediamine

Concentration: 1620 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

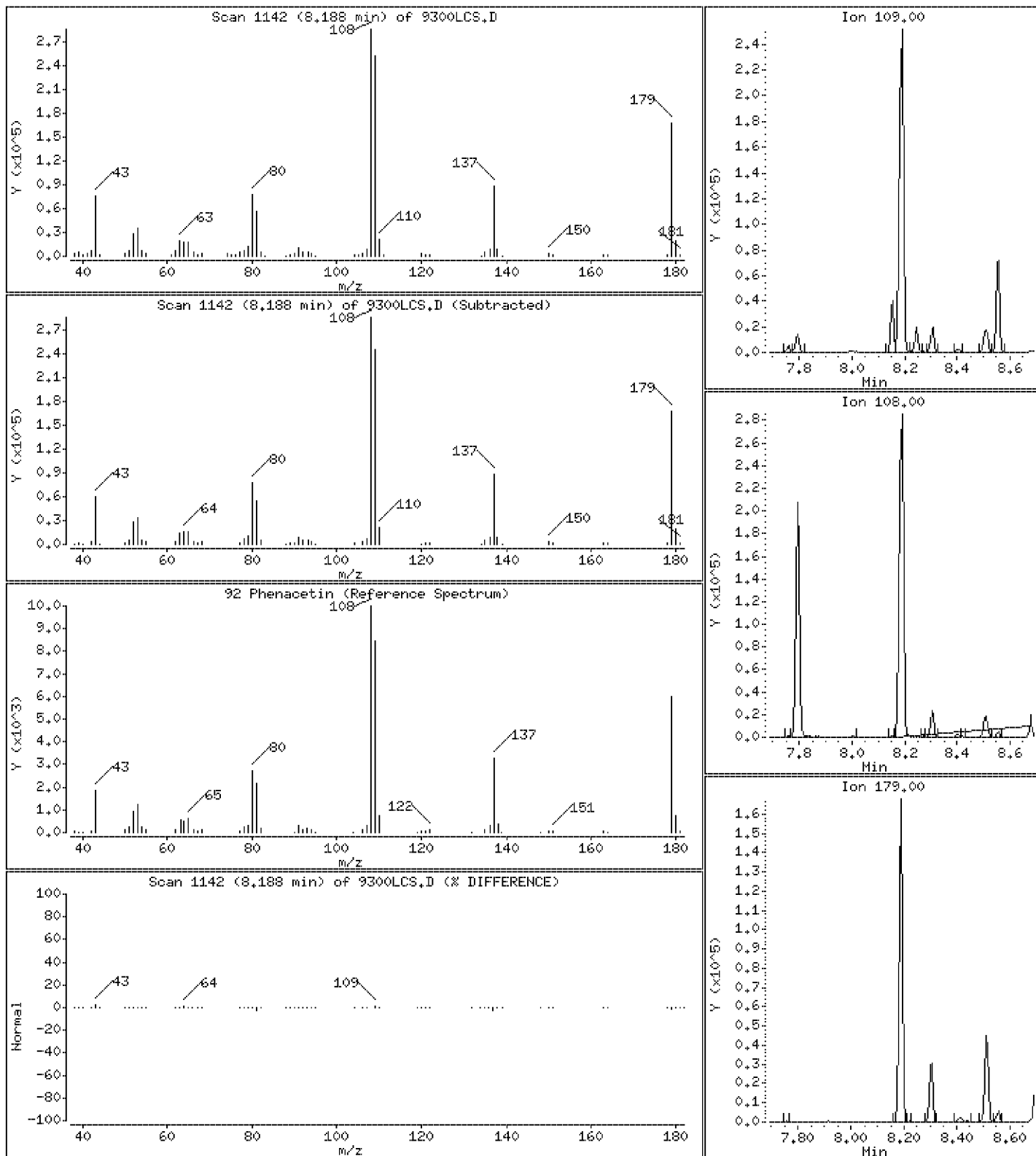
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

92 Phenacetin

Concentration: 1510 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

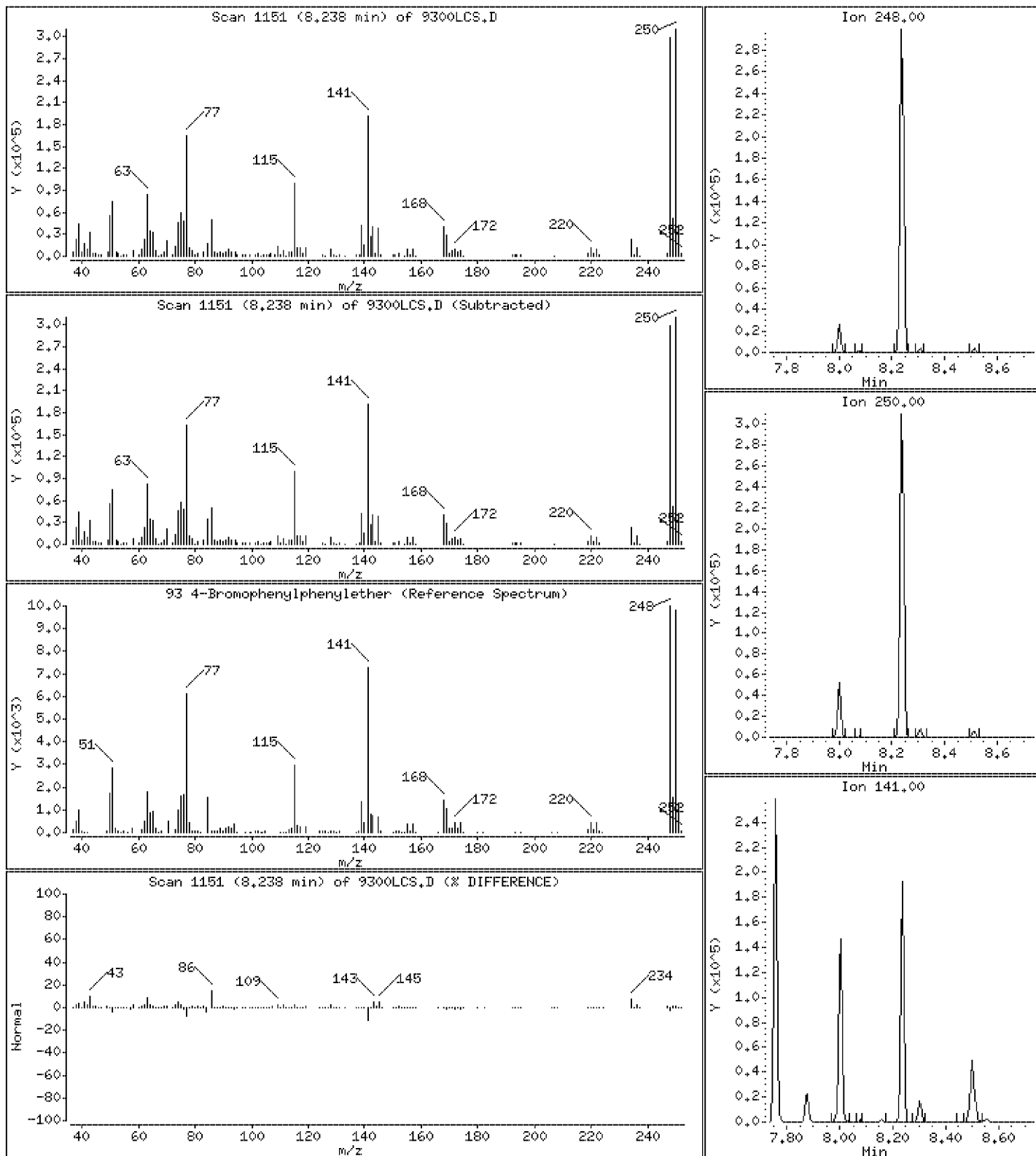
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

93 4-Bromophenylphenylether

Concentration: 1600 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

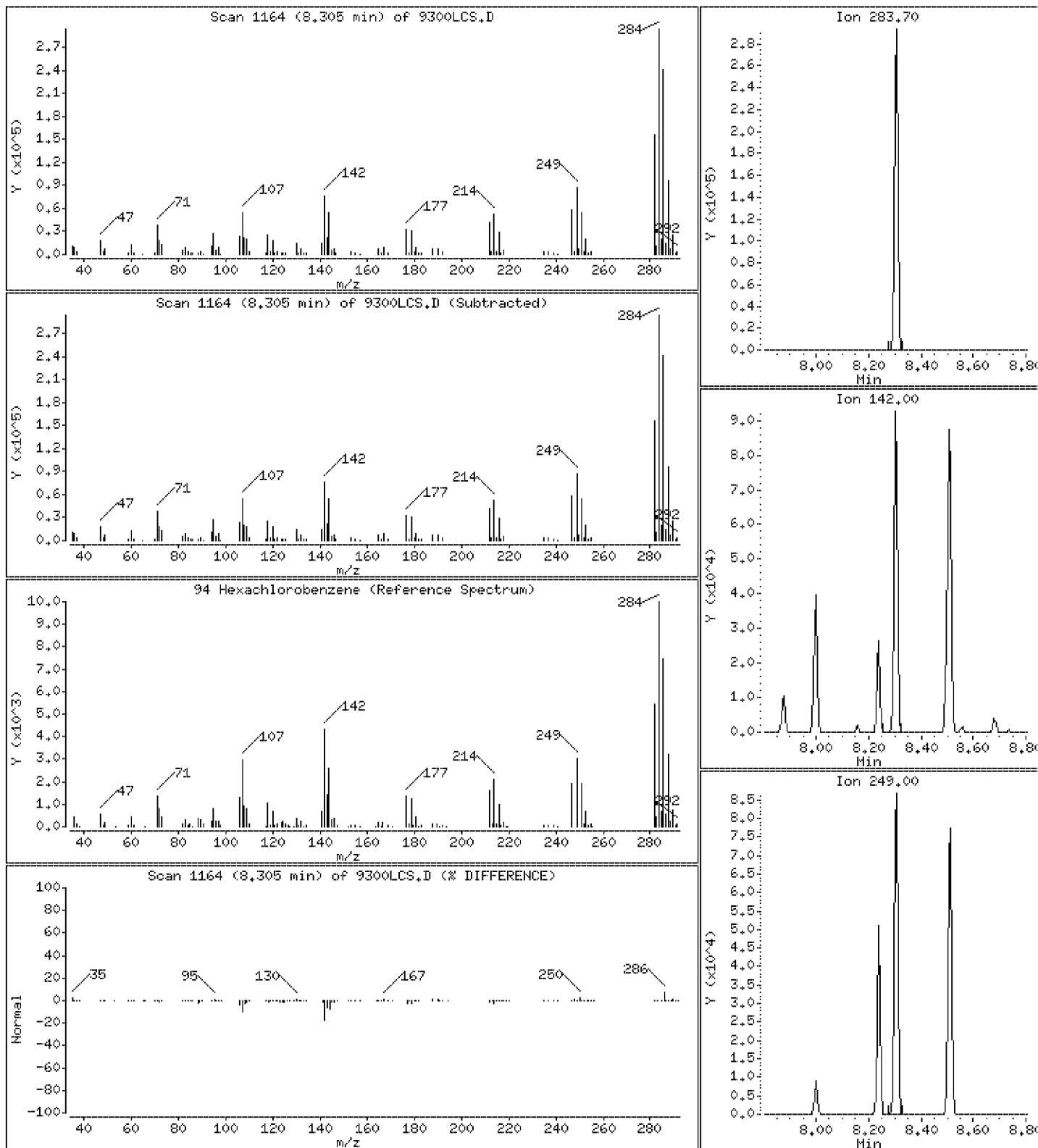
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

94 Hexachlorobenzene

Concentration: 1520 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

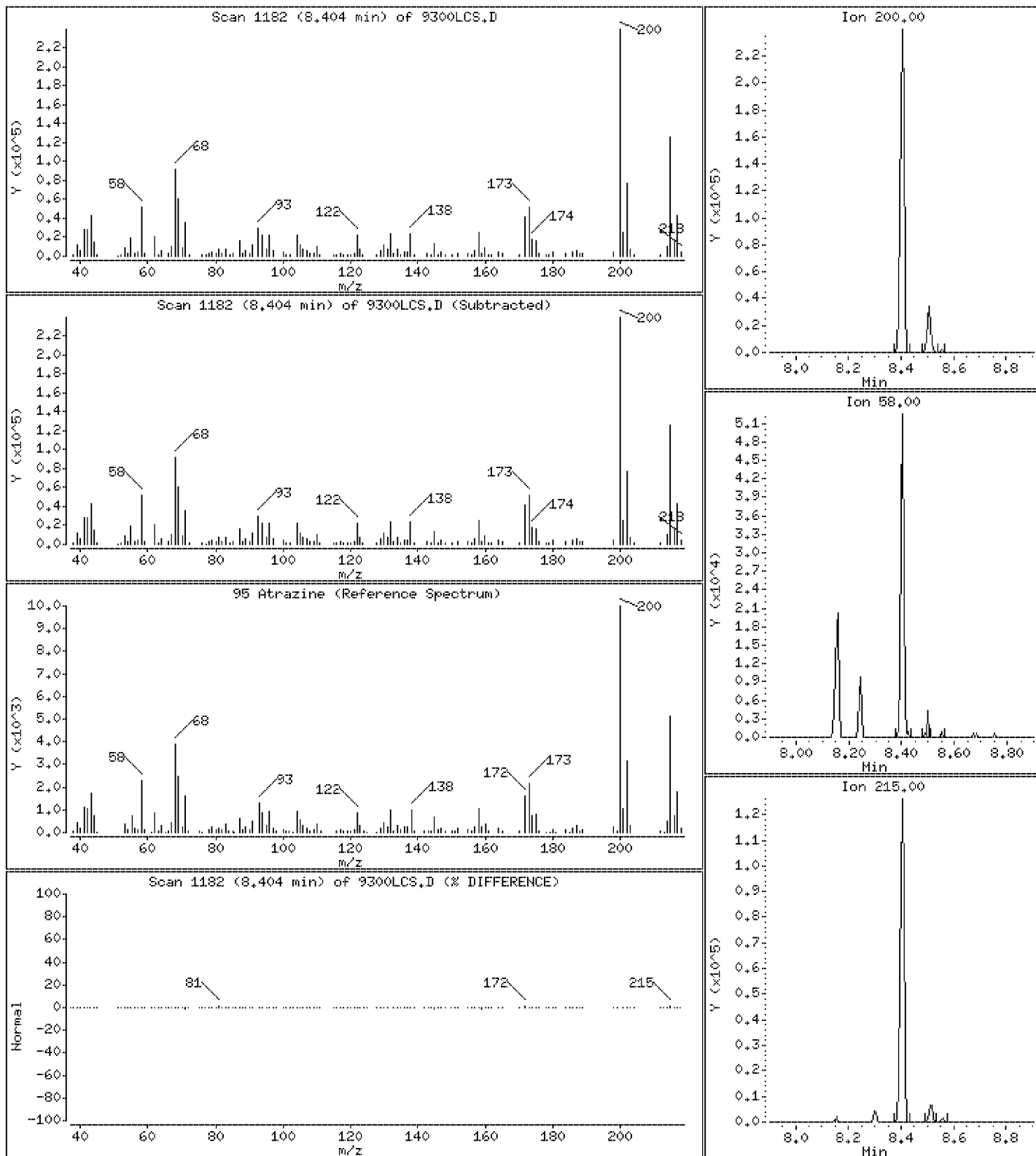
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

95 Atrazine

Concentration: 1420 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

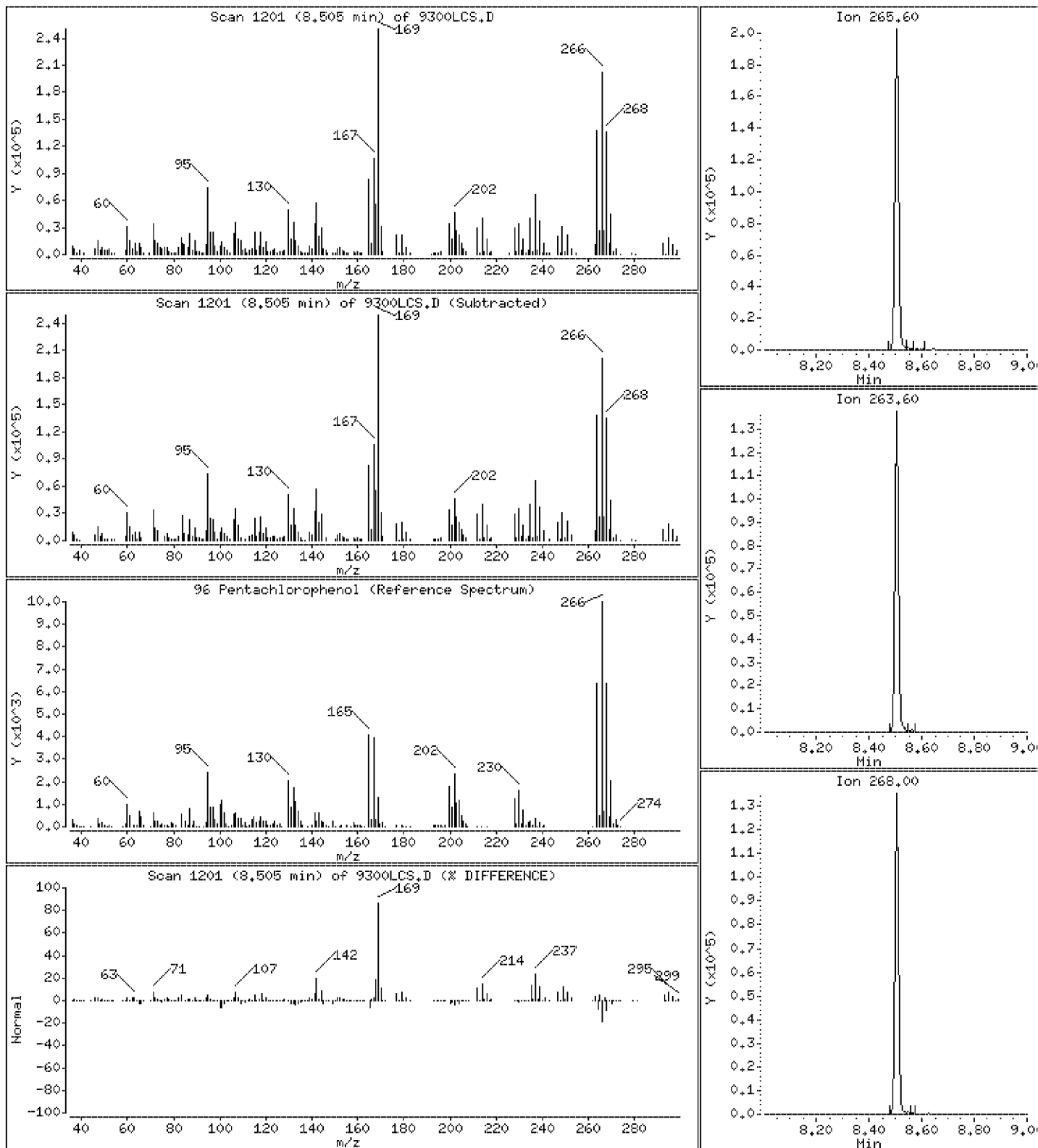
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

96 Pentachlorophenol

Concentration: 1930 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

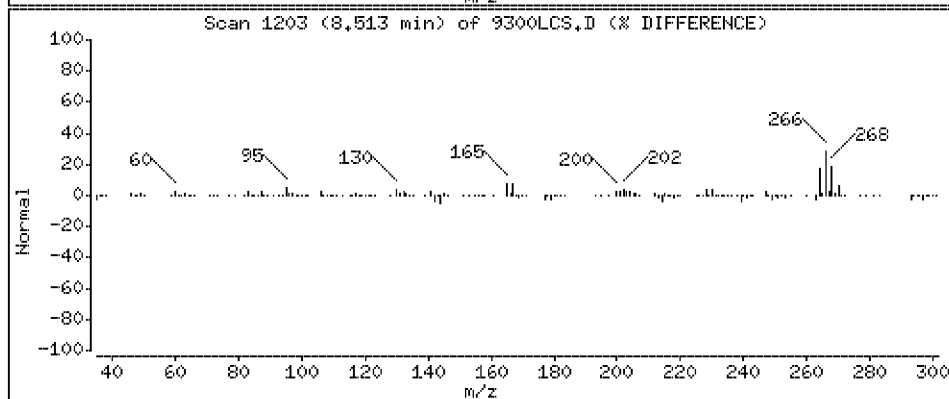
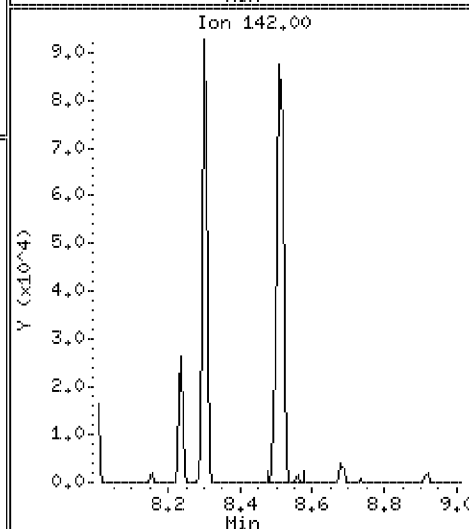
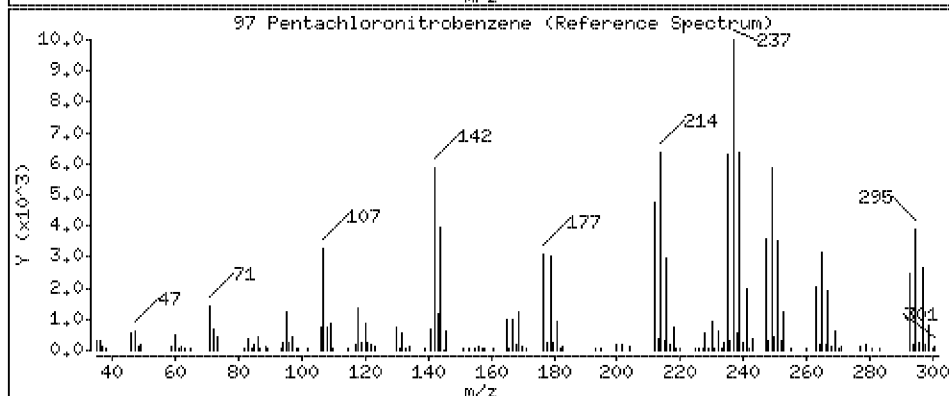
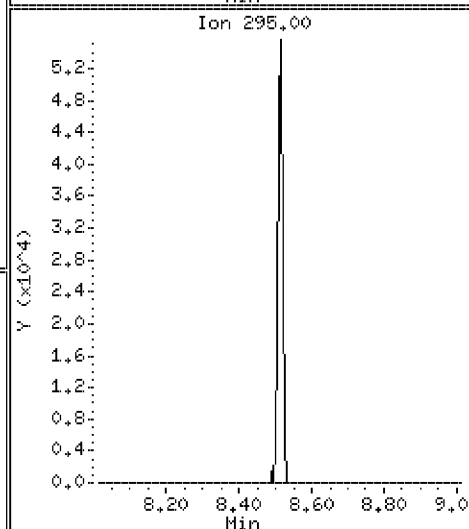
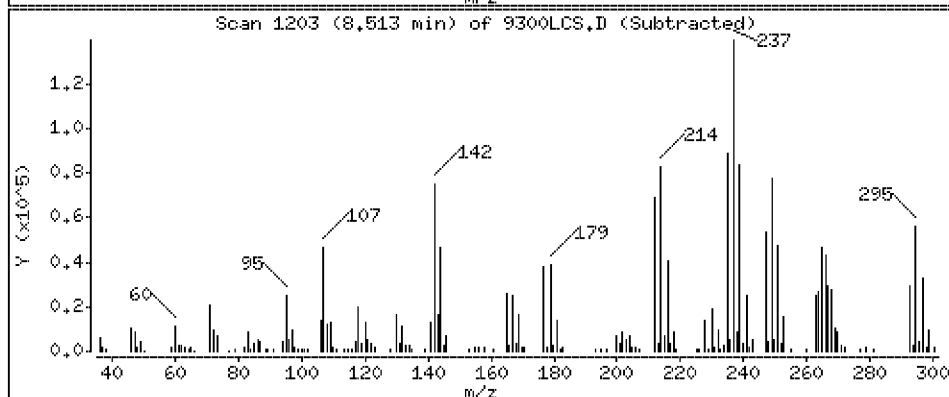
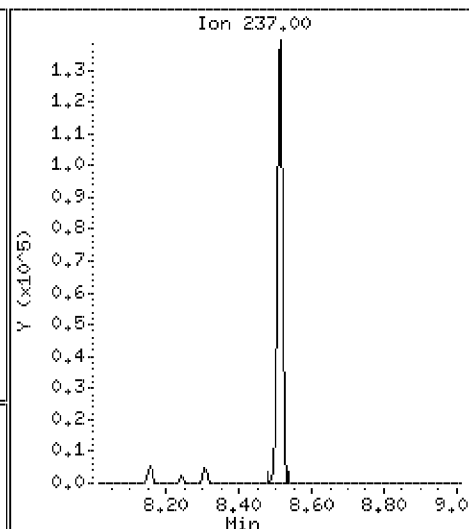
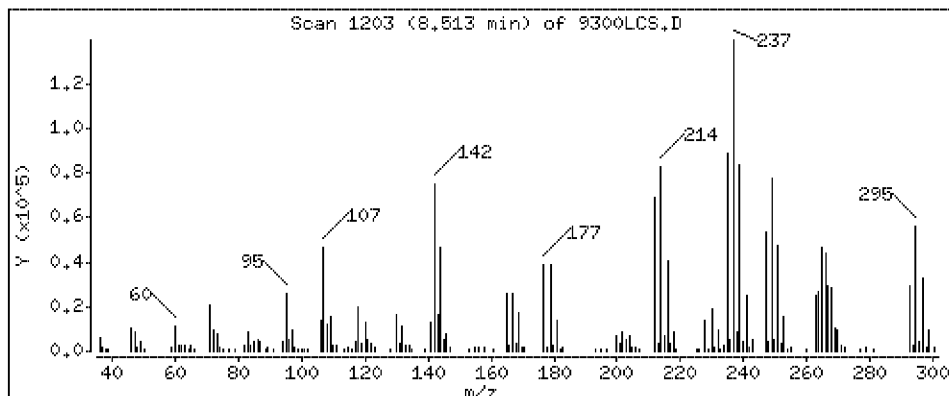
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

97 Pentachloronitrobenzene

Concentration: 1910 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

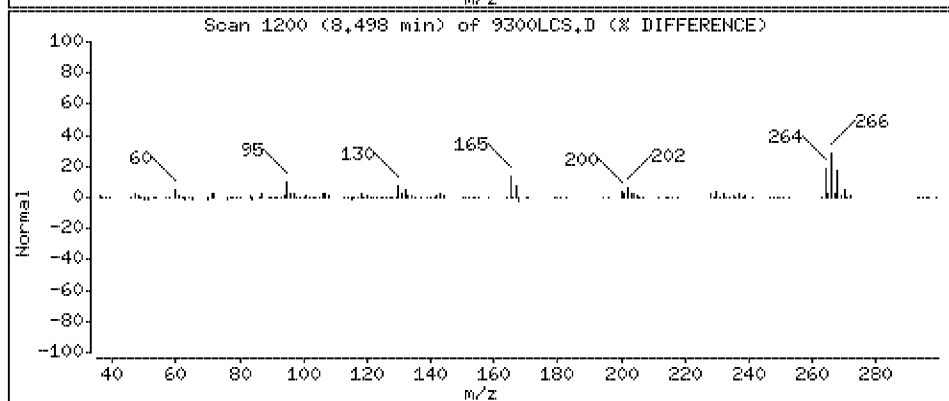
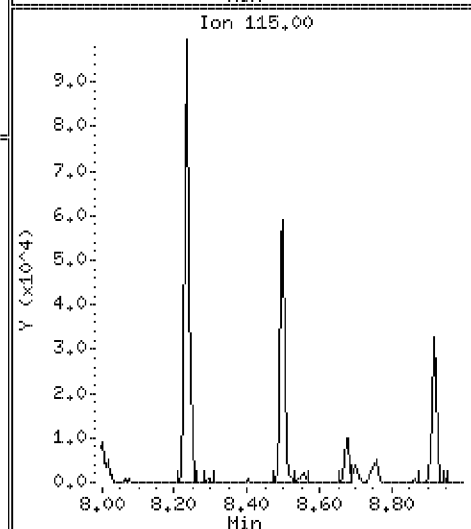
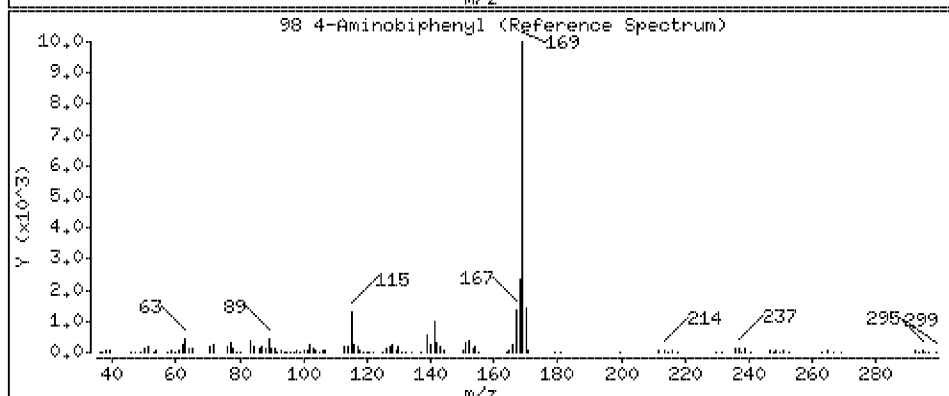
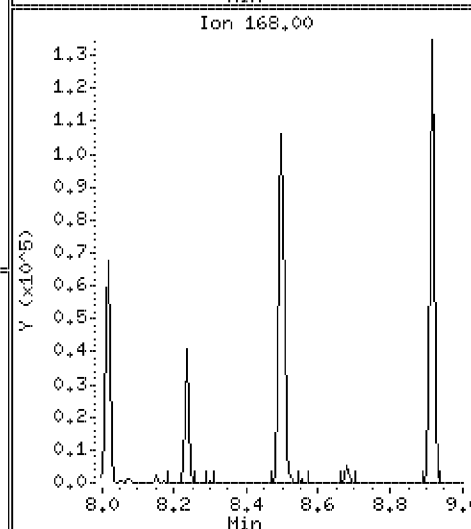
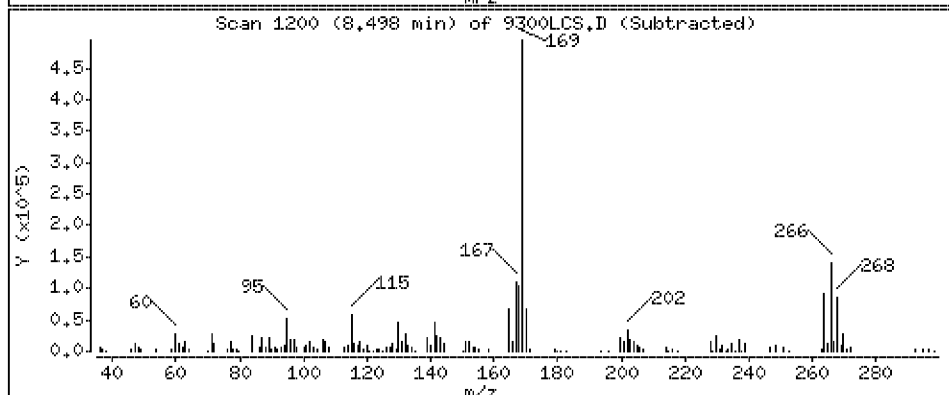
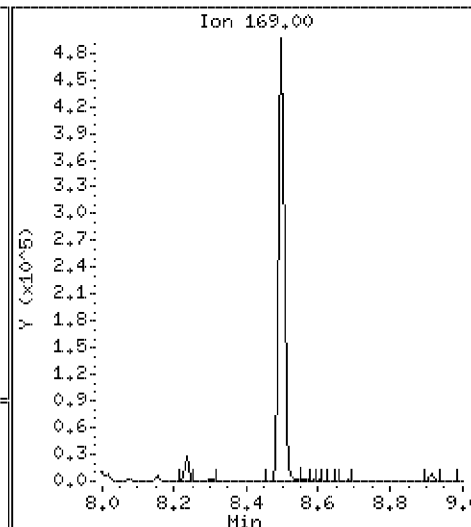
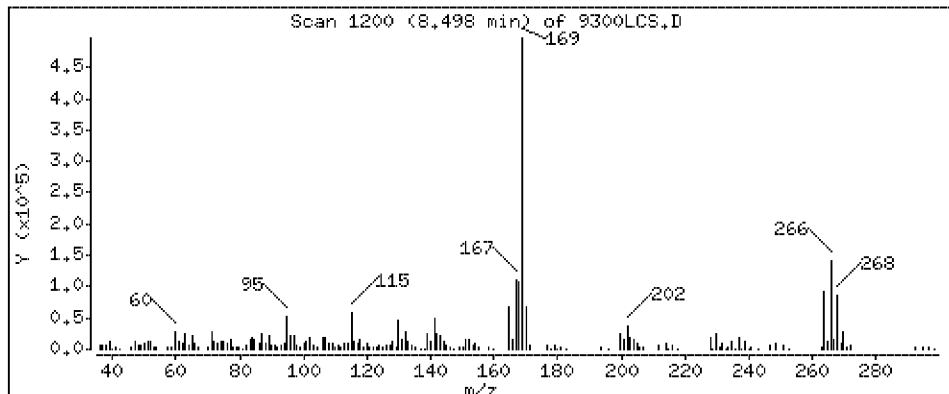
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

98 4-Aminobiphenyl

Concentration: 1250 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

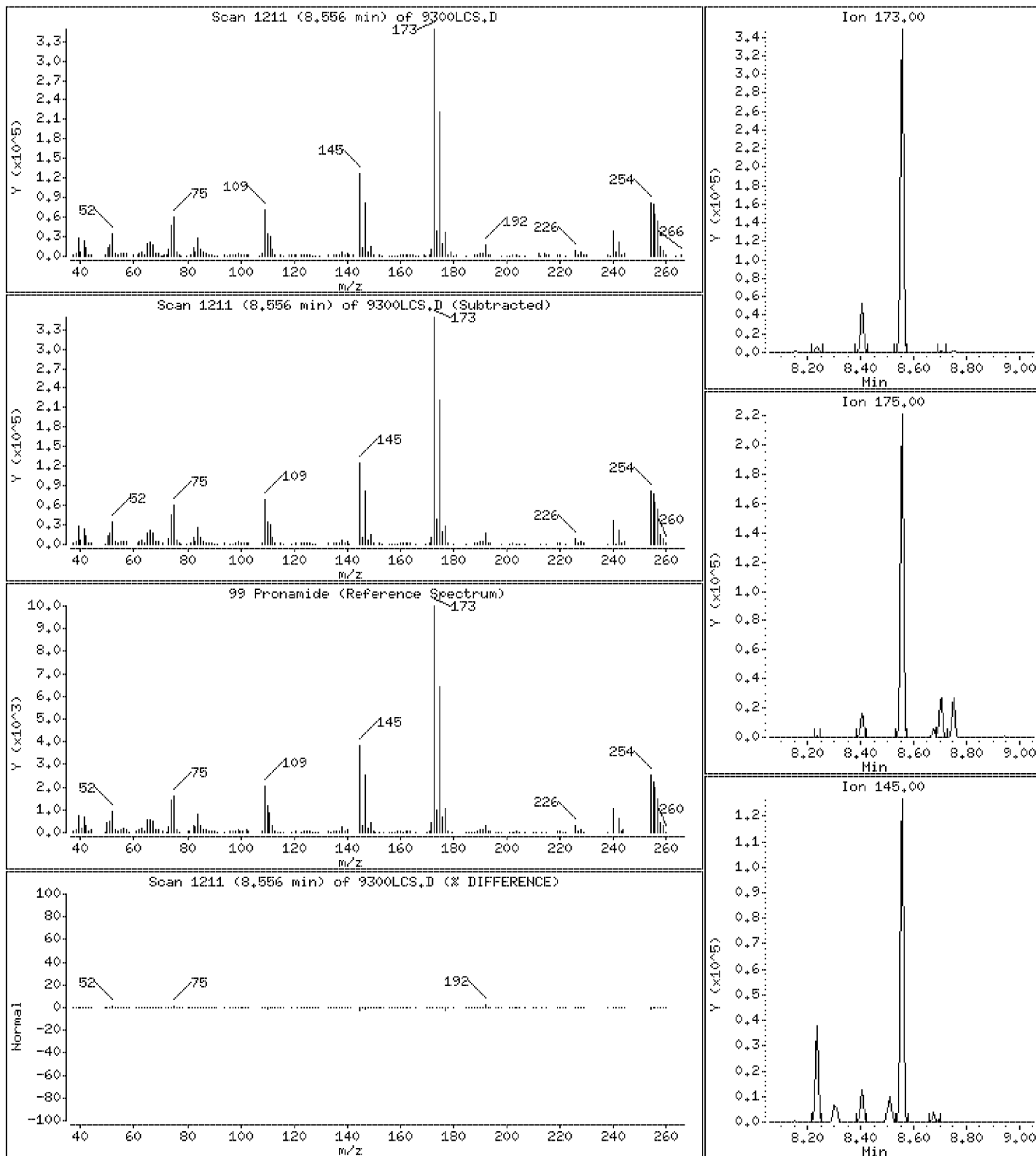
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

99 Pronamide

Concentration: 1620 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

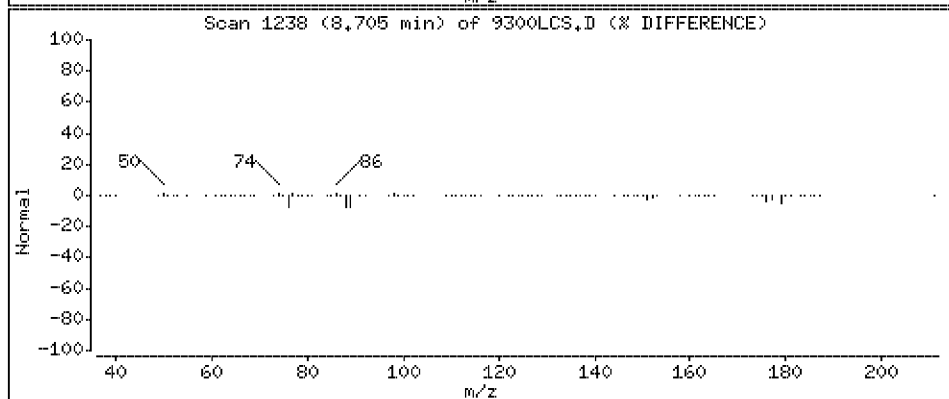
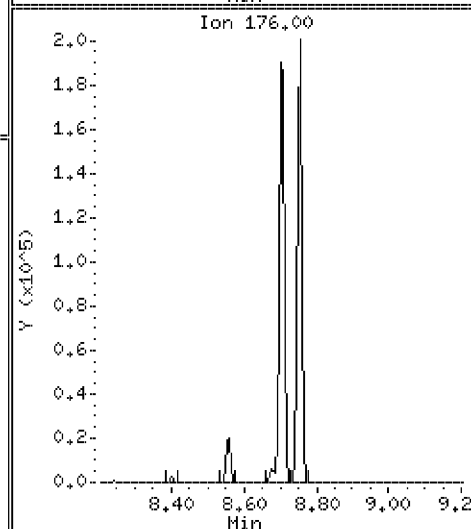
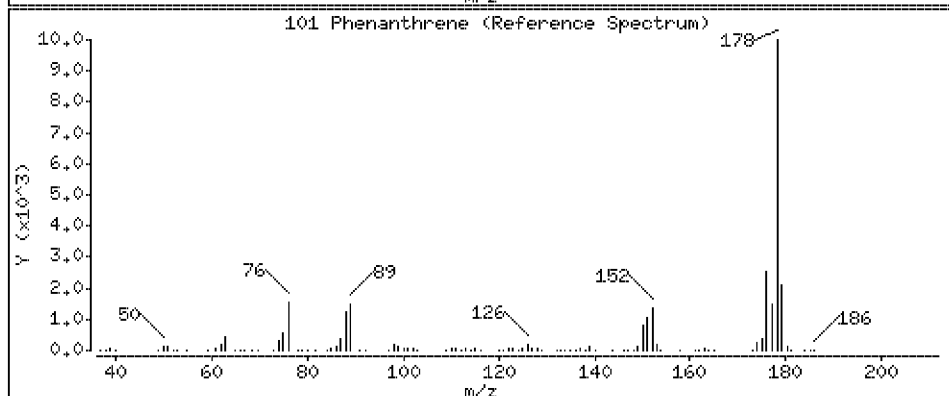
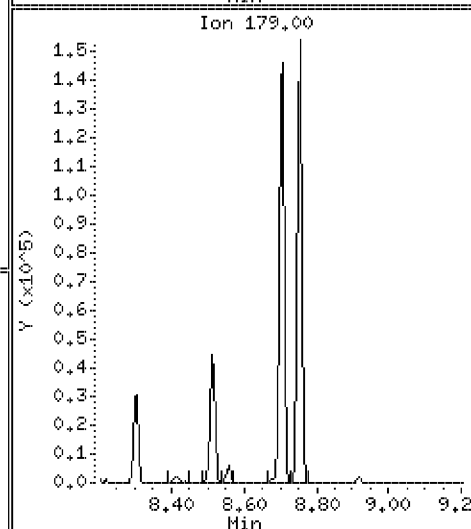
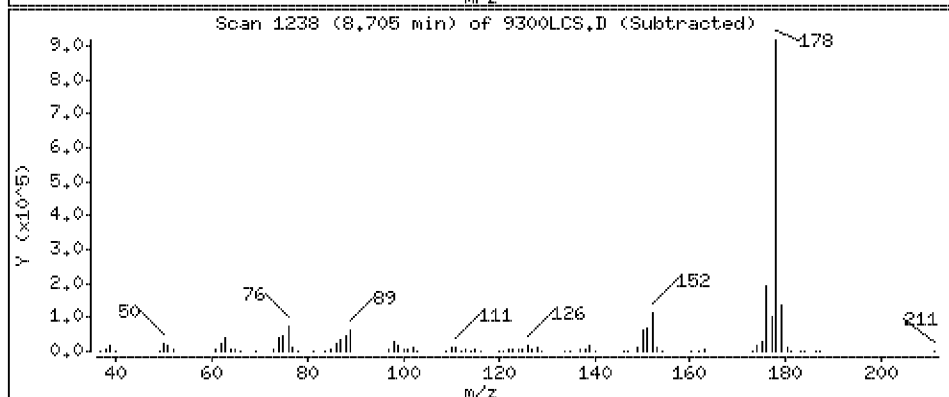
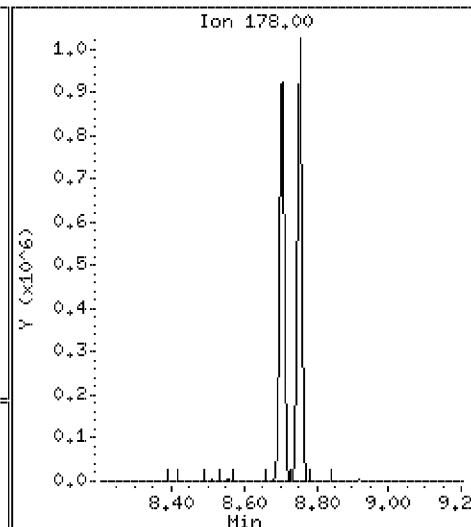
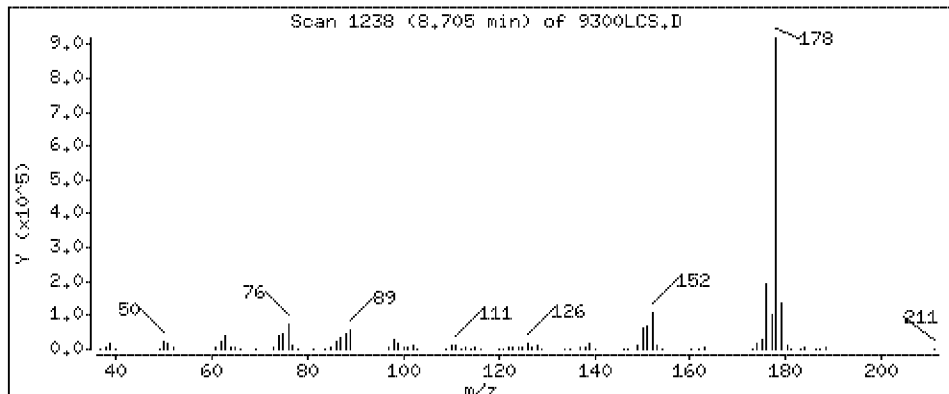
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

101 Phenanthrene

Concentration: 1660 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

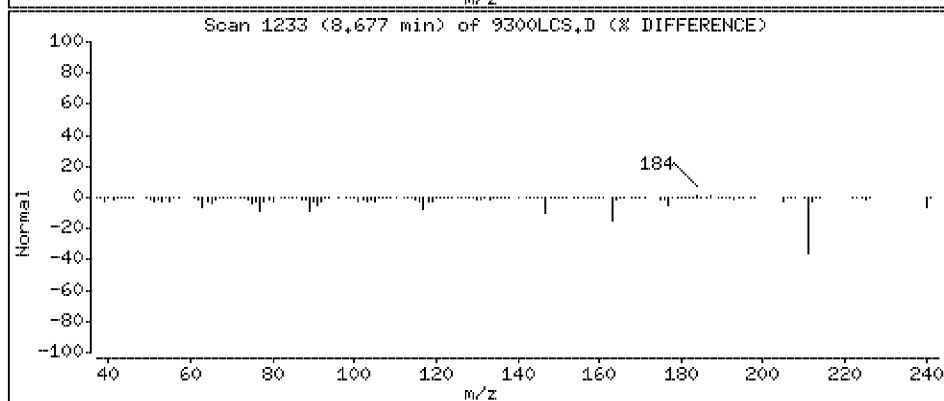
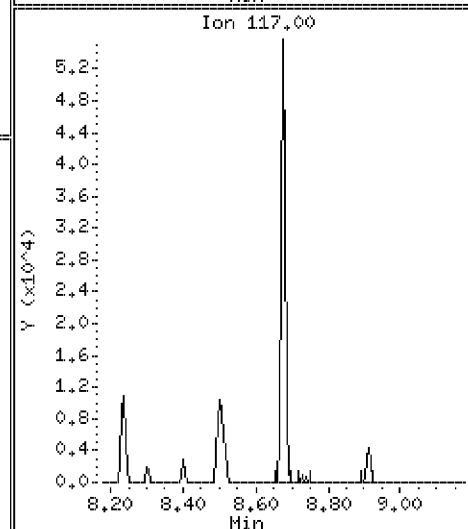
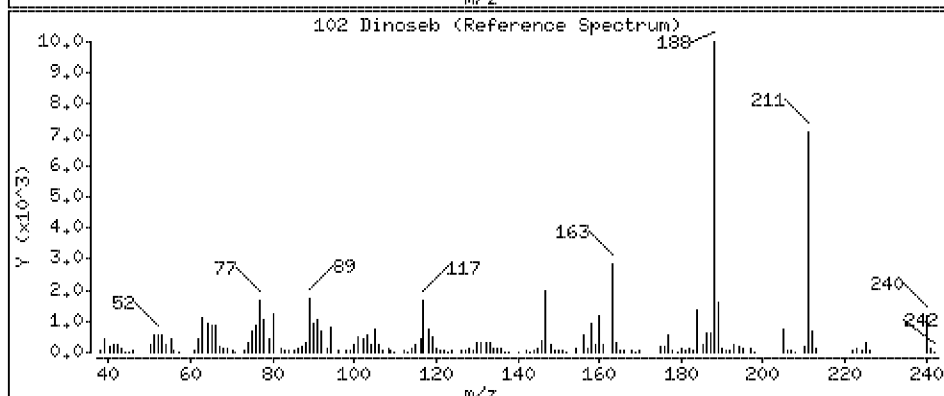
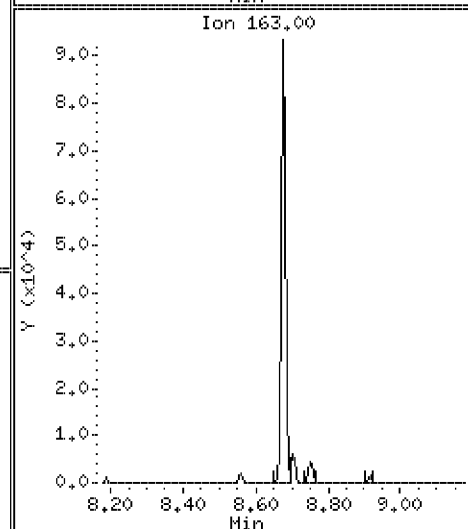
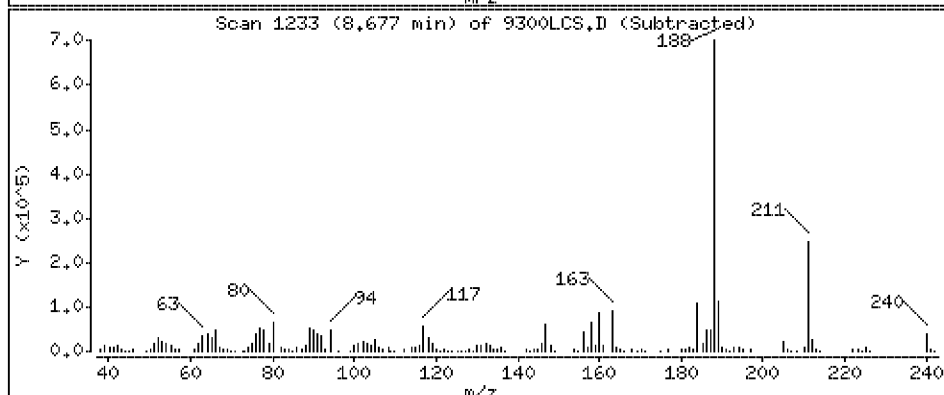
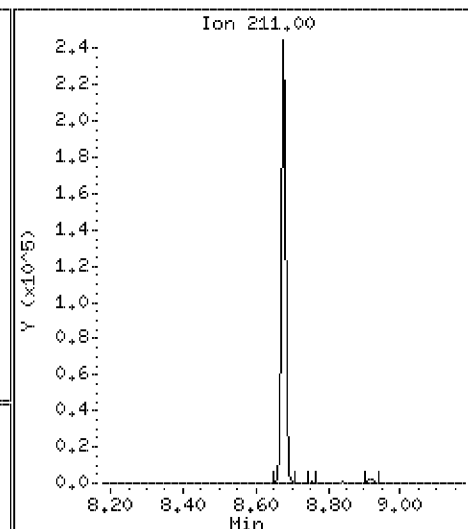
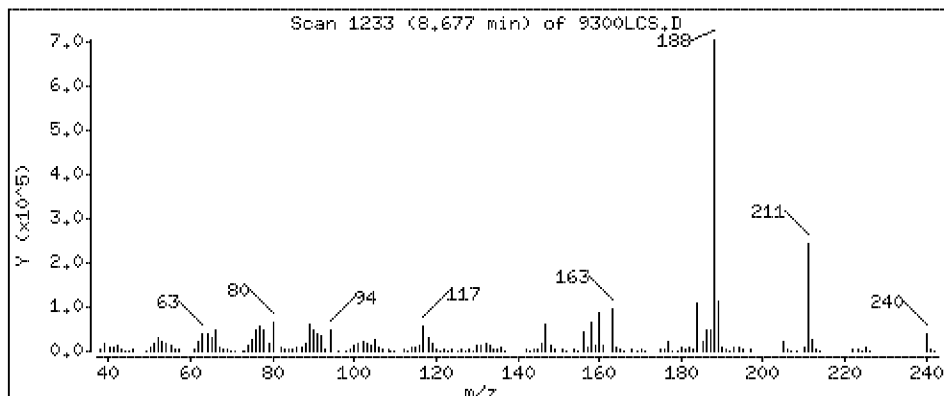
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

102 Dinoseb

Concentration: 1770 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

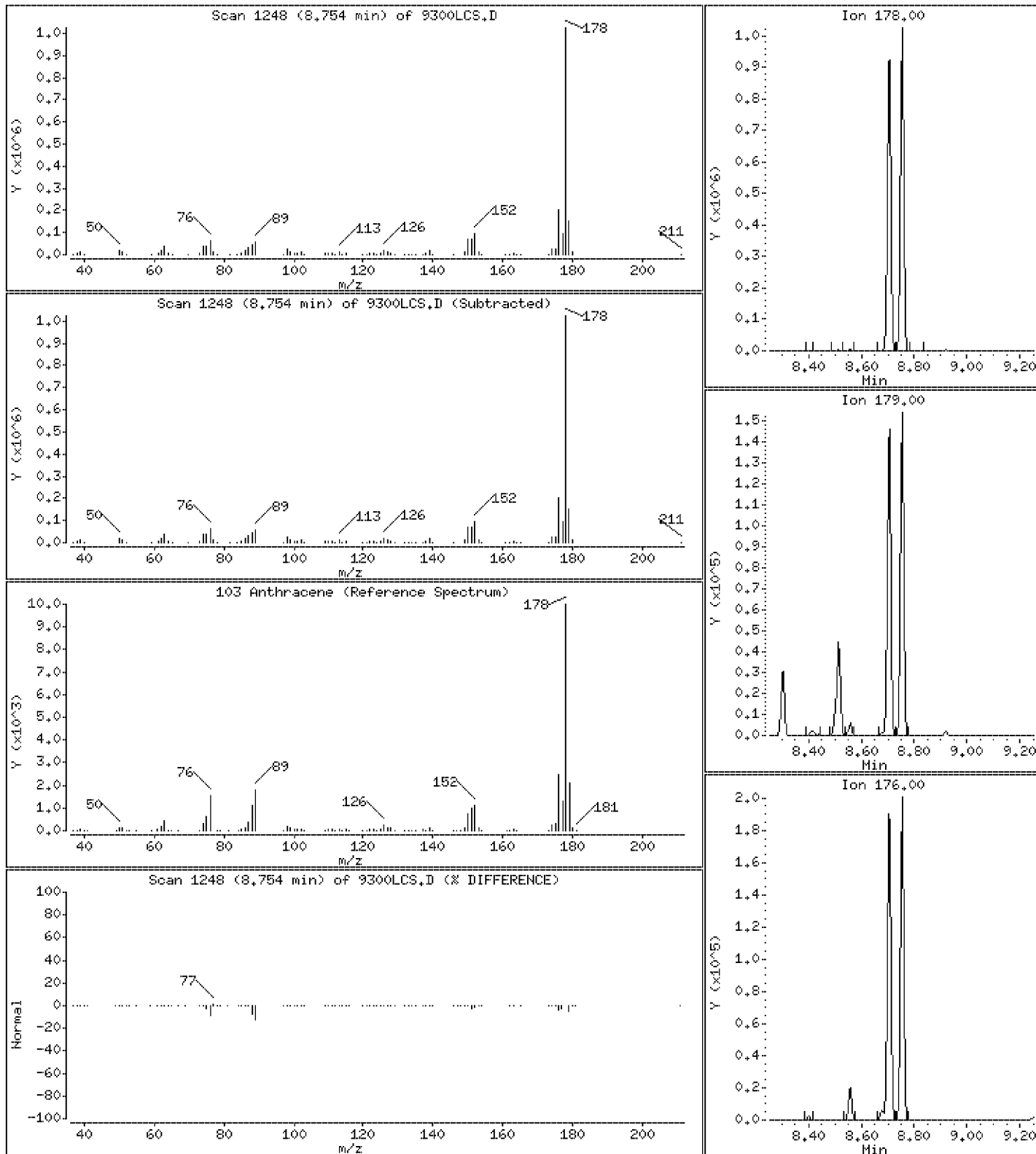
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

103 Anthracene

Concentration: 1680 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

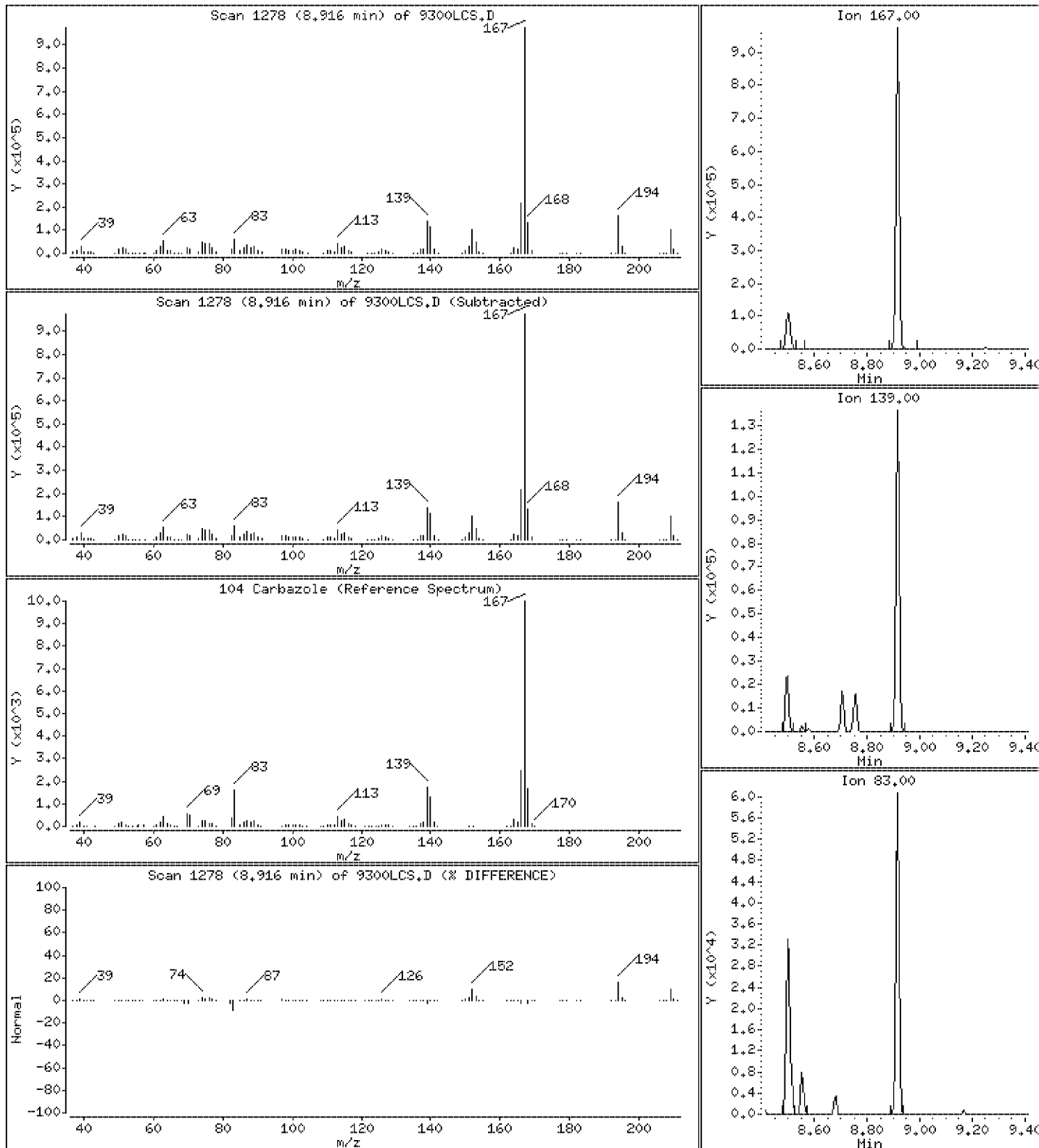
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

104 Carbazole

Concentration: 1910 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

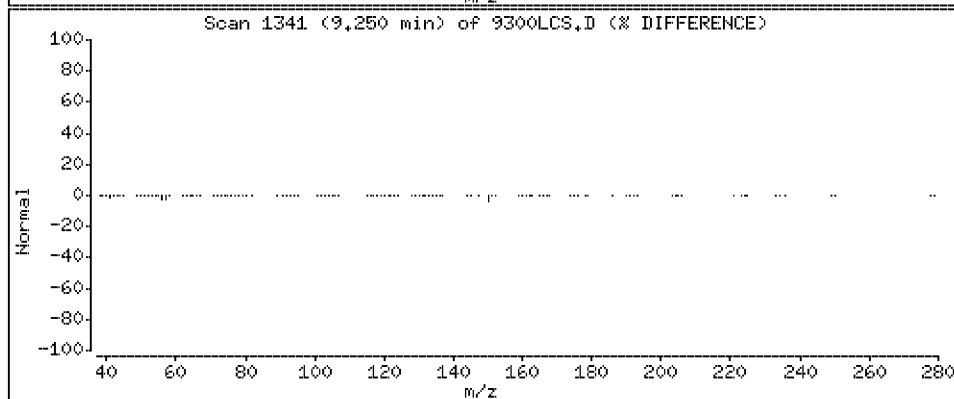
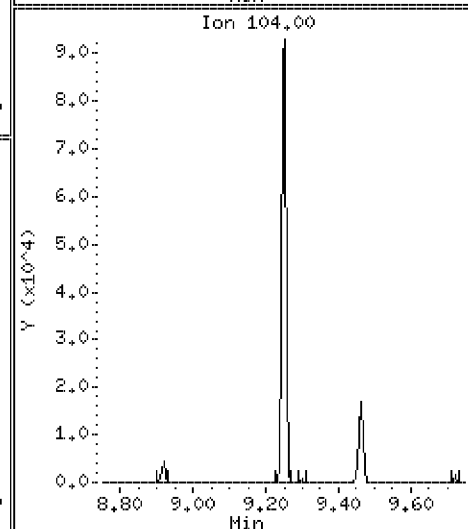
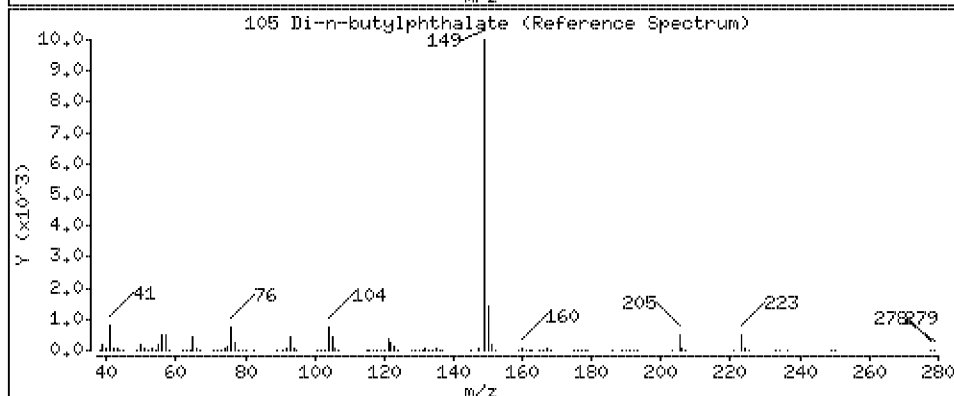
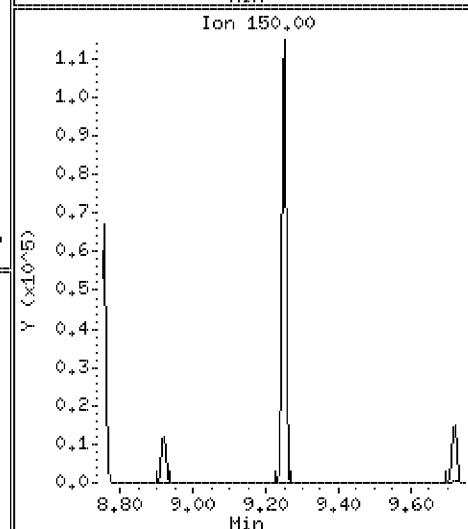
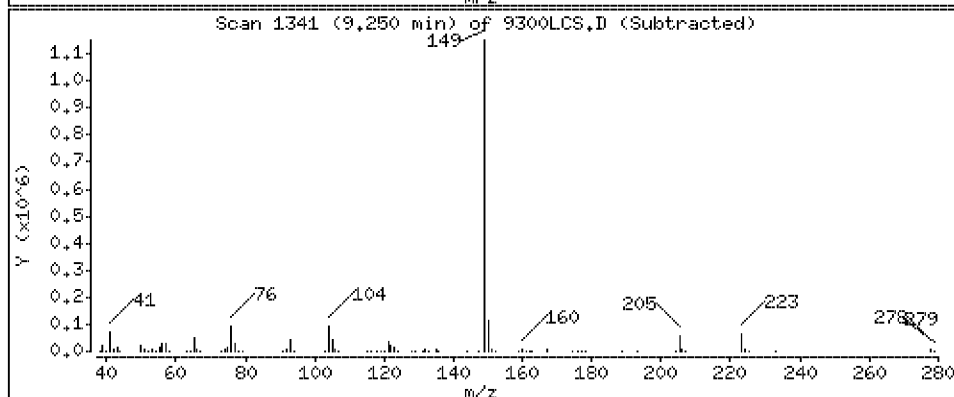
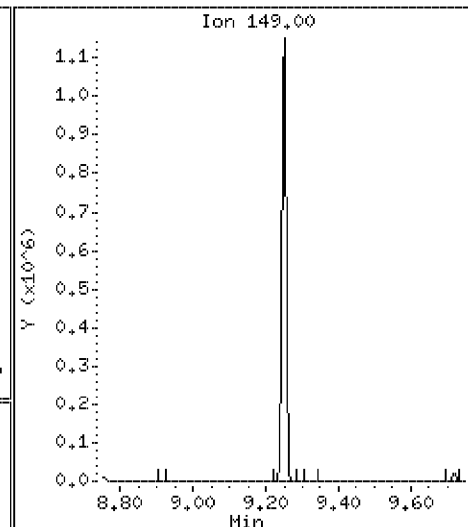
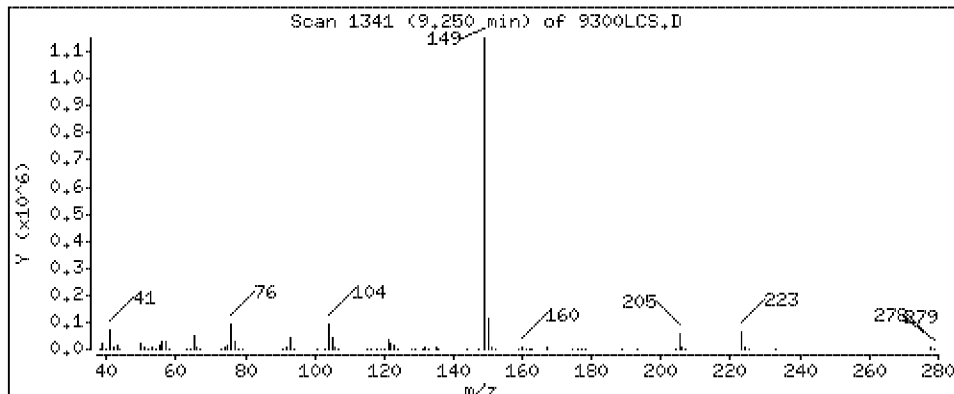
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

105 Di-n-butylphthalate

Concentration: 1740 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

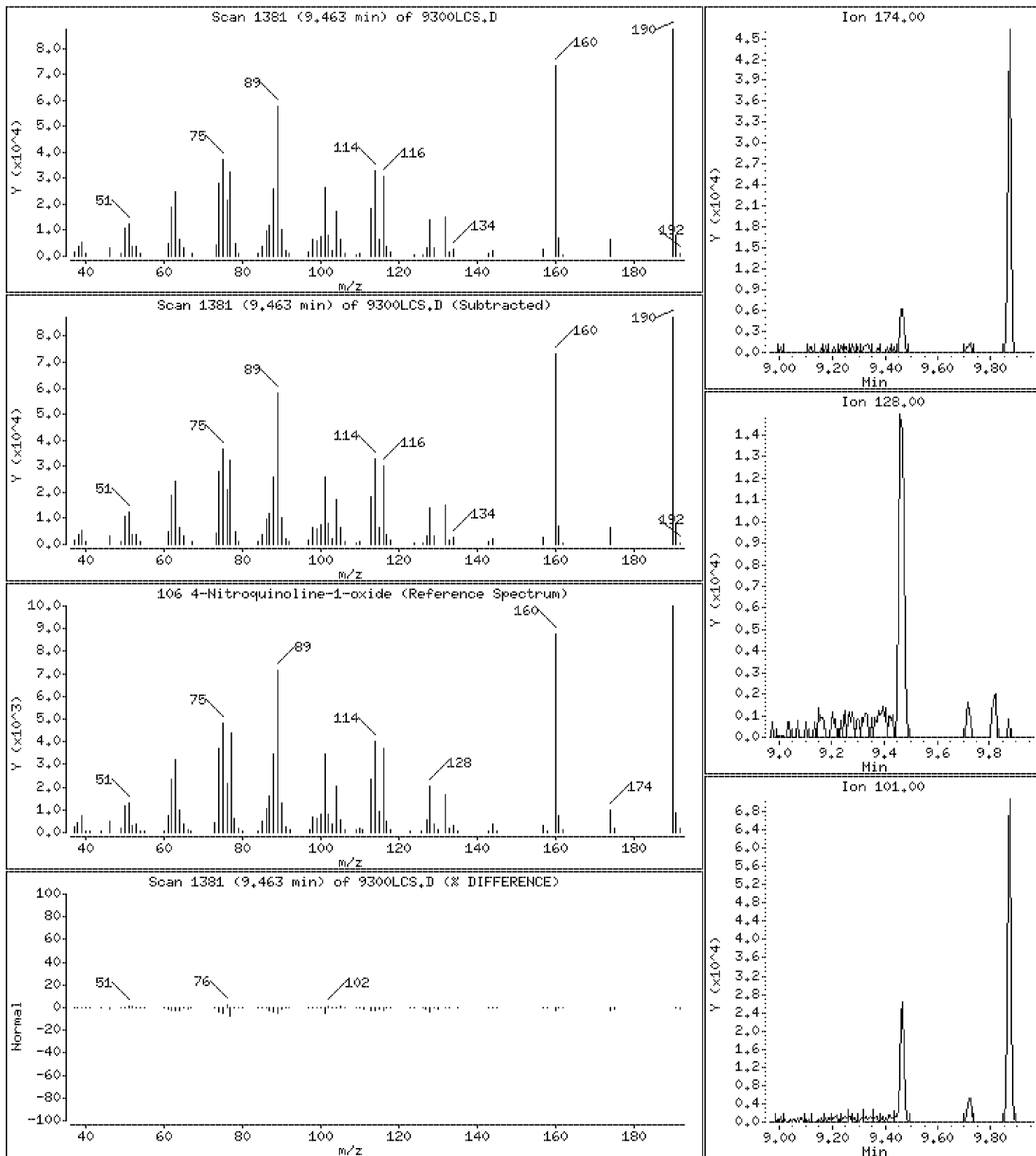
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

106 4-Nitroquinoline-1-oxide

Concentration: 1240 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

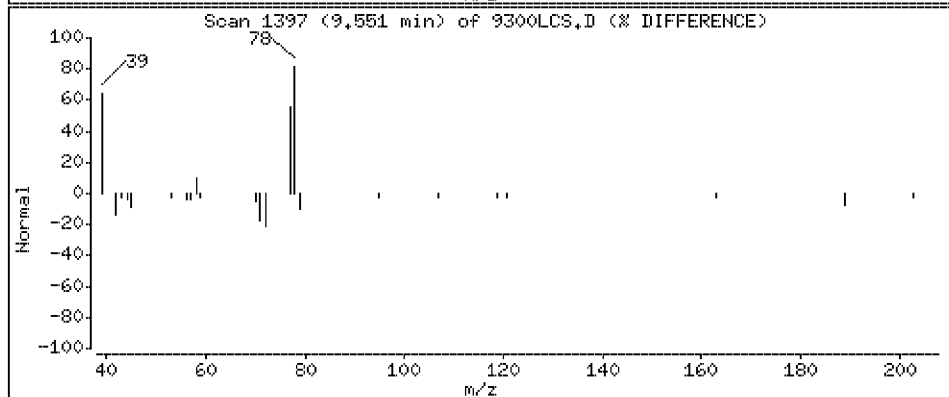
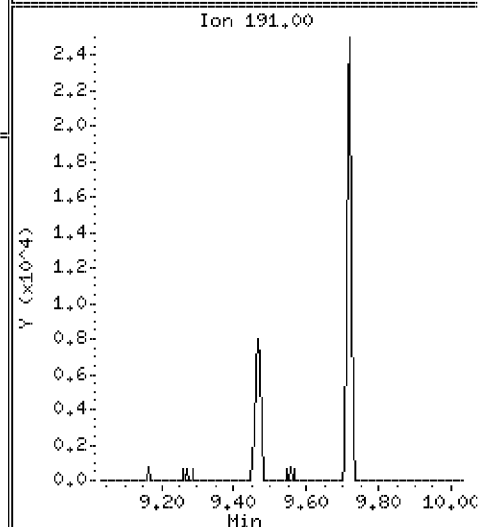
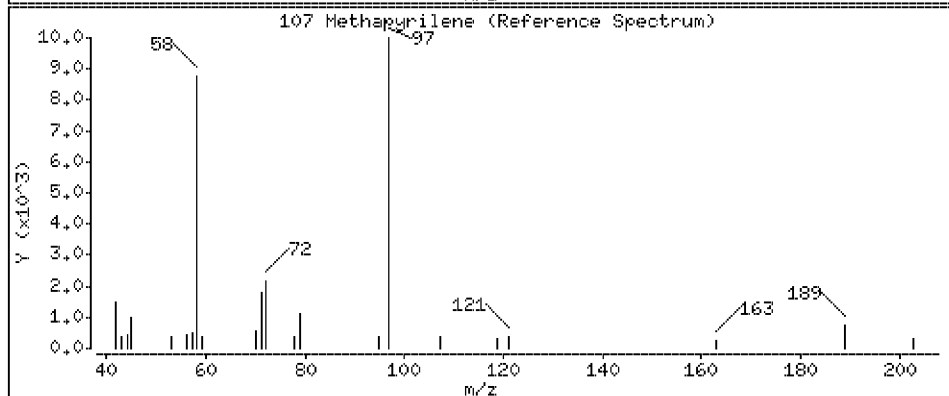
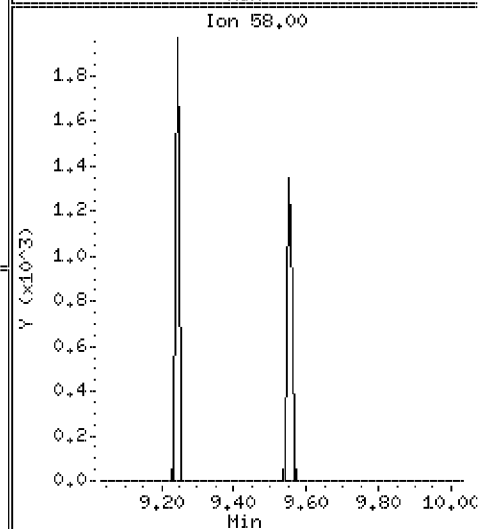
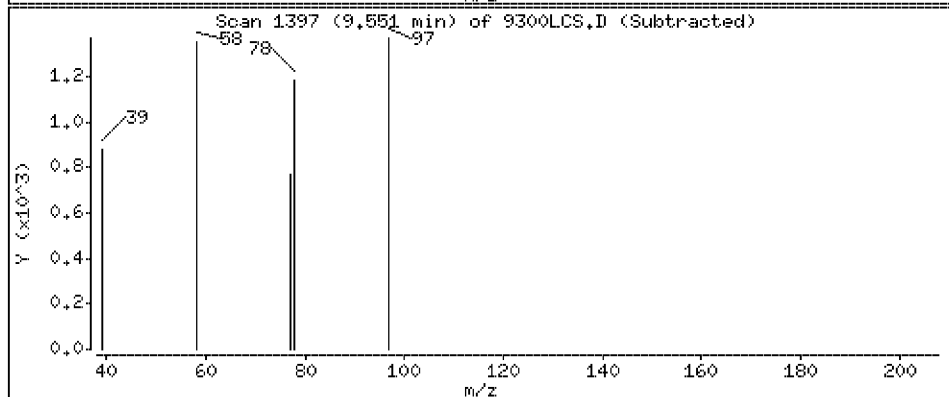
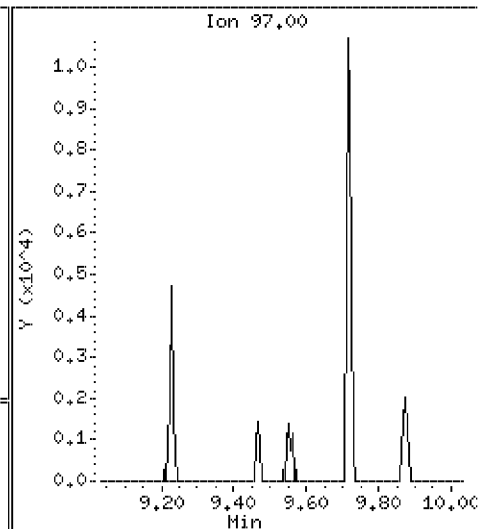
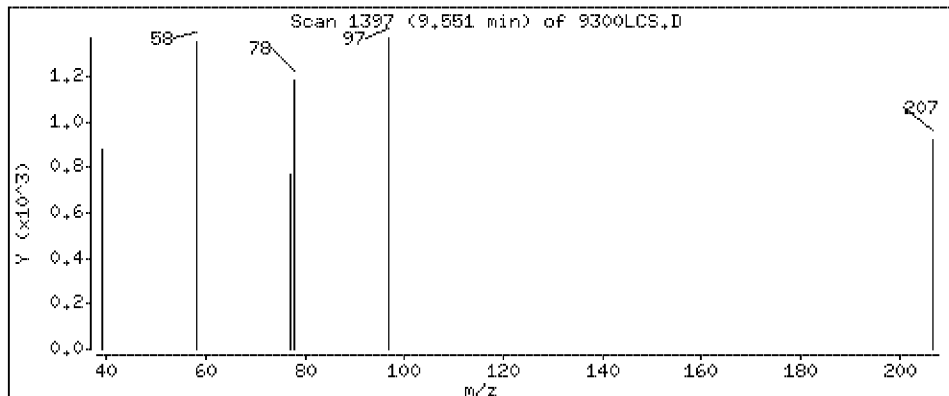
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

107 Methapyrilene

Concentration: 196 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

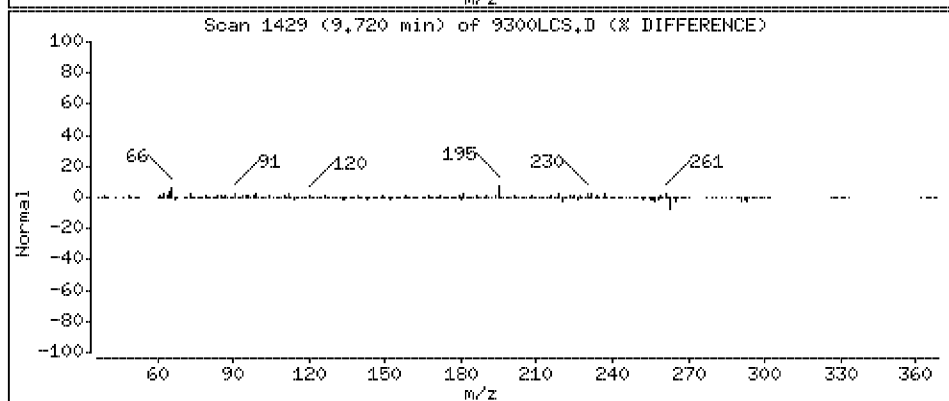
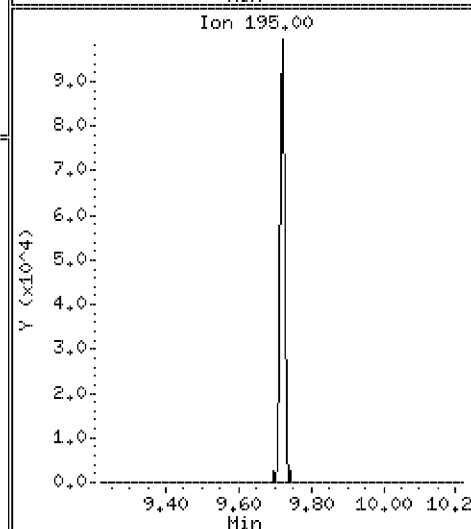
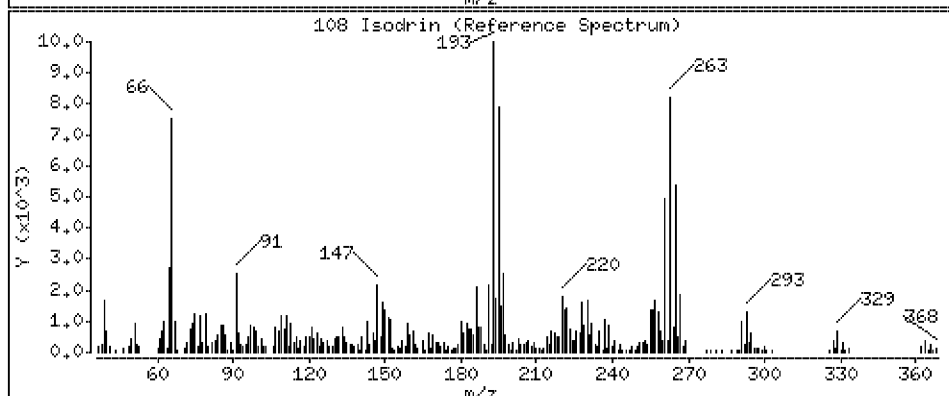
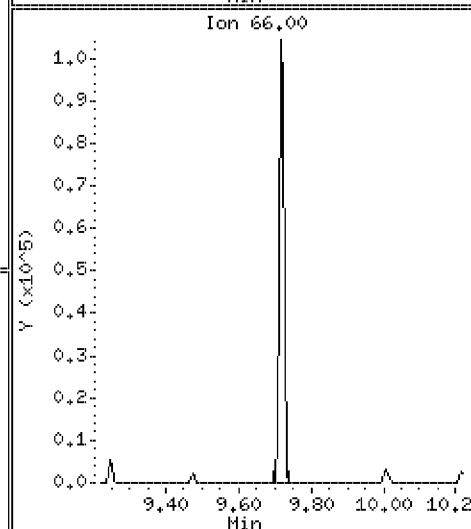
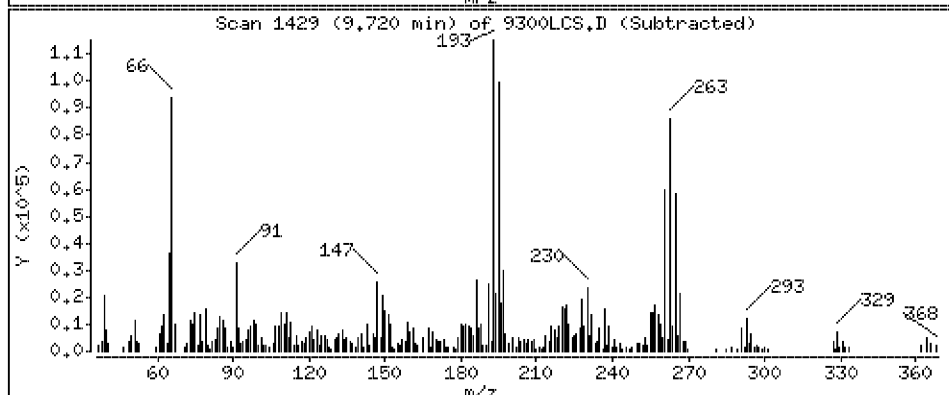
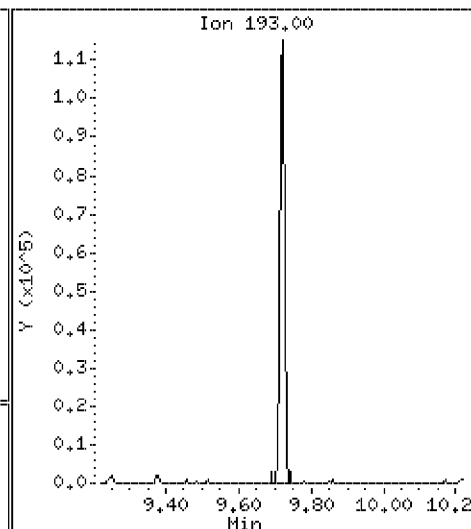
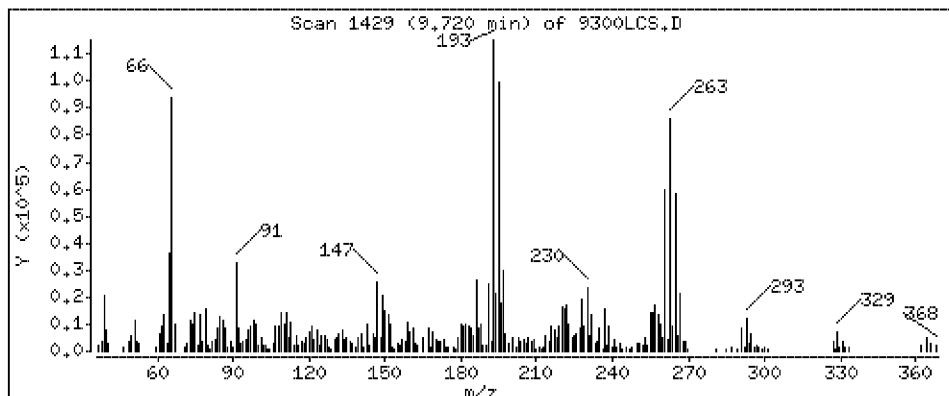
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

108 Isodrin

Concentration: 1670 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

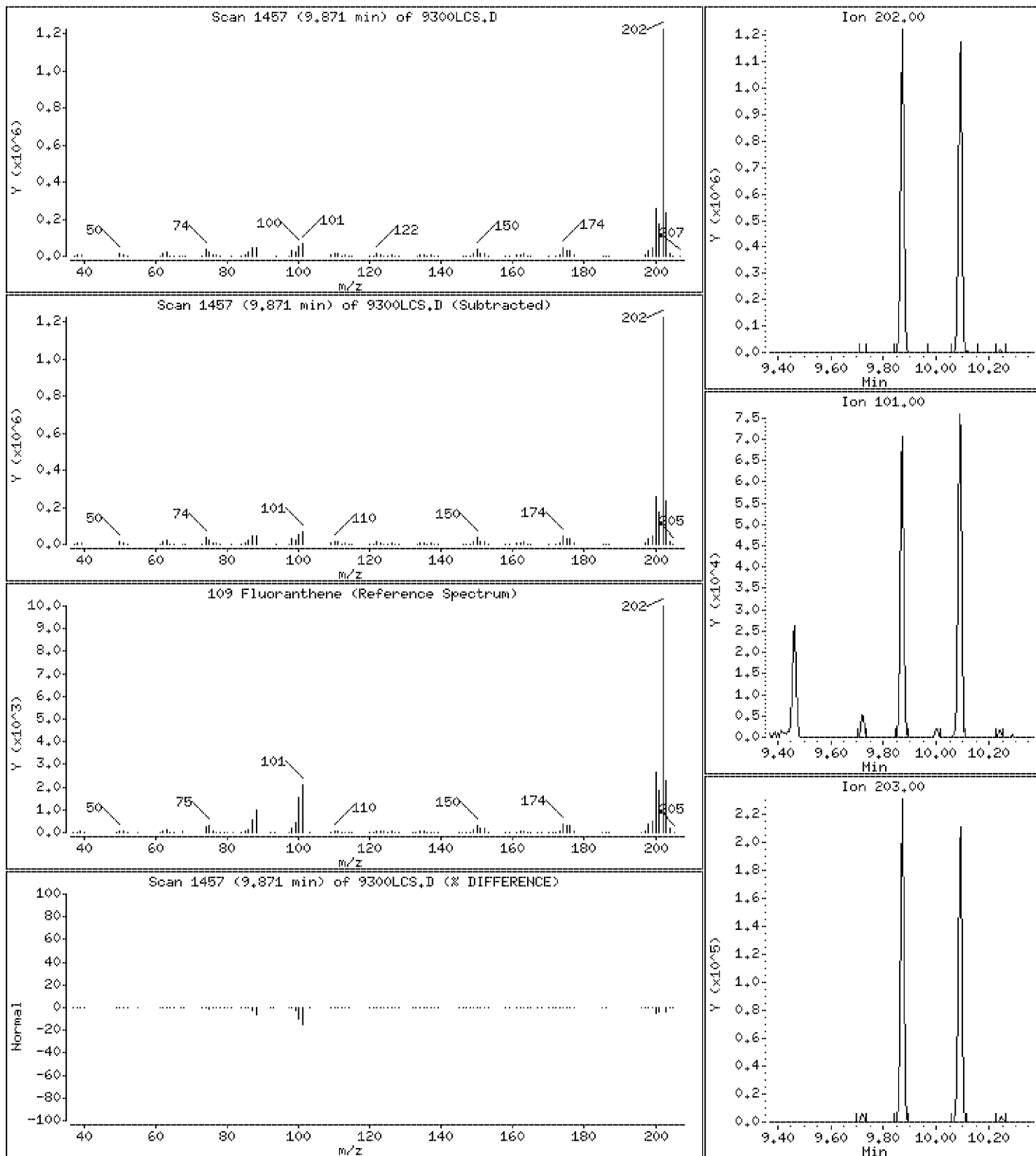
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

109 Fluoranthene

Concentration: 1780 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

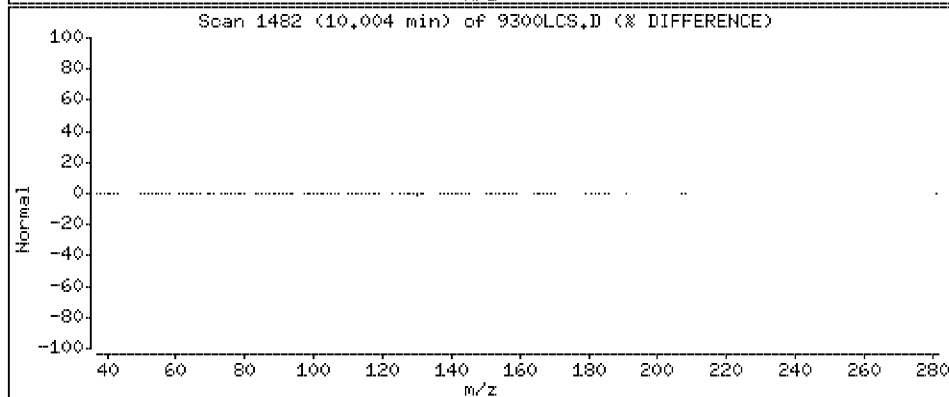
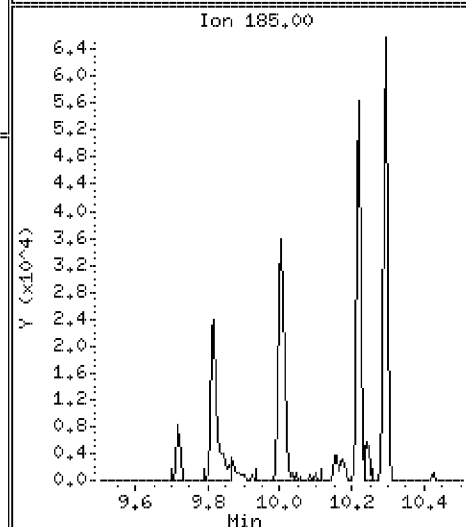
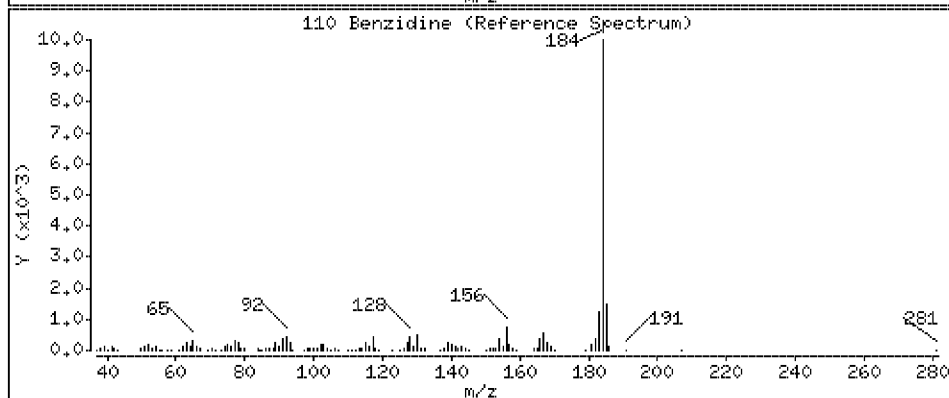
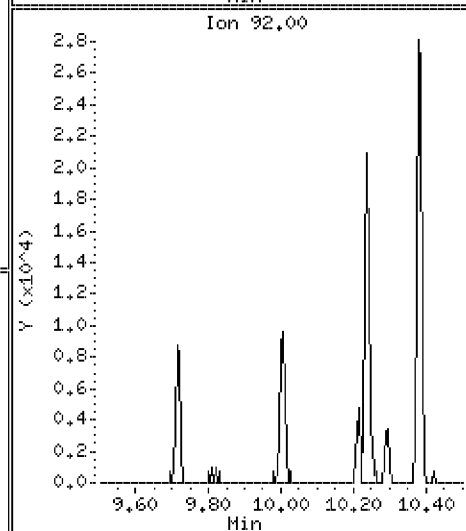
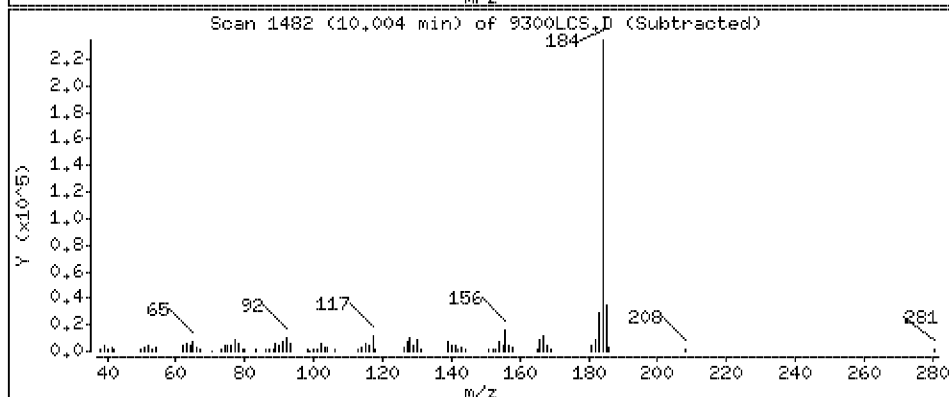
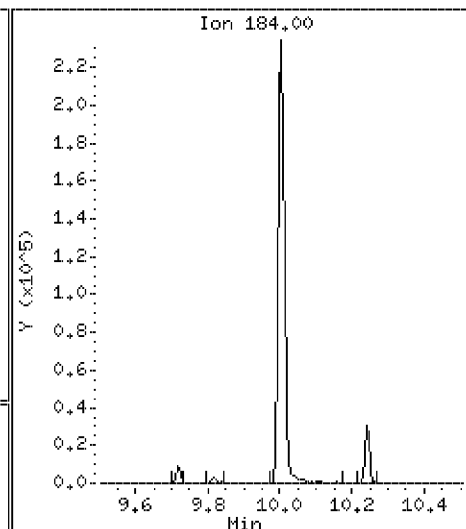
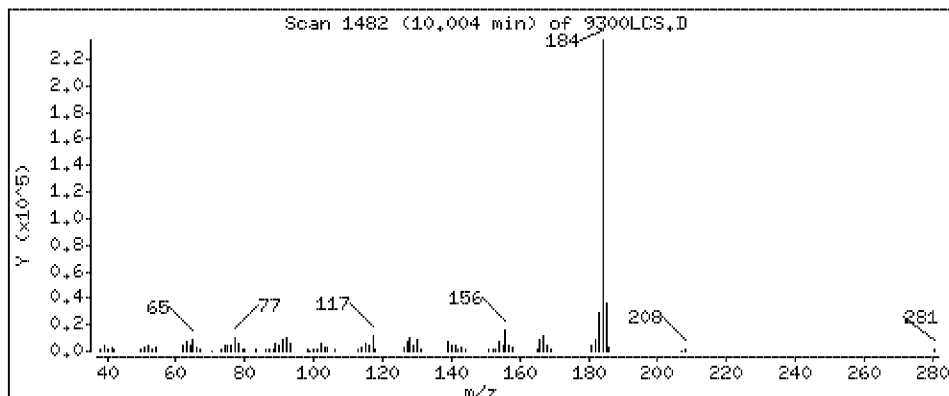
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

110 Benzidine

Concentration: 427 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

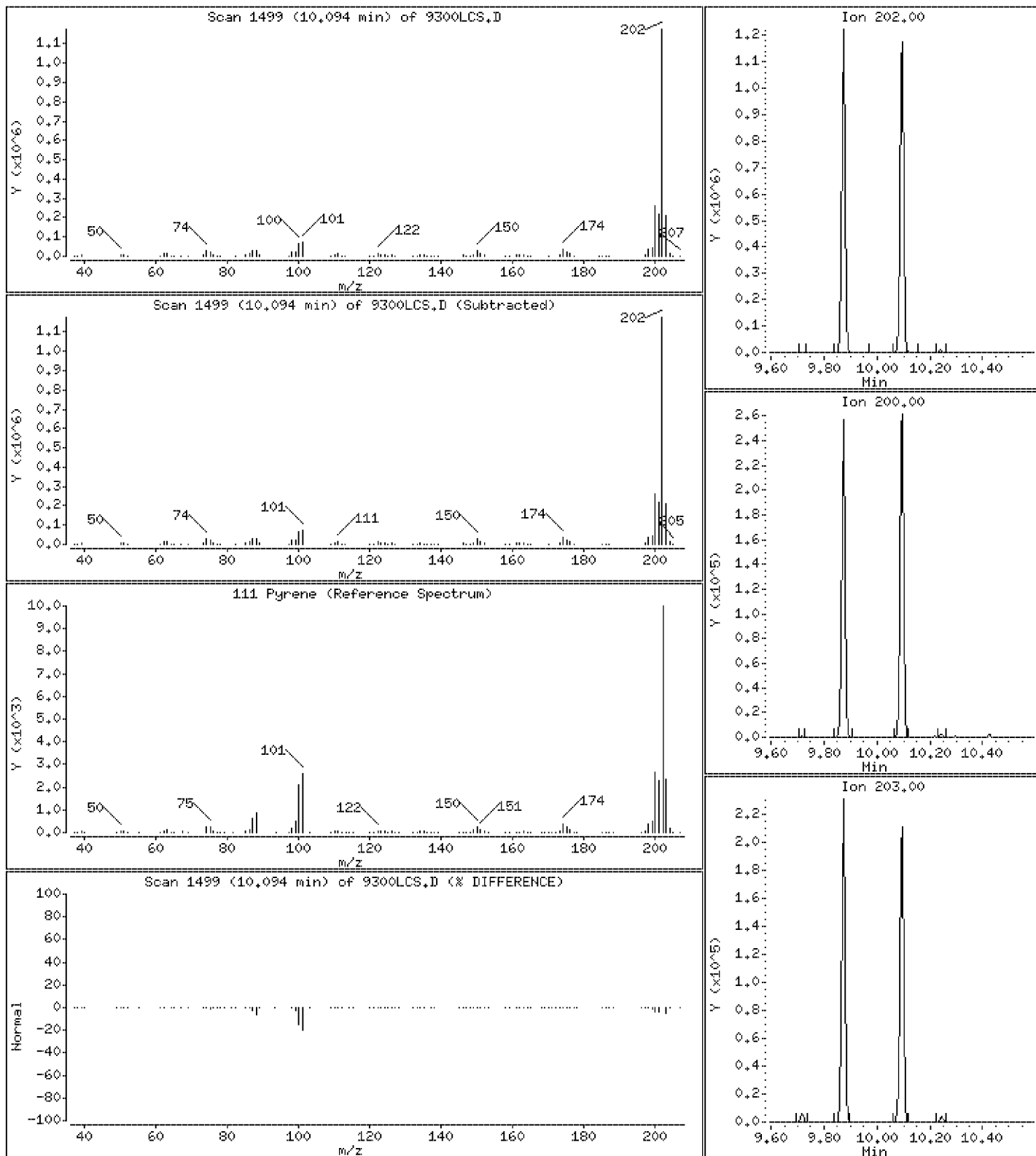
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

111 Pyrene

Concentration: 1590 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

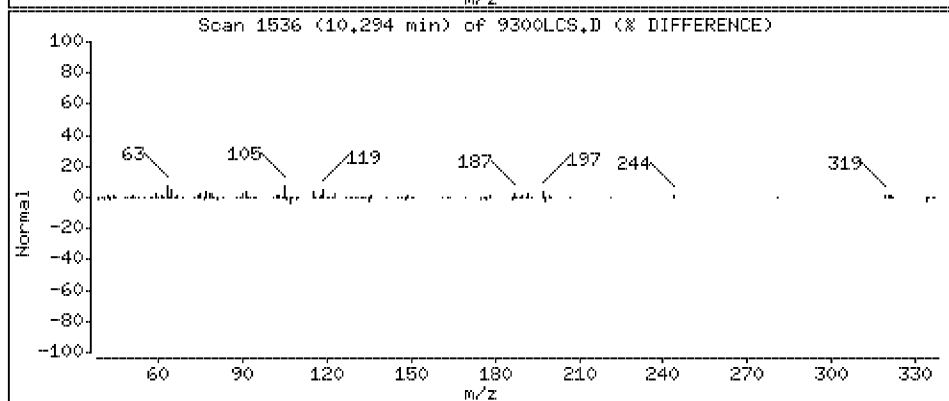
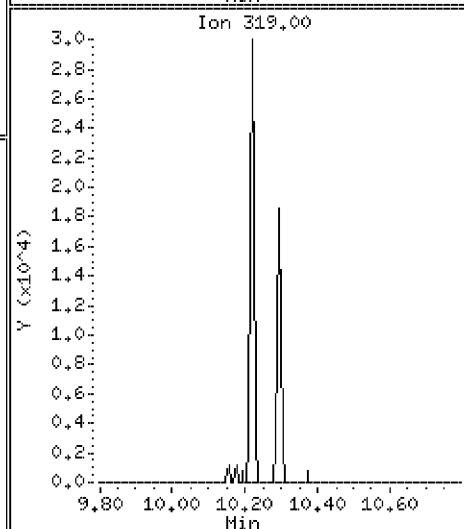
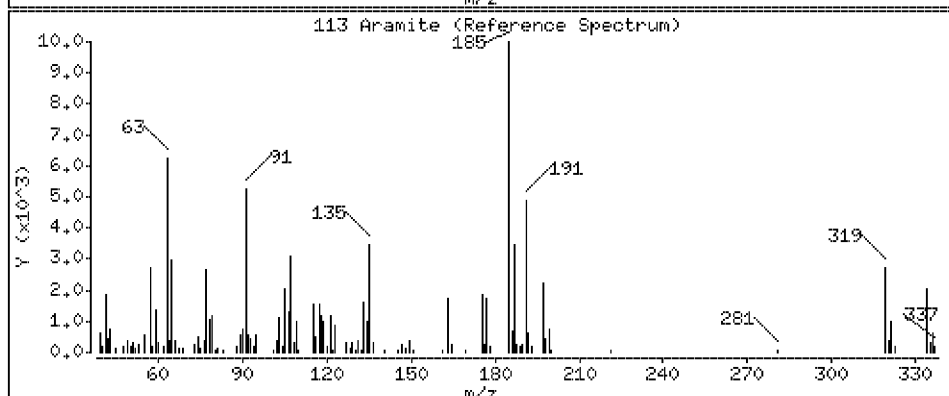
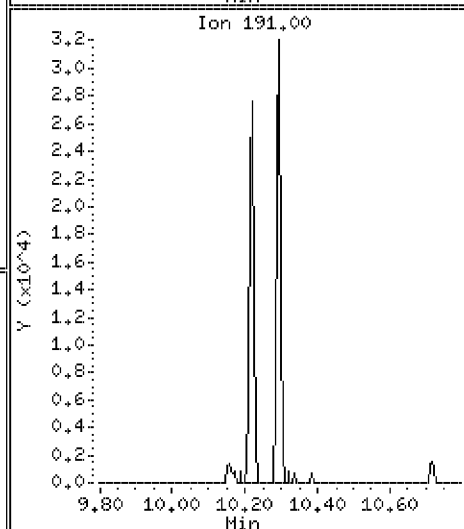
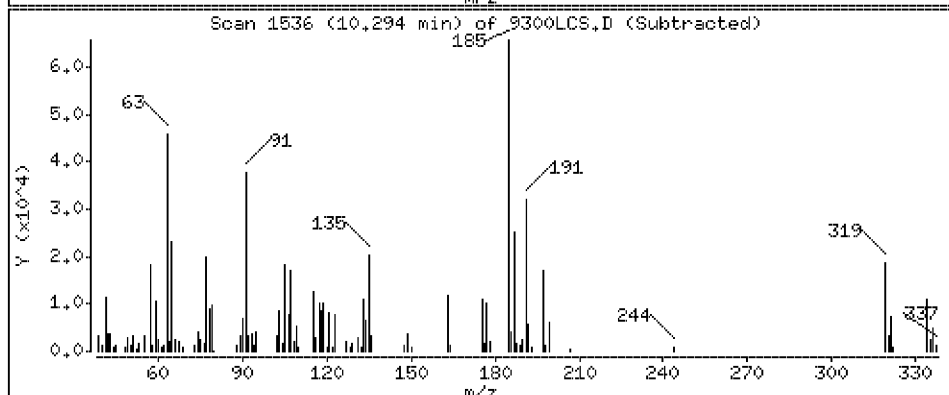
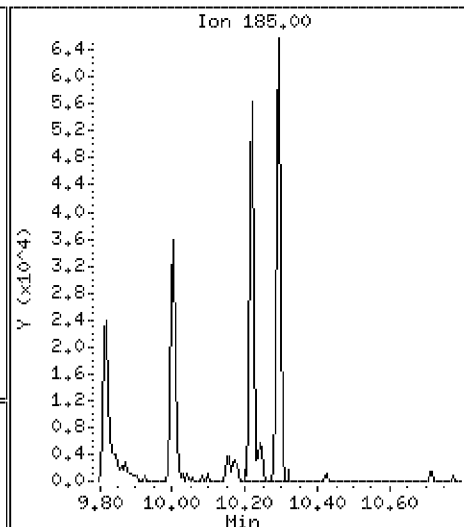
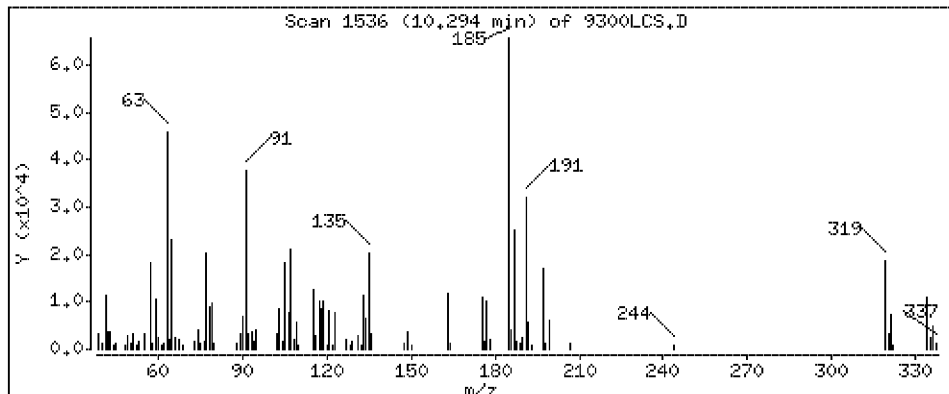
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

113 Aramite

Concentration: 1220 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

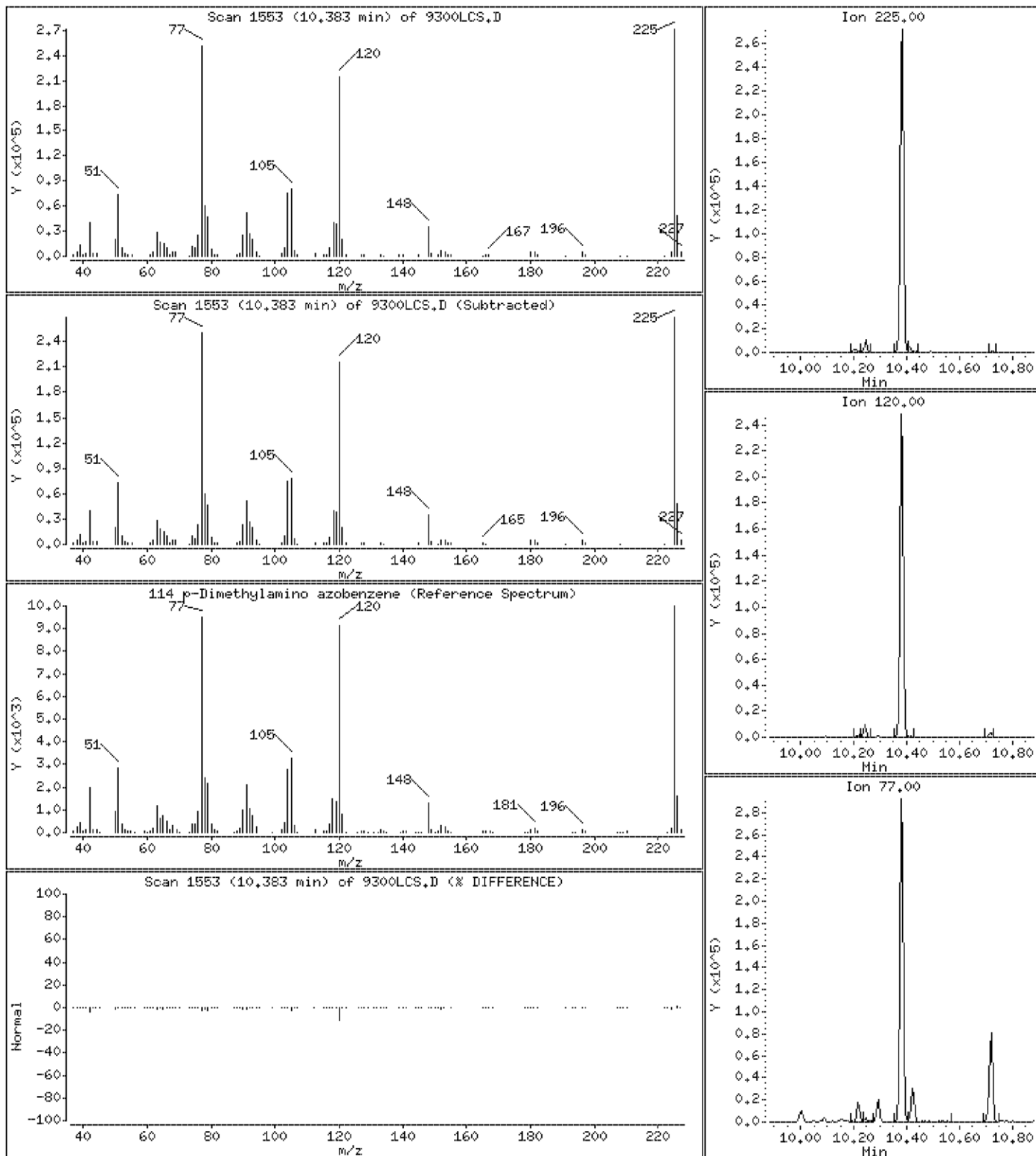
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

114 p-Dimethylamino azobenzene

Concentration: 1170 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

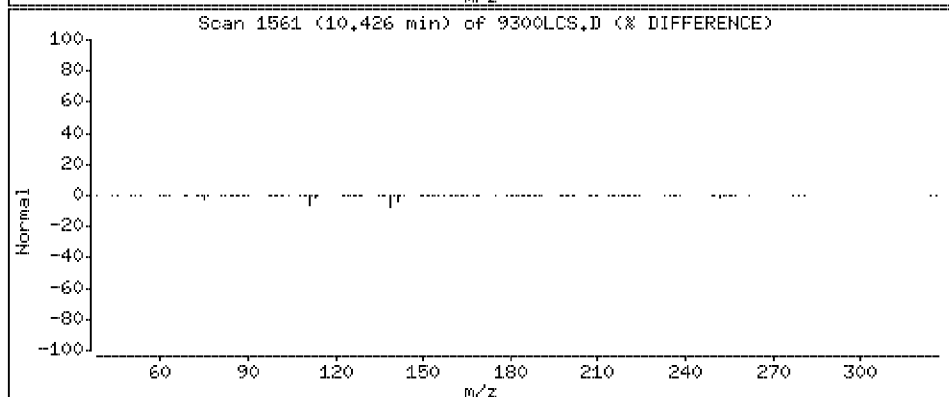
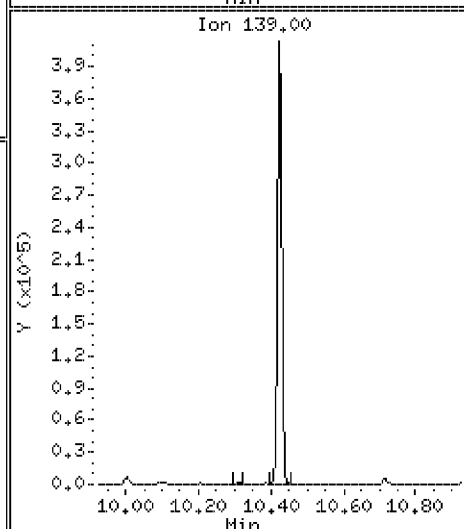
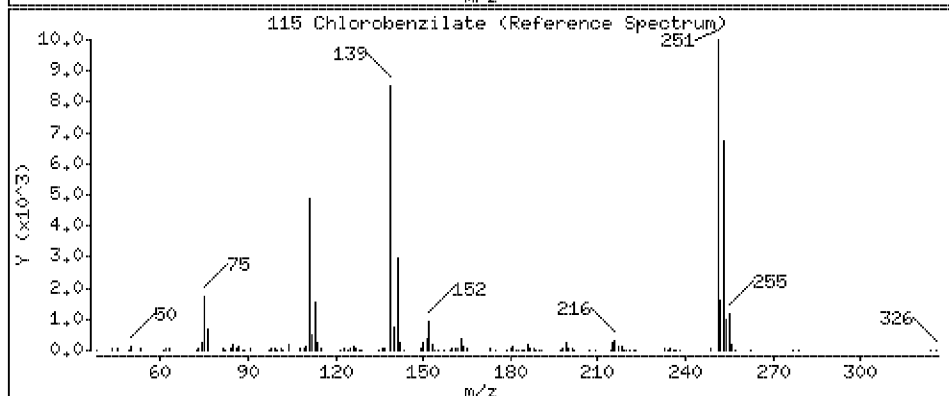
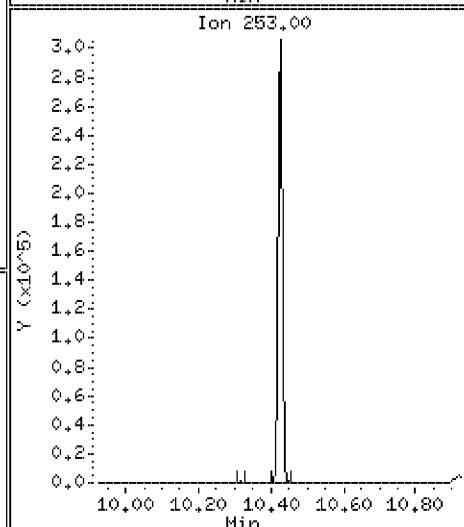
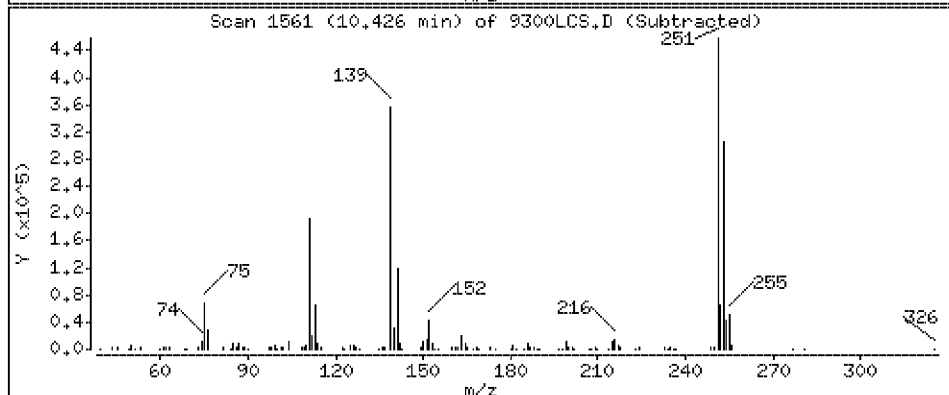
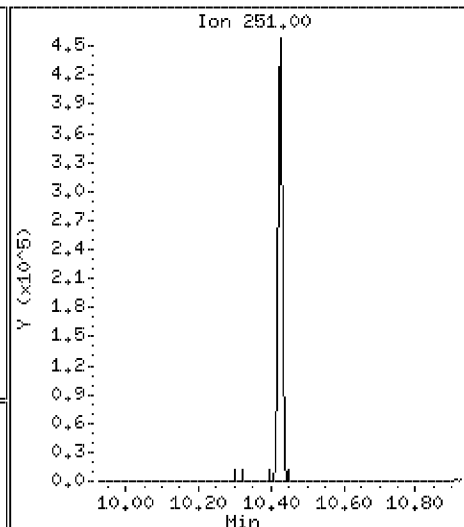
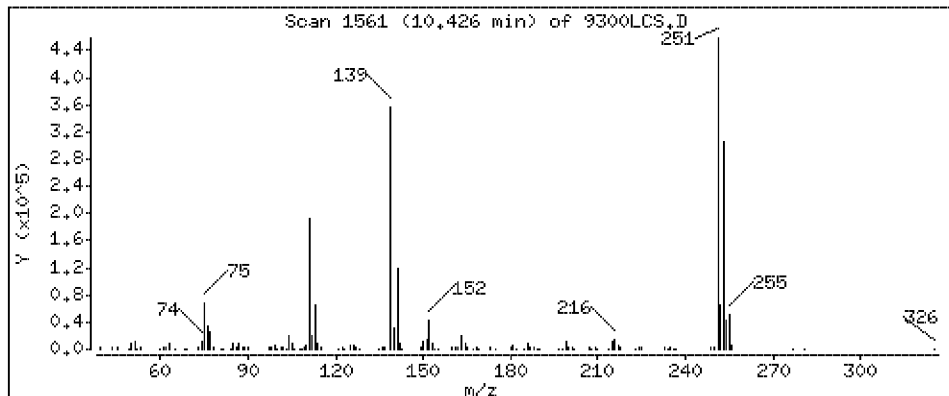
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

115 Chlorobenzilate

Concentration: 1180 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

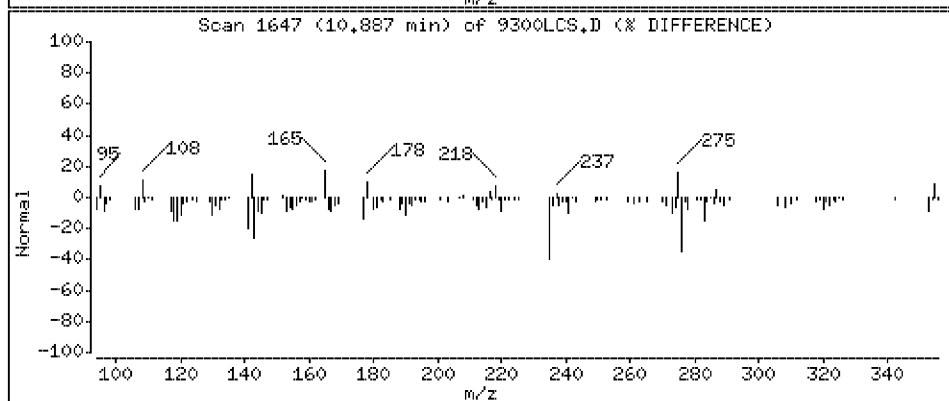
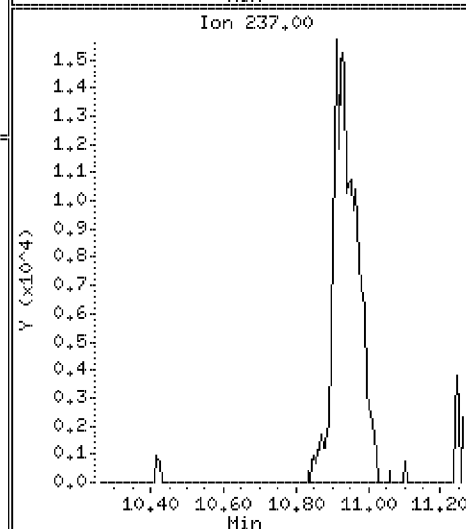
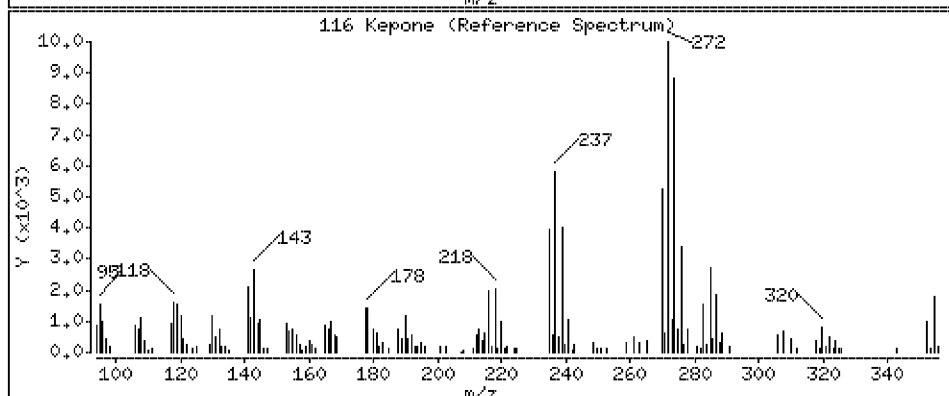
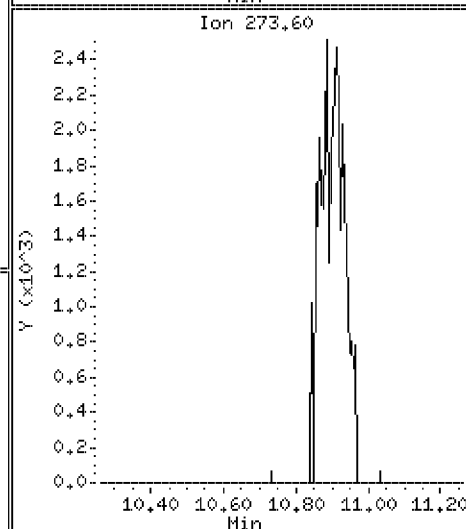
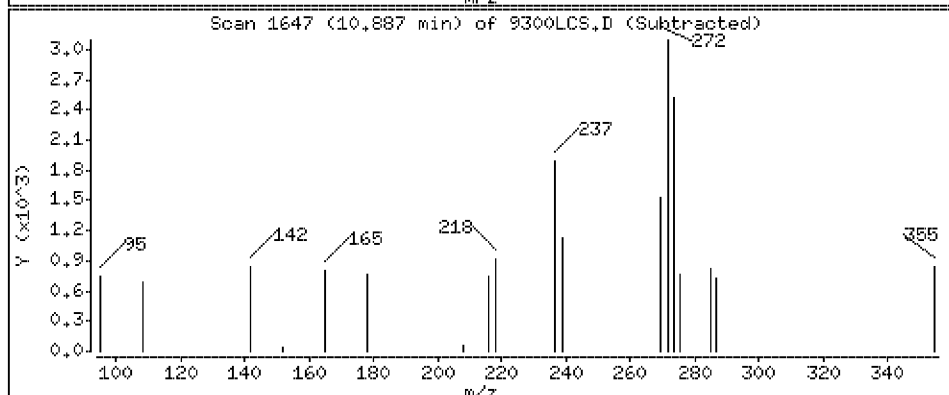
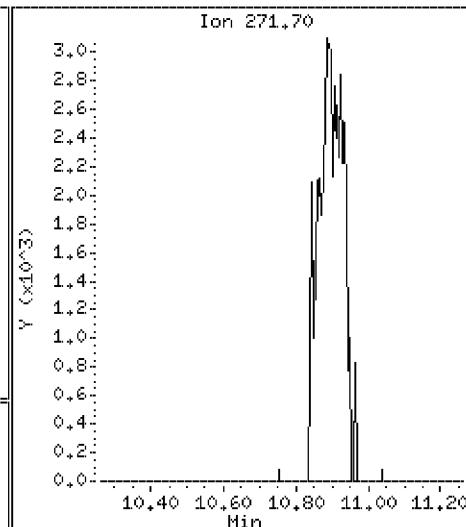
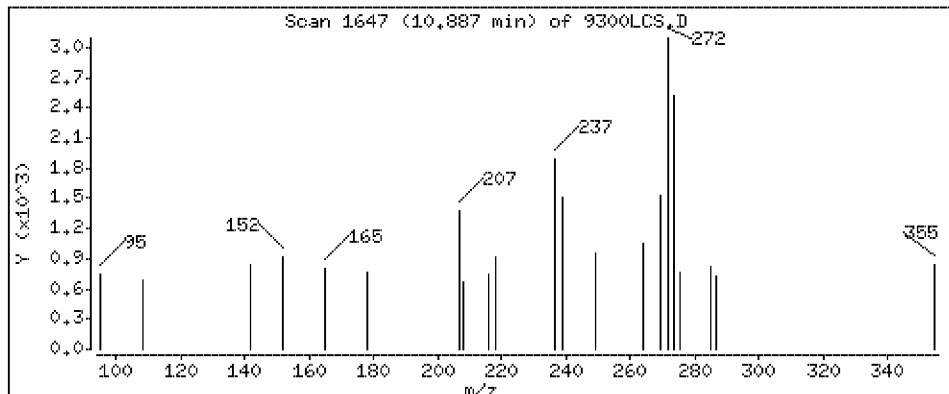
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

116 Kepone

Concentration: 277 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

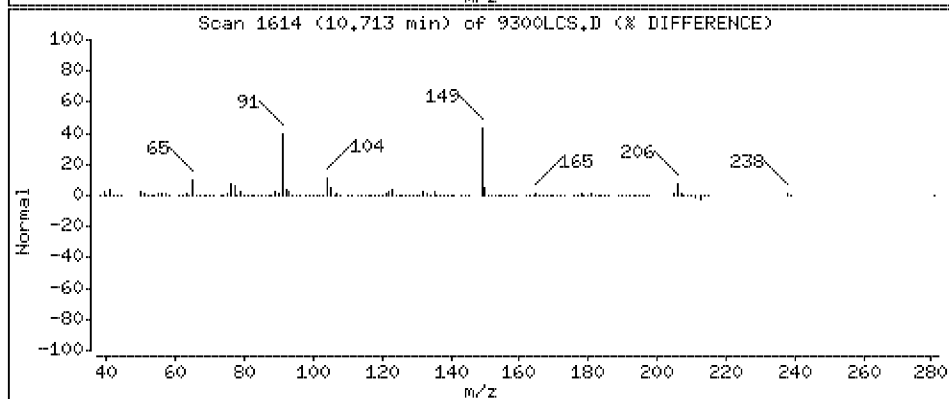
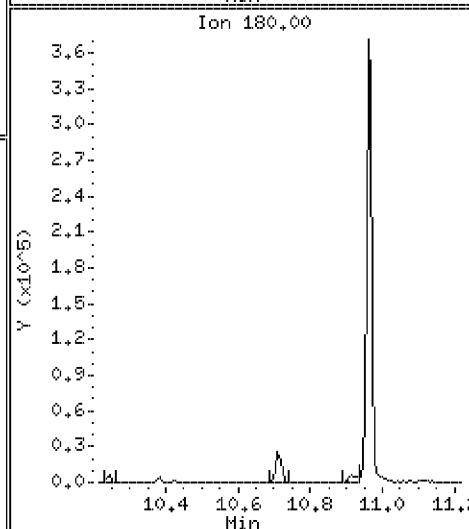
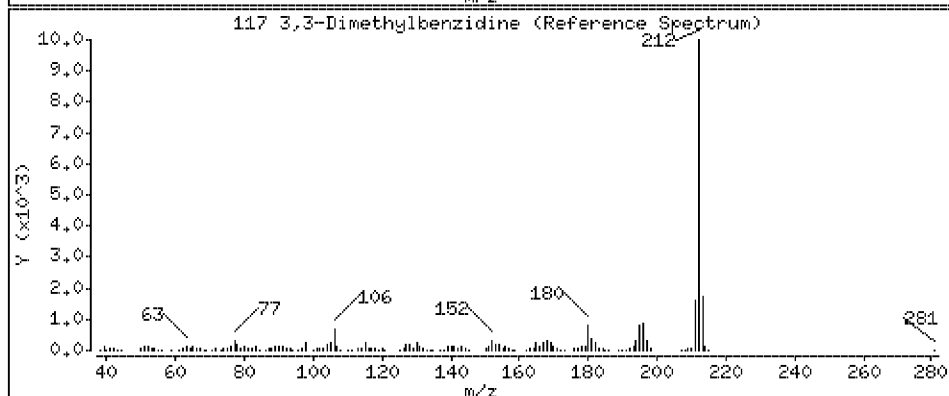
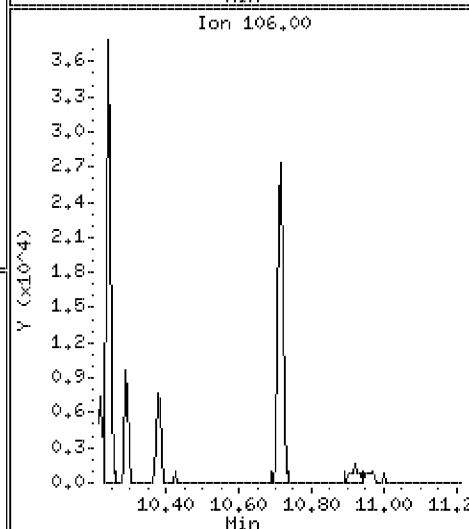
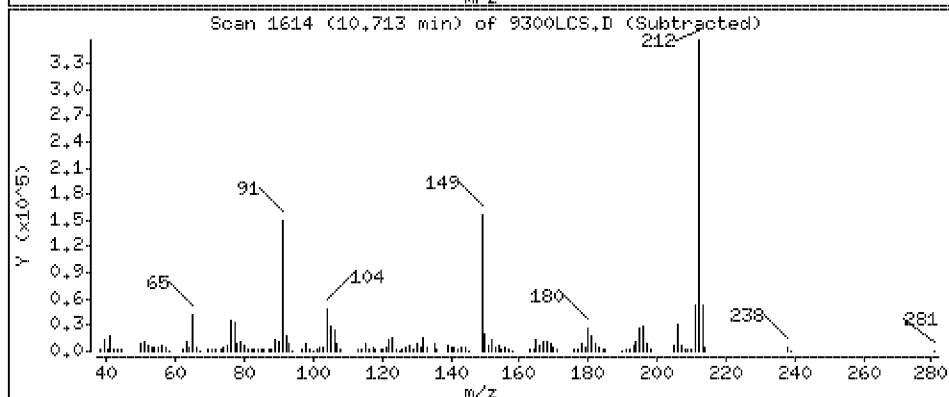
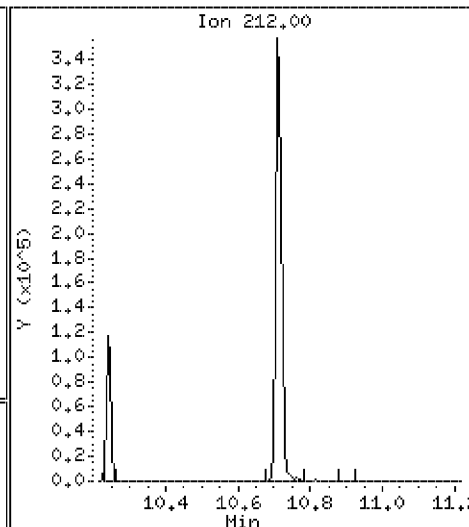
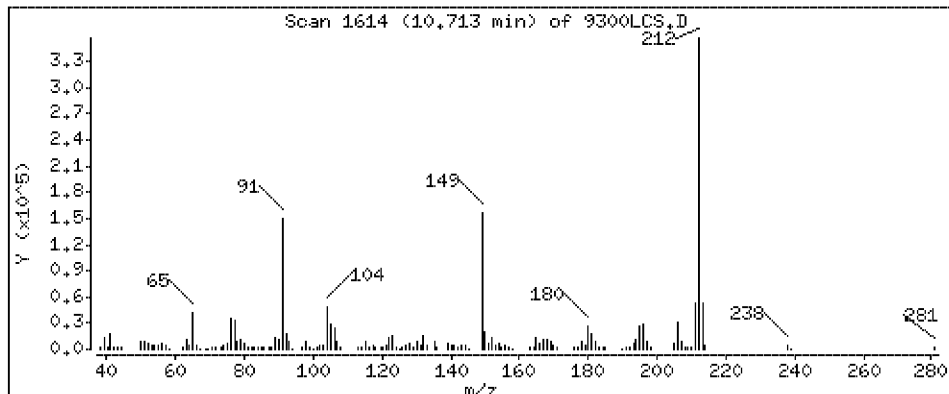
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

117 3,3-Dimethylbenzidine

Concentration: 530 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

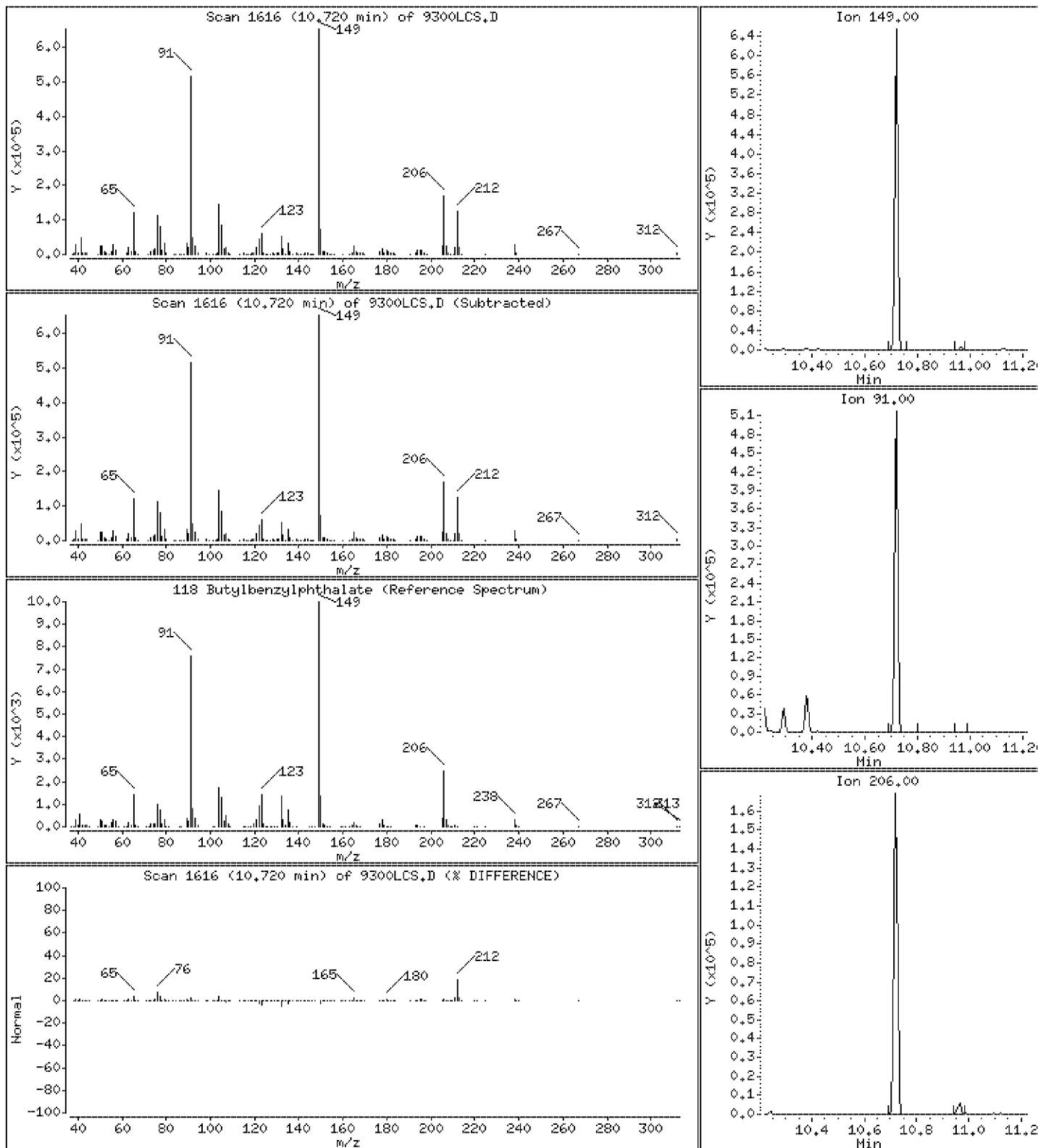
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

118 Butylbenzylphthalate

Concentration: 1700 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

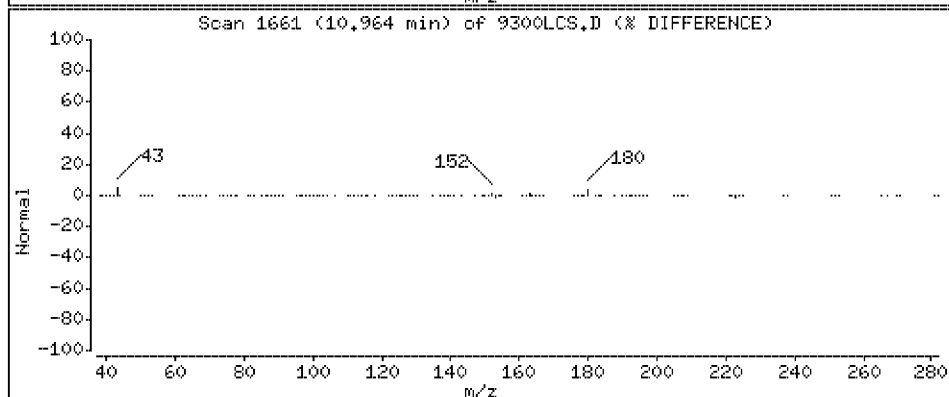
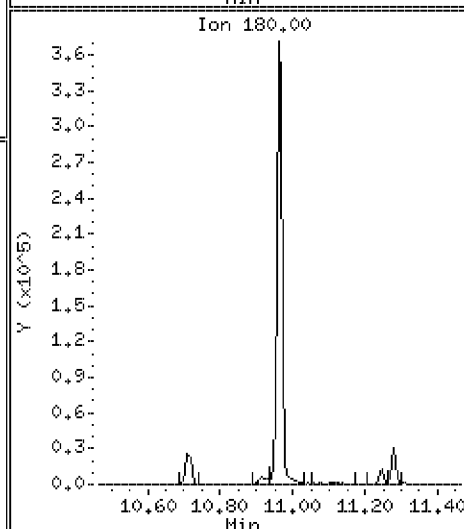
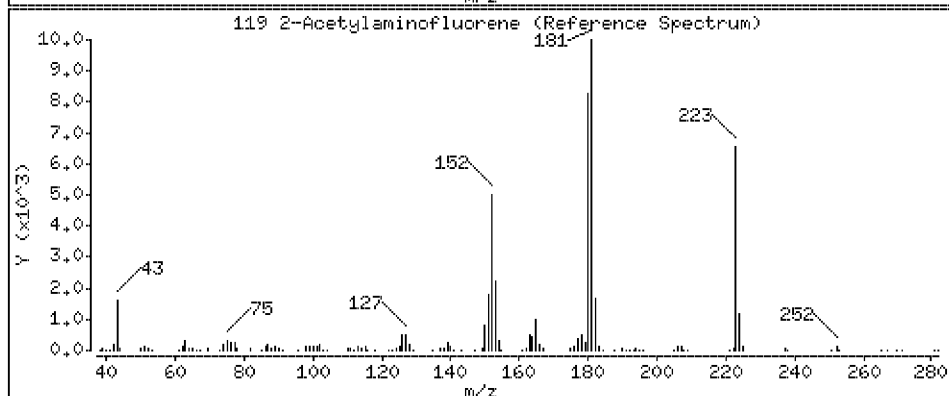
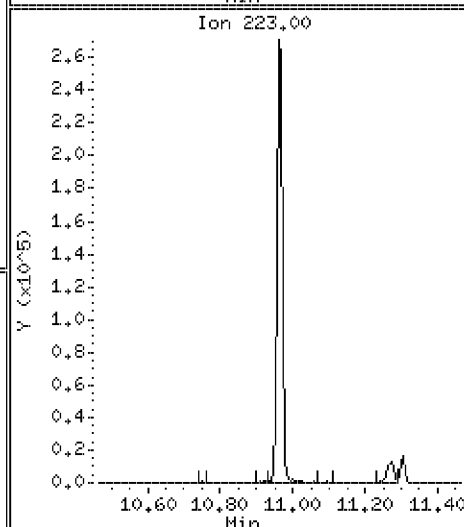
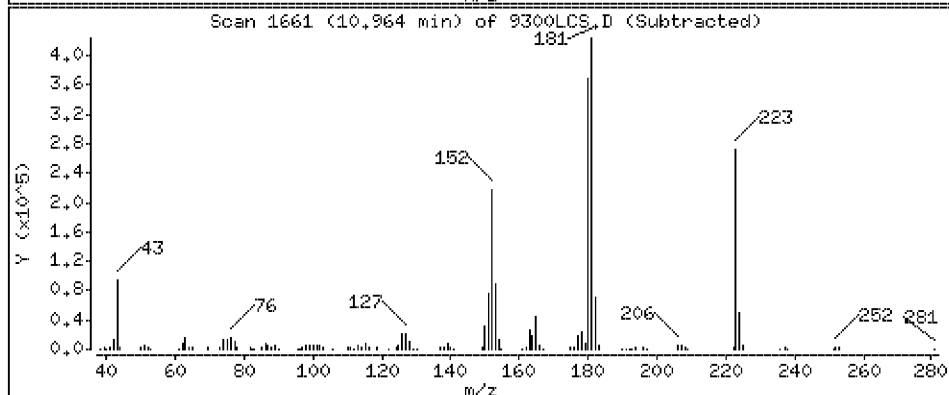
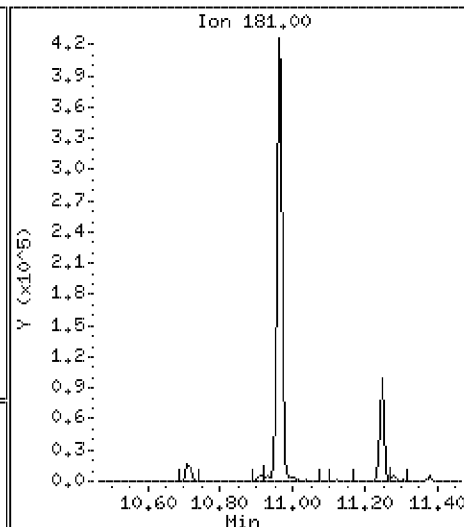
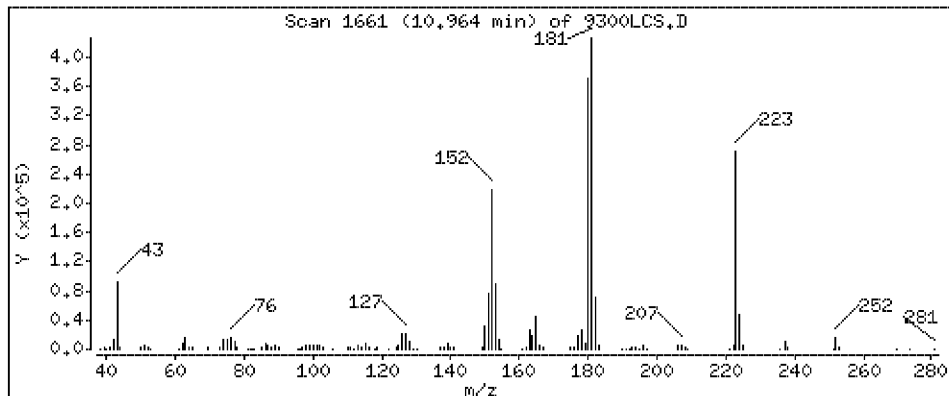
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

119 2-Acetylaminofluorene

Concentration: 1180 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

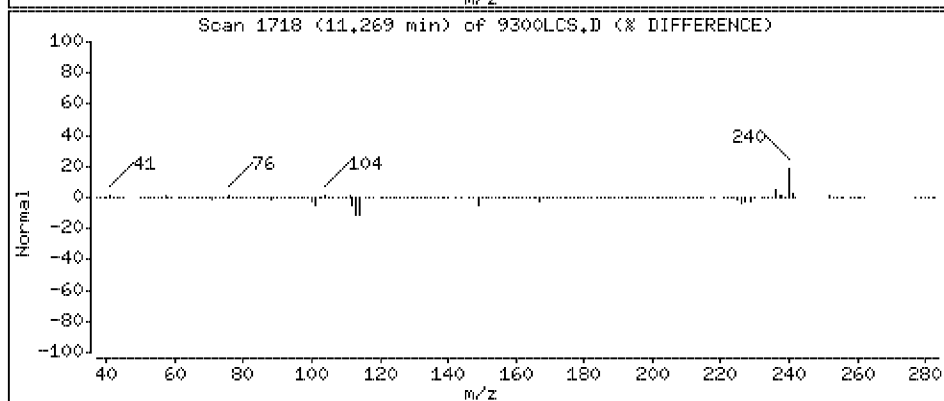
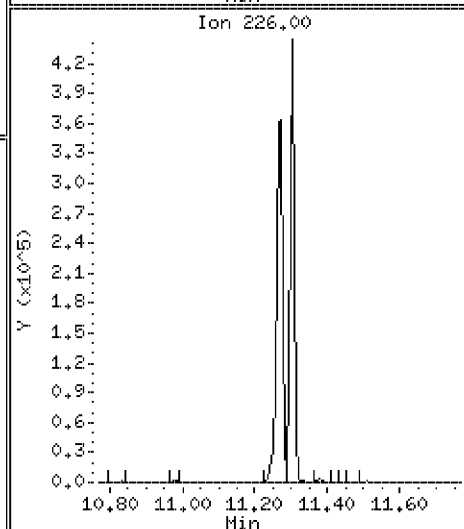
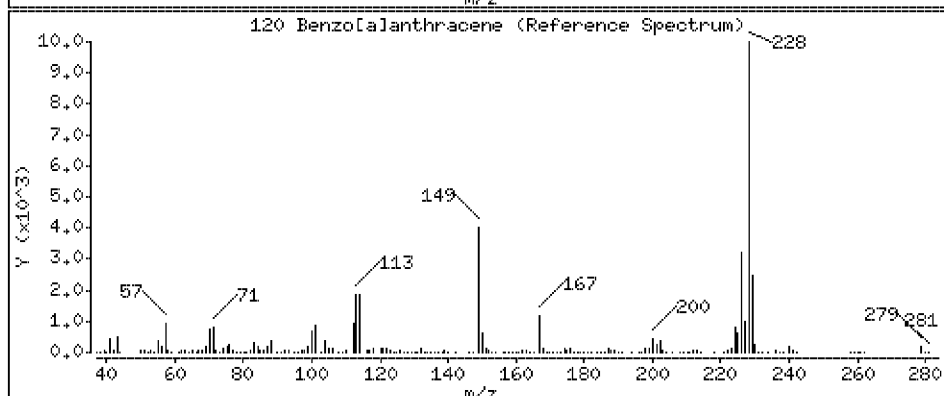
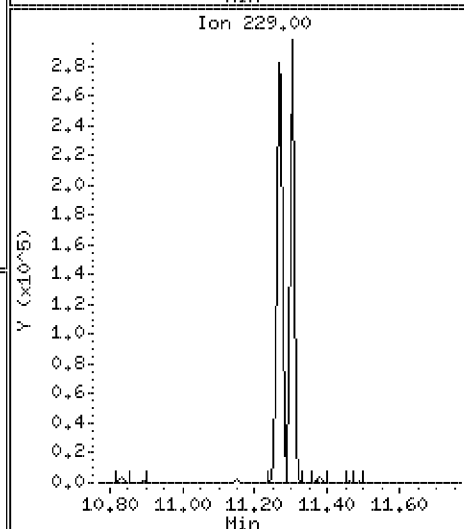
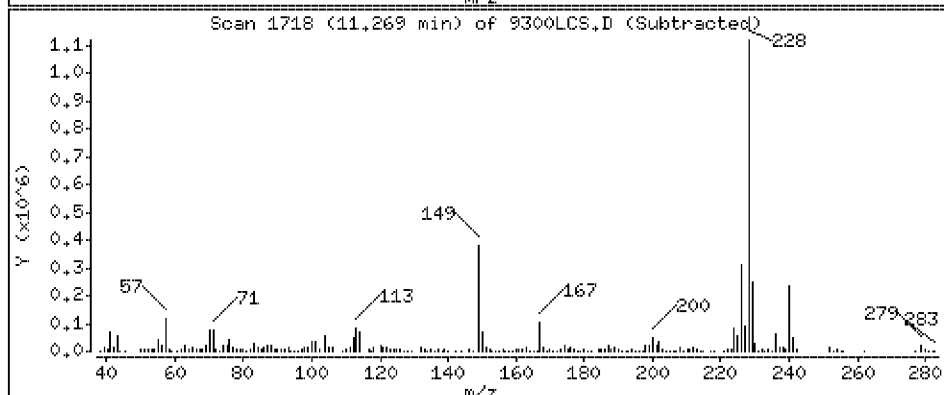
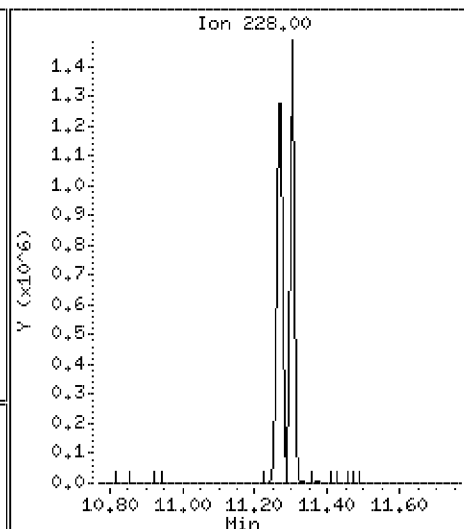
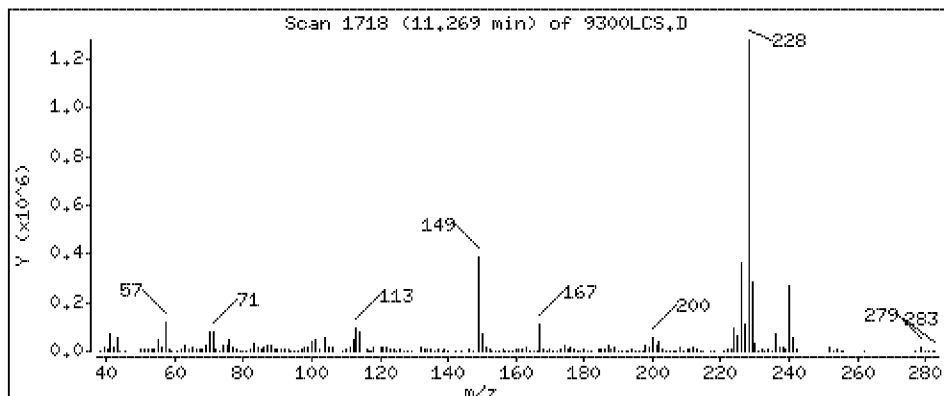
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

120 Benzo[*a*]anthracene

Concentration: 1680 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

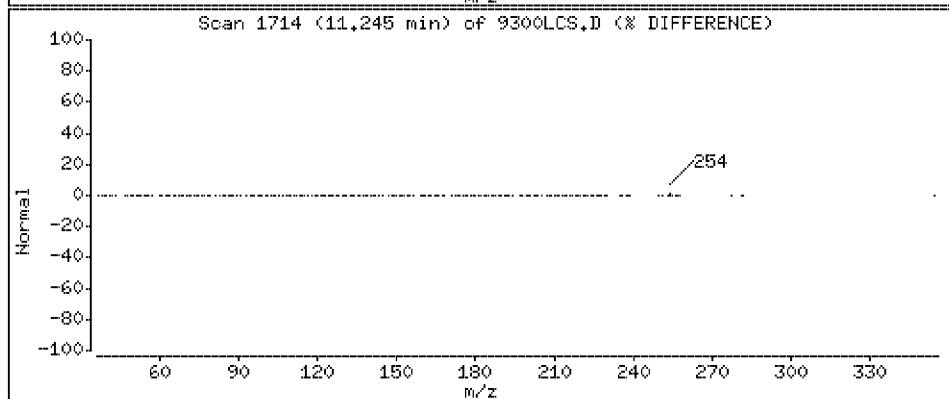
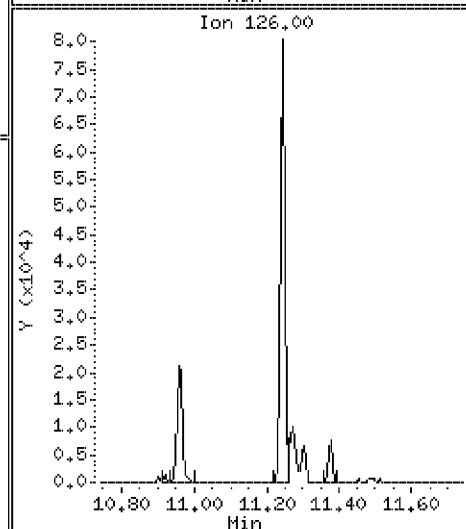
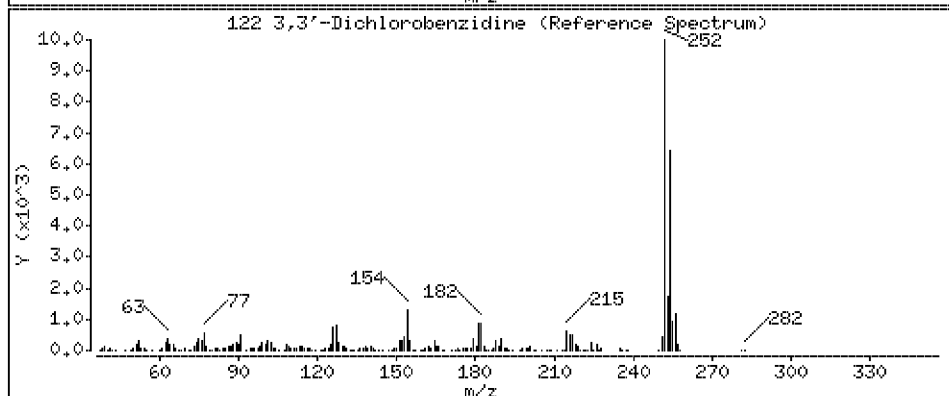
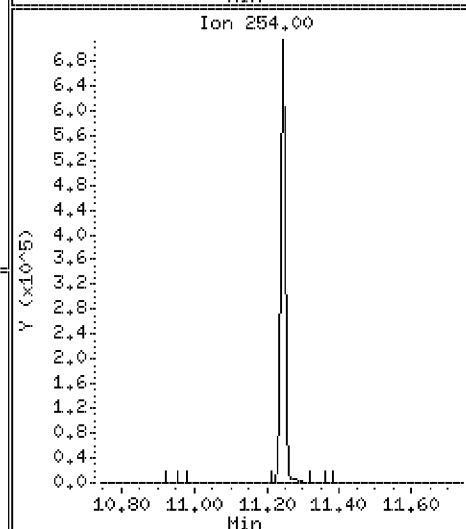
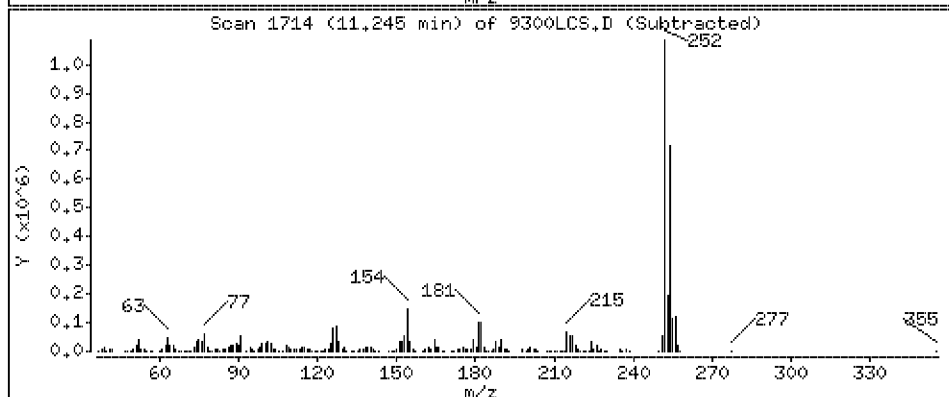
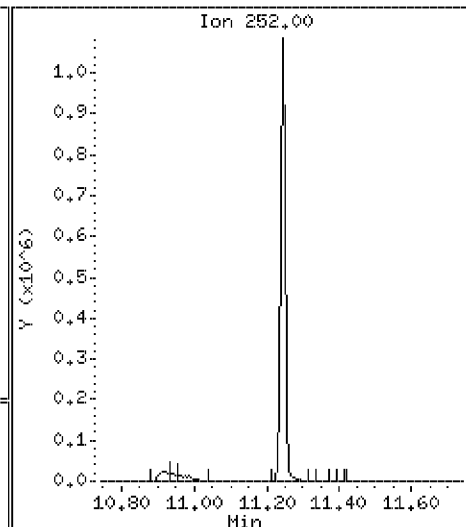
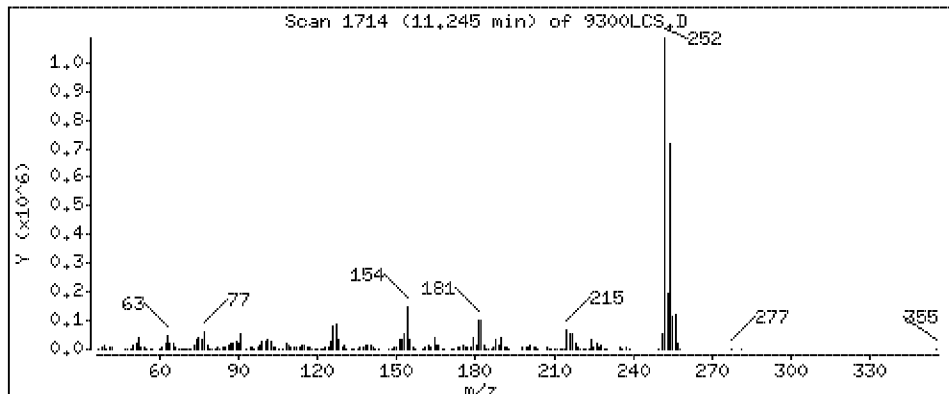
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

122 3,3'-Dichlorobenzidine

Concentration: 2350 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

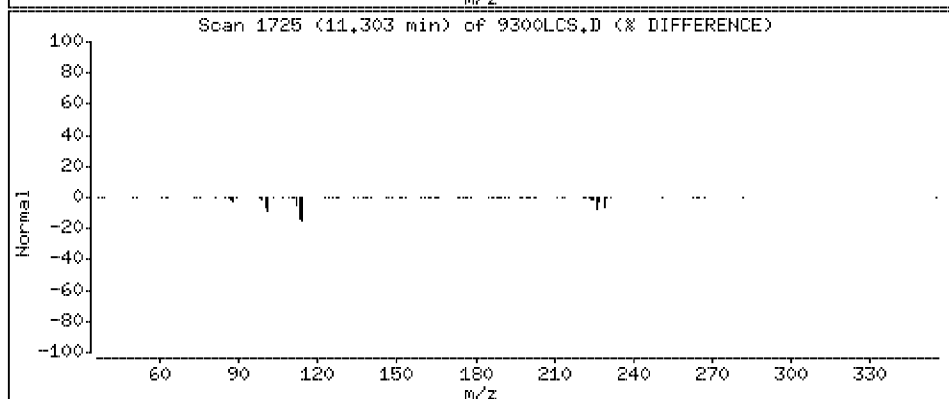
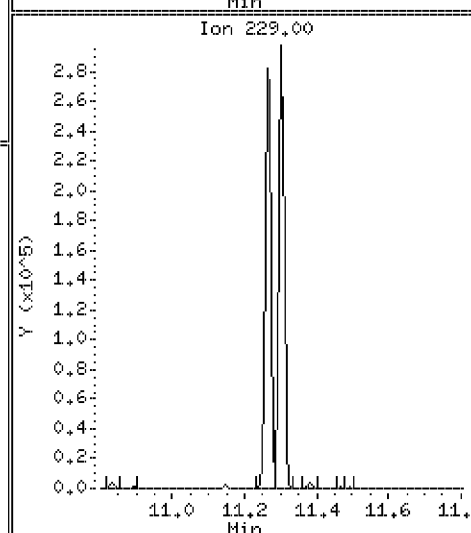
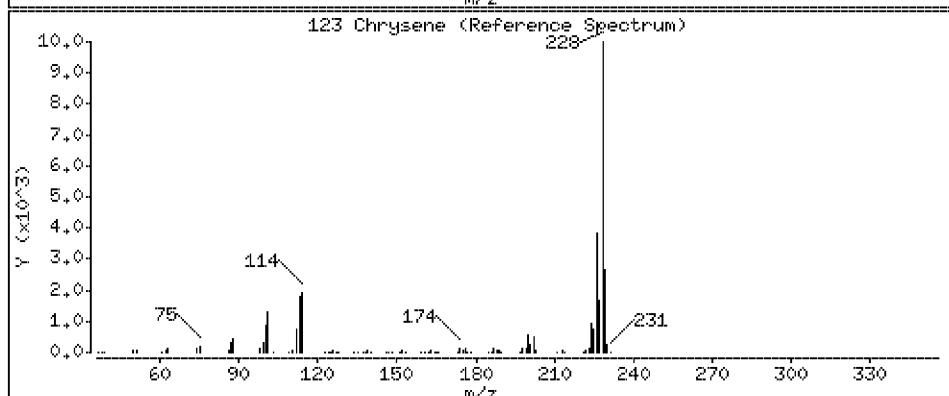
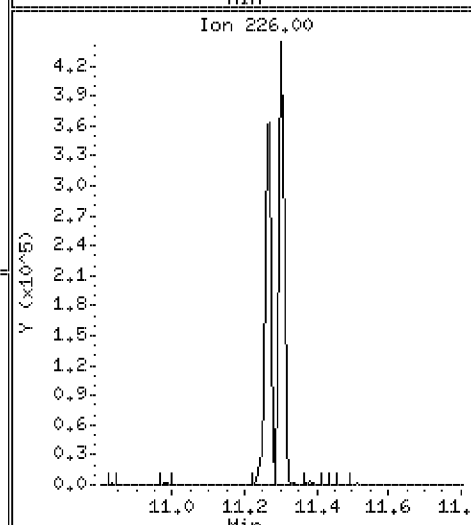
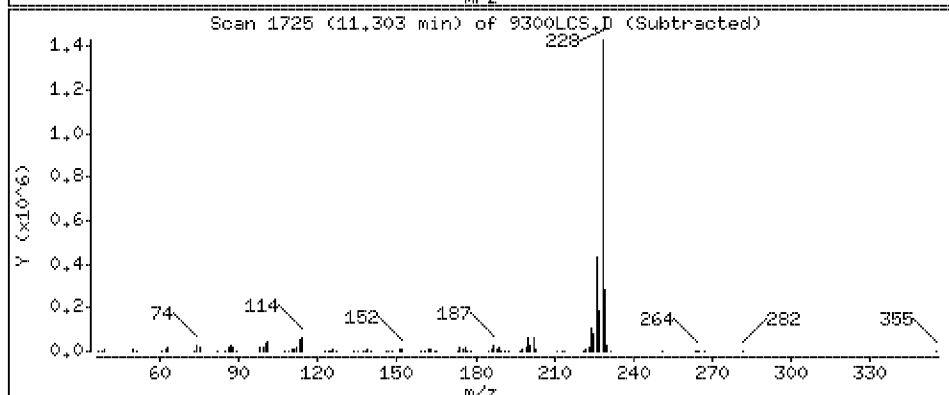
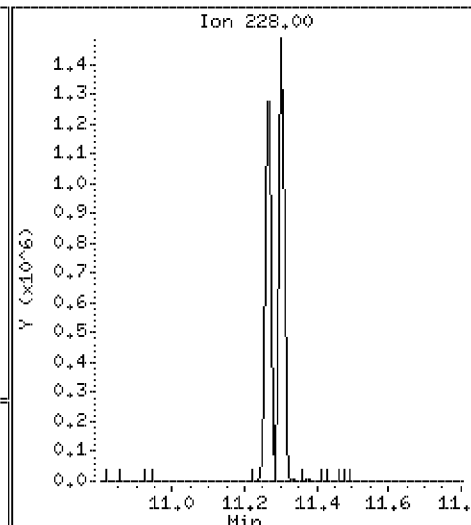
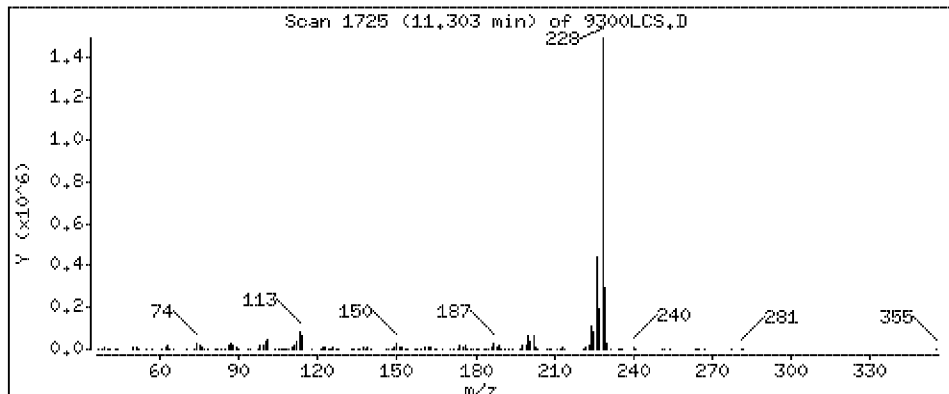
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

123 Chrysene

Concentration: 1580 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

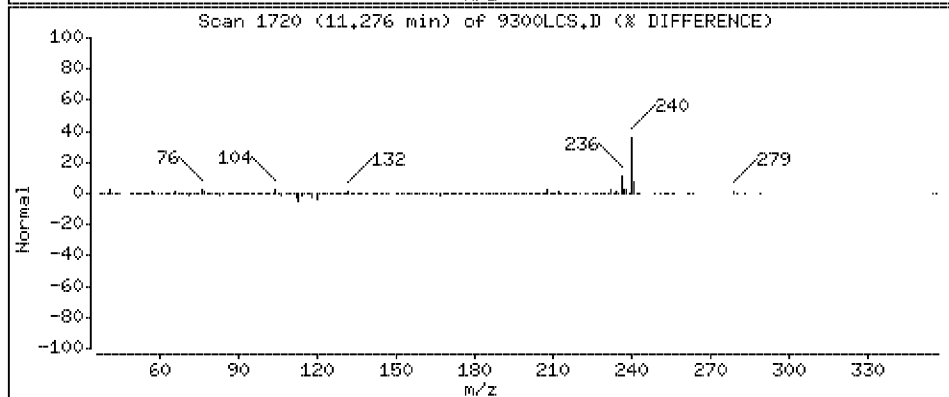
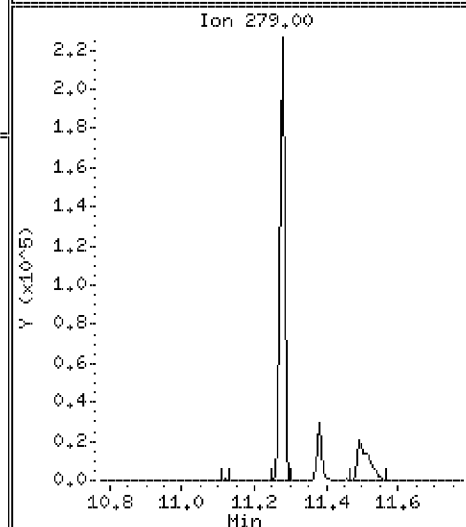
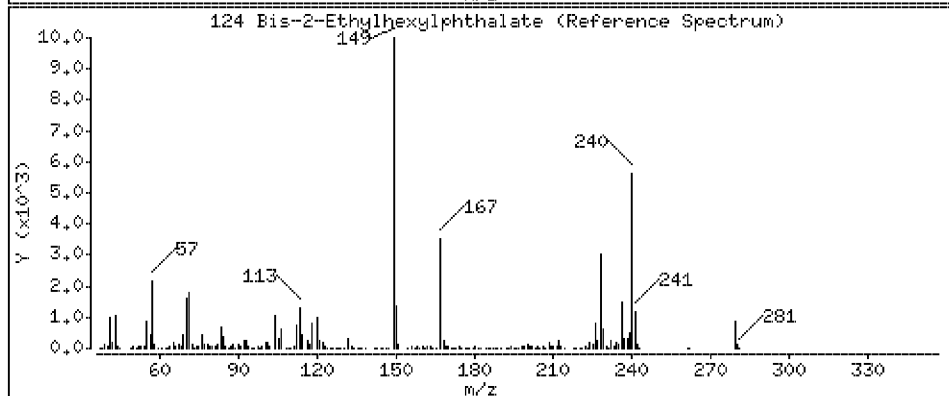
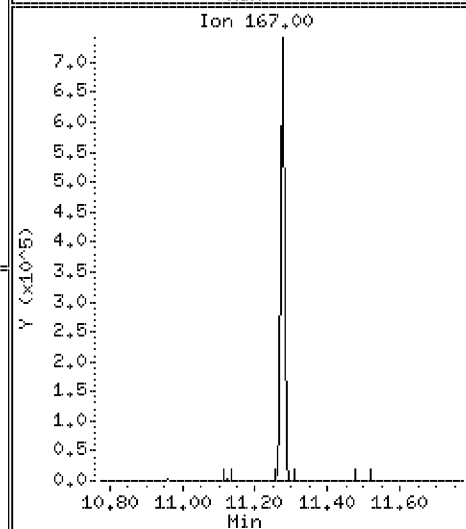
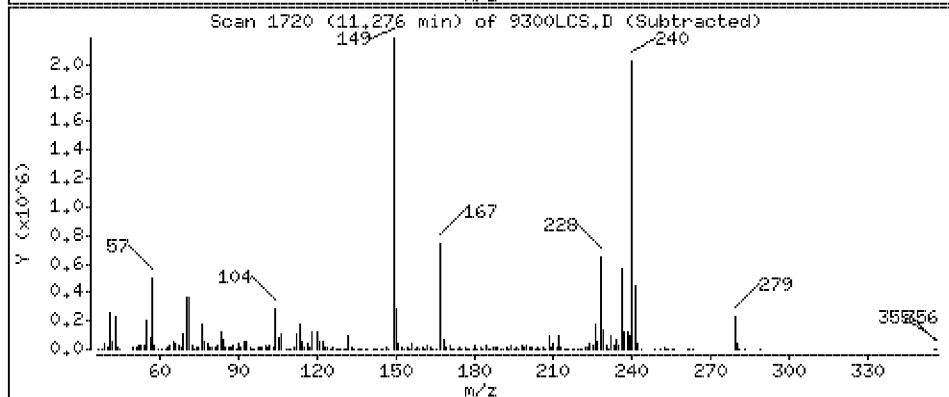
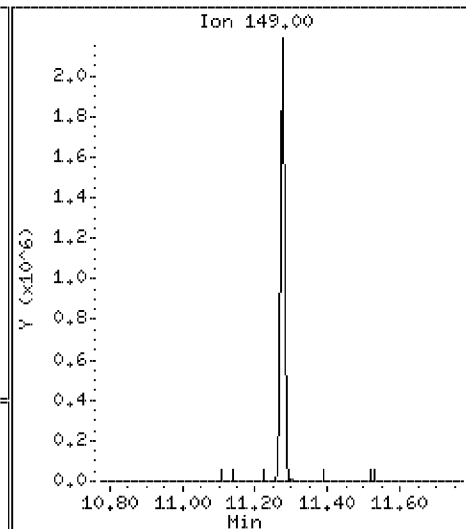
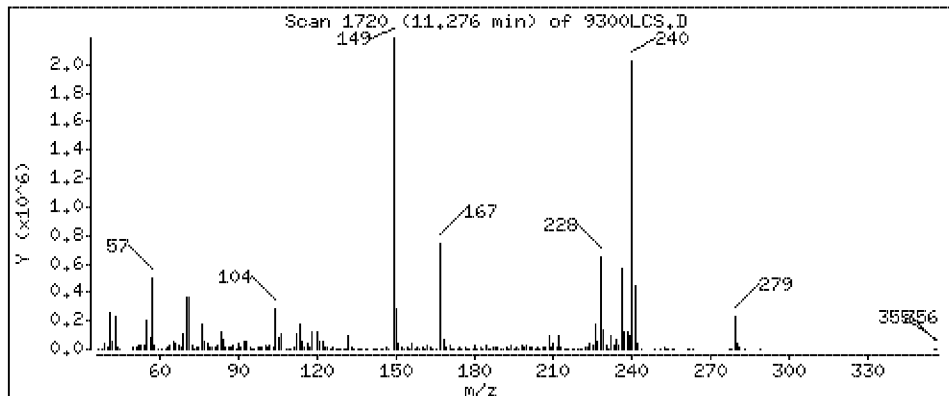
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

124 Bis-2-Ethylhexylphthalate

Concentration: 3200 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

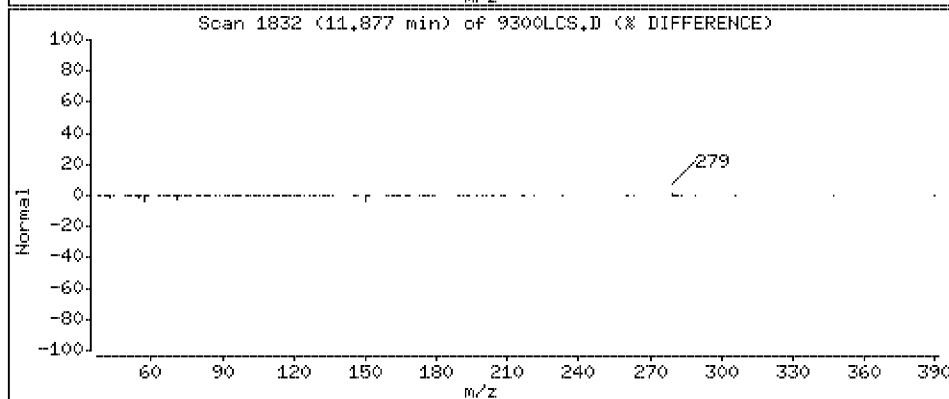
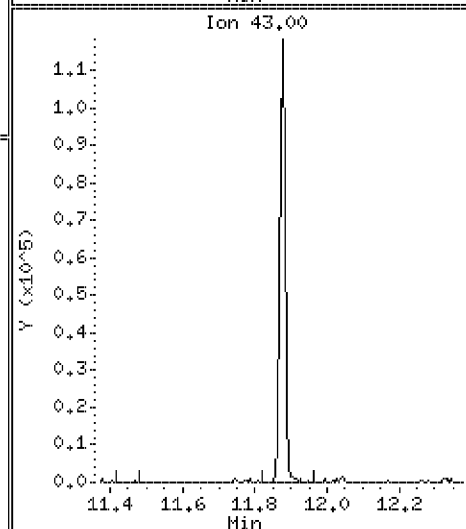
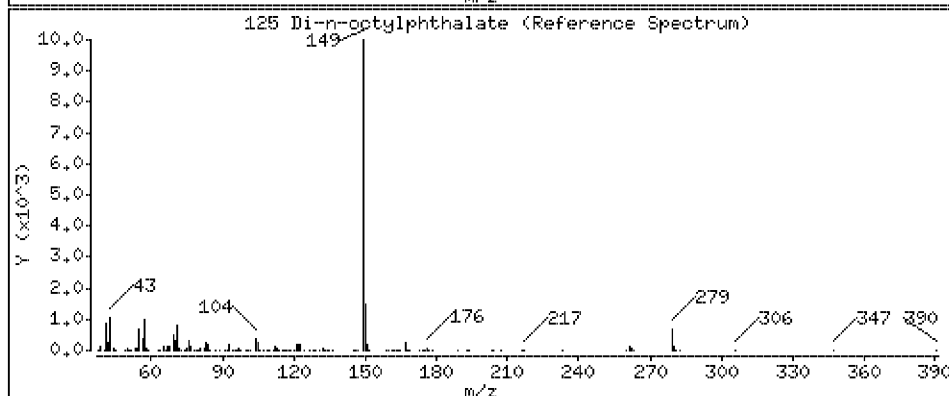
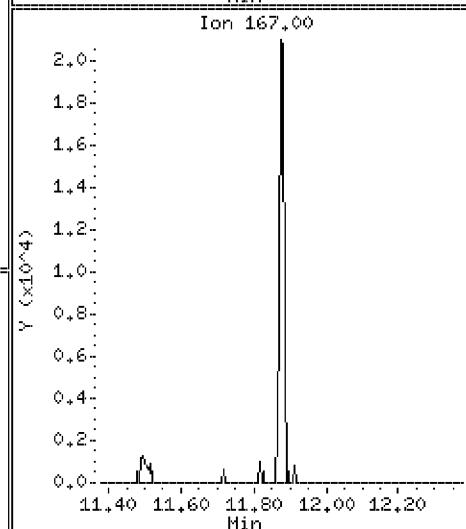
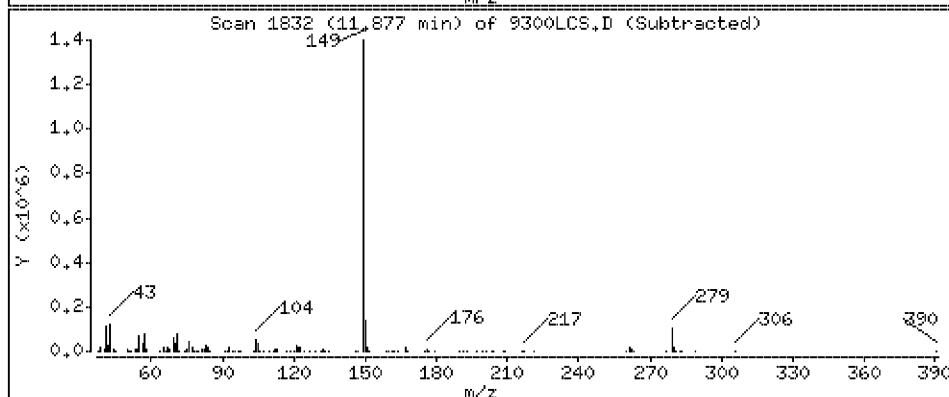
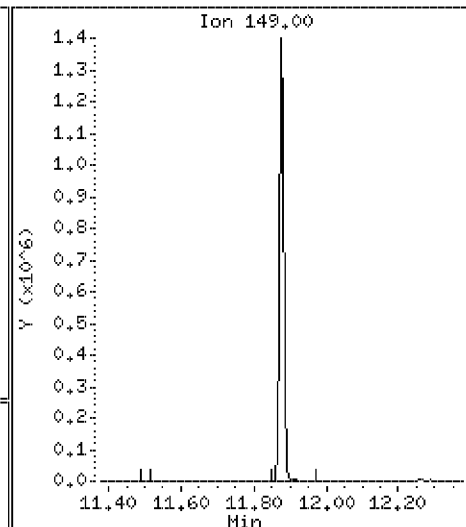
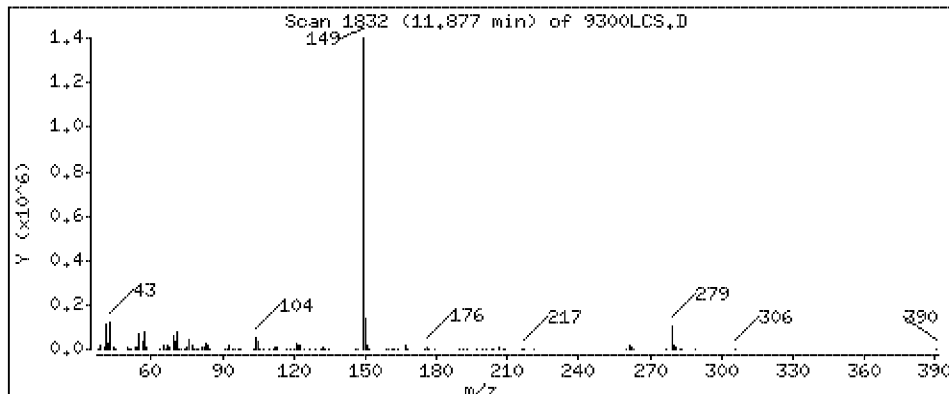
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

125 Di-n-octylphthalate

Concentration: 1930 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

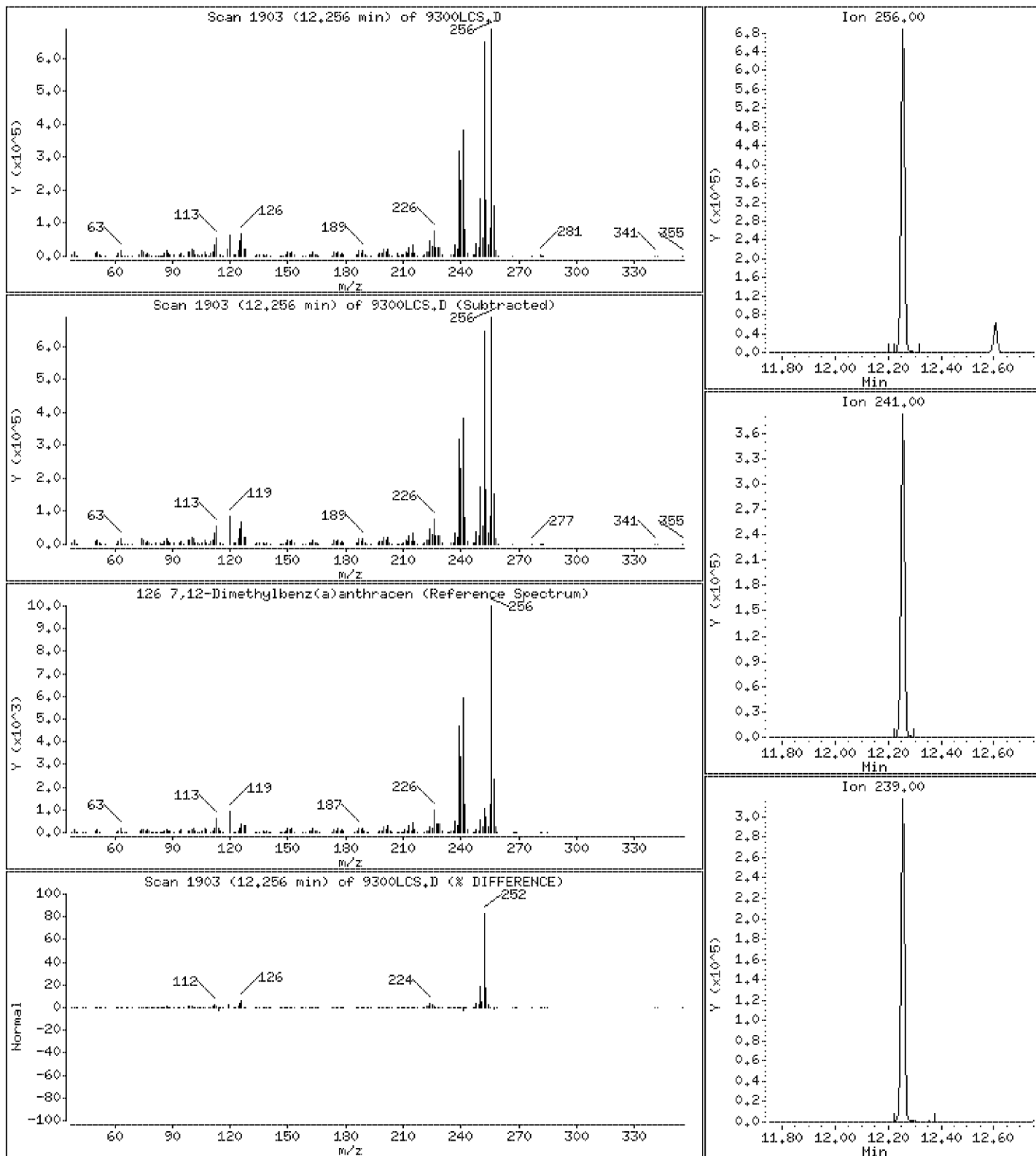
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

126 7,12-Dimethylbenz(a)anthracen

Concentration: 1660 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

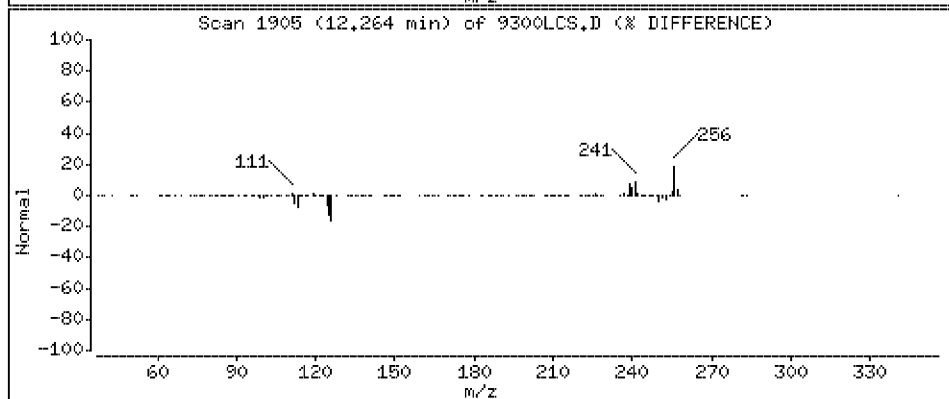
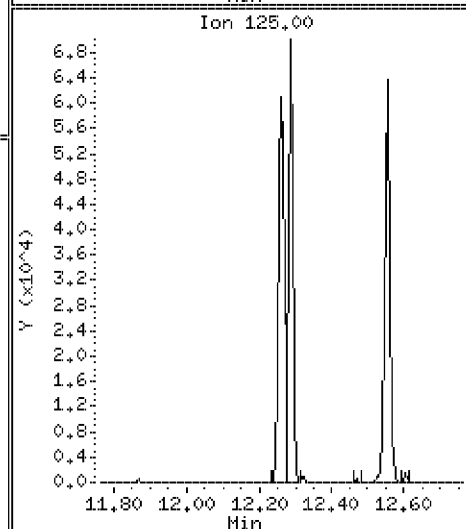
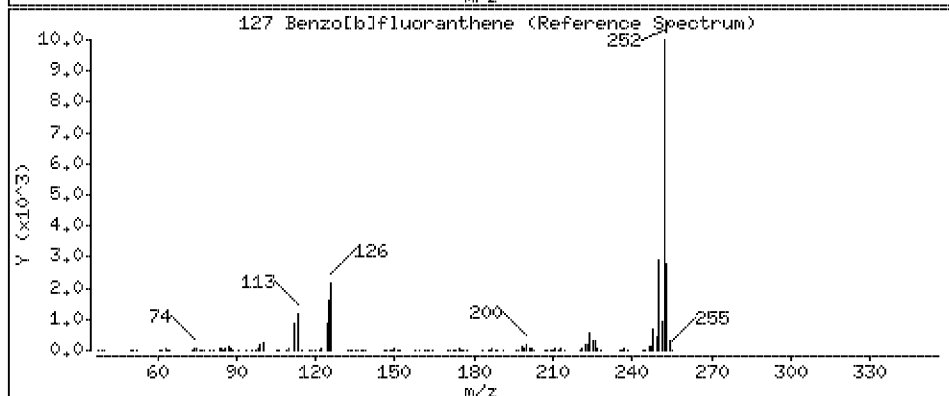
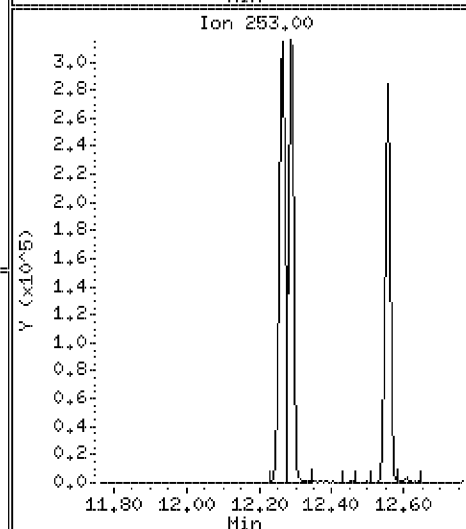
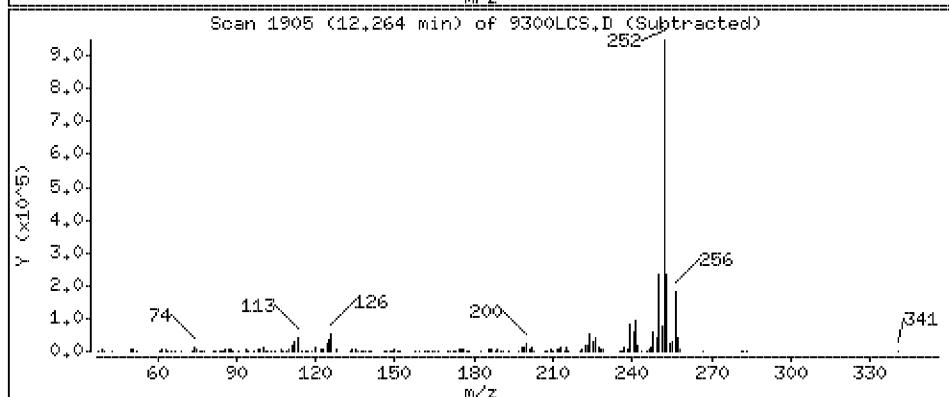
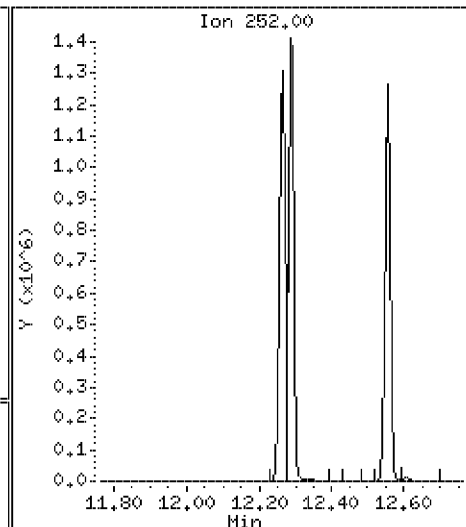
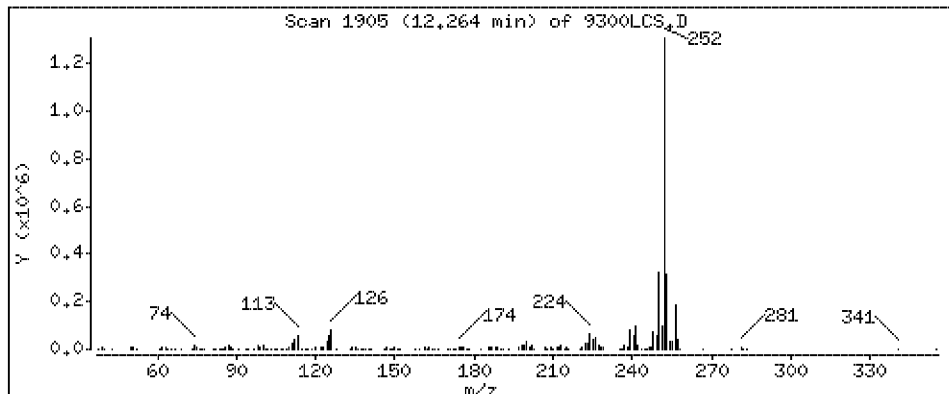
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

127 Benzo[b]fluoranthene

Concentration: 2060 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

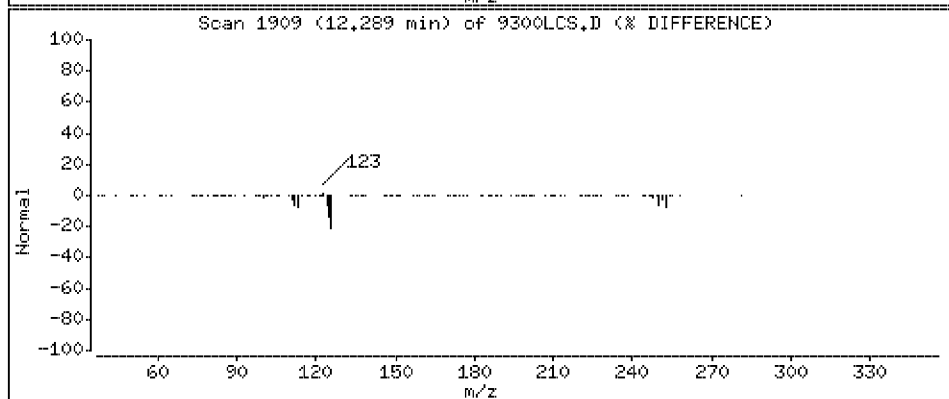
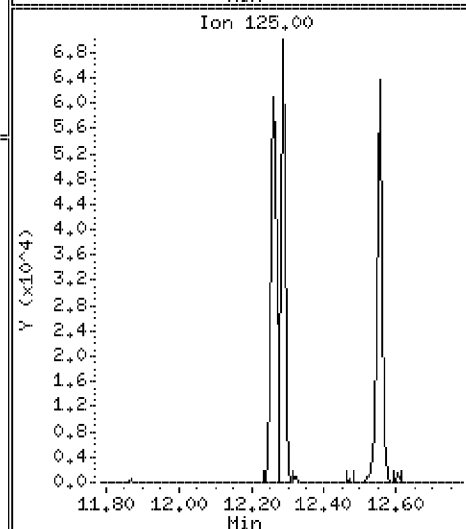
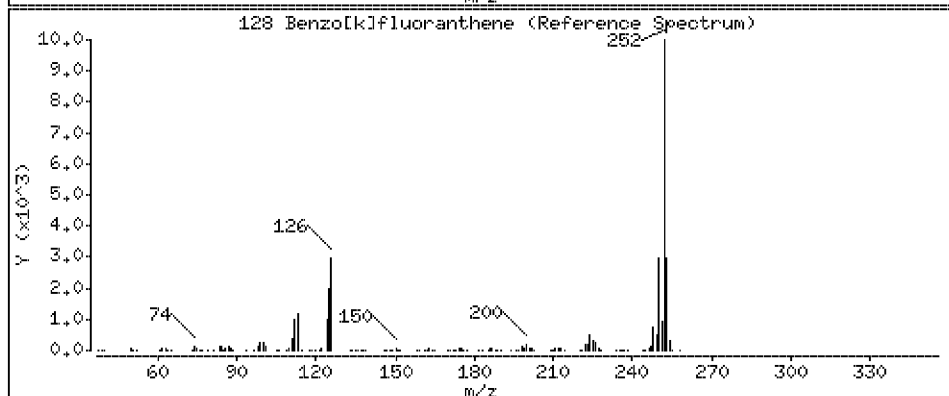
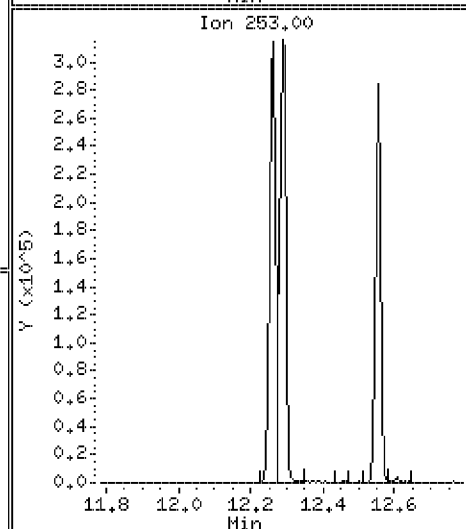
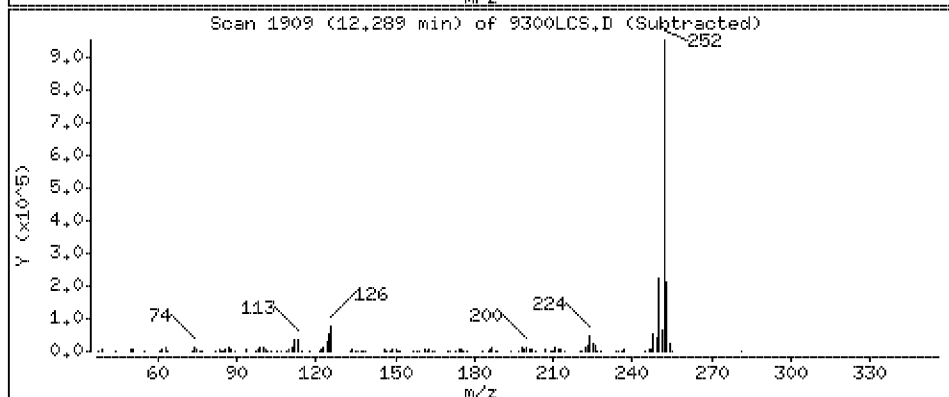
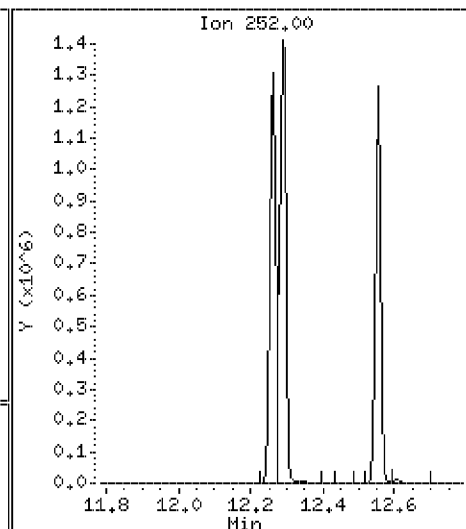
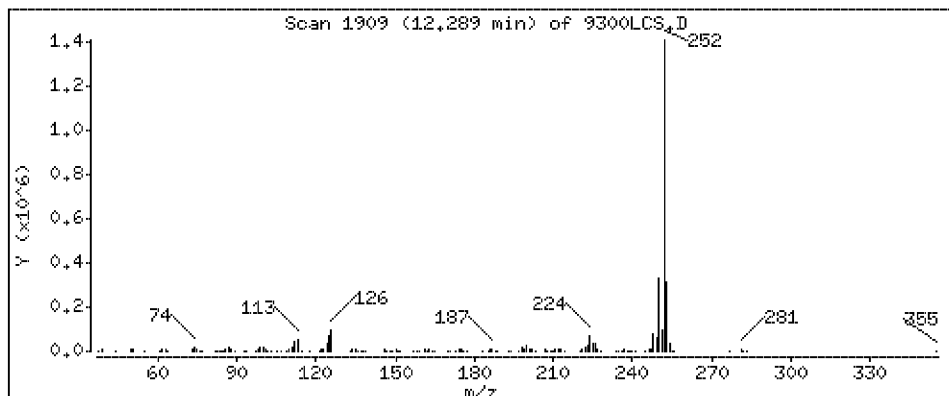
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

128 Benzo[k]fluoranthene

Concentration: 1790 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

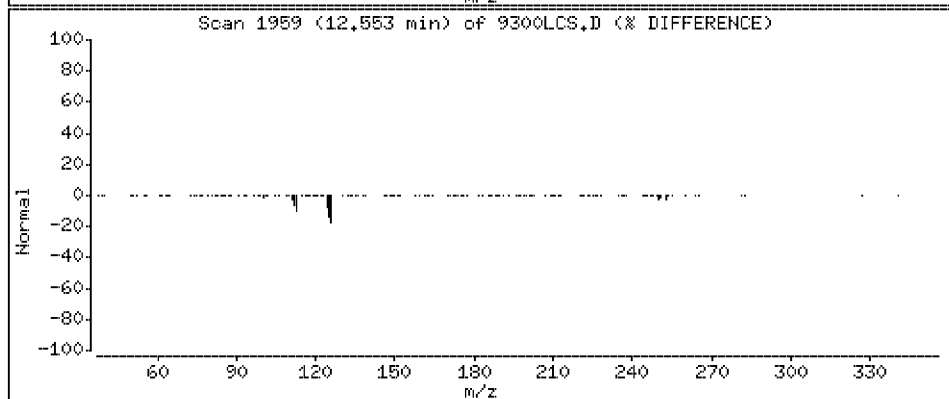
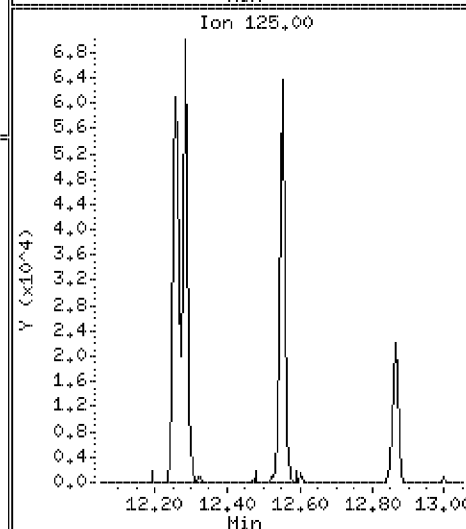
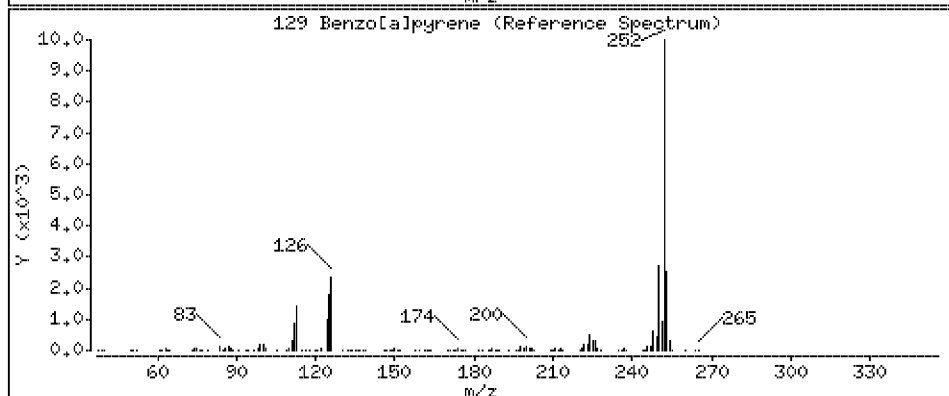
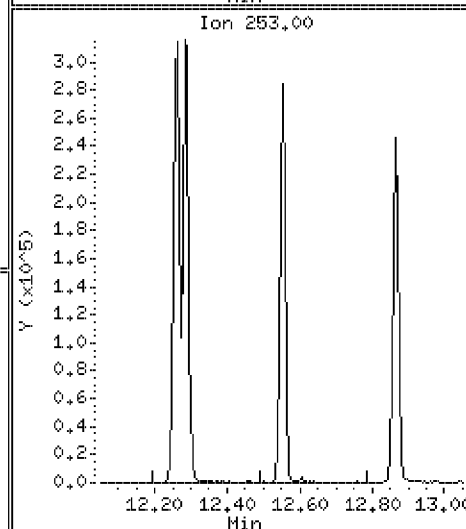
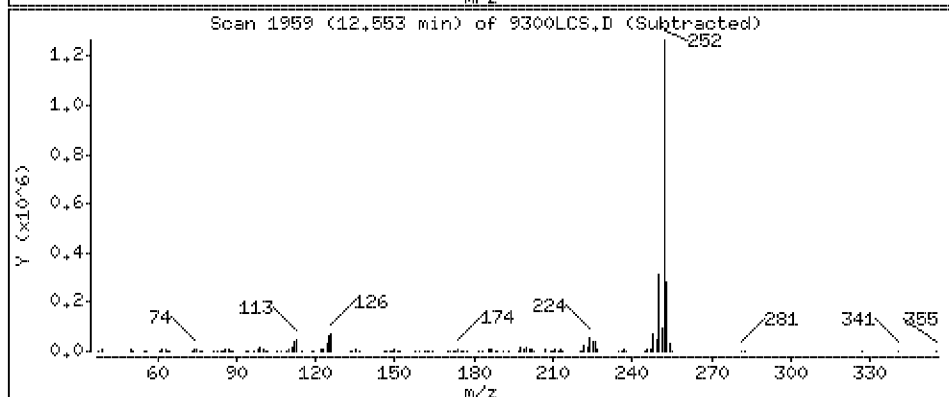
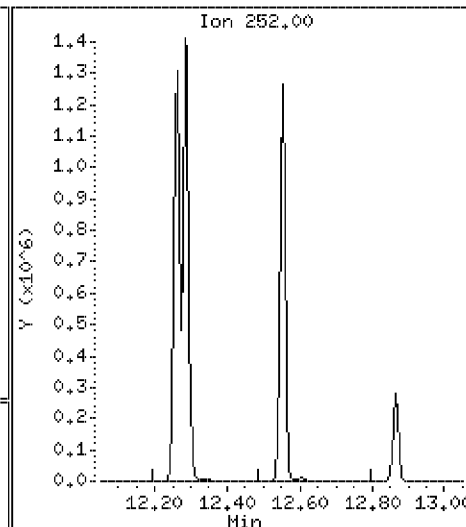
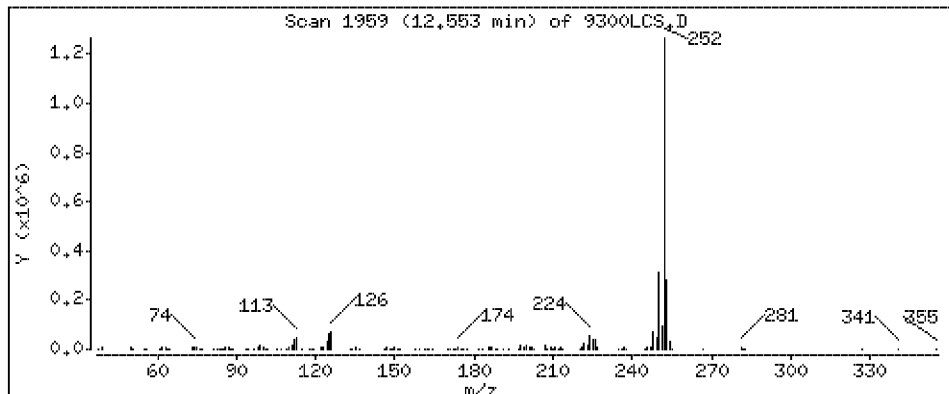
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

129 Benzo[ap]pyrene

Concentration: 1800 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

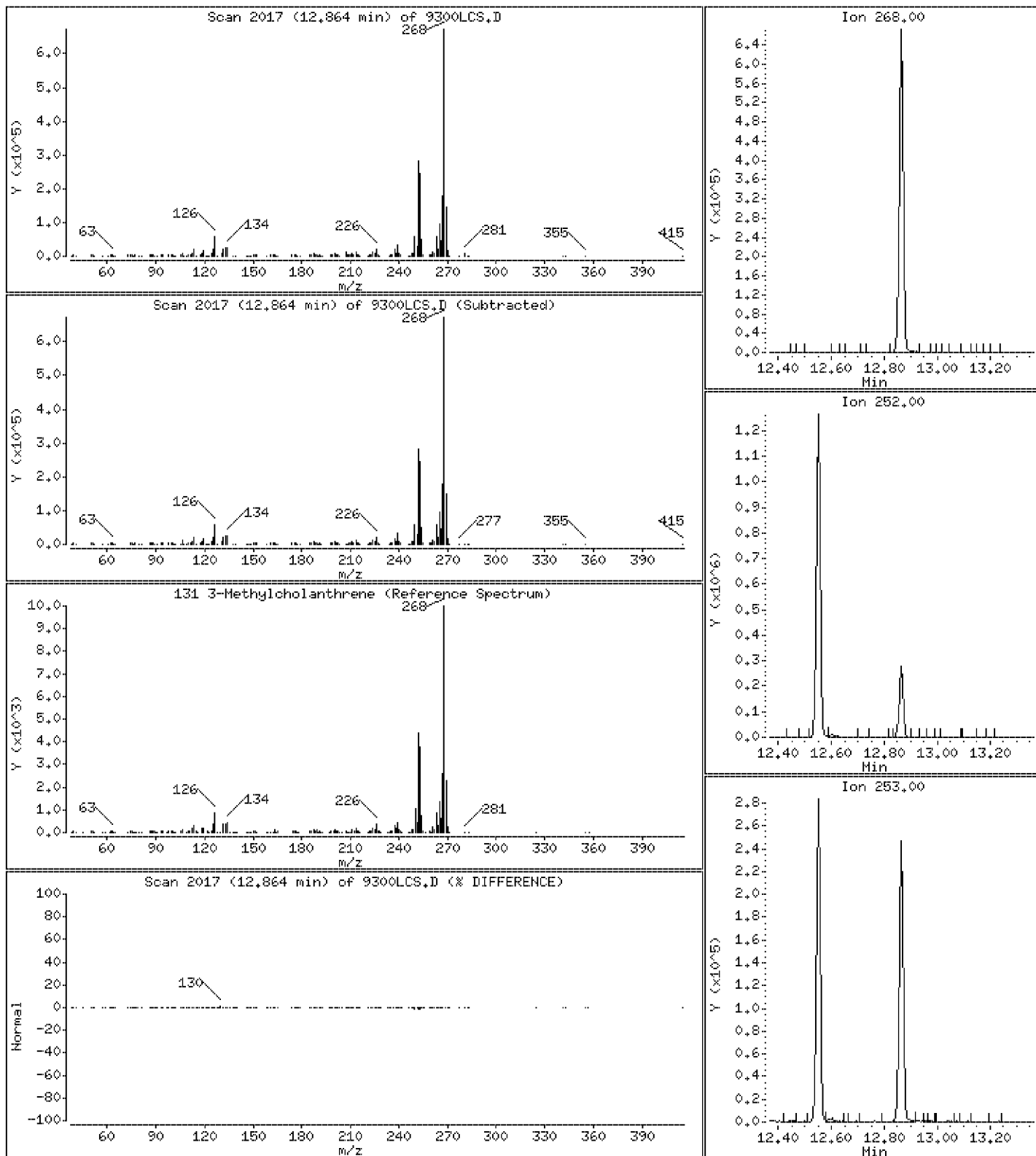
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

131 3-Methylcholanthrene

Concentration: 1560 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

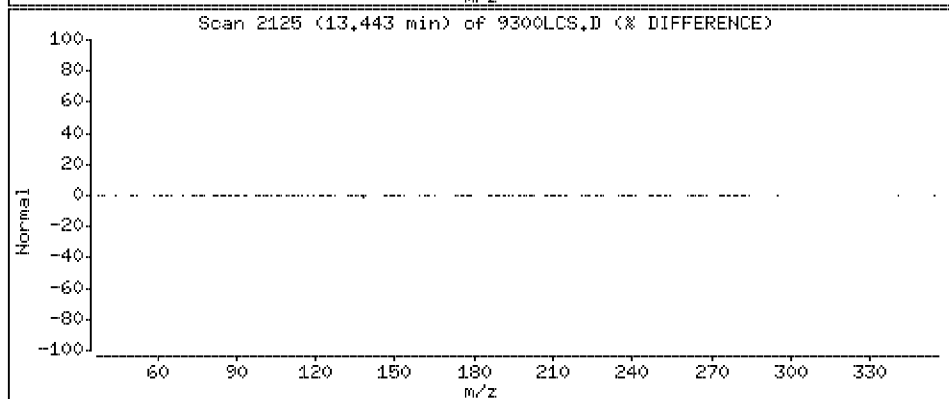
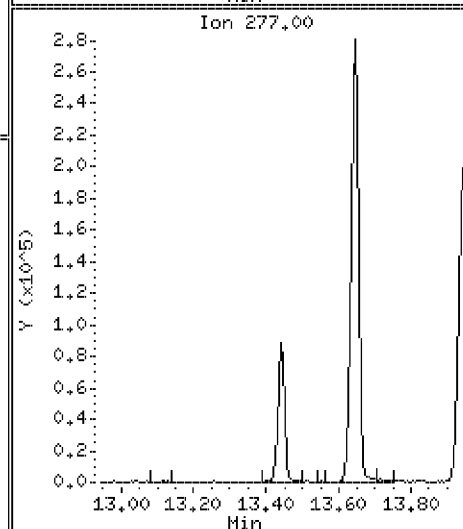
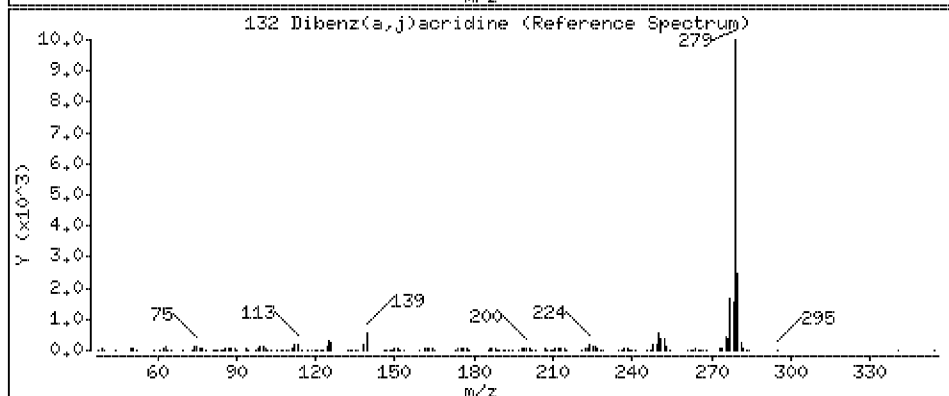
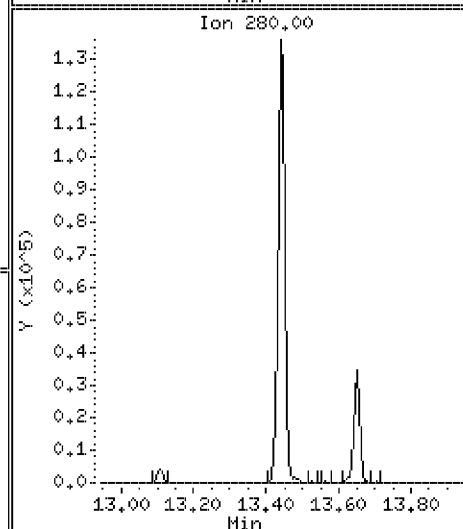
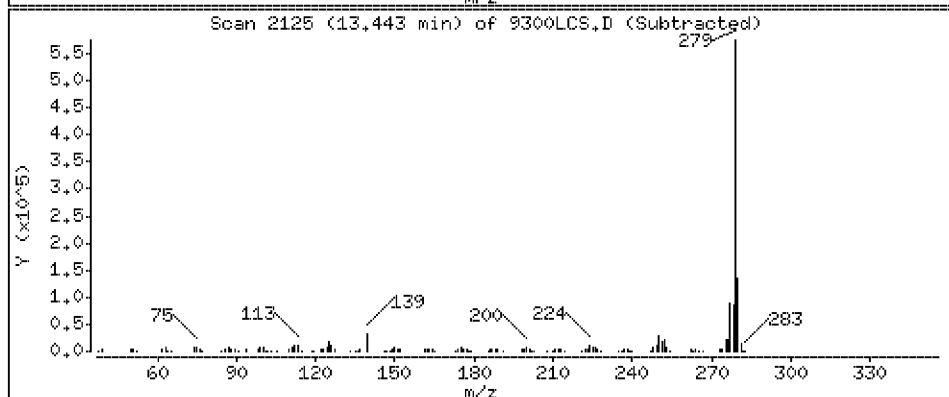
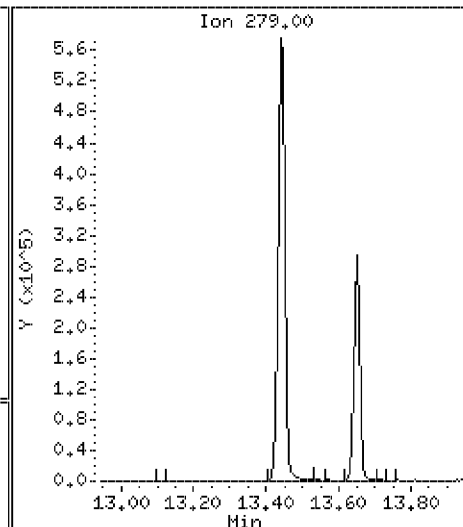
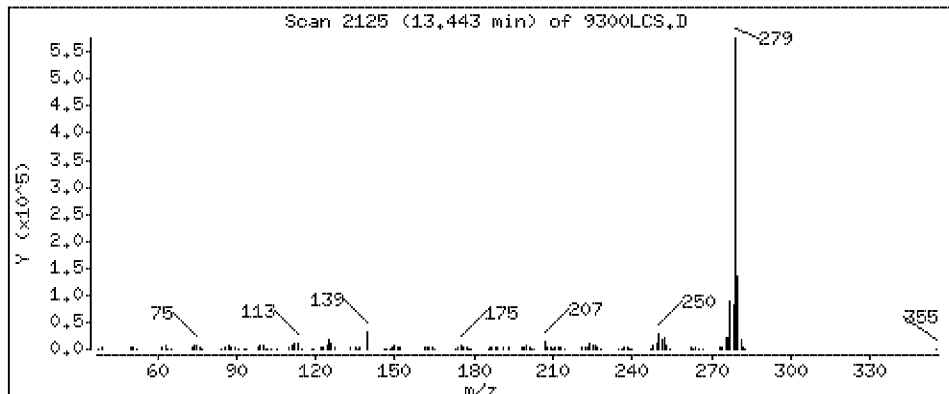
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

132 Dibenz(a,j)acridine

Concentration: 1180 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

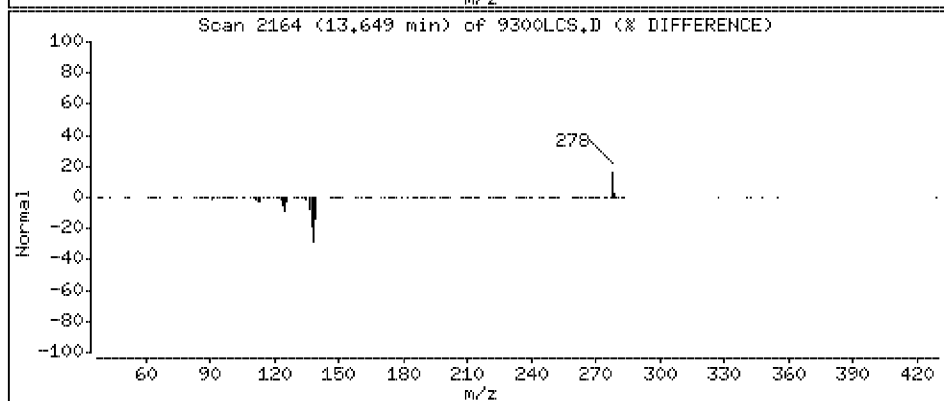
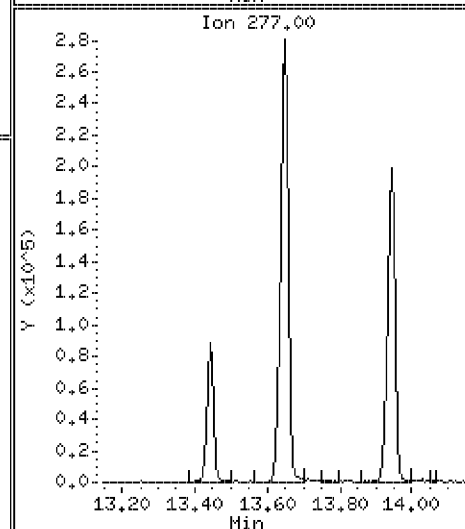
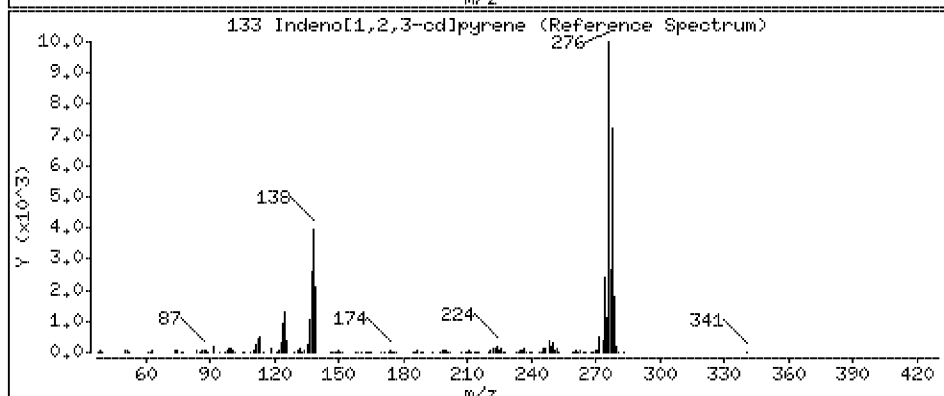
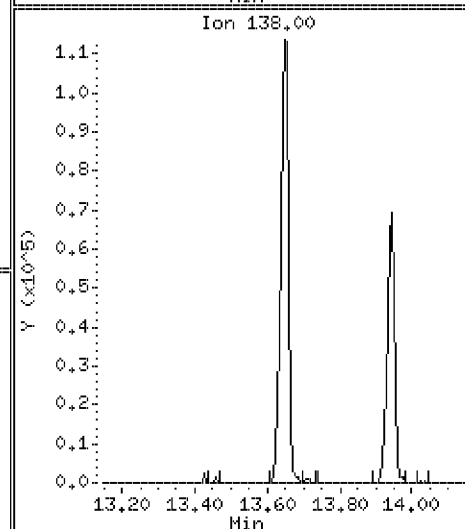
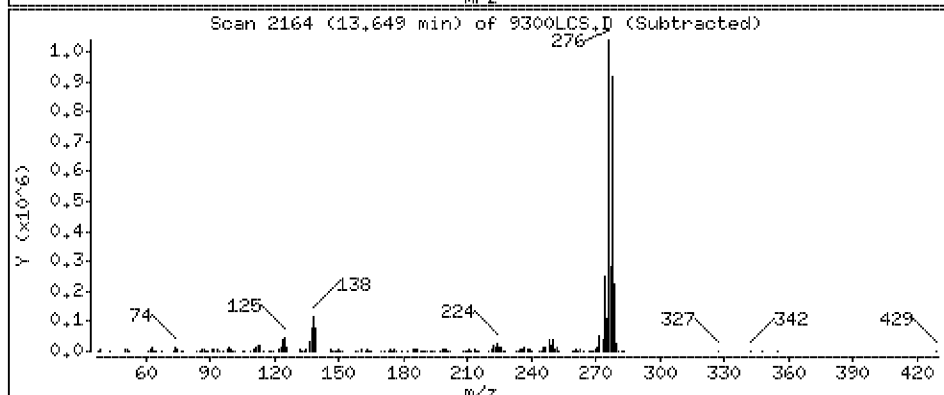
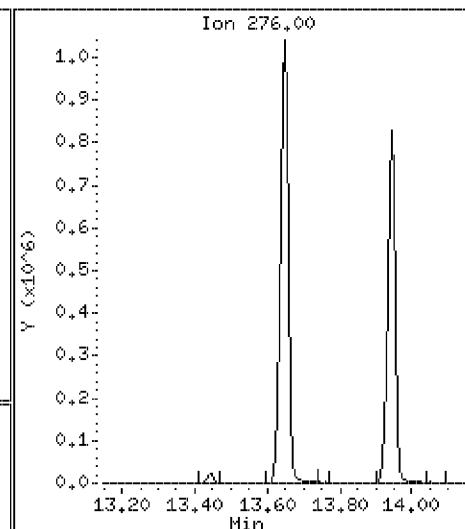
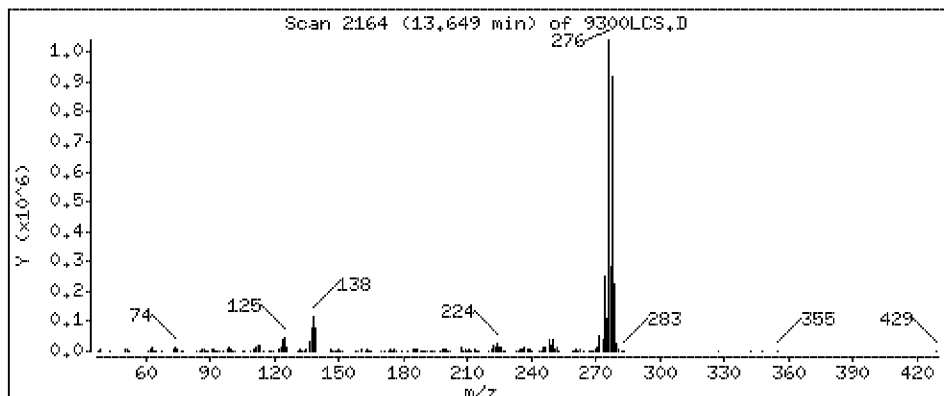
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

133 Indeno[1,2,3-cd]pyrene

Concentration: 1780 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

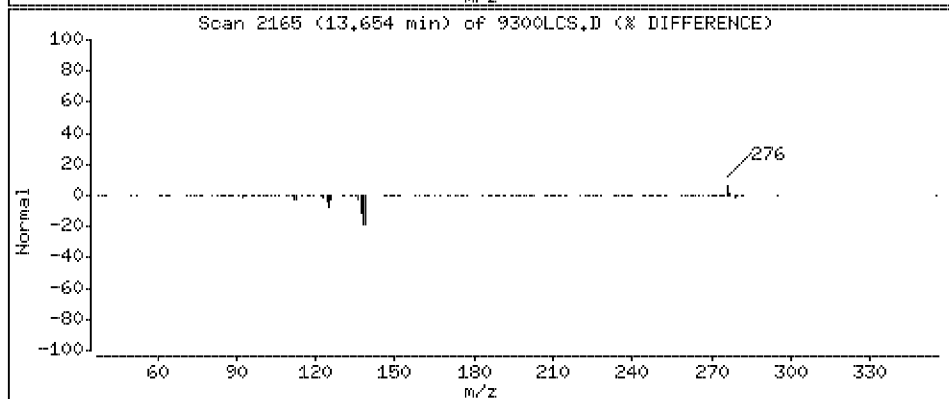
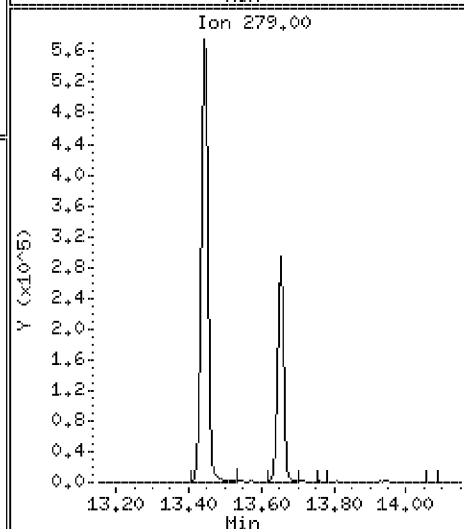
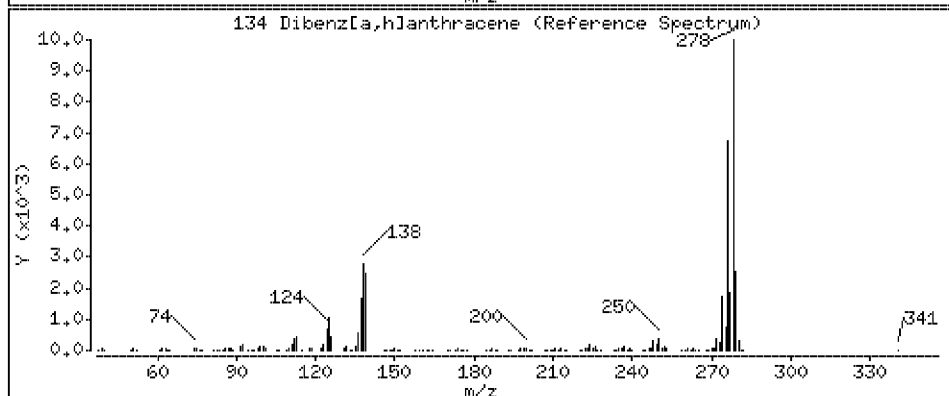
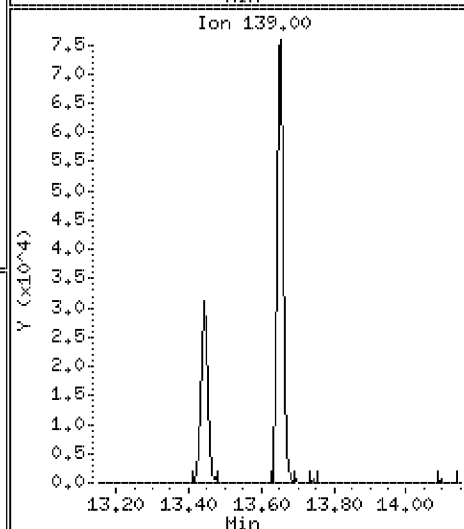
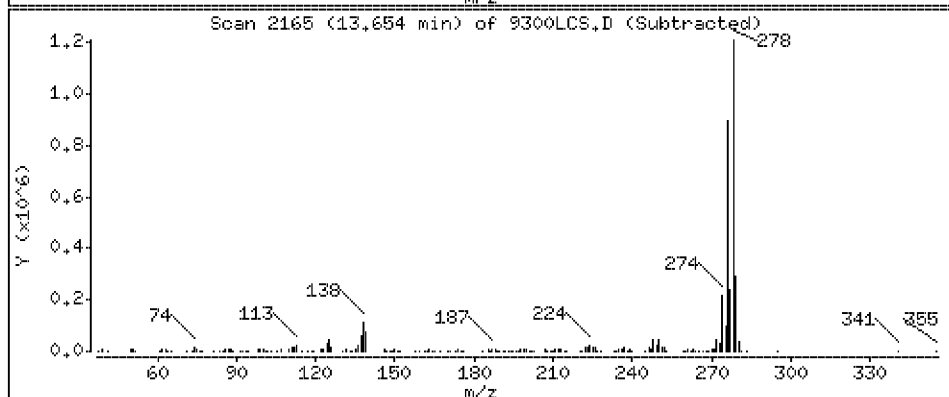
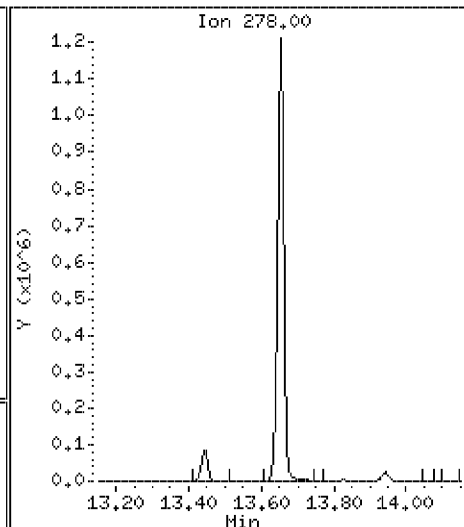
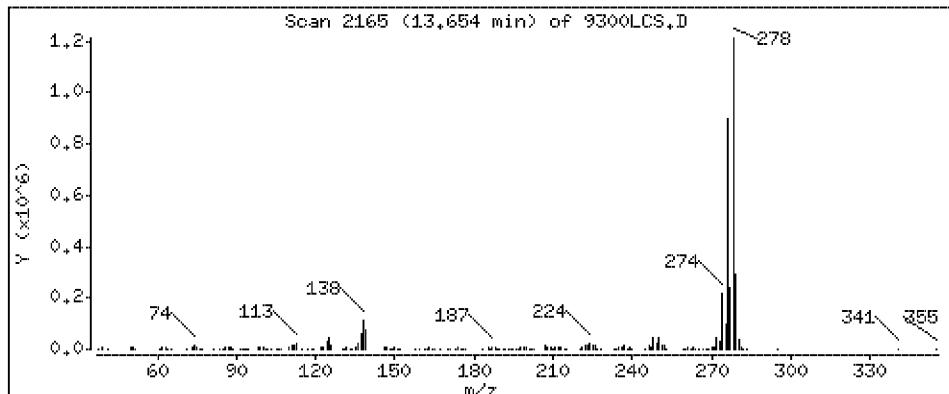
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

134 Dibenz[a,h]anthracene

Concentration: 1810 ug/kg



Date : 03-MAY-2012 14:27

Client ID: 128825LCS

Instrument: smsd03.i

Sample Info: SM128825LCS

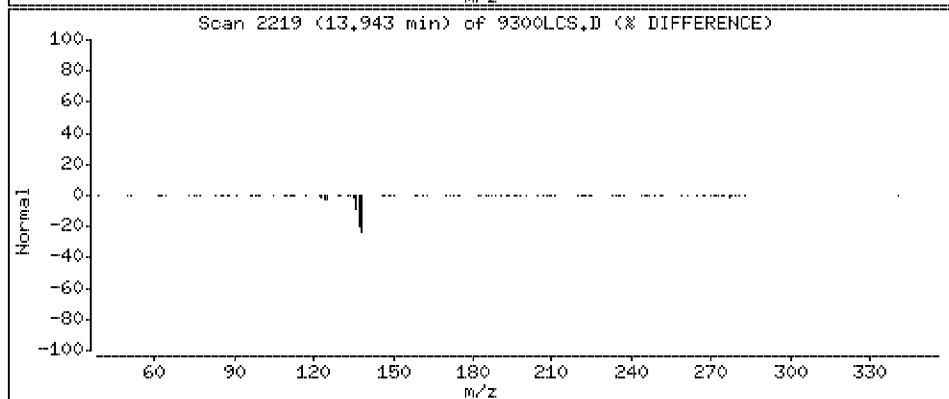
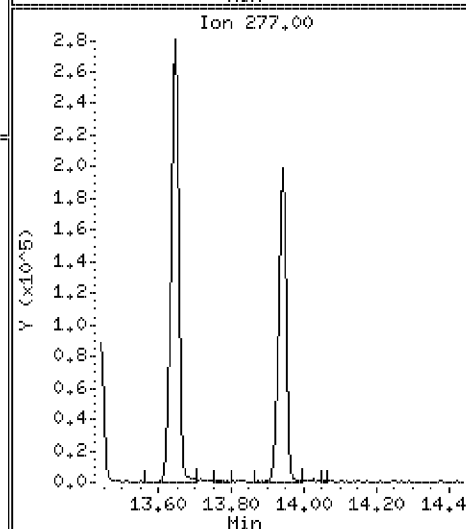
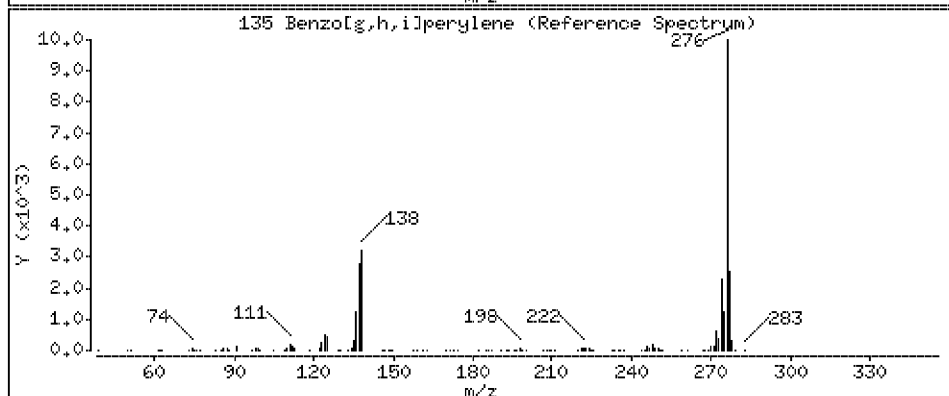
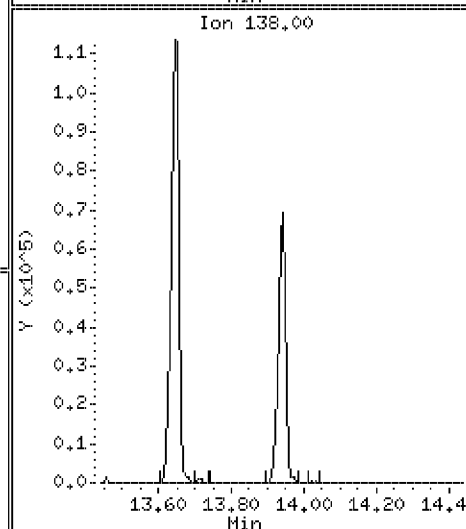
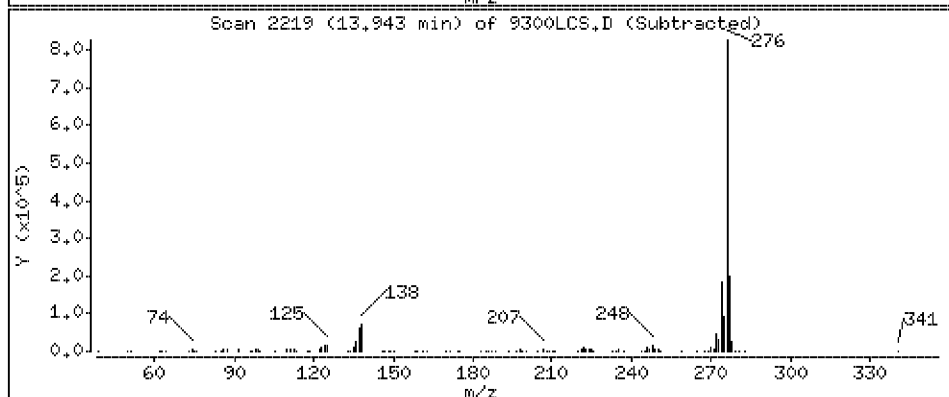
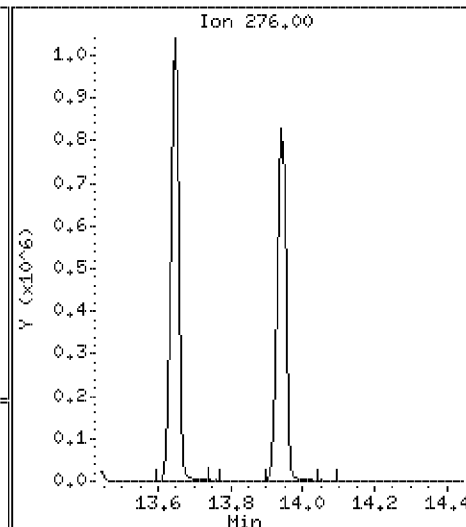
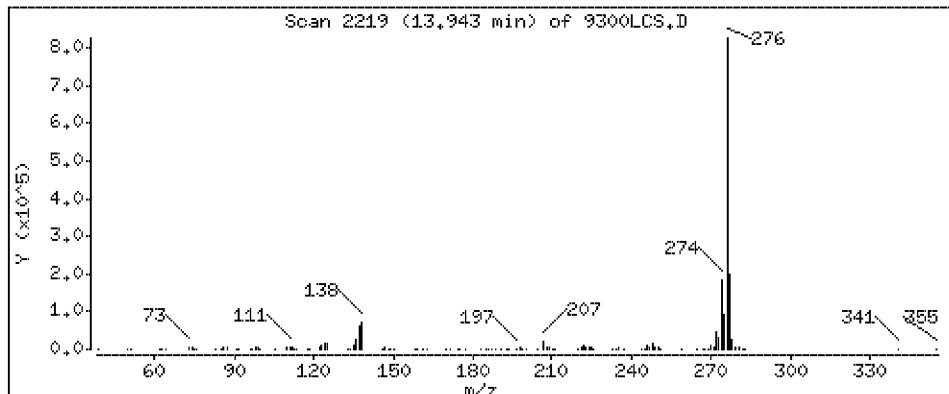
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

135 Benzo[*g,h,i*]perylene

Concentration: 1750 ug/kg



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3050412.b\DFTPP1.D
Lab Smp Id: 45777 Client Smp ID: DFTPP1
Inj Date : 04-MAY-2012 07:53
Operator : PEL Inst ID: smsd03.i
Smp Info : 45777
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3050412.b\DoDTUN.m
Meth Date : 30-Apr-2012 13:57 mjacobs Quant Type: ISTD
Cal Date : 23-MAR-2009 02:58 Cal File: AP9CAL1.D
Als bottle: 100 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: SVECD04

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL	FINAL	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 dftpp				CAS #: 5074-71-5					
7.462	7.728	(0.000)	198	306880			0.00- 100.00	97.62	
7.462	7.728	(0.000)	51	85216			10.00- 80.00	27.77	
7.462	7.728	(0.000)	68	1572			0.00- 2.00	1.13	
7.462	7.728	(0.000)	69	139520			0.00- 0.00	45.46	
7.462	7.728	(0.000)	70	1020			0.00- 2.00	0.73	
7.462	7.728	(0.000)	127	134464			10.00- 80.00	43.82	
7.462	7.728	(0.000)	197	713			0.00- 2.00	0.23	
7.462	7.728	(0.000)	199	21616			5.00- 9.00	7.04	
7.462	7.728	(0.000)	275	106328			10.00- 60.00	34.65	
7.462	7.728	(0.000)	365	20976			1.00- 0.00	6.84	
7.462	7.728	(0.000)	441	51440			0.01- 24.00	16.36	
7.462	7.728	(0.000)	442	314368			50.00- 0.00	102.44	
7.462	7.728	(0.000)	443	61912			15.00- 24.00	19.69	

Data File: \\Svecd04\DD\chem\smsd03.i\S3050412,b\DFTPP1.D

Date : 04-MAY-2012 07:53

Client ID: DFTPP1

Sample Info: 45777

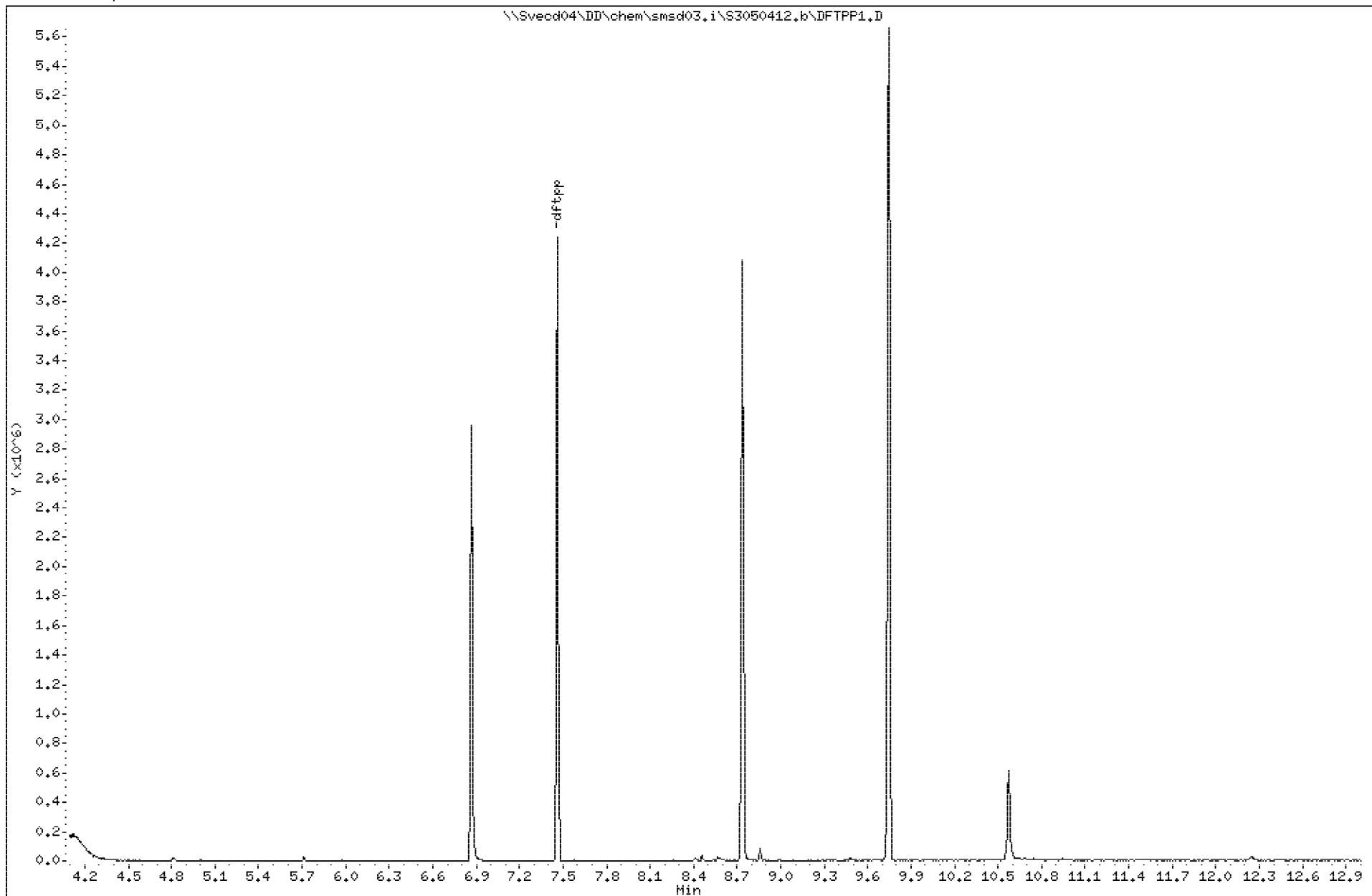
Volume Injected (uL): 1.0

Column phase:

Instrument: smsd03.i

Operator: PEL

Column diameter: 2.00



Data File: \\Svecd04\DD\chem\smsd03.i\S3050412.b\DFTPP1.D

Date : 04-MAY-2012 07:53

Client ID: DFTPP1

Instrument: smsd03.i

Sample Info: 45777

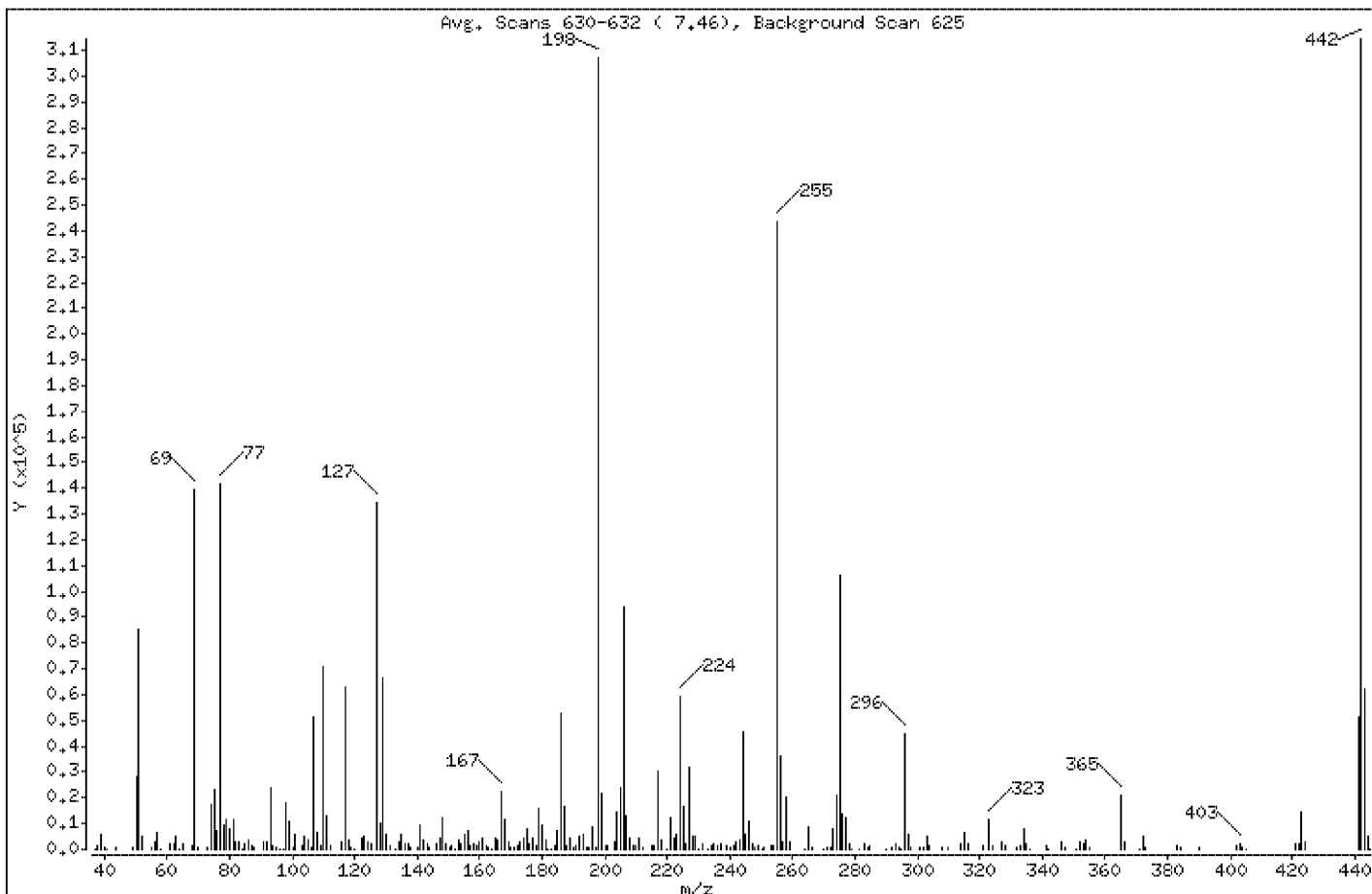
Volume Injected (uL): 1.0

Operator: PEL

Column phase:

Column diameter: 2.00

1 dfpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	27.77
68	Less than 2.00% of mass 69	0.51 (1.13)
69	Mass 69 relative abundance	45.46
70	Less than 2.00% of mass 69	0.33 (0.73)
127	10.00 - 80.00% of mass 198	43.82
197	Less than 2.00% of mass 198	0.23
199	5.00 - 9.00% of mass 198	7.04
275	10.00 - 60.00% of mass 198	34.65
365	Greater than 1.00% of mass 198	6.84
441	0.01 - 24.00% of mass 442	16.76 (16.36)
442	Greater than 50.00% of mass 198	102.44
443	15.00 - 24.00% of mass 442	20.17 (19.69)

Data File: \\Svecd04\DD\chem\smsd03.i\S3050412.b\DFTPP1.D

Date : 04-MAY-2012 07:53

Client ID: DFTPP1

Instrument: smsd03.i

Sample Info: 45777

Volume Injected (uL): 1.0

Operator: PEL

Column phase:

Column diameter: 2.00

Data File: DFTPP1.D

Spectrum: Avg. Scans 630-632 (7.46), Background Scan 625

Location of Maximum: 442.00

Number of points: 265

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	232	125.00	2330	196.00	8326	277.00	12079
38.00	1232	127.00	134464	197.00	713	278.00	2113
39.00	5797	128.00	9924	198.00	306880	279.00	334
40.00	650	129.00	66232	199.00	21616	281.00	268
41.00	257	130.00	5621	200.00	1297	283.00	2060
44.00	538	131.00	1488	201.00	1133	284.00	770
49.00	682	133.00	281	203.00	3170	285.00	1644
50.00	27896	134.00	2575	204.00	14687	290.00	222
51.00	85216	135.00	6016	205.00	23792	292.00	564
52.00	5001	136.00	2309	206.00	93728	293.00	2427
55.00	595	137.00	2398	207.00	12793	294.00	365
56.00	3237	138.00	456	208.00	4501	295.00	291
57.00	6236	140.00	620	209.00	1294	296.00	45016
58.00	241	141.00	9566	210.00	1703	297.00	5492
61.00	1813	142.00	3289	211.00	4156	298.00	478
62.00	1921	143.00	2201	212.00	752	301.00	489
63.00	5199	144.00	645	215.00	1707	302.00	696
64.00	235	146.00	2129	216.00	1755	303.00	4949
65.00	2209	147.00	4556	217.00	30048	304.00	1345
68.00	1572	148.00	12342	218.00	3530	308.00	473
69.00	139520	149.00	2504	220.00	359	310.00	644
70.00	1020	150.00	848	221.00	12318	314.00	1901
73.00	445	151.00	1338	222.00	4027	315.00	6837
74.00	17344	152.00	291	223.00	5724	316.00	2160
75.00	23200	153.00	3455	224.00	59184	321.00	1217
76.00	7114	154.00	2141	225.00	16350	323.00	11391
77.00	141376	155.00	5632	226.00	1819	324.00	1796
78.00	9524	156.00	6967	227.00	31520	327.00	2820
79.00	11544	157.00	1139	228.00	5261	328.00	1539
80.00	7837	158.00	2086	229.00	5411	332.00	1018
81.00	11205	159.00	1152	230.00	266	333.00	1217
82.00	2943	160.00	2731	231.00	2391	334.00	8222
83.00	2707	161.00	4610	233.00	244	335.00	2419
84.00	228	162.00	1591	234.00	1387	336.00	230
85.00	2282	163.00	396	235.00	2126	341.00	1596

Data File: \\Svecd04\DD\chem\smsd03.i\S3050412.b\DFTPP1.D

Date : 04-MAY-2012 07:53

Client ID: DFTPP1

Instrument: smsd03.i

Sample Info: 45777

Volume Injected (uL): 1.0

Operator: PEL

Column phase:

Column diameter: 2.00

Data File: DFTPP1.D

Spectrum: Avg. Scans 630-632 (7.46), Background Scan 625

Location of Maximum: 442.00

Number of points: 265

m/z	Y	m/z	Y	m/z	Y	m/z	Y
86.00	3939	164.00	219	236.00	1213	342.00	243
87.00	1371	165.00	4082	237.00	2060	346.00	2551
88.00	864	166.00	3359	239.00	1467	347.00	527
91.00	2670	167.00	22104	240.00	836	351.00	225
92.00	2808	168.00	11238	241.00	1466	352.00	2696
93.00	23712	169.00	2549	242.00	3110	353.00	2299
94.00	1671	170.00	542	243.00	3570	354.00	3367
95.00	568	171.00	1061	244.00	45280	355.00	746
96.00	361	172.00	1750	245.00	5531	365.00	20976
97.00	229	173.00	2634	246.00	11021	366.00	3154
98.00	18064	174.00	4087	247.00	1910	371.00	360
99.00	10797	175.00	8307	248.00	497	372.00	5035
100.00	914	176.00	2100	249.00	1727	373.00	1008
101.00	6063	177.00	4185	250.00	222	383.00	1214
103.00	1656	178.00	1198	251.00	385	384.00	408
104.00	4700	179.00	16105	253.00	1284	390.00	558
105.00	3719	180.00	9609	254.00	1435	402.00	1356
106.00	995	181.00	3549	255.00	243328	403.00	2254
107.00	51168	182.00	248	256.00	36408	404.00	759
108.00	6666	183.00	280	257.00	2777	405.00	231
109.00	1141	184.00	1603	258.00	20488	421.00	2250
110.00	71136	185.00	7474	259.00	2857	422.00	1911
111.00	12761	186.00	52640	264.00	247	423.00	14571
112.00	1274	187.00	16936	265.00	8706	424.00	3027
116.00	2829	188.00	1727	266.00	738	441.00	51440
117.00	62808	189.00	4677	270.00	222	442.00	314368
118.00	3265	190.00	630	271.00	858	443.00	61912
119.00	555	191.00	1433	272.00	744	444.00	5288
120.00	246	192.00	4827	273.00	8308	445.00	296
122.00	4058	193.00	5479	274.00	20616		
123.00	5185	194.00	1008	275.00	106328		
124.00	2556	195.00	934	276.00	13712		

DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 05/04/2012 08:11

Datafile Analyzed: //Svecd04/DD/chem/smsd03.i/S3050412.b/DFTPP1.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 05/07/2012 17:47

Datafile Analyzed: //Svecd04/DD/chem/smsd03.i/S3050412.b/DFTPP1.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 05/07/2012 18:09

Datafile Analyzed: //Svecd04/DD/chem/smsd03.i/S3050412.b/DFTPP1.D

PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3050412.b\8270CCV1.D
 Lab Smp Id: 45924 Client Smp ID: 8270CCV1
 Inj Date : 04-MAY-2012 08:13 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 45924
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3050412.b\8270bcs.m
 Meth Date : 07-May-2012 17:35 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 18:17 Cal File: AP9CAL4.D
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: 8270caln.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
2 Pyridine CAS #: 110-86-1									
2.278	2.278	(0.523)	79	531189	45.0000	48.5	80.00- 120.00	100.00	
2.278	2.278	(0.523)	52	201524			7.94- 67.94	37.94	
M 16 Cresols (Total) CAS #: 1319-77-3									
				873854	90.0000			(a)	
1 N-Nitrosodimethylamine CAS #: 62-75-9									
2.238	2.238	(0.514)	42	265840	45.0000	53.7	80.00- 120.00	100.00	
2.238	2.238	(0.514)	74	343781			99.32- 159.32	129.32	
2.236	2.238	(0.514)	44	9320			0.00- 33.51	3.51	
\$ 6 2-Fluorophenol (SURR) CAS #: 367-12-4									
3.279	3.279	(0.753)	112	764229	90.0000	90.7	80.00- 120.00	100.00	
3.279	3.279	(0.753)	64	490266			34.15- 94.15	64.15	
\$ 11 Phenol-d5 (SURR) CAS #: 4165-62-2									
4.040	4.040	(0.928)	99	1025820	90.0000	90.8	80.00- 120.00	100.00	
4.040	4.040	(0.928)	42	211756			0.00- 50.64	20.64	
4.040	4.040	(0.928)	71	585300			27.06- 87.06	57.06	
13 Phenol CAS #: 108-95-2									
4.051	4.051	(0.931)	94	573926	45.0000	44.8	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
13 Phenol (continued)									
4.051	4.051	(0.931)	65	233589			10.70- 70.70	40.70	
4.050	4.051	(0.930)	66	410860			41.59- 101.59	71.59	

10 Aniline CAS #: 62-53-3									
4.073	4.073	(0.936)	93	574606	45.0000	42.3	80.00- 120.00	100.00	
4.072	4.073	(0.936)	65	126770			0.00- 52.06	22.06	
4.073	4.073	(0.936)	66	241901			12.10- 72.10	42.10	

14 Bis(2-Chloroethyl)ether CAS #: 111-44-4									
4.117	4.117	(0.946)	93	366705	45.0000	45.5	80.00- 120.00	100.00	
4.117	4.117	(0.946)	63	261218			41.23- 101.23	71.23	
4.117	4.117	(0.946)	95	115429			1.48- 61.48	31.48	

15 2-Chlorophenol CAS #: 95-57-8									
4.179	4.179	(0.960)	128	381144	45.0000	45.2	80.00- 120.00	100.00	
4.178	4.179	(0.960)	64	205292			23.86- 83.86	53.86	
4.179	4.179	(0.960)	130	127490			3.45- 63.45	33.45	

17 1,3-Dichlorobenzene CAS #: 541-73-1									
4.306	4.306	(0.989)	146	474696	45.0000	45.9	80.00- 120.00	100.00	
4.306	4.306	(0.989)	148	312462			35.82- 95.82	65.82	
4.305	4.306	(0.989)	111	214447			15.18- 75.18	45.18	

* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.353	4.352	(1.000)	152	291525	40.0000		80.00- 120.00	100.00	
4.353	4.352	(1.000)	115	183388			31.12- 91.12	62.91	
4.353	4.352	(1.000)	150	489869			117.02- 177.02	168.04	

19 1,4-Dichlorobenzene CAS #: 106-46-7									
4.368	4.368	(1.003)	146	492577	45.0000	45.2	80.00- 120.00	100.00	
4.368	4.368	(1.003)	148	335325			38.08- 98.08	68.08	
4.367	4.368	(1.003)	111	219113			14.48- 74.48	44.48	

21 Benzyl alcohol CAS #: 100-51-6									
4.473	4.473	(1.028)	108	264739	45.0000	45.8	80.00- 120.00	100.00	
4.473	4.473	(1.028)	79	494155			156.66- 216.66	186.66	
4.473	4.473	(1.028)	77	347840			101.39- 161.39	131.39	

20 1,2-Dichlorobenzene CAS #: 95-50-1									
4.504	4.504	(1.035)	146	456454	45.0000	46.0	80.00- 120.00	100.00	
4.505	4.504	(1.035)	148	300858			35.91- 95.91	65.91	
4.504	4.504	(1.035)	111	210288			16.07- 76.07	46.07	

22 2-Methylphenol CAS #: 95-48-7									
4.573	4.573	(1.050)	107	343820	45.0000	45.0	80.00- 120.00	100.00	
4.573	4.573	(1.051)	108	378075			79.96- 139.96	109.96	
4.574	4.573	(1.051)	79	305461			58.84- 118.84	88.84	

23 2,2'-oxybis(1-chloropropane) CAS #: 108-60-1									
4.584	4.584	(1.053)	45	234071	45.0000	41.6	80.00- 120.00	100.00	
4.574	4.584	(1.051)	77	351031			119.97- 179.97	149.97	
4.584	4.584	(1.053)	121	127896			24.64- 84.64	54.64	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
====	=====	=====	=====	=====	=====	=====	=====	=====
28 4-Methylphenol					CAS #: 106-44-5			
4.711	4.711	(1.082)	107	530034	45.0000	48.0	80.00- 120.00	100.00
4.711	4.711	(1.082)	108	416998			48.67- 108.67	78.67
4.711	4.711	(1.082)	79	177448			3.48- 63.48	33.48

26 N-Nitrosodipropylamine					CAS #: 621-64-7			
4.707	4.707	(1.081)	70	420936	45.0000	49.0	80.00- 120.00	100.00
4.707	4.707	(1.081)	42	166882			9.65- 69.65	39.65
4.708	4.707	(1.082)	130	76821			0.00- 48.25	18.25

30 Hexachloroethane					CAS #: 67-72-1			
4.806	4.806	(1.104)	117	193133	45.0000	44.9	80.00- 120.00	100.00
4.807	4.806	(1.104)	201	241267			94.92- 154.92	124.92
4.807	4.806	(1.104)	199	147695			46.47- 106.47	76.47

\$ 31 Nitrobenzene-d5 (SURR)					CAS #: 4165-60-0			
4.851	4.851	(0.879)	82	621729	45.0000	48.6	80.00- 120.00	100.00
4.851	4.851	(0.880)	128	198012			1.85- 61.85	31.85
4.850	4.851	(0.879)	54	234351			7.69- 67.69	37.69

32 Nitrobenzene					CAS #: 98-95-3			
4.868	4.868	(0.883)	77	596565	45.0000	47.4	80.00- 120.00	100.00
4.868	4.868	(0.883)	123	189586			1.78- 61.78	31.78
4.868	4.868	(0.883)	65	93578			0.00- 45.69	15.69

34 Isophorone					CAS #: 78-59-1			
5.084	5.084	(0.922)	82	740914	45.0000	48.3	80.00- 120.00	100.00
5.084	5.084	(0.922)	138	111139			0.00- 45.00	15.00
5.084	5.084	(0.922)	95	68580			0.00- 39.26	9.26

35 2-Nitrophenol					CAS #: 88-75-5			
5.160	5.160	(0.936)	139	219638	45.0000	47.1	80.00- 120.00	100.00
5.159	5.160	(0.935)	65	165119			45.18- 105.18	75.18
5.159	5.160	(0.935)	109	123674			26.31- 86.31	56.31

36 2,4-Dimethylphenol					CAS #: 105-67-9			
5.198	5.198	(0.942)	122	324060	45.0000	45.2	80.00- 120.00	100.00
5.198	5.198	(0.942)	107	455990			110.71- 170.71	140.71
5.198	5.198	(0.942)	121	189250			28.40- 88.40	58.40

38 Bis(2-Chloroethoxy)methane					CAS #: 111-91-1			
5.278	5.278	(0.957)	93	481934	45.0000	46.3	80.00- 120.00	100.00
5.278	5.278	(0.957)	95	158480			2.88- 62.88	32.88
5.278	5.278	(0.957)	123	55457			0.00- 41.51	11.51

40 Benzoic Acid					CAS #: 65-85-0			
5.313	5.313	(0.963)	122	230450	45.0000	46.4	80.00- 120.00	100.00
5.312	5.313	(0.963)	105	333199			114.59- 174.59	144.59
5.311	5.313	(0.963)	77	329136			112.82- 172.82	142.82

41 2,4-Dichlorophenol					CAS #: 120-83-2			
5.389	5.389	(0.977)	162	409154	45.0000	48.3	80.00- 120.00	100.00
5.389	5.389	(0.977)	164	274130			37.00- 97.00	67.00

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
41 2,4-Dichlorophenol (continued)									
5.388	5.389	(0.977)	98	135901			3.22- 63.22	33.22	

42 1,2,4-Trichlorobenzene CAS #: 120-82-1									
5.461	5.461	(0.990)	180	502673	45.0000	47.5	80.00- 120.00	100.00	
5.461	5.461	(0.990)	182	482664			66.02- 126.02	96.02	
5.460	5.461	(0.990)	145	134050			0.00- 56.67	26.67	

* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.516	5.513	(1.000)	136	946773	40.0000		80.00- 120.00	100.00	
5.515	5.513	(1.000)	68	51792			0.00- 35.11	5.47	

44 Naphthalene CAS #: 91-20-3									
5.535	5.535	(1.004)	128	1134869	45.0000	46.7	80.00- 120.00	100.00	
5.535	5.535	(1.004)	129	124587			0.00- 40.98	10.98	
5.535	5.535	(1.004)	127	153150			0.00- 43.27	13.49	

45 4-Chloroaniline CAS #: 106-47-8									
5.589	5.589	(1.013)	127	450807	45.0000	44.1	80.00- 120.00	100.00	
5.589	5.589	(1.013)	129	141479			1.38- 61.38	31.38	
5.588	5.589	(1.013)	65	197334			13.77- 73.77	43.77	

48 Hexachlorobutadiene CAS #: 87-68-3									
5.652	5.652	(1.025)	225	405722	45.0000	50.2	80.00- 120.00	100.00	
5.651	5.652	(1.025)	223	250330			31.70- 91.70	61.70	
5.652	5.652	(1.025)	227	256071			33.11- 93.11	63.11	

51 4-Chloro-3-methylphenol CAS #: 59-50-7									
6.058	6.058	(1.098)	107	398157	45.0000	48.8	80.00- 120.00	100.00	
6.059	6.058	(1.099)	144	99996			0.00- 55.11	25.11	
6.059	6.058	(1.098)	142	291075			43.11- 103.11	73.11	

53 2-Methylnaphthalene CAS #: 91-57-6									
6.194	6.194	(1.123)	142	819139	45.0000	46.3	80.00- 120.00	100.00	
6.194	6.194	(1.123)	141	734400			59.66- 119.66	89.66	

54 1-Methylnaphthalene CAS #: 90-12-0									
6.291	6.291	(1.141)	142	756800	45.0000	47.1	80.00- 120.00	100.00	
6.291	6.291	(1.140)	141	682150			60.14- 120.14	90.14	

55 Hexachlorocyclopentadiene CAS #: 77-47-4									
6.350	6.350	(0.881)	237	495174	45.0000	46.4	80.00- 120.00	100.00	
6.350	6.350	(0.881)	235	303017			31.19- 91.19	61.19	
6.351	6.350	(0.881)	272	66899			0.00- 43.51	13.51	

57 2,4,6-Trichlorophenol CAS #: 88-06-2									
6.474	6.474	(0.898)	196	363955	45.0000	43.2	80.00- 120.00	100.00	
6.474	6.474	(0.898)	198	358185			68.41- 128.41	98.41	
6.474	6.474	(0.898)	200	121928			3.50- 63.50	33.50	

58 2,4,5-Trichlorophenol CAS #: 95-95-4									
6.514	6.514	(0.903)	196	412686	45.0000	53.0	80.00- 120.00	100.00	
6.514	6.514	(0.904)	198	379855			62.04- 122.04	92.04	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
58 2,4,5-Trichlorophenol (continued)									
6.513	6.514	(0.903)	97	221617			23.70-	83.70	53.70

\$ 59 2-Fluorobiphenyl (SURR) CAS #: 321-60-8									
6.550	6.550	(0.908)	172	1224979	45.0000	46.8	80.00-	120.00	100.00
6.550	6.550	(0.908)	171	426672			4.83-	64.83	34.83

62 2-Chloronaphthalene CAS #: 91-58-7									
6.667	6.667	(0.925)	162	913353	45.0000	46.0	80.00-	120.00	100.00
6.668	6.667	(0.925)	164	312951			4.26-	64.26	34.26
6.667	6.667	(0.925)	127	358156			9.21-	69.21	39.21

63 2-Nitroaniline CAS #: 88-74-4									
6.774	6.774	(0.940)	65	329940	45.0000	48.3	80.00-	120.00	100.00
6.774	6.774	(0.940)	92	194801			29.04-	89.04	59.04
6.775	6.774	(0.940)	138	264420			50.14-	110.14	80.14

65 Dimethylphthalate CAS #: 131-11-3									
6.948	6.948	(0.964)	163	1088844	45.0000	47.8	80.00-	120.00	100.00
6.949	6.948	(0.964)	194	63622			0.00-	35.84	5.84
6.948	6.948	(0.964)	164	115123			0.00-	40.55	10.57

68 Acenaphthylene CAS #: 208-96-8									
7.072	7.072	(0.981)	152	1379761	45.0000	47.0	80.00-	120.00	100.00
7.072	7.072	(0.981)	151	275252			0.00-	49.95	19.95
7.071	7.072	(0.981)	153	187069			0.00-	43.56	13.56

67 2,6-Dinitrotoluene CAS #: 606-20-2									
7.009	7.009	(0.972)	165	244823	45.0000	47.5	80.00-	120.00	100.00
7.008	7.009	(0.972)	89	196557			50.29-	110.29	80.29
7.008	7.009	(0.972)	63	190728			47.90-	107.90	77.90

69 3-Nitroaniline CAS #: 99-09-2									
7.179	7.179	(0.996)	138	213444	45.0000	46.6	80.00-	120.00	100.00
7.179	7.179	(0.996)	108	23579			0.00-	41.05	11.05
7.178	7.179	(0.996)	92	281059			101.68-	161.68	131.68

* 70 Acenaphthene-d10 CAS #: 15067-26-2									
7.210	7.208	(1.000)	164	676544	40.0000		80.00-	120.00	100.00
7.210	7.208	(1.000)	162	642444			66.36-	126.36	94.96
7.210	7.208	(1.000)	160	298191			14.03-	74.03	44.08

71 Acenaphthene CAS #: 83-32-9									
7.242	7.242	(1.004)	154	817353	45.0000	45.9	80.00-	120.00	100.00
7.242	7.242	(1.004)	153	897046			79.75-	139.75	109.75
7.242	7.242	(1.004)	152	432613			22.93-	82.93	52.93

72 2,4-Dinitrophenol CAS #: 51-28-5									
7.277	7.277	(1.009)	184	156853	45.0000	46.3	80.00-	120.00	100.00
7.276	7.277	(1.009)	63	131090			53.58-	113.58	83.58
7.277	7.277	(1.009)	154	108487			39.16-	99.16	69.16

74 4-Nitrophenol CAS #: 100-02-7									
7.365	7.365	(1.022)	109	252967	45.0000	50.9	80.00-	120.00	100.00

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
74 4-Nitrophenol (continued)									
7.366	7.365	(1.022)	139	172275			38.10- 98.10	68.10	
7.365	7.365	(1.022)	65	245693			67.12- 127.12	97.12	

75 Dibenzofuran CAS #: 132-64-9									
7.410	7.410	(1.028)	168	1390899	45.0000	48.0	80.00- 120.00	100.00	
7.410	7.410	(1.028)	139	565863			10.68- 70.68	40.68	

76 2,4-Dinitrotoluene CAS #: 121-14-2									
7.403	7.403	(1.027)	165	346260	45.0000	47.9	80.00- 120.00	100.00	
7.404	7.403	(1.027)	63	310700			59.73- 119.73	89.73	
7.403	7.403	(1.027)	89	370901			77.12- 137.12	107.12	

80 Diethylphthalate CAS #: 84-66-2									
7.637	7.637	(1.059)	149	1020052	45.0000	48.5	80.00- 120.00	100.00	
7.638	7.637	(1.059)	177	238145			0.00- 53.35	23.35	
7.637	7.637	(1.059)	150	134504			0.00- 43.19	13.19	

81 Fluorene CAS #: 86-73-7									
7.745	7.745	(1.074)	166	1244235	45.0000	49.6	80.00- 120.00	100.00	
7.745	7.745	(1.074)	165	1156824			62.97- 122.97	92.97	
7.745	7.745	(1.074)	167	177890			0.00- 44.30	14.30	

82 4-Chlorophenyl-phenylether CAS #: 7005-72-3									
7.744	7.744	(1.074)	204	738517	45.0000	49.1	80.00- 120.00	100.00	
7.744	7.744	(1.074)	206	253421			4.31- 64.31	34.31	
7.743	7.744	(1.074)	141	406013			24.98- 84.98	54.98	

84 4-Nitroaniline CAS #: 100-01-6									
7.782	7.782	(1.079)	138	172449	45.0000	43.5	80.00- 120.00	100.00	
7.781	7.782	(1.079)	92	119828			39.49- 99.49	69.49	
7.781	7.782	(1.079)	108	290656			138.55- 198.55	168.55	

85 4,6-Dinitro-2-methylphenol CAS #: 534-52-1									
7.805	7.805	(0.901)	198	256510	45.0000	45.0	80.00- 120.00	100.00	
7.803	7.805	(0.901)	51	83103			2.40- 62.40	32.40	
7.804	7.805	(0.901)	105	92752			6.16- 66.16	36.16	

86 N-Nitrosodiphenylamine CAS #: 86-30-6									
7.863	7.863	(0.908)	169	702934	45.0000	42.6	80.00- 120.00	100.00	
7.863	7.863	(0.908)	168	462757			35.83- 95.83	65.83	
7.863	7.863	(0.908)	167	251943			5.84- 65.84	35.84	

87 1,2-Diphenylhydrazine CAS #: 122-66-7									
7.900	7.900	(1.096)	77	1176876	45.0000	48.6	80.00- 120.00	100.00	
7.900	7.900	(1.096)	105	149833			0.00- 42.73	12.73	
7.901	7.900	(1.096)	182	301438			0.00- 55.61	25.61	

\$ 88 2,4,6-Tribromophenol (SURR) CAS #: 118-79-6									
7.987	7.987	(1.108)	330	463577	90.0000	98.1	80.00- 120.00	100.00	
7.987	7.987	(1.108)	332	447467			66.52- 126.52	96.52	
7.985	7.987	(1.107)	141	187962			10.55- 70.55	40.55	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
====	=====	=====	=====	=====	=====	=====	=====	=====
93 4-Bromophenylphenylether					CAS #: 101-55-3			
8.222	8.222	(0.949)	248	434243	45.0000	45.4	80.00- 120.00	100.00
8.223	8.222	(0.949)	250	419710			66.65- 126.65	96.65
8.221	8.222	(0.949)	141	279561			34.38- 94.38	64.38
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94 Hexachlorobenzene					CAS #: 118-74-1			
8.290	8.290	(0.957)	284	493075	45.0000	44.8	80.00- 120.00	100.00
8.289	8.290	(0.957)	142	161256			2.70- 62.70	32.70
8.290	8.290	(0.957)	249	156154			1.67- 61.67	31.67
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96 Pentachlorophenol					CAS #: 87-86-5			
8.487	8.487	(0.979)	266	314056	45.0000	48.6	80.00- 120.00	100.00
8.486	8.487	(0.979)	264	198954			33.35- 93.35	63.35
8.487	8.487	(0.979)	268	201994			34.32- 94.32	64.32
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* 100 Phenanthrene-d10					CAS #: 1517-22-2			
8.665	8.665	(1.000)	188	1308712	40.0000		80.00- 120.00	100.00
8.664	8.665	(1.000)	94	77764			0.00- 36.25	5.94
8.664	8.665	(1.000)	80	94302			0.00- 37.67	7.21
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101 Phenanthrene					CAS #: 85-01-8			
8.688	8.688	(1.003)	178	1554109	45.0000	46.1	80.00- 120.00	100.00
8.688	8.688	(1.003)	179	248358			0.00- 45.98	15.98
8.688	8.688	(1.003)	176	315647			0.00- 50.31	20.31
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103 Anthracene					CAS #: 120-12-7			
8.738	8.738	(1.008)	178	1555219	45.0000	46.3	80.00- 120.00	100.00
8.738	8.738	(1.008)	179	250540			0.00- 46.11	16.11
8.738	8.738	(1.008)	176	303971			0.00- 49.55	19.55
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104 Carbazole					CAS #: 86-74-8			
8.900	8.900	(1.027)	167	1268871	45.0000	45.4	80.00- 120.00	100.00
8.900	8.900	(1.027)	139	174168			0.00- 43.73	13.73
8.899	8.900	(1.027)	83	72353			0.00- 35.70	5.70
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105 Di-n-butylphthalate					CAS #: 84-74-2			
9.235	9.235	(1.066)	149	1672692	45.0000	47.4	80.00- 120.00	100.00
9.235	9.235	(1.066)	150	169257			0.00- 40.12	10.12
9.234	9.235	(1.066)	104	139241			0.00- 38.32	8.32
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109 Fluoranthene					CAS #: 206-44-0			
9.856	9.856	(1.137)	202	1820720	45.0000	47.1	80.00- 120.00	100.00
9.855	9.856	(1.137)	101	115474			0.00- 36.34	6.34
9.855	9.856	(1.137)	203	332043			0.00- 48.24	18.24
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111 Pyrene					CAS #: 129-00-0			
10.079	10.079	(0.895)	202	1981225	45.0000	43.4	80.00- 120.00	100.00
10.079	10.079	(0.895)	200	444481			0.00- 52.43	22.43
10.079	10.079	(0.895)	203	383534			0.00- 49.36	19.36
-----					-----			
\$ 112 Terphenyl-d14 (SURR)					CAS #: 1718-51-0			
10.228	10.228	(0.908)	244	1919221	45.0000	44.3	80.00- 120.00	100.00
10.227	10.228	(0.908)	122	115204			0.00- 36.00	6.00

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 112 Terphenyl-d14 (SURR) (continued)									
10.228	10.228	(0.908)	212	156635			0.00- 38.16	8.16	

118 Butylbenzylphthalate					CAS #: 85-68-7				
10.705	10.705	(0.950)	149	860426	45.0000	43.6	80.00- 120.00	100.00	
10.705	10.705	(0.950)	91	699617			51.31- 111.31	81.31	
10.706	10.705	(0.951)	206	220275			0.00- 55.60	25.60	

120 Benzo[a]anthracene					CAS #: 56-55-3				
11.253	11.253	(0.999)	228	2504865	45.0000	43.5	80.00- 120.00	100.00	
11.252	11.253	(0.999)	229	535266			0.00- 51.37	21.37	
11.253	11.253	(0.999)	226	710685			0.00- 58.37	28.37	

* 121 Chrysene-d12					CAS #: 1719-03-5				
11.263	11.259	(1.000)	240	2294855	40.0000		80.00- 120.00	100.00	
11.261	11.259	(1.000)	120	136777			0.00- 34.90	5.96	
11.264	11.259	(1.000)	236	626238			0.00- 56.56	27.29	

123 Chrysene					CAS #: 218-01-9				
11.289	11.289	(1.002)	228	2164541	45.0000	42.8	80.00- 120.00	100.00	
11.289	11.289	(1.002)	226	683184			1.56- 61.56	31.56	
11.289	11.289	(1.002)	229	463090			0.00- 51.39	21.39	

124 Bis-2-Ethylhexylphthalate					CAS #: 117-81-7				
11.260	11.260	(1.000)	149	1616712	45.0000	47.4	80.00- 120.00	100.00	
11.260	11.260	(1.000)	167	512639			1.71- 61.71	31.71	
11.261	11.260	(1.000)	279	155441			0.00- 39.61	9.61	

125 Di-n-octylphthalate					CAS #: 117-84-0				
11.859	11.859	(0.943)	149	1988872	45.0000	48.7	80.00- 120.00	100.00	
11.859	11.859	(0.943)	167	34858			0.00- 31.75	1.75	
11.858	11.859	(0.943)	43	172503			0.00- 38.67	8.67	

127 Benzo[b]fluoranthene					CAS #: 205-99-2				
12.239	12.239	(0.973)	252	2479048	45.0000	49.2	80.00- 120.00	100.00	
12.239	12.239	(0.973)	253	579159			0.00- 53.36	23.36	
12.237	12.239	(0.973)	125	110838			0.00- 34.47	4.47	

128 Benzo[k]fluoranthene					CAS #: 207-08-9				
12.263	12.263	(0.975)	252	2362525	45.0000	46.7	80.00- 120.00	100.00	
12.263	12.263	(0.975)	253	565163			0.00- 53.92	23.92	
12.262	12.263	(0.975)	125	111588			0.00- 34.72	4.72	

129 Benzo[a]pyrene					CAS #: 50-32-8				
12.527	12.527	(0.996)	252	2308282	45.0000	46.9	80.00- 120.00	100.00	
12.527	12.527	(0.996)	253	539497			0.00- 53.37	23.37	
12.526	12.527	(0.996)	125	115397			0.00- 35.00	5.00	

* 130 Perylene-d12					CAS #: 1520-96-3				
12.578	12.576	(1.000)	264	1894847	40.0000		80.00- 120.00	100.00	
12.578	12.576	(1.000)	260	473979			0.00- 54.67	25.01	
12.578	12.576	(1.000)	265	444350			0.00- 53.09	23.45	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	=====	=====	=====	=====	=====	=====	=====
133 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5				
13.614	13.614	(1.082)	276	2843078	45.0000	46.4	80.00- 120.00	100.00	
13.614	13.614	(1.082)	138	324792			0.00- 41.42	11.42	
13.614	13.614	(1.082)	277	763491			0.00- 56.85	26.85	

134 Dibenz[a,h]anthracene					CAS #: 53-70-3				
13.619	13.619	(1.083)	278	2495584	45.0000	46.6	80.00- 120.00	100.00	
13.617	13.619	(1.083)	139	179024			0.00- 37.17	7.17	
13.619	13.619	(1.083)	279	619087			0.00- 54.81	24.81	

135 Benzo[g,h,i]perylene					CAS #: 191-24-2				
13.908	13.908	(1.106)	276	2070950	45.0000	44.2	80.00- 120.00	100.00	
13.907	13.908	(1.106)	138	186570			0.00- 39.01	9.01	
13.907	13.908	(1.106)	277	519433			0.00- 55.08	25.08	

QC Flag Legend

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

Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

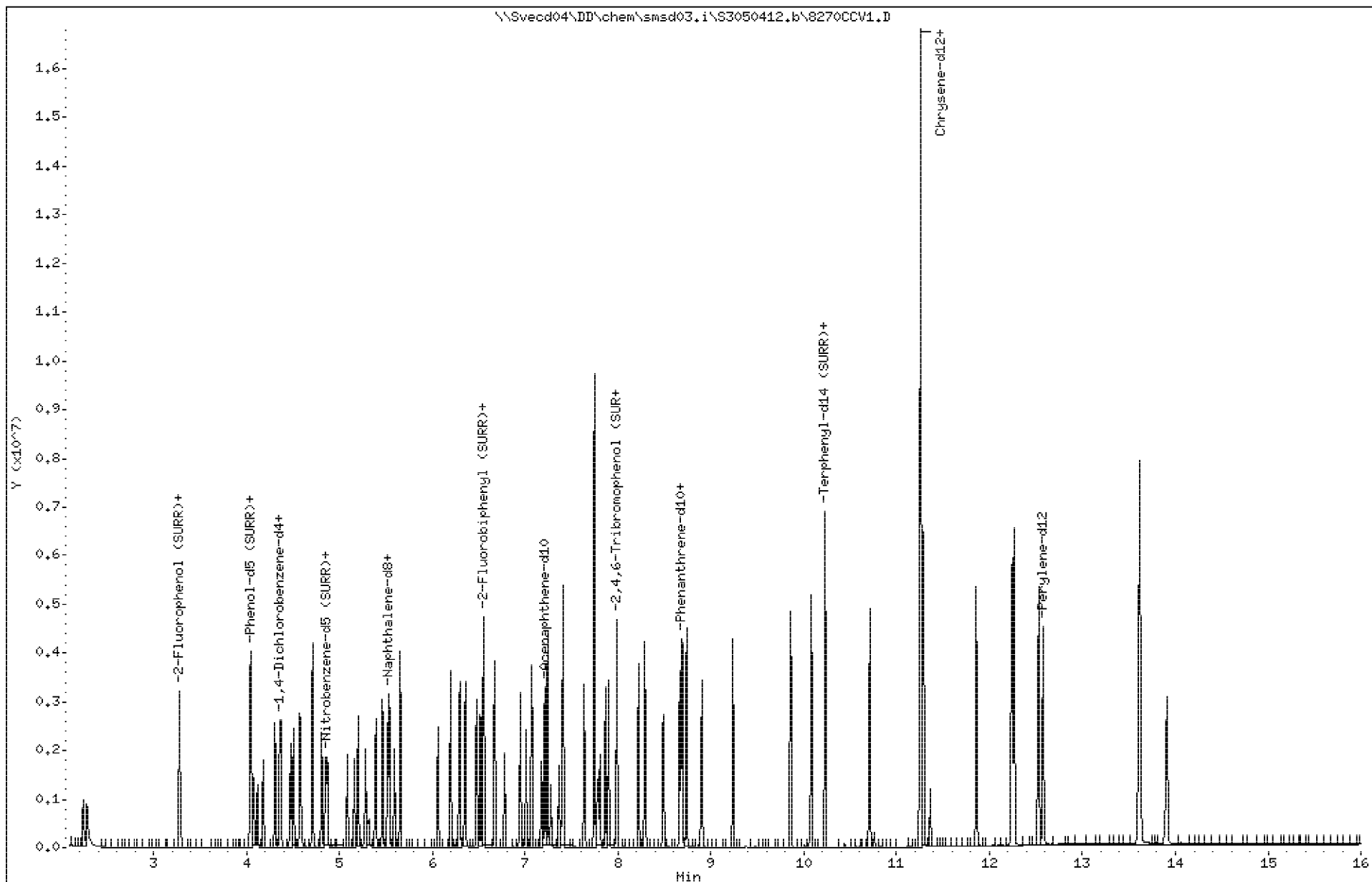
Sample Info: 45924

Purge Volume: 1000.0

Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

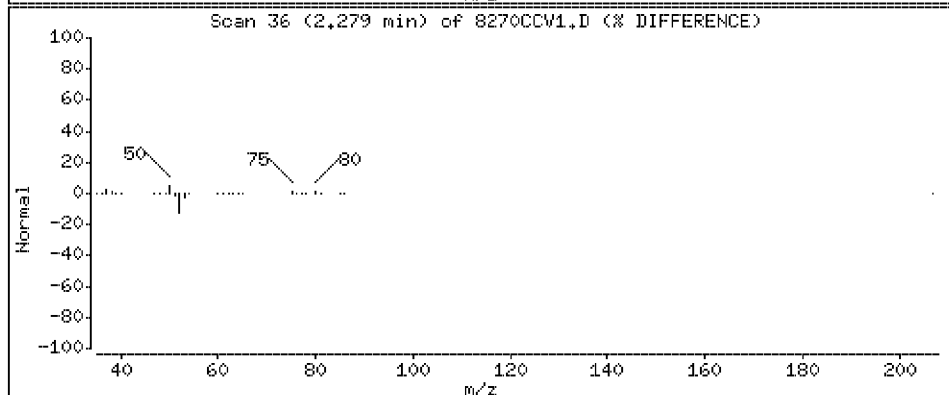
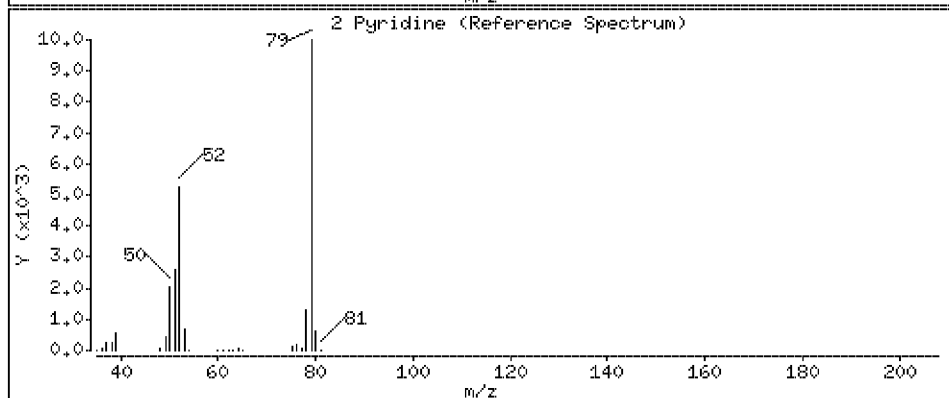
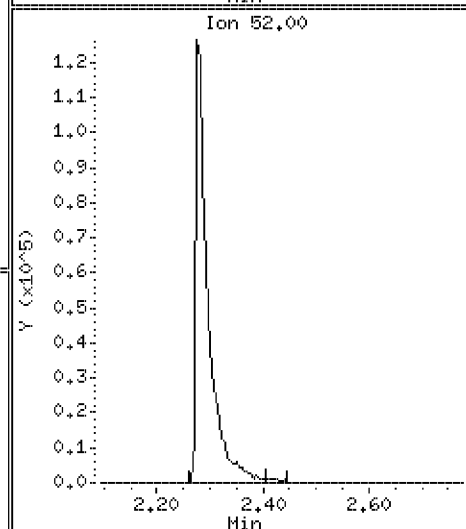
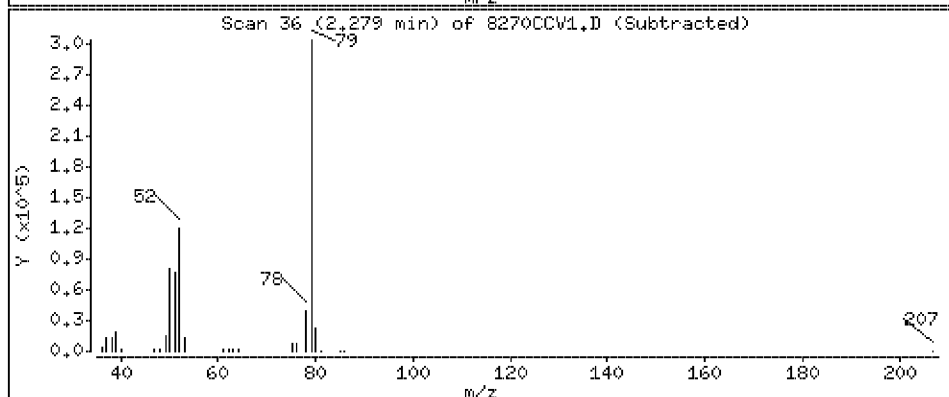
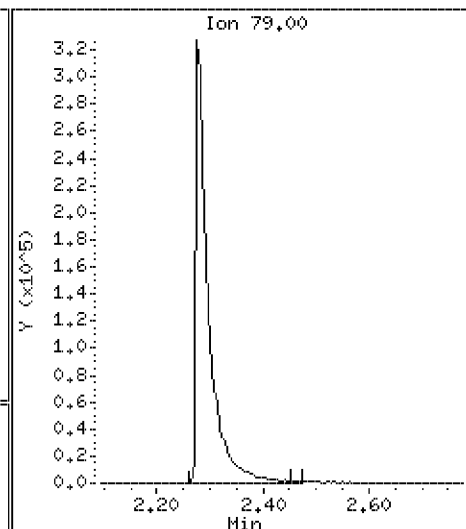
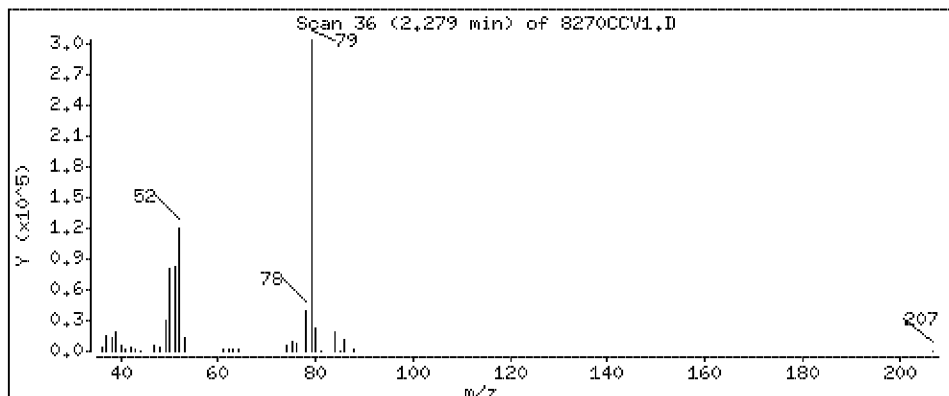
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

2 Pyridine

Concentration: 48.5 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

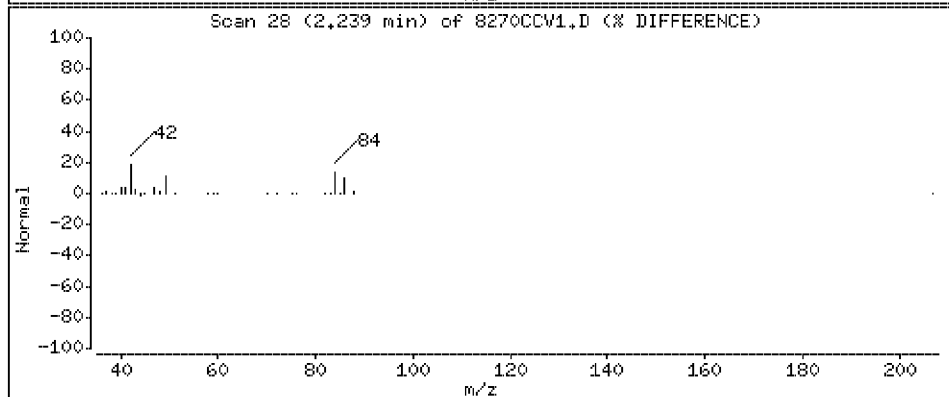
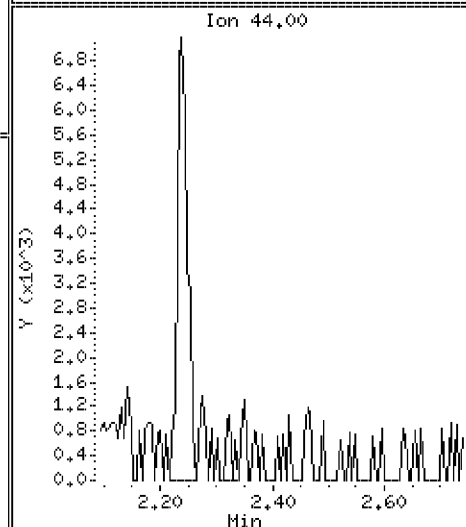
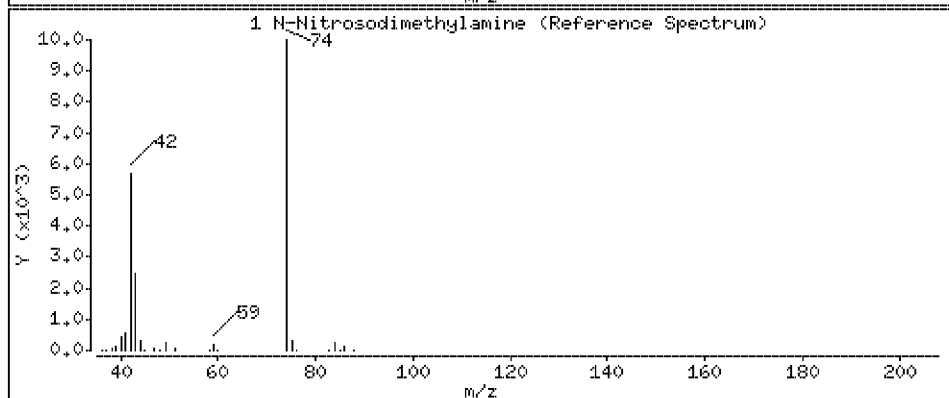
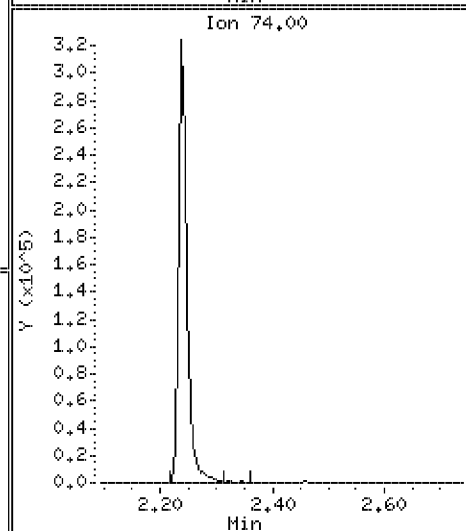
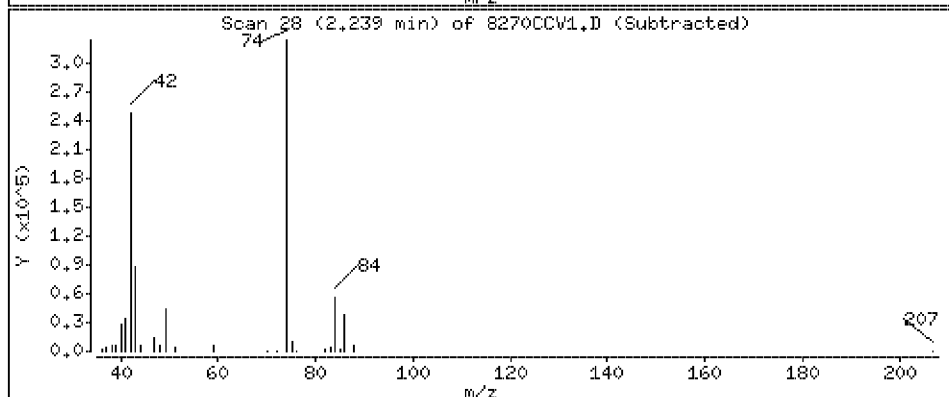
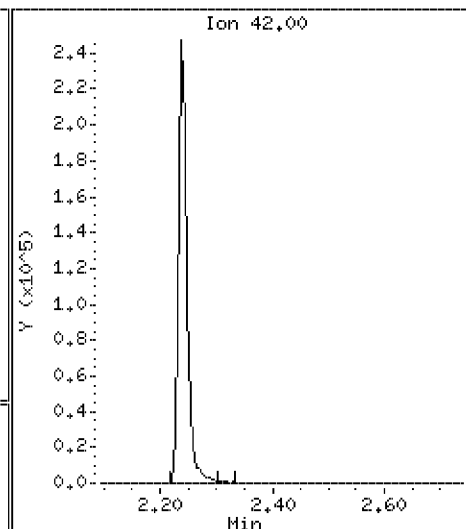
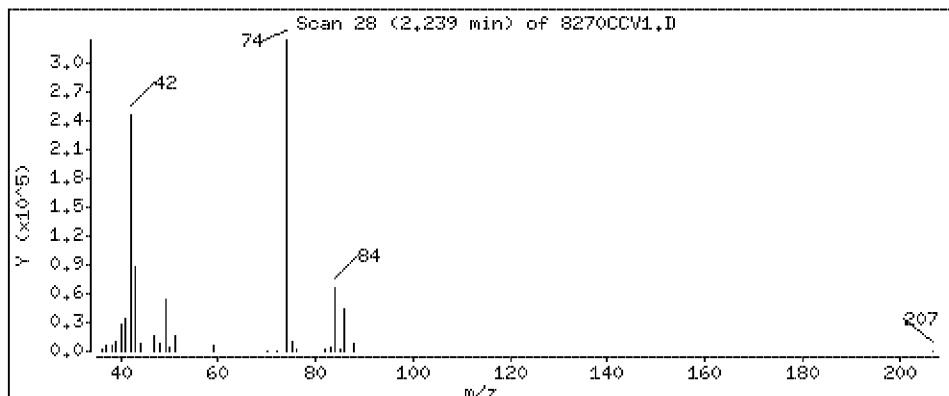
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

1 N-Nitrosodimethylamine

Concentration: 53.7 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

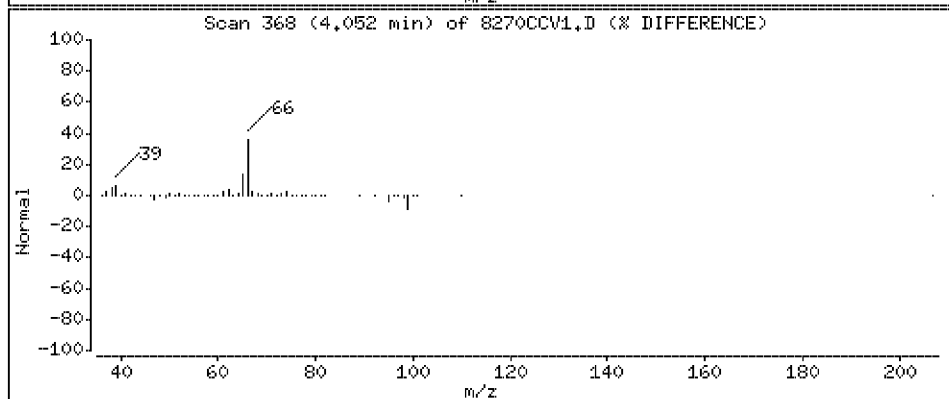
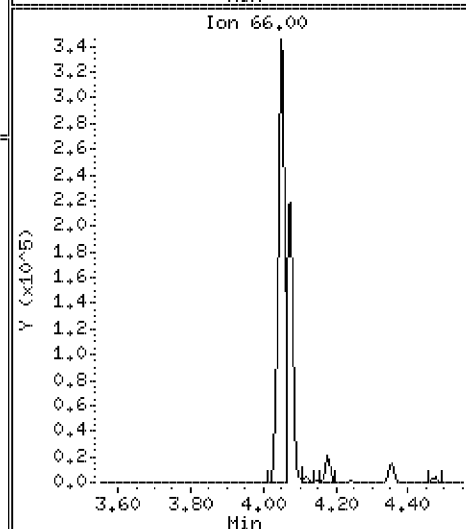
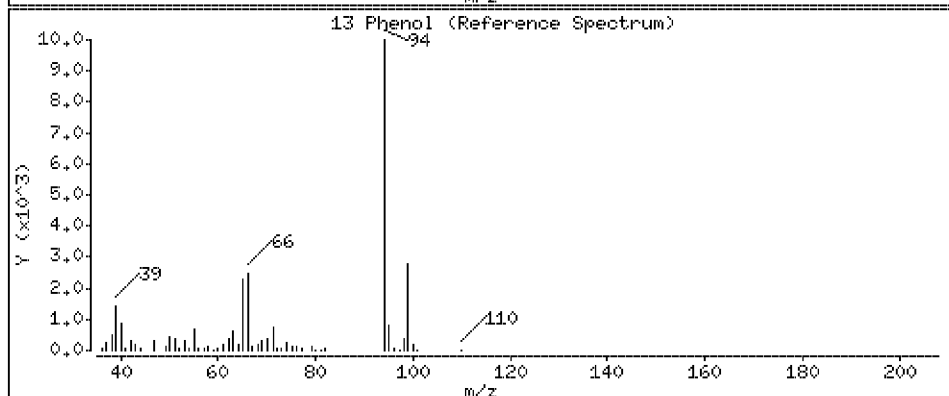
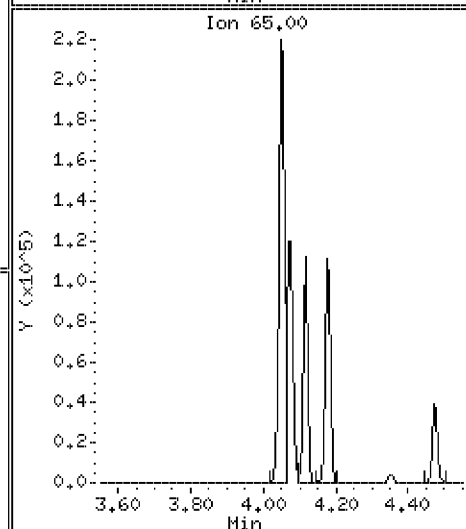
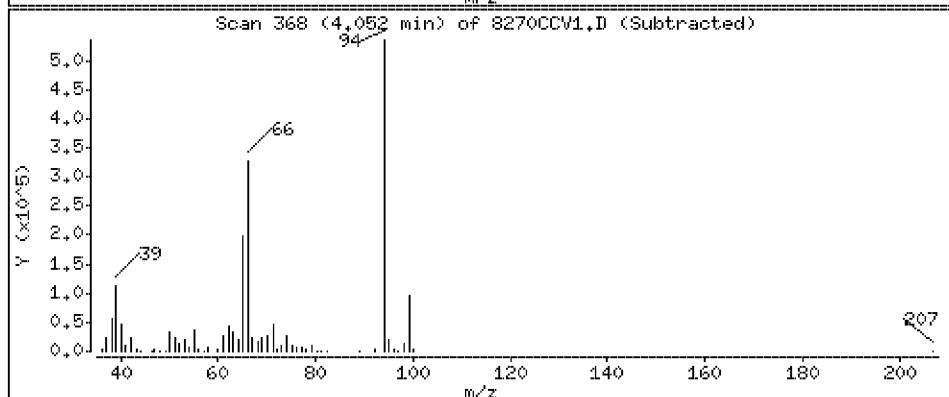
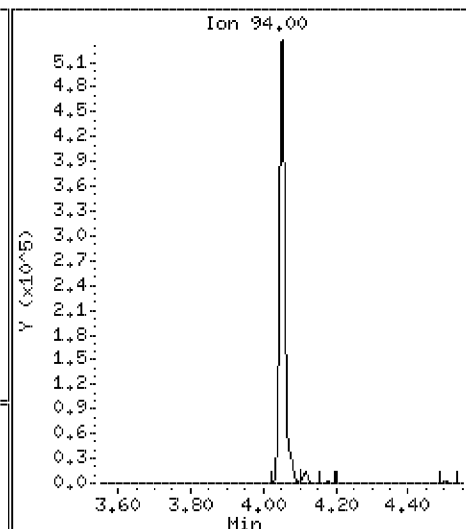
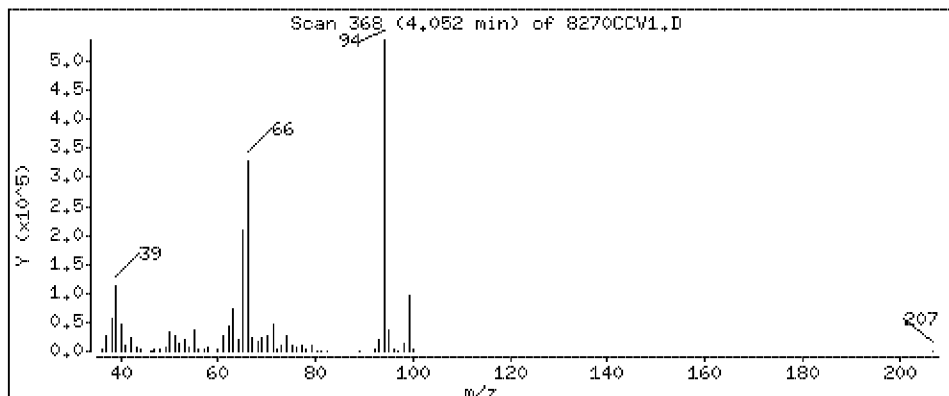
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

13 Phenol

Concentration: 44.8 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

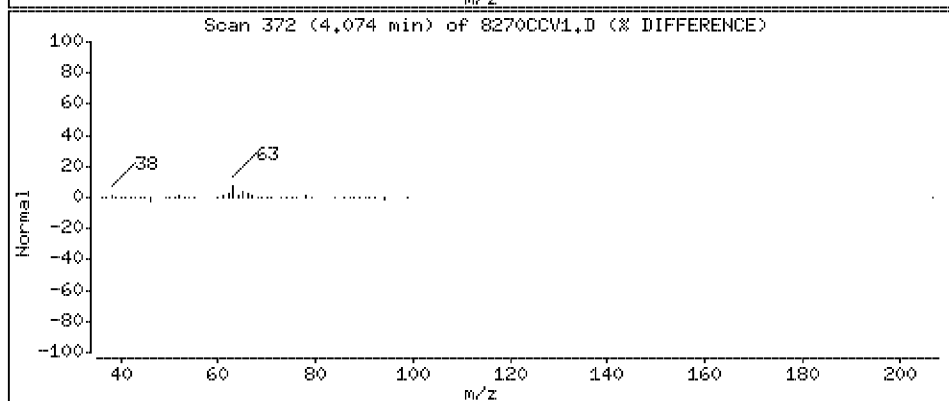
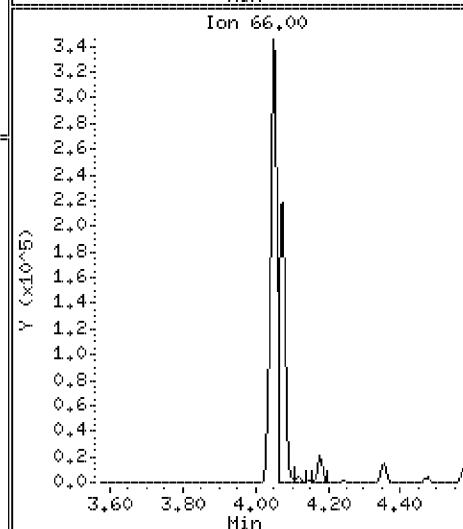
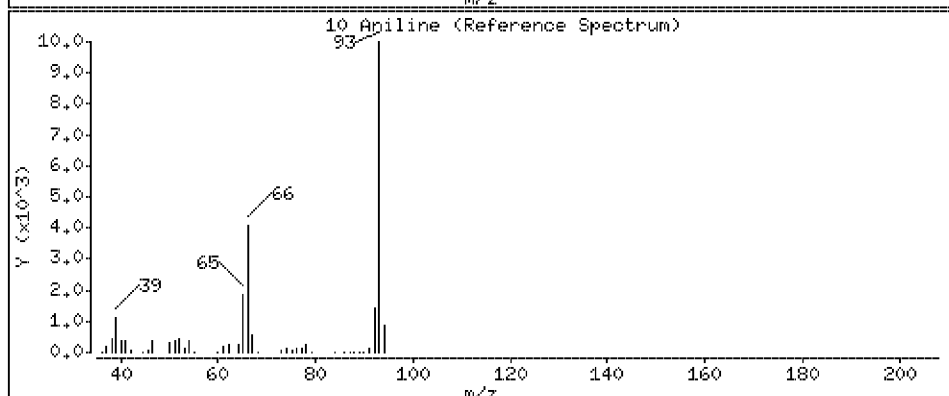
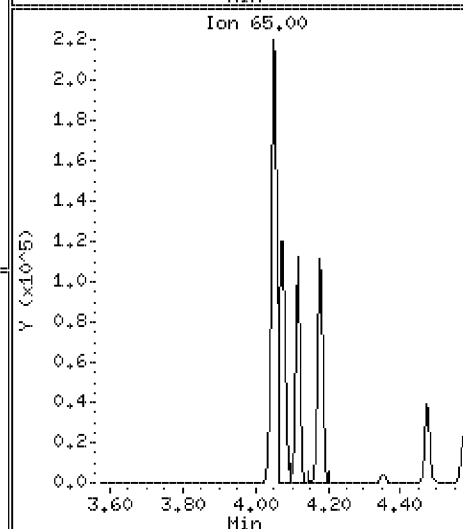
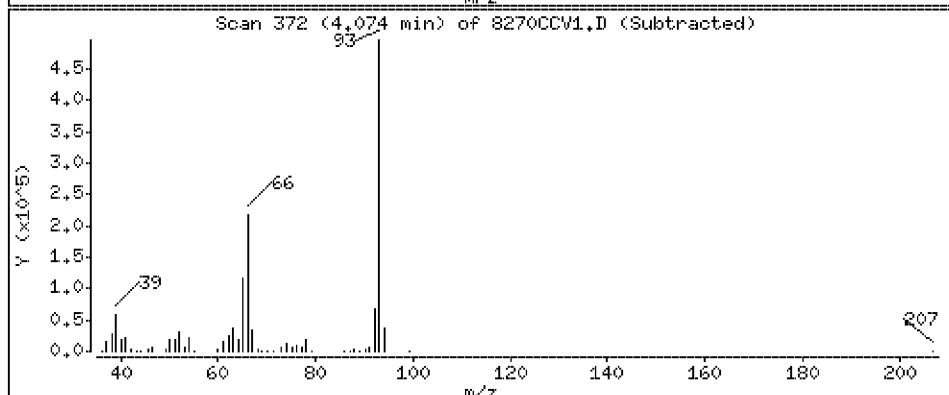
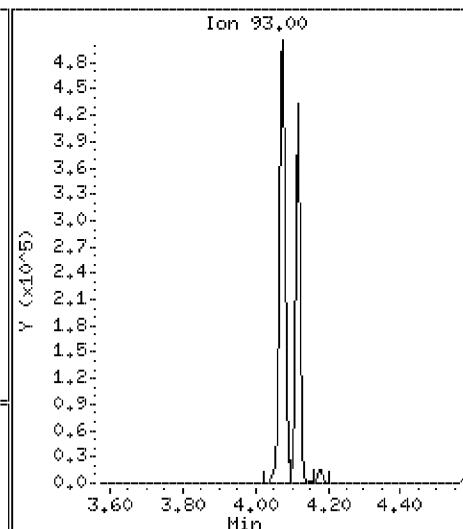
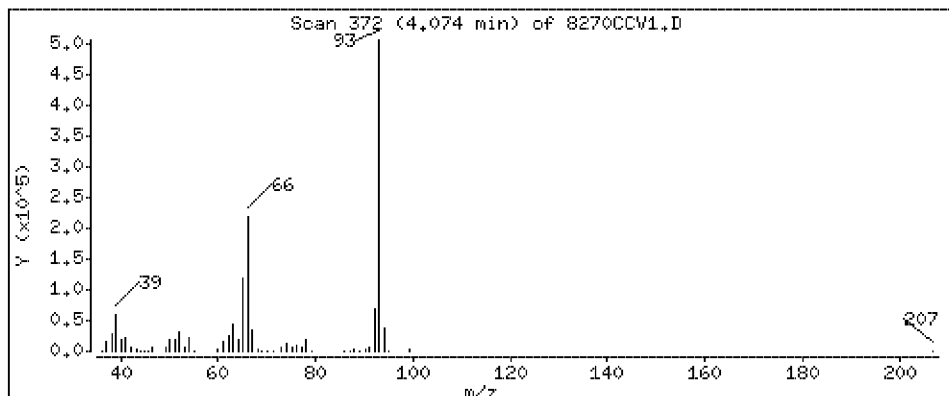
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

10 Aniline

Concentration: 42.3 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

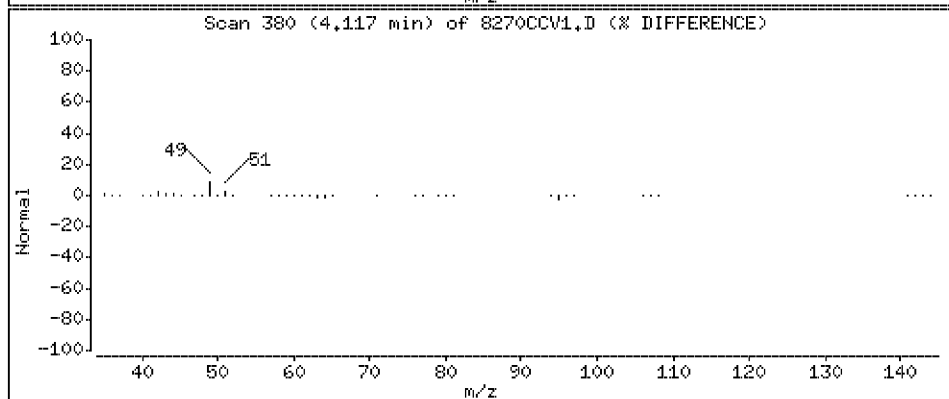
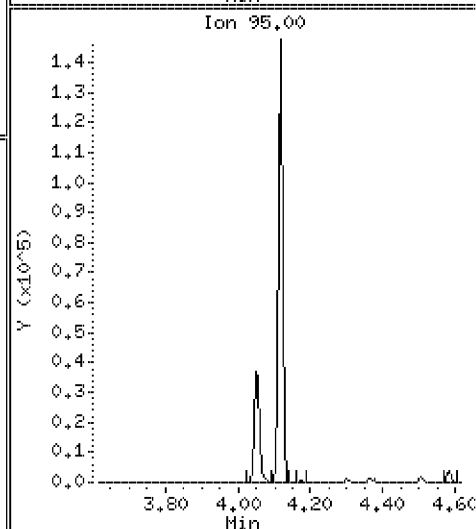
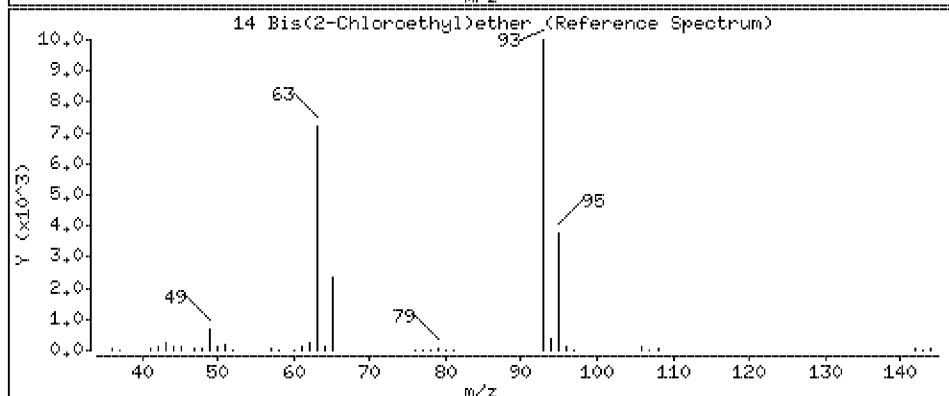
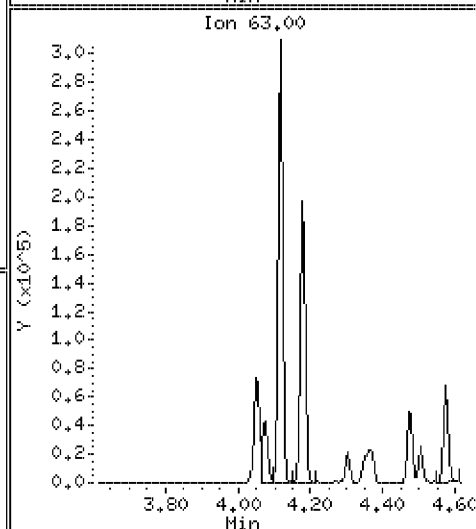
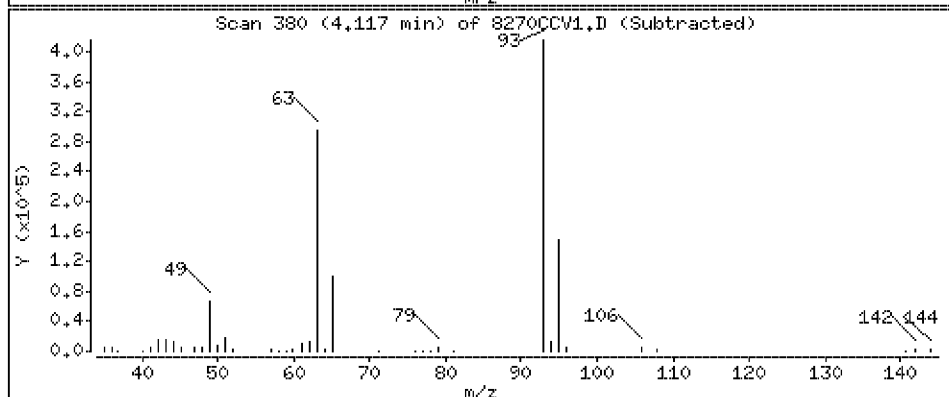
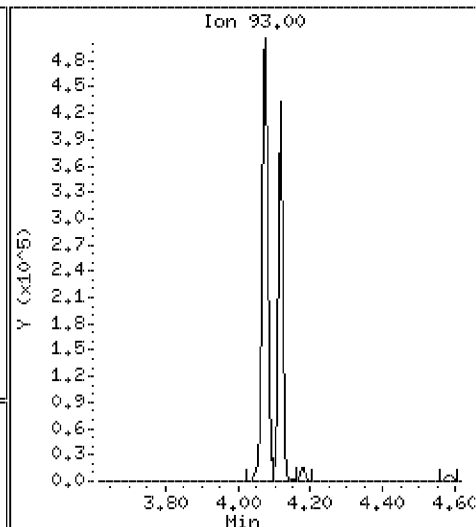
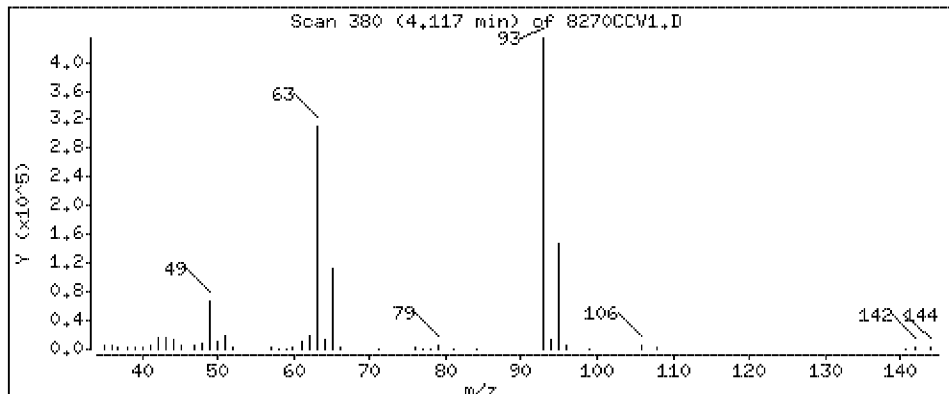
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

14 Bis(2-Chloroethyl)ether

Concentration: 45.5 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

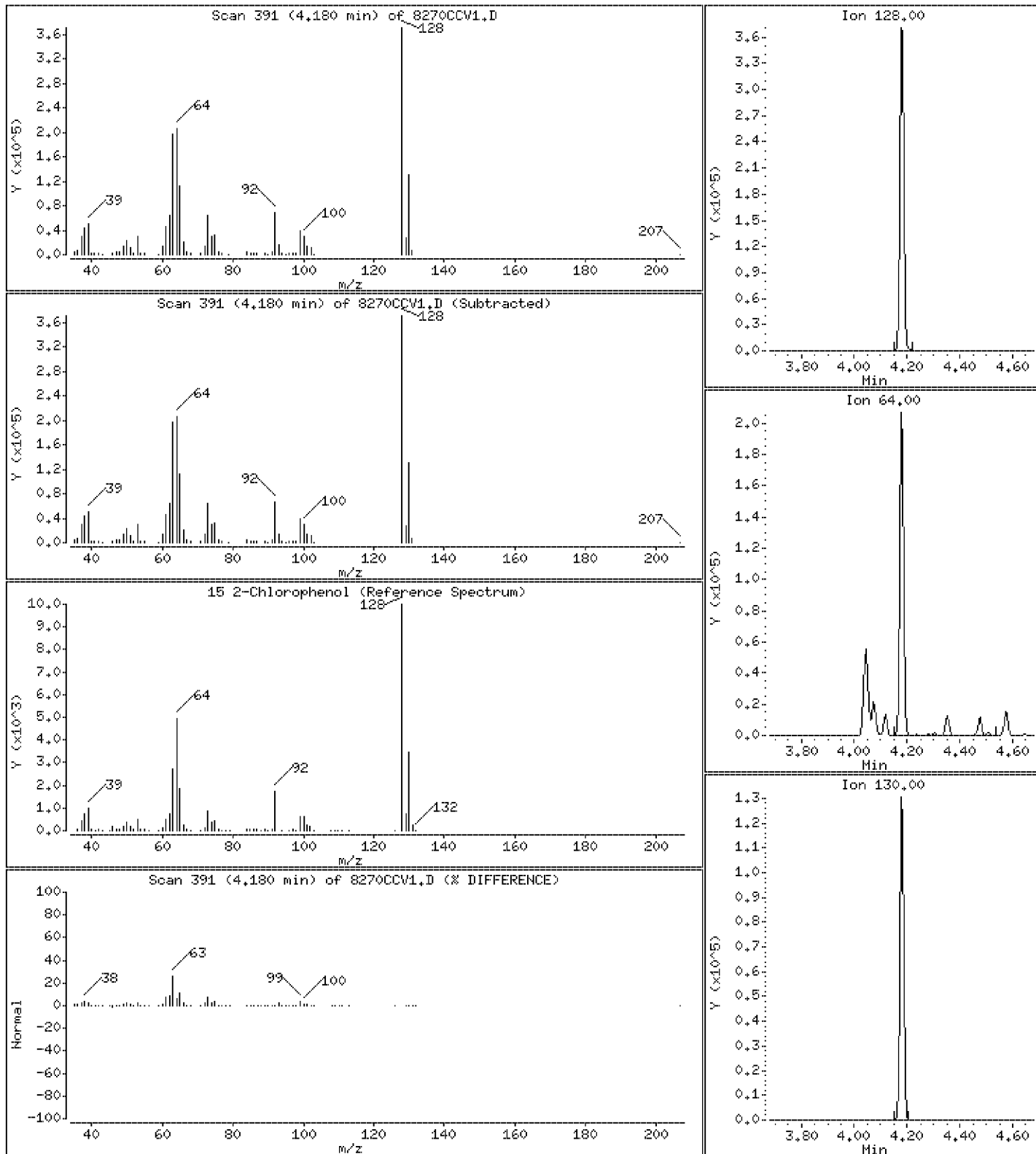
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

15 2-Chlorophenol

Concentration: 45.2 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

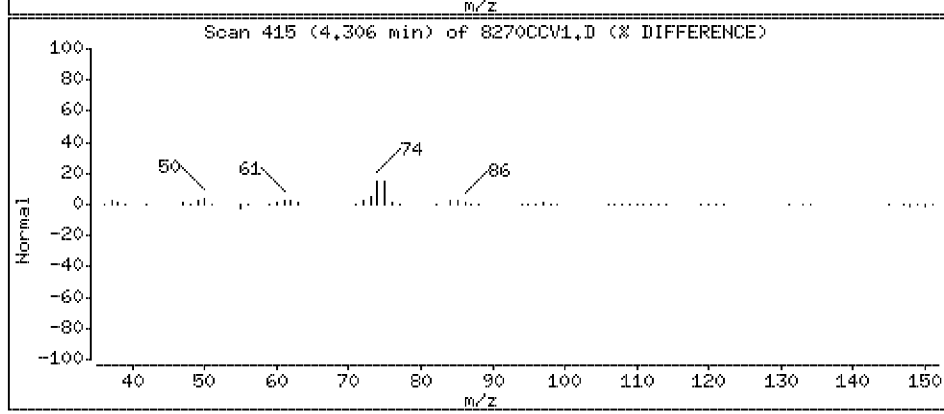
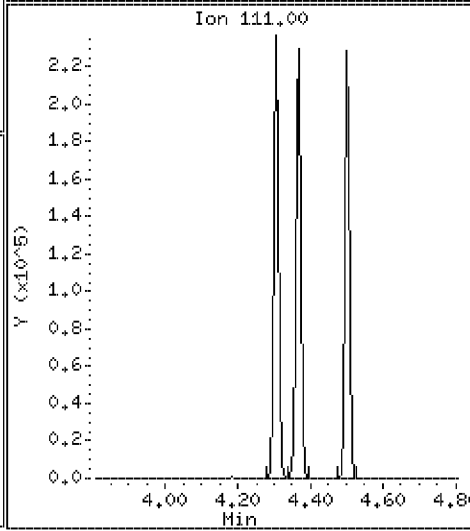
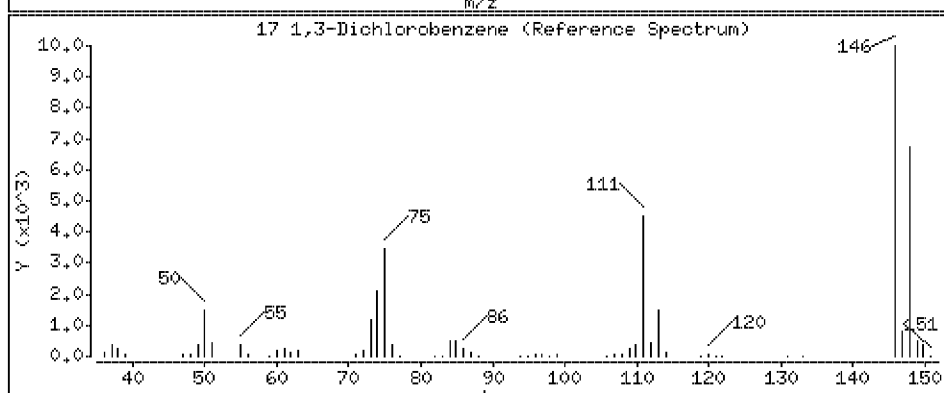
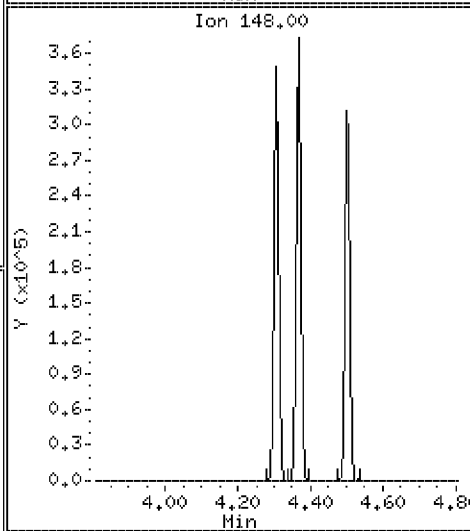
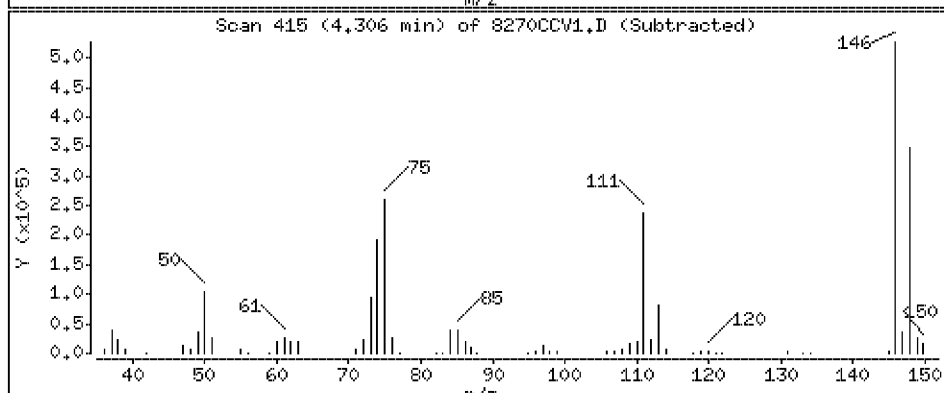
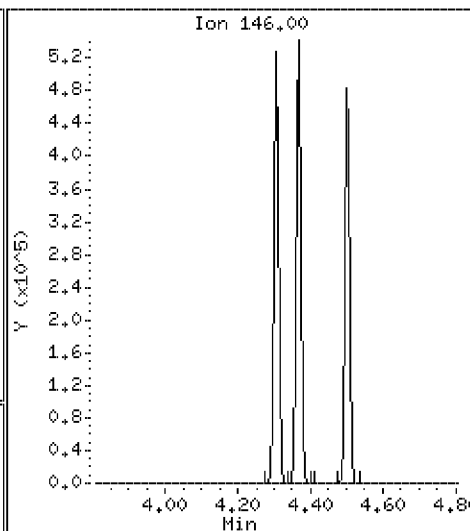
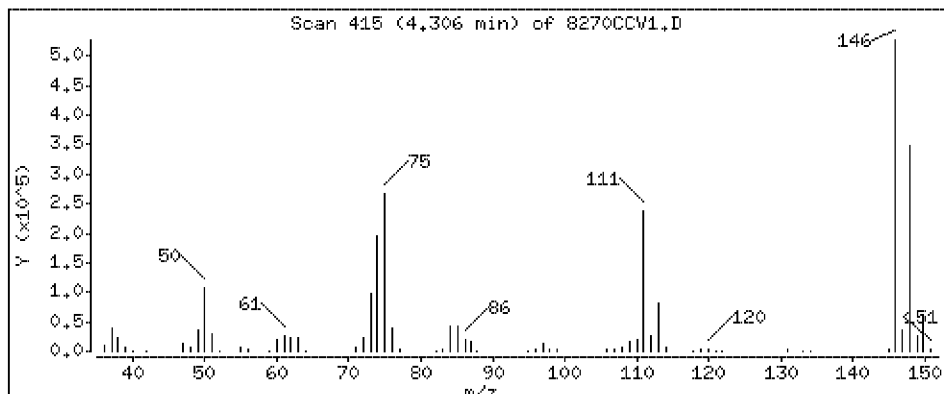
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

17 1,3-Dichlorobenzene

Concentration: 45.9 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

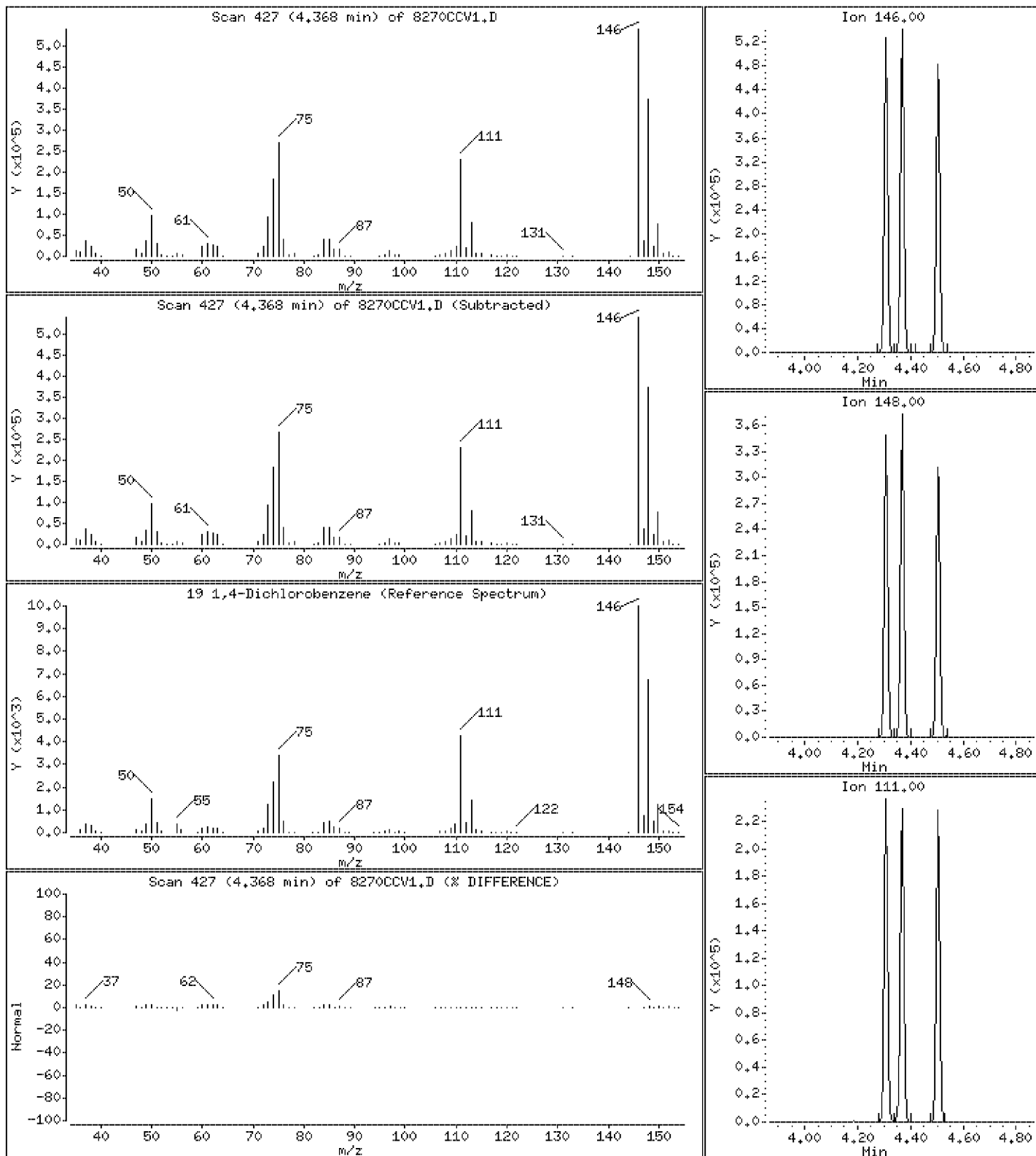
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

19 1,4-Dichlorobenzene

Concentration: 45.2 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

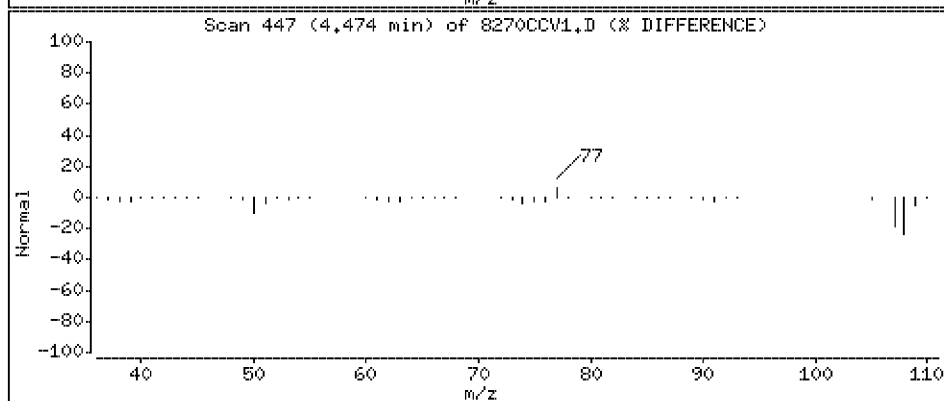
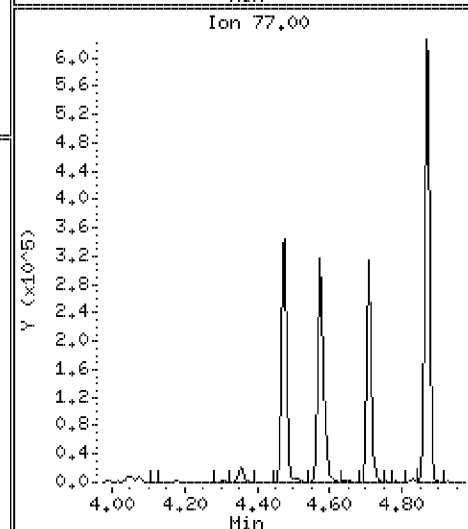
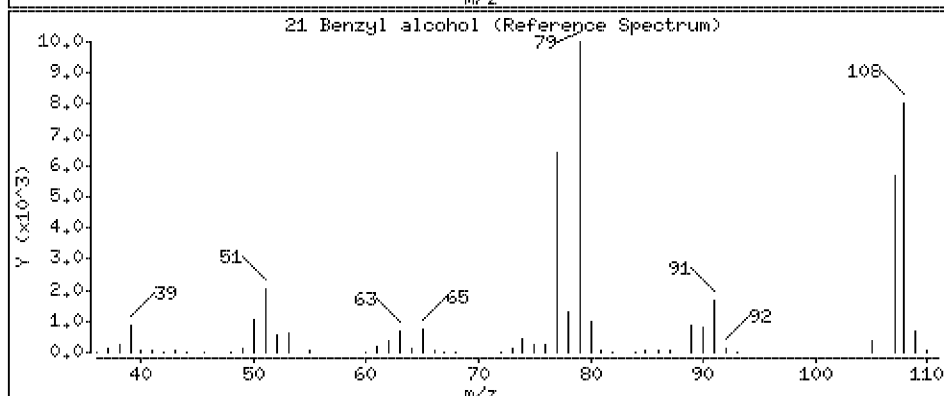
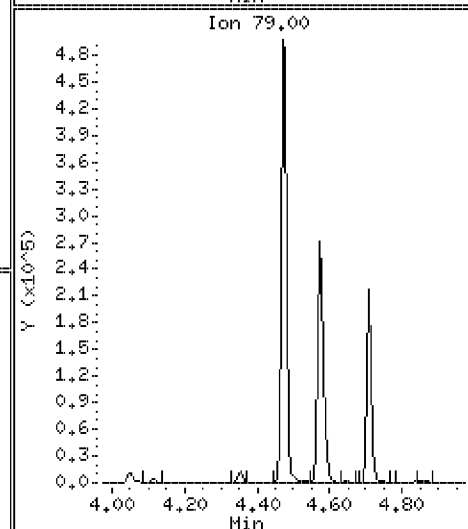
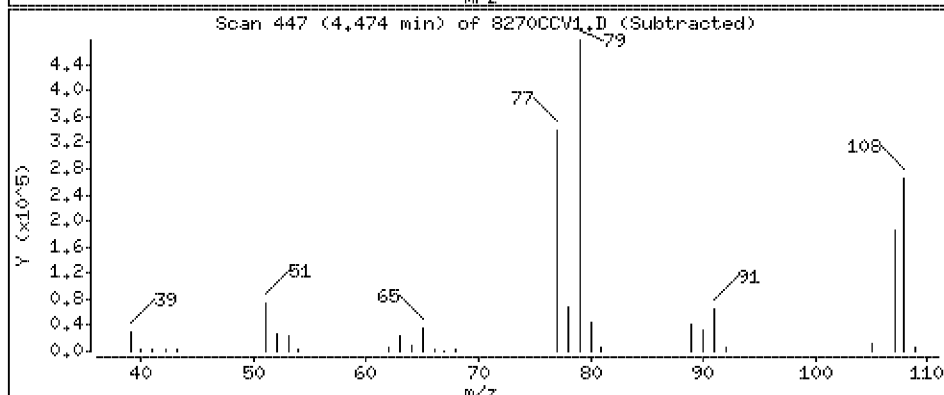
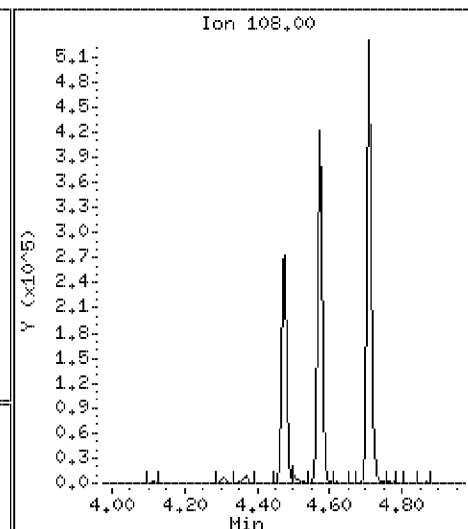
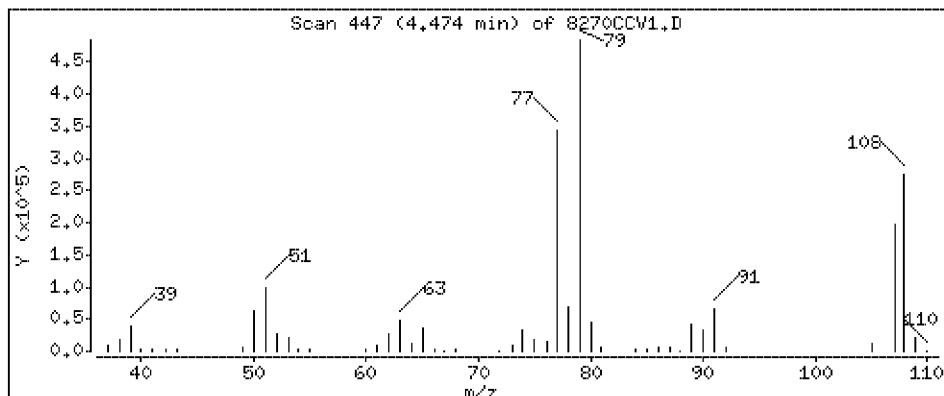
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

21 Benzyl alcohol

Concentration: 45.8 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

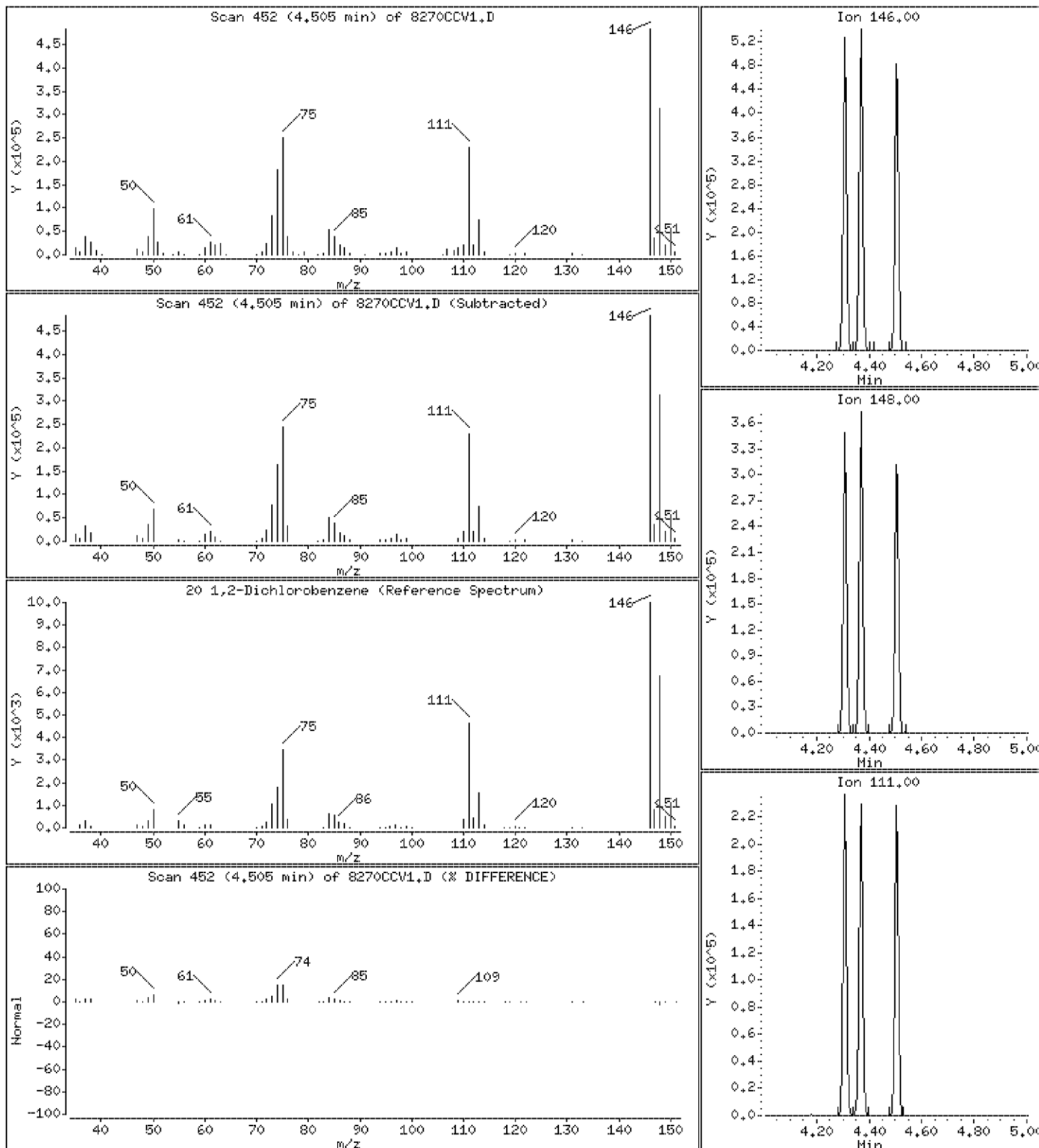
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

20 1,2-Dichlorobenzene

Concentration: 46.0 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

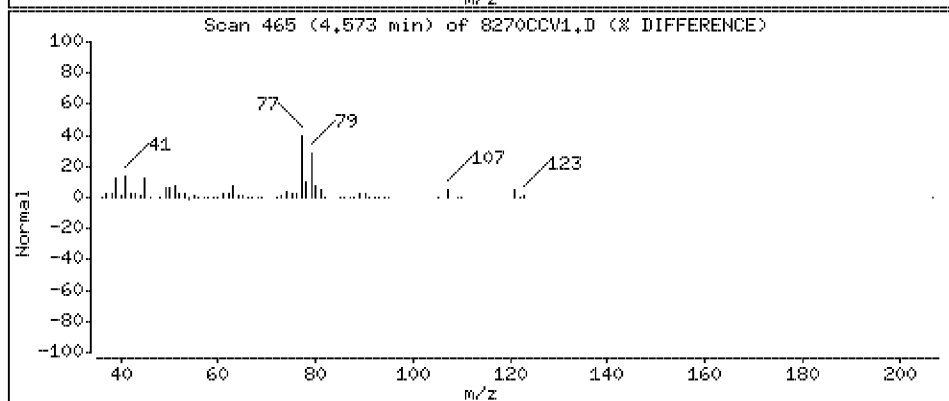
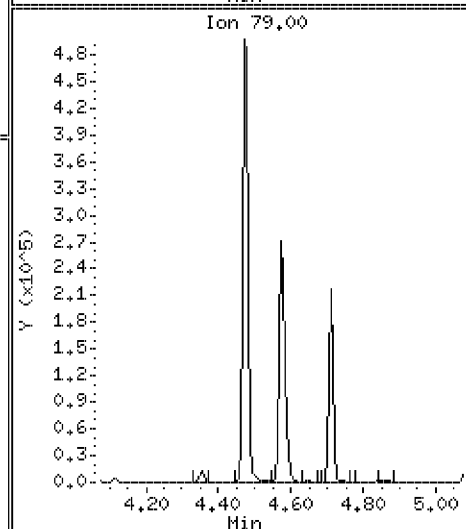
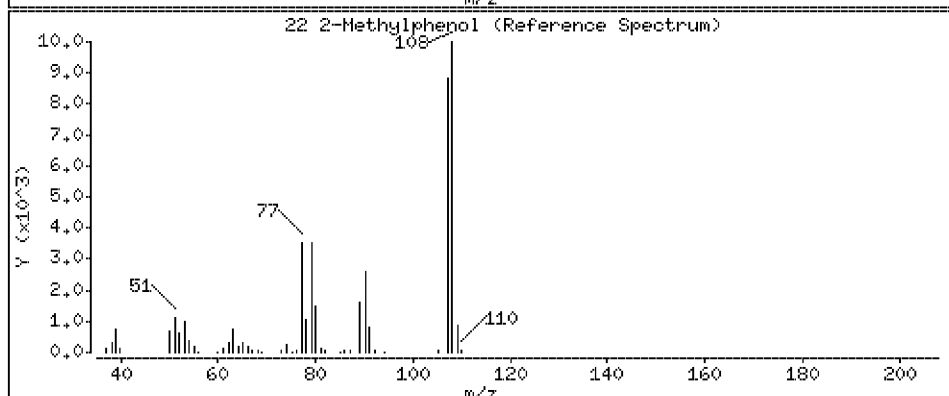
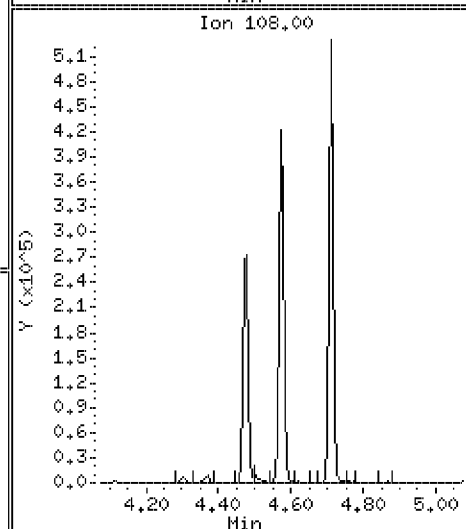
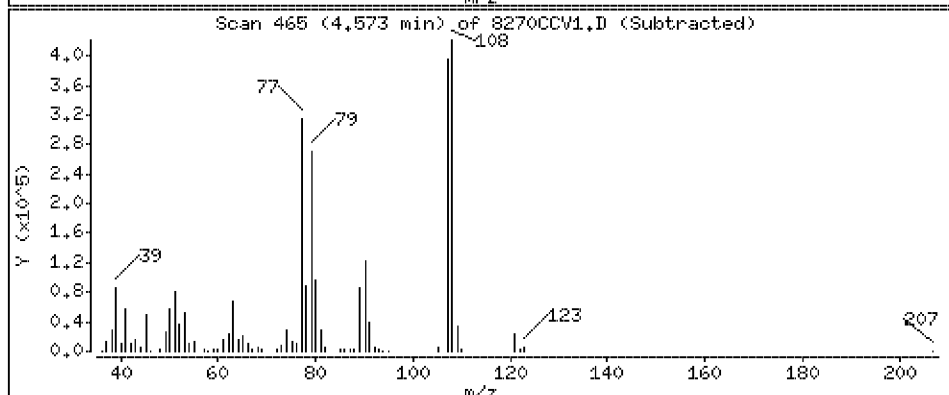
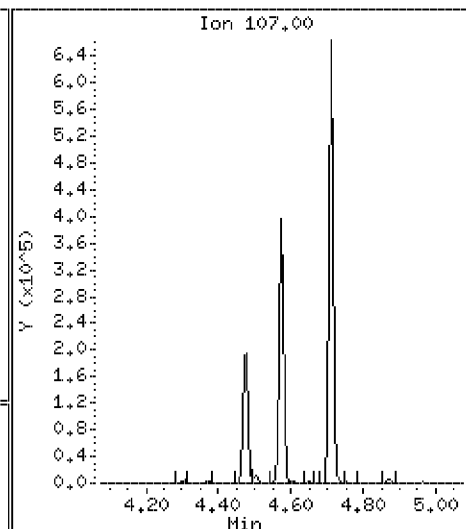
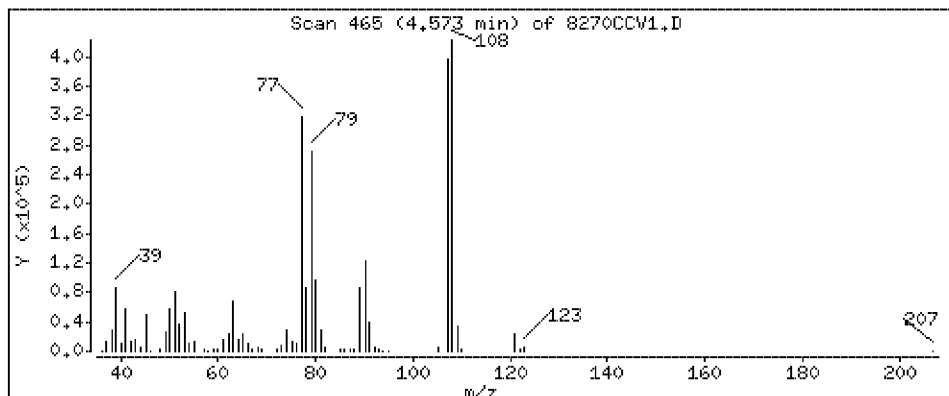
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

22 2-Methylphenol

Concentration: 45.0 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

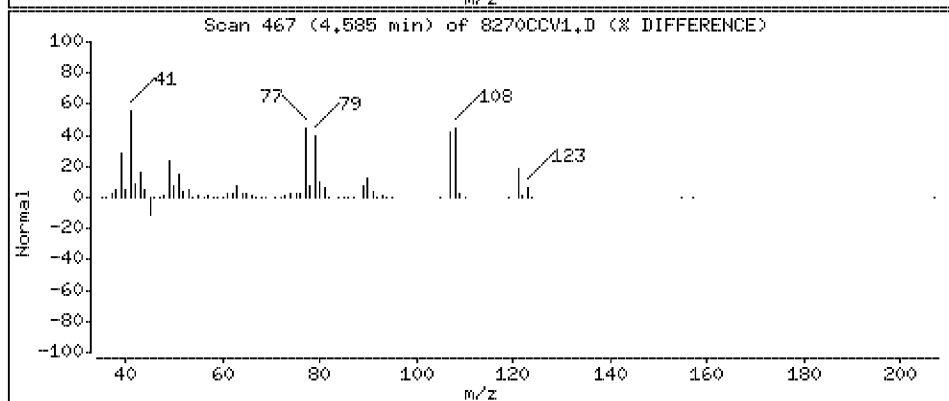
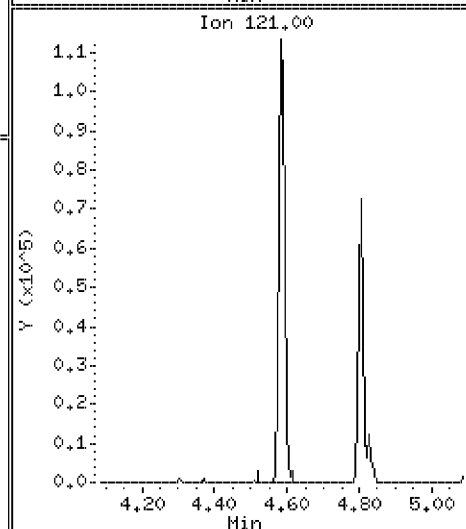
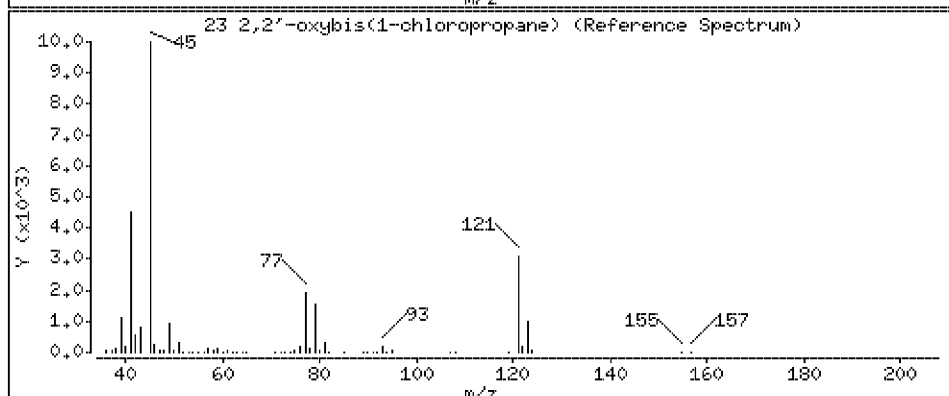
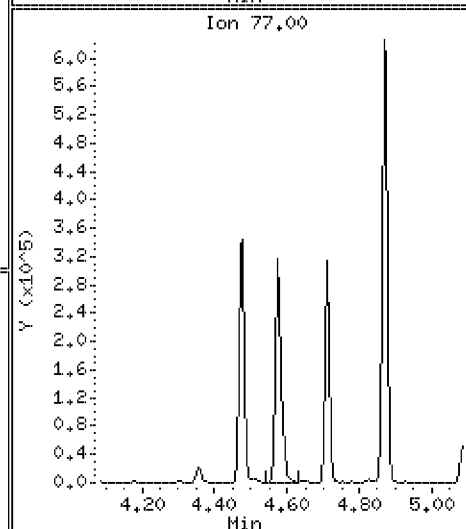
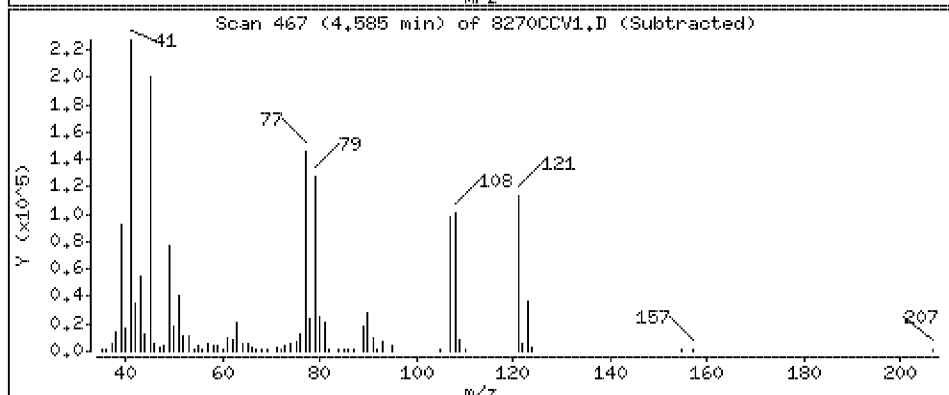
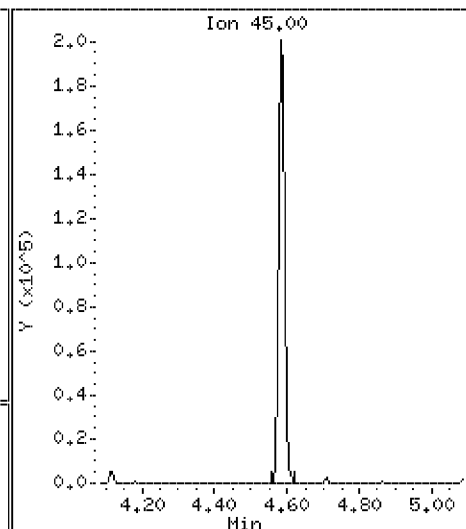
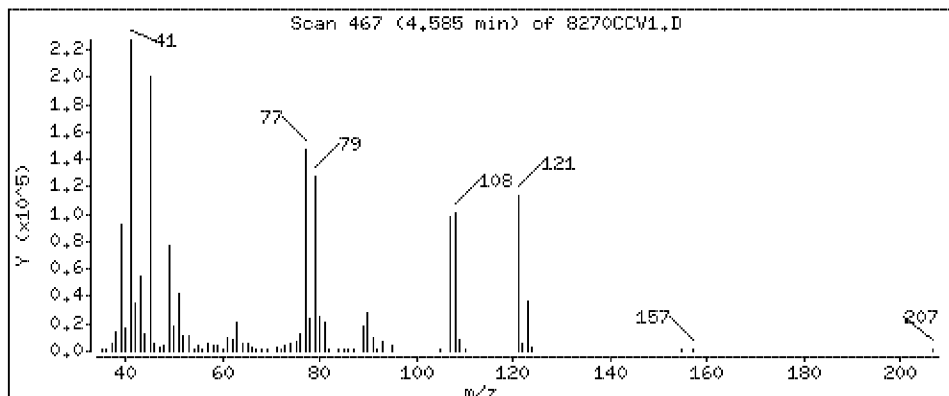
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

23 2,2'-oxybis(1-chloropropane)

Concentration: 41.6 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

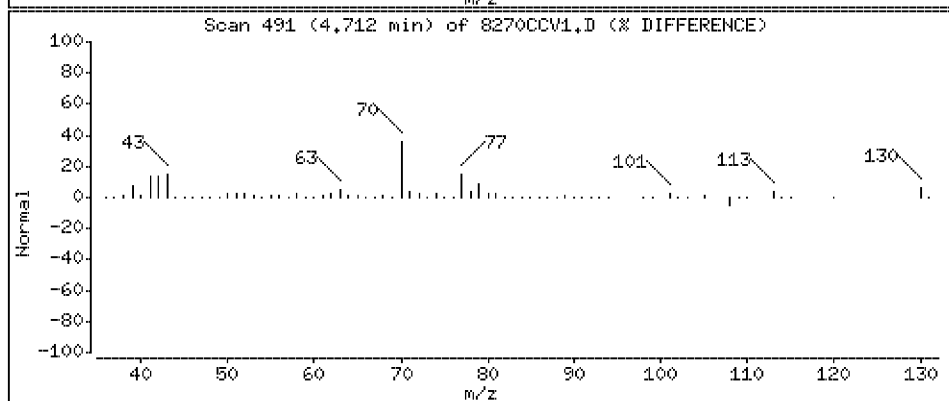
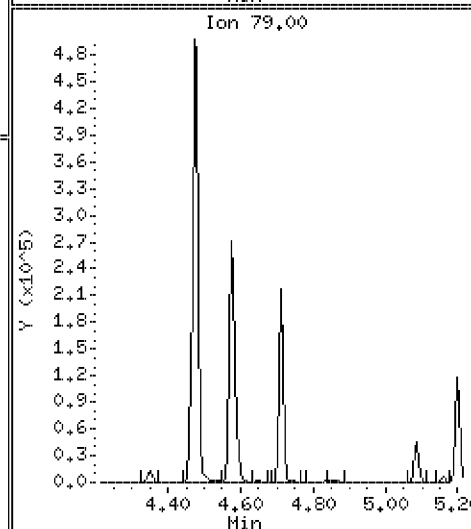
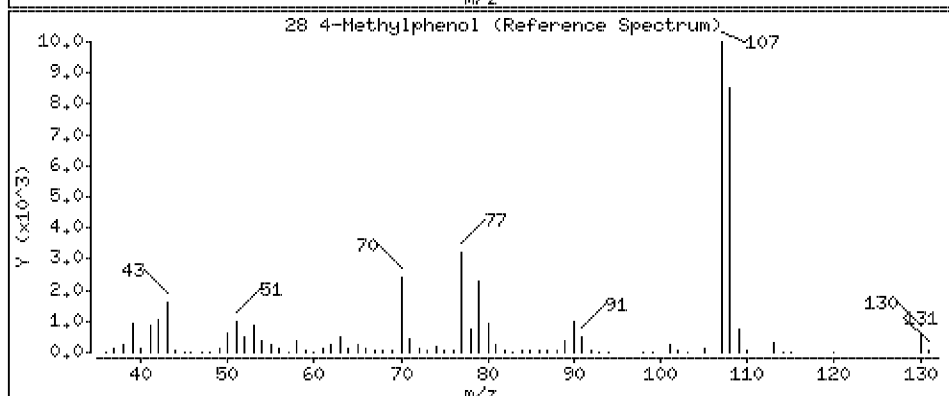
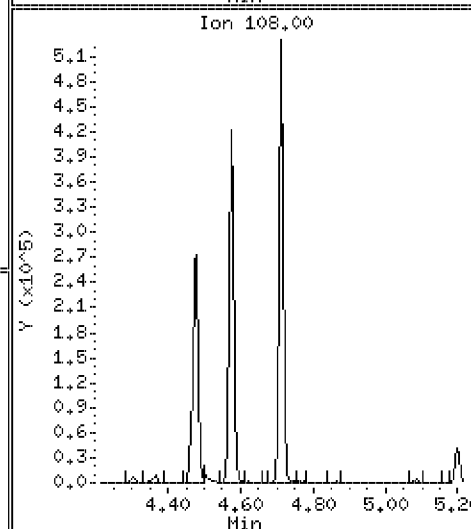
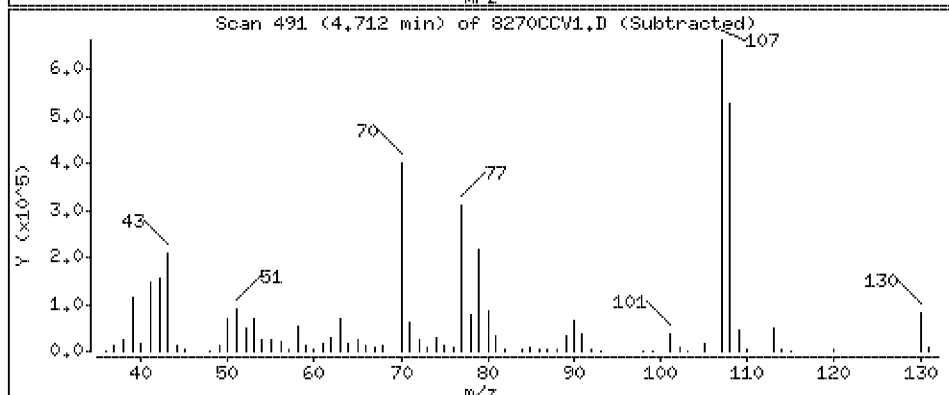
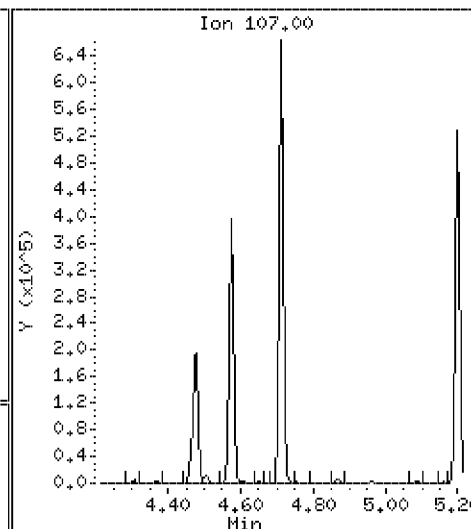
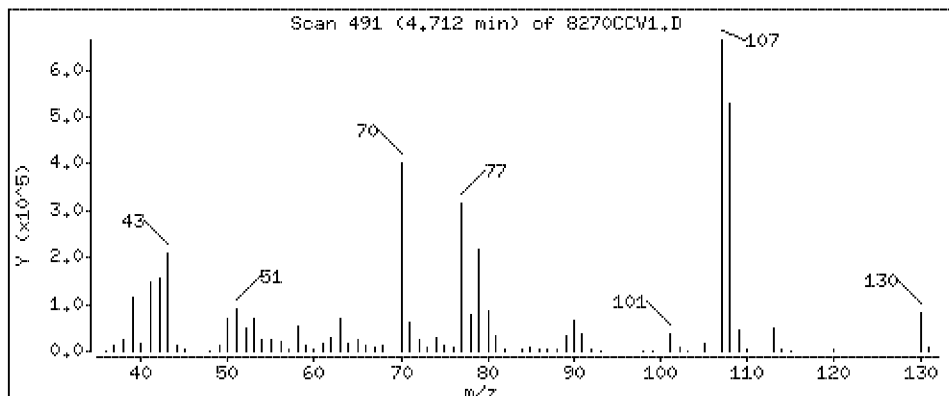
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

28 4-Methylphenol

Concentration: 48.0 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

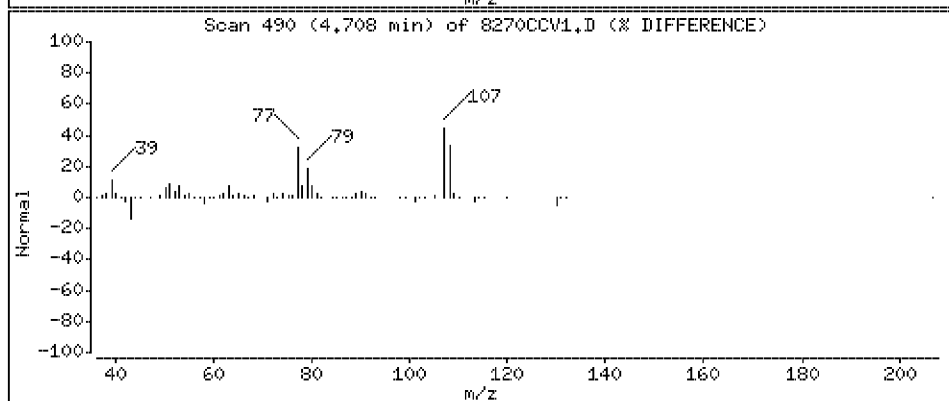
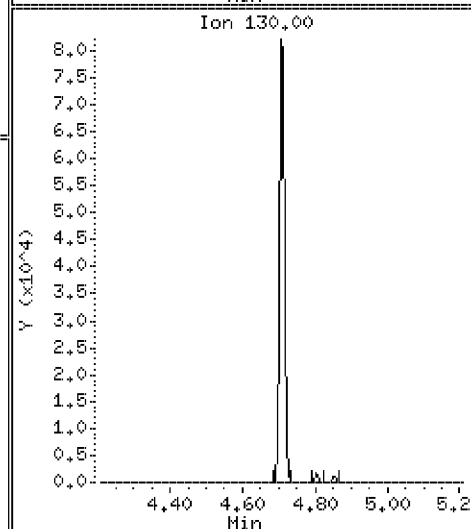
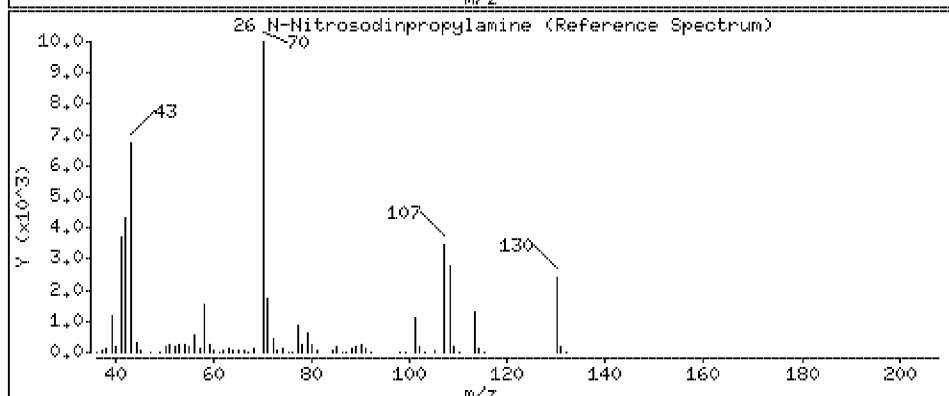
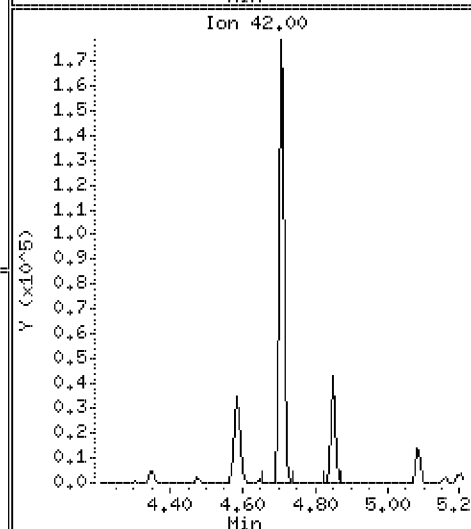
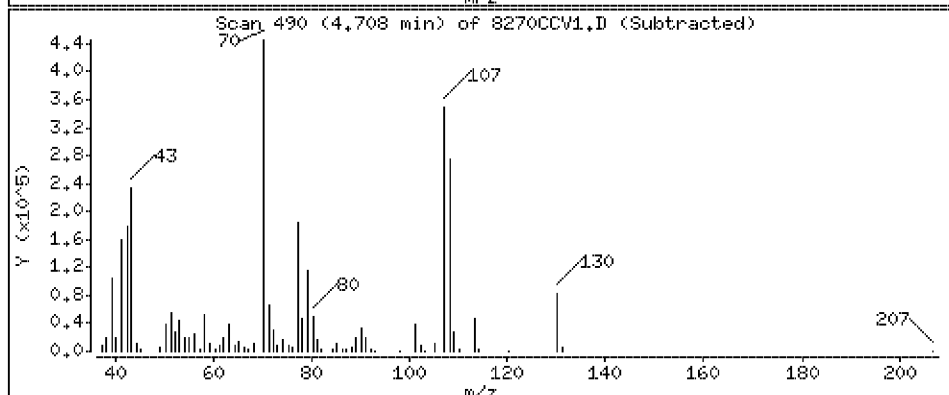
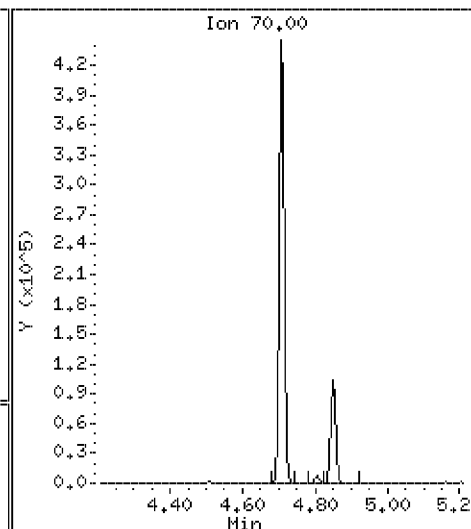
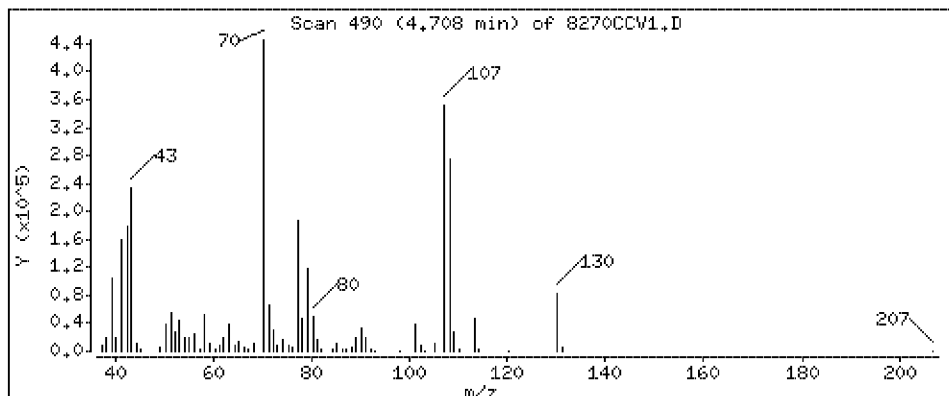
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

26 N-Nitrosodinpropylamine

Concentration: 49.0 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

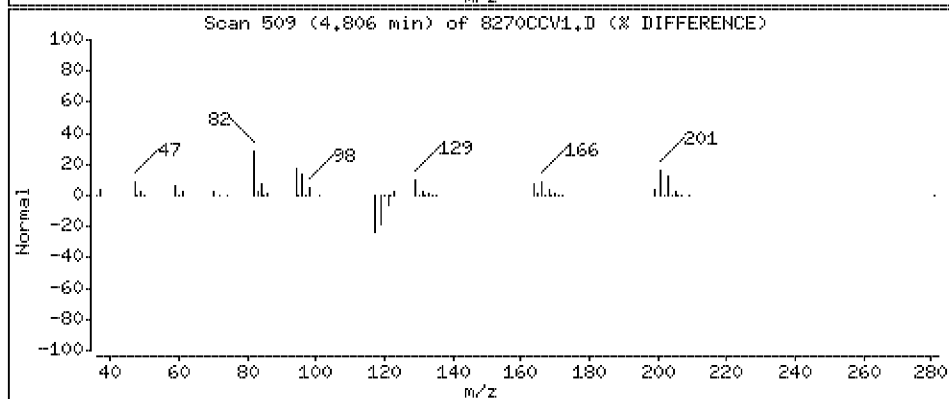
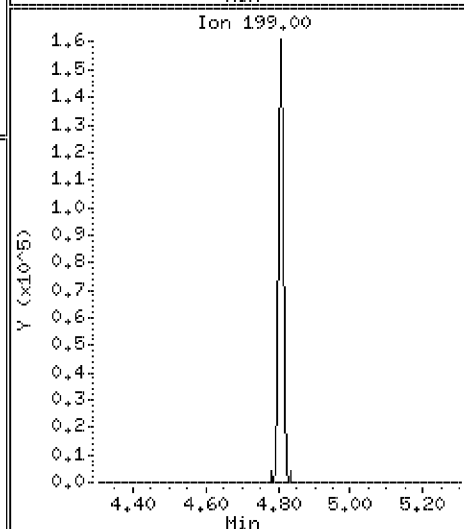
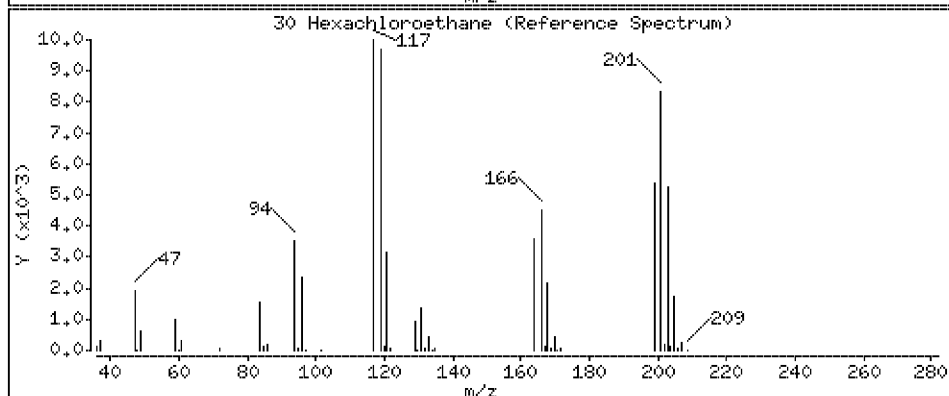
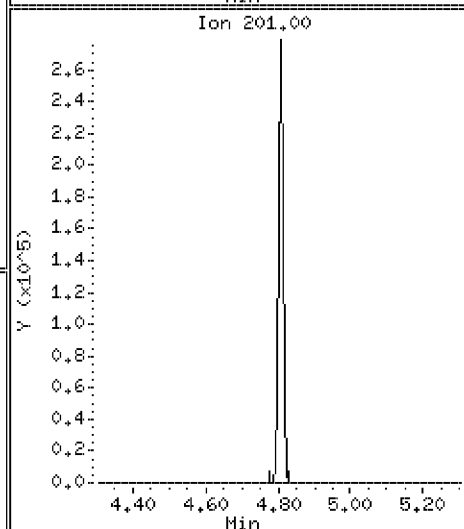
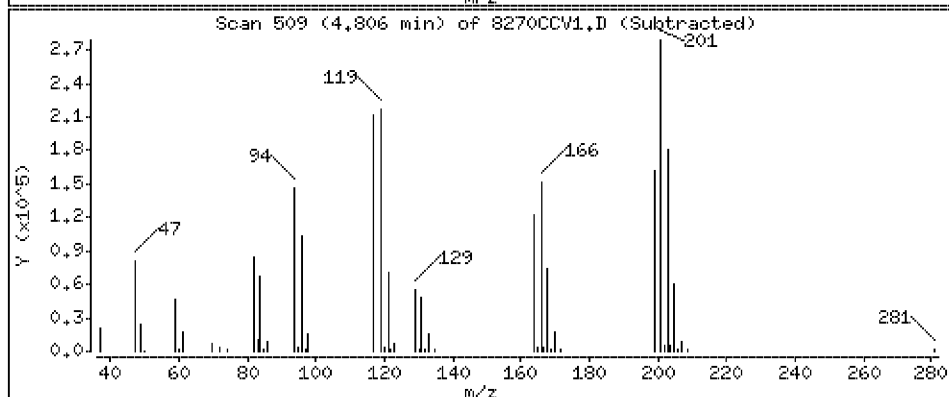
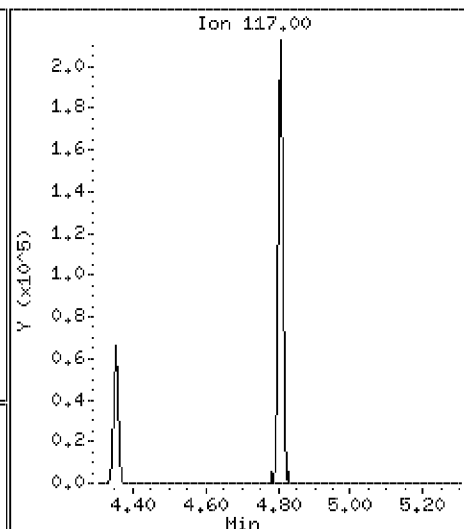
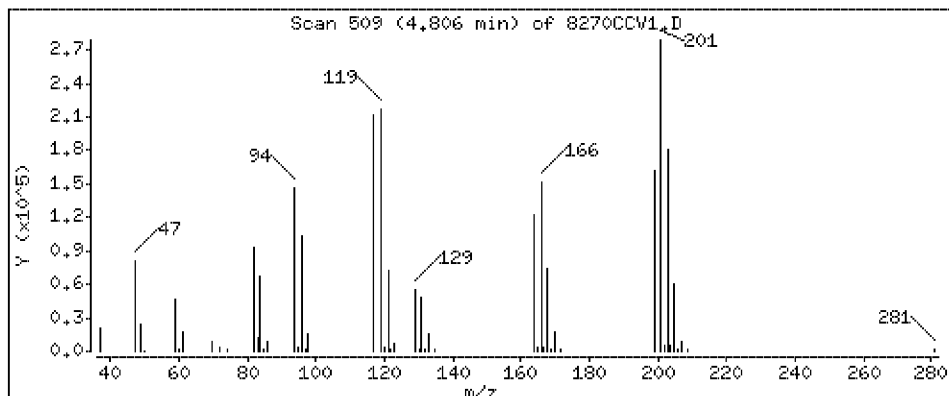
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

30 Hexachloroethane

Concentration: 44.9 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

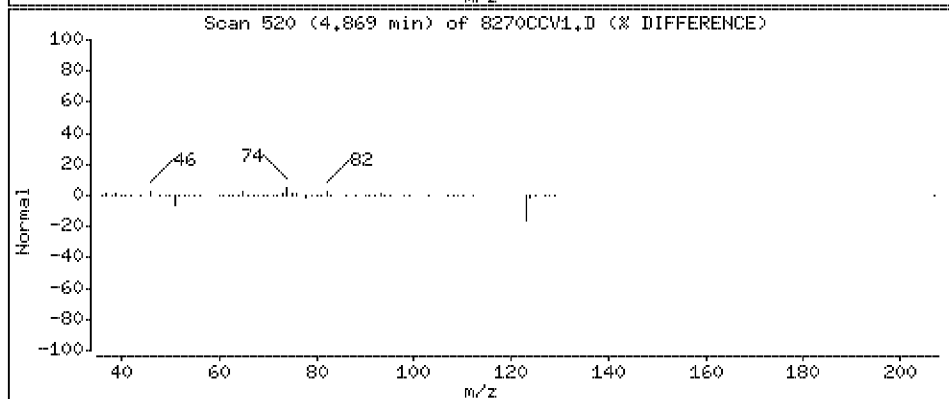
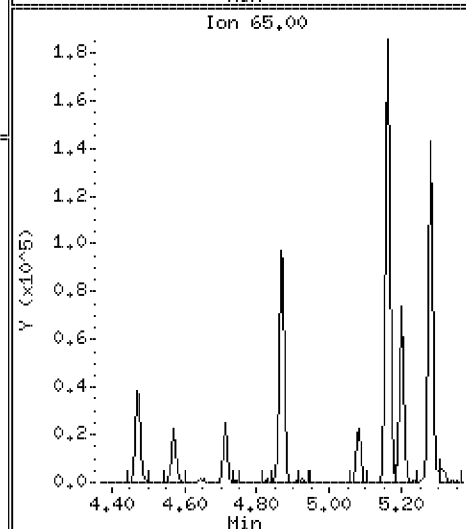
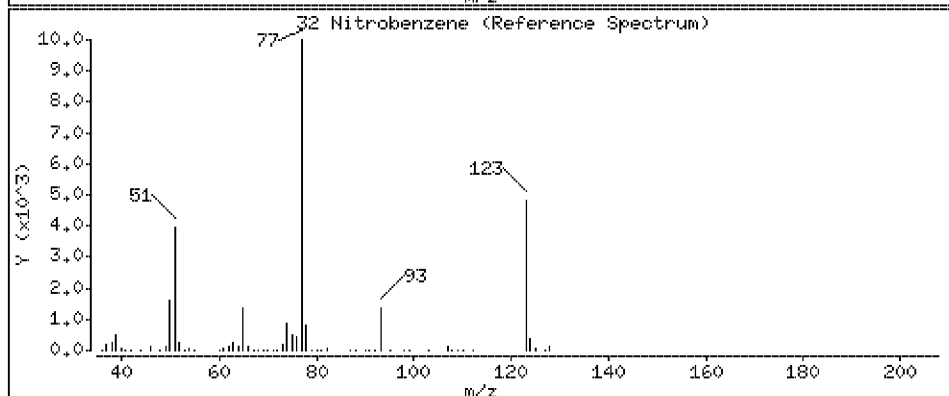
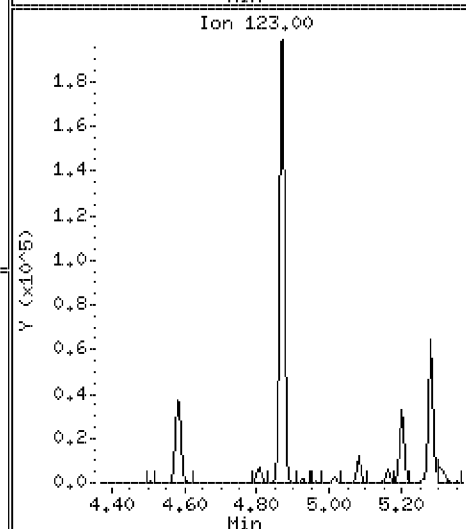
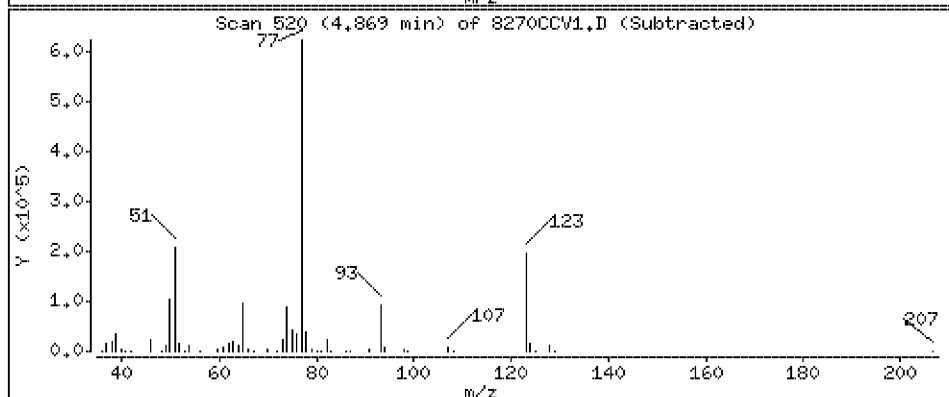
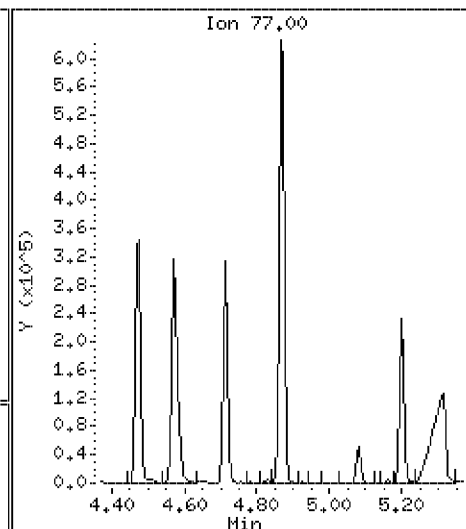
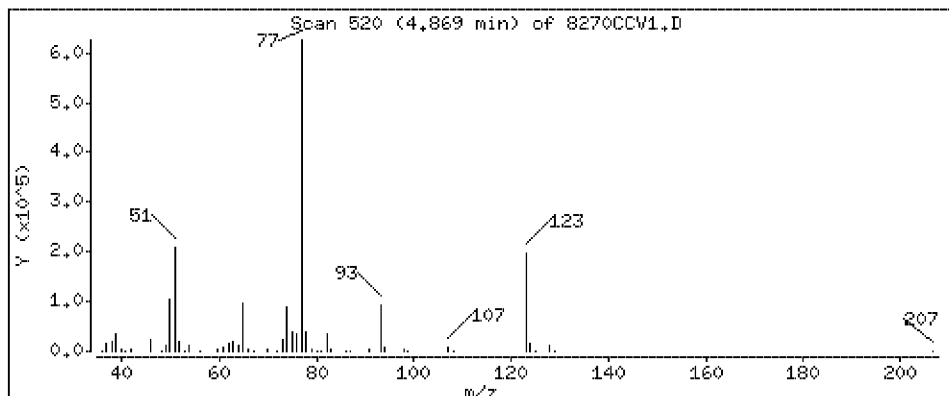
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

32 Nitrobenzene

Concentration: 47.4 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

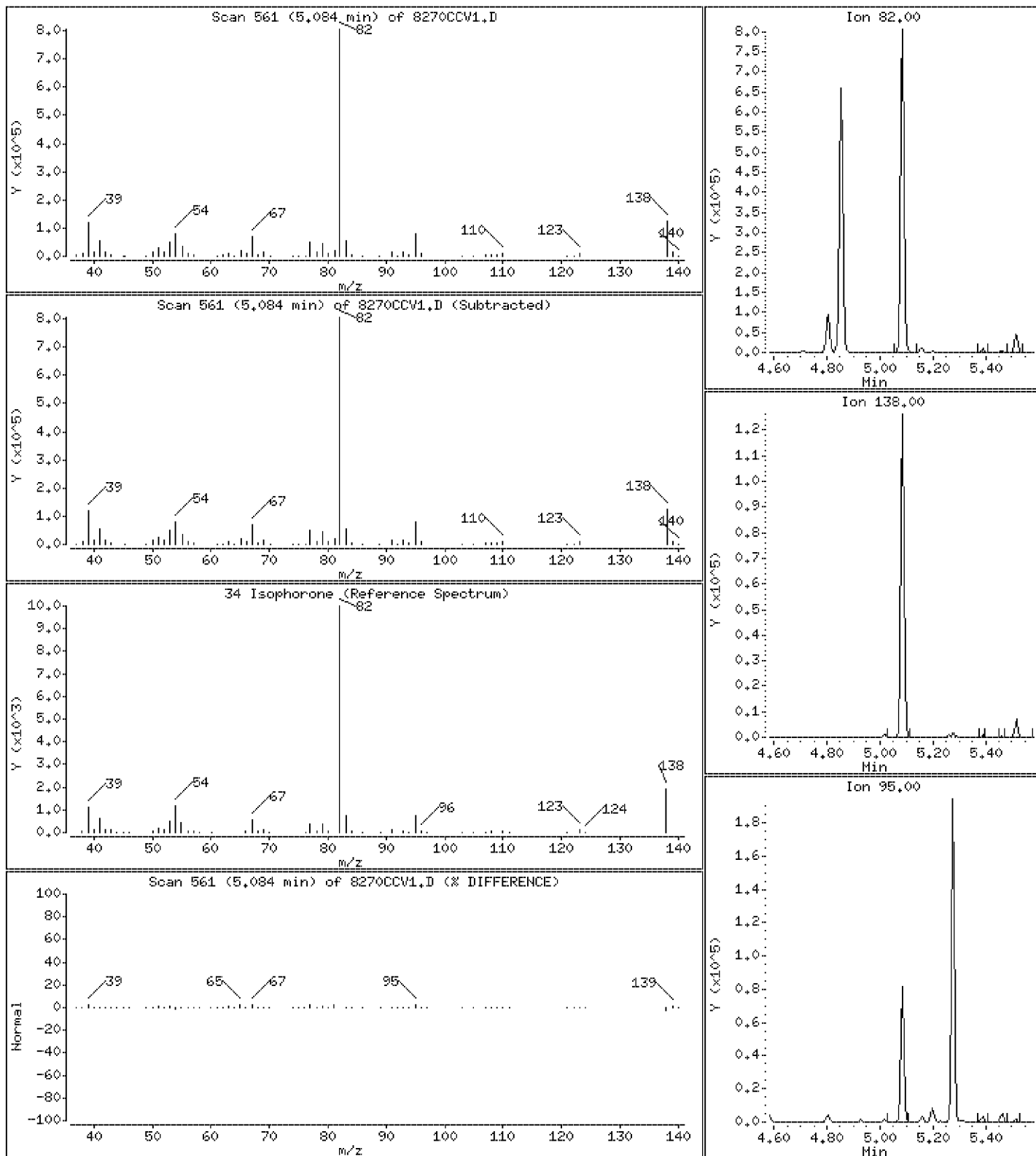
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

34 Isophorone

Concentration: 48.3 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

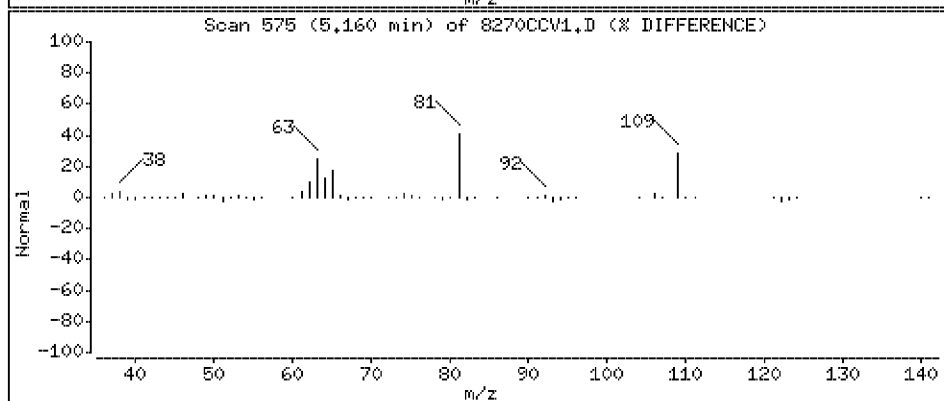
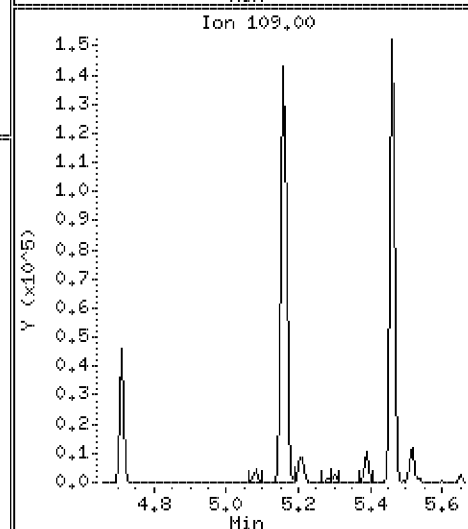
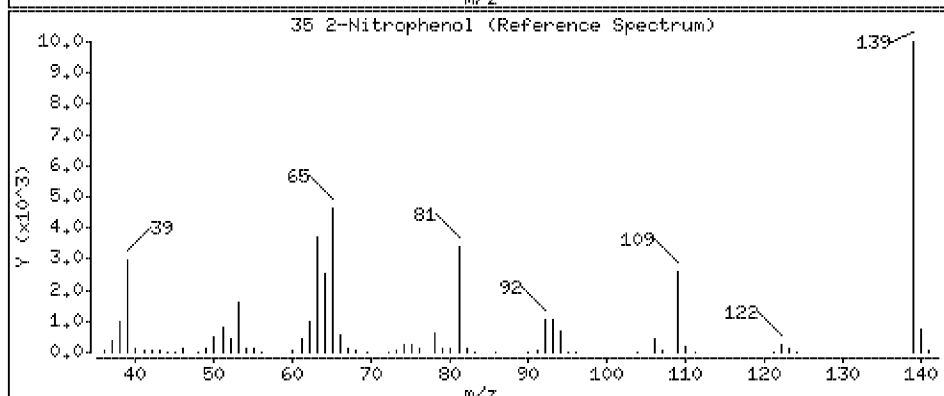
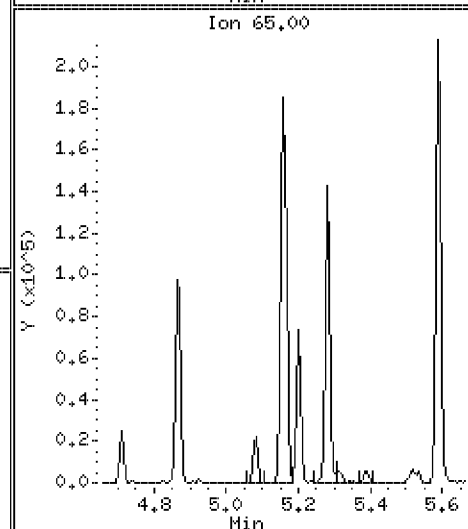
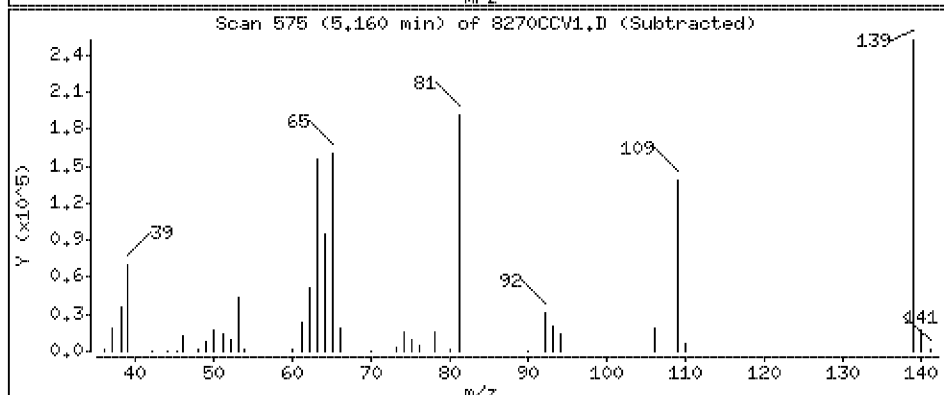
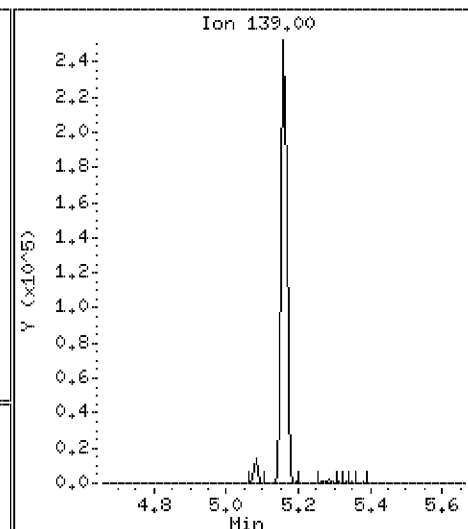
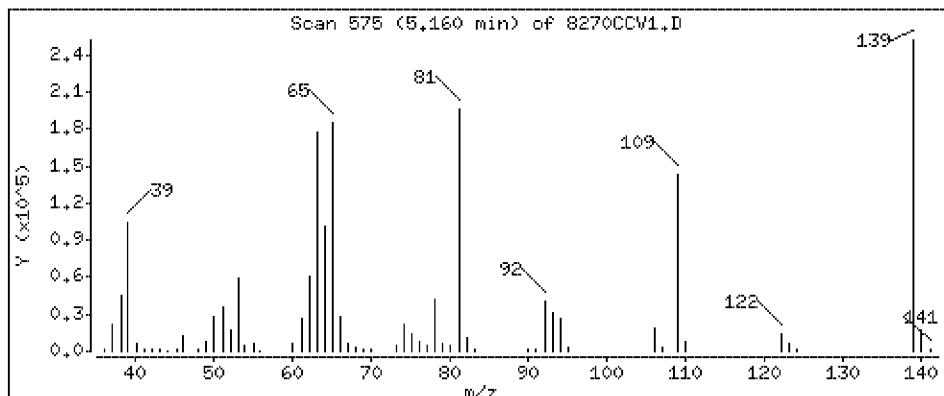
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

35 2-Nitrophenol

Concentration: 47.1 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

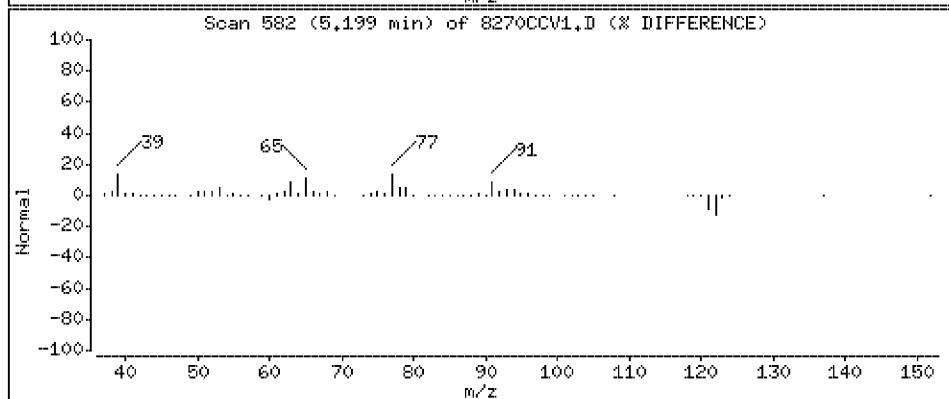
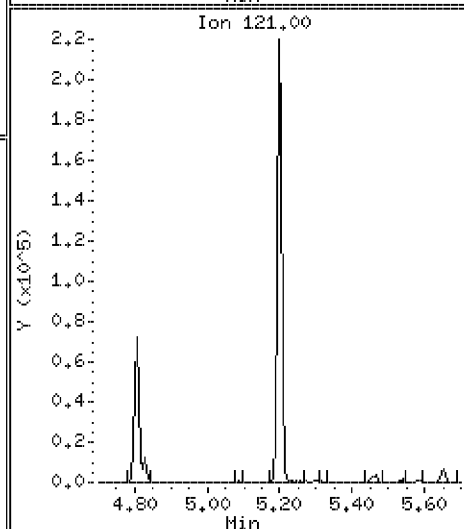
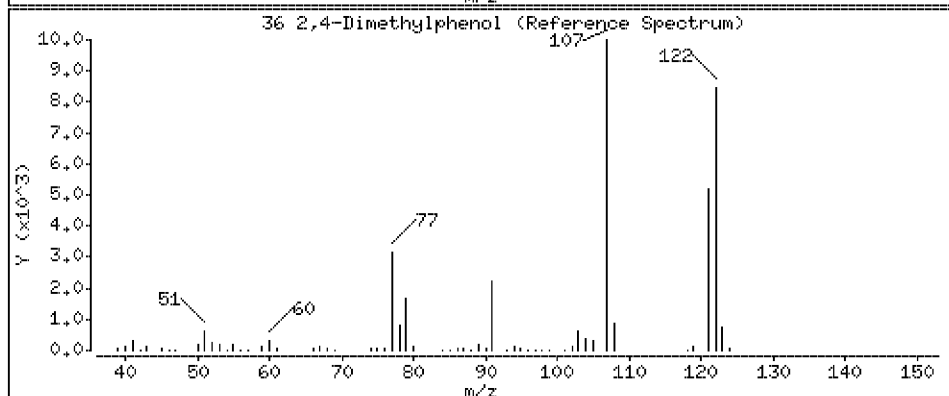
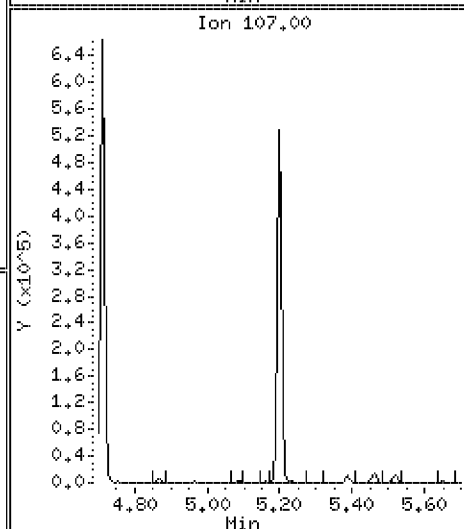
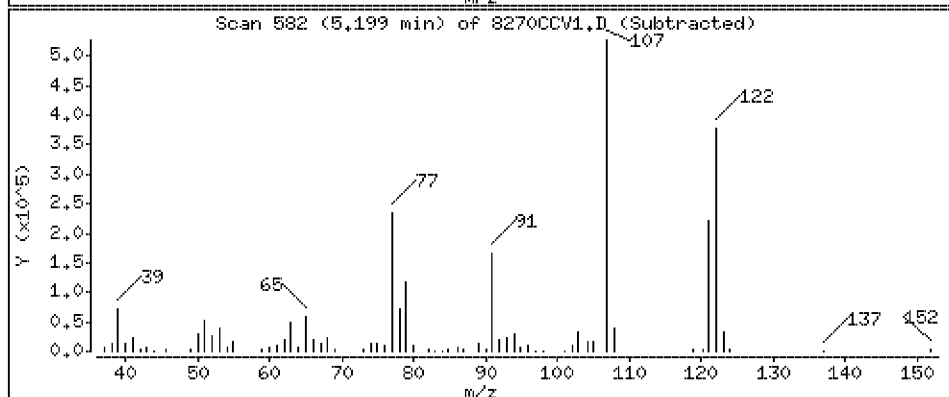
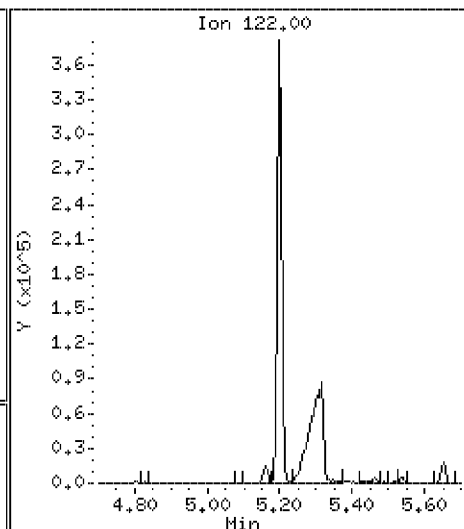
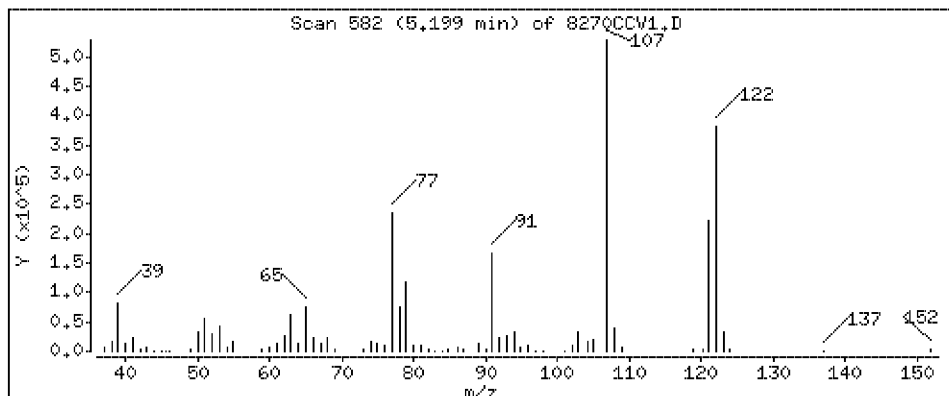
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

36 2,4-Dimethylphenol

Concentration: 45.2 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

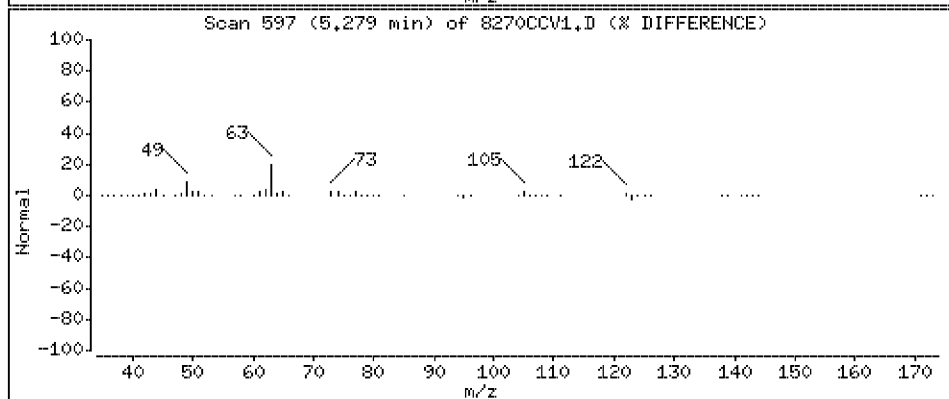
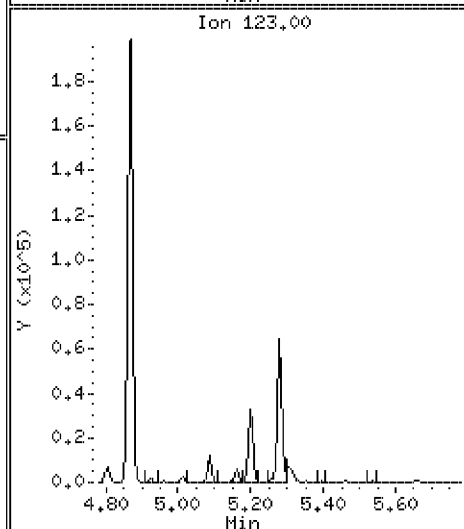
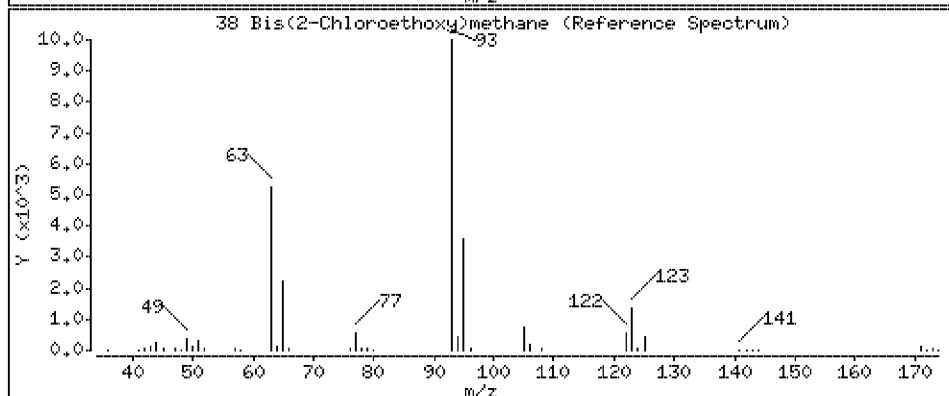
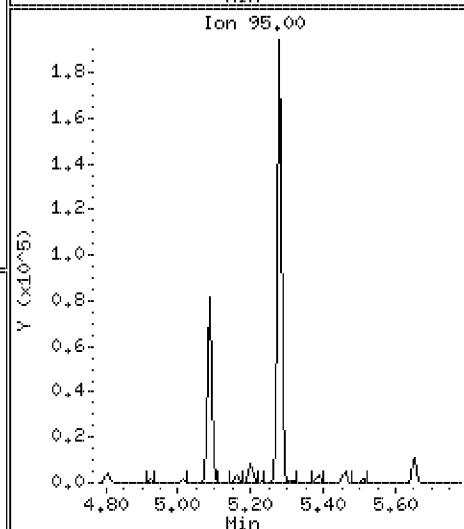
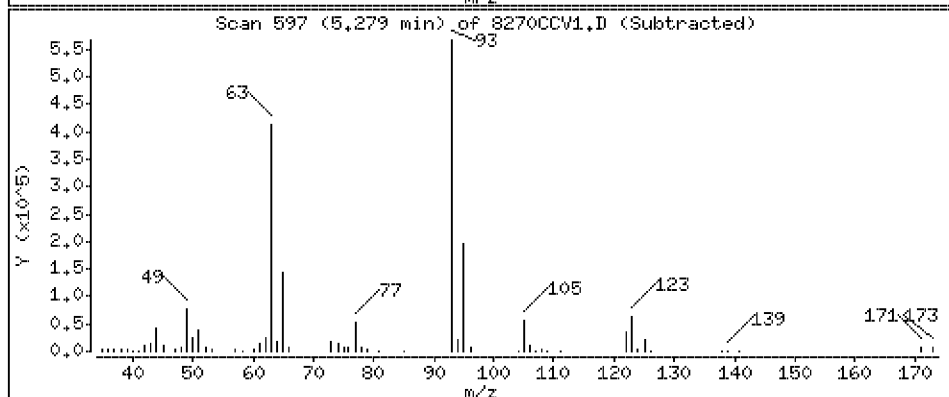
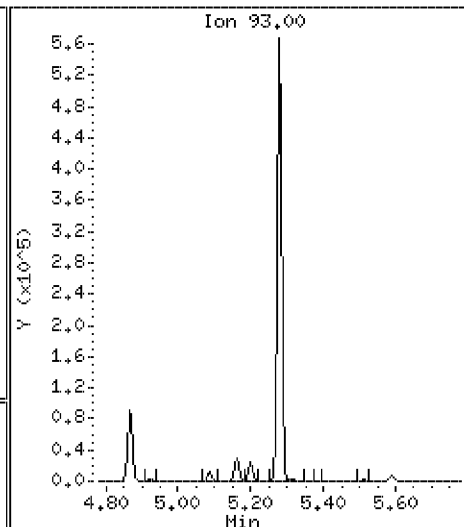
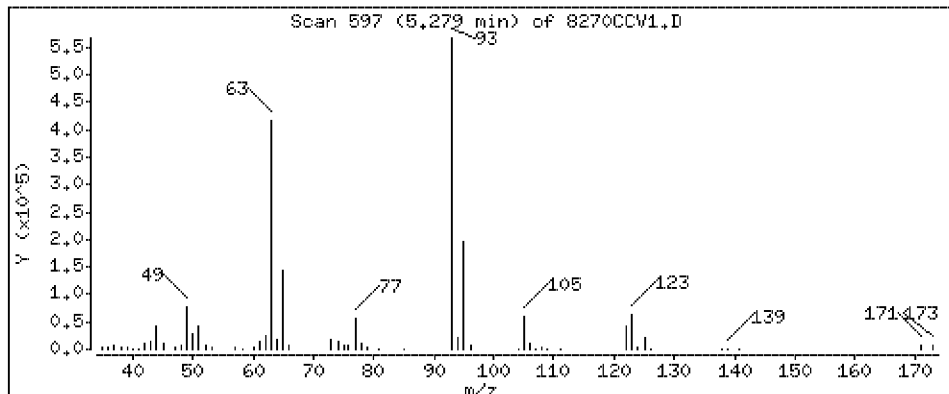
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

38 Bis(2-Chloroethoxy)methane

Concentration: 46.3 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

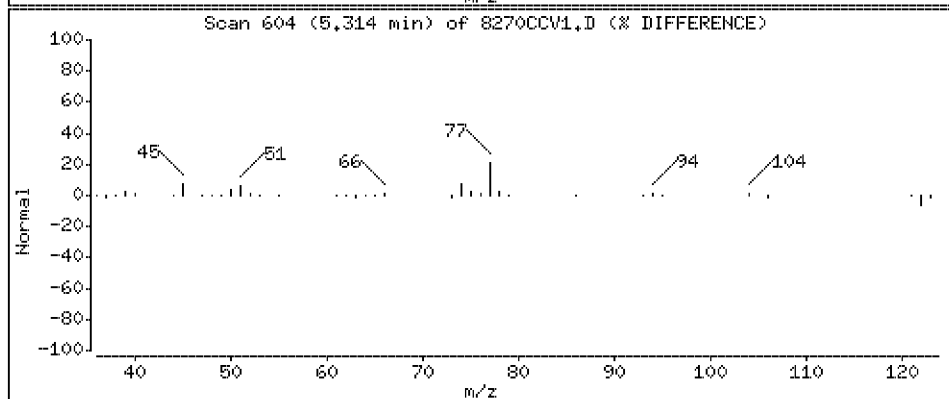
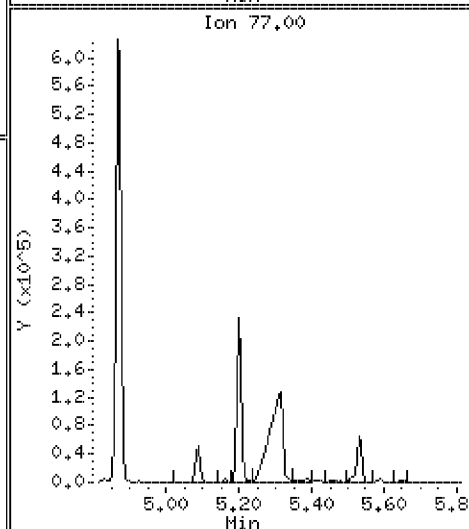
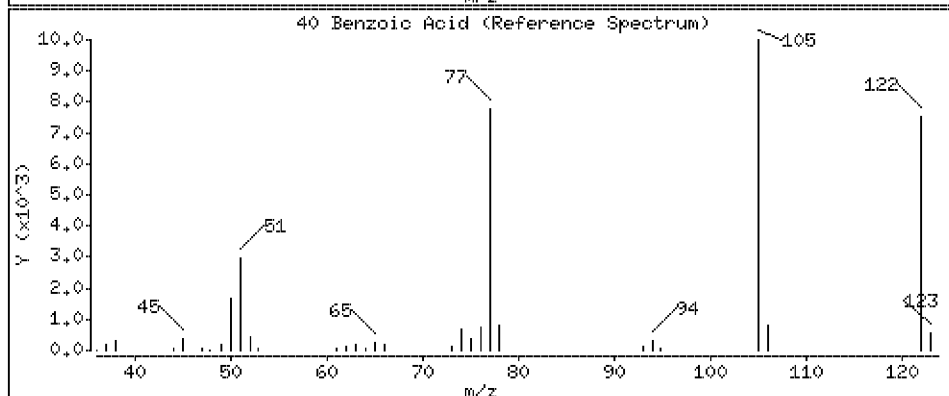
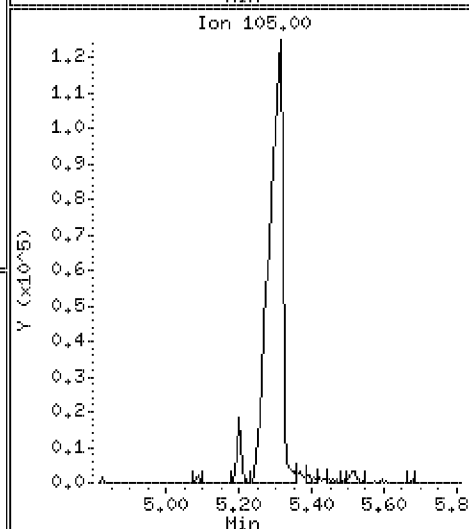
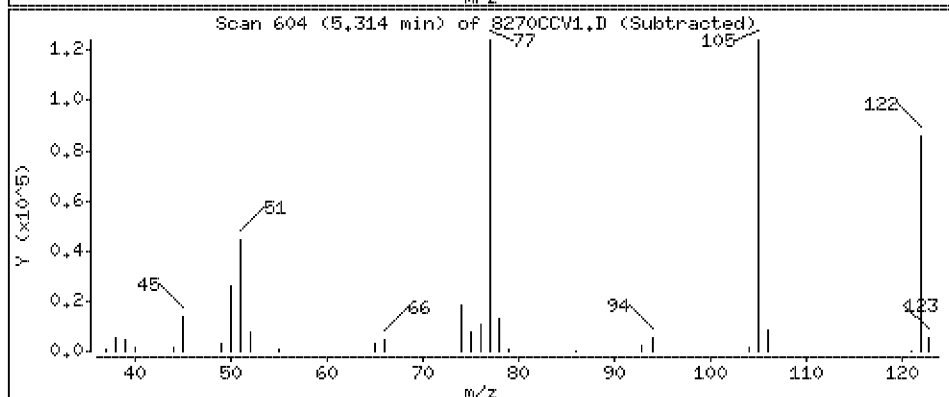
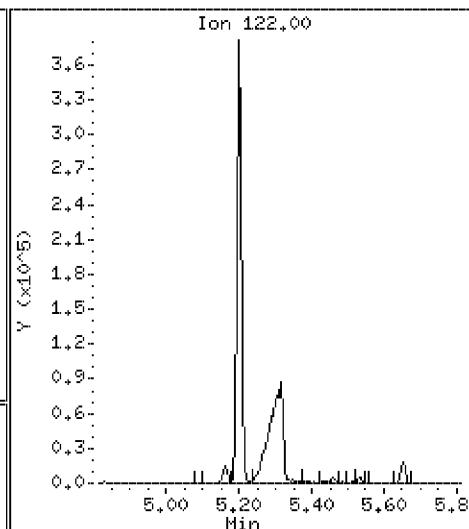
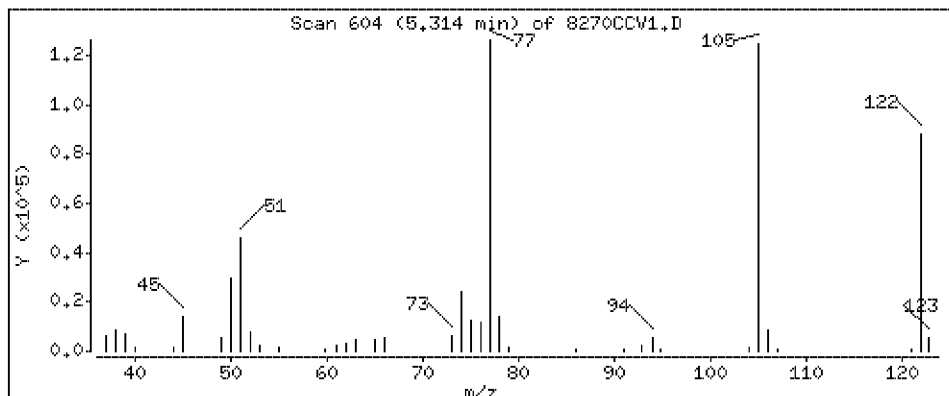
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

40 Benzoic Acid

Concentration: 46.4 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

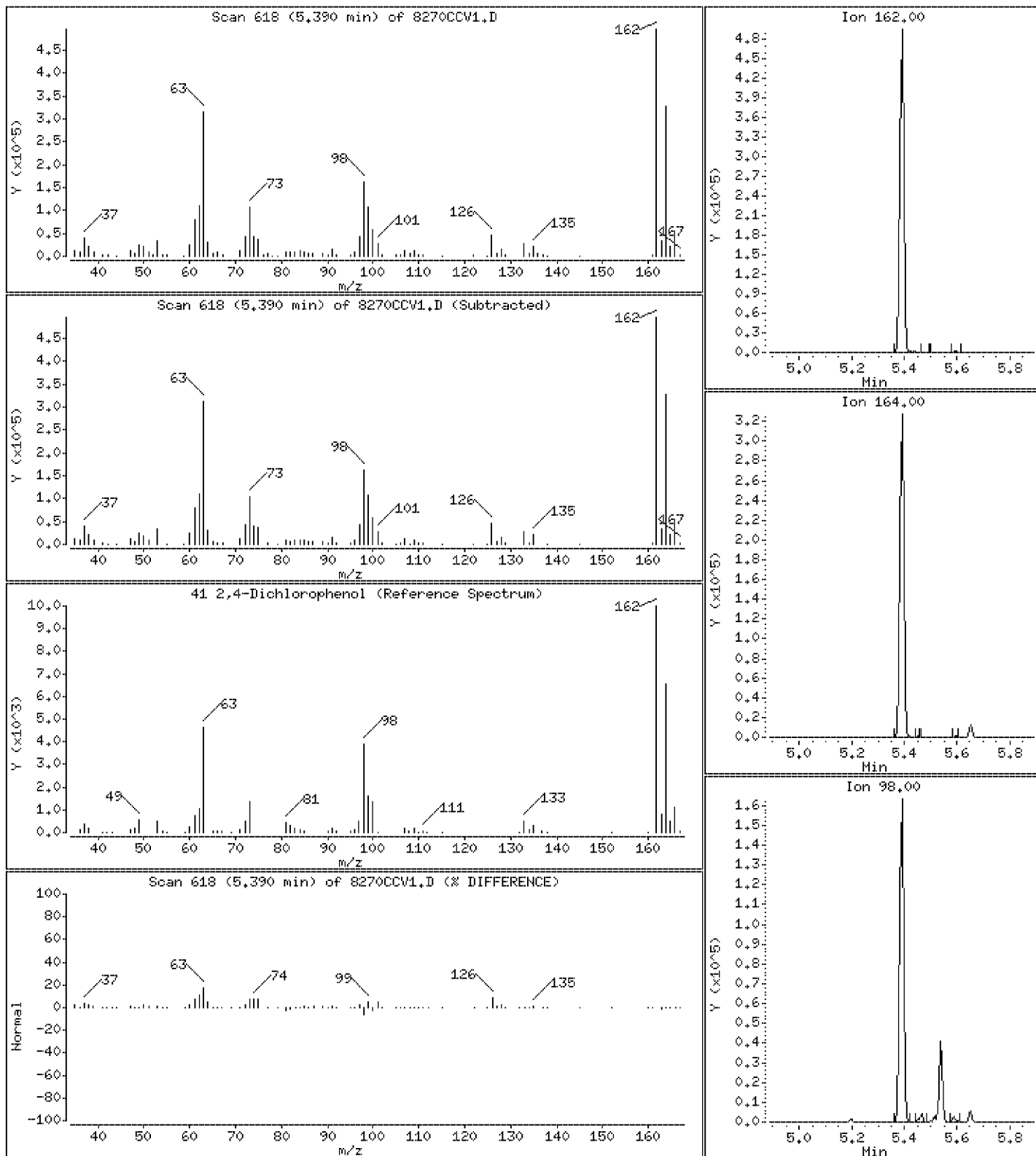
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

41 2,4-Dichlorophenol

Concentration: 48.3 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

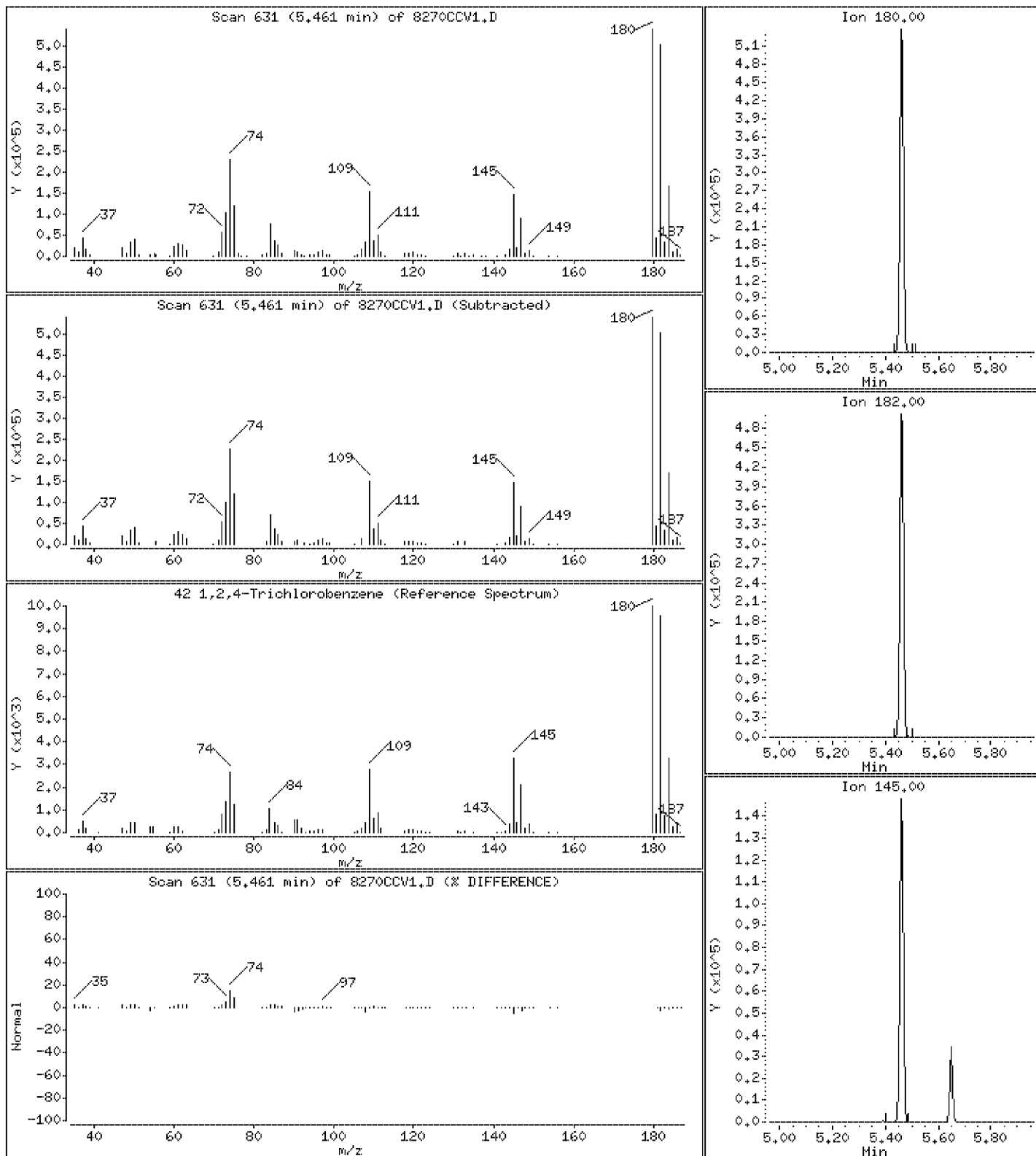
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

42 1,2,4-Trichlorobenzene

Concentration: 47.5 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

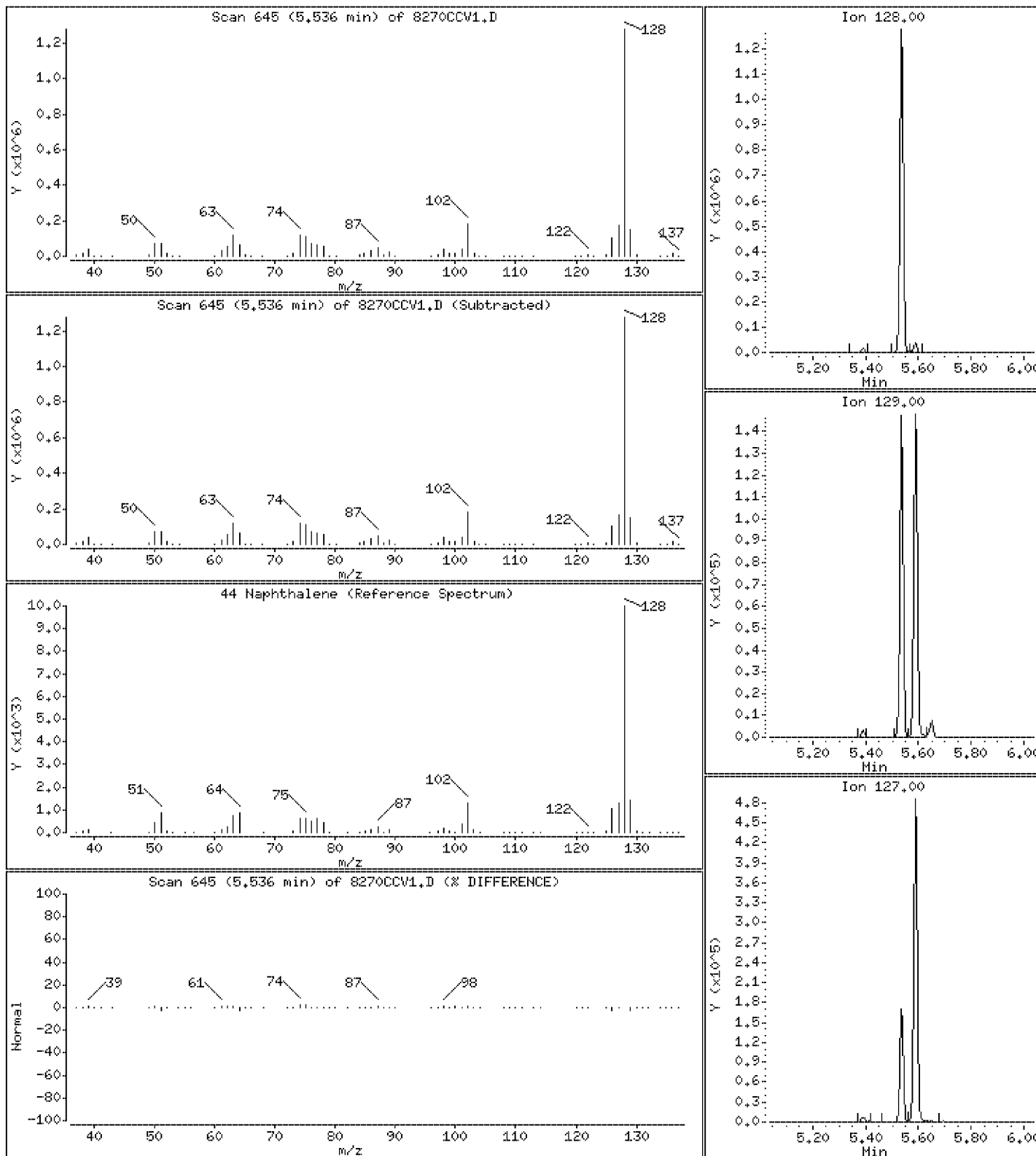
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

44 Naphthalene

Concentration: 46.7 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

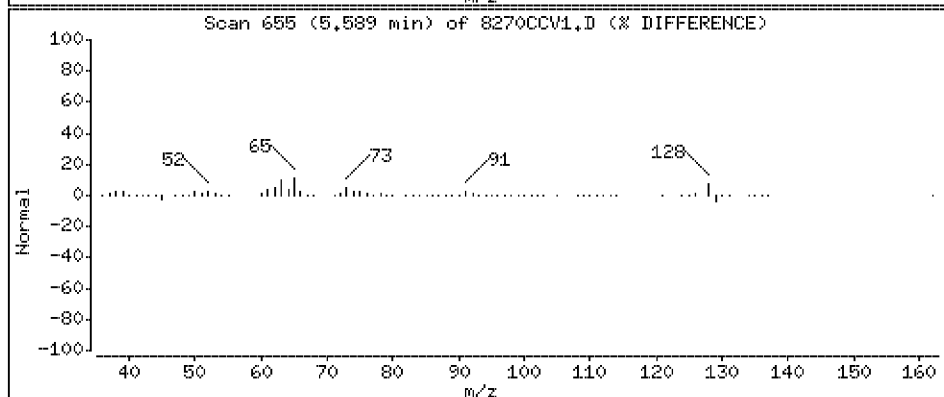
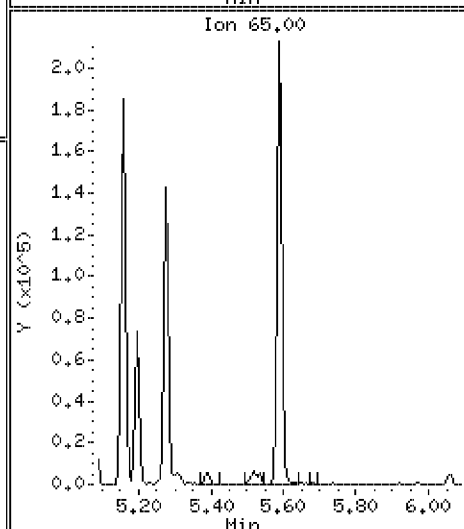
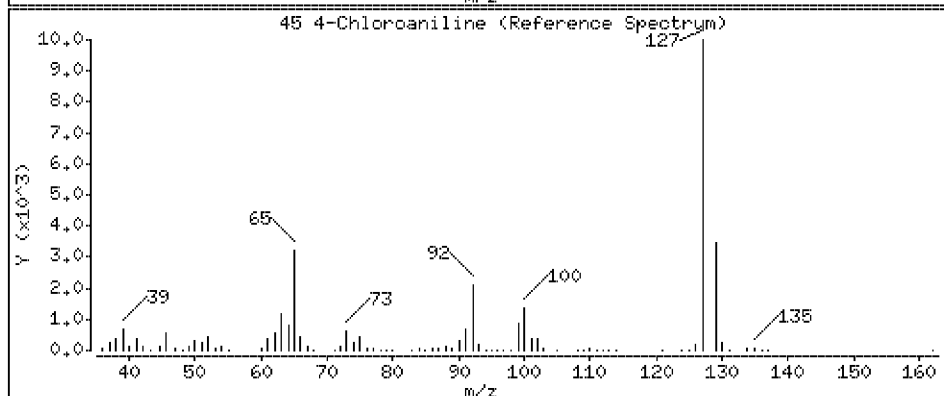
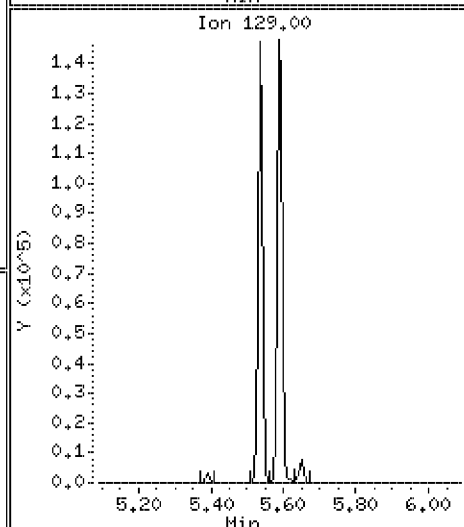
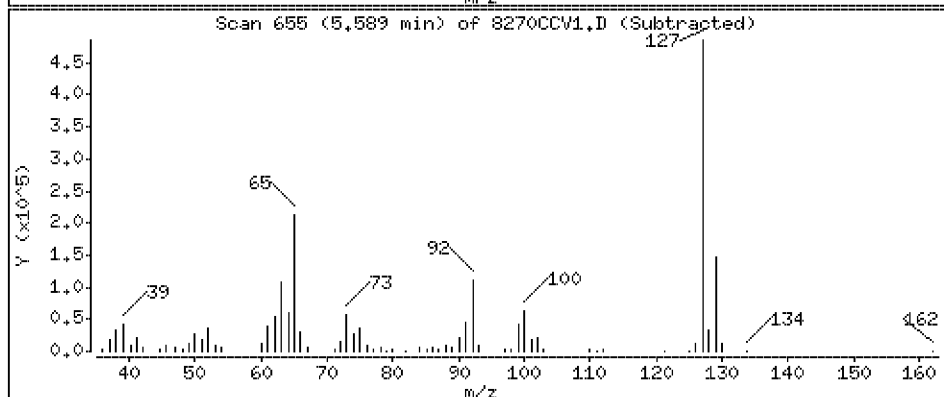
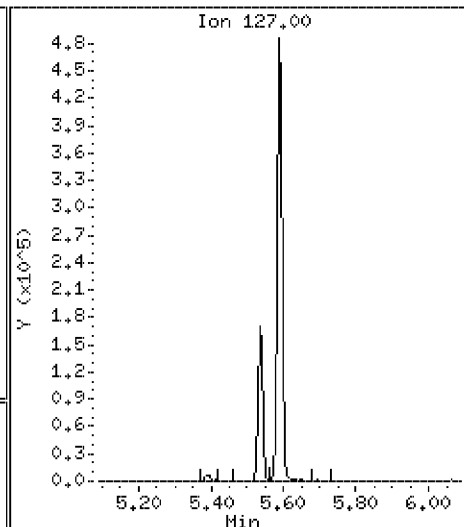
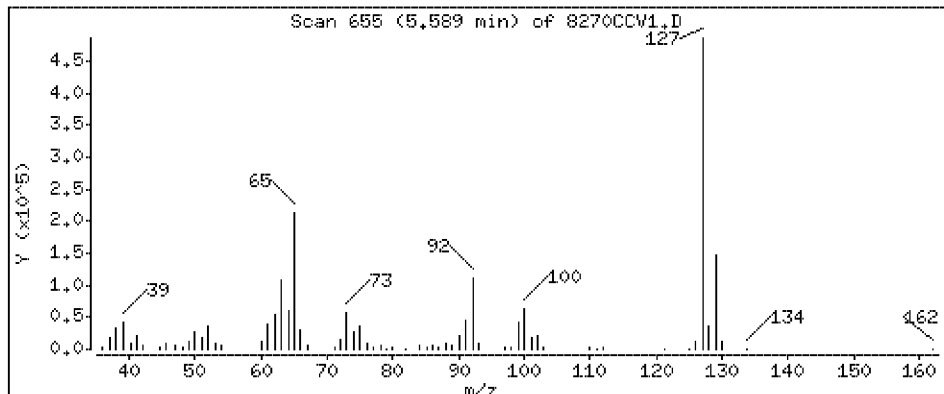
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

45 4-Chloroaniline

Concentration: 44.1 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

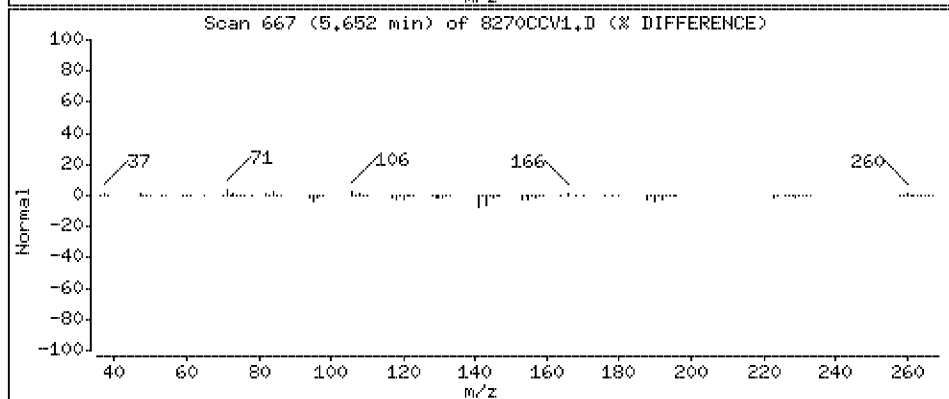
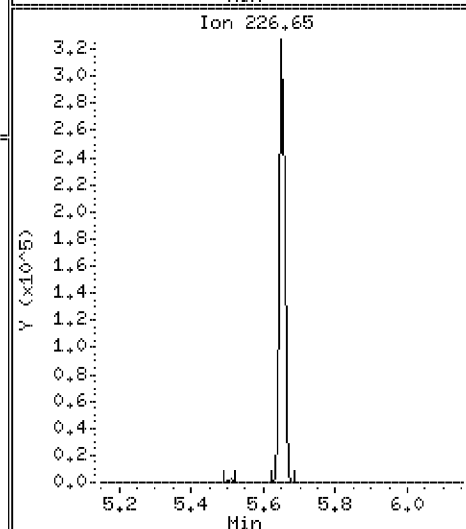
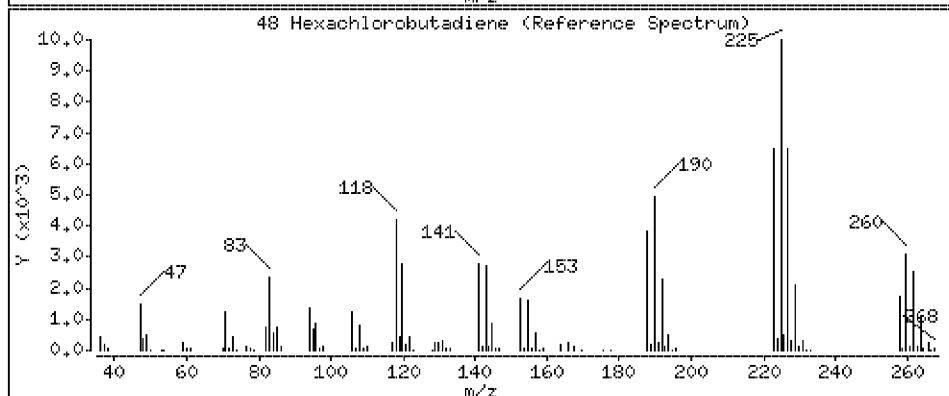
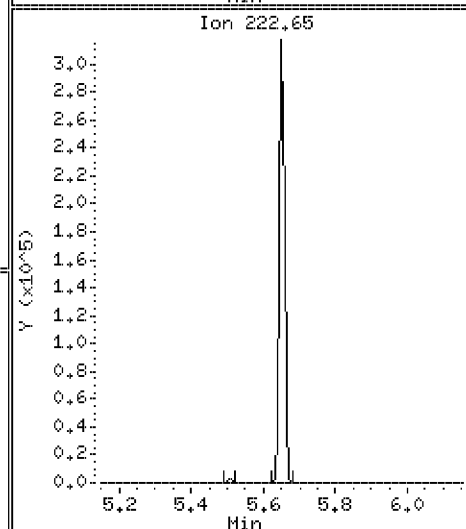
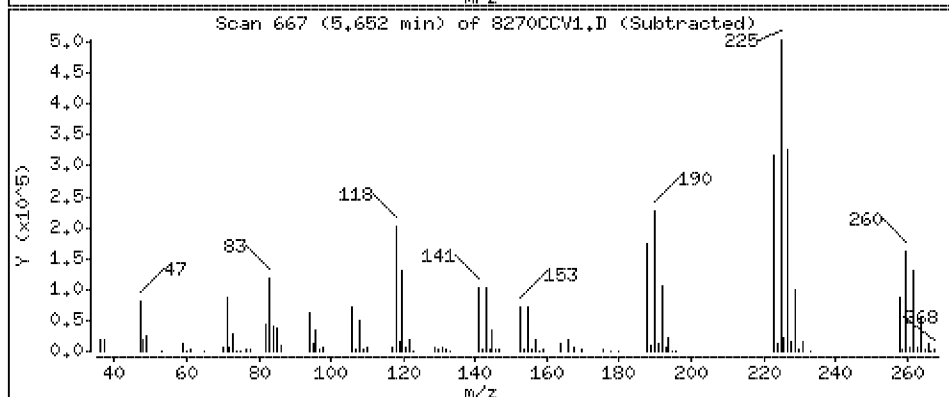
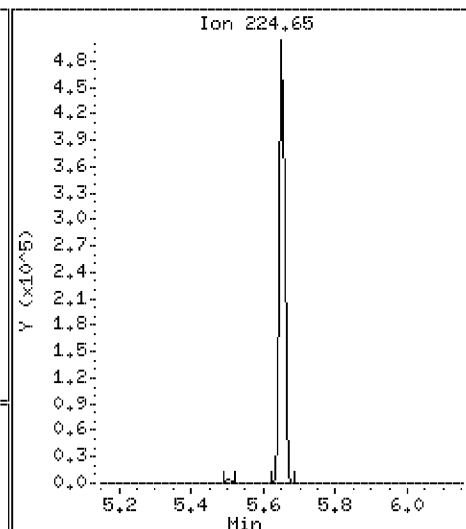
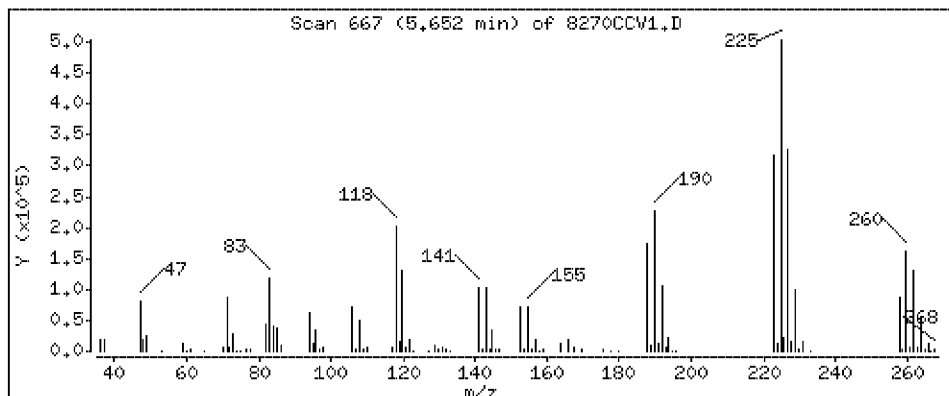
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

48 Hexachlorobutadiene

Concentration: 50.2 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

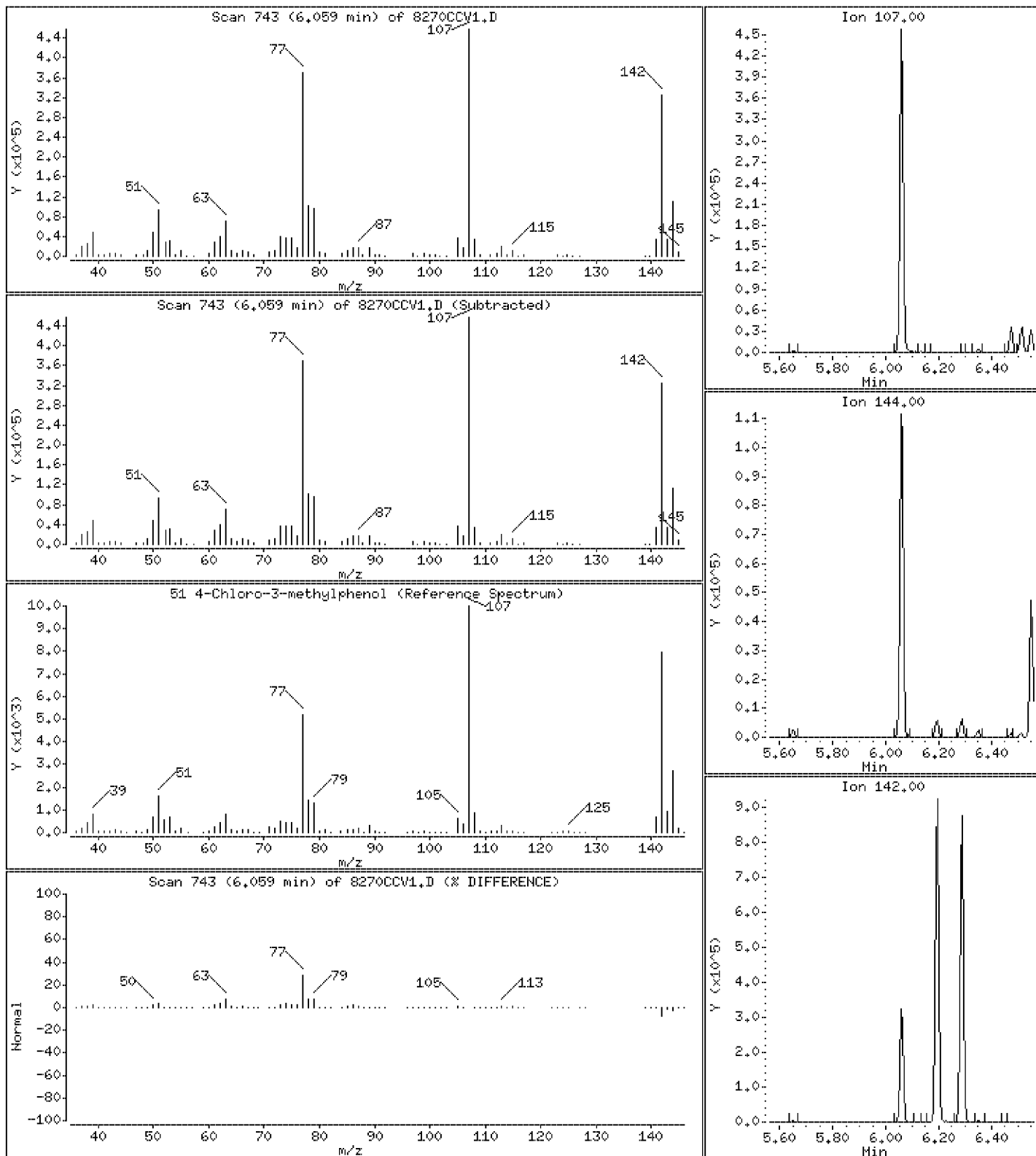
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

51 4-Chloro-3-methylphenol

Concentration: 48.8 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

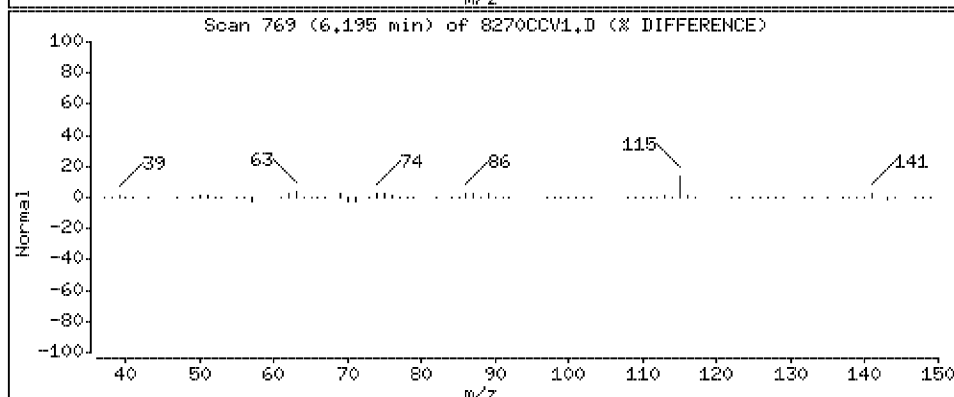
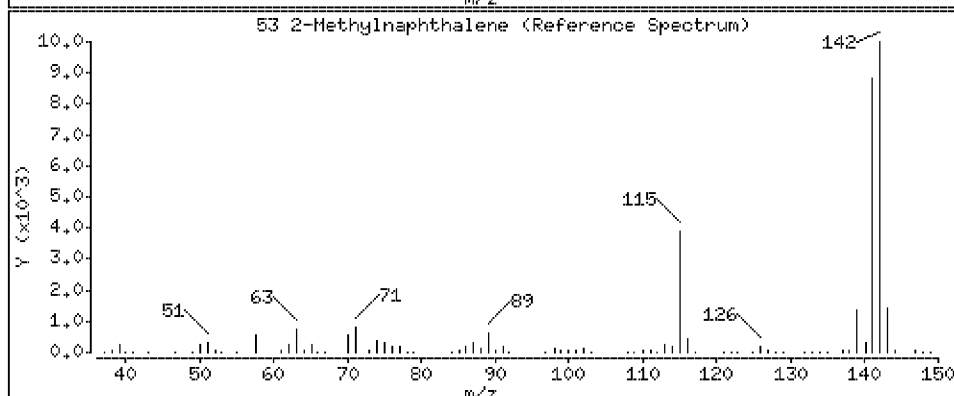
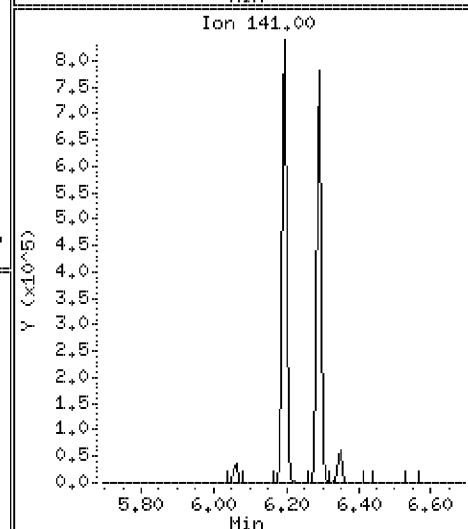
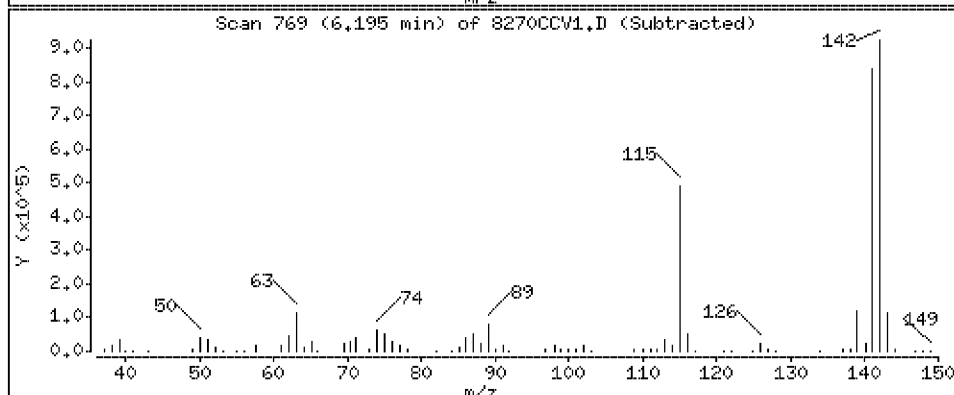
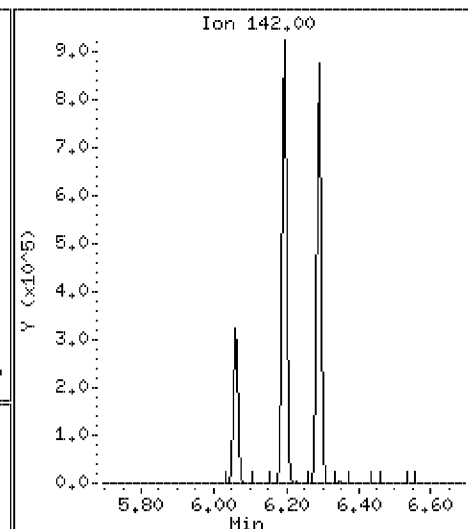
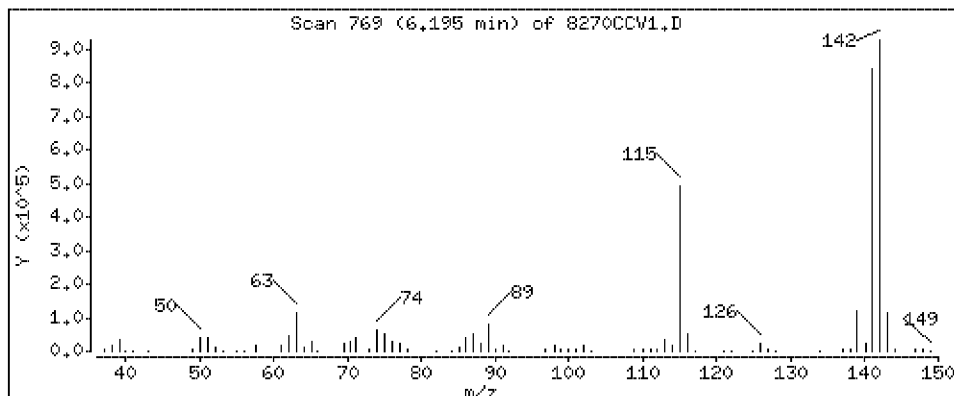
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

53 2-Methylnaphthalene

Concentration: 46.3 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

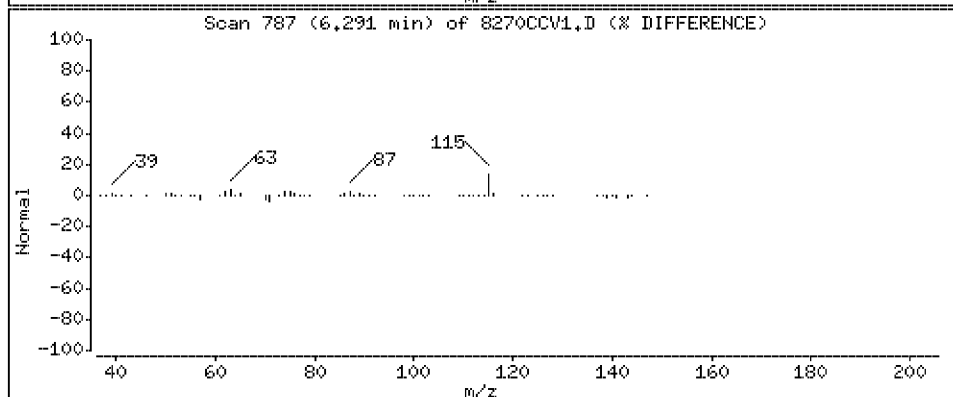
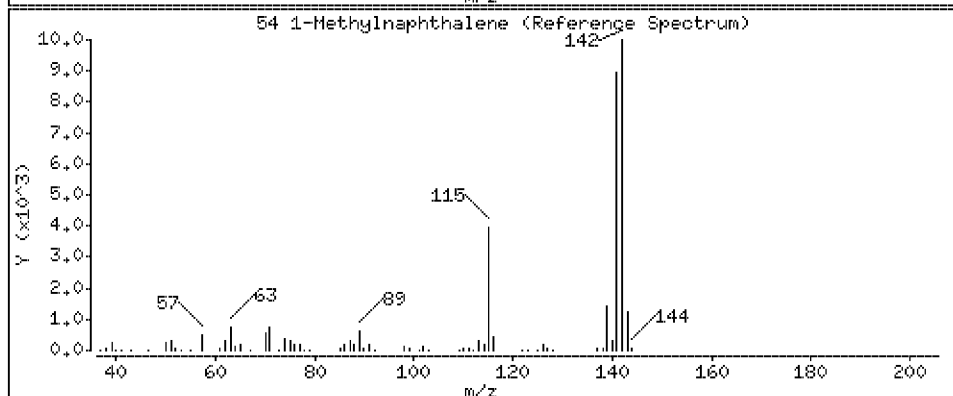
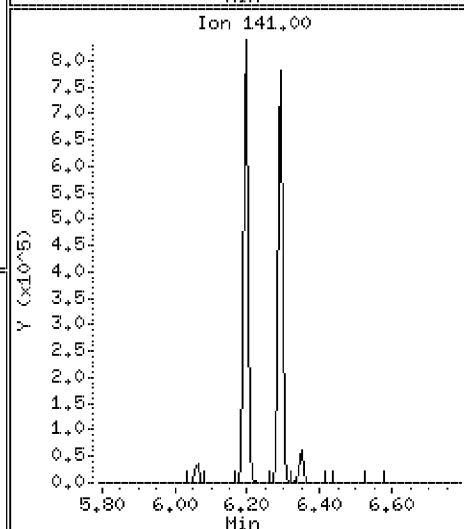
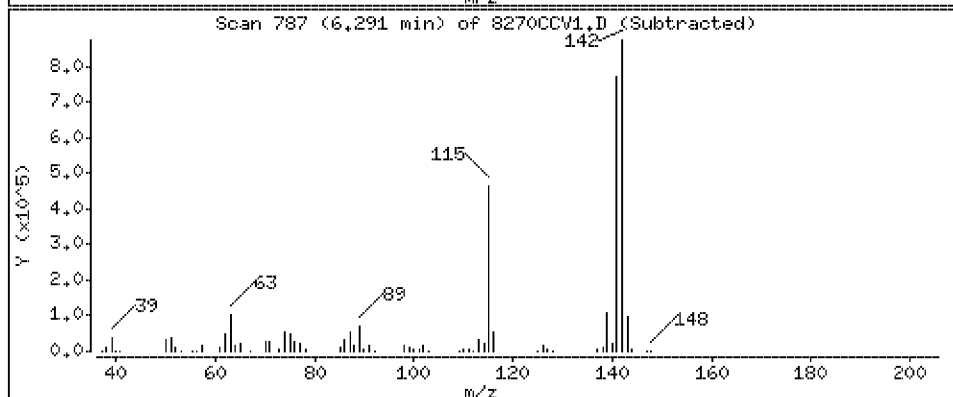
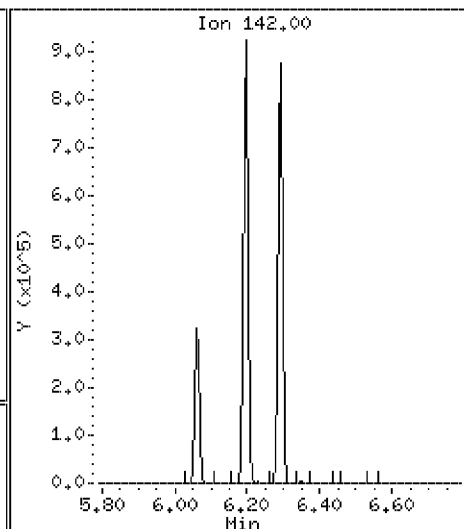
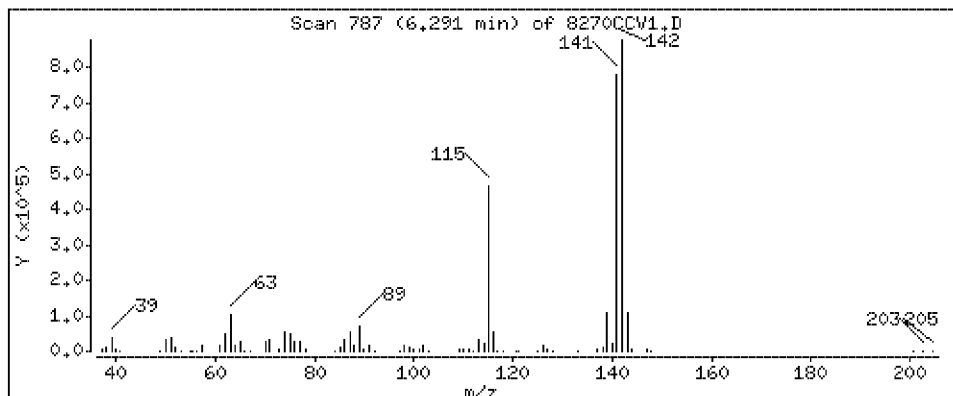
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

54 1-Methylnaphthalene

Concentration: 47.1 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

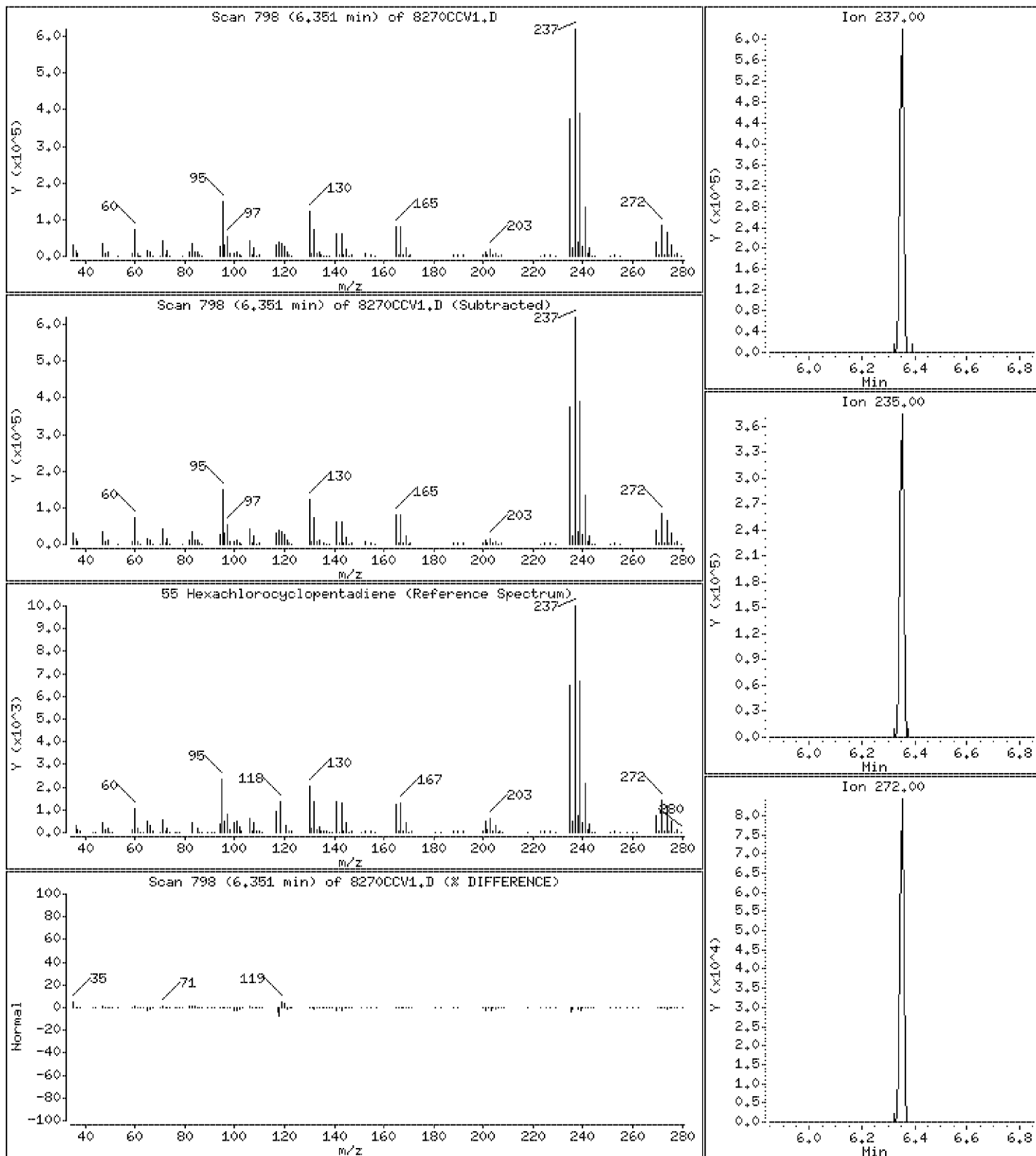
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

55 Hexachlorocyclopentadiene

Concentration: 46.4 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

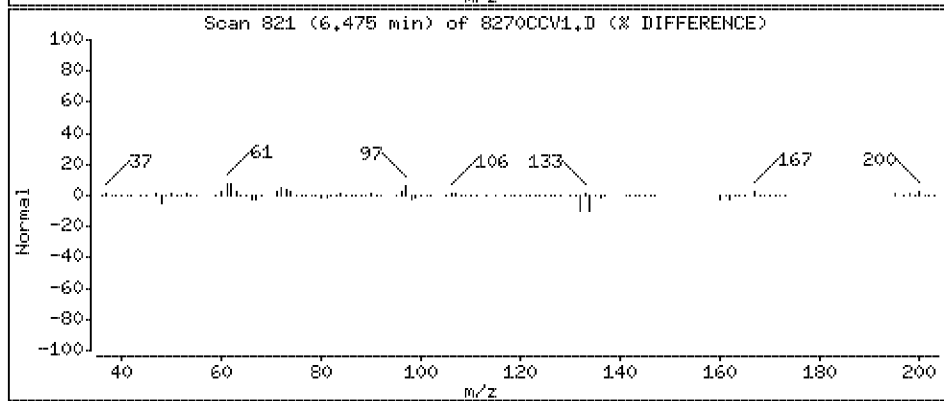
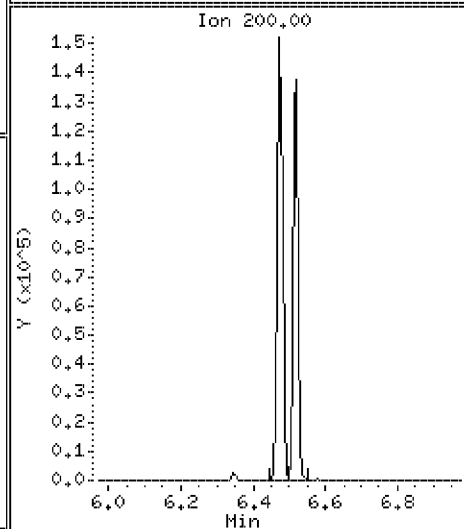
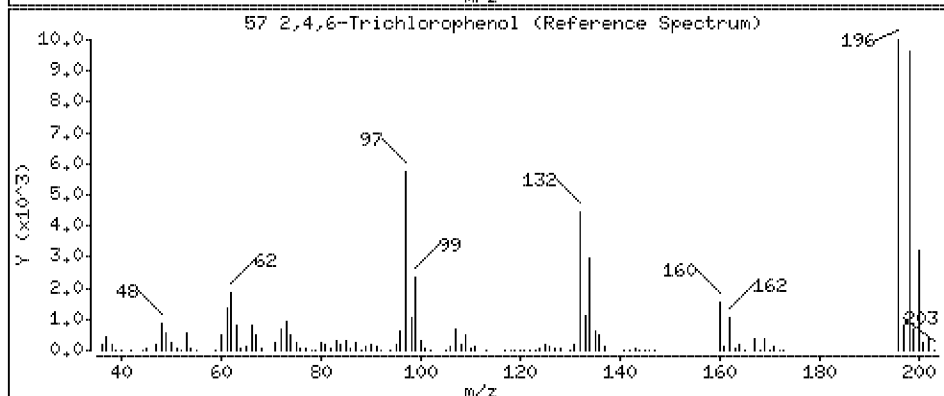
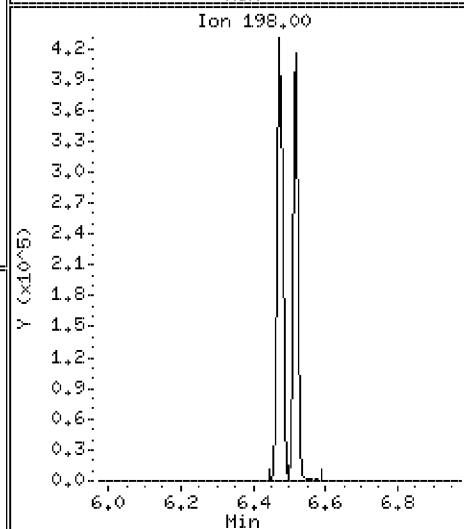
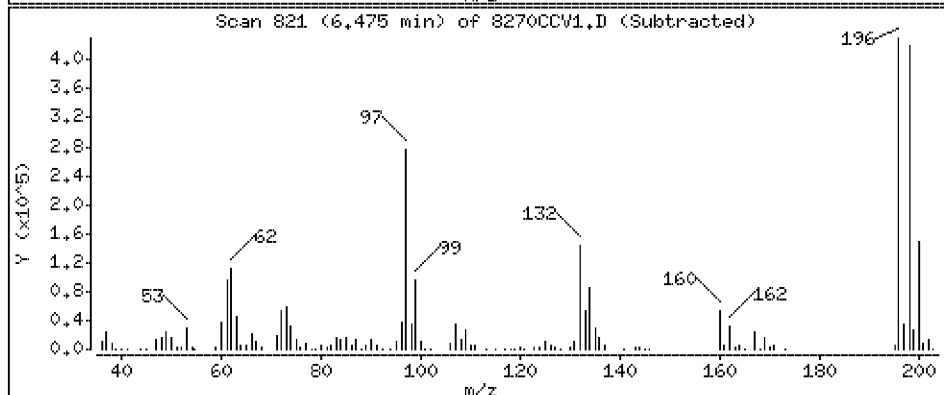
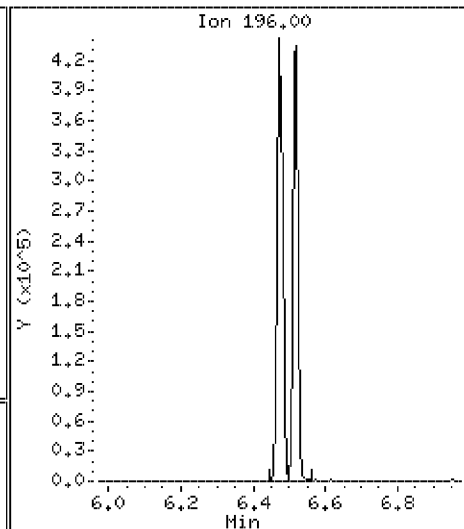
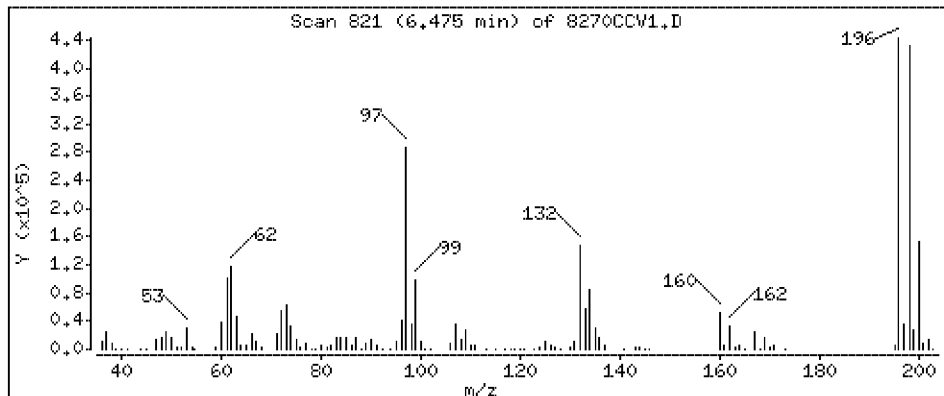
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

57 2,4,6-Trichlorophenol

Concentration: 43.2 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

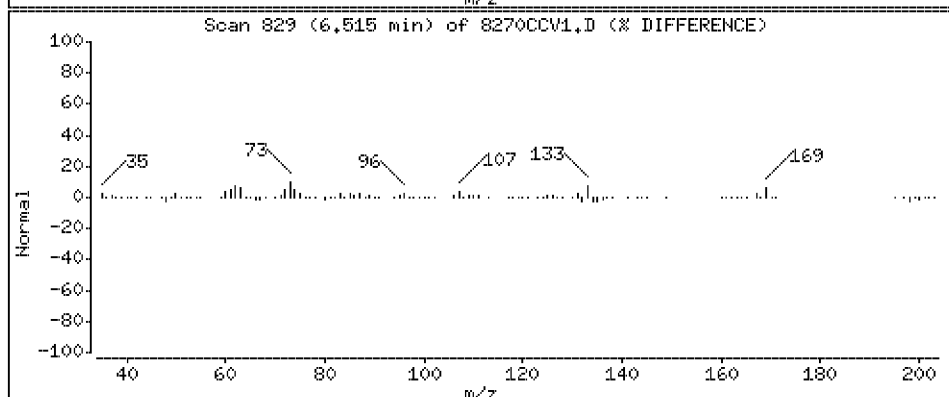
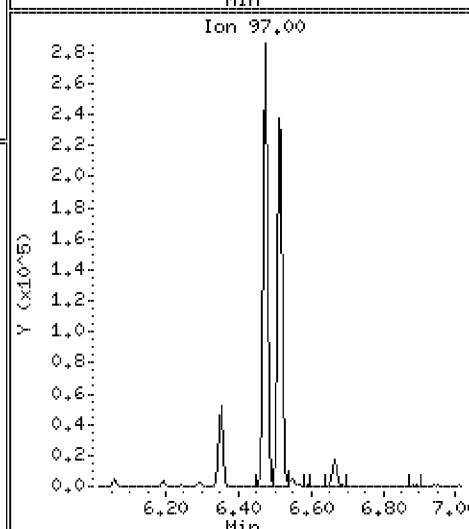
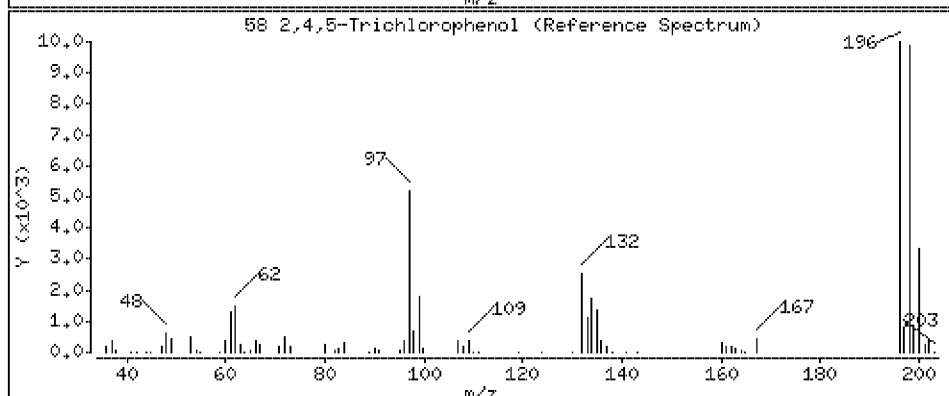
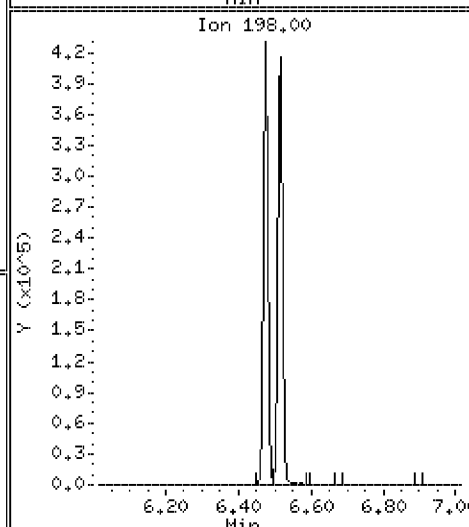
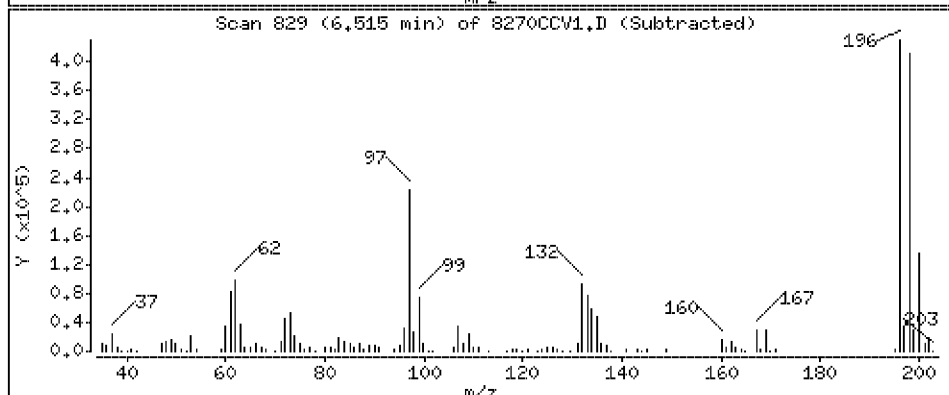
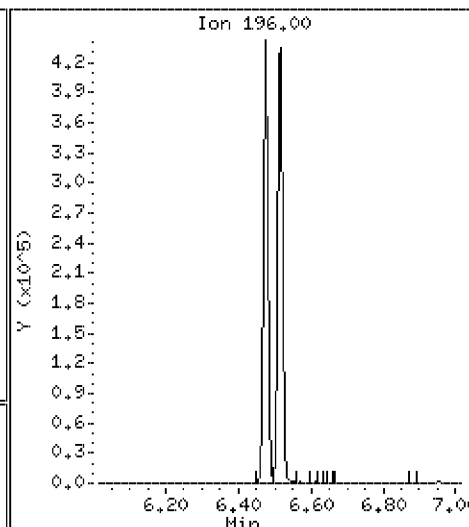
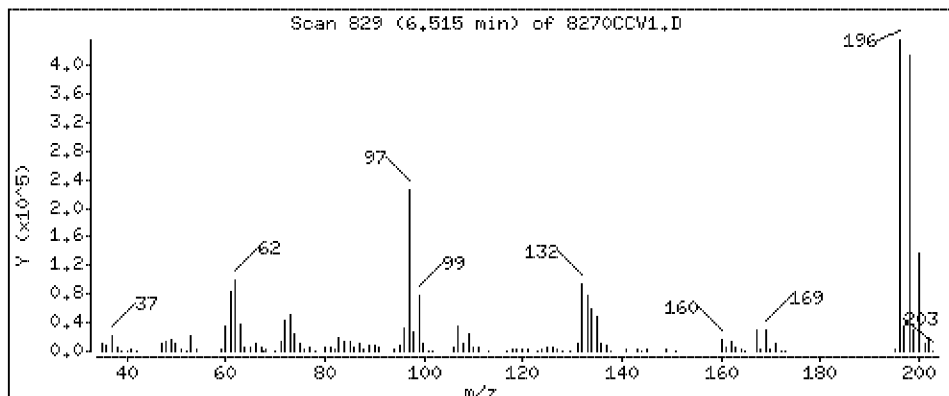
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

58 2,4,5-Trichlorophenol

Concentration: 53.0 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

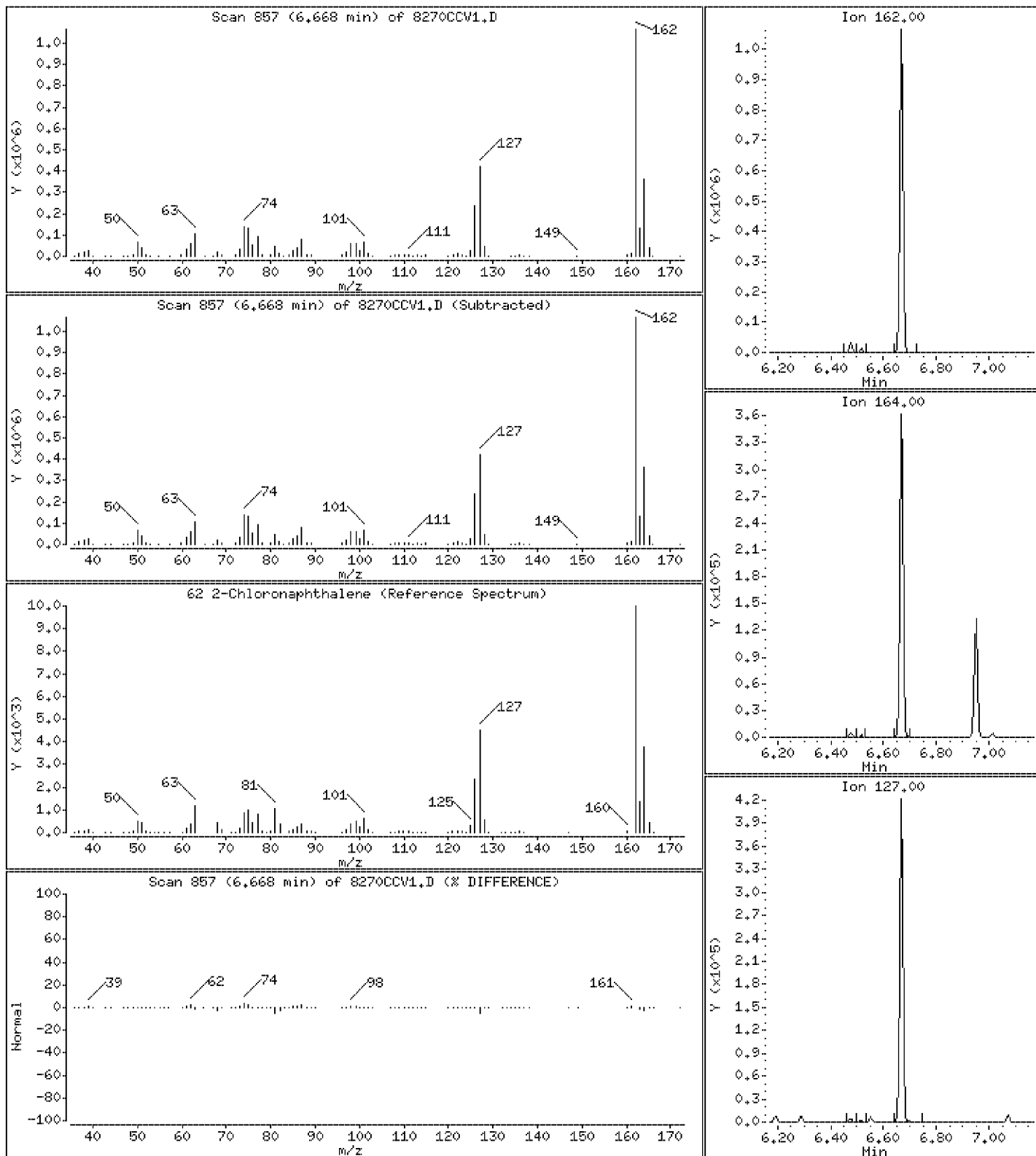
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

62 2-Chloronaphthalene

Concentration: 46.0 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

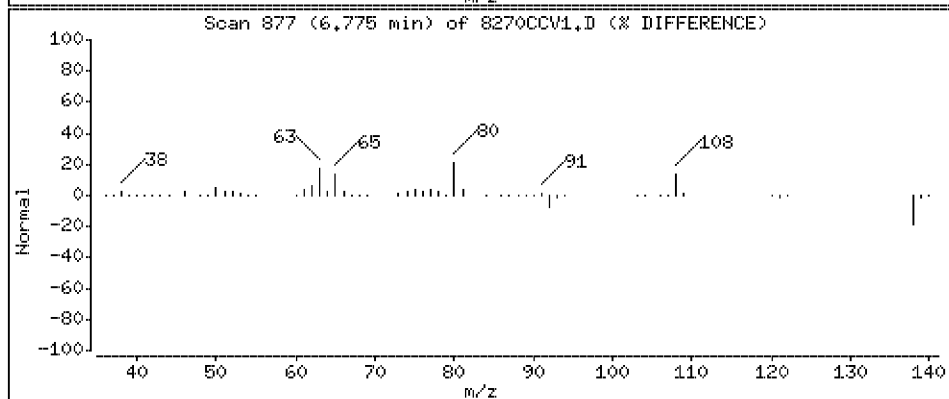
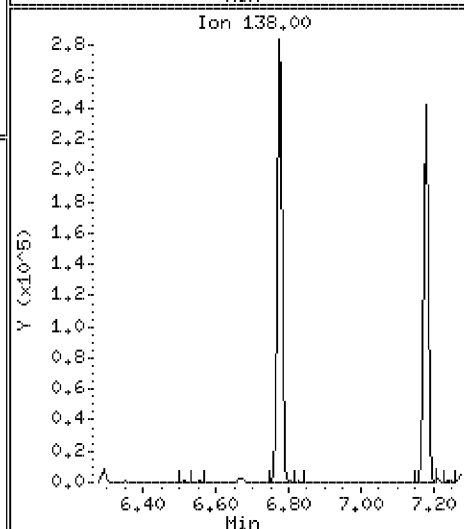
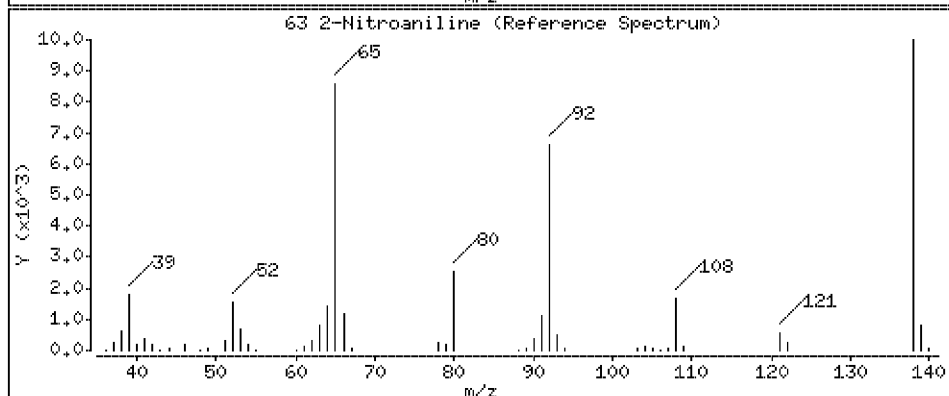
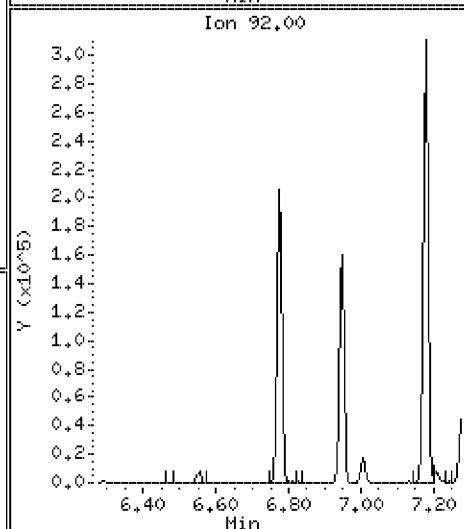
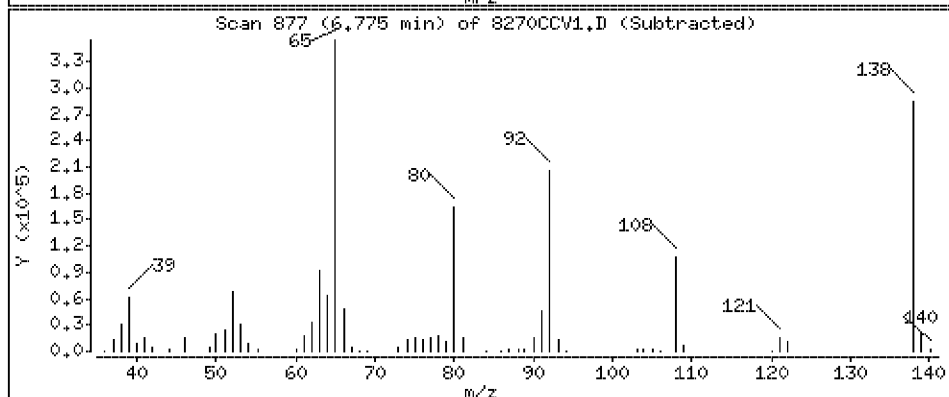
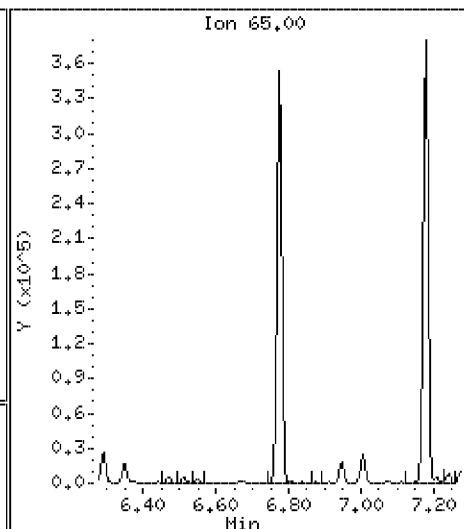
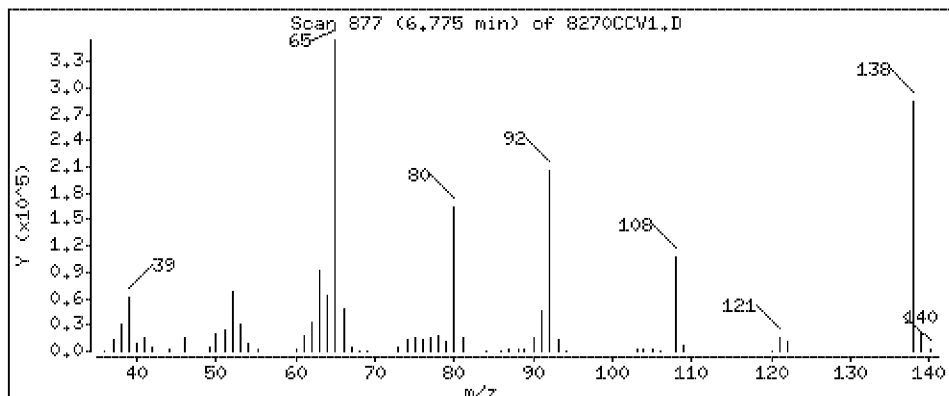
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

63 2-Nitroaniline

Concentration: 48.3 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

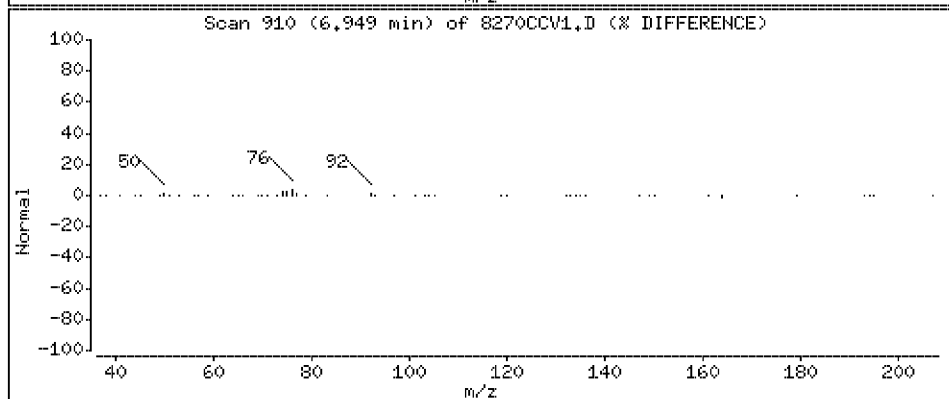
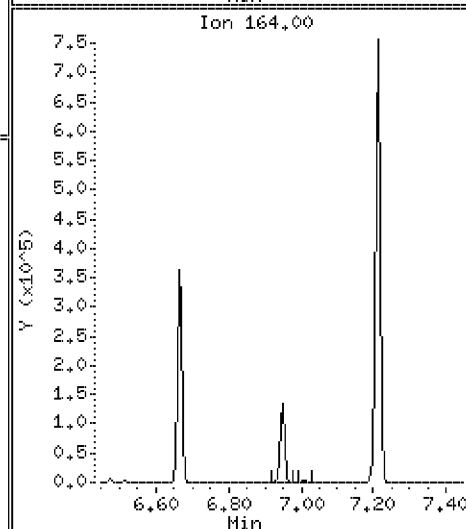
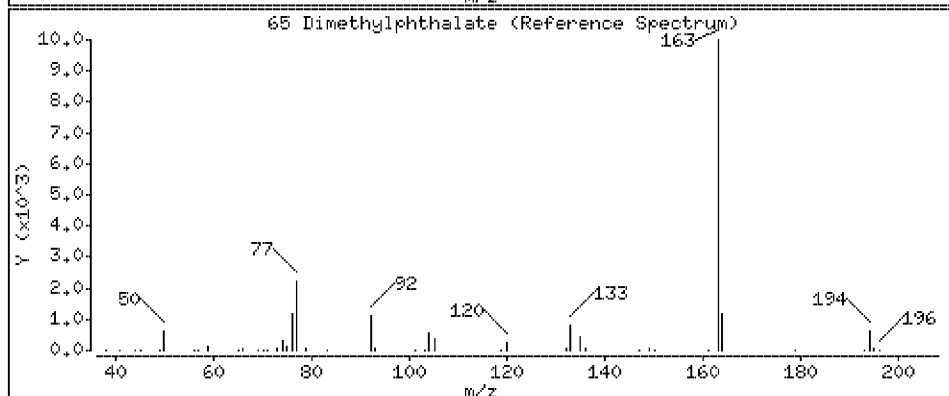
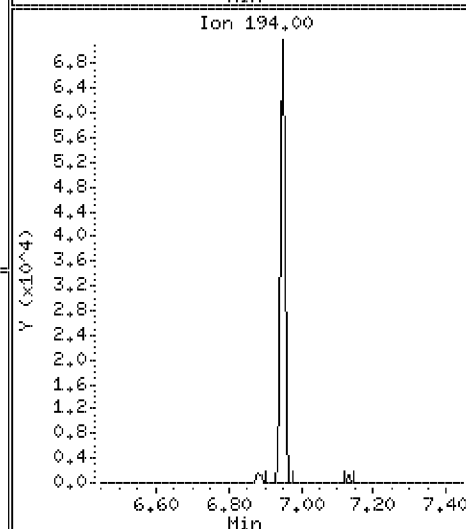
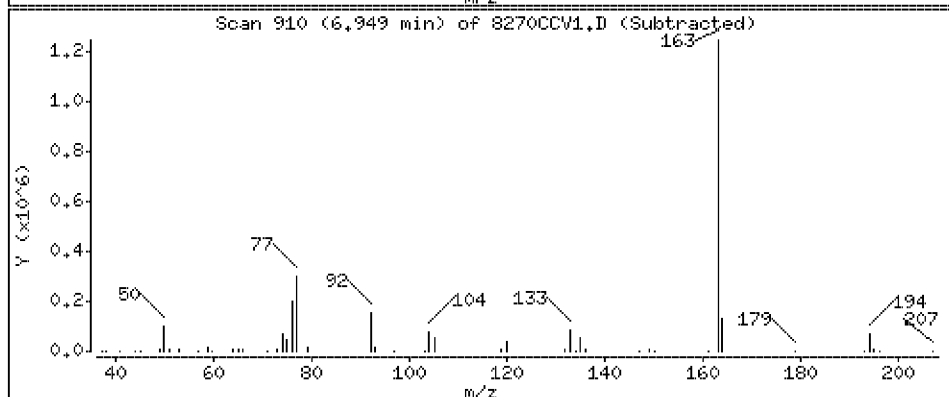
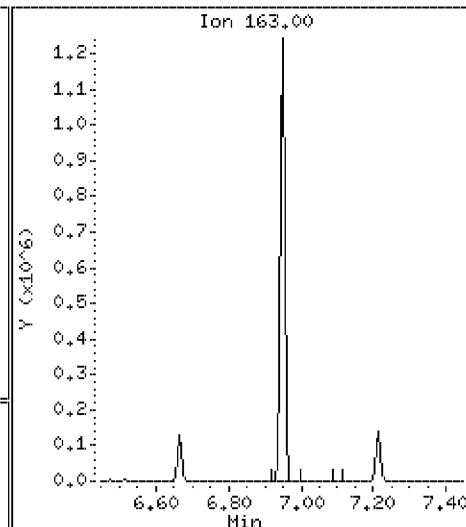
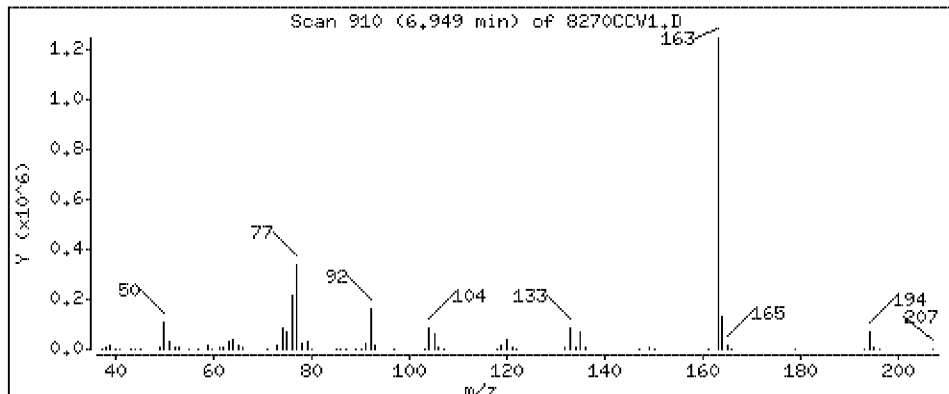
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

65 Dimethylphthalate

Concentration: 47.8 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

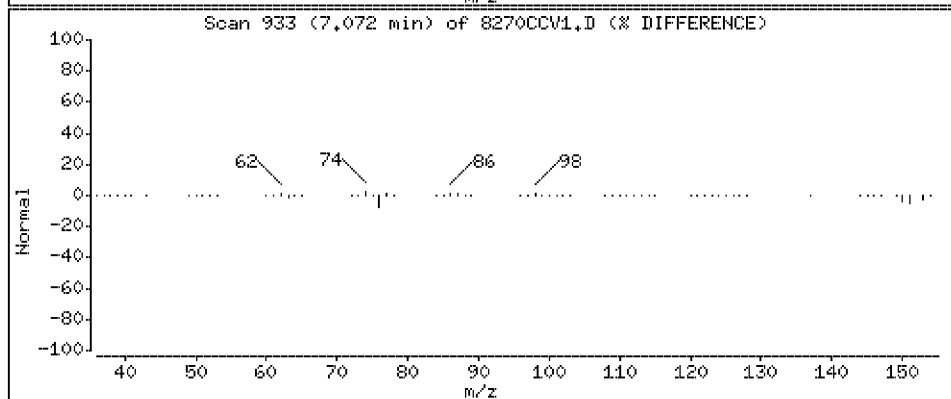
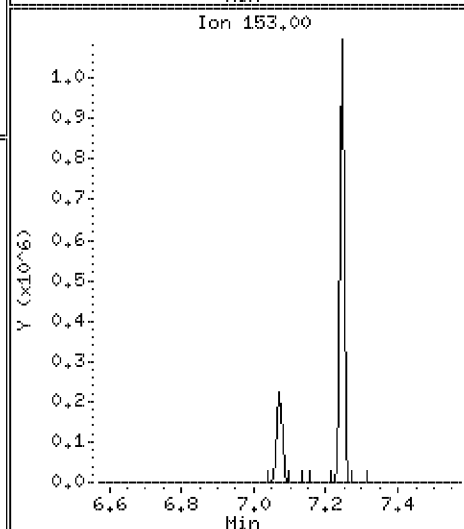
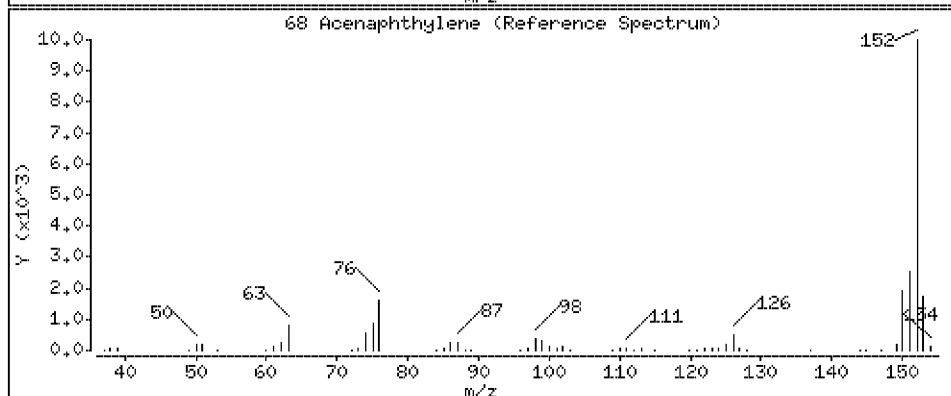
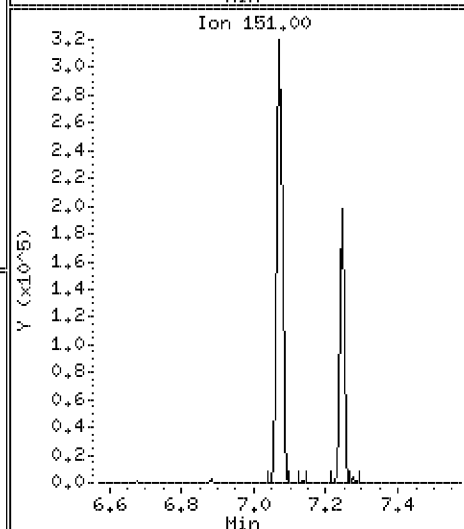
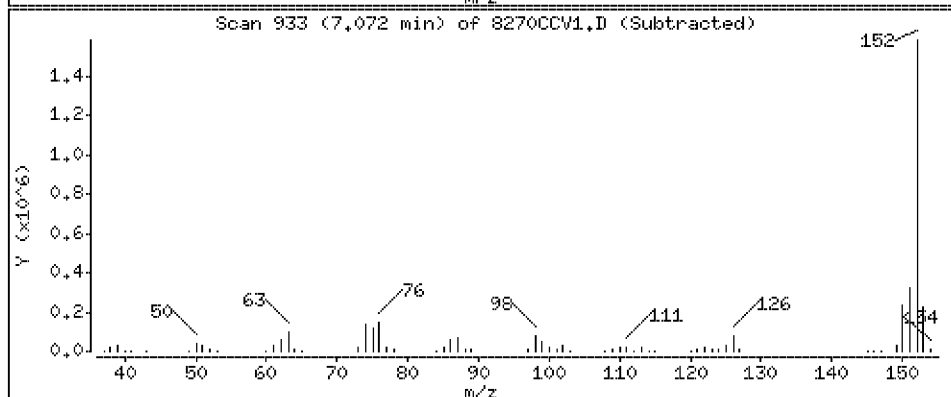
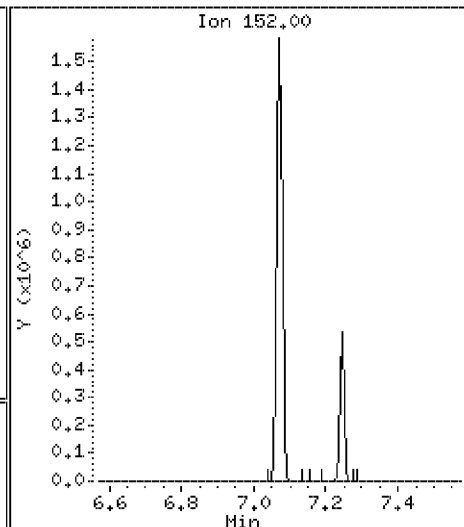
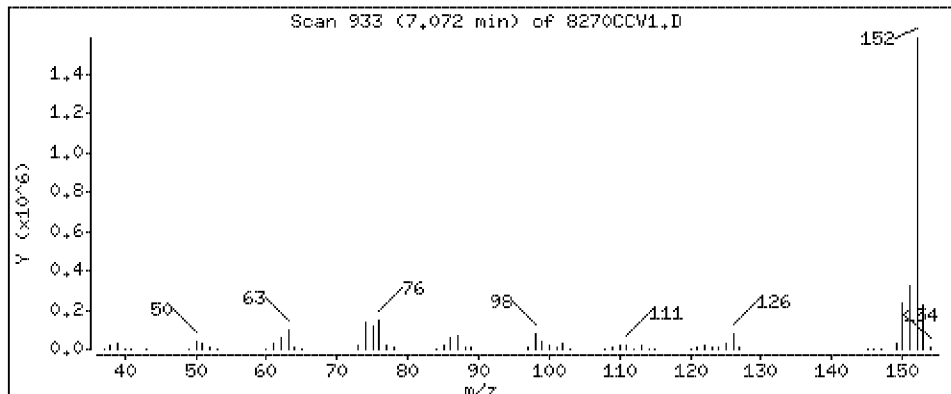
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

68 Acenaphthylene

Concentration: 47.0 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

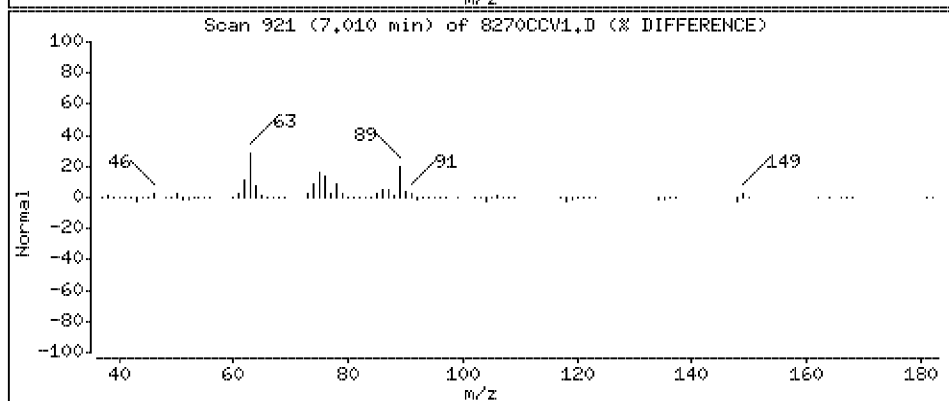
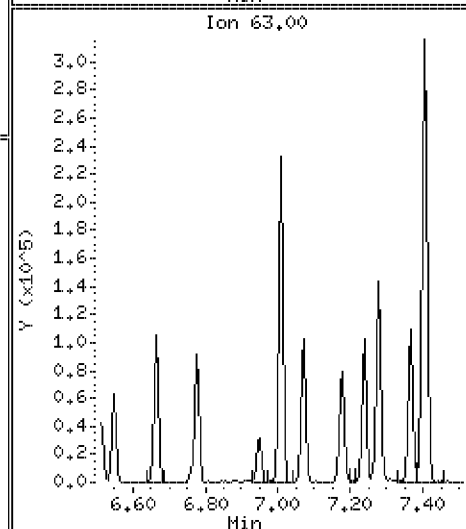
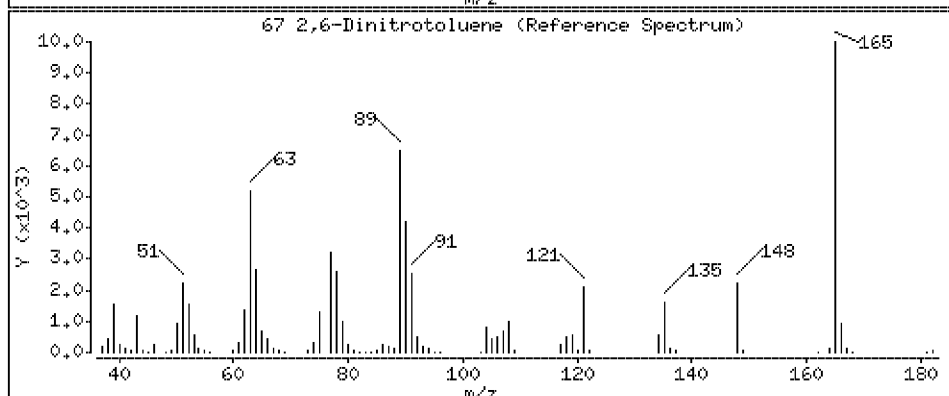
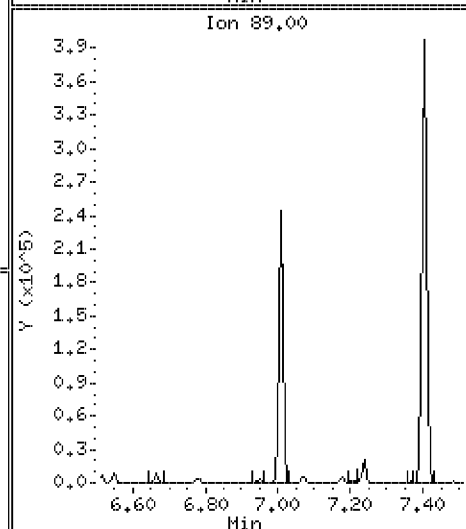
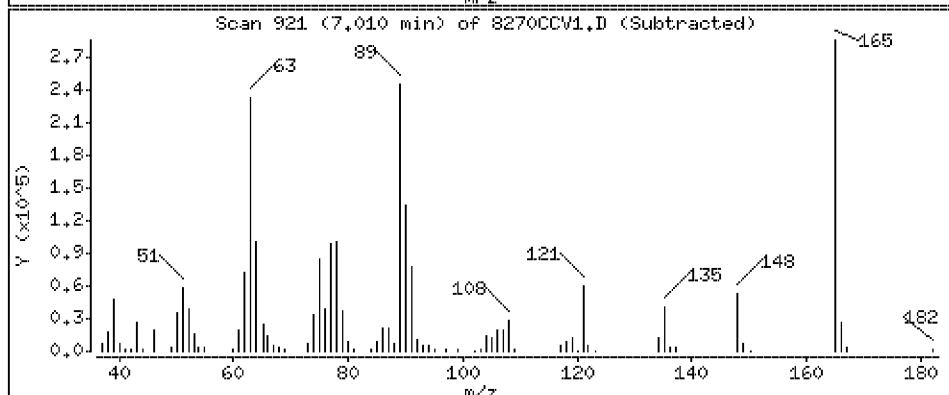
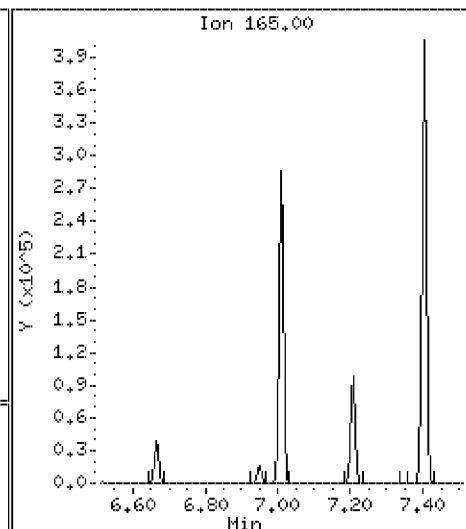
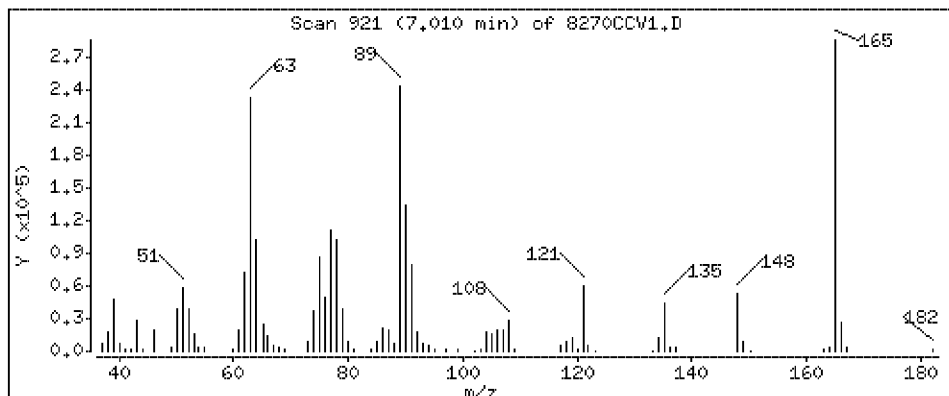
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

67 2,6-Dinitrotoluene

Concentration: 47.5 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

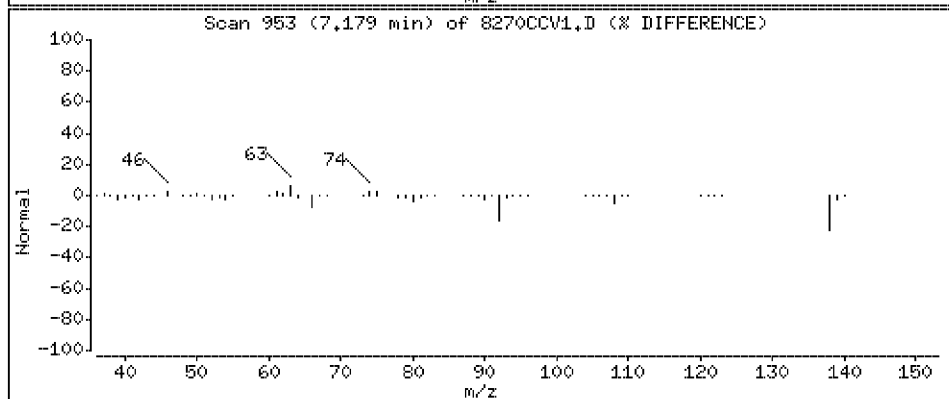
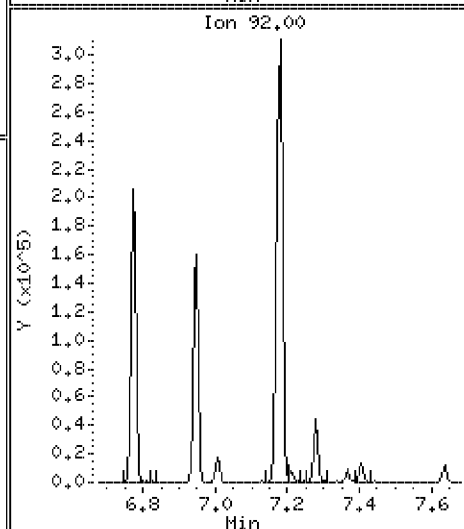
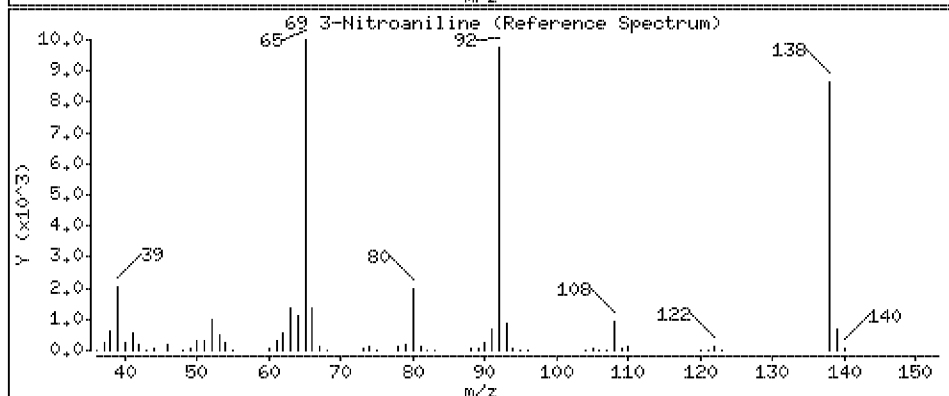
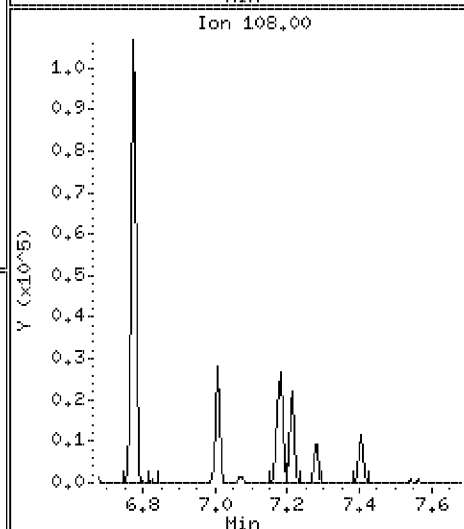
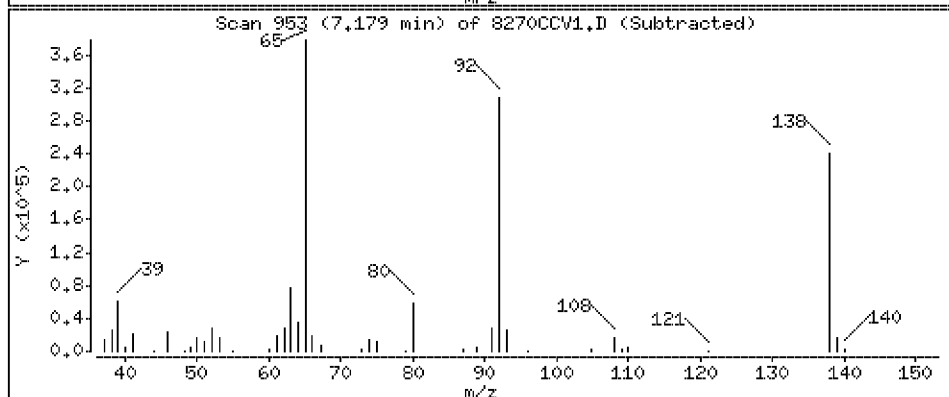
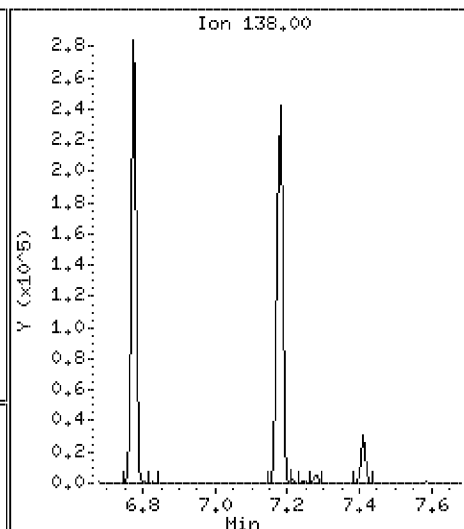
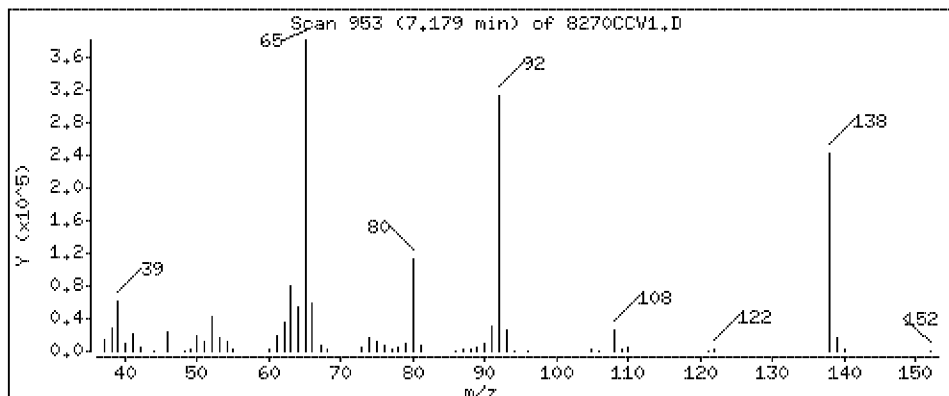
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

69 3-Nitroaniline

Concentration: 46.6 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

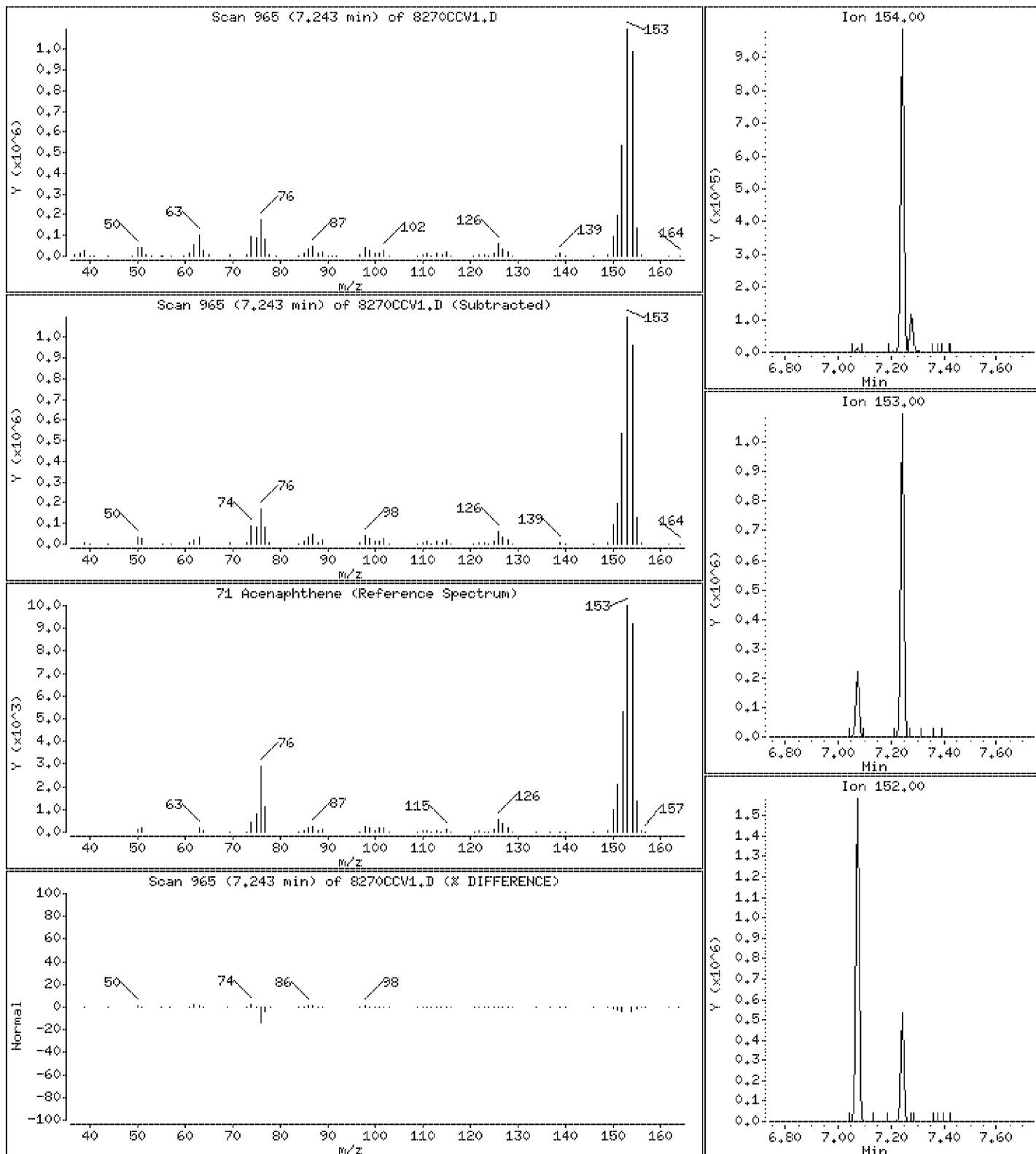
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

71 Acenaphthene

Concentration: 45.9 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

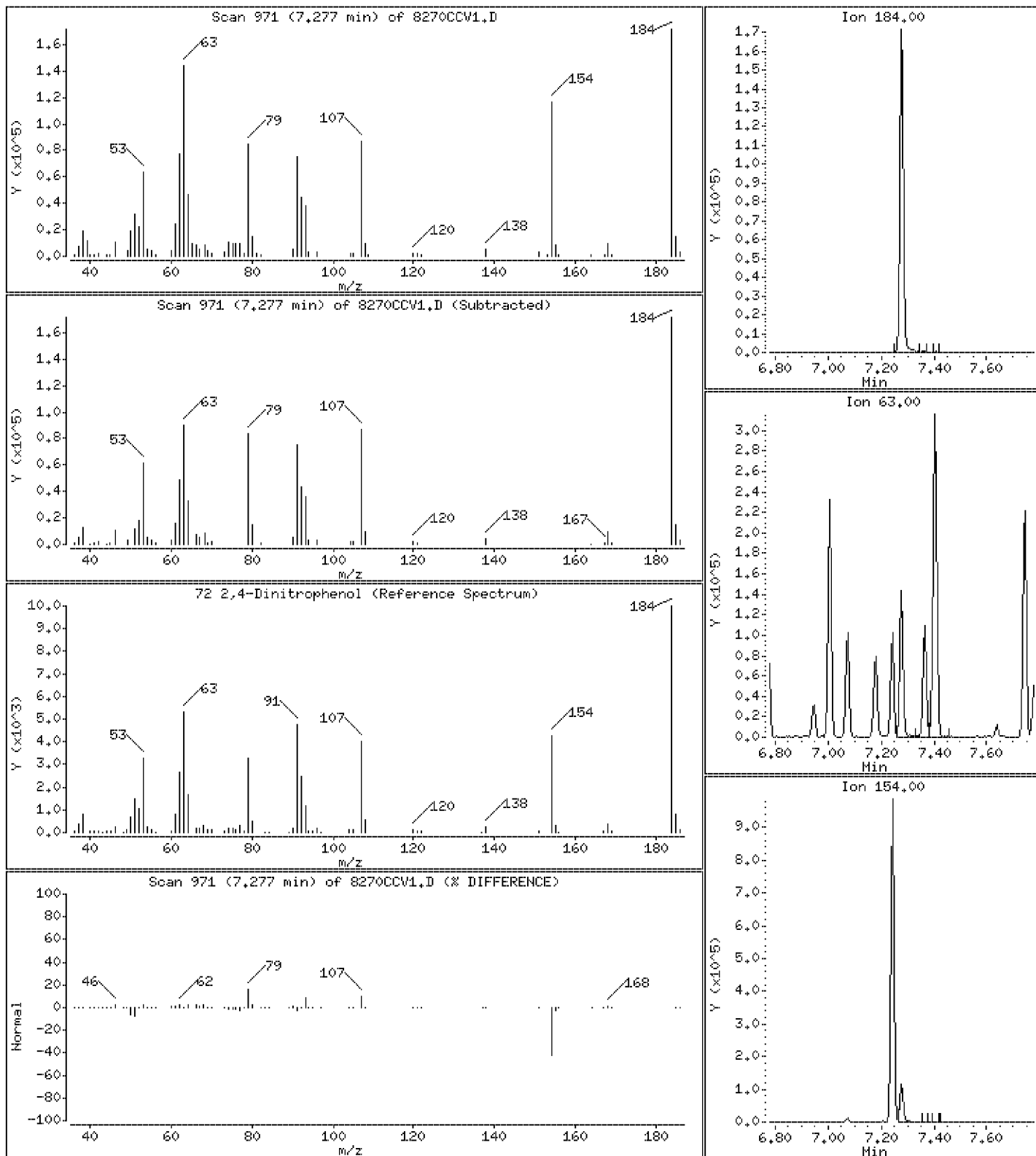
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

72 2,4-Dinitrophenol

Concentration: 46.3 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

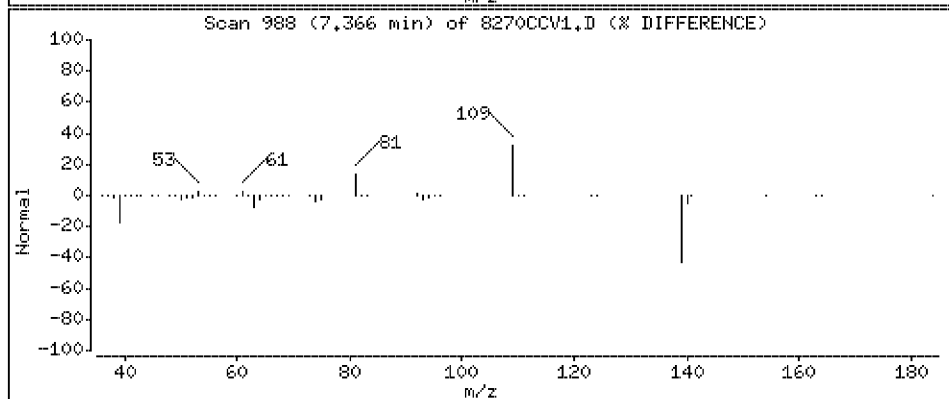
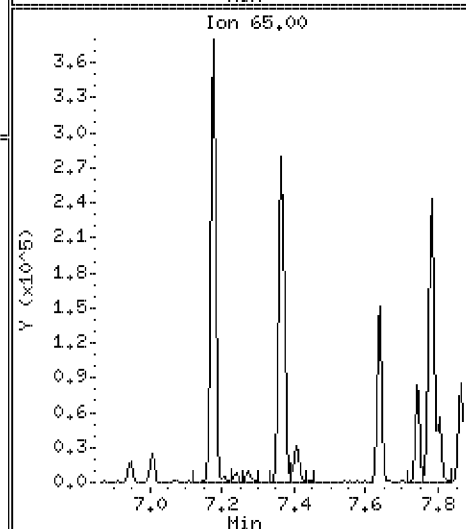
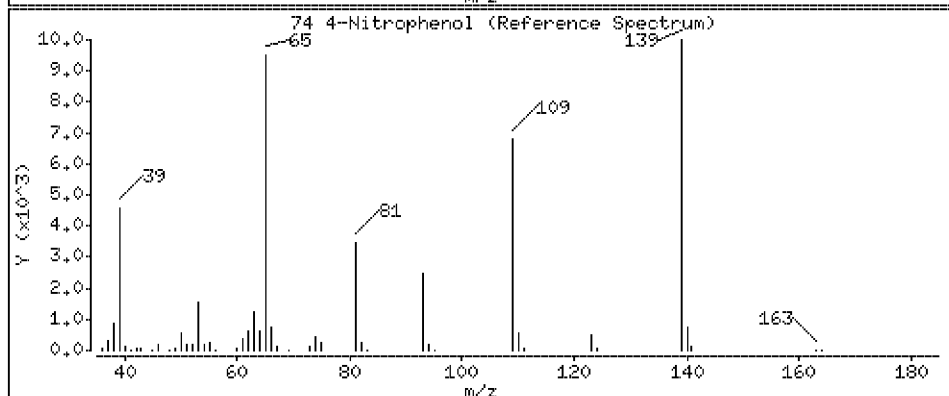
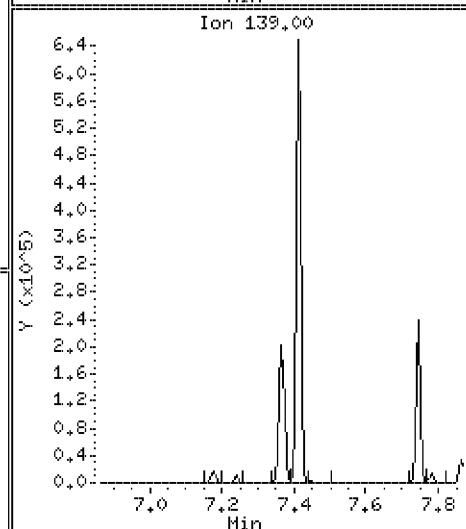
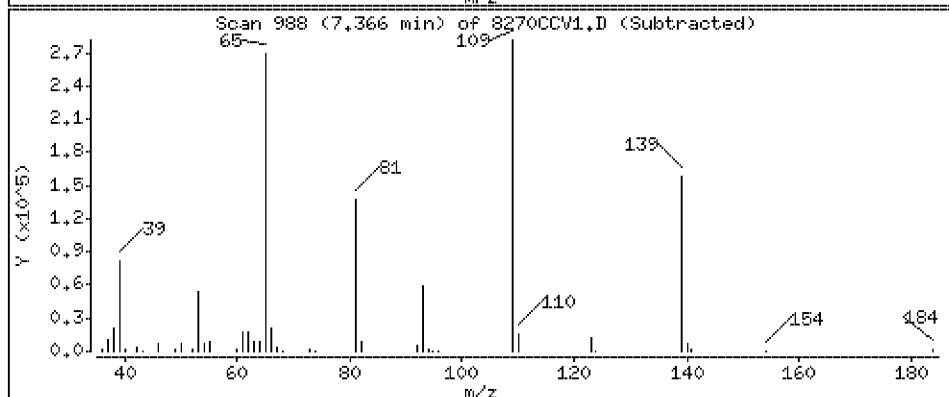
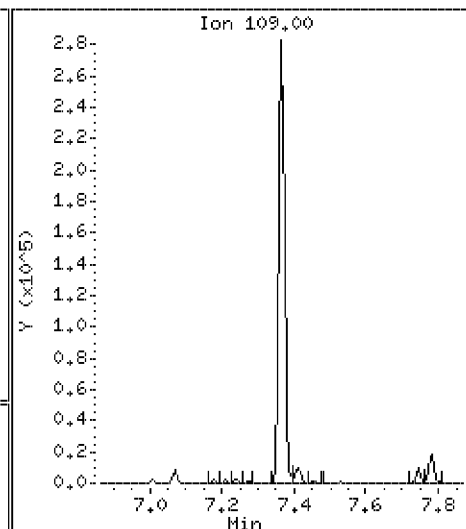
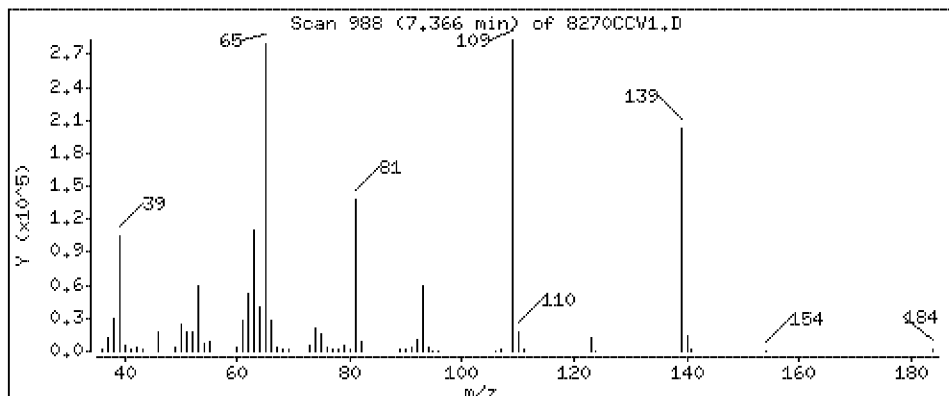
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

74 4-Nitrophenol

Concentration: 50.9 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

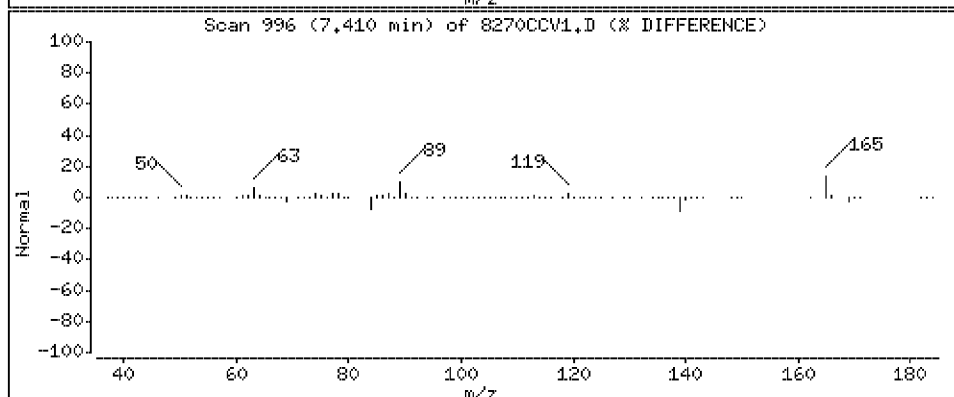
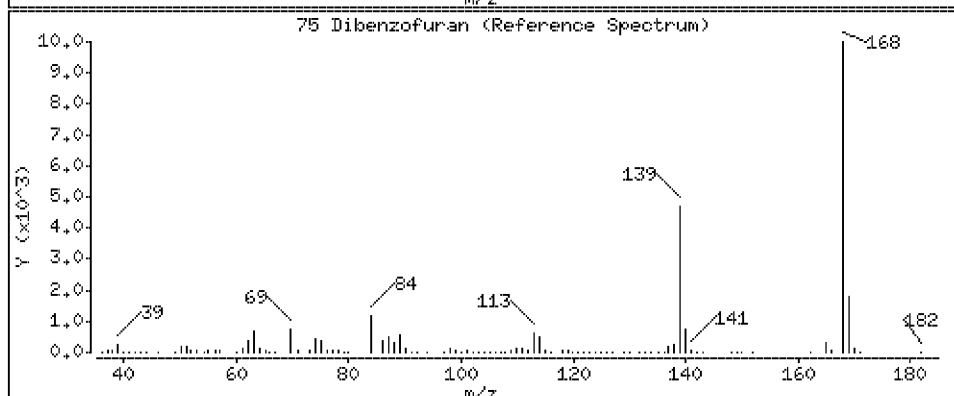
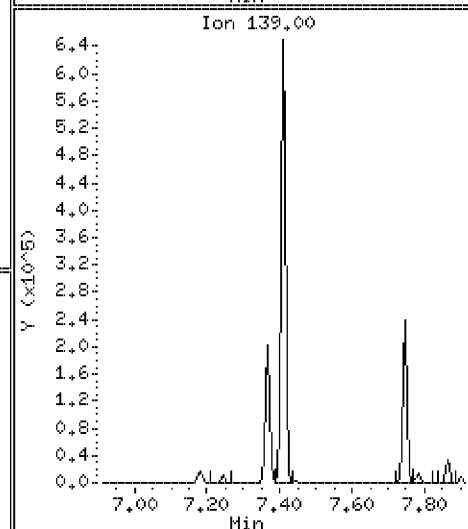
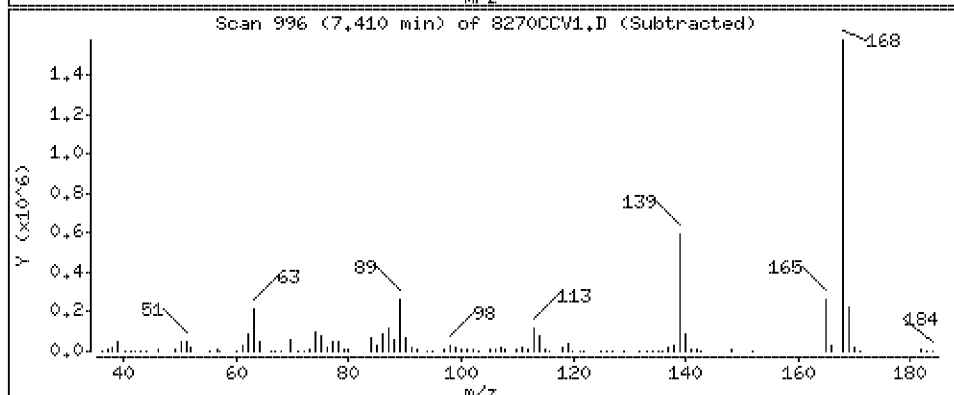
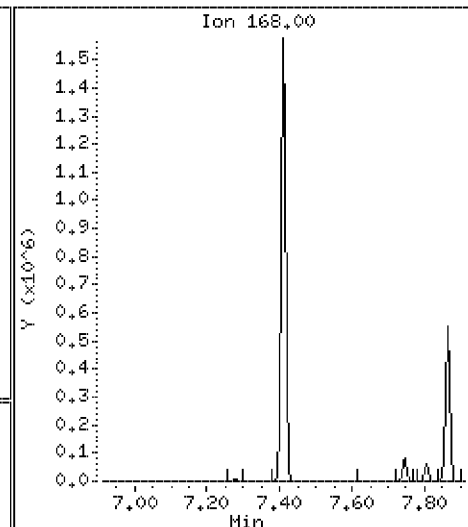
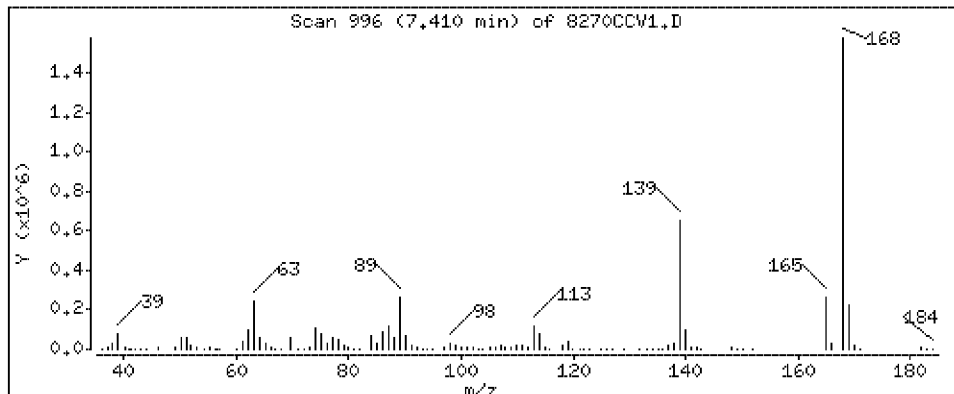
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

75 Dibenzofuran

Concentration: 48.0 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

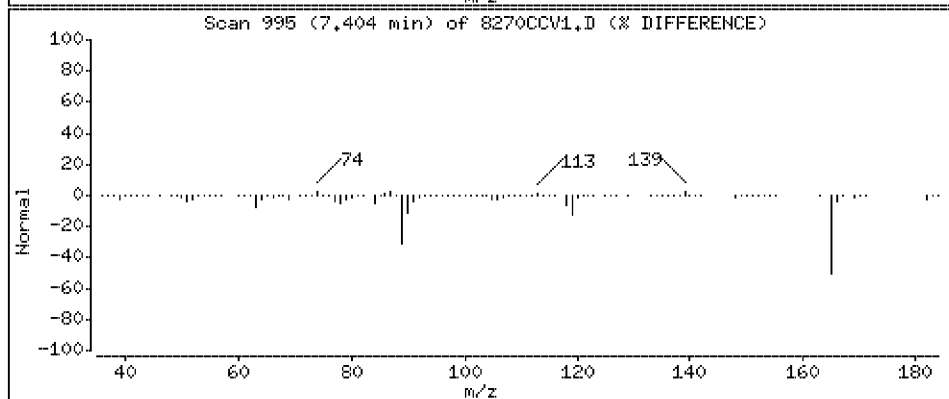
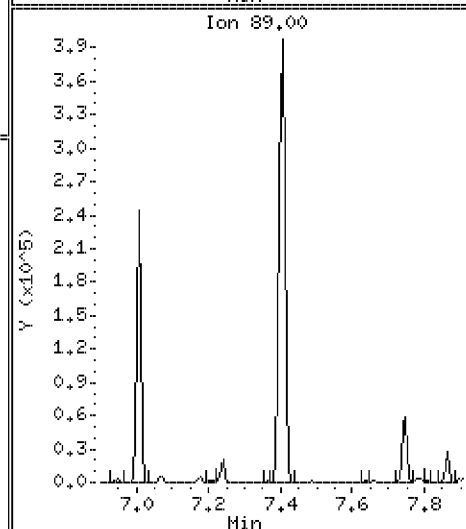
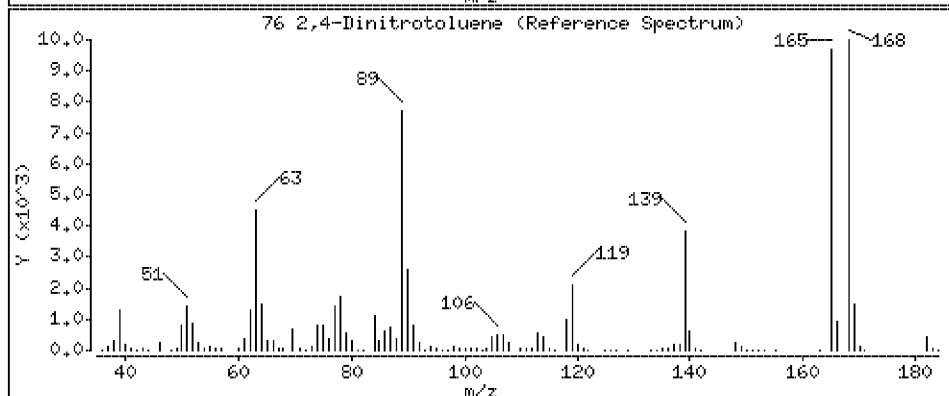
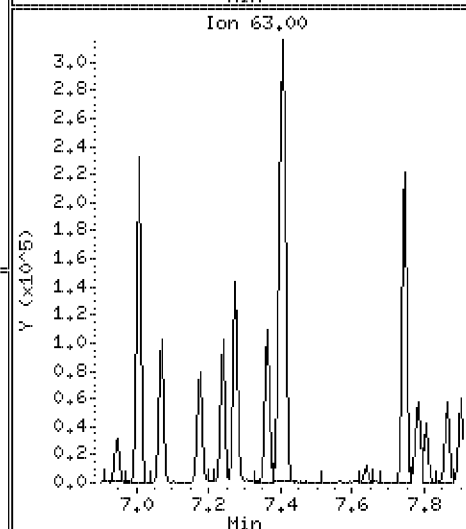
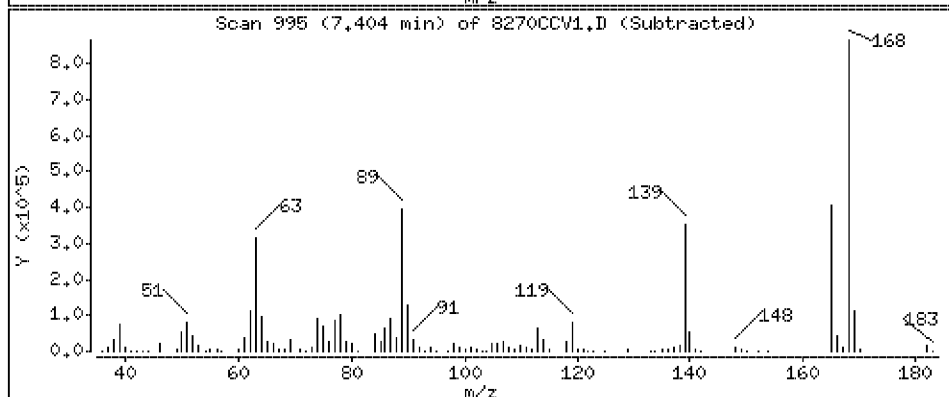
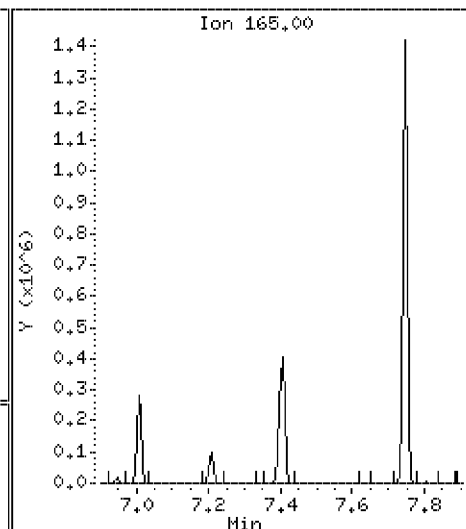
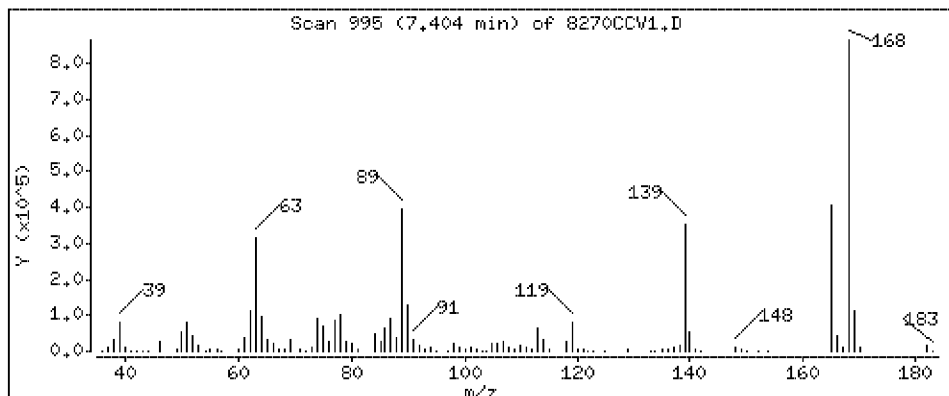
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

76 2,4-Dinitrotoluene

Concentration: 47.9 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

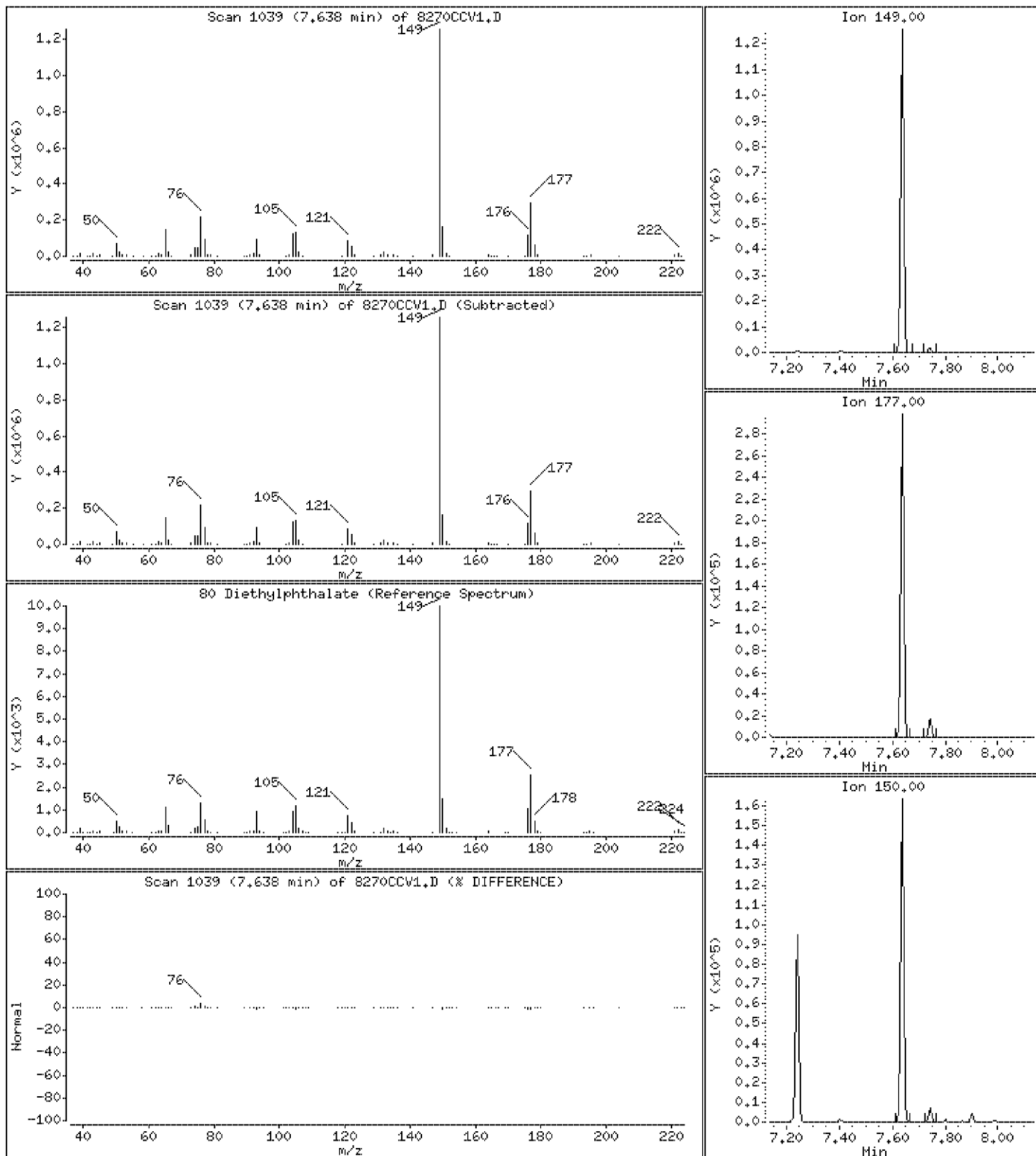
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

80 Diethylphthalate

Concentration: 48.5 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

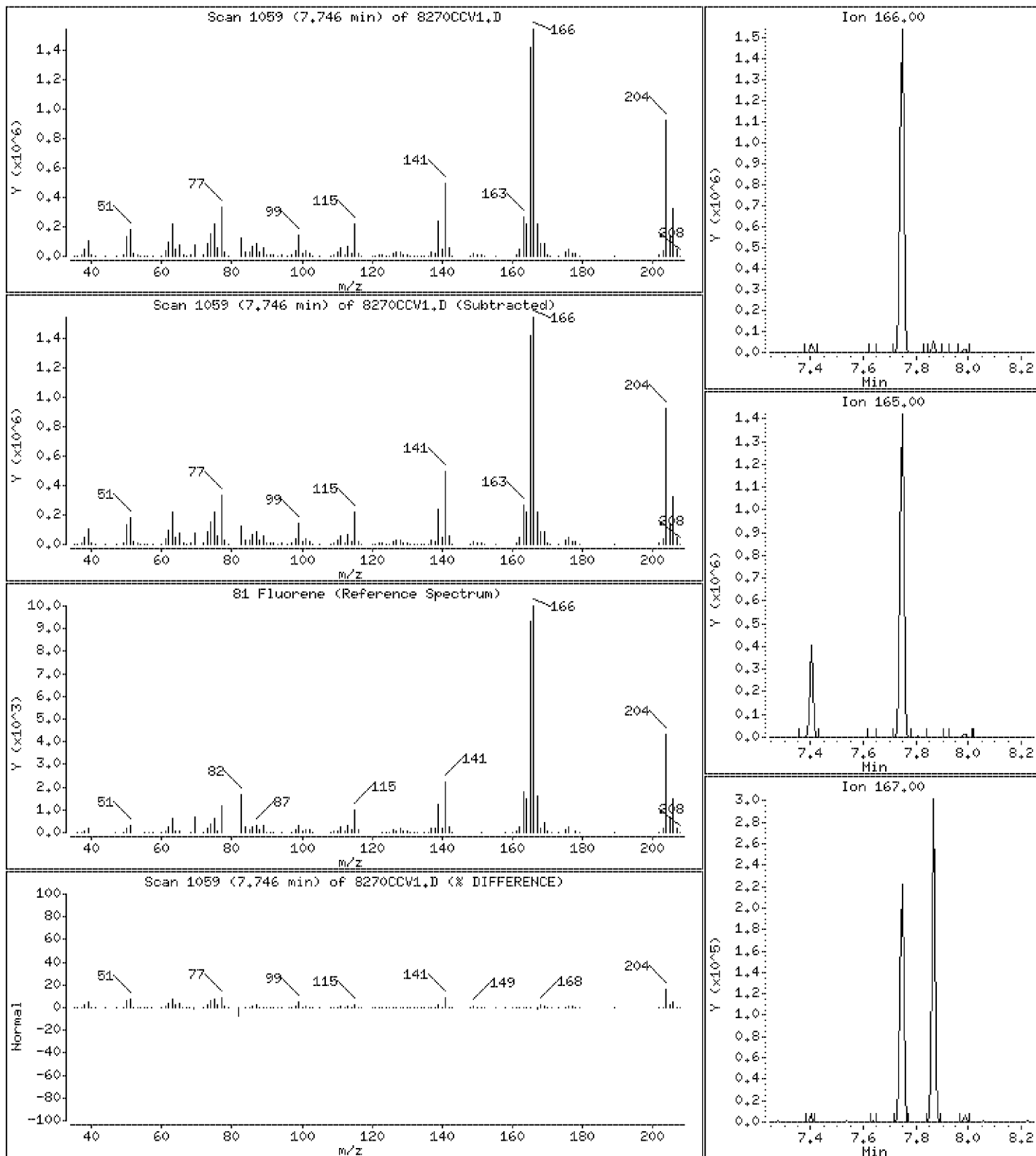
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

81 Fluorene

Concentration: 49.6 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

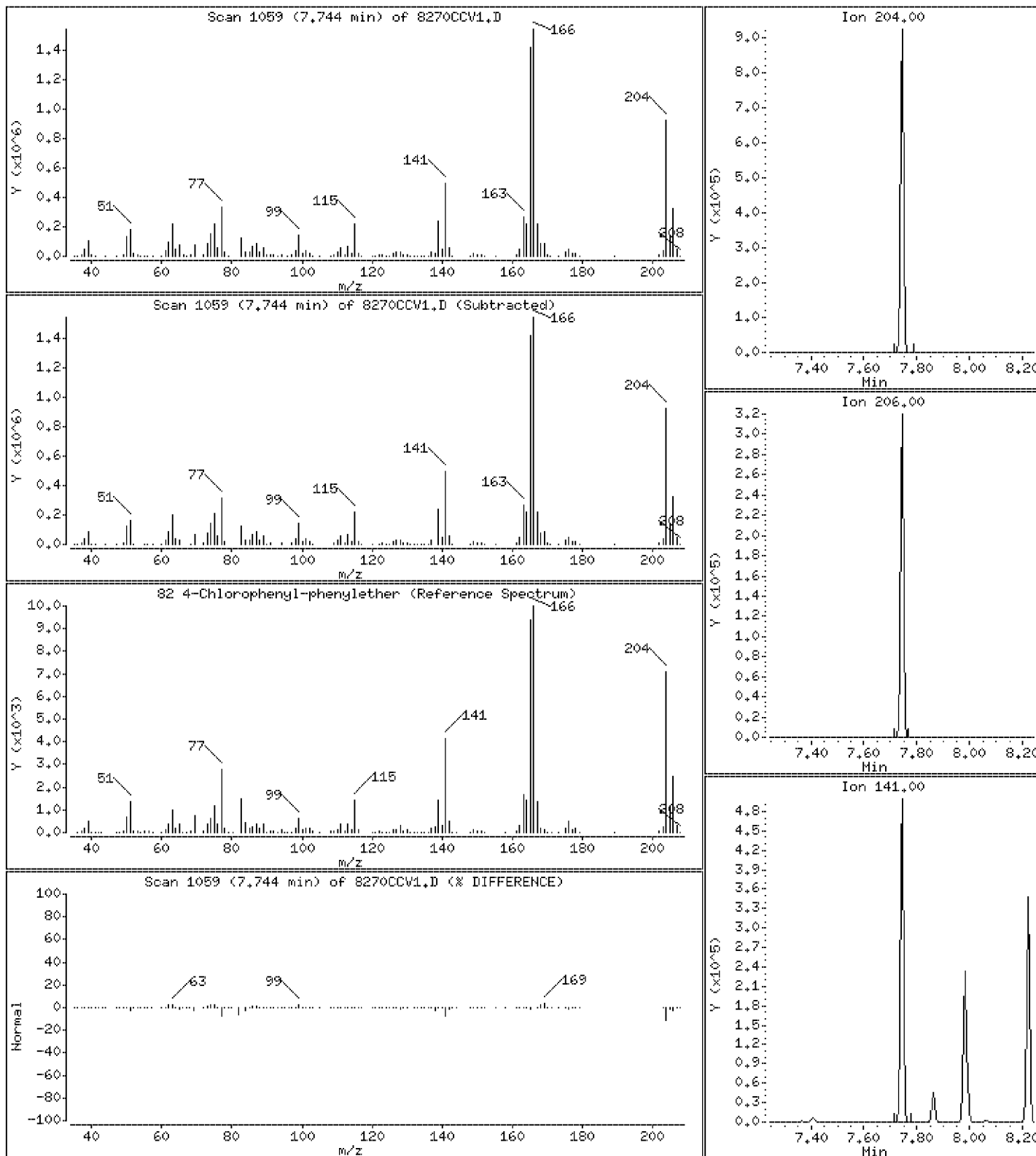
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

82 4-Chlorophenyl-phenylether

Concentration: 49.1 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

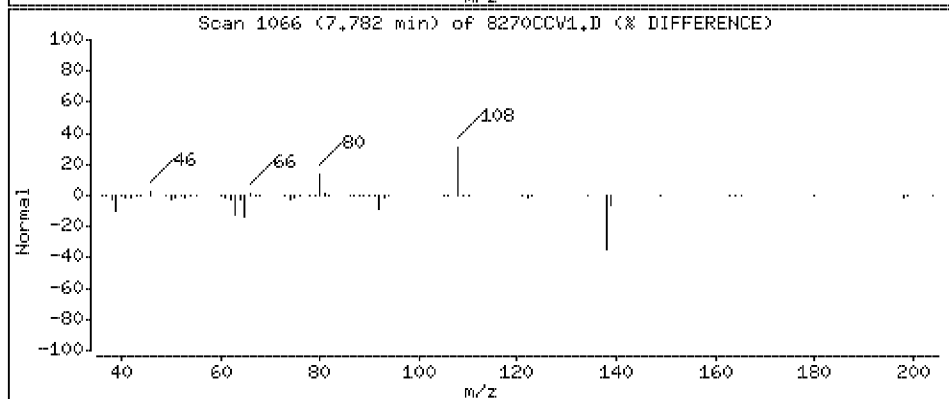
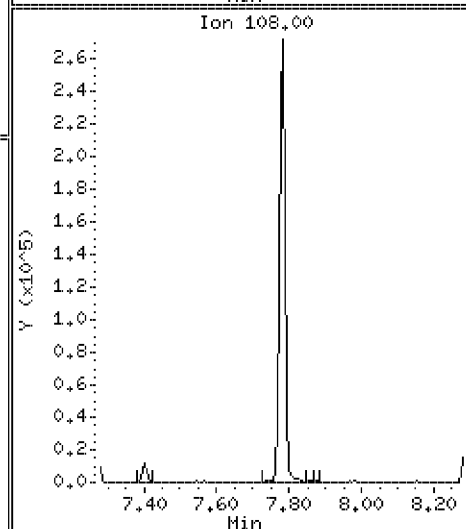
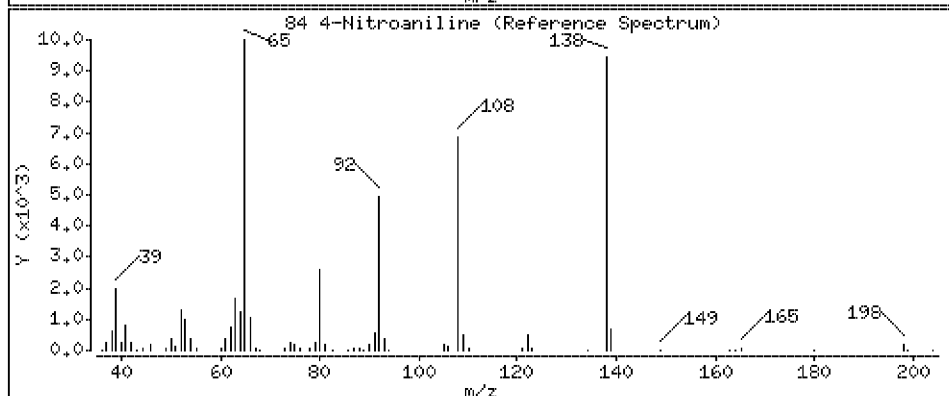
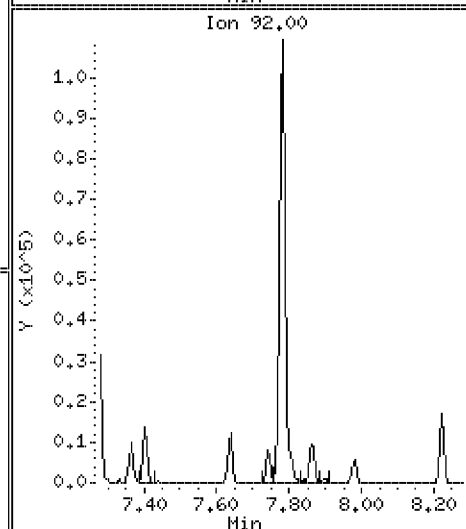
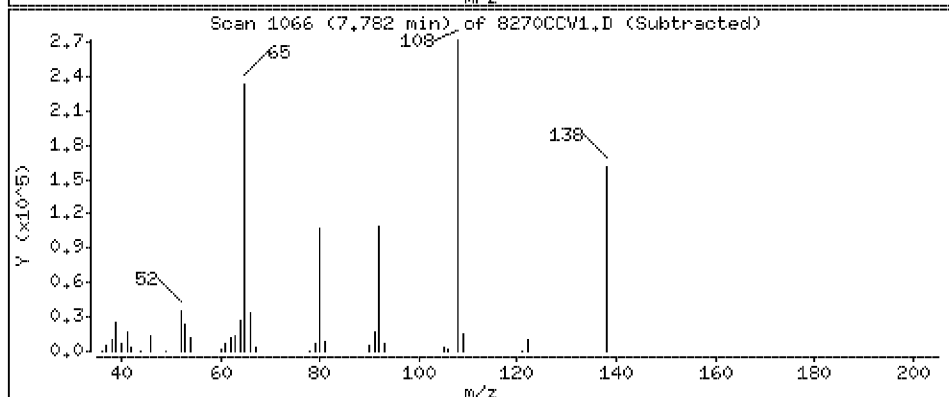
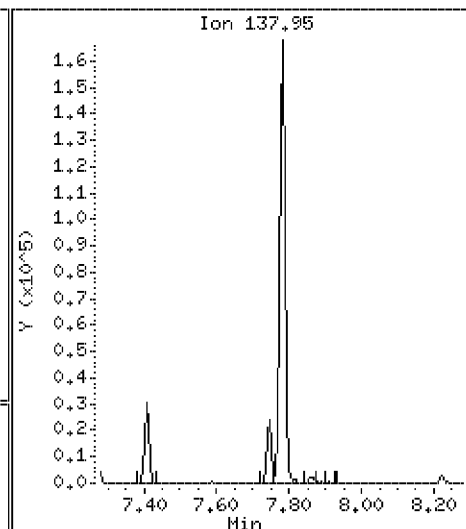
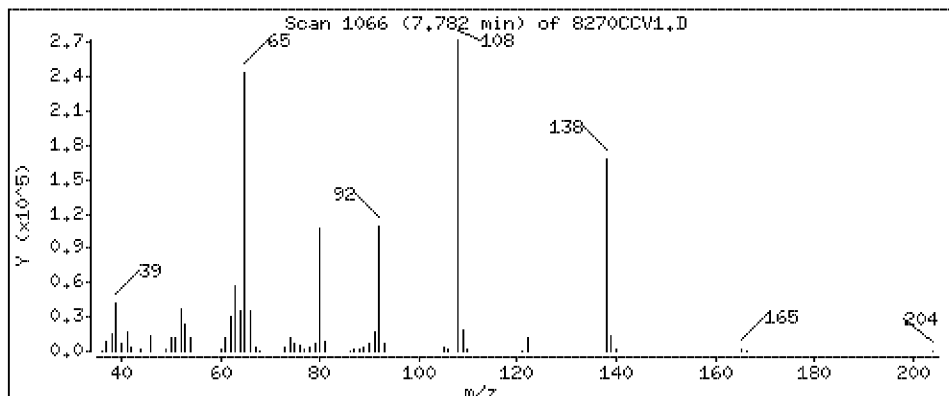
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

84 4-Nitroaniline

Concentration: 43.5 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

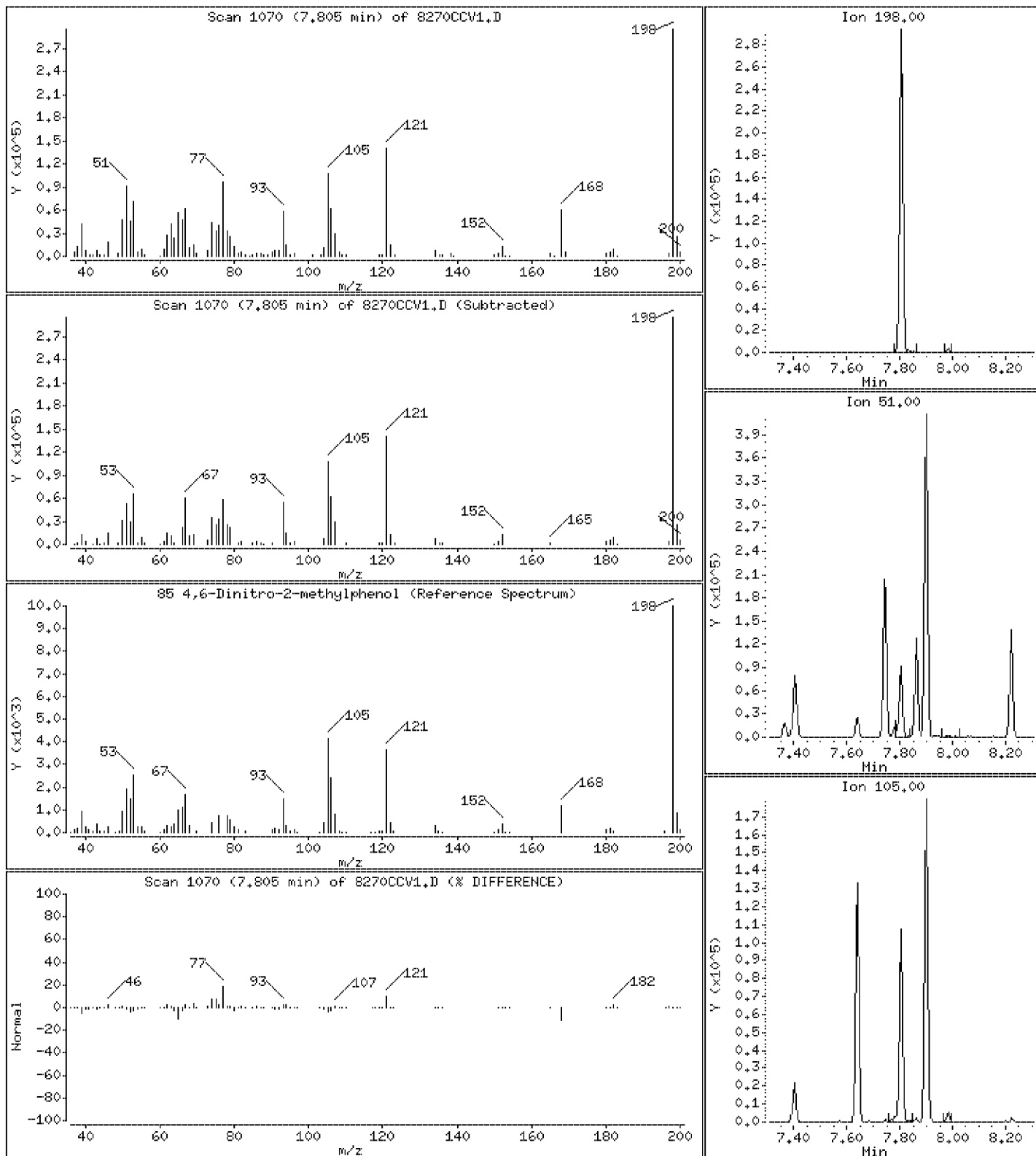
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

85 4,6-Dinitro-2-methylphenol

Concentration: 45.0 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

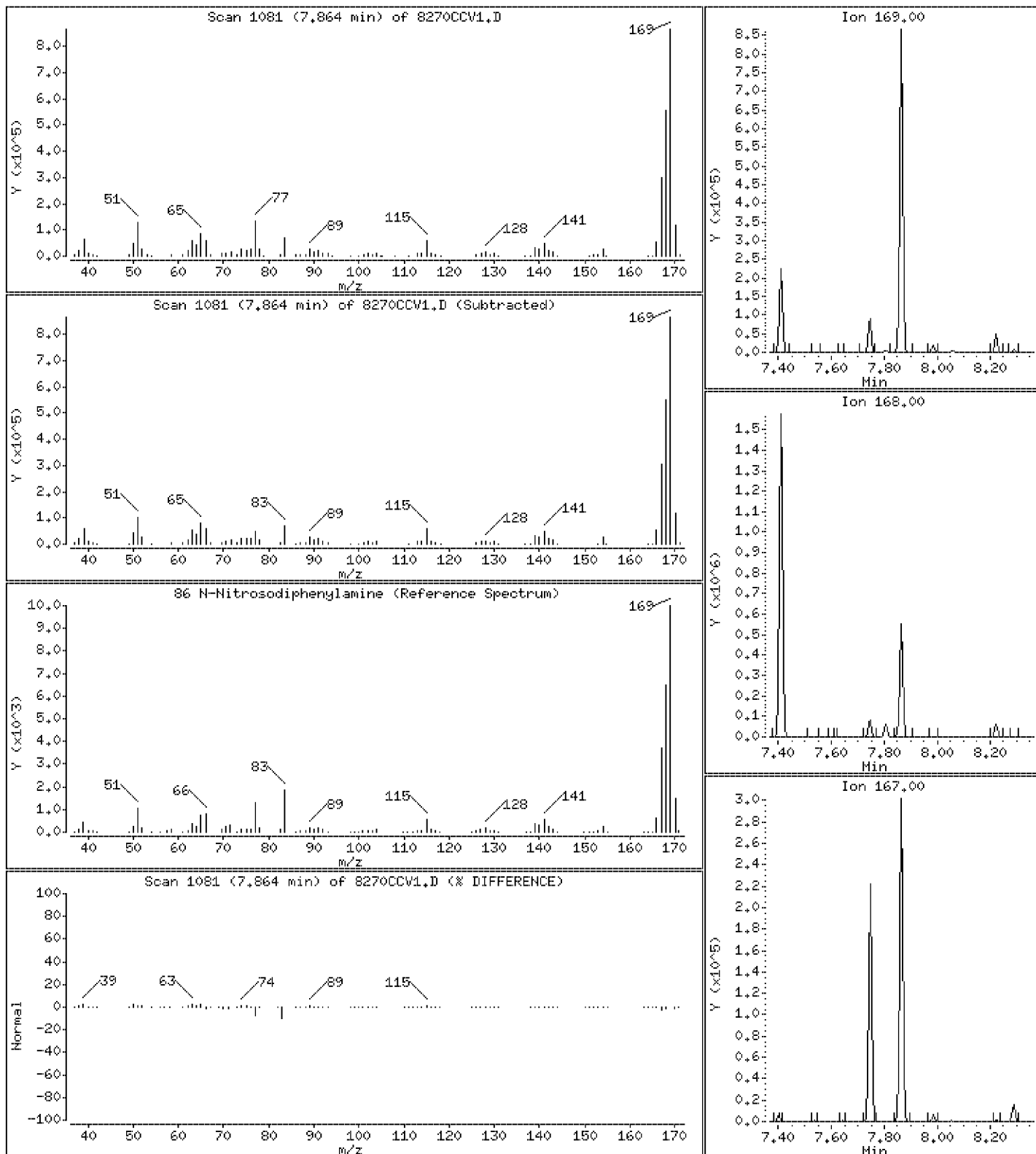
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

86 N-Nitrosodiphenylamine

Concentration: 42.6 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

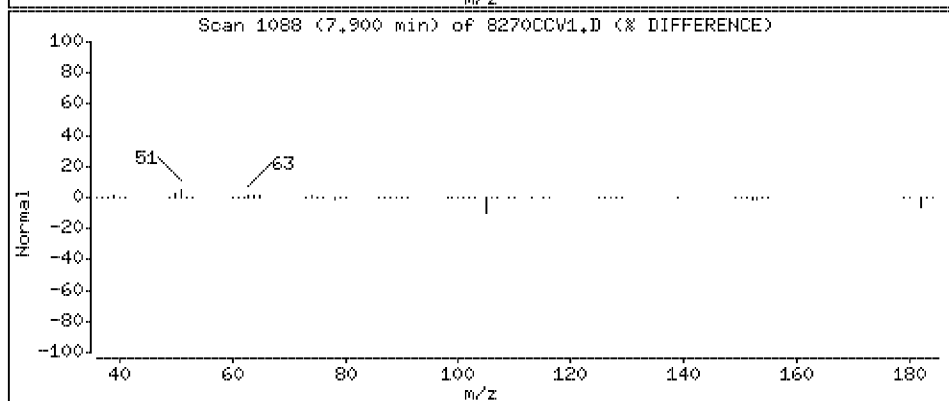
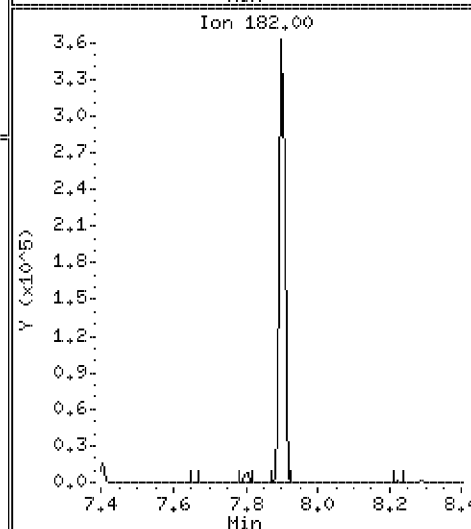
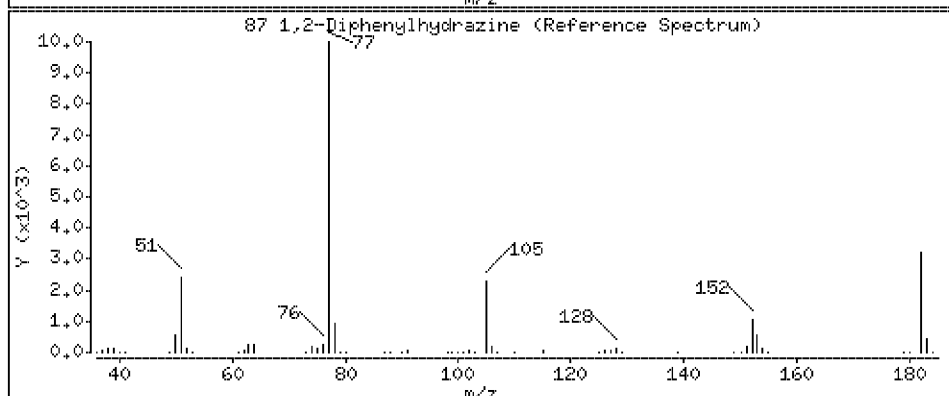
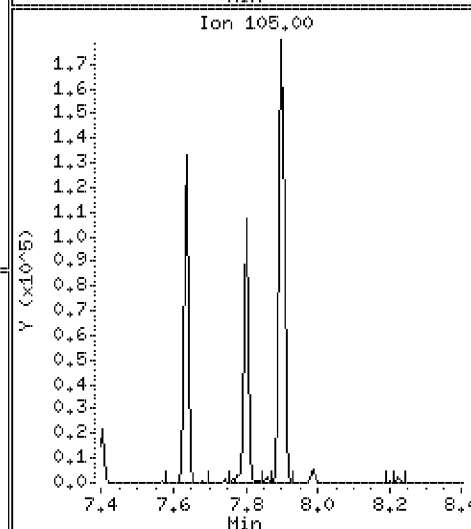
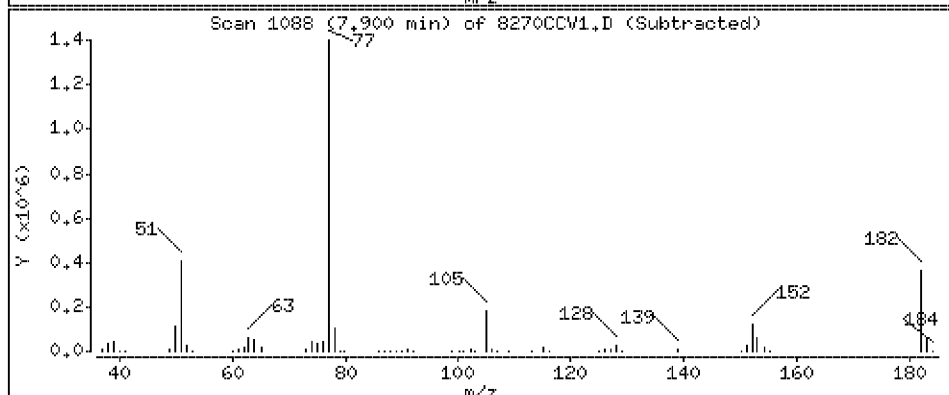
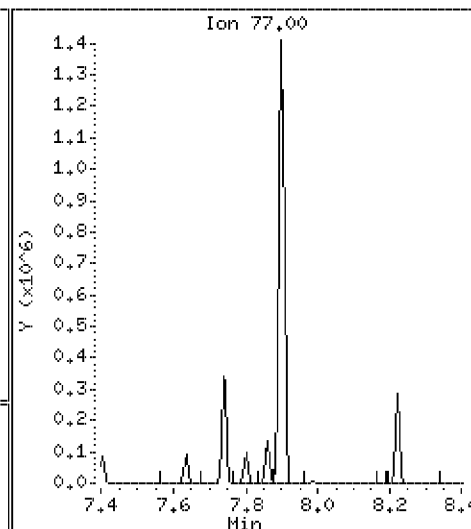
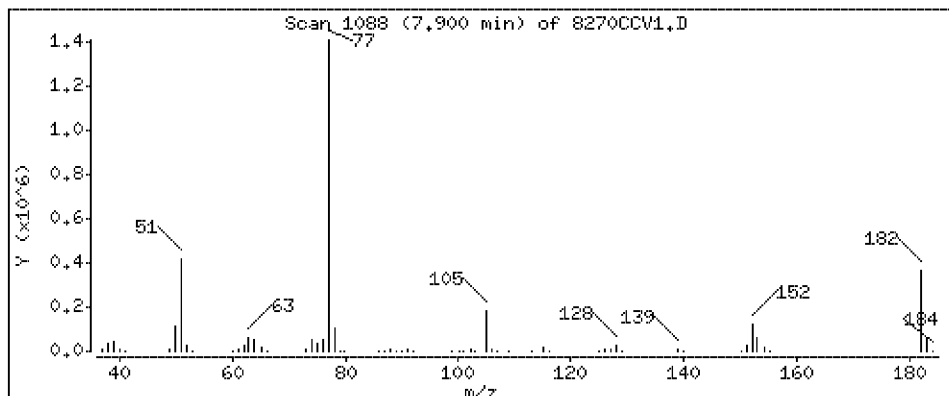
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

87 1,2-Diphenylhydrazine

Concentration: 48.6 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

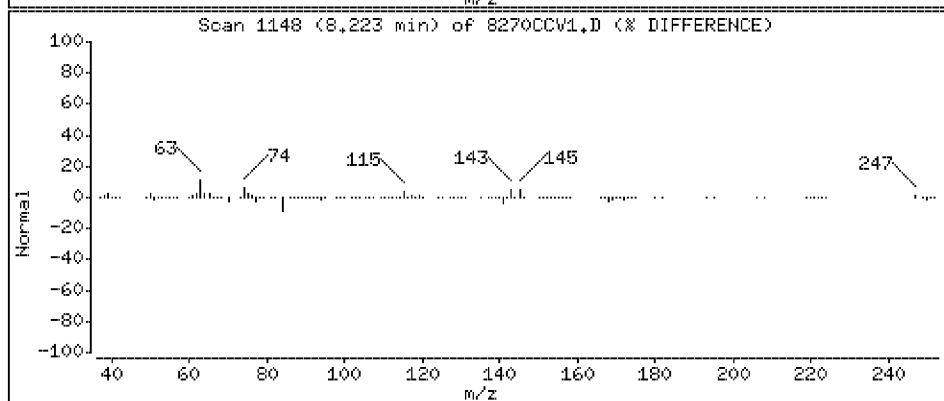
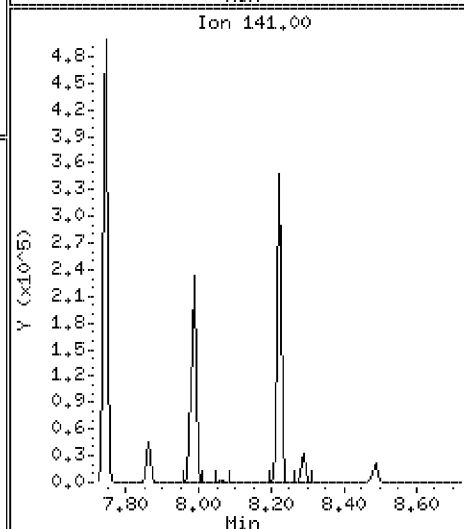
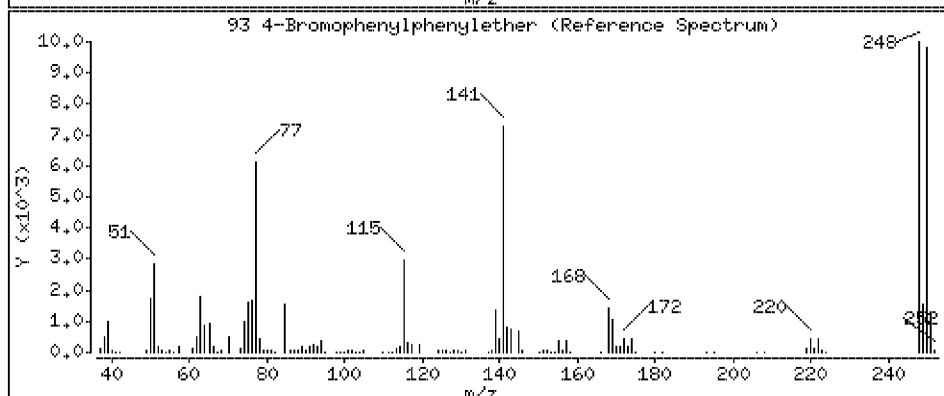
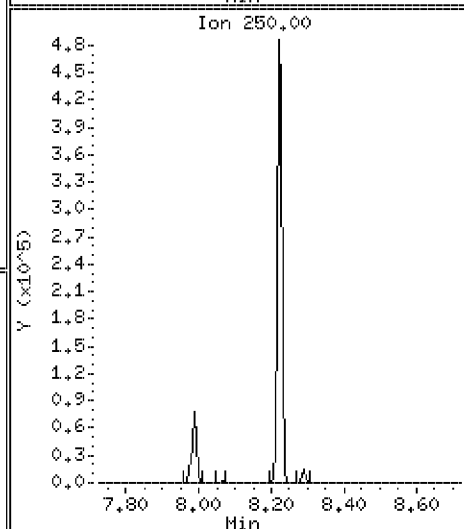
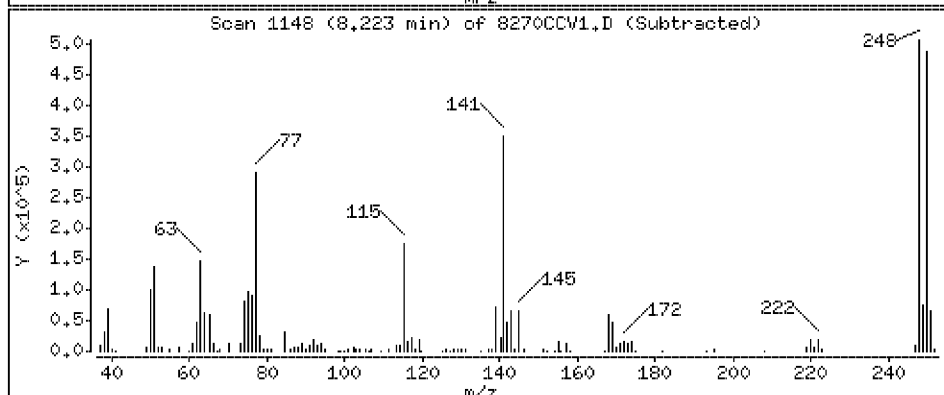
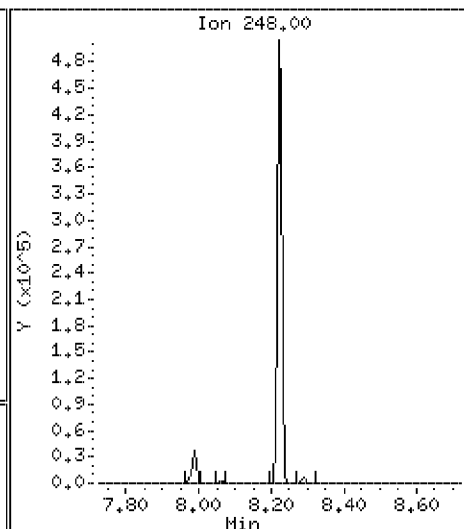
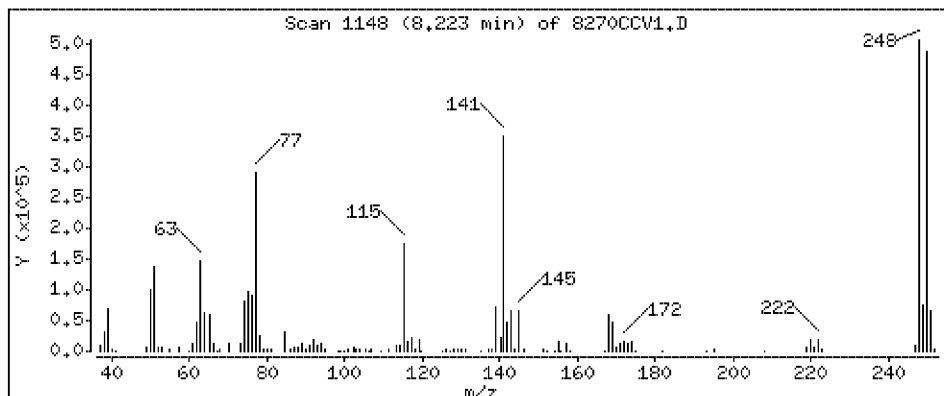
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

93 4-Bromophenylphenylether

Concentration: 45.4 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

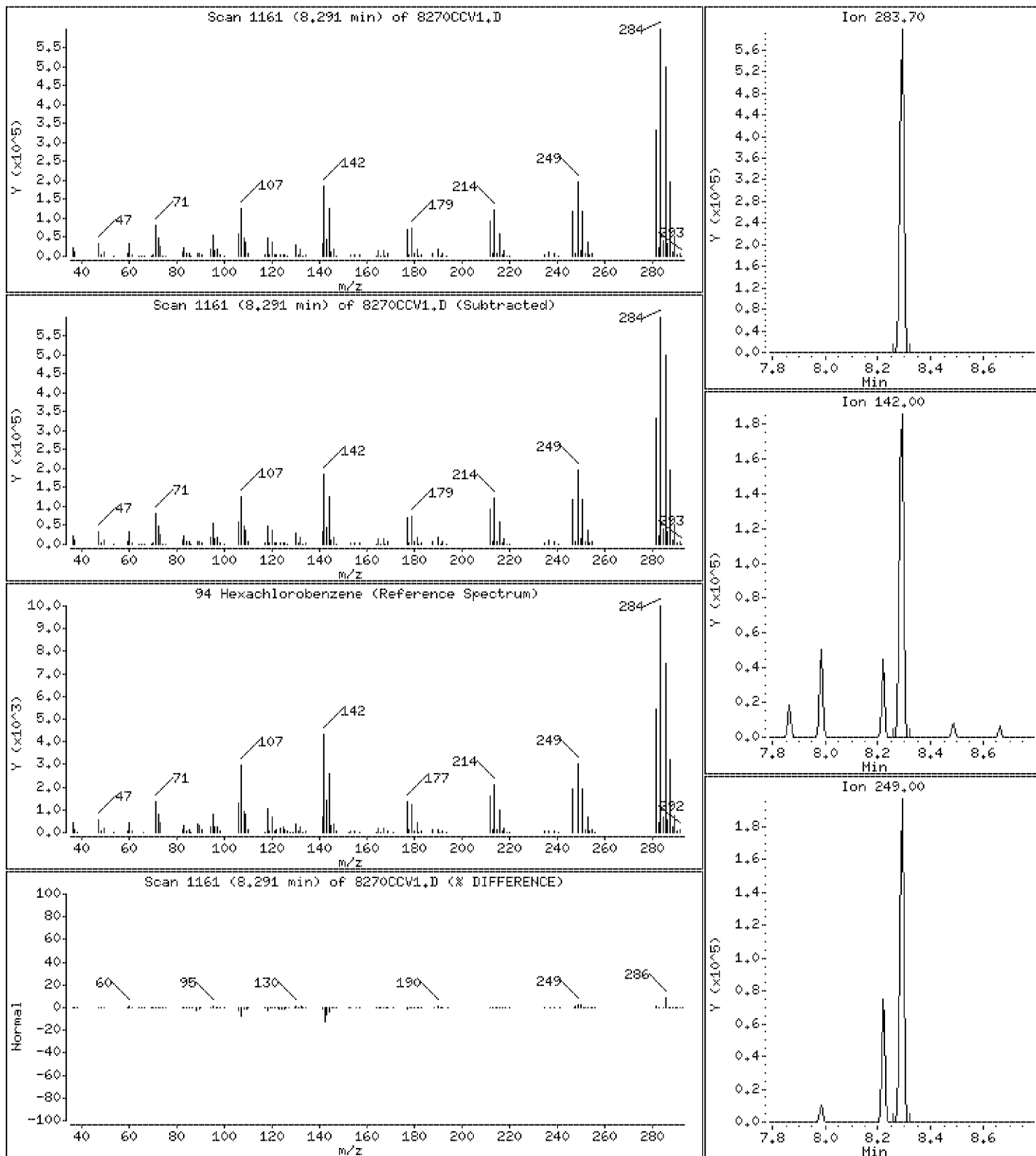
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

94 Hexachlorobenzene

Concentration: 44.8 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

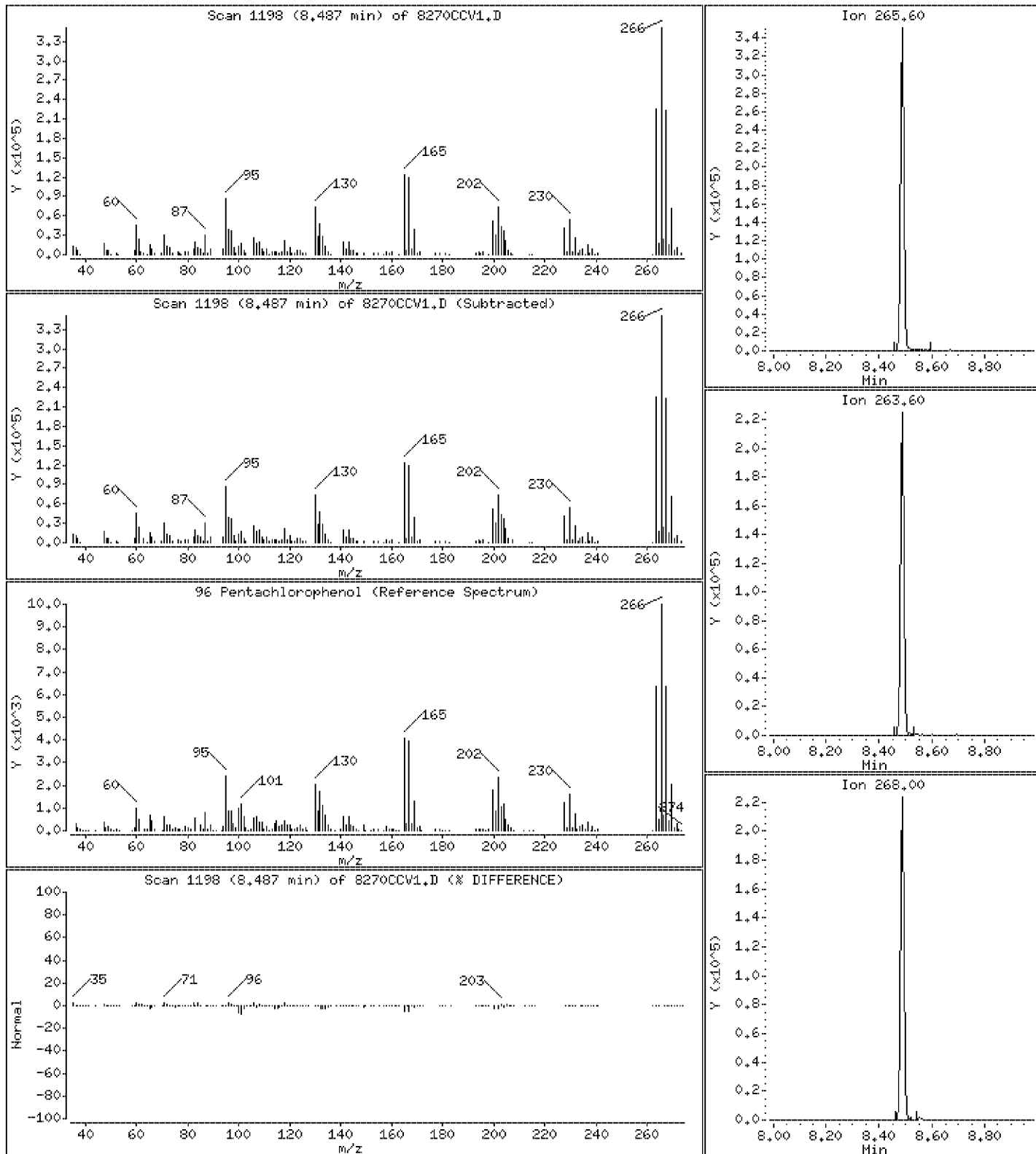
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

96 Pentachlorophenol

Concentration: 48.6 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

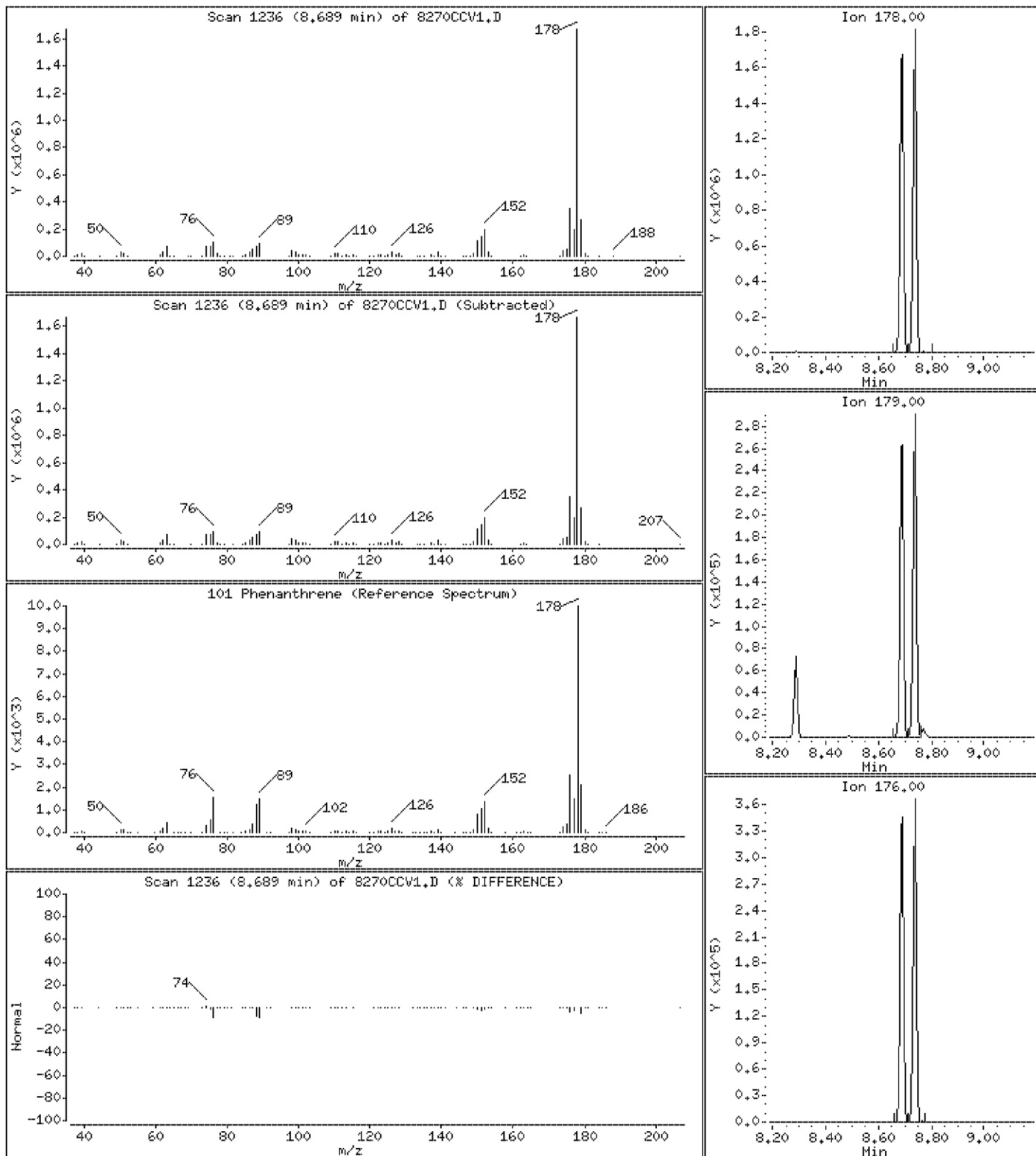
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

101 Phenanthrene

Concentration: 46.1 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

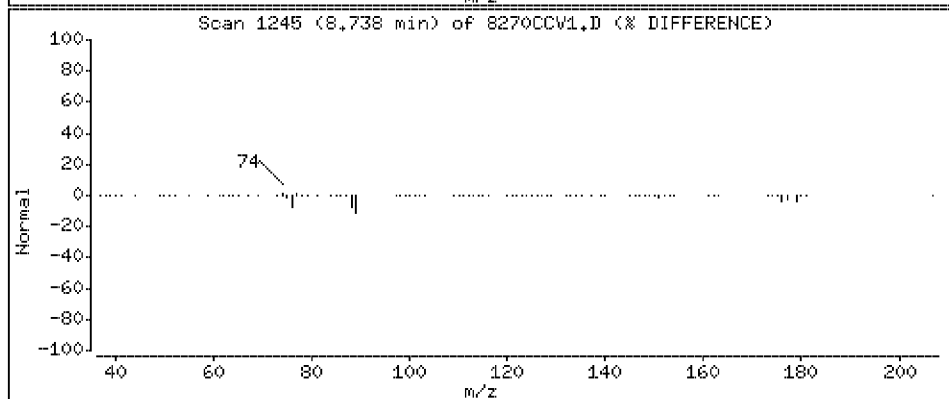
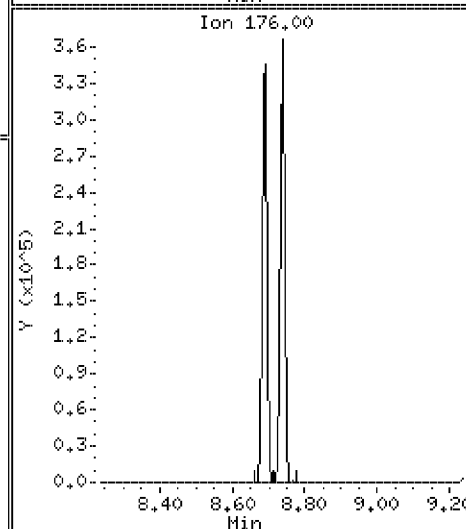
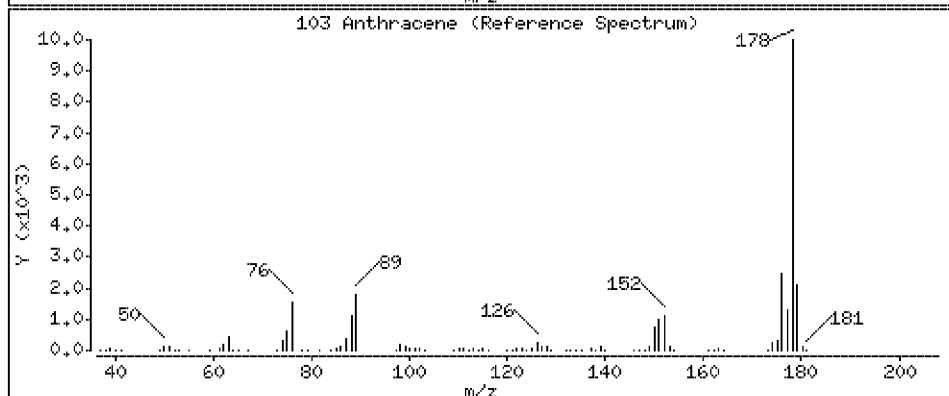
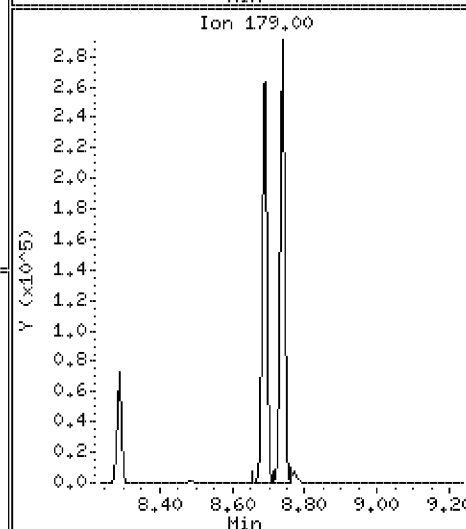
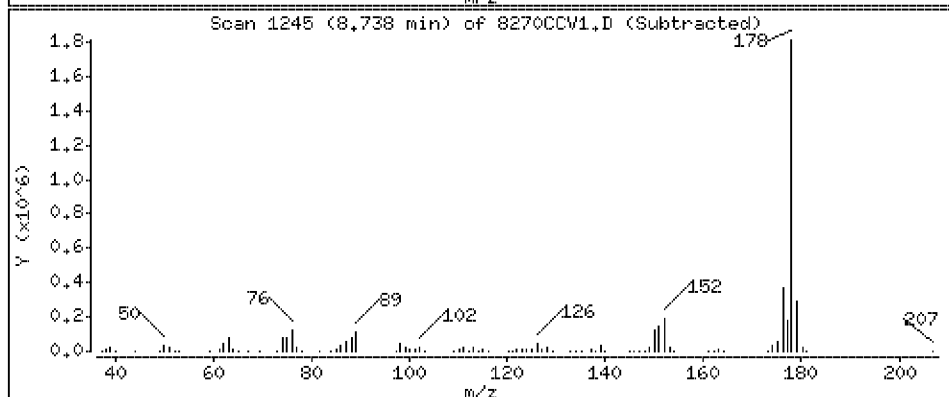
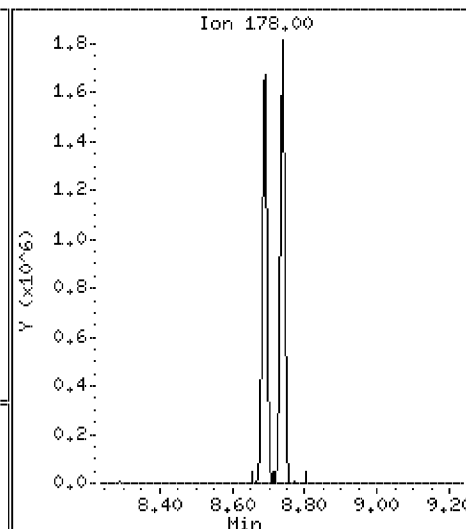
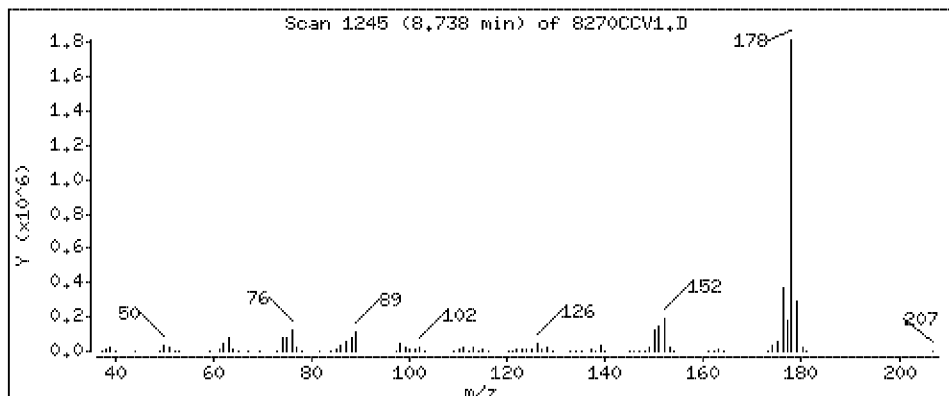
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

103 Anthracene

Concentration: 46.3 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

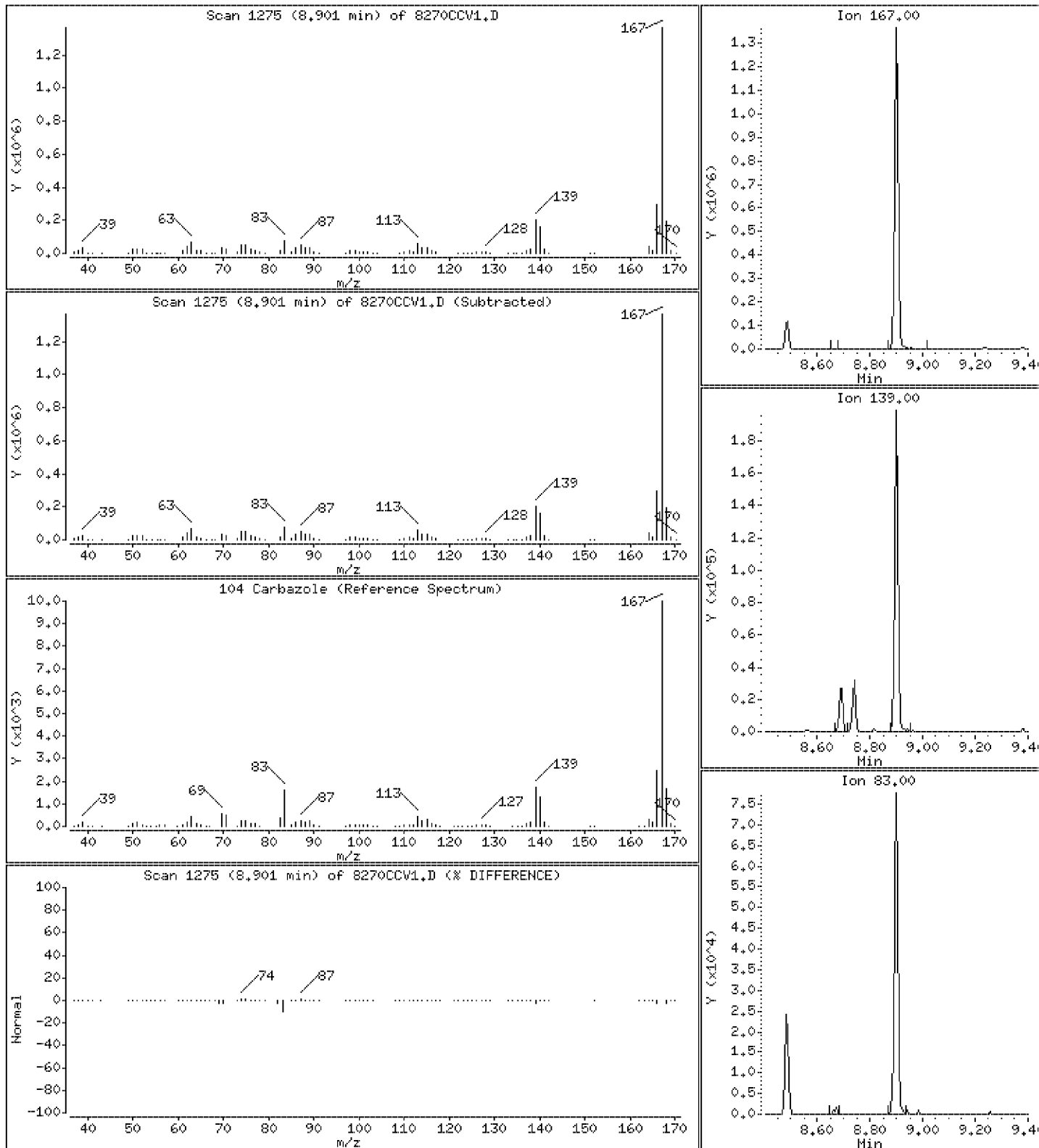
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

104 Carbazole

Concentration: 45.4 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

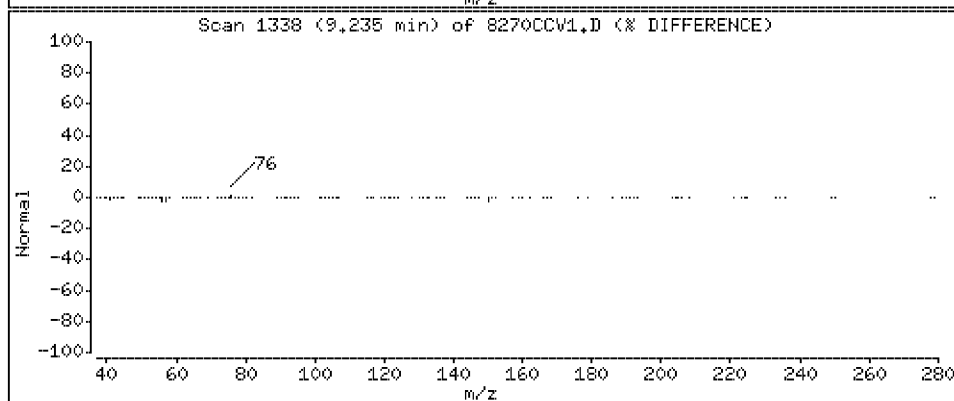
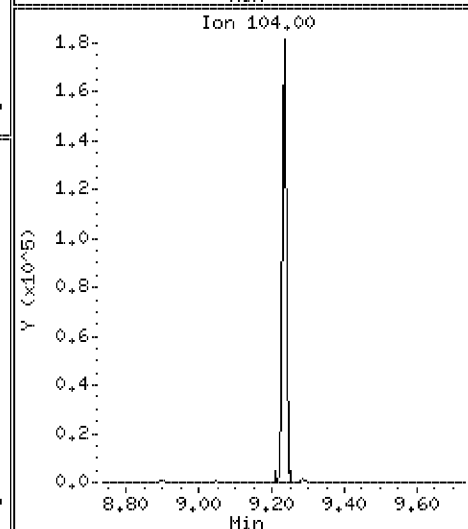
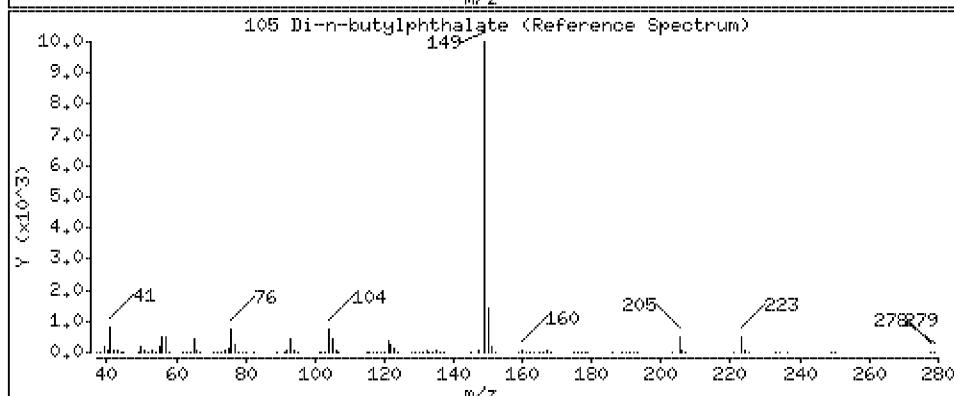
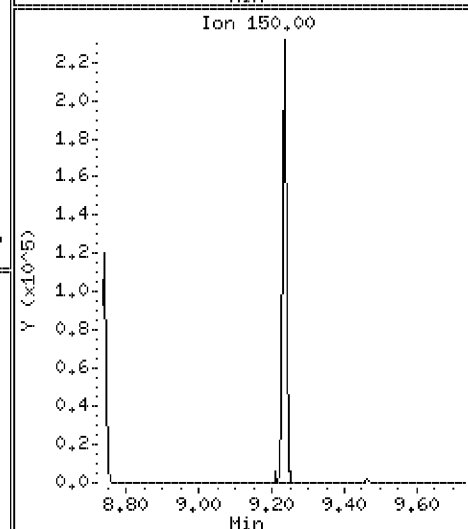
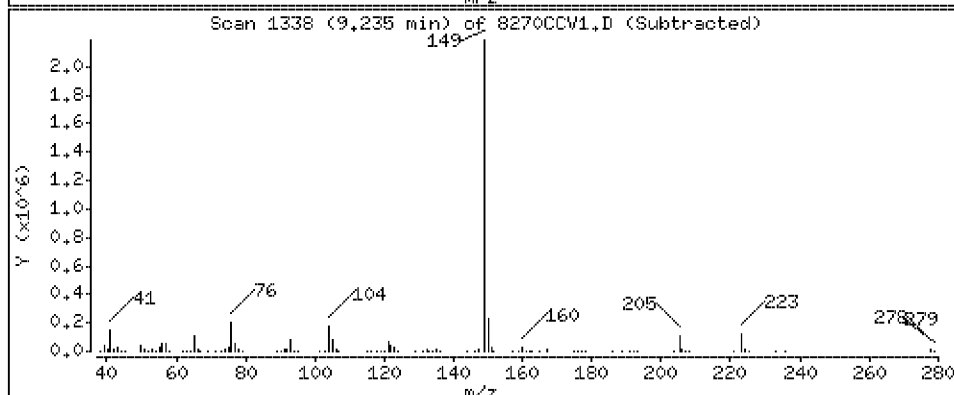
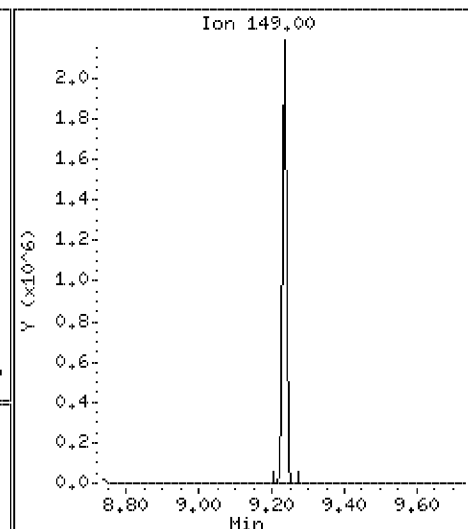
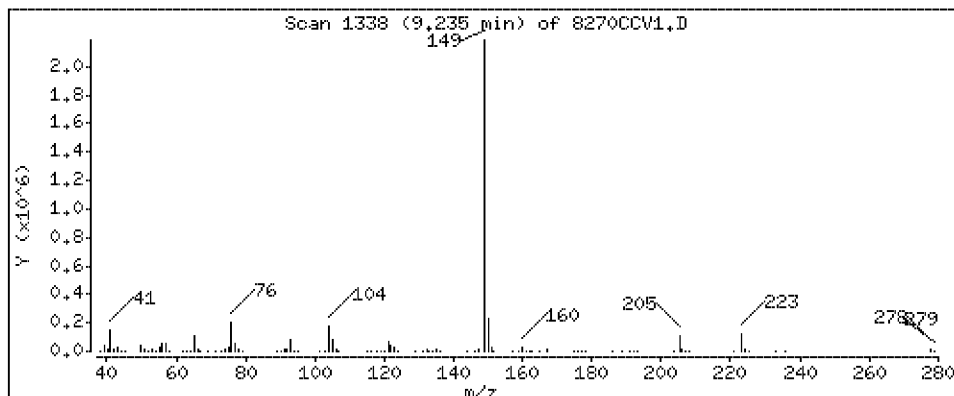
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

105 Di-n-butylphthalate

Concentration: 47.4 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

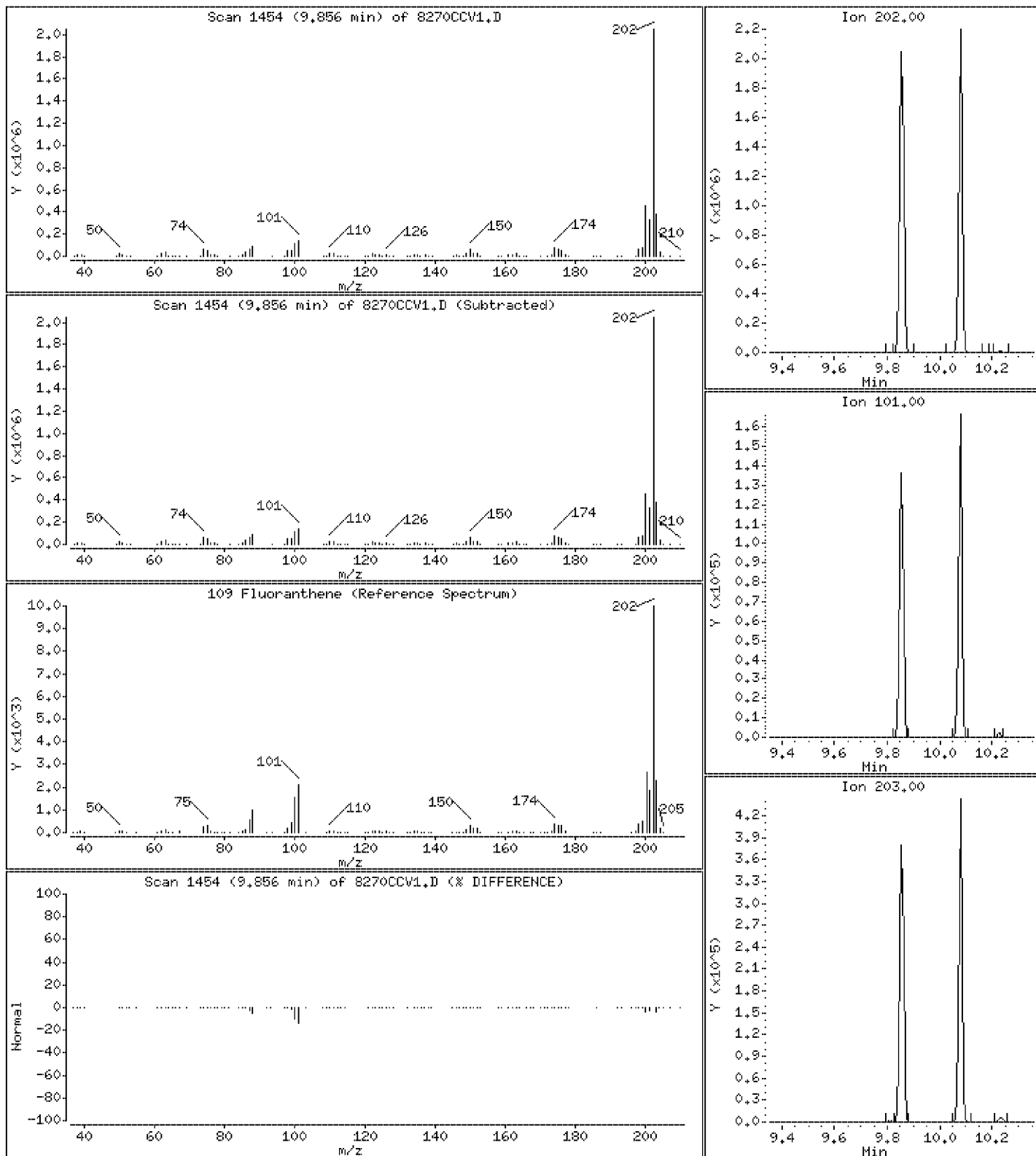
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

109 Fluoranthene

Concentration: 47.1 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

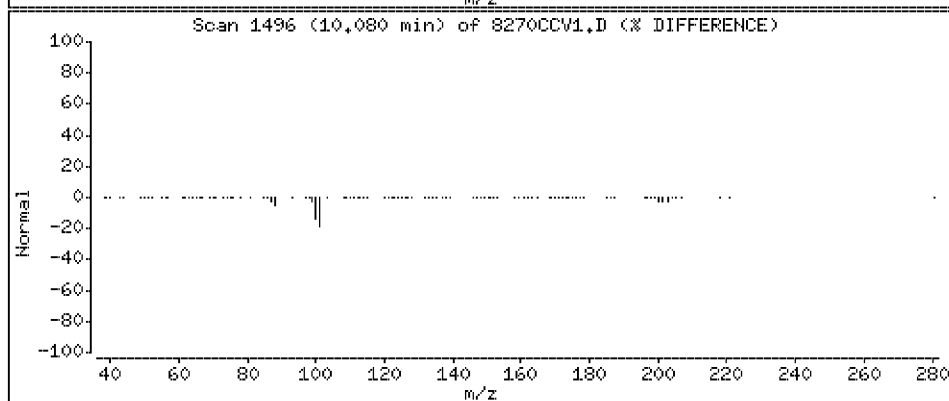
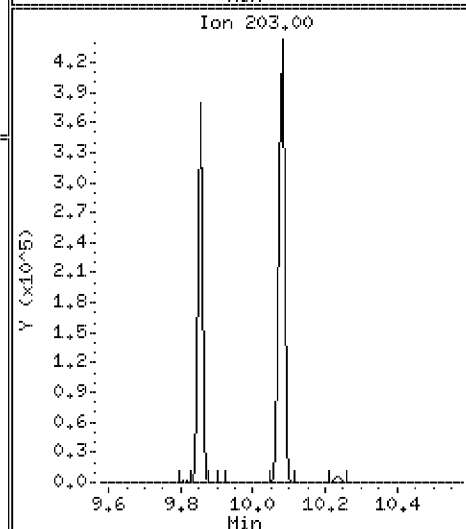
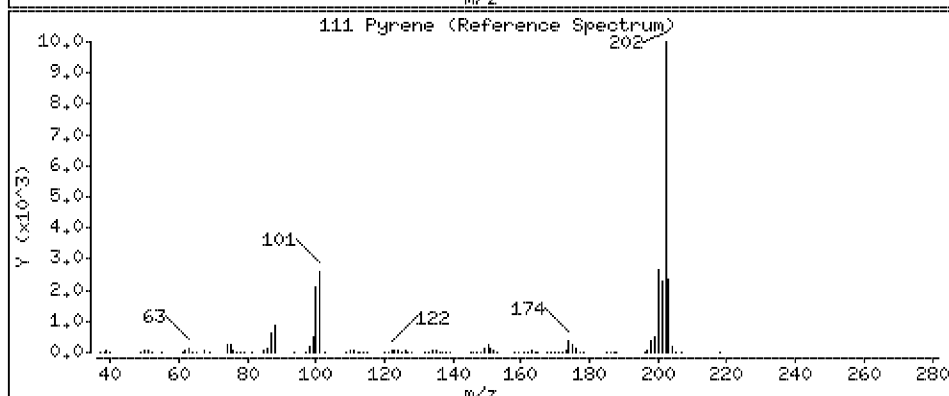
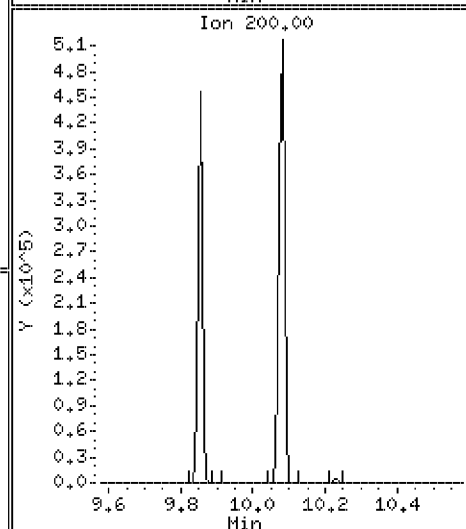
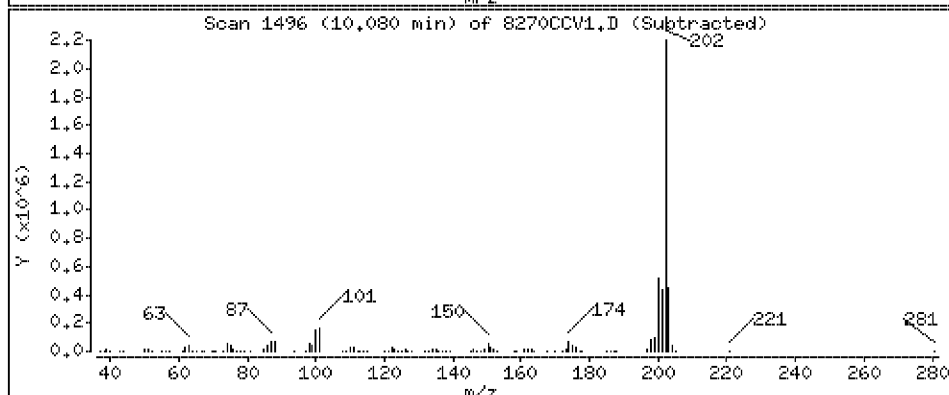
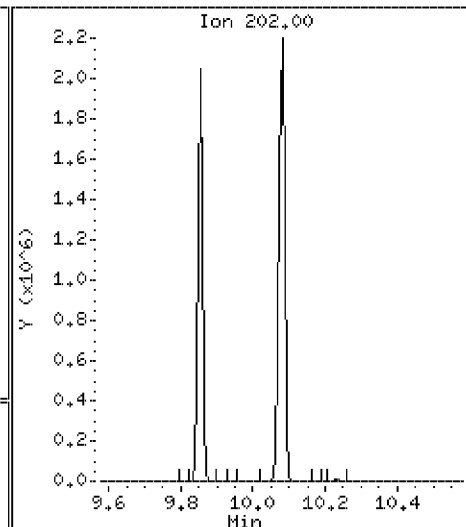
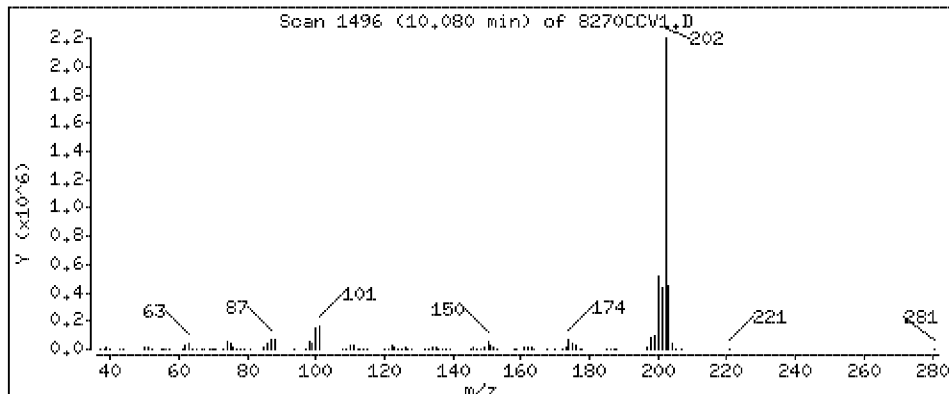
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

111 Pyrene

Concentration: 43.4 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

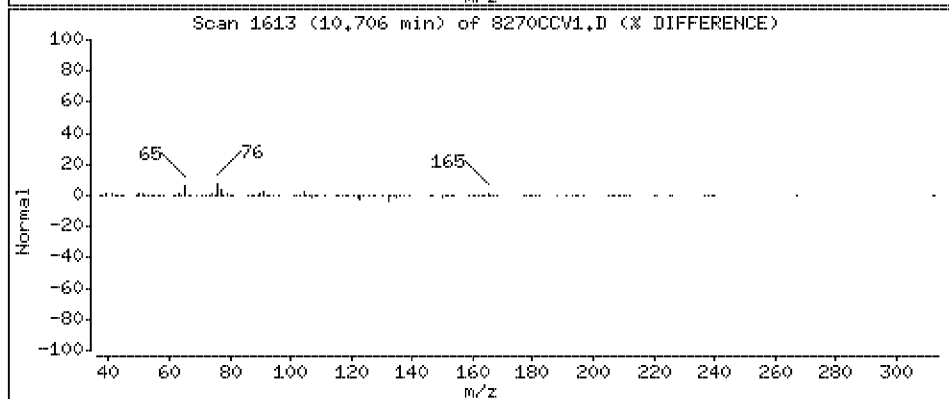
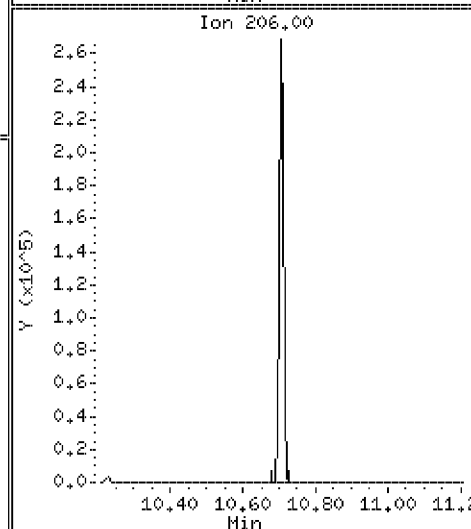
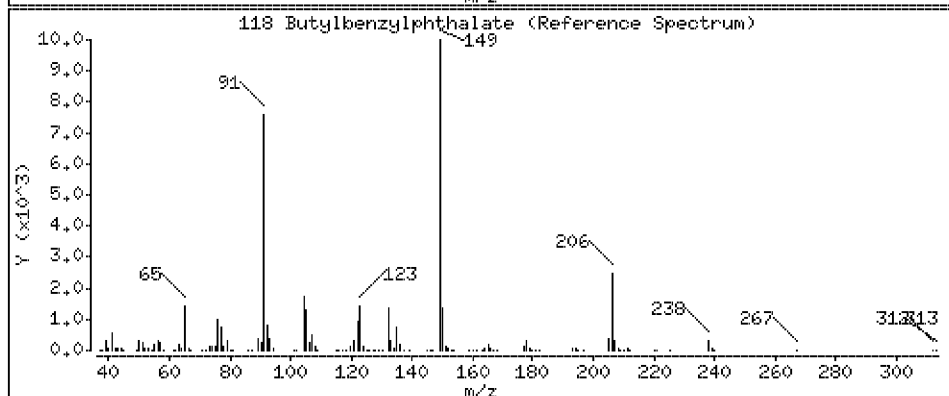
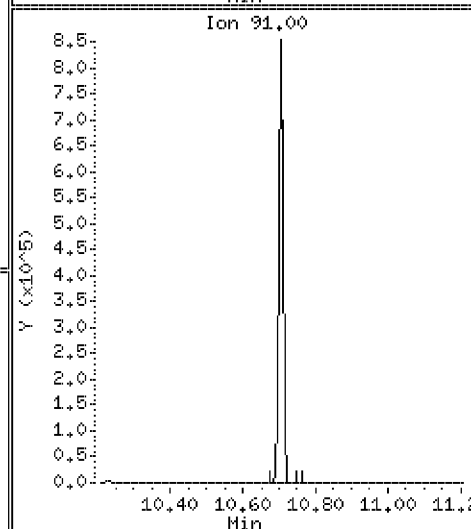
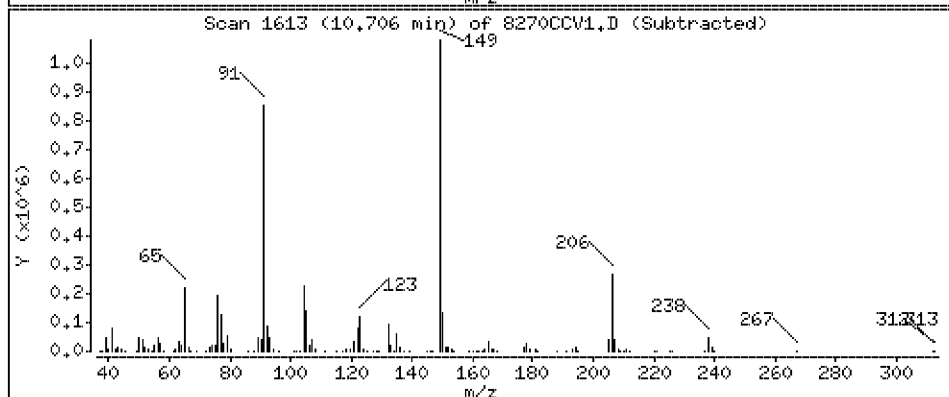
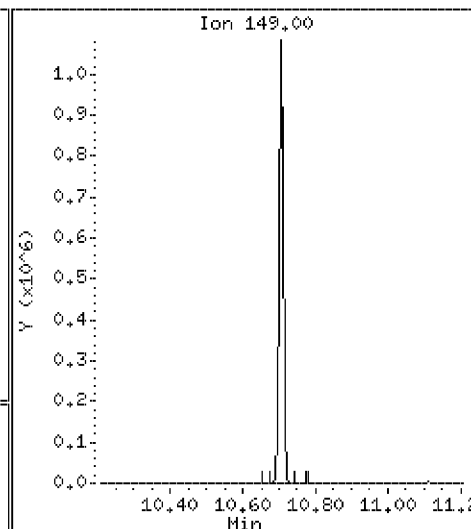
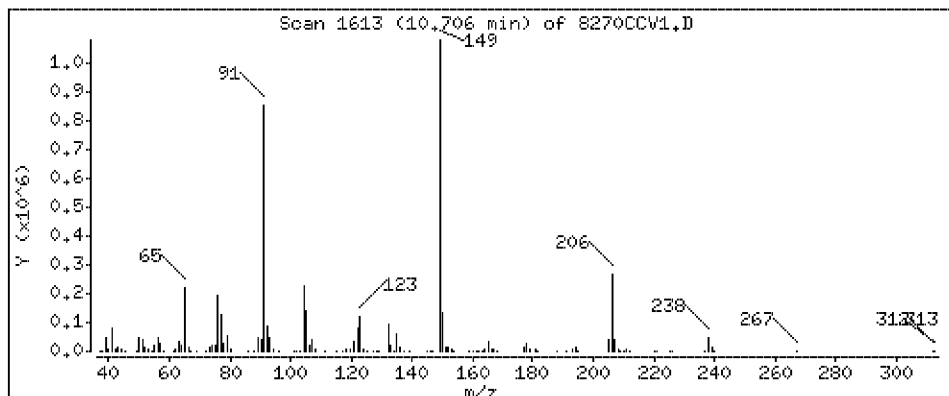
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

118 Butylbenzylphthalate

Concentration: 43.6 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

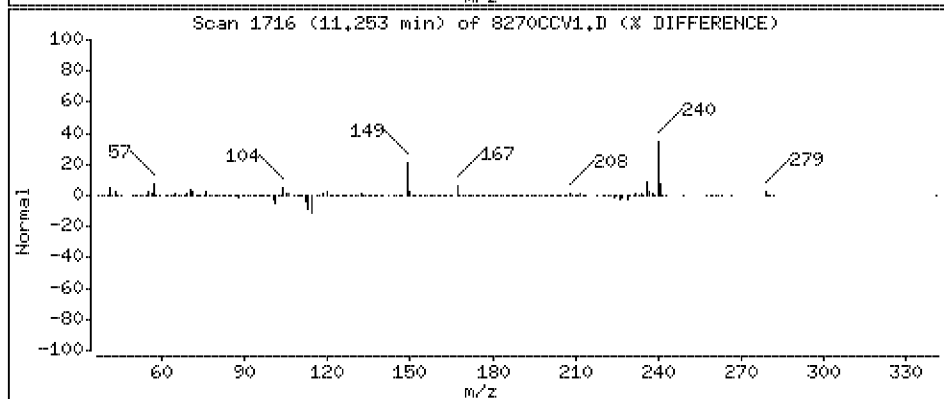
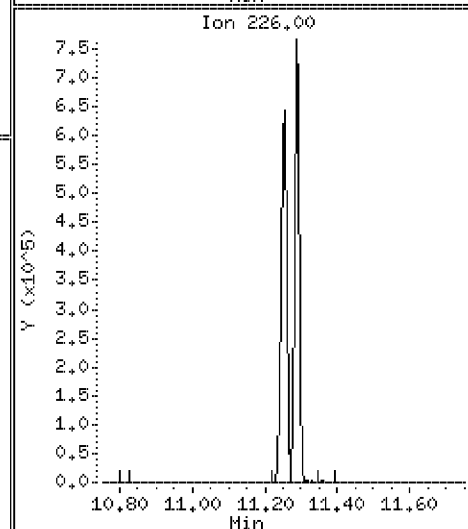
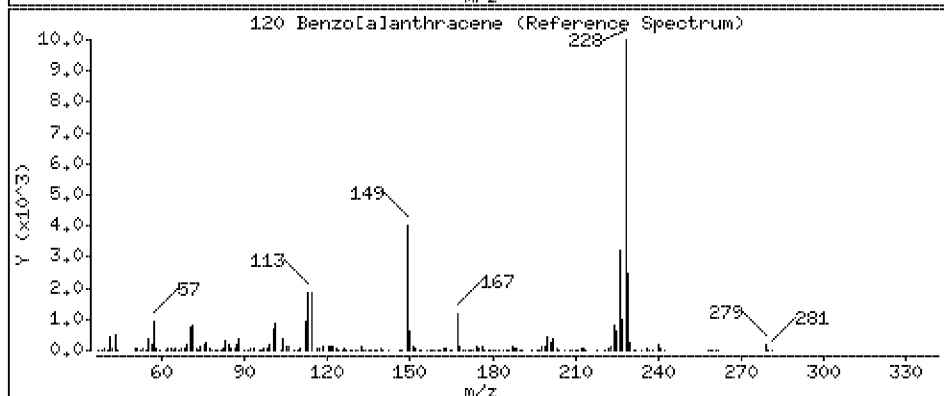
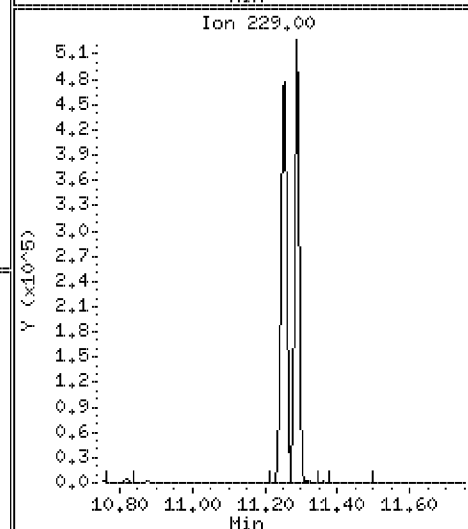
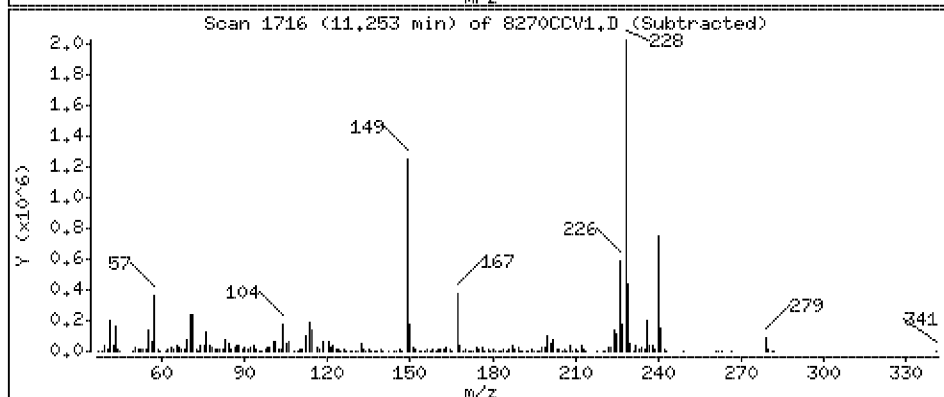
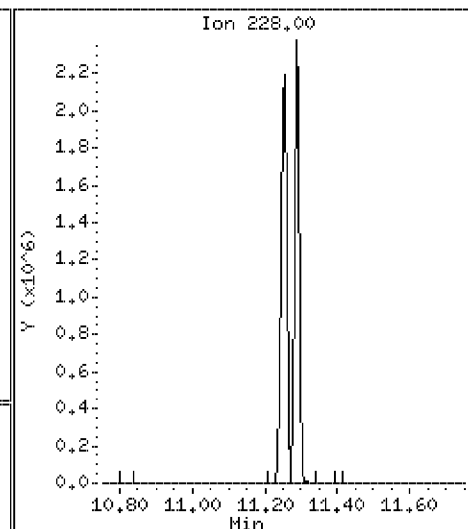
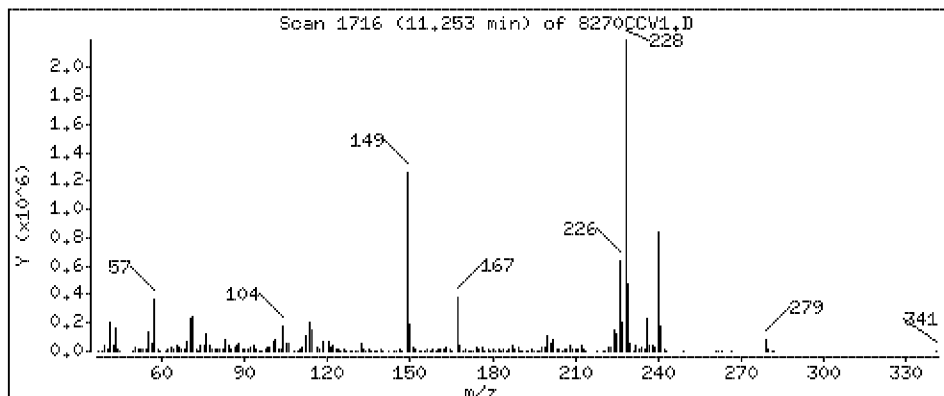
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

120 Benzo[*a*]anthracene

Concentration: 43.5 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

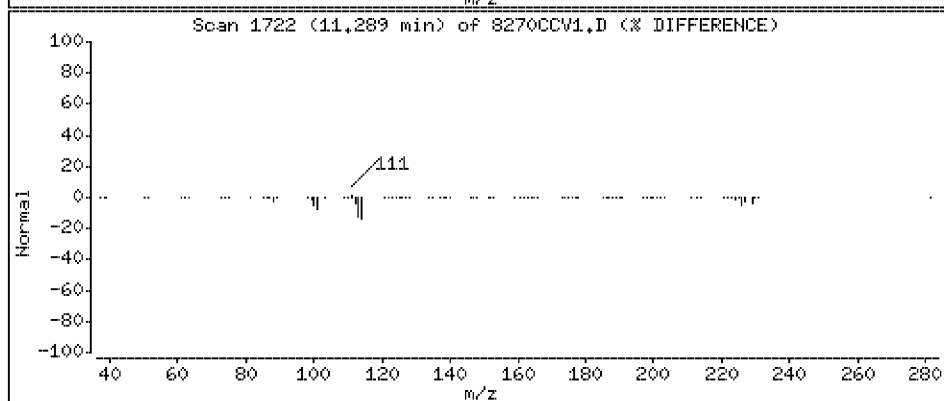
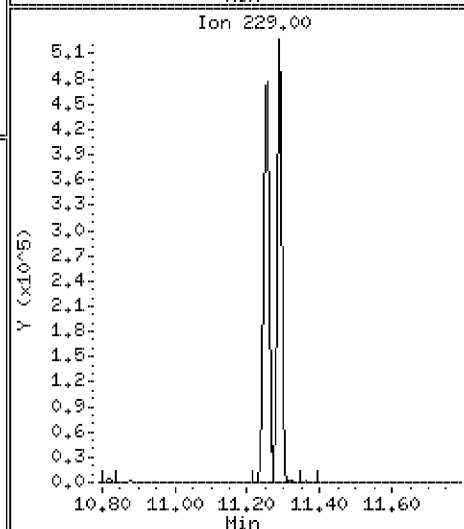
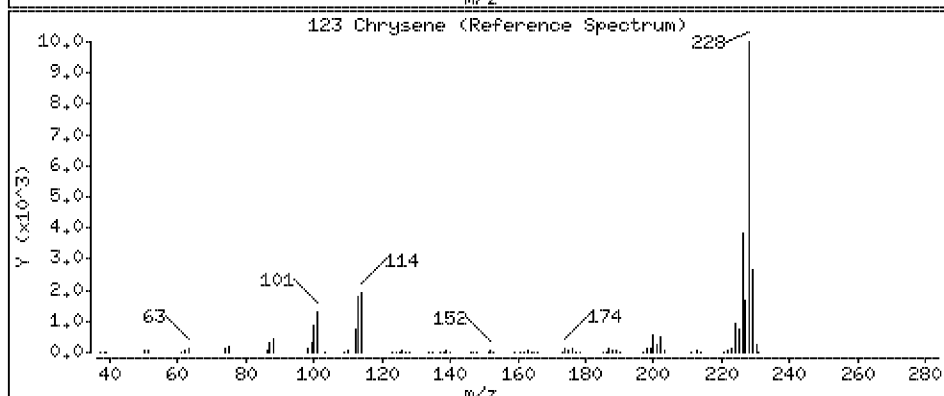
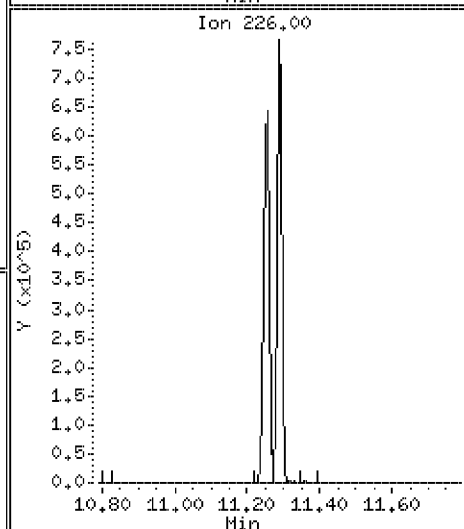
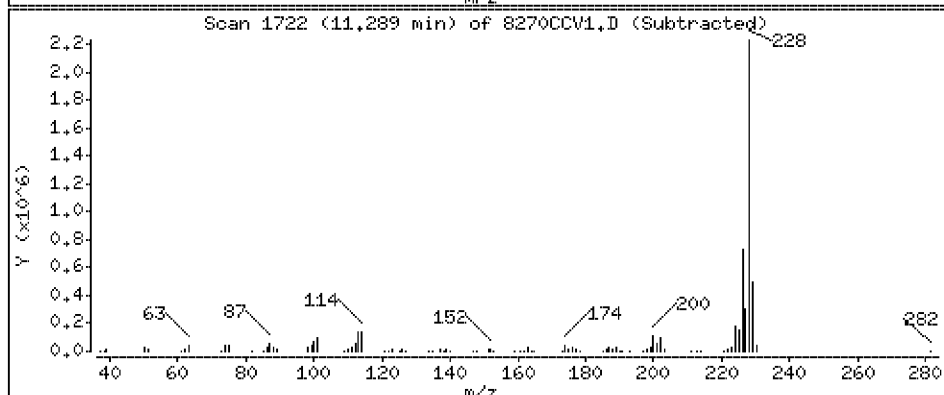
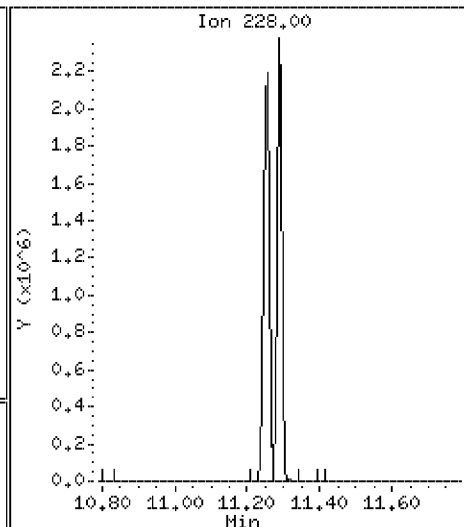
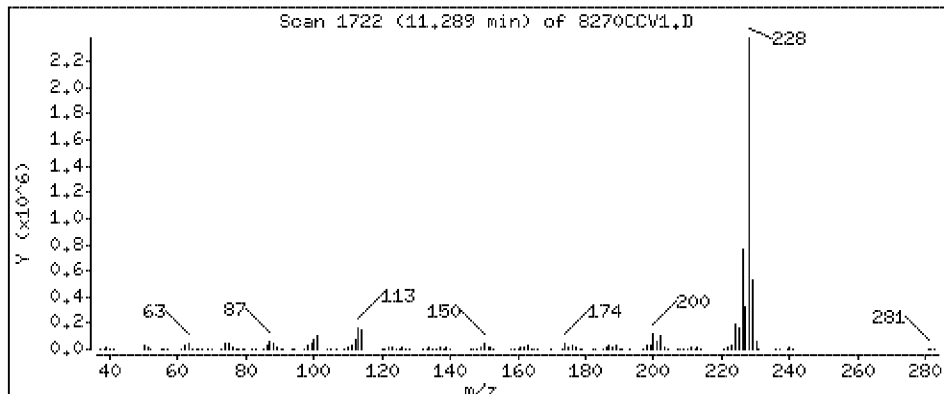
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

123 Chrysene

Concentration: 42.8 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

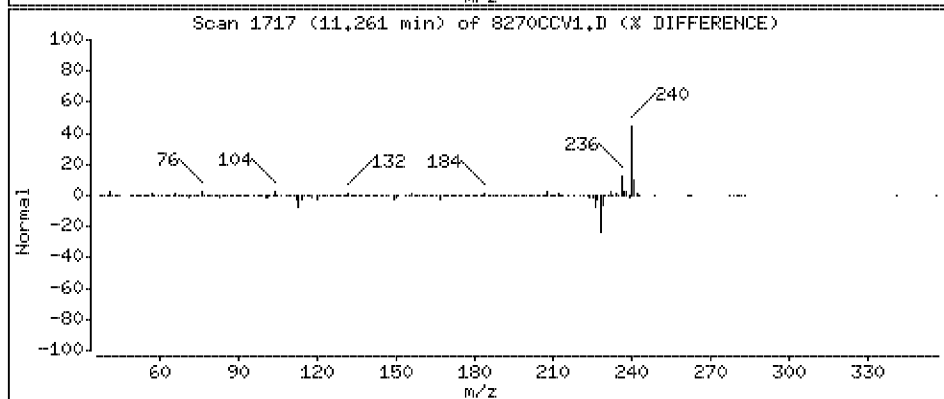
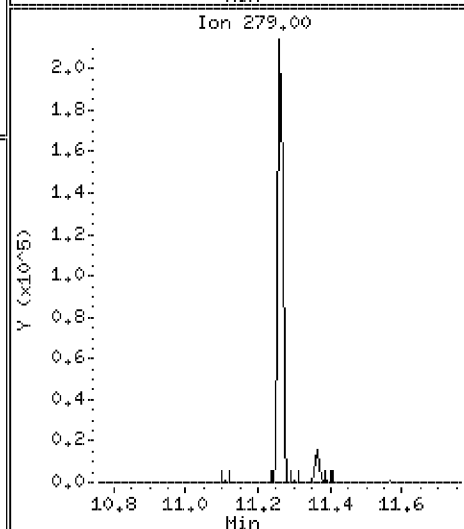
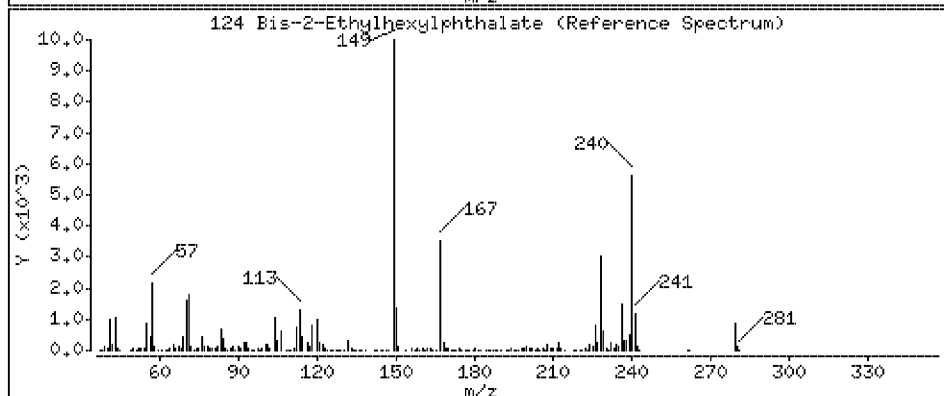
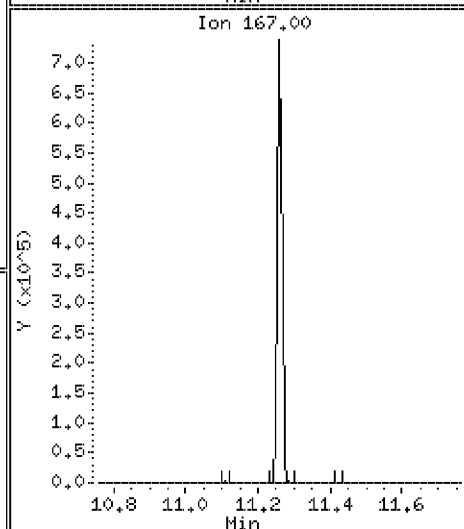
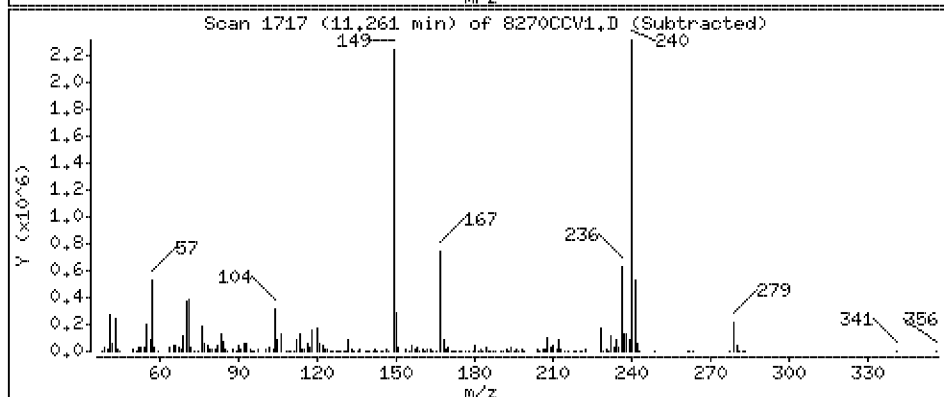
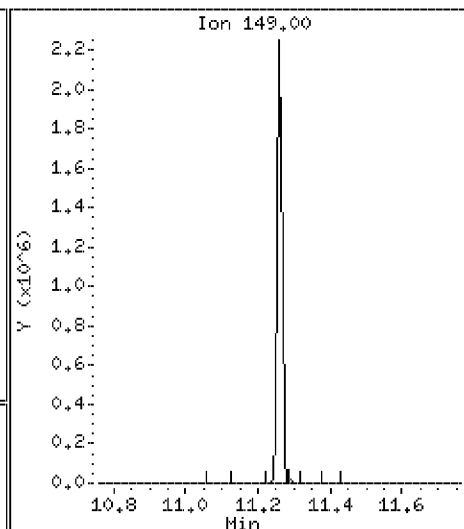
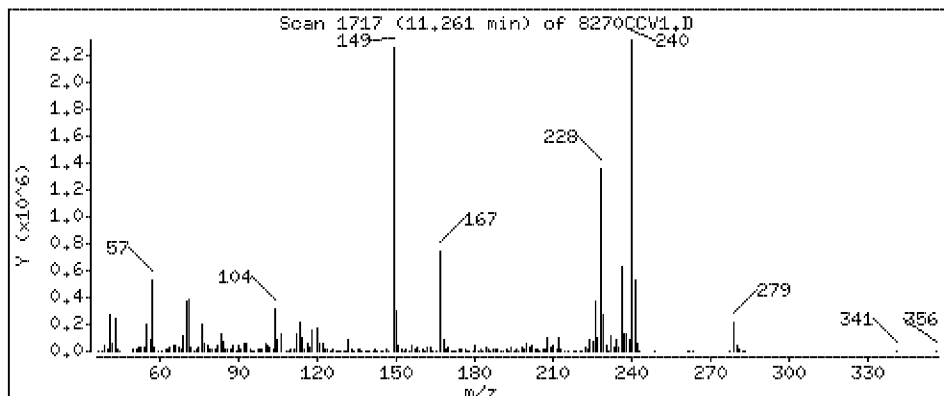
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

124 Bis-2-Ethylhexylphthalate

Concentration: 47.4 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

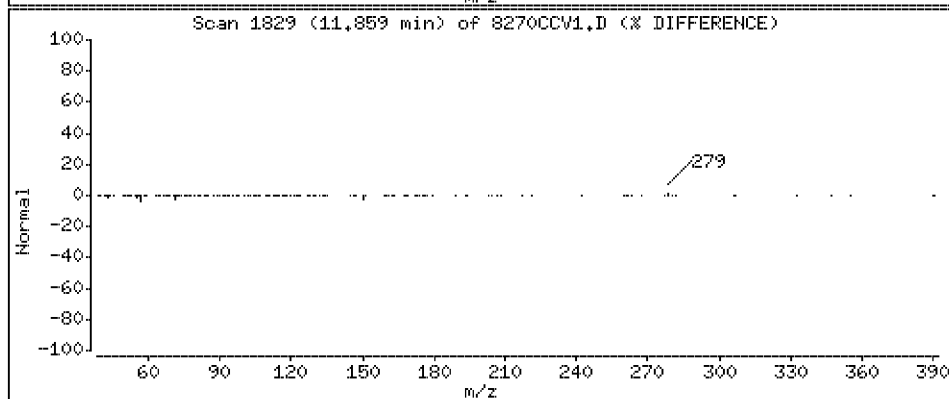
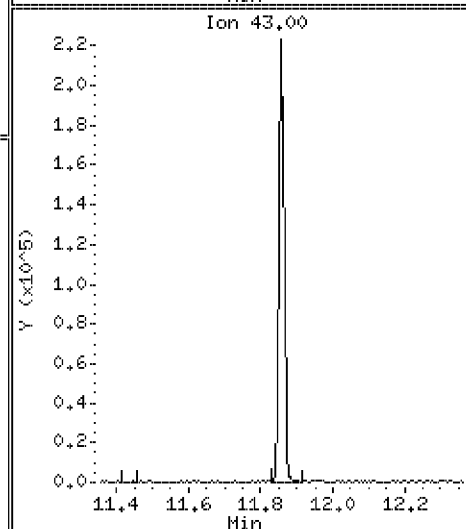
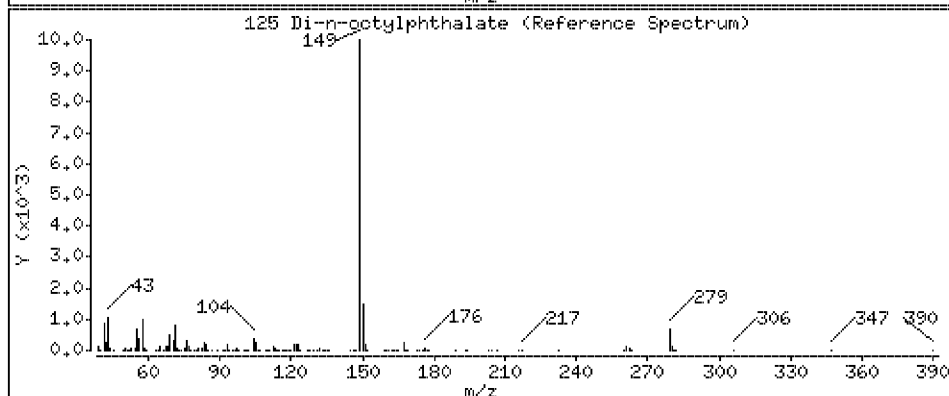
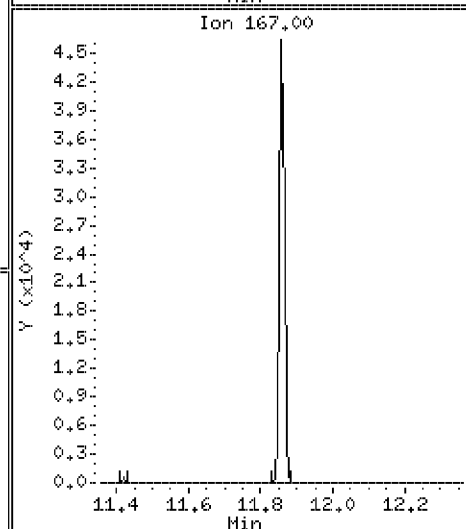
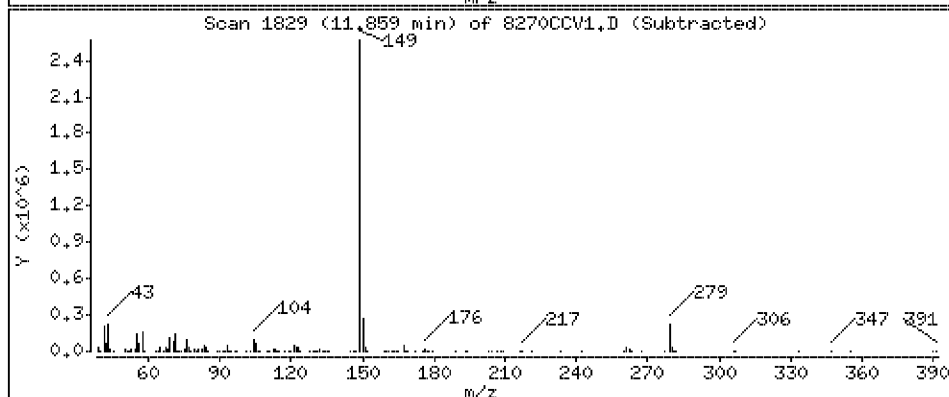
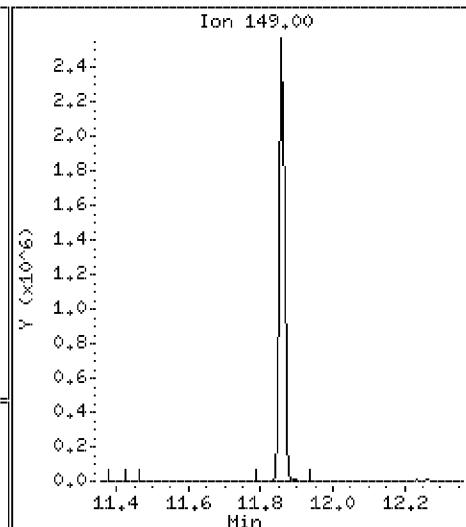
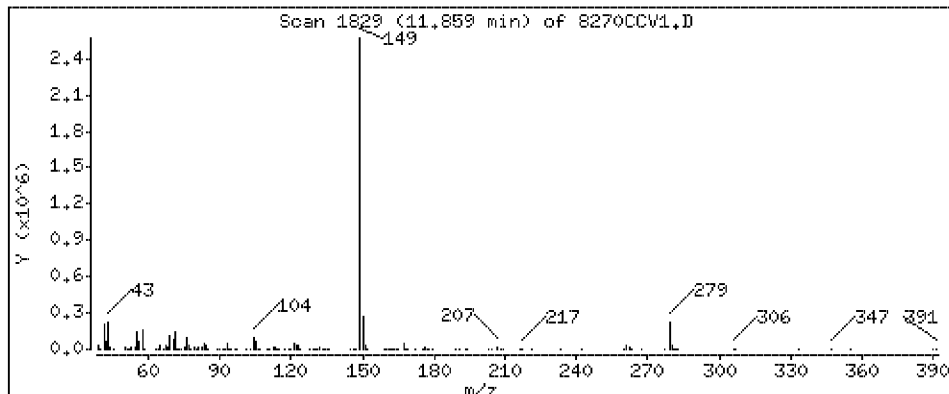
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

125 Di-n-octylphthalate

Concentration: 48.7 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

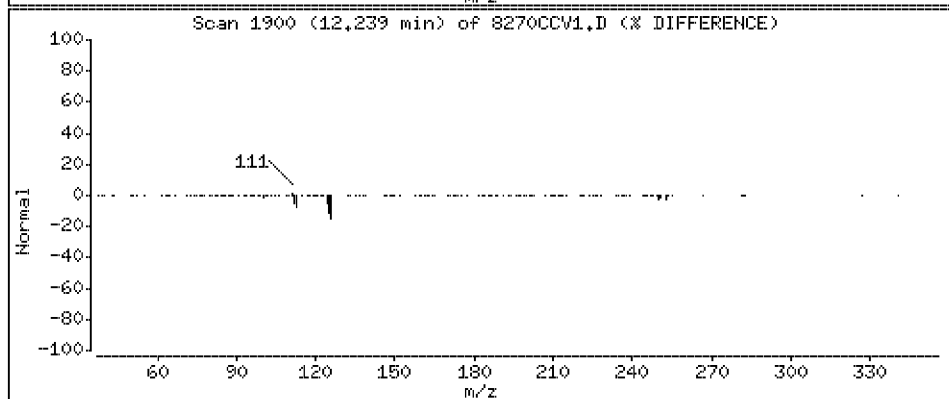
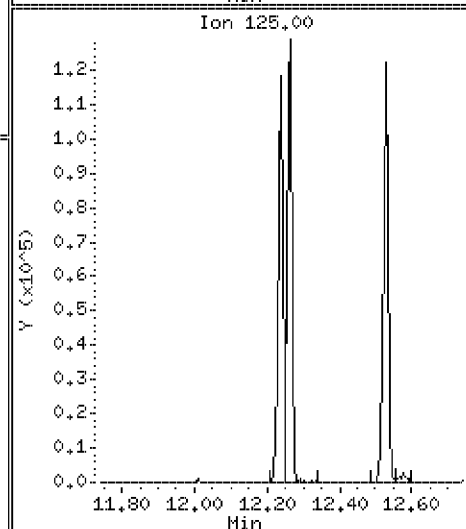
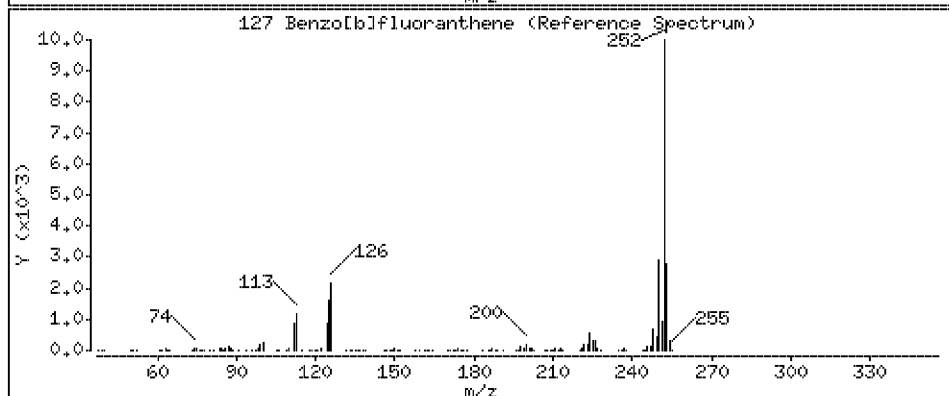
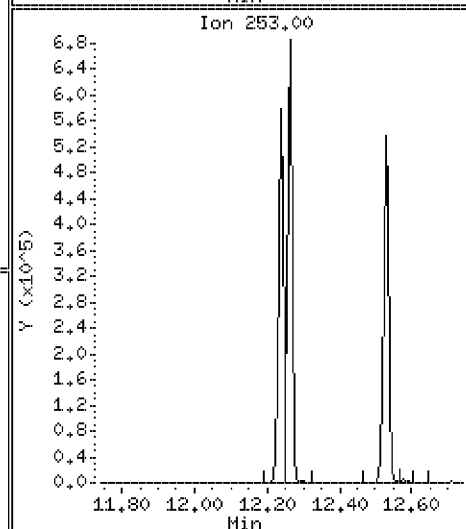
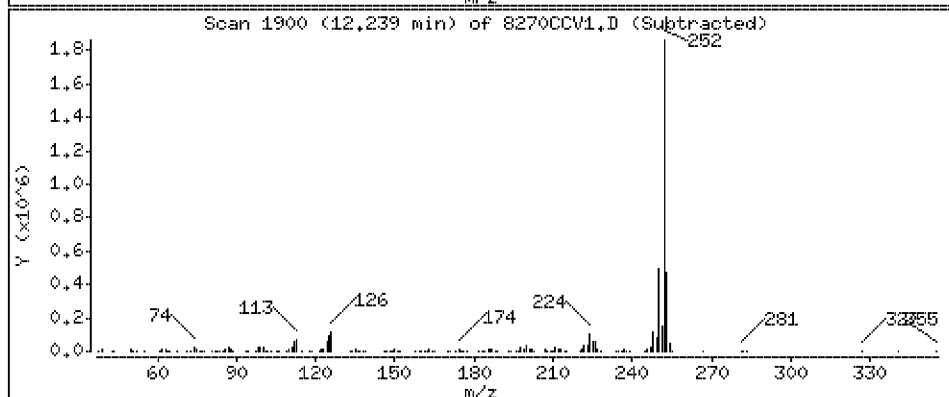
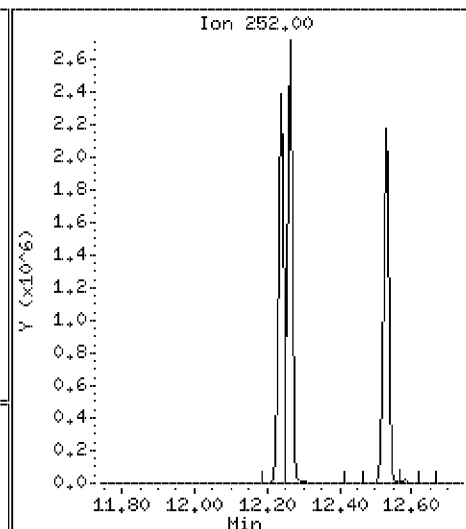
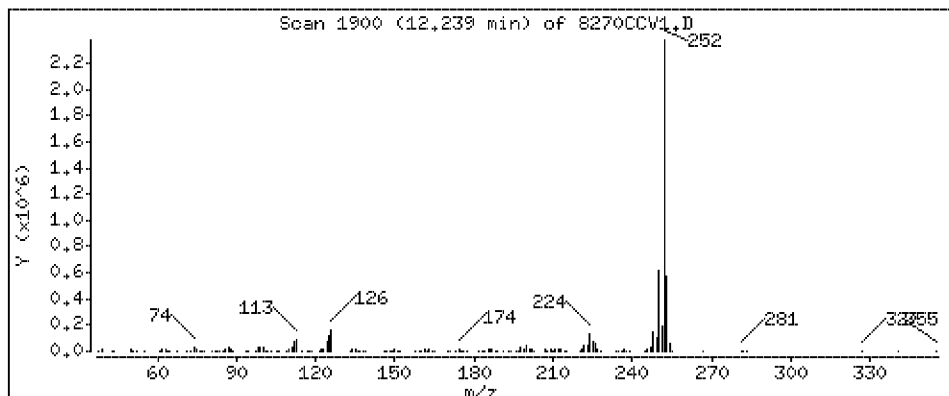
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

127 Benzo[b]fluoranthene

Concentration: 49.2 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

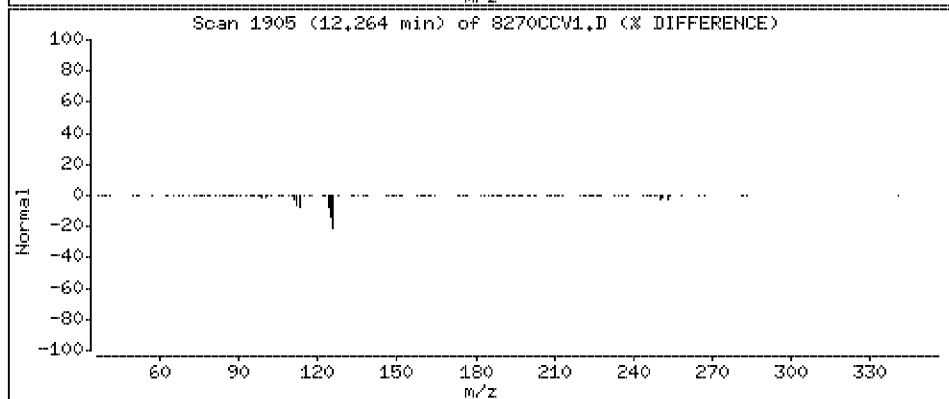
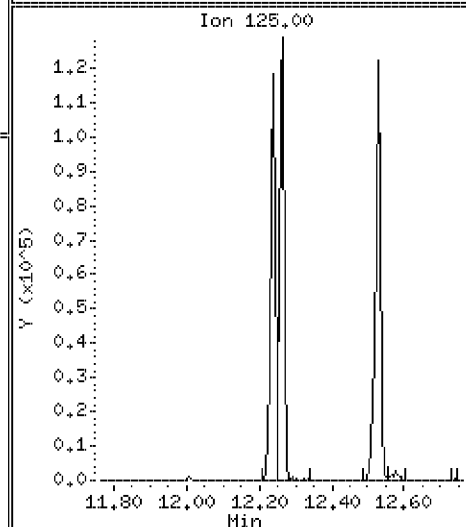
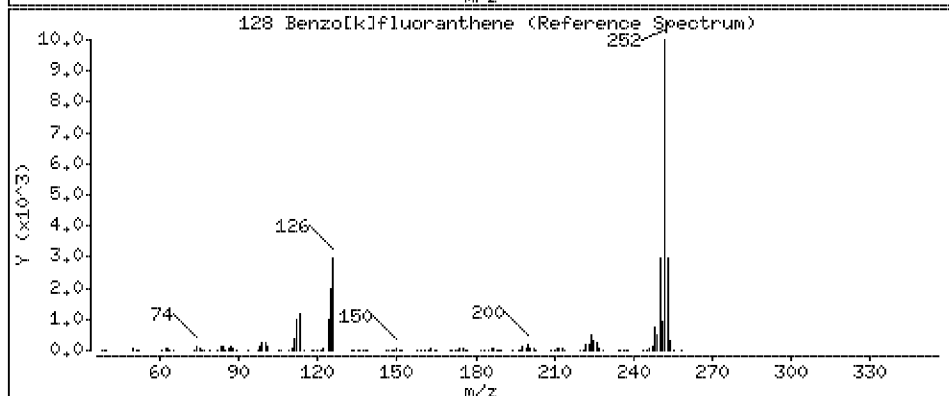
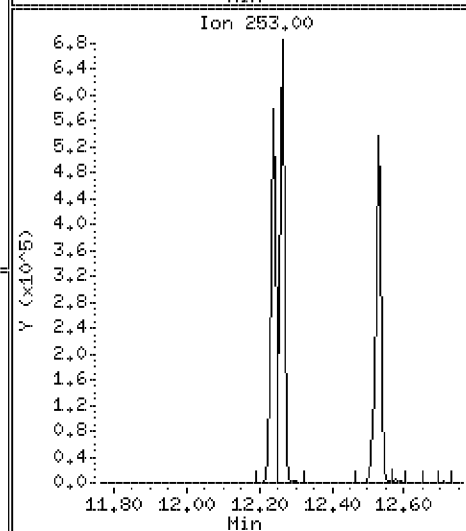
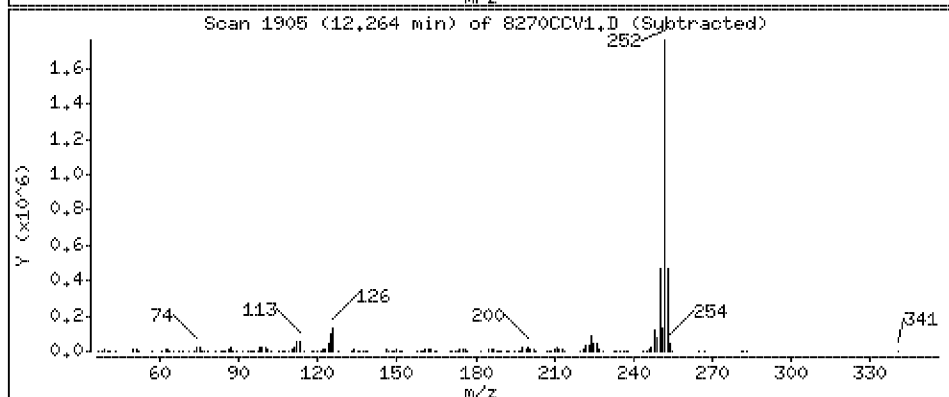
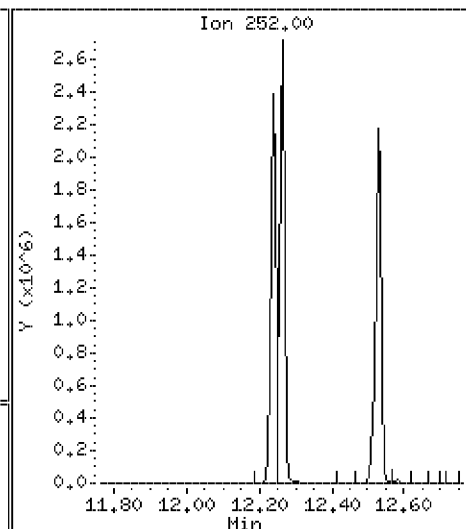
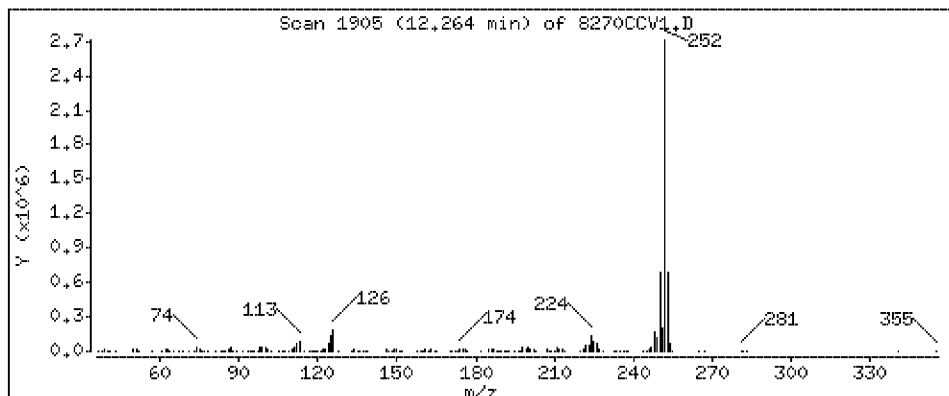
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

128 Benzo[k]fluoranthene

Concentration: 46.7 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

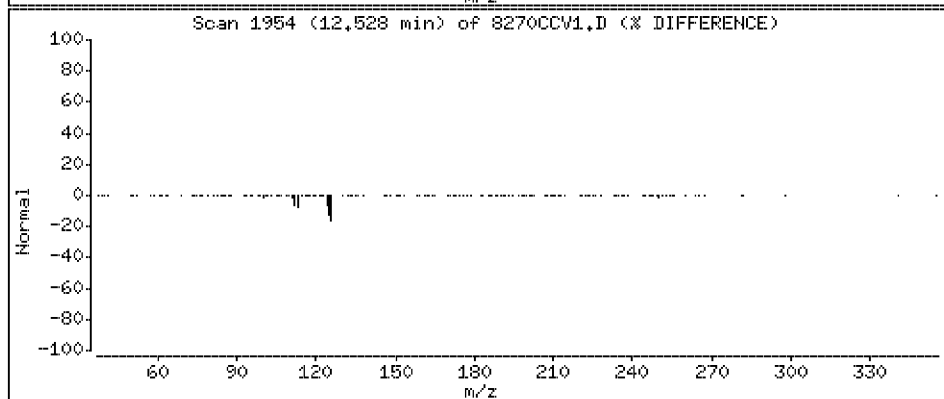
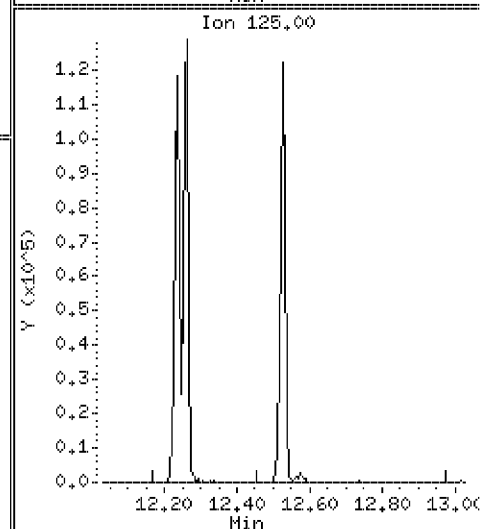
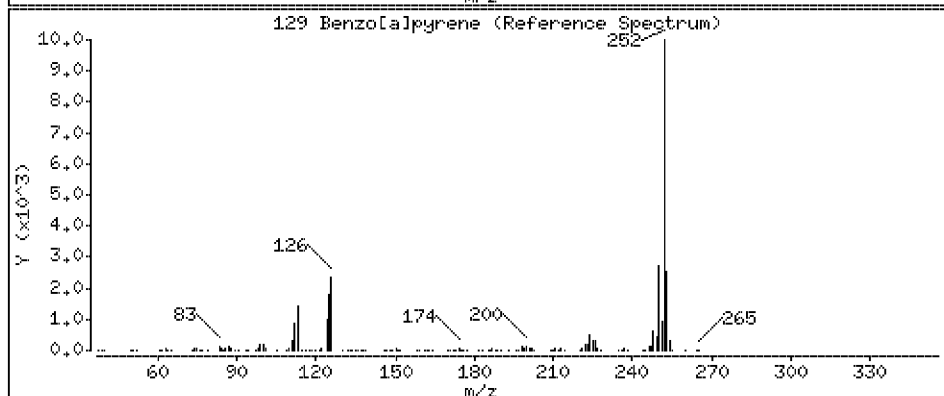
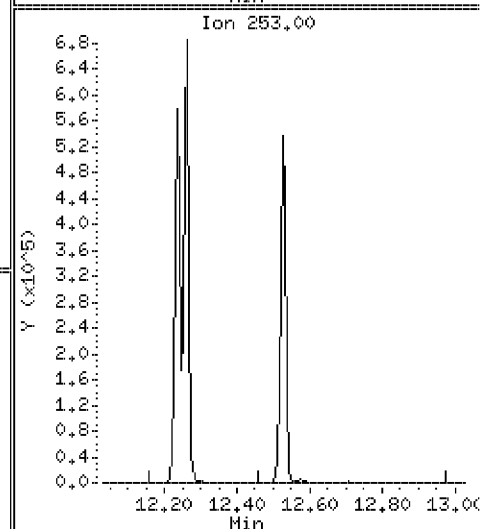
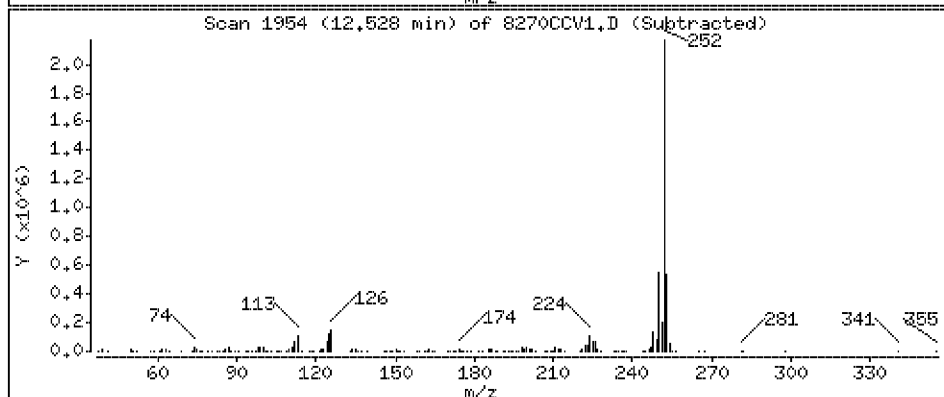
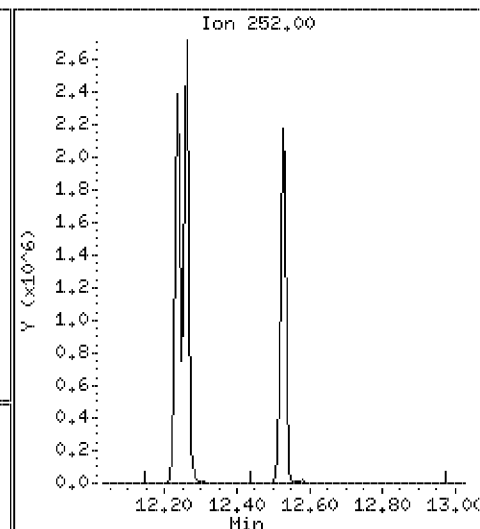
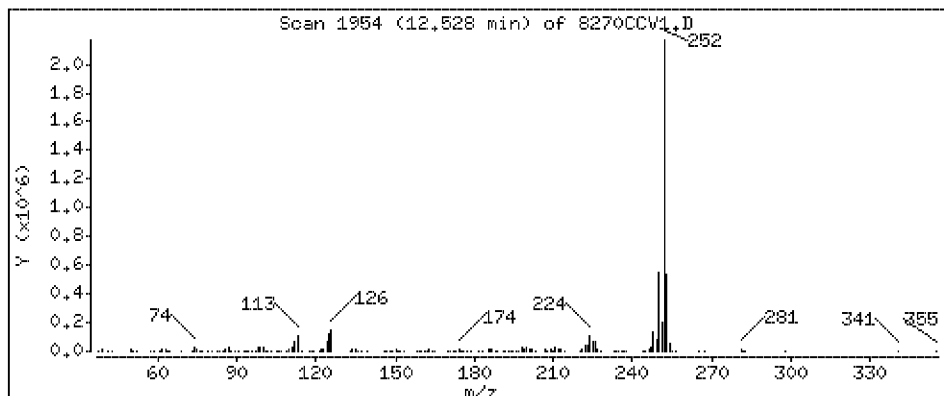
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

129 Benzo[ap]pyrene

Concentration: 46.9 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

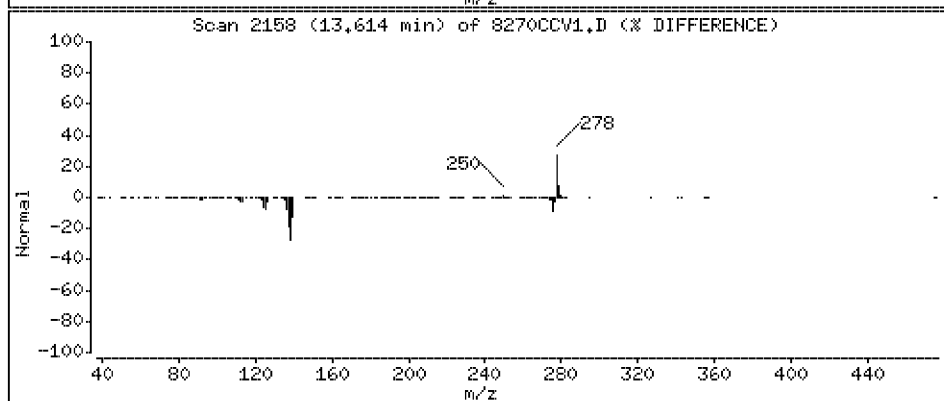
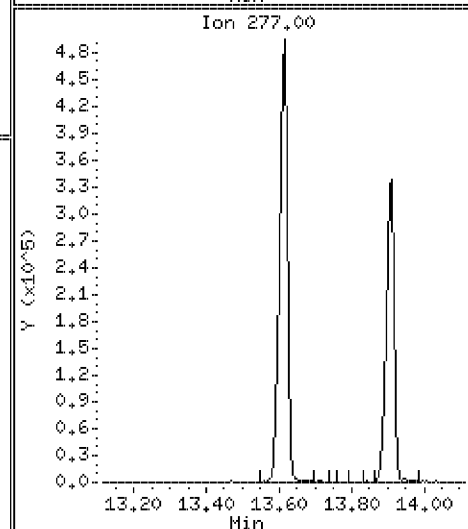
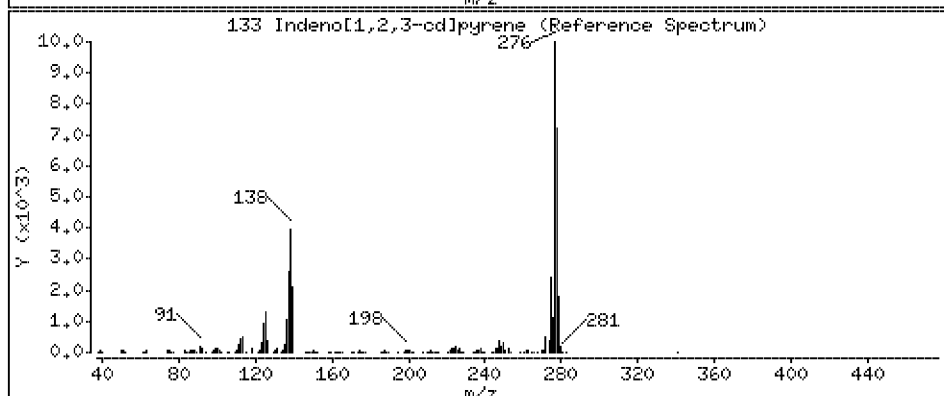
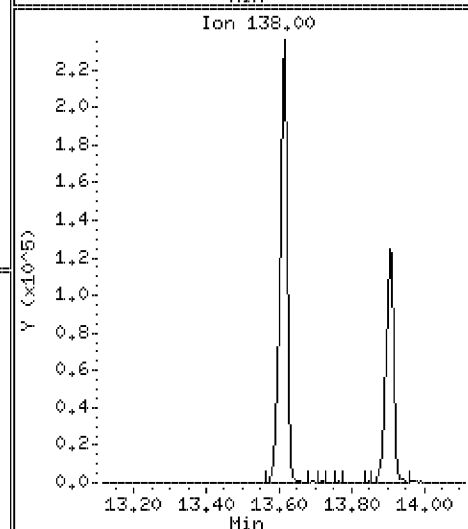
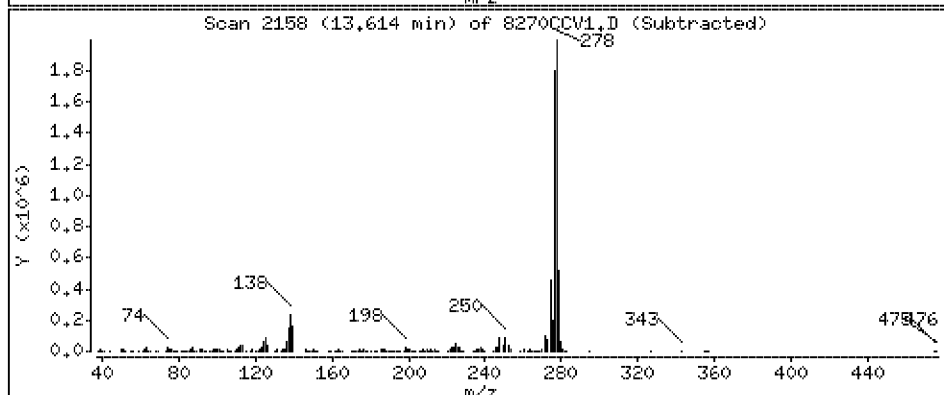
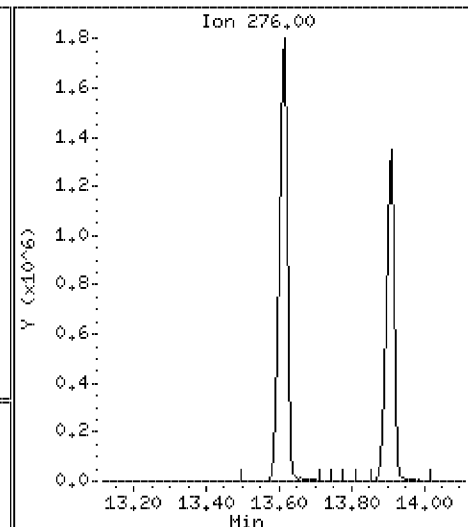
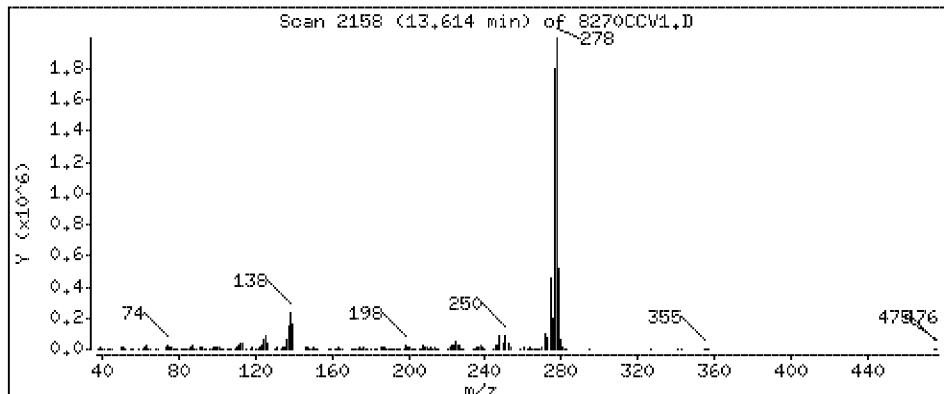
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

133 Indeno[1,2,3-cd]pyrene

Concentration: 46.4 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

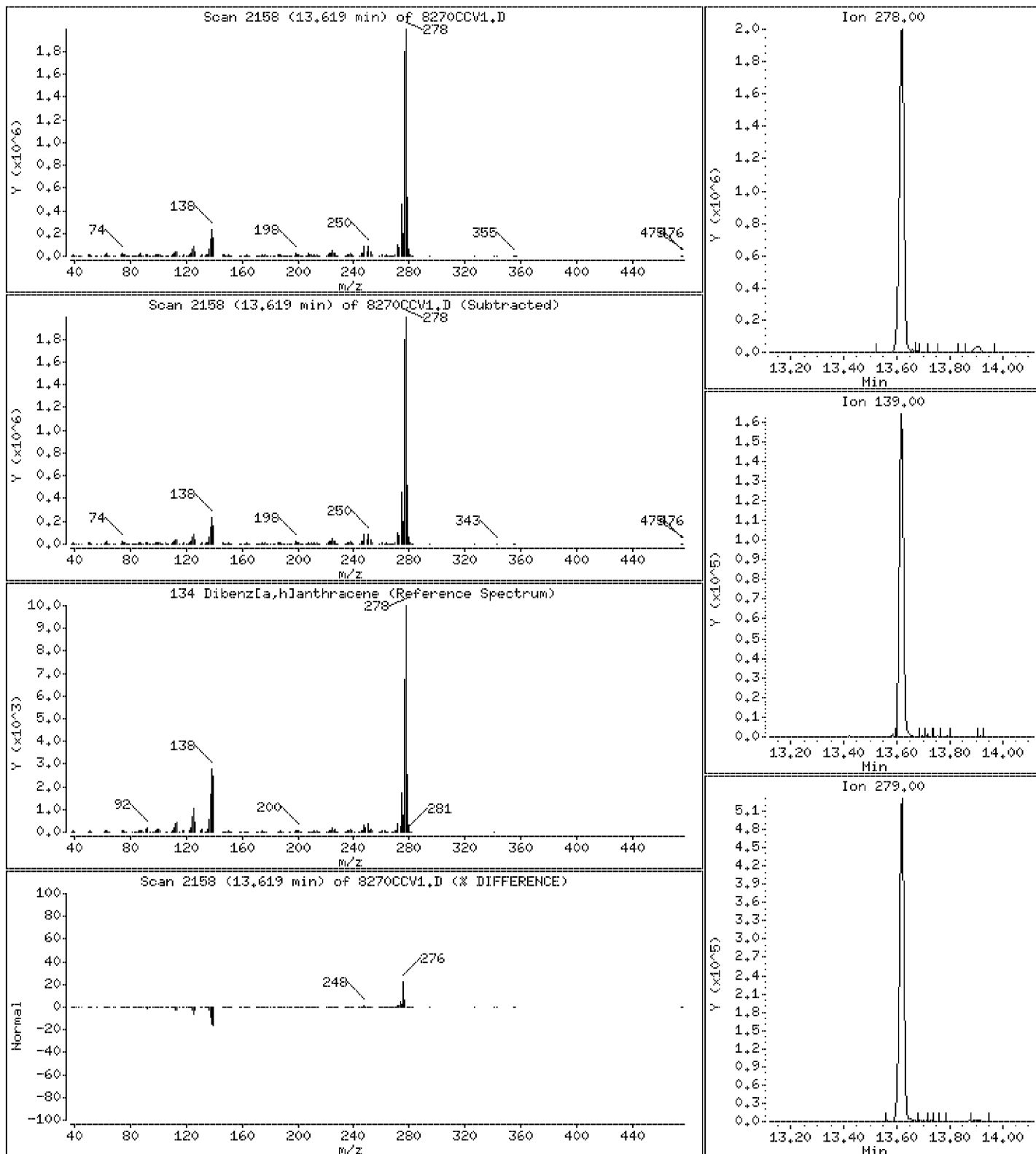
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

134 Dibenz[a,h]anthracene

Concentration: 46.6 ug/l



Date : 04-MAY-2012 08:13

Client ID: 8270CCV1

Instrument: smsd03.i

Sample Info: 45924

Purge Volume: 1000.0

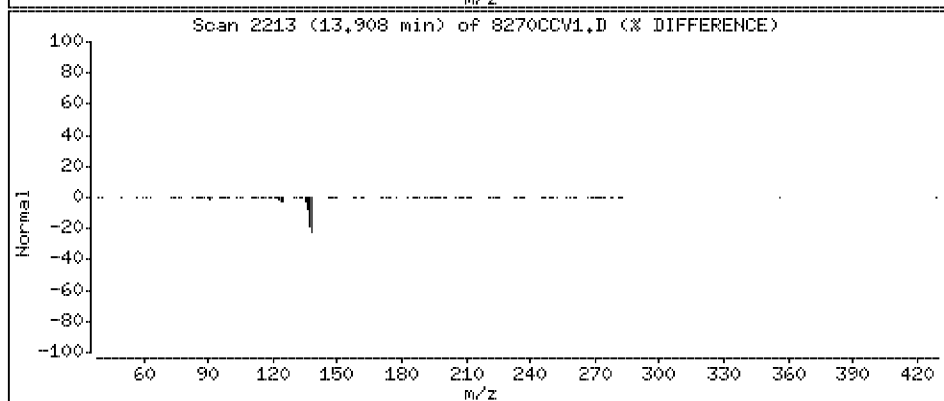
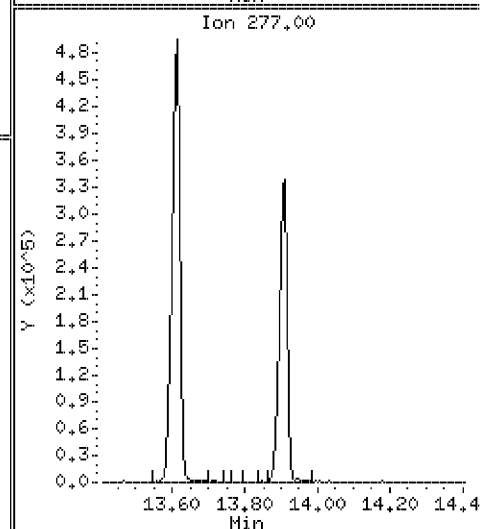
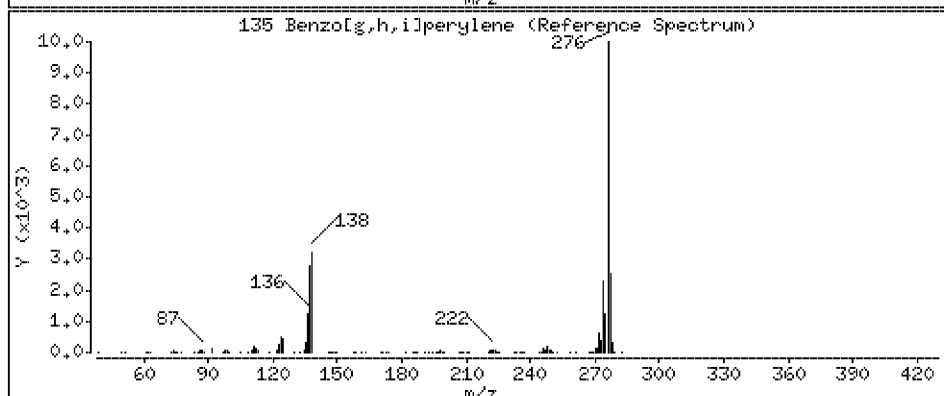
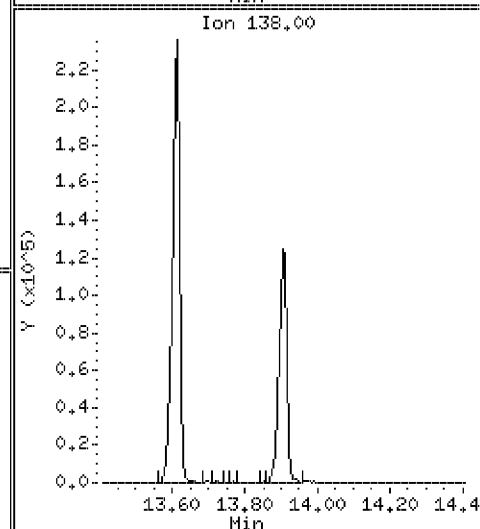
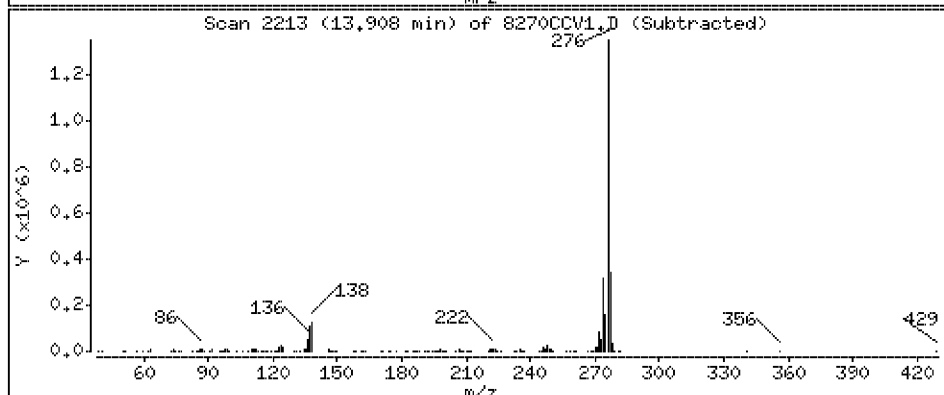
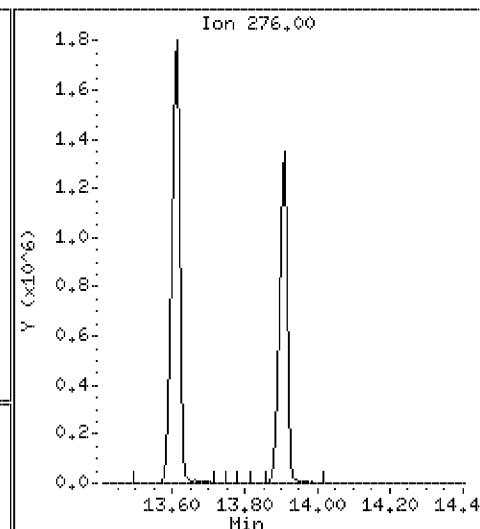
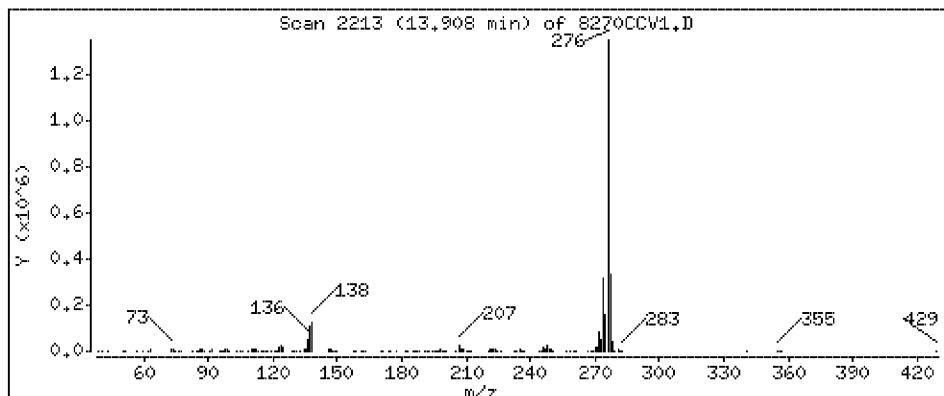
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

135 Benzo[*g,h,i*]perylene

Concentration: 44.2 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3050412.b\BSCCV1.D
 Lab Smp Id: 45936 Client Smp ID: BSCCV1
 Inj Date : 04-MAY-2012 08:36 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 45936
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3050412.b\8270bcs.m
 Meth Date : 07-May-2012 17:35 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 18:17 Cal File: AP9CAL4.D
 Als bottle: 2 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: BZSOWcal.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
9 Benzaldehyde CAS #: 100-52-7									
3.981	3.981	(0.915)	77	362049	45.0000	48.0	80.00- 120.00	100.00	
3.982	3.981	(0.915)	106	272109			45.16- 105.16	75.16	
3.981	3.981	(0.915)	51	126755			5.01- 65.01	35.01	
* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.352	4.352	(1.000)	152	247385	40.0000		80.00- 120.00	100.00	
4.351	4.352	(1.000)	115	157735			31.12- 91.12	63.76	
4.351	4.352	(1.000)	150	384466			117.02- 177.02	155.41	
25 Acetophenone CAS #: 98-86-2									
4.706	4.708	(0.854)	105	593962	45.0000	47.2	80.00- 120.00	100.00	
4.706	4.708	(0.854)	77	605775			73.68- 133.68	101.99	
4.705	4.708	(0.854)	51	154158			0.00- 57.35	25.95	
* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.513	5.513	(1.000)	136	836790	40.0000		80.00- 120.00	100.00	
5.512	5.513	(1.000)	68	43220			0.00- 35.11	5.16	
50 Caprolactam CAS #: 105-60-2									
5.911	5.911	(1.072)	55	107964	45.0000	44.9	80.00- 120.00	100.00	
5.912	5.911	(1.072)	113	117865			79.17- 139.17	109.17	

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
50 Caprolactam (continued)								
5.912	5.911	(1.072)	85	89511			52.91- 112.91	82.91

61 1,1-Biphenyl								
						CAS #: 92-52-4		
6.645	6.645	(0.922)	154	1101716	45.0000	46.2	80.00- 120.00	100.00
6.645	6.645	(0.922)	76	138339			0.00- 42.56	12.56
6.645	6.645	(0.922)	51	75167			0.00- 36.82	6.82

* 70 Acenaphthene-d10								
						CAS #: 15067-26-2		
7.207	7.208	(1.000)	164	598601	40.0000		80.00- 120.00	100.00
7.207	7.208	(1.000)	162	565171			66.36- 126.36	94.42
7.207	7.208	(1.000)	160	263826			14.03- 74.03	44.07

95 Atrazine								
						CAS #: 1912-24-9		
8.388	8.388	(0.968)	200	396263	45.0000	48.7	80.00- 120.00	100.00
8.387	8.388	(0.968)	58	82988			0.00- 50.94	20.94
8.389	8.388	(0.968)	215	208333			22.57- 82.57	52.57

* 100 Phenanthrene-d10								
						CAS #: 1517-22-2		
8.662	8.665	(1.000)	188	1215181	40.0000		80.00- 120.00	100.00
8.661	8.665	(1.000)	94	69589			0.00- 36.25	5.73
8.661	8.665	(1.000)	80	87260			0.00- 37.67	7.18

110 Benzidine								
						CAS #: 92-87-5		
9.991	9.991	(0.887)	184	1294788	45.0000	50.0	80.00- 120.00	100.00
9.990	9.991	(0.887)	92	60826			0.00- 34.70	4.70
9.991	9.991	(0.887)	185	192093			0.00- 44.84	14.84

122 3,3'-Dichlorobenzidine								
						CAS #: 91-94-1		
11.227	11.227	(0.997)	252	989641	45.0000	50.7	80.00- 120.00	100.00
11.227	11.227	(0.997)	254	638127			34.48- 94.48	64.48
11.226	11.227	(0.997)	126	69129			0.00- 36.99	6.99

* 121 Chrysene-d12								
						CAS #: 1719-03-5		
11.258	11.259	(1.000)	240	1686535	40.0000		80.00- 120.00	100.00
11.257	11.259	(1.000)	120	81762			0.00- 34.90	4.85
11.258	11.259	(1.000)	236	458476			0.00- 56.56	27.18

* 130 Perylene-d12								
						CAS #: 1520-96-3		
12.575	12.576	(1.000)	264	1779301	40.0000		80.00- 120.00	100.00
12.575	12.576	(1.000)	260	439695			0.00- 54.67	24.71
12.575	12.576	(1.000)	265	411336			0.00- 53.09	23.12

Date : 04-MAY-2012 08:36

Client ID: BSCCV1

Instrument: smsd03.i

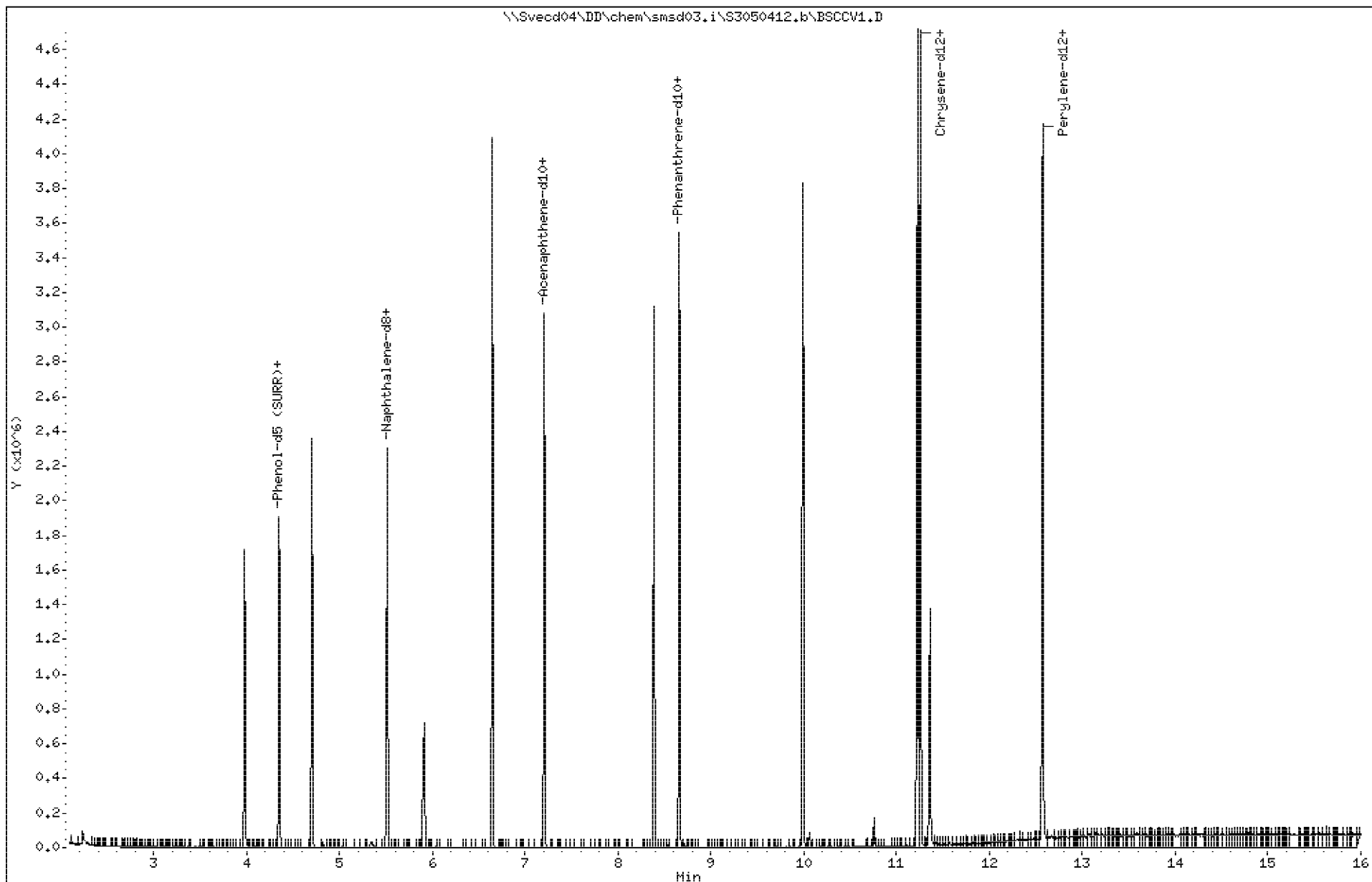
Sample Info: 45936

Operator: PEL

Purge Volume: 1000.0

Column diameter: 0.25

Column phase: HPMS-5



Date : 04-MAY-2012 08:36

Client ID: BSCCV1

Instrument: smsd03.i

Sample Info: 45936

Purge Volume: 1000.0

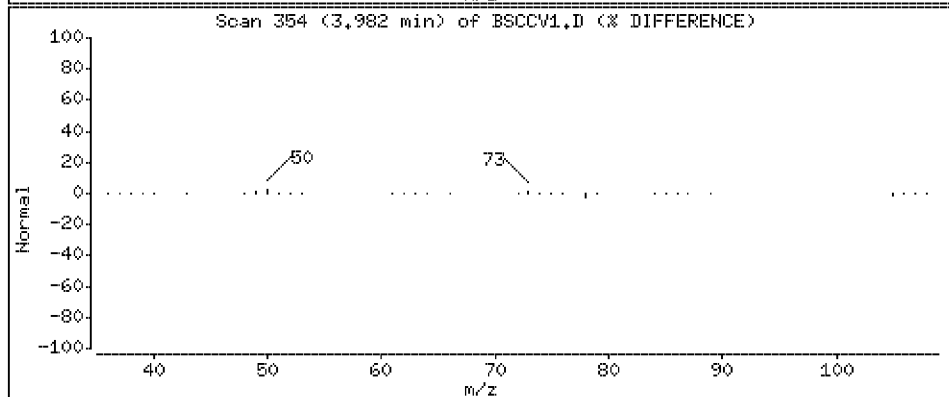
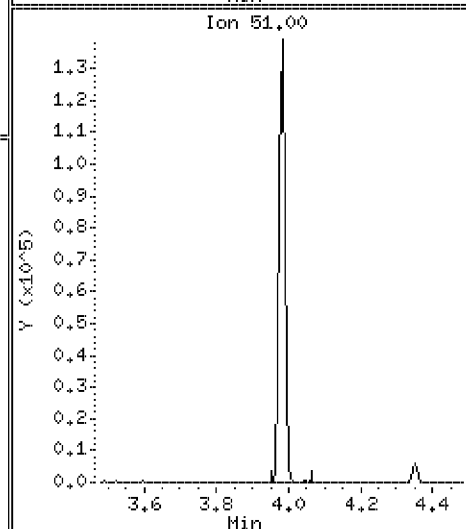
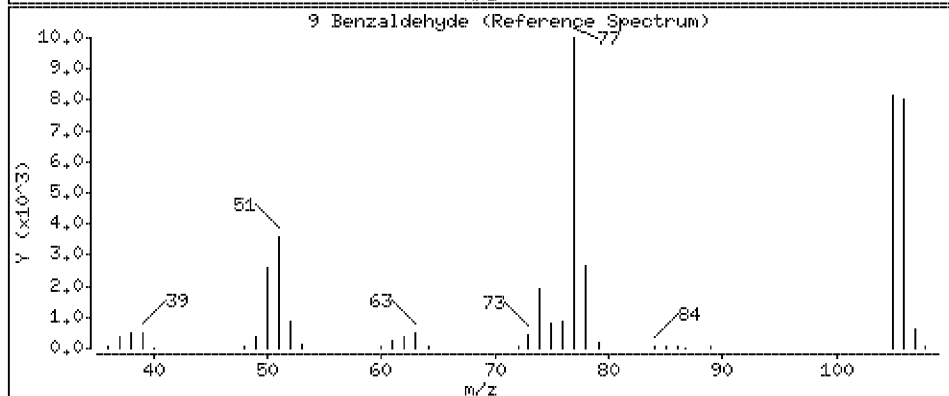
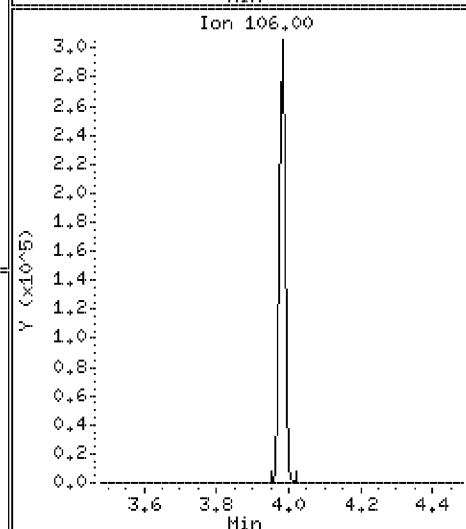
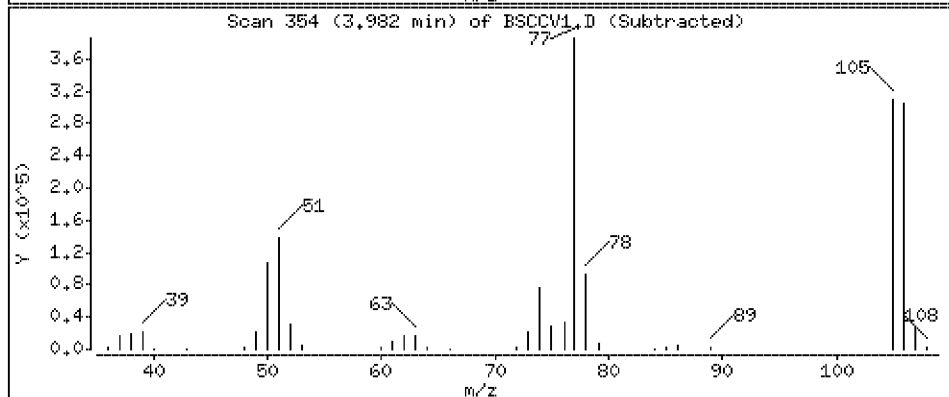
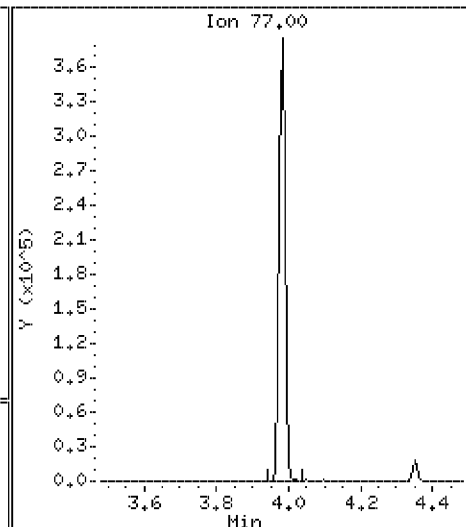
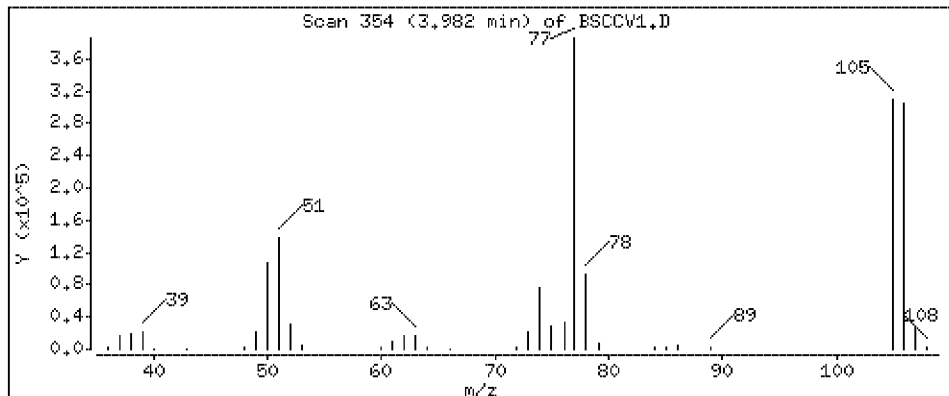
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

9 Benzaldehyde

Concentration: 48.0 ug/l



Date : 04-MAY-2012 08:36

Client ID: BSCCV1

Instrument: smsd03.i

Sample Info: 45936

Purge Volume: 1000.0

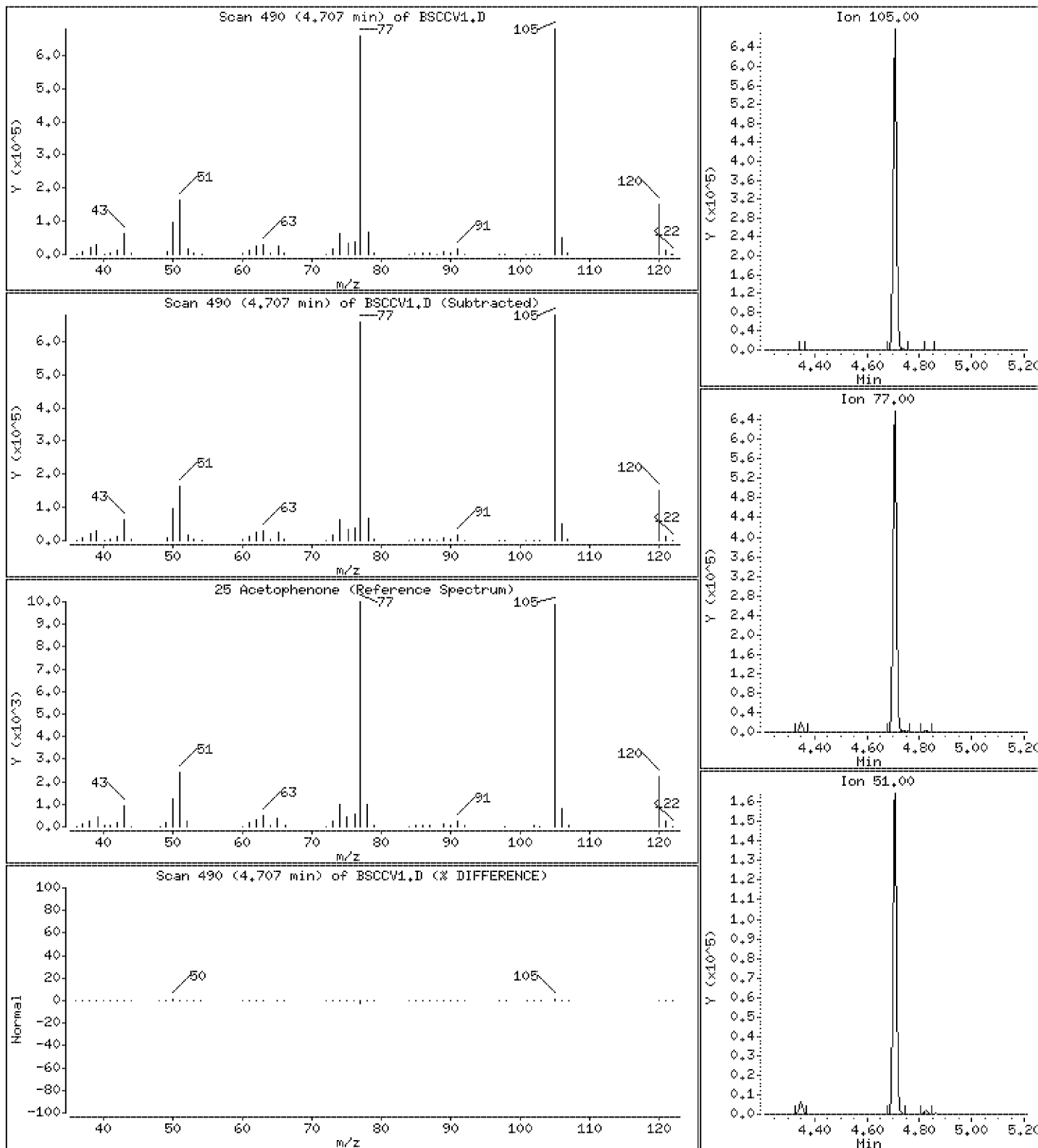
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

25 Acetophenone

Concentration: 47.2 ug/l



Date : 04-MAY-2012 08:36

Client ID: BSCCV1

Instrument: smsd03.i

Sample Info: 45936

Purge Volume: 1000.0

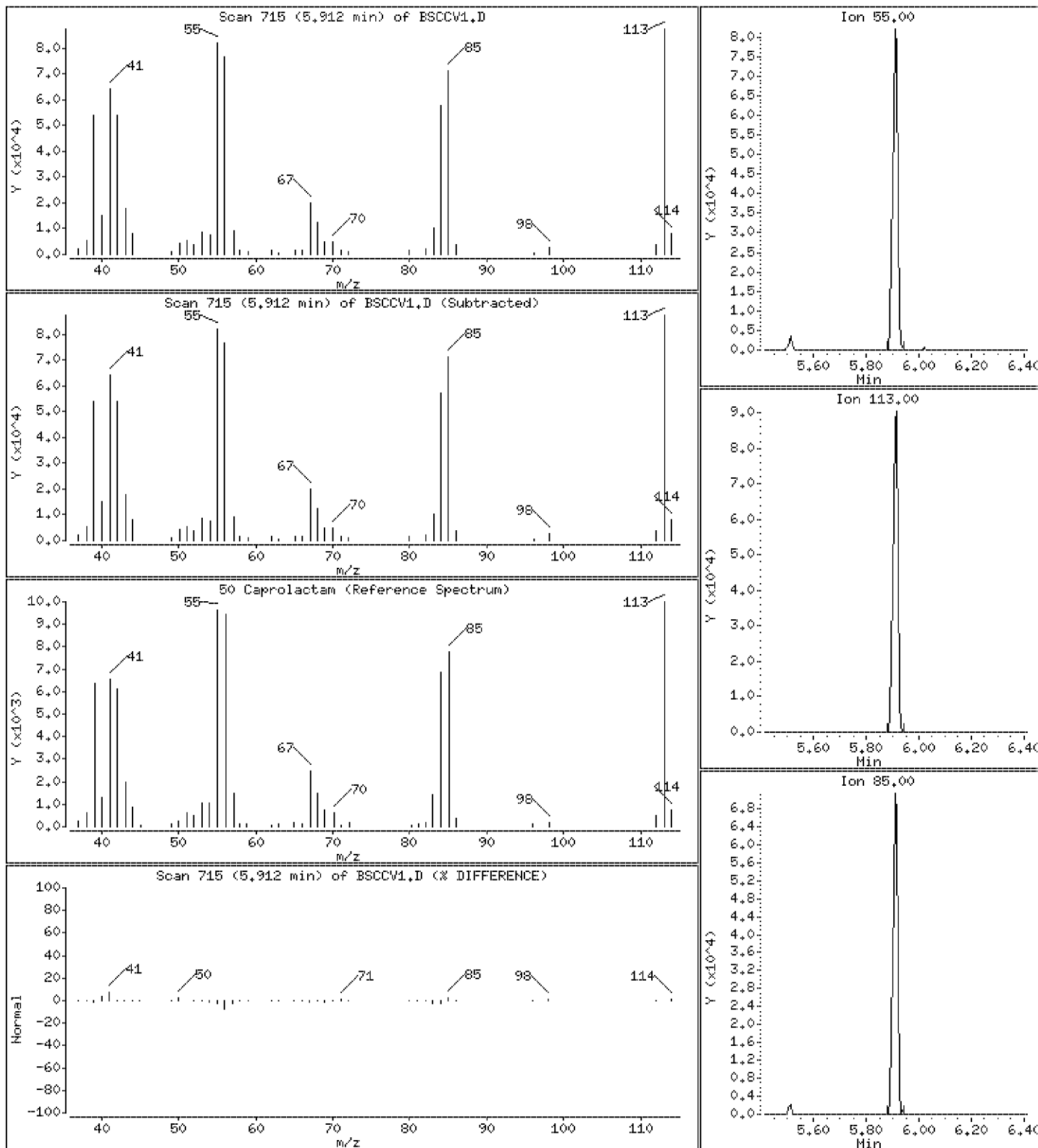
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

50 Caprolactam

Concentration: 44.9 ug/l



Date : 04-MAY-2012 08:36

Client ID: BSCCV1

Instrument: smsd03.i

Sample Info: 45936

Purge Volume: 1000.0

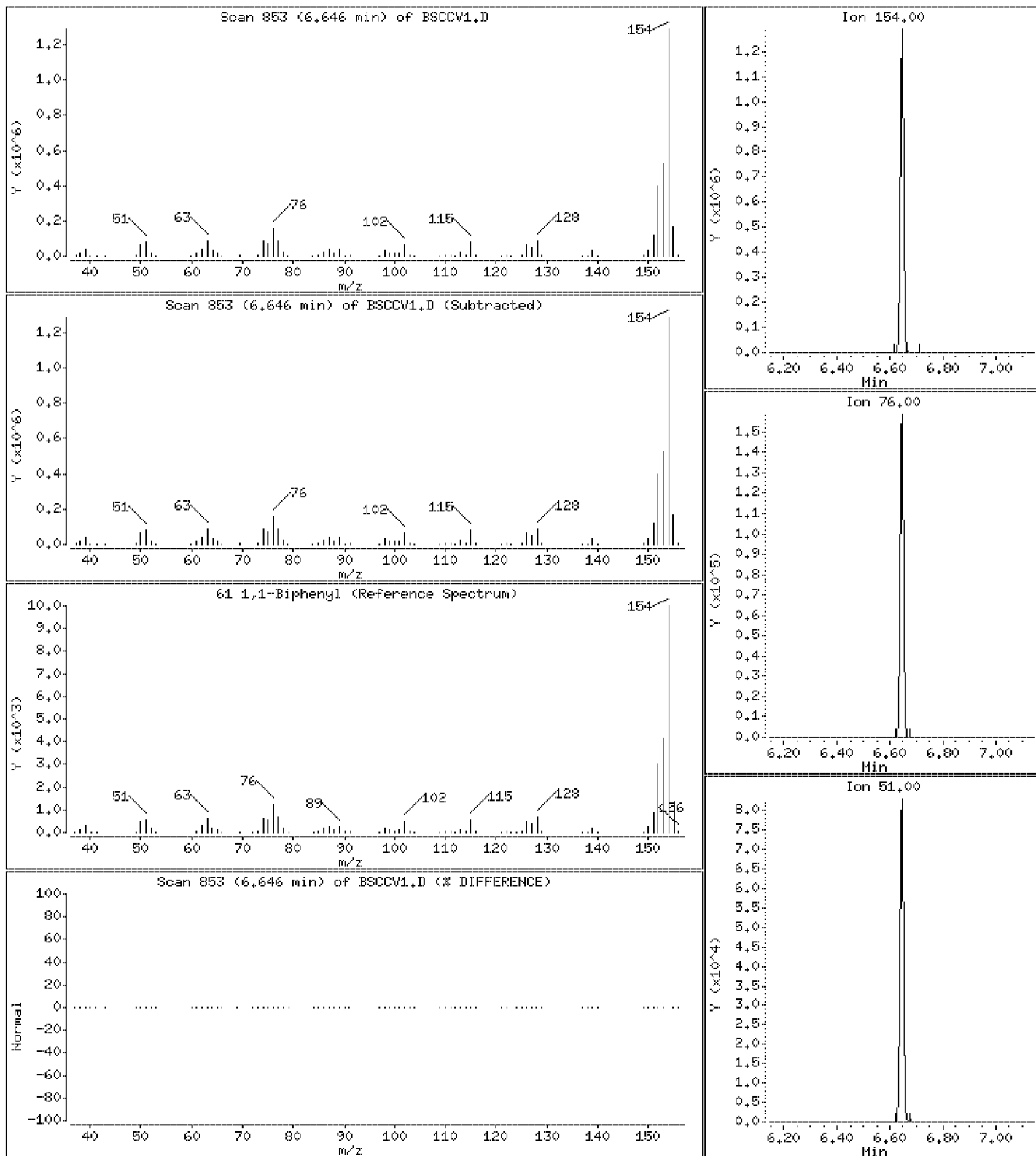
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

61 1,1-Biphenyl

Concentration: 46.2 ug/l



Date : 04-MAY-2012 08:36

Client ID: BSCCV1

Instrument: smsd03.i

Sample Info: 45936

Purge Volume: 1000.0

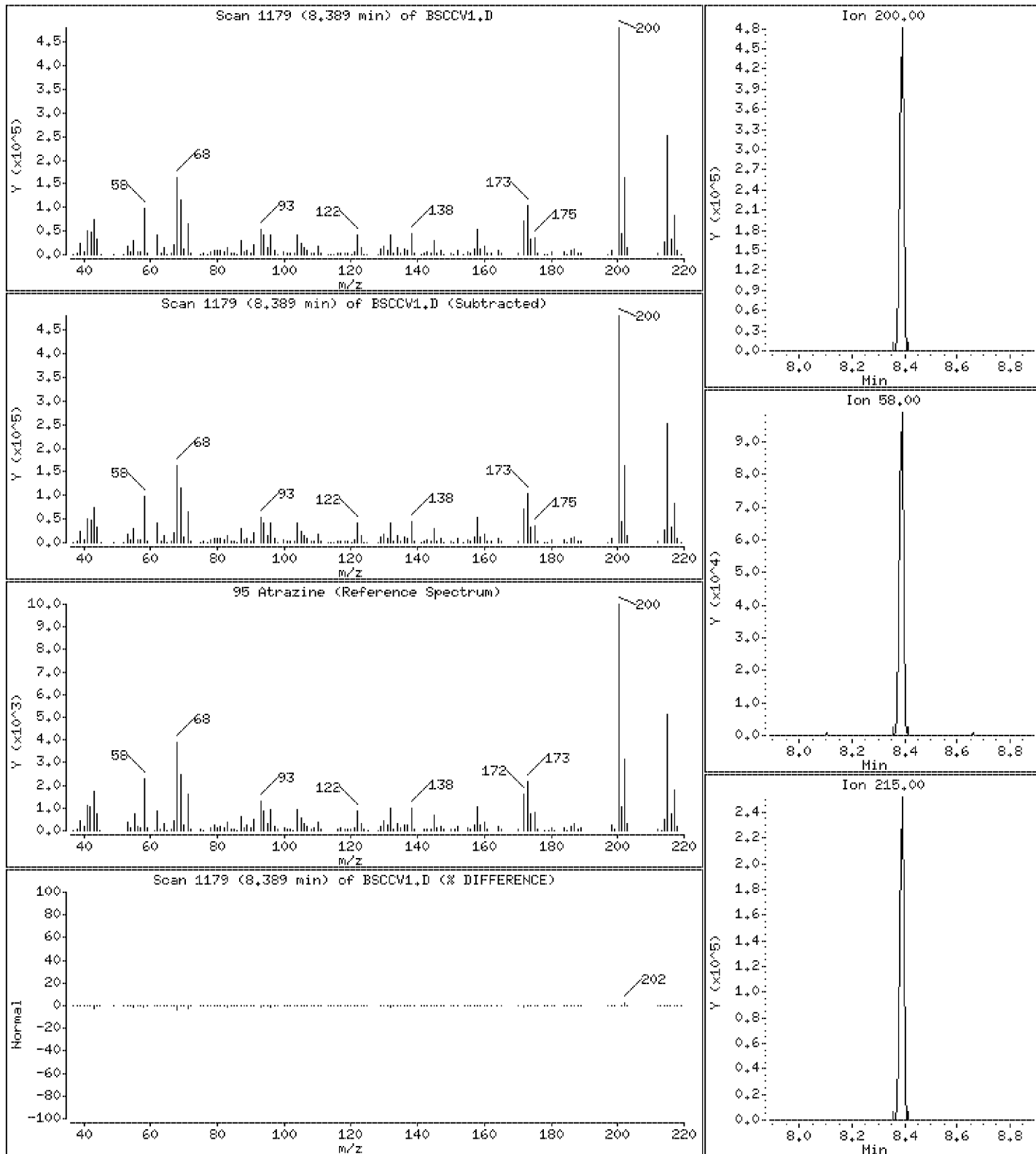
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

95 Atrazine

Concentration: 48.7 ug/l



Date : 04-MAY-2012 08:36

Client ID: BSCCV1

Instrument: smsd03.i

Sample Info: 45936

Purge Volume: 1000.0

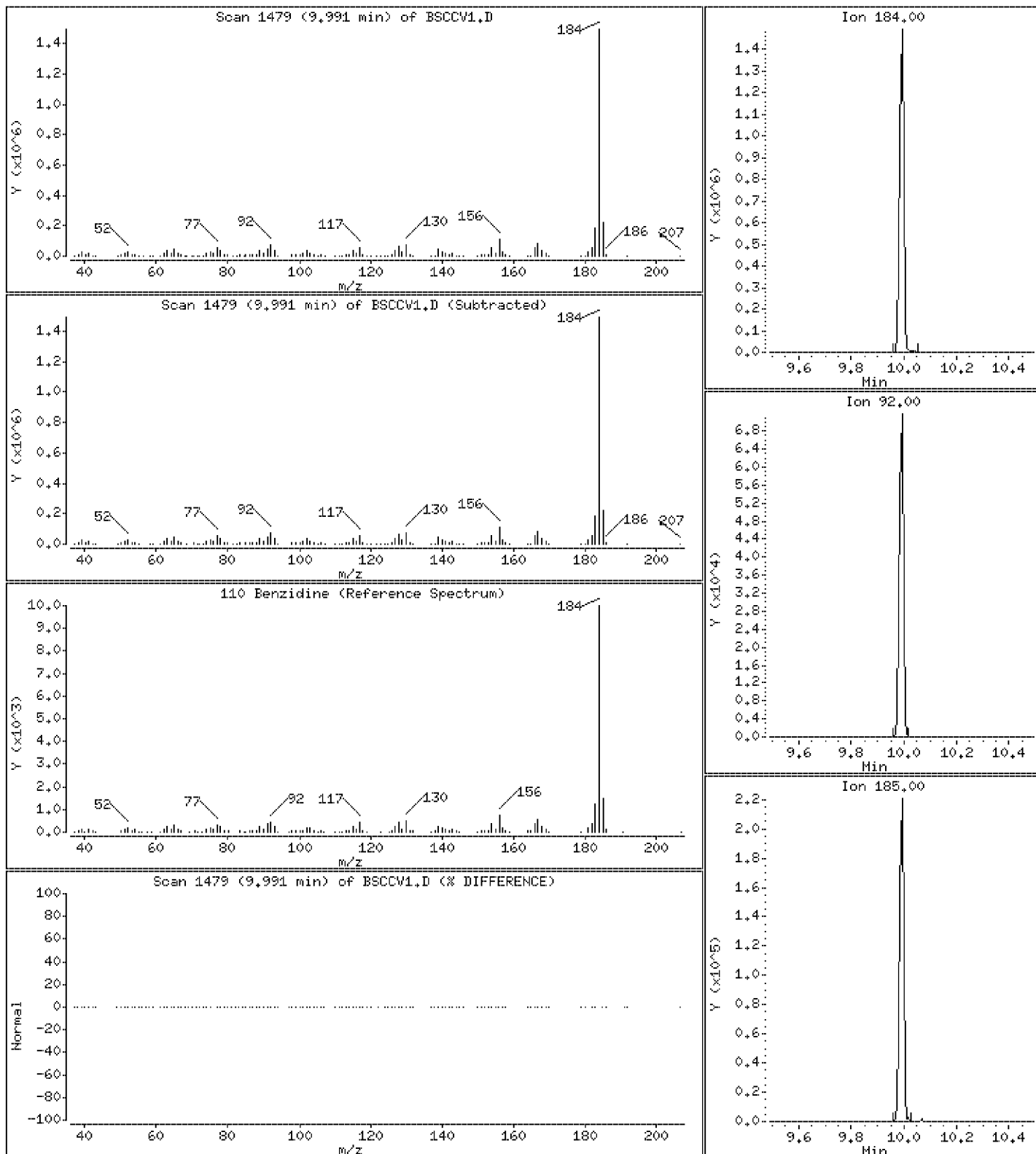
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

110 Benzidine

Concentration: 50.0 ug/l



Date : 04-MAY-2012 08:36

Client ID: BSCCV1

Instrument: smsd03.i

Sample Info: 45936

Purge Volume: 1000.0

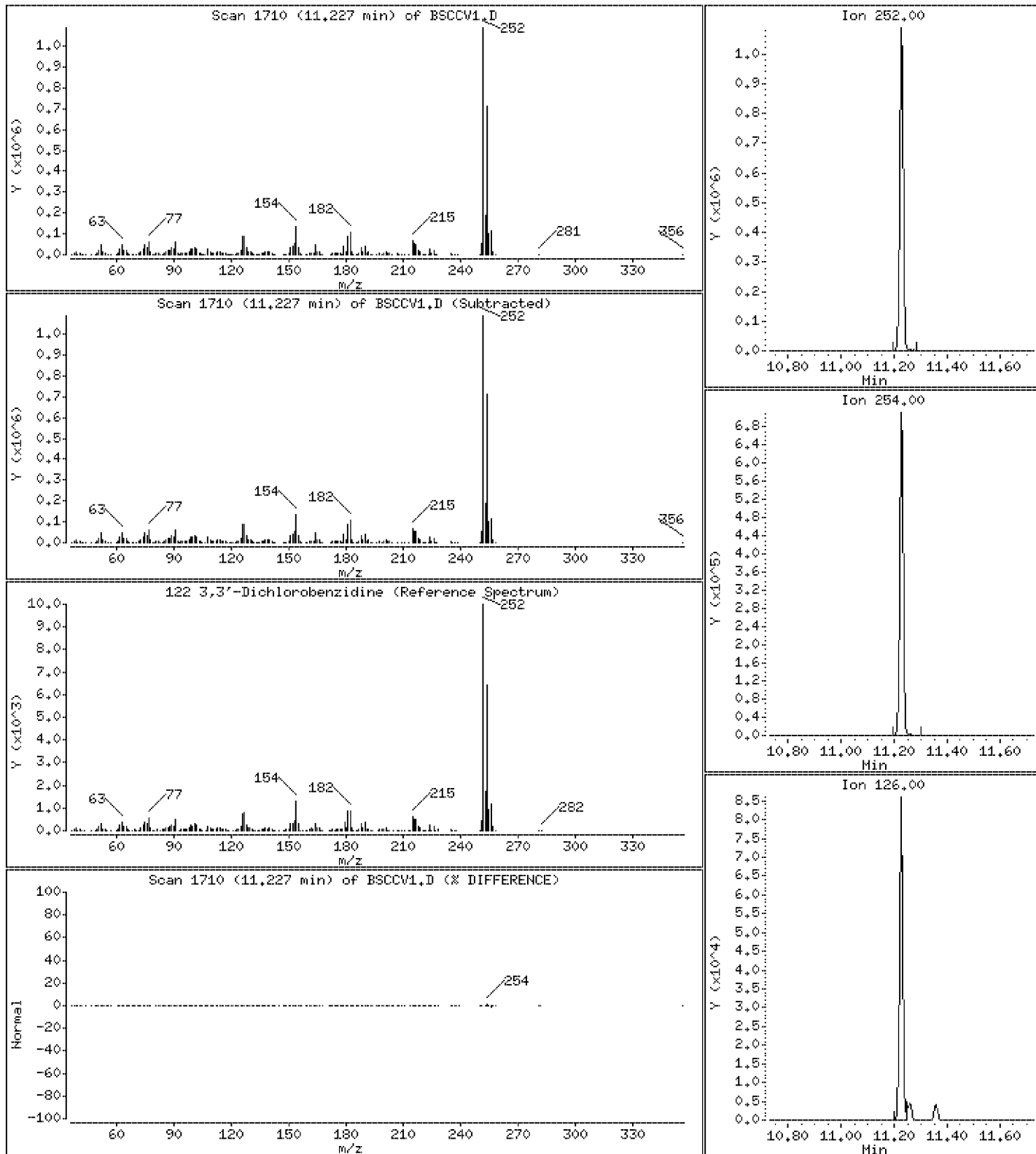
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

122 3,3'-Dichlorobenzidine

Concentration: 50.7 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3050412.b\AP9CCV1.D
 Lab Smp Id: 45958 Client Smp ID: AP9CCV1
 Inj Date : 04-MAY-2012 09:00 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : 45958
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3050412.b\8270bcs.m
 Meth Date : 07-May-2012 17:35 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 18:17 Cal File: AP9CAL4.D
 Als bottle: 3 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ap9cal.sub
 Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * (1/(Vo/1000))*Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
3 2- Picoline CAS #: 109-06-8									
2.829	2.829	(0.650)	93	408905	45.0000	43.2	80.00- 120.00	100.00	
2.829	2.829	(0.650)	66	208771			21.06- 81.06	51.06	
2.829	2.829	(0.650)	92	108365			0.00- 56.50	26.50	
4 N-Nitrosomethylethylamine CAS #: 10595-95-6									
2.908	2.908	(0.668)	88	177695	45.0000	44.0	80.00- 120.00	100.00	
2.910	2.908	(0.669)	43	81864			16.07- 76.07	46.07	
2.908	2.908	(0.668)	42	179702			71.13- 131.13	101.13	
5 Methyl Methanesulfonate CAS #: 66-27-3									
3.145	3.145	(0.723)	80	296598	45.0000	44.4	80.00- 120.00	100.00	
3.144	3.145	(0.723)	79	168544			26.83- 86.83	56.83	
3.145	3.145	(0.723)	65	80965			0.00- 57.30	27.30	
7 N-Nitrosodiethylamine CAS #: 55-18-5									
3.457	3.457	(0.794)	102	177944	45.0000	44.4	80.00- 120.00	100.00	
3.457	3.457	(0.794)	42	121434			38.24- 98.24	68.24	
3.457	3.457	(0.794)	57	71185			10.00- 70.00	40.00	
8 Ethyl Methanesulfonate CAS #: 62-50-0									
3.697	3.697	(0.849)	79	304267	45.0000	43.9	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET	RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
8 Ethyl Methanesulfonate (continued)									
3.697	3.697	(0.849)	109	153071			20.31-	80.31	50.31
3.697	3.697	(0.849)	97	57886			0.00-	49.02	19.02

12 Pentachloroethane CAS #: 76-01-7									
4.112	4.112	(0.945)	167	183079	45.0000	46.3	80.00-	120.00	100.00
4.111	4.112	(0.945)	117	123947			37.70-	97.70	67.70
4.112	4.112	(0.945)	130	79710			13.54-	73.54	43.54

* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.352	4.352	(1.000)	152	258847	40.0000		80.00-	120.00	100.00
4.352	4.352	(1.000)	115	158197			31.12-	91.12	61.12
4.352	4.352	(1.000)	150	380546			117.02-	177.02	147.02

24 N-Nitrosopyrrolidine CAS #: 930-55-2									
4.695	4.695	(1.079)	100	196594	45.0000	46.6	80.00-	120.00	100.00
4.695	4.695	(1.079)	41	125669			33.92-	93.92	63.92
4.695	4.695	(1.079)	42	115216			28.61-	88.61	58.61

25 Acetophenone CAS #: 98-86-2									
4.708	4.708	(0.854)	105	546774	45.0000	42.8	80.00-	120.00	100.00
4.708	4.708	(0.854)	77	566900			73.68-	133.68	103.68
4.708	4.708	(0.854)	51	149548			0.00-	57.35	27.35

27 N-Nitrosomorpholine CAS #: 59-89-2									
4.725	4.725	(1.086)	56	197258	45.0000	45.6	80.00-	120.00	100.00
4.726	4.725	(1.086)	116	66397			3.66-	63.66	33.66
4.726	4.725	(1.086)	86	142160			42.07-	102.07	72.07

29 o-Toluidine CAS #: 95-53-4									
4.743	4.743	(1.090)	106	604819	45.0000	43.9	80.00-	120.00	100.00
4.743	4.743	(1.090)	77	156540			0.00-	55.88	25.88
4.743	4.743	(1.090)	107	447758			44.03-	104.03	74.03

33 N-Nitrosopiperidine CAS #: 100-75-4									
5.003	5.003	(0.907)	114	171405	45.0000	46.5	80.00-	120.00	100.00
5.002	5.003	(0.907)	42	190887			81.37-	141.37	111.37
5.002	5.003	(0.907)	55	100818			28.82-	88.82	58.82

37 o,o,o-Triethylphosphorothioate CAS #: 126-68-1									
5.247	5.247	(1.206)	198	293782	45.0000	47.2	80.00-	120.00	100.00
5.246	5.247	(1.205)	97	188963			34.32-	94.32	64.32
5.246	5.247	(1.205)	65	151532			21.58-	81.58	51.58

39 a,a-Dimethylphenethylamine CAS #: 122-09-8									
5.368	5.368	(0.974)	58	590178	45.0000	45.6	80.00-	120.00	100.00 (M)
5.368	5.368	(0.974)	91	230259			9.02-	69.02	39.02
5.368	5.368	(0.974)	65	111069			0.00-	48.82	18.82

* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.513	5.513	(1.000)	136	848496	40.0000		80.00-	120.00	100.00
5.513	5.513	(1.000)	68	43336			0.00-	35.11	5.11

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====
46 2,6-Dichlorophenol						CAS #: 87-65-0		
5.598	5.598	(1.015)	162	338837	45.0000	47.7	80.00- 120.00	100.00
5.597	5.598	(1.015)	63	260597			46.91- 106.91	76.91
5.597	5.598	(1.015)	98	92621			0.00- 57.33	27.33

47 Hexachloropropene						CAS #: 1888-71-7		
5.618	5.618	(1.019)	213	449965	45.0000	47.6	80.00- 120.00	100.00
5.618	5.618	(1.019)	215	285573			33.47- 93.47	63.47
5.617	5.618	(1.019)	117	87193			0.00- 49.38	19.38

49 N-Nitrosodi-n-butylamine						CAS #: 924-16-3		
5.901	5.901	(1.070)	84	321149	45.0000	47.0	80.00- 120.00	100.00
5.901	5.901	(1.070)	57	189075			28.87- 88.87	58.87
5.901	5.901	(1.070)	41	167760			22.24- 82.24	52.24

52 Isosafrole						CAS #: 120-58-1		
6.108	6.108	(1.108)	162	322797	45.0000	46.9	80.00- 120.00	100.00
6.107	6.108	(1.108)	104	242355			45.08- 105.08	75.08
6.108	6.108	(1.108)	131	153425			17.53- 77.53	47.53

56 1,2,4,5-Tetrachlorobenzene						CAS #: 95-94-3		
6.358	6.358	(0.882)	216	526277	45.0000	45.4	80.00- 120.00	100.00
6.358	6.358	(0.882)	214	409859			47.88- 107.88	77.88
6.357	6.358	(0.882)	108	88935			0.00- 46.90	16.90

60 Safrole						CAS #: 94-59-7		
6.610	6.610	(1.199)	162	315905	45.0000	48.9	80.00- 120.00	100.00
6.610	6.610	(1.199)	104	197482			32.51- 92.51	62.51
6.609	6.610	(1.199)	77	126288			9.98- 69.98	39.98

64 1,4-Naphthoquinone						CAS #: 130-15-4		
6.838	6.838	(0.949)	158	325063	45.0000	49.7	80.00- 120.00	100.00
6.838	6.838	(0.949)	102	275818			54.85- 114.85	84.85
6.838	6.838	(0.949)	130	149858			16.10- 76.10	46.10

66 1,3-Dinitrobenzene						CAS #: 99-65-0		
6.977	6.977	(0.968)	168	152676	45.0000	49.4	80.00- 120.00	100.00
6.977	6.977	(0.968)	75	197344			99.26- 159.26	129.26
6.976	6.977	(0.968)	50	109240			41.55- 101.55	71.55

* 70 Acenaphthene-d10						CAS #: 15067-26-2		
7.208	7.208	(1.000)	164	611038	40.0000		80.00- 120.00	100.00
7.208	7.208	(1.000)	162	588786			66.36- 126.36	96.36
7.208	7.208	(1.000)	160	269022			14.03- 74.03	44.03

73 Pentachlorobenzene						CAS #: 608-93-5		
7.372	7.372	(1.023)	250	530759	45.0000	47.0	80.00- 120.00	100.00
7.373	7.372	(1.023)	252	350266			35.99- 95.99	65.99
7.371	7.372	(1.023)	108	145038			0.00- 57.33	27.33

77 1-Naphthylamine						CAS #: 134-32-7		
7.487	7.487	(1.039)	143	478093	45.0000	44.7	80.00- 120.00	100.00
7.487	7.487	(1.039)	115	281462			28.87- 88.87	58.87

AMOUNTS								
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====
77 1-Naphthylamine (continued)								
7.486	7.487	(1.039)	89	59109			0.00- 42.36	12.36

78 2,3,4,6-Tetrachlorophenol CAS #: 58-90-2								
7.538	7.538	(1.046)	232	319947	45.0000	51.6	80.00- 120.00	100.00
7.537	7.538	(1.046)	168	84498			0.00- 56.41	26.41
7.537	7.538	(1.046)	131	126537			9.55- 69.55	39.55

79 2-Naphthylamine CAS #: 91-59-8								
7.566	7.566	(1.050)	143	651691	45.0000	46.5	80.00- 120.00	100.00
7.565	7.566	(1.050)	115	373706			27.34- 87.34	57.34
7.566	7.566	(1.050)	116	143129			0.00- 51.96	21.96

83 5-Nitro-ortho-toluidine CAS #: 99-55-8								
7.763	7.763	(1.077)	152	264449	45.0000	48.6	80.00- 120.00	100.00
7.763	7.763	(1.077)	106	193873			43.31- 103.31	73.31
7.763	7.763	(1.077)	77	338792			98.11- 158.11	128.11

90 1,3,5-Trinitrobenzene CAS #: 99-35-4								
8.132	8.132	(1.128)	75	769329	45.0000	51.3	80.00- 120.00	100.00
8.132	8.132	(1.128)	74	480206			32.42- 92.42	62.42
8.134	8.132	(1.128)	213	290958			7.82- 67.82	37.82

89 Diallate CAS #: 2303-16-4								
8.140	8.140	(1.129)	86	358809	45.0000	47.3	80.00- 120.00	100.00(M)
8.140	8.140	(1.129)	43	355852			69.18- 129.18	99.18
8.140	8.140	(1.129)	234	255794			41.29- 101.29	71.29

92 Phenacetin CAS #: 62-44-2								
8.176	8.176	(0.944)	109	434353	45.0000	46.1	80.00- 120.00	100.00
8.175	8.176	(0.943)	108	492667			83.43- 143.43	113.43
8.176	8.176	(0.944)	179	291174			37.04- 97.04	67.04

91 p-Phenylenediamine CAS #: 106-50-3								
8.175	8.175	(0.943)	108	492667	45.0000	47.8	80.00- 120.00	100.00
8.175	8.175	(0.943)	80	139337			0.00- 58.28	28.28
8.175	8.175	(0.943)	53	63965			0.00- 42.98	12.98

97 Pentachloronitrobenzene CAS #: 82-68-8								
8.496	8.496	(0.980)	237	222393	45.0000	45.8	80.00- 120.00	100.00
8.497	8.496	(0.981)	295	86257			8.79- 68.79	38.79
8.494	8.496	(0.980)	142	156447			40.35- 100.35	70.35

98 4-Aminobiphenyl CAS #: 92-67-1								
8.483	8.483	(0.979)	169	1048062	45.0000	44.9	80.00- 120.00	100.00
8.483	8.483	(0.979)	168	232886			0.00- 52.22	22.22
8.482	8.483	(0.979)	115	127371			0.00- 42.15	12.15

99 Pronamide CAS #: 23950-58-5								
8.541	8.541	(0.986)	173	541139	45.0000	46.6	80.00- 120.00	100.00
8.542	8.541	(0.986)	175	352830			35.20- 95.20	65.20
8.541	8.541	(0.986)	145	209485			8.71- 68.71	38.71

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 100 Phenanthrene-d10					CAS #: 1517-22-2				
8.665	8.665	(1.000)	188	1351286	40.0000		80.00- 120.00	100.00	
8.664	8.665	(1.000)	94	84391			0.00- 36.25	6.25	
8.664	8.665	(1.000)	80	103698			0.00- 37.67	7.67	

102 Dinoseb					CAS #: 88-85-7				
8.662	8.662	(1.000)	211	346537	45.0000	45.0	80.00- 120.00	100.00	
8.662	8.662	(1.000)	163	134374			8.78- 68.78	38.78	
8.661	8.662	(1.000)	117	77074			0.00- 52.24	22.24	

106 4-Nitroquinoline-1-oxide					CAS #: 56-57-5				
9.448	9.448	(1.090)	174	11347	45.0000	32.2	80.00- 120.00	100.00	
9.448	9.448	(1.090)	128	27398			211.46- 271.46	241.46	
9.450	9.448	(1.091)	101	46839			382.79- 442.79	412.79	

107 Methapyrilene					CAS #: 91-80-5				
9.517	9.517	(1.098)	97	22082	45.0000	48.8	80.00- 120.00	100.00	
9.517	9.517	(1.098)	58	21453			67.15- 127.15	97.15	
9.518	9.517	(1.098)	191	4199			0.00- 49.02	19.02	

108 Isodrin					CAS #: 465-73-6				
9.704	9.704	(1.120)	193	181059	45.0000	44.0	80.00- 120.00	100.00	
9.703	9.704	(1.120)	66	165578			61.45- 121.45	91.45	
9.704	9.704	(1.120)	195	154762			55.48- 115.48	85.48	

113 Aramite					CAS #: 140-57-8				
10.277	10.277	(0.913)	185	187018	45.0000	44.9	80.00- 120.00	100.00 (M)	
10.277	10.277	(0.913)	191	97230			21.99- 81.99	51.99	
10.203	10.277	(0.906)	319	69648			7.24- 67.24	37.24	

114 p-Dimethylamino azobenzene					CAS #: 60-11-7				
10.368	10.368	(0.921)	225	475322	45.0000	46.3	80.00- 120.00	100.00	
10.367	10.368	(0.921)	120	413936			57.09- 117.09	87.09	
10.366	10.368	(0.921)	77	477658			70.49- 130.49	100.49	

115 Chlorobenzilate					CAS #: 510-15-6				
10.411	10.411	(0.925)	251	731859	45.0000	46.1	80.00- 120.00	100.00	
10.411	10.411	(0.925)	253	476711			35.14- 95.14	65.14	
10.410	10.411	(0.925)	139	634289			56.67- 116.67	86.67	

116 Kepone					CAS #: 143-50-0				
10.746	10.746	(0.954)	272	30381	45.0000	11.2	80.00- 120.00	100.00	
10.745	10.746	(0.954)	274	23848			48.50- 108.50	78.50	
10.745	10.746	(0.954)	237	18137			29.70- 89.70	59.70	

117 3,3-Dimethylbenzidine					CAS #: 119-93-7				
10.700	10.700	(0.950)	212	1444976	45.0000	46.3	80.00- 120.00	100.00	
10.699	10.700	(0.950)	106	91184			0.00- 36.31	6.31	
10.700	10.700	(0.950)	180	112178			0.00- 37.76	7.76	

119 2-Acetylaminofluorene					CAS #: 53-96-3				
10.950	10.950	(0.973)	181	862223	45.0000	47.9	80.00- 120.00	100.00	
10.950	10.950	(0.973)	223	567289			35.79- 95.79	65.79	

AMOUNTS									
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	
119 2-Acetylaminofluorene (continued)									
10.950	10.950	(0.973)	180	748512			56.81- 116.81	86.81	

* 121 Chrysene-d12					CAS #: 1719-03-5				
11.259	11.259	(1.000)	240	1745174	40.0000		80.00- 120.00	100.00	
11.257	11.259	(1.000)	120	85538			0.00- 34.90	4.90	
11.259	11.259	(1.000)	236	463493			0.00- 56.56	26.56	

126 7,12-Dimethylbenz(a)anthracen					CAS #: 57-97-6				
12.227	12.227	(0.972)	256	1166200	45.0000	46.2	80.00- 120.00	100.00	
12.227	12.227	(0.972)	241	662759			26.83- 86.83	56.83	
12.227	12.227	(0.972)	239	538055			16.14- 76.14	46.14	

* 130 Perylene-d12					CAS #: 1520-96-3				
12.576	12.576	(1.000)	264	1771944	40.0000		80.00- 120.00	100.00	
12.576	12.576	(1.000)	260	437162			0.00- 54.67	24.67	
12.575	12.576	(1.000)	265	409059			0.00- 53.09	23.09	

131 3-Methylcholanthrene					CAS #: 56-49-5				
12.836	12.836	(1.021)	268	1297999	45.0000	45.7	80.00- 120.00	100.00	
12.836	12.836	(1.021)	252	557790			12.97- 72.97	42.97	
12.836	12.836	(1.021)	253	486228			7.46- 67.46	37.46	

132 Dibenz(a,j)acridine					CAS #: 224-42-0				
13.410	13.410	(1.066)	279	1906467	45.0000	46.6	80.00- 120.00	100.00	
13.410	13.410	(1.066)	280	462560			0.00- 54.26	24.26	
13.410	13.410	(1.066)	277	293752			0.00- 45.41	15.41	

QC Flag Legend

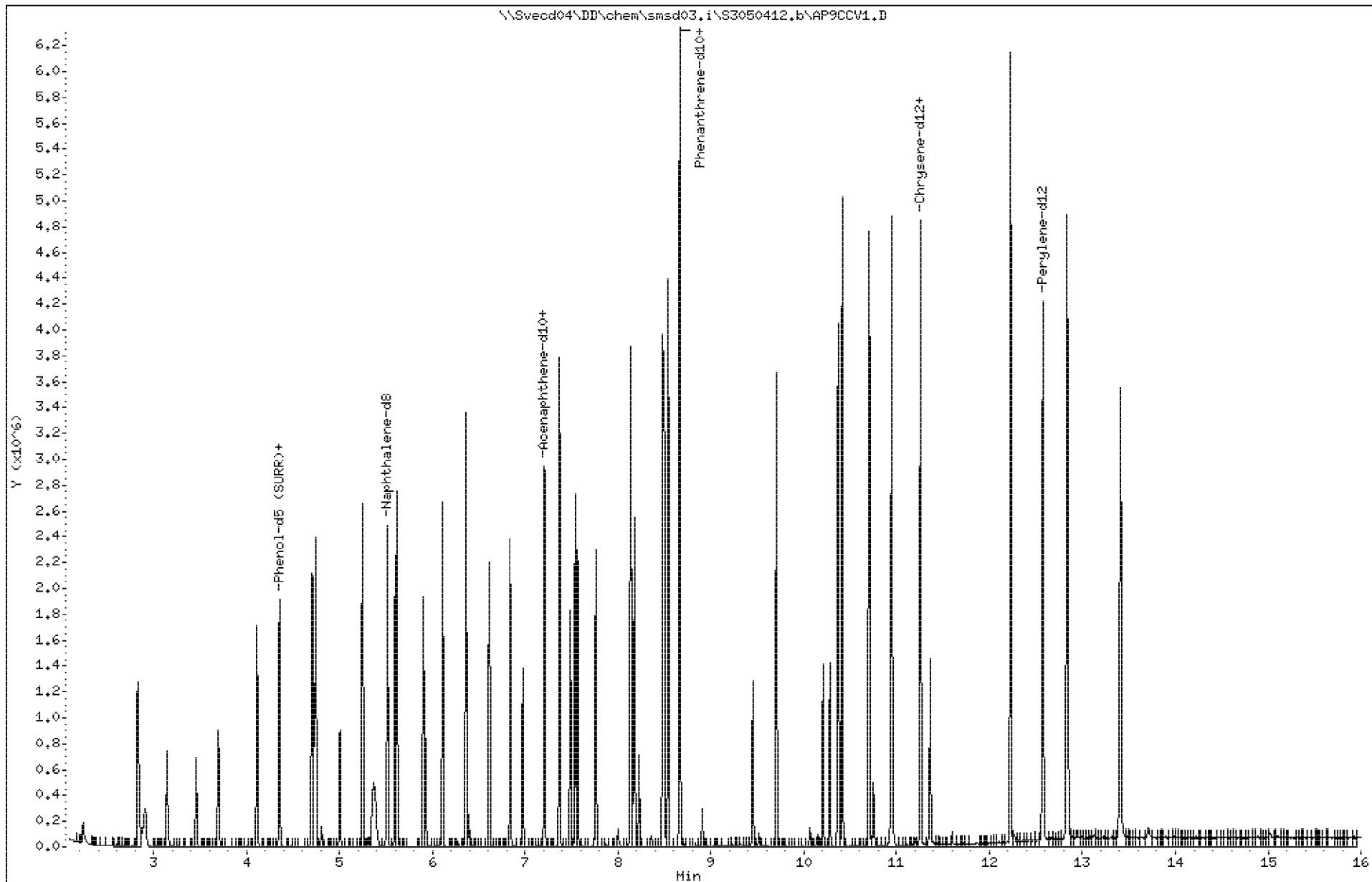
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Date : 04-MAY-2012 09:00
Client ID: AP9CCV1
Sample Info: 45958
Purge Volume: 1000.0
Column phase: HPMS-5

Instrument: smsd03.i

Operator: PEL

Column diameter: 0.25



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

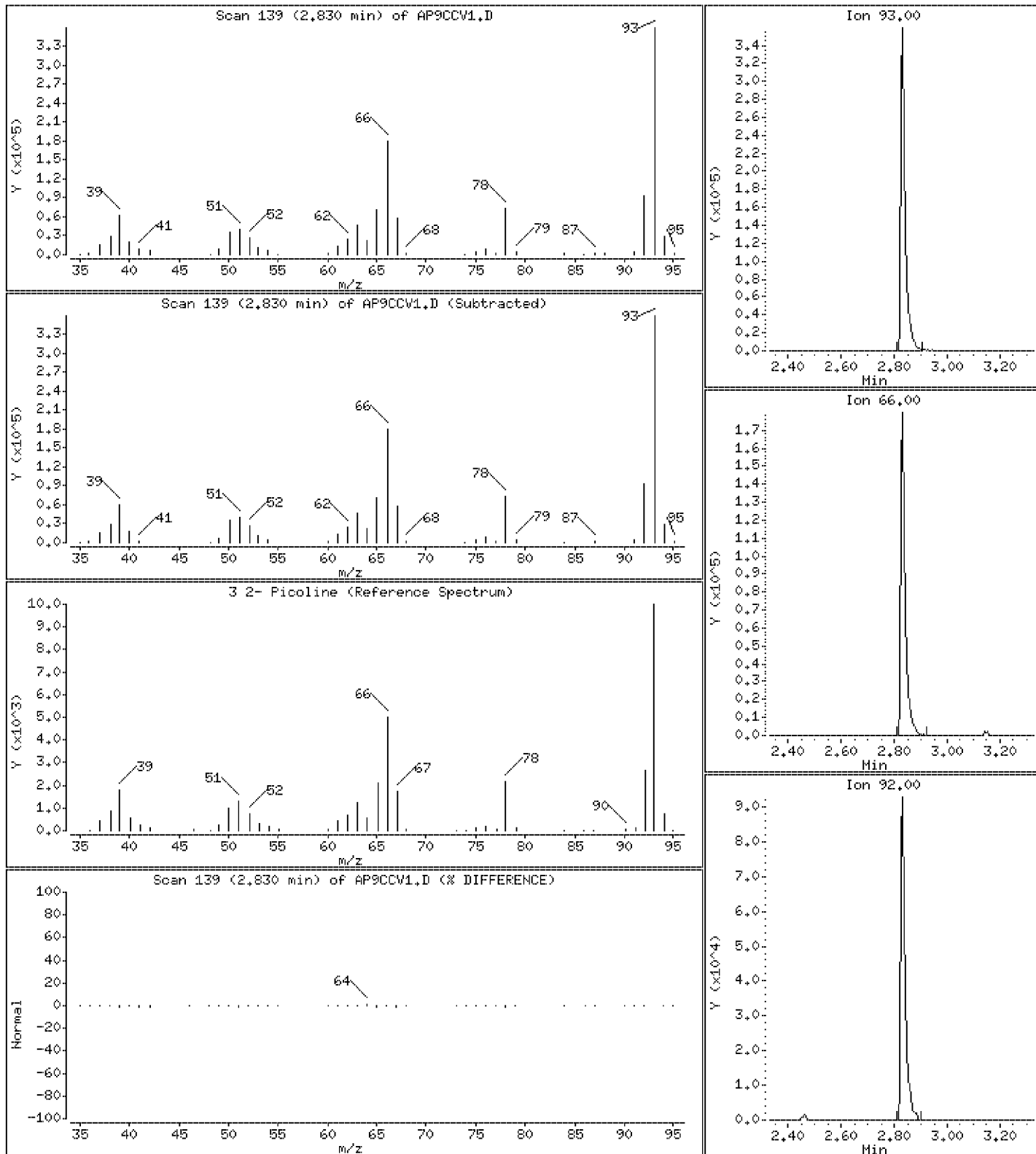
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

3 2- Picoline

Concentration: 43.2 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

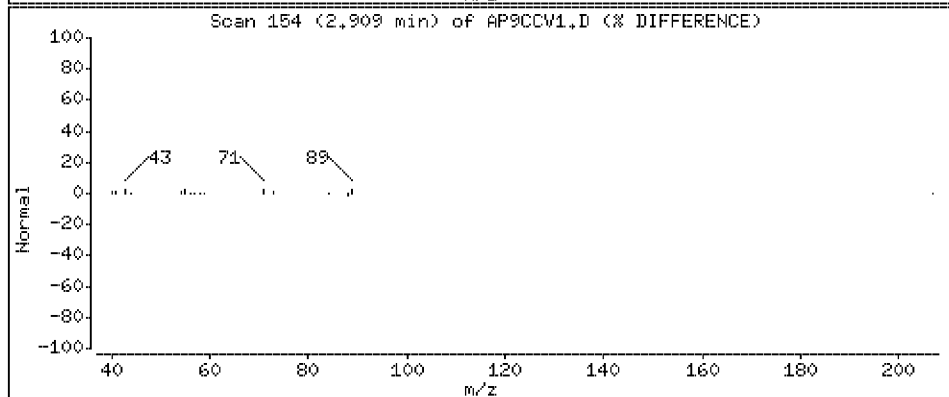
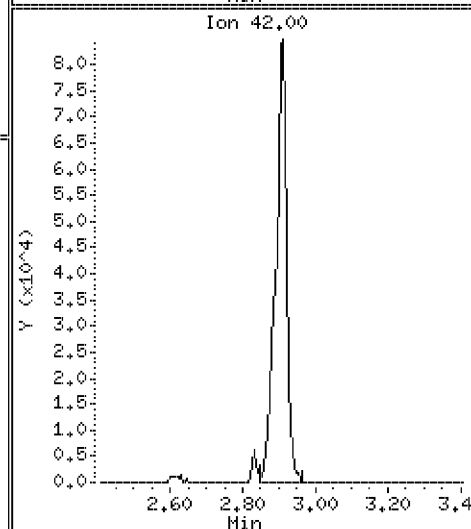
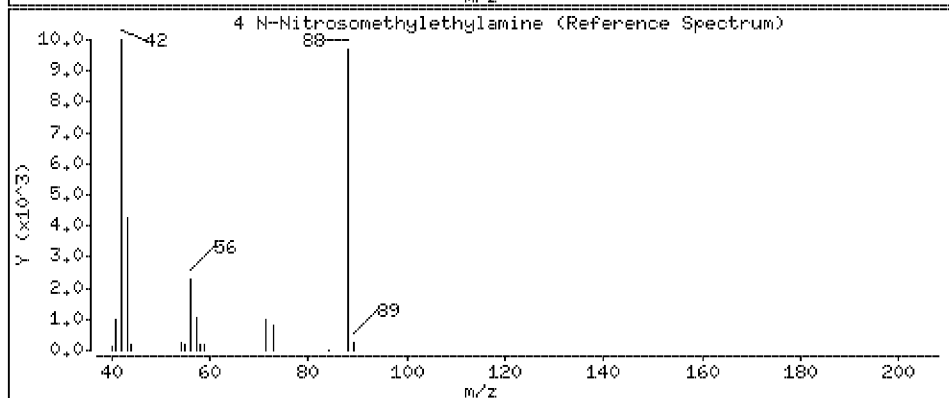
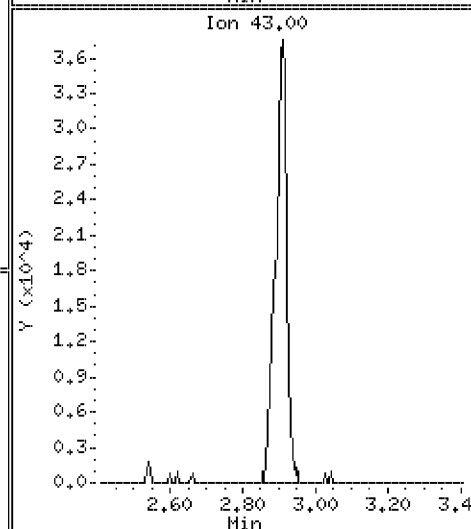
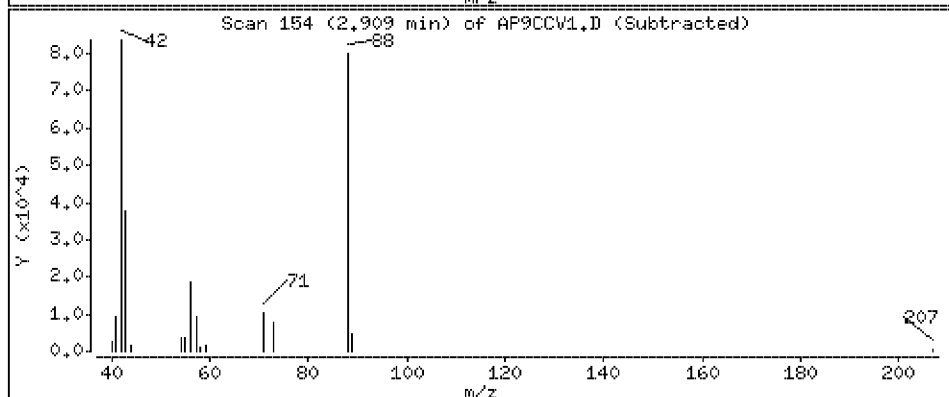
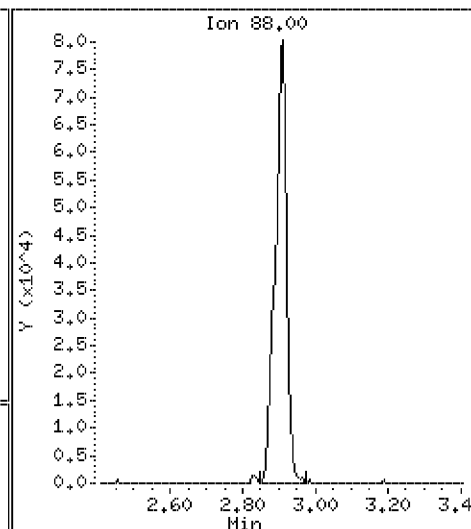
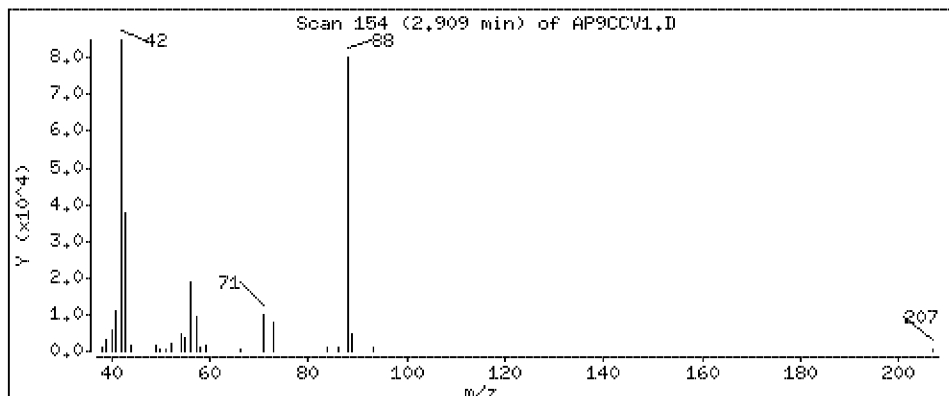
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

4 N-Nitrosomethylethylamine

Concentration: 44.0 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

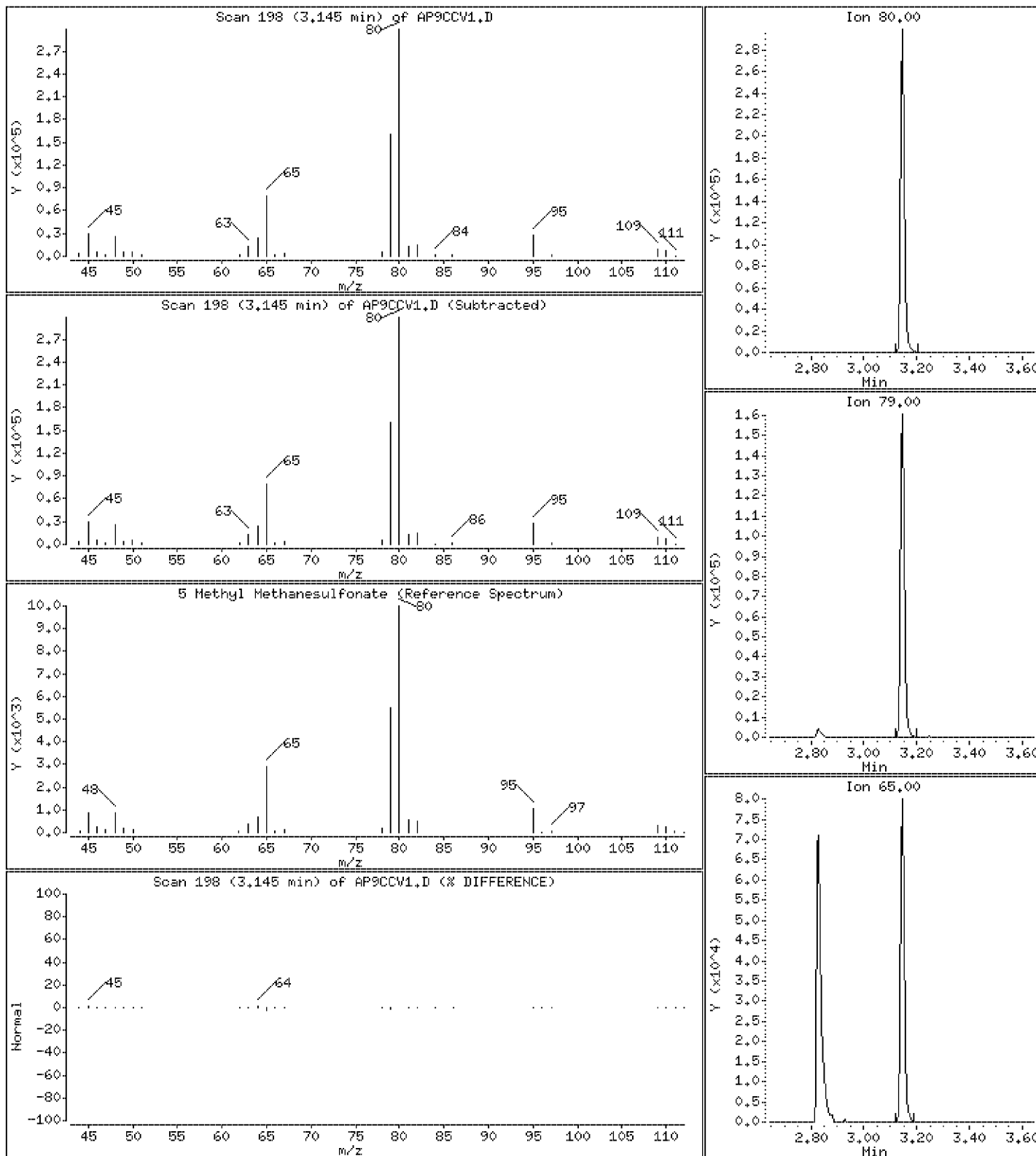
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

5 Methyl Methanesulfonate

Concentration: 44.4 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

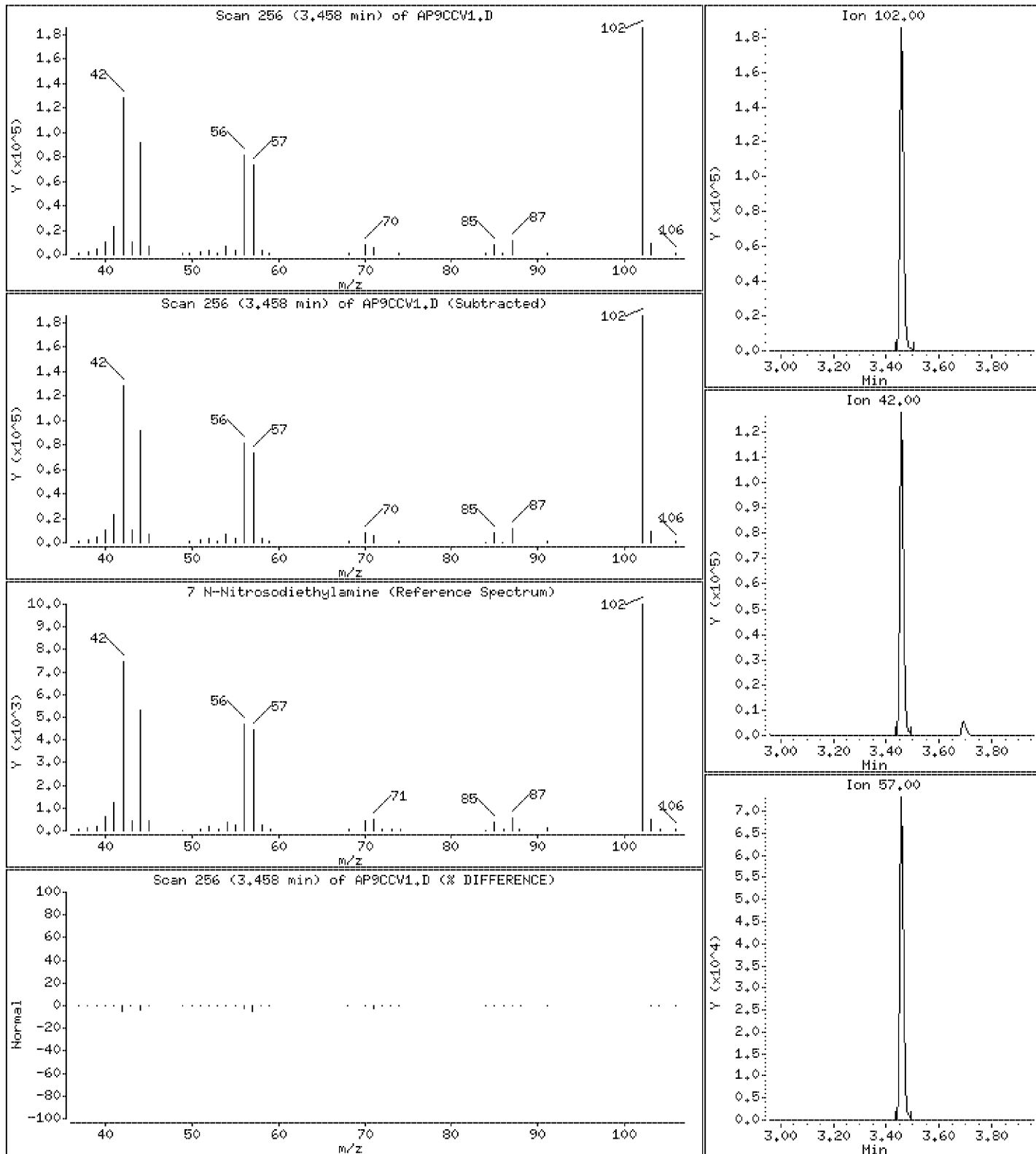
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

7 N-Nitrosodiethylamine

Concentration: 44.4 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

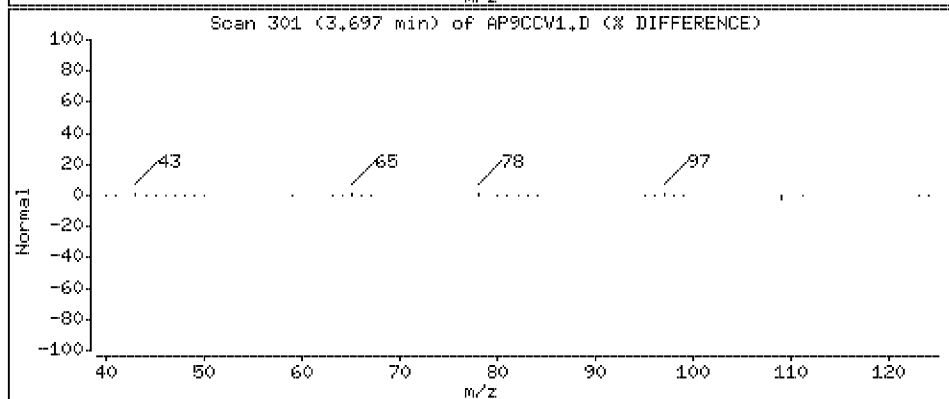
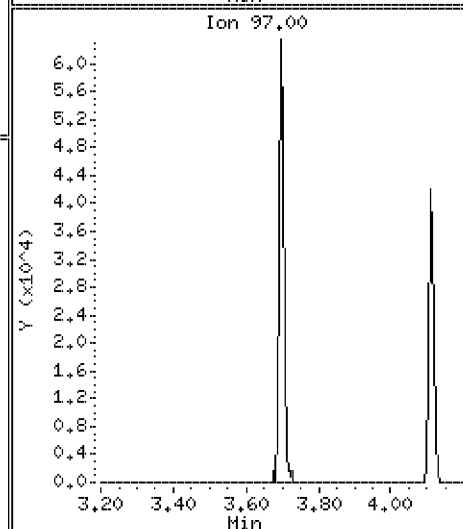
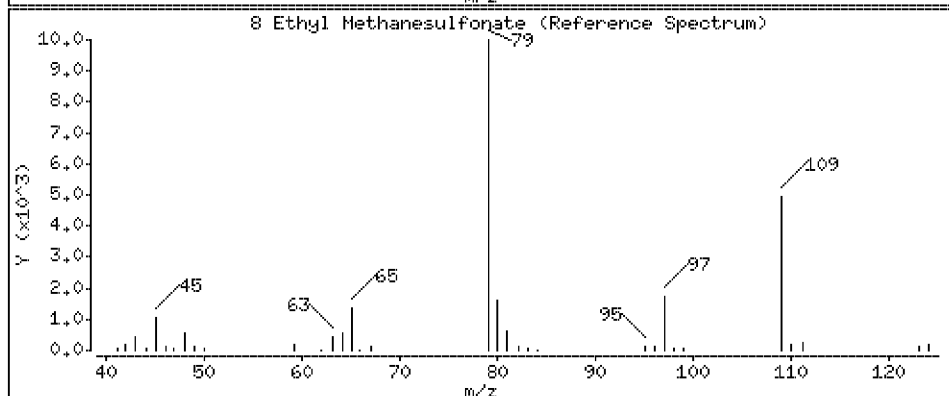
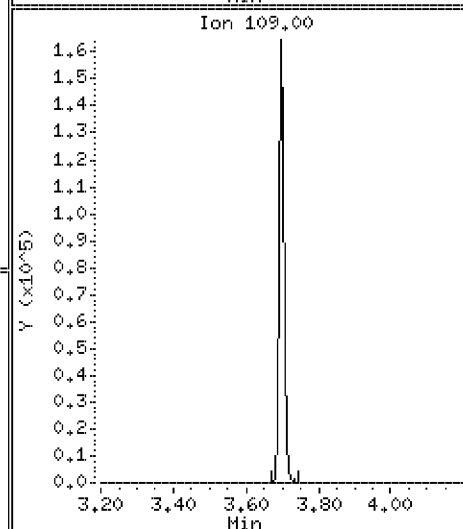
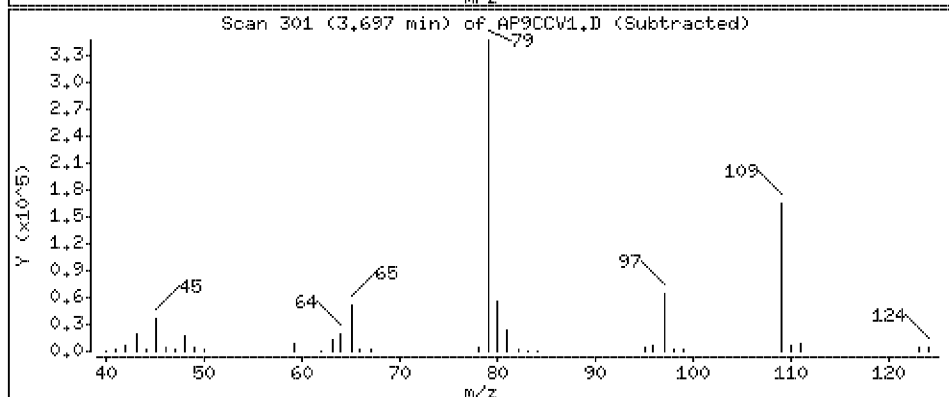
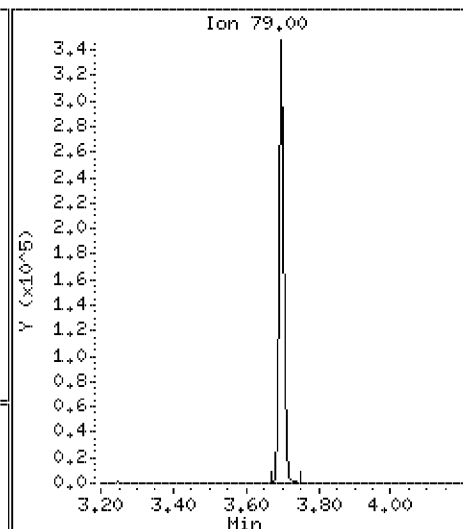
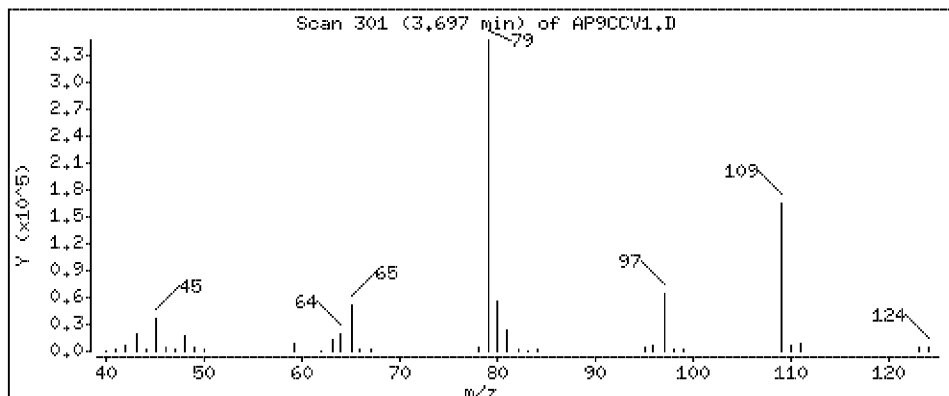
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

8 Ethyl Methanesulfonate

Concentration: 43.9 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

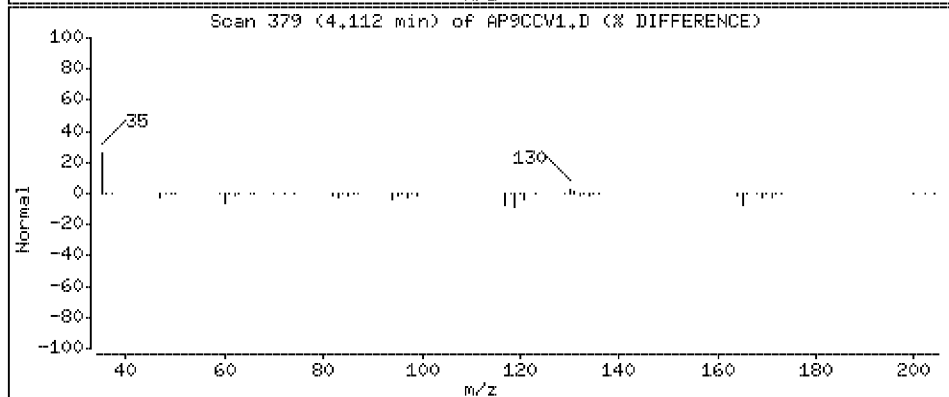
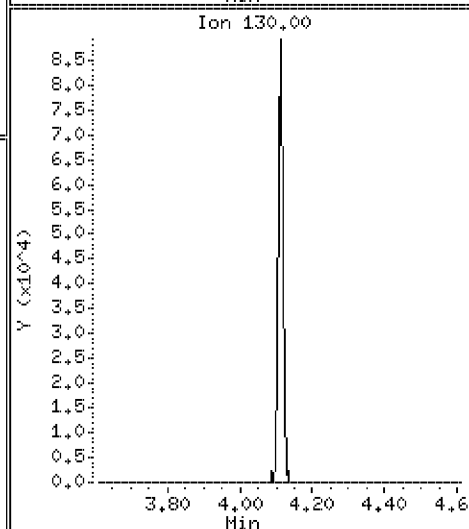
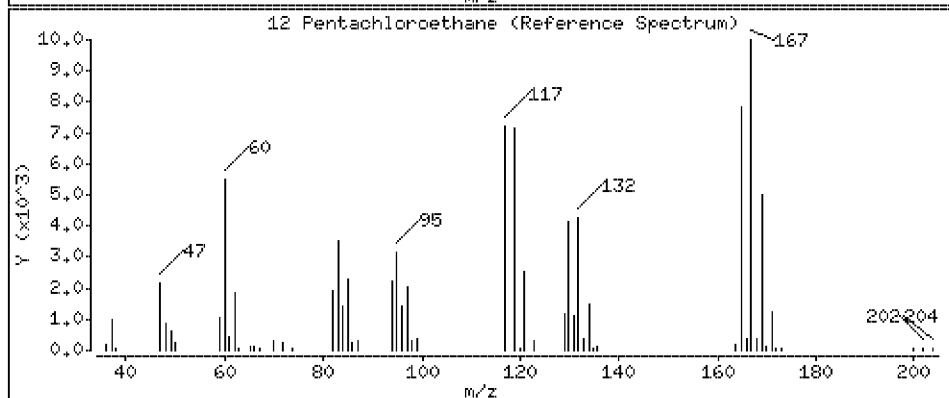
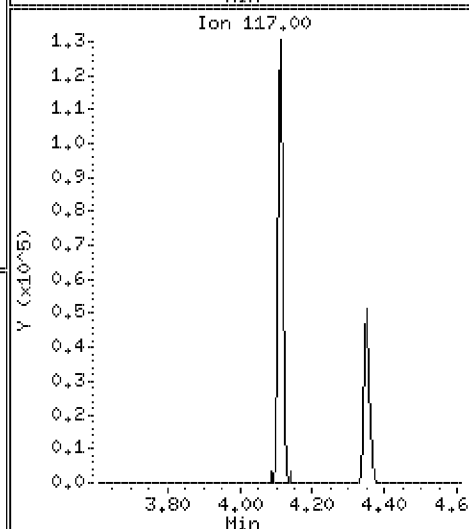
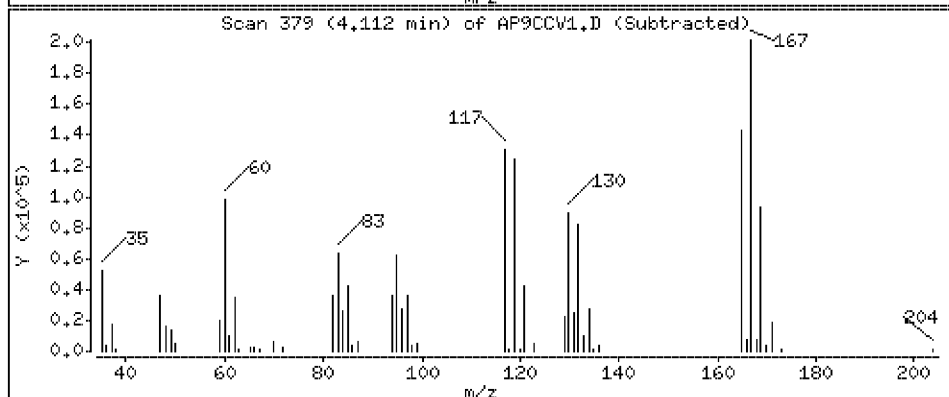
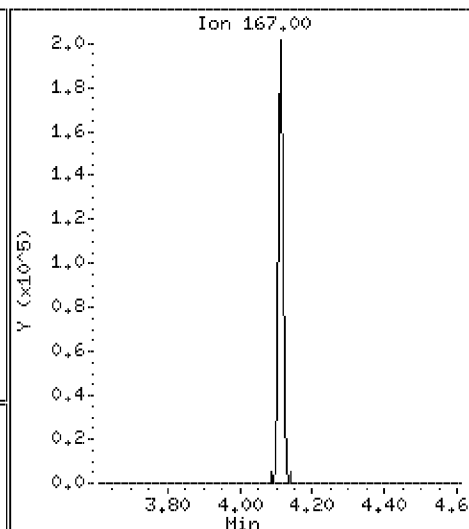
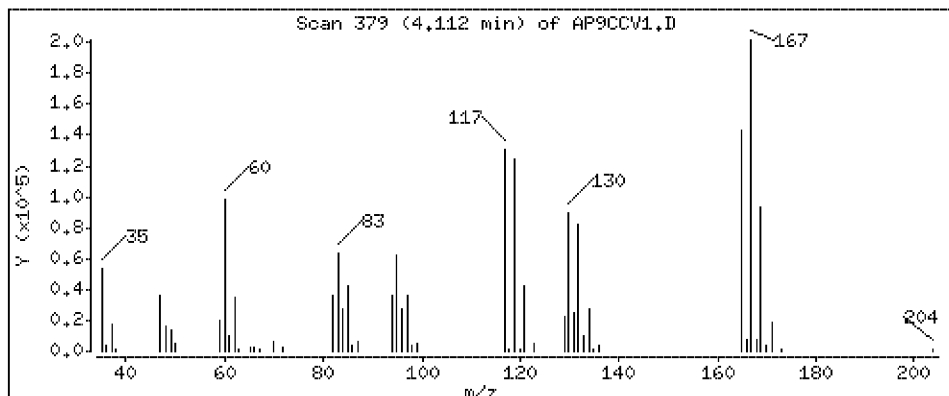
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

12 Pentachloroethane

Concentration: 46.3 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

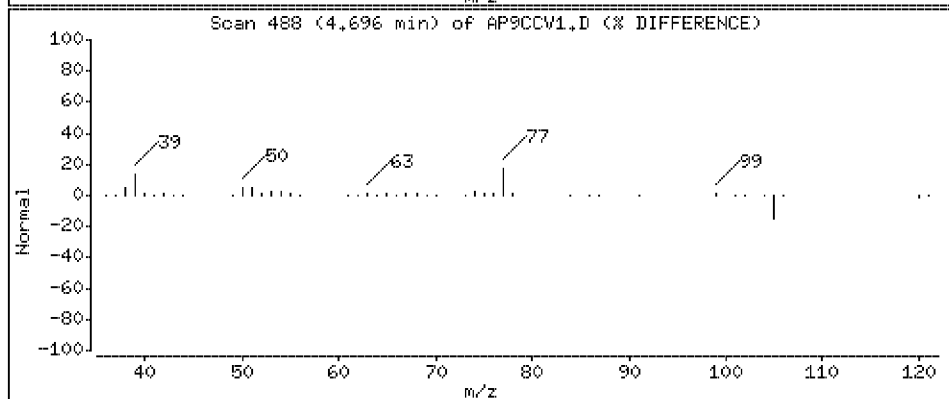
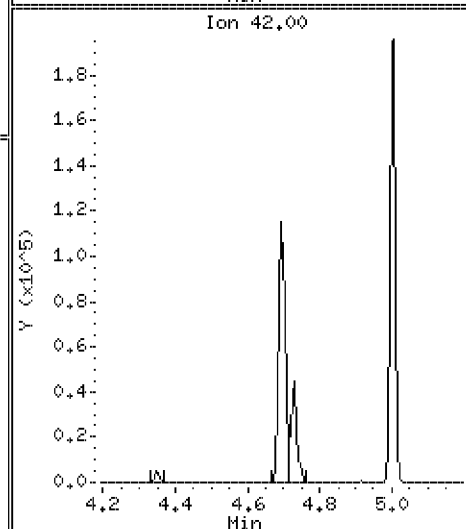
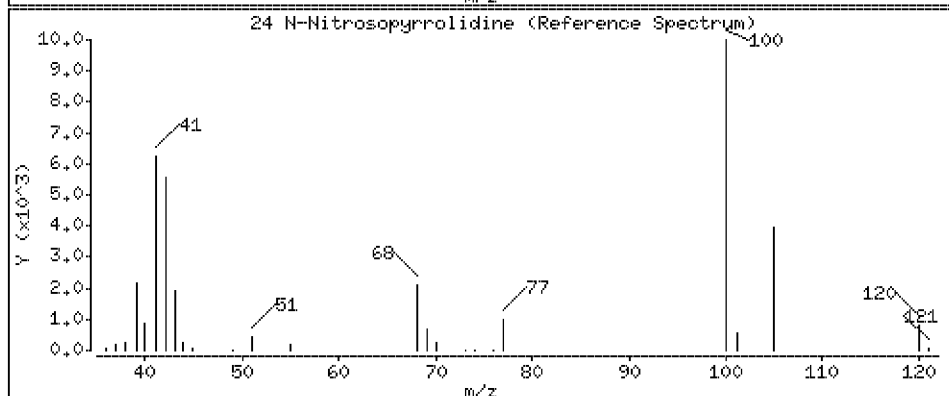
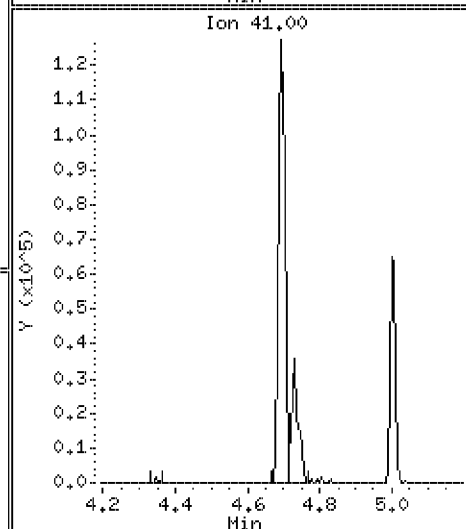
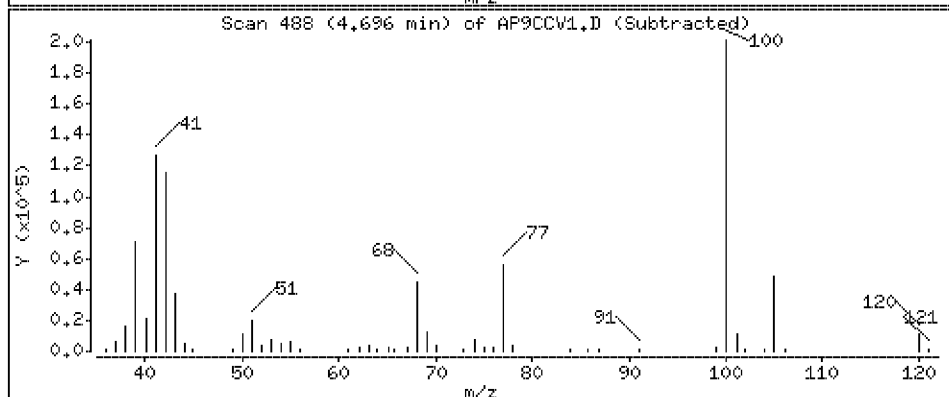
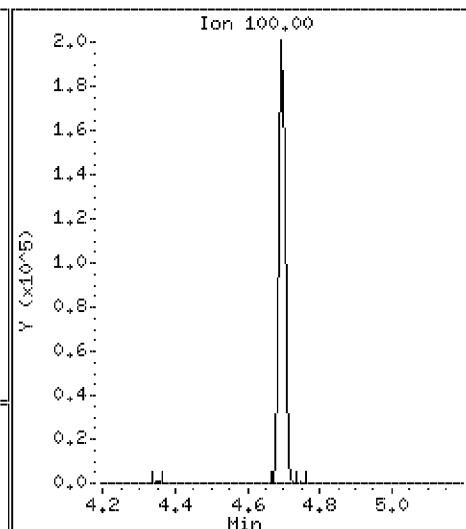
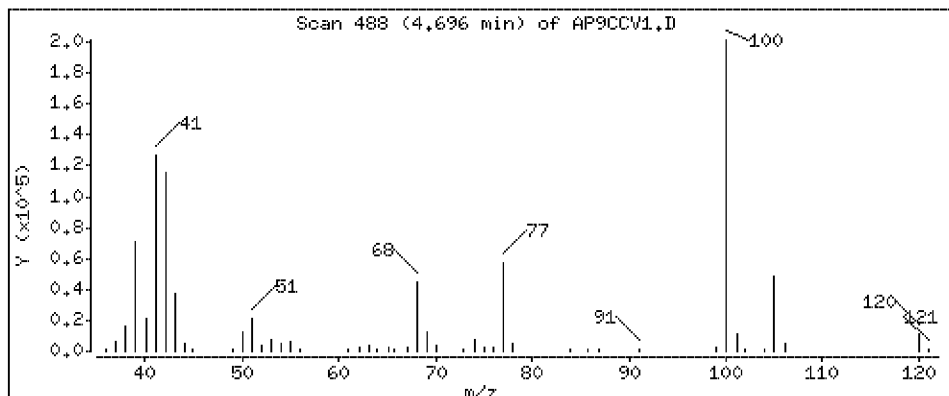
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

24 N-Nitrosopyrrolidine

Concentration: 46.6 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

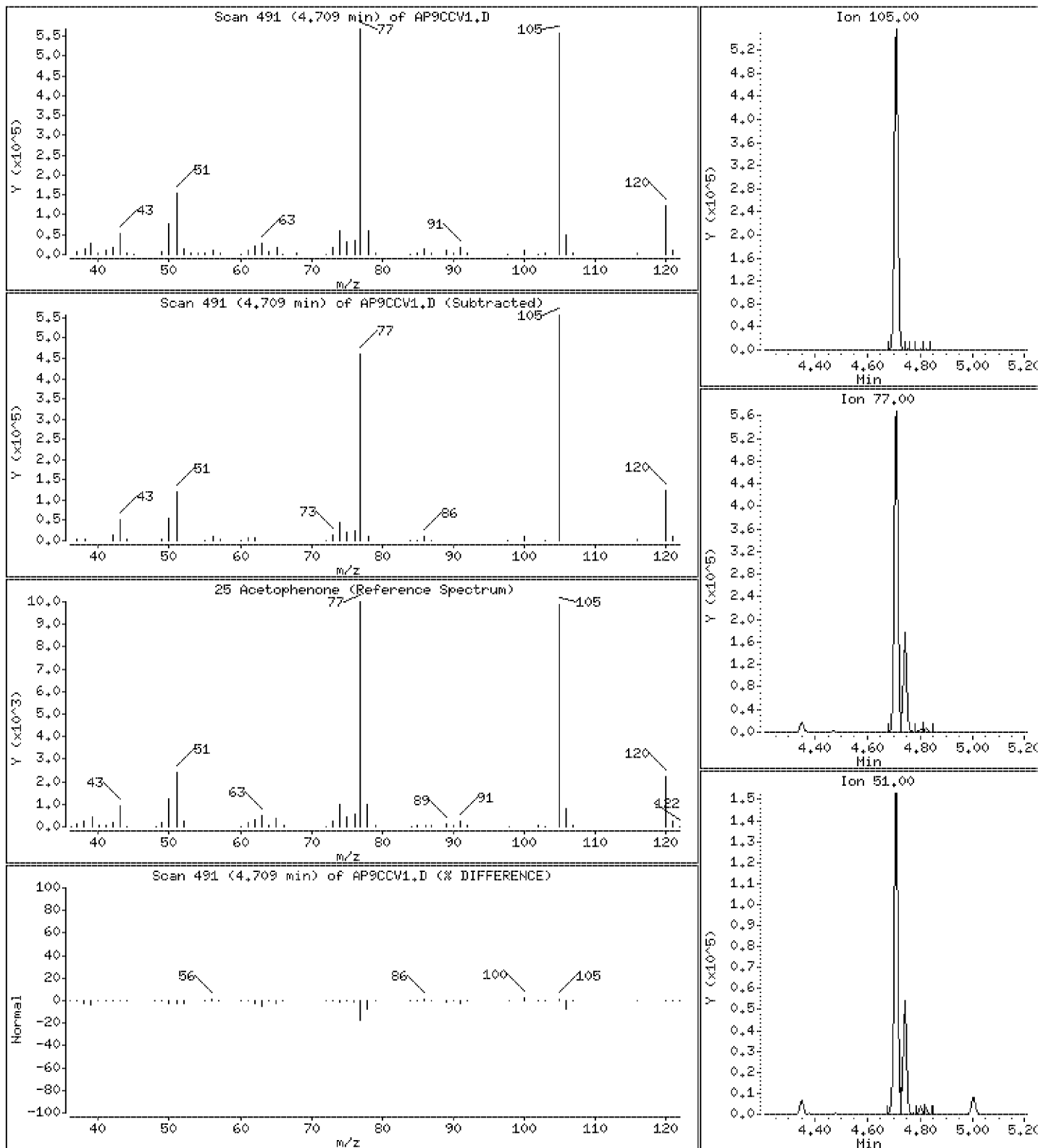
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

25 Acetophenone

Concentration: 42.8 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

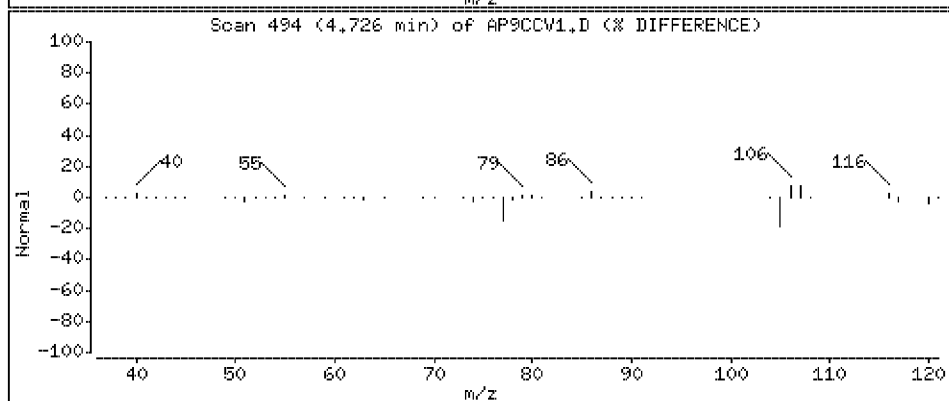
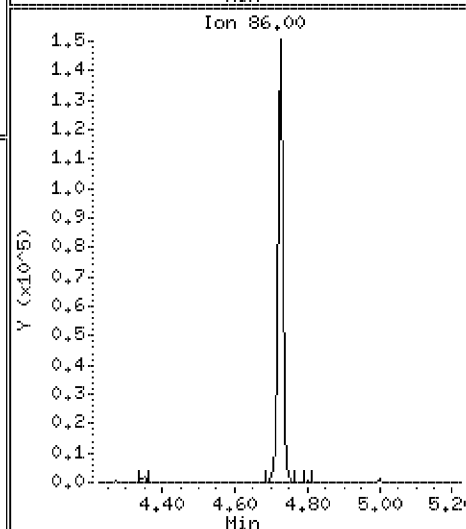
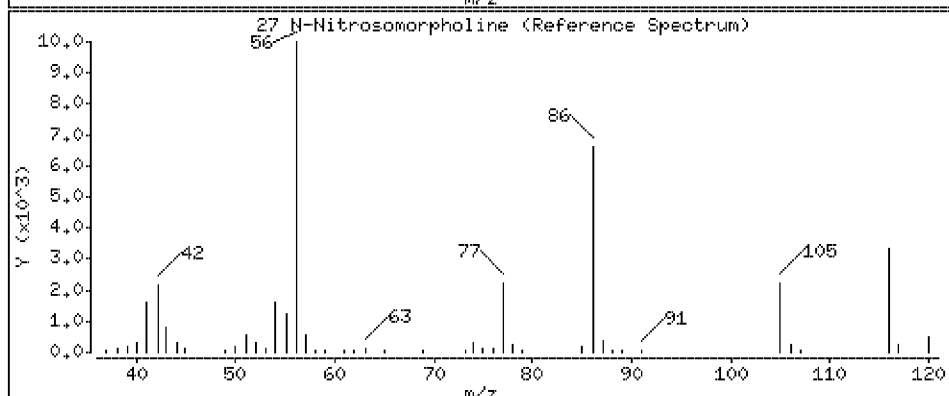
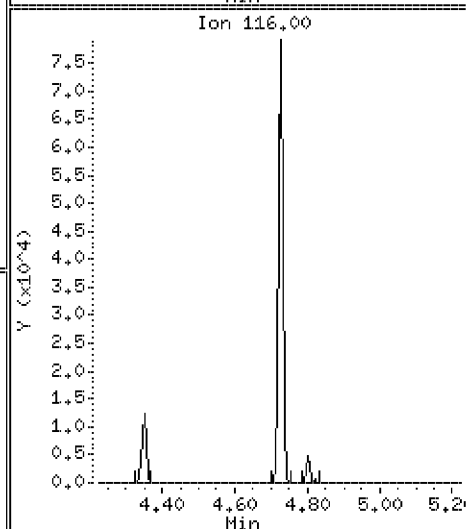
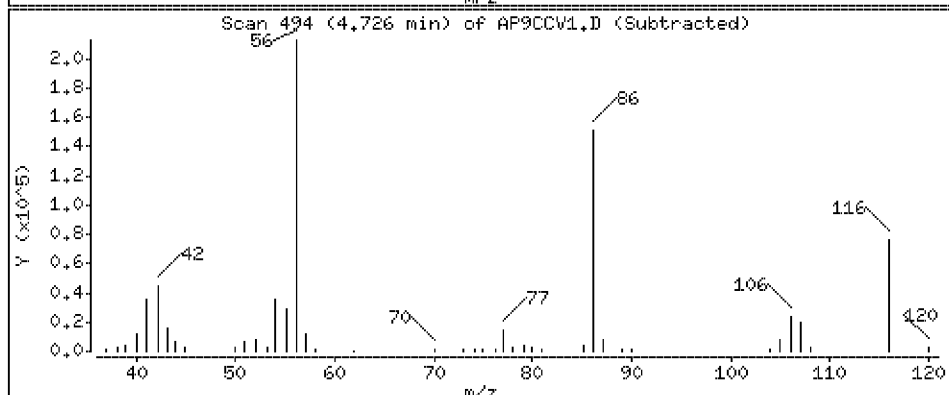
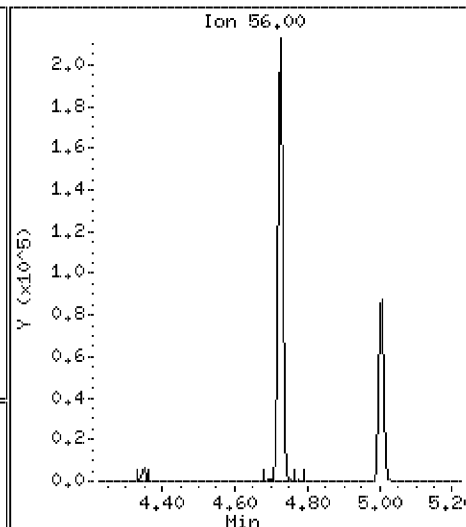
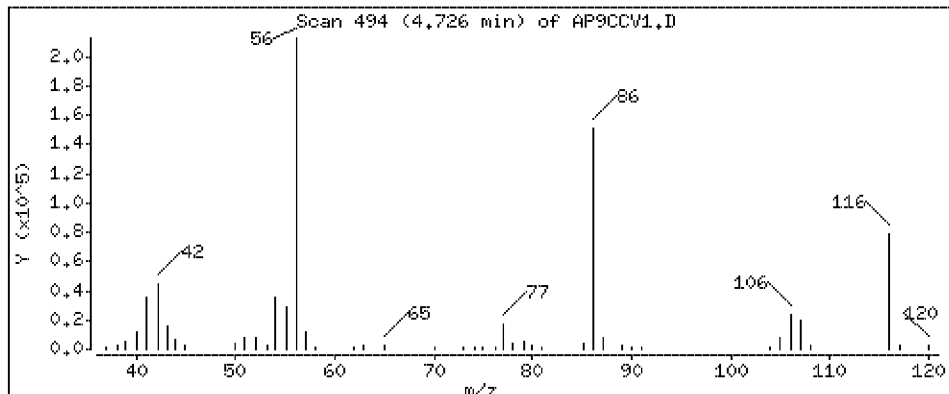
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

27 N-Nitrosomorpholine

Concentration: 45.6 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

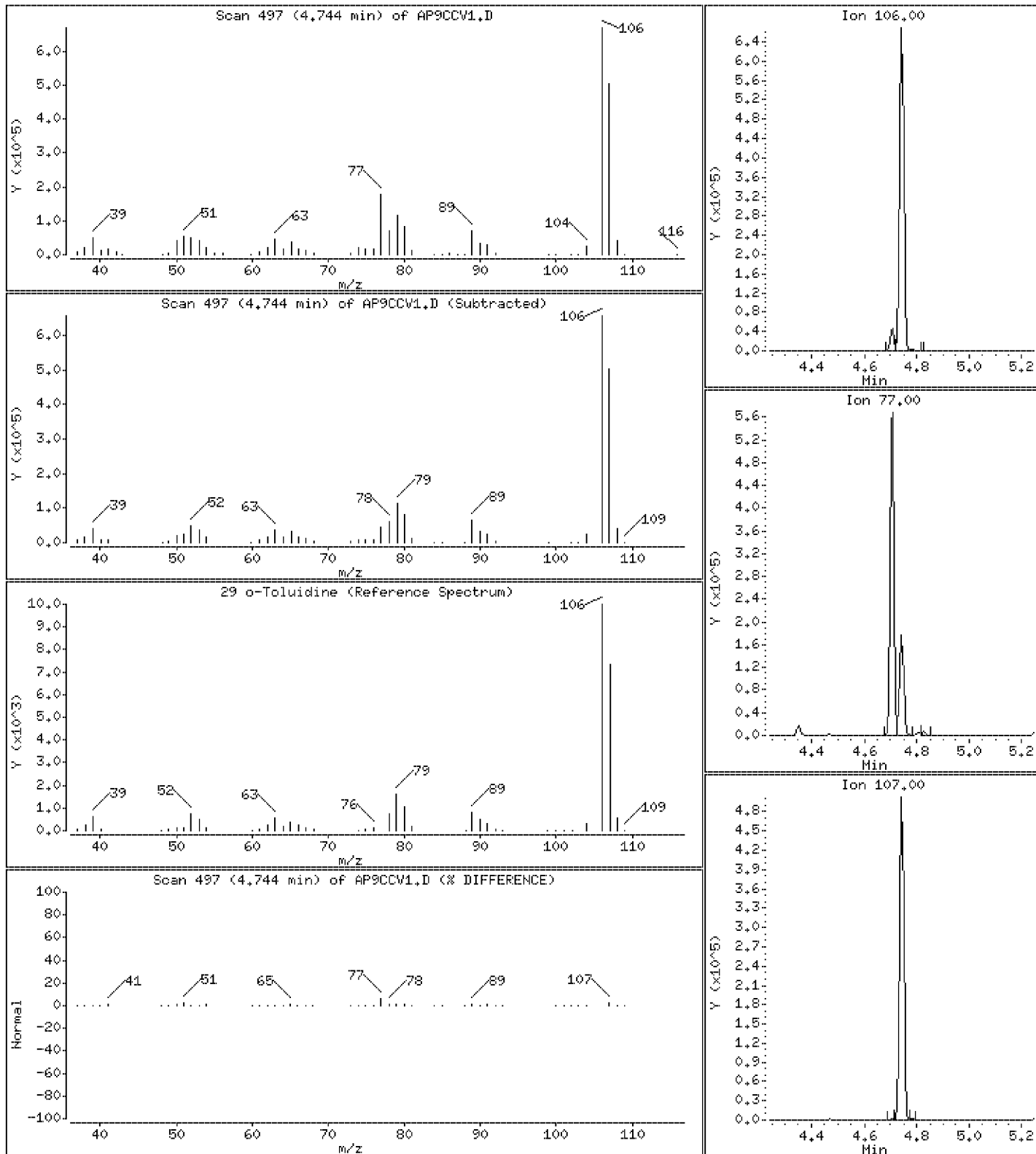
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

29 o-Toluidine

Concentration: 43.9 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

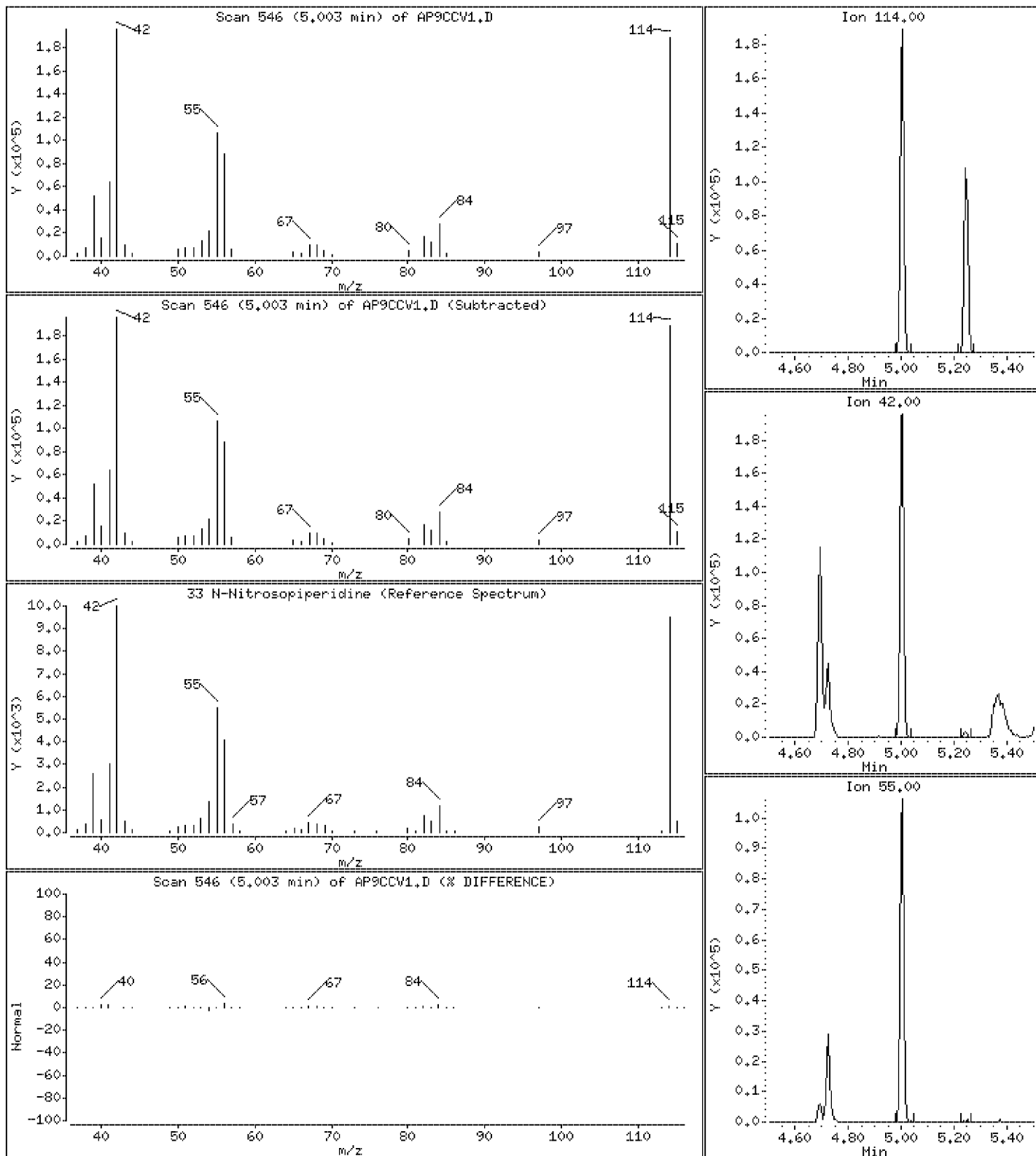
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

33 N-Nitrosopiperidine

Concentration: 46.5 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

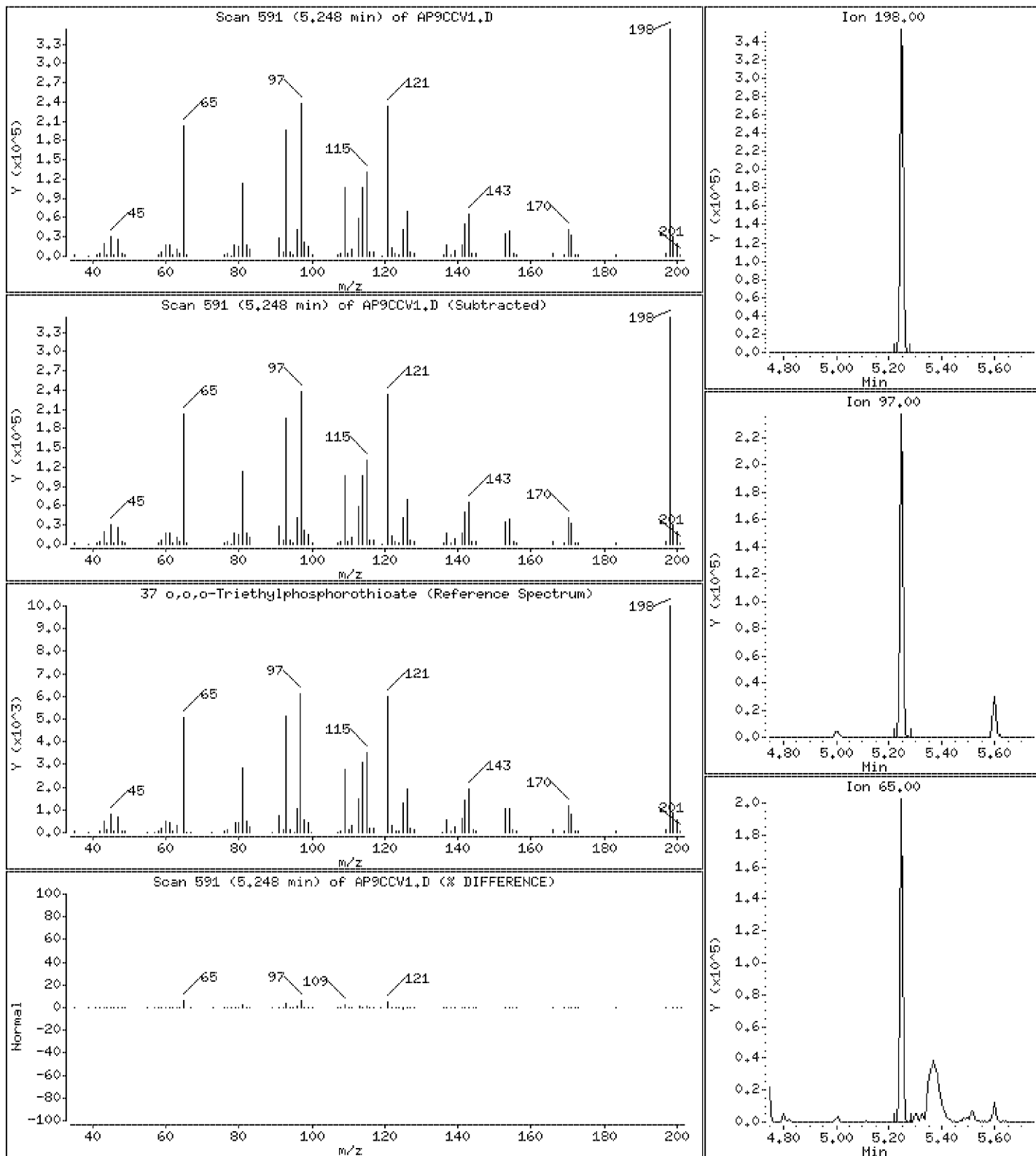
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

37 o,o,o-Triethylphosphorothioate

Concentration: 47.2 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

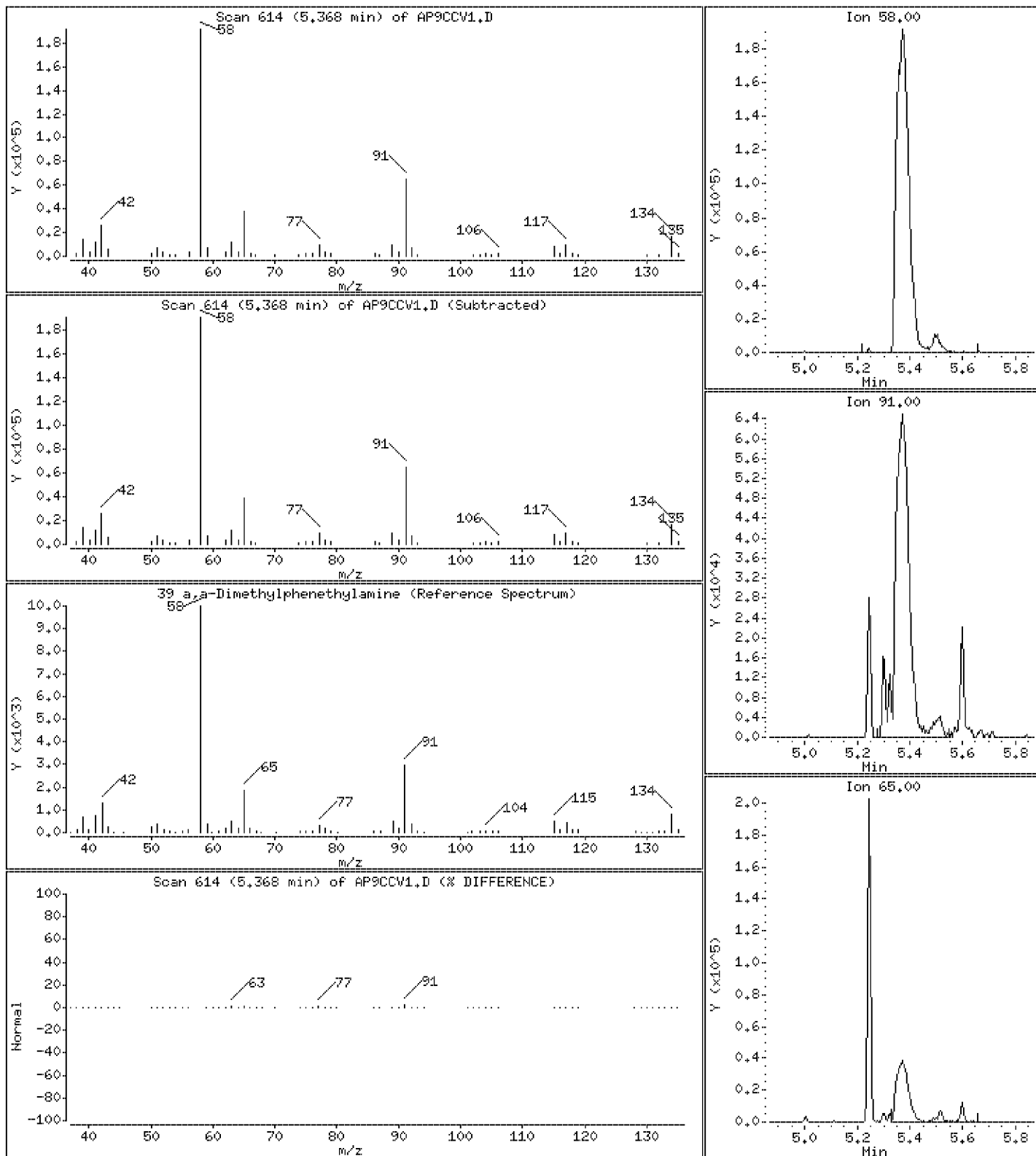
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

39 a,a-Dimethylphenethylamine

Concentration: 45.6 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

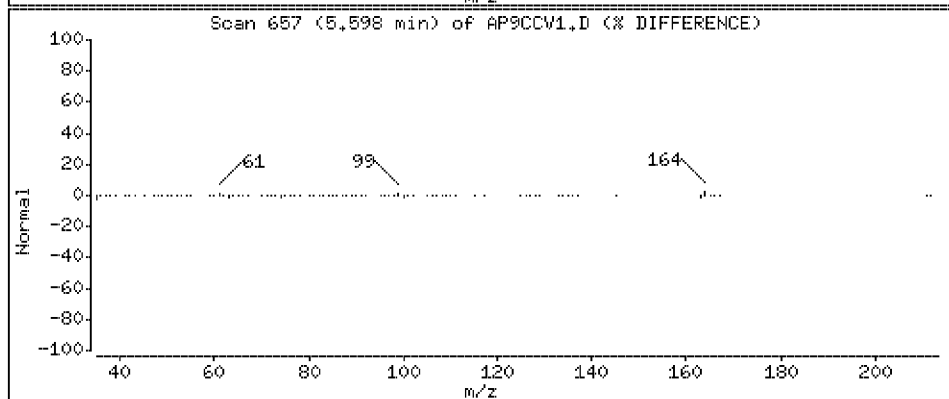
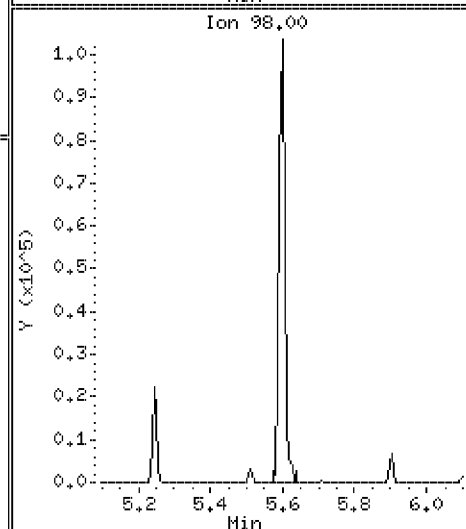
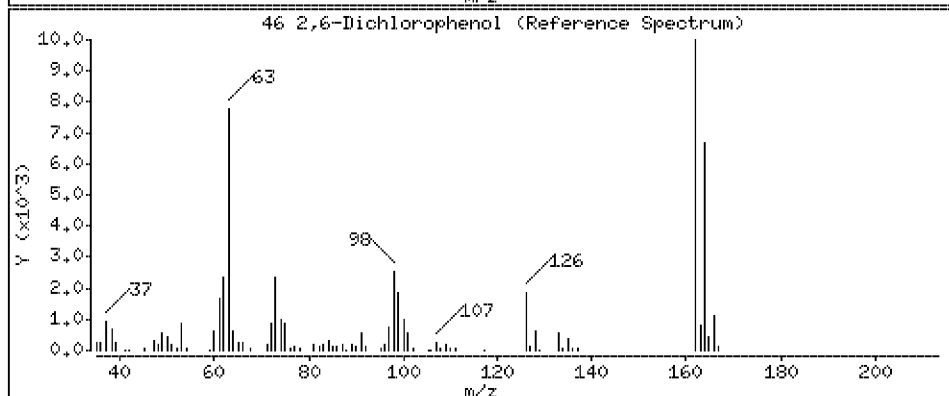
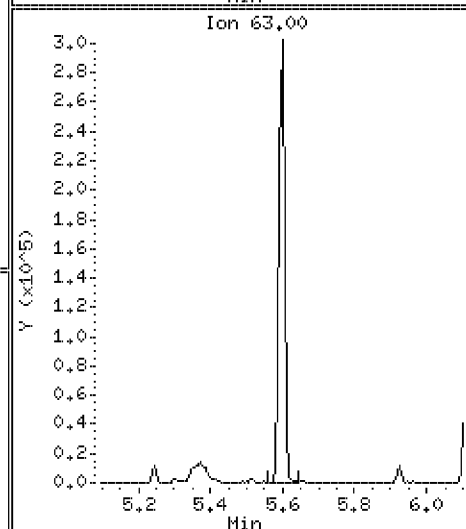
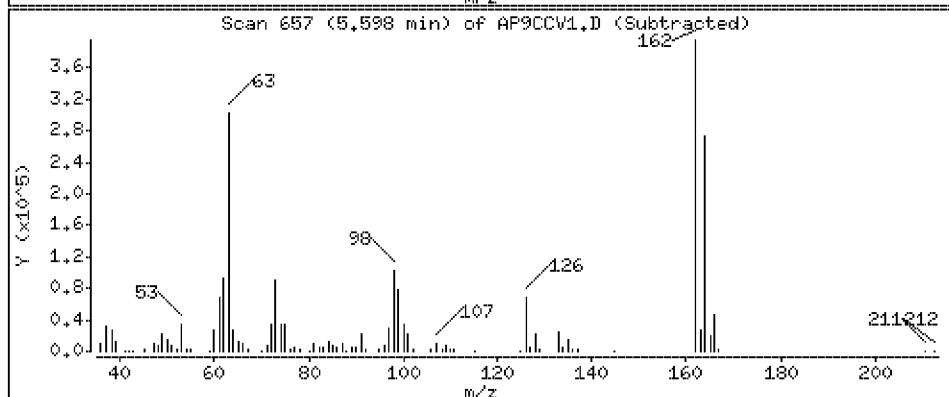
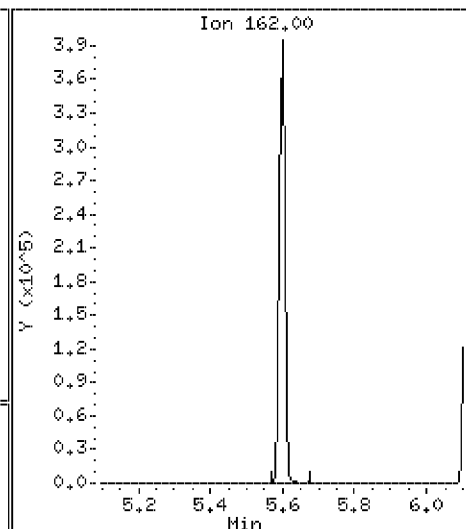
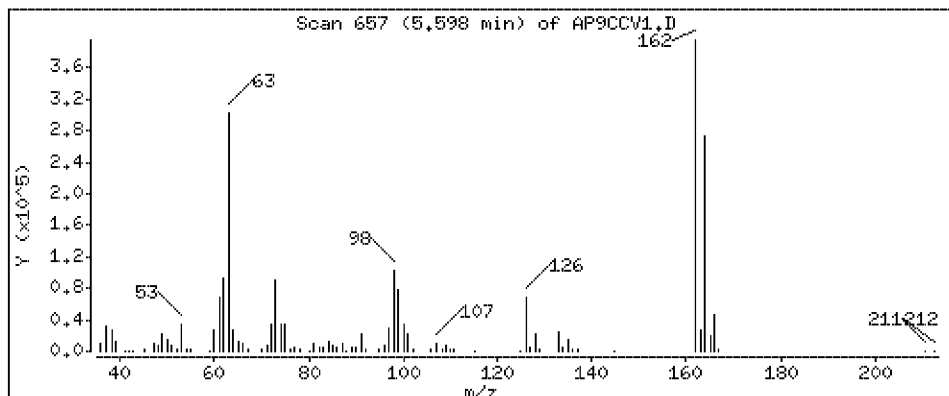
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

46 2,6-Dichlorophenol

Concentration: 47.7 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

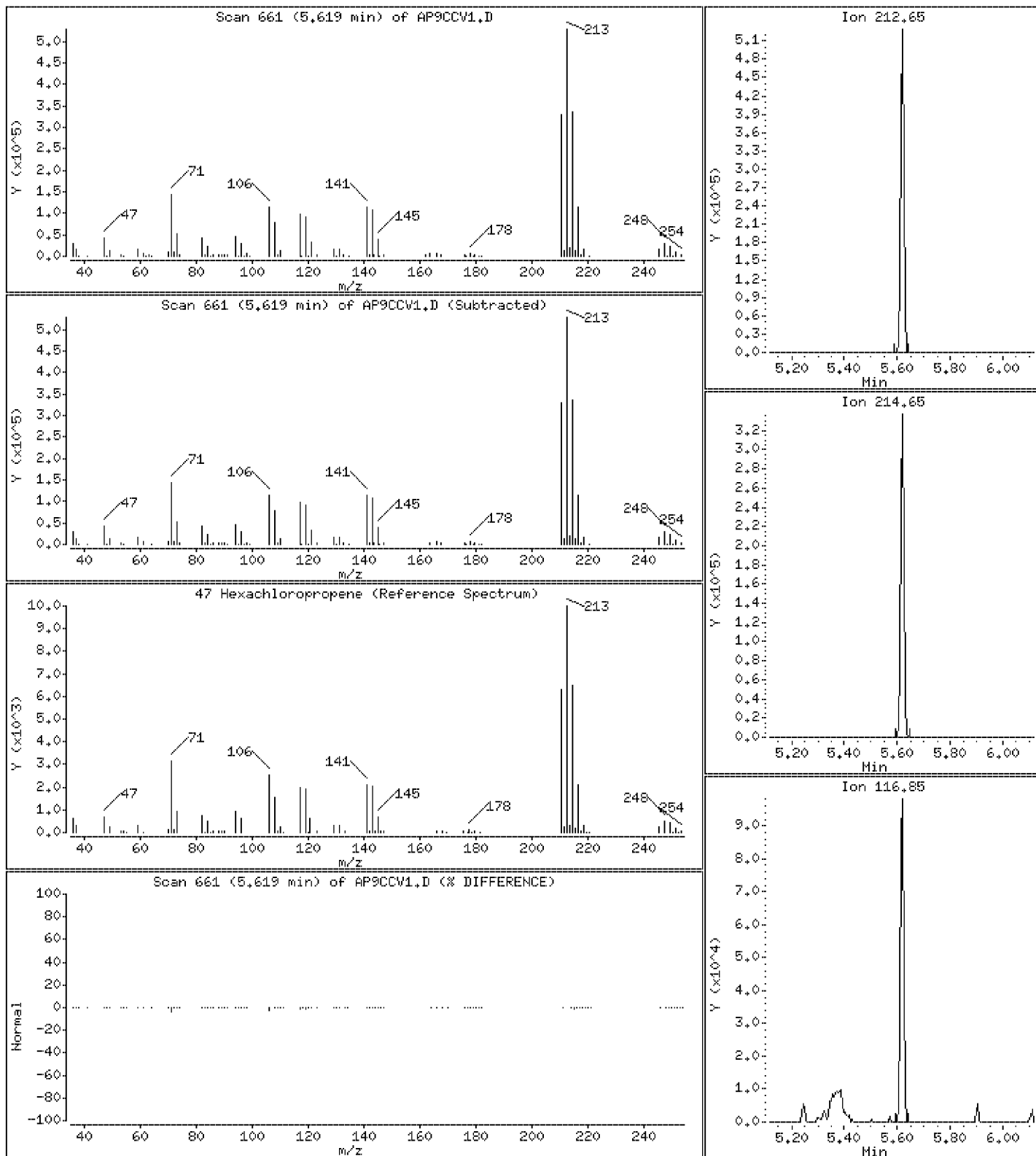
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

47 Hexachloropropene

Concentration: 47.6 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

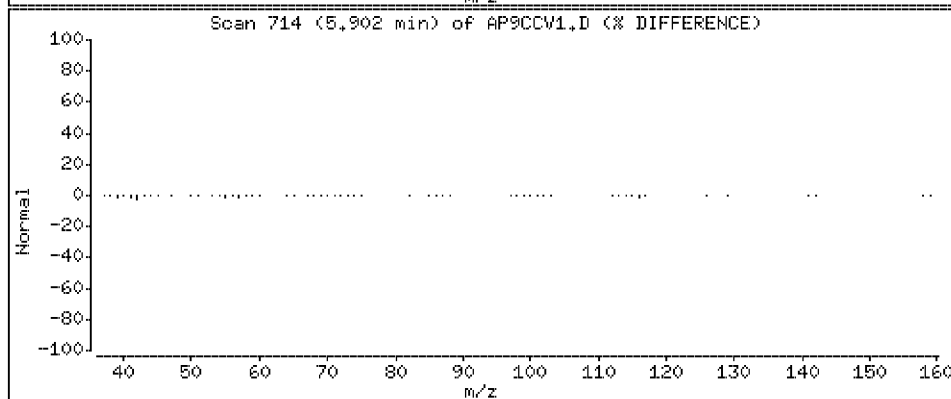
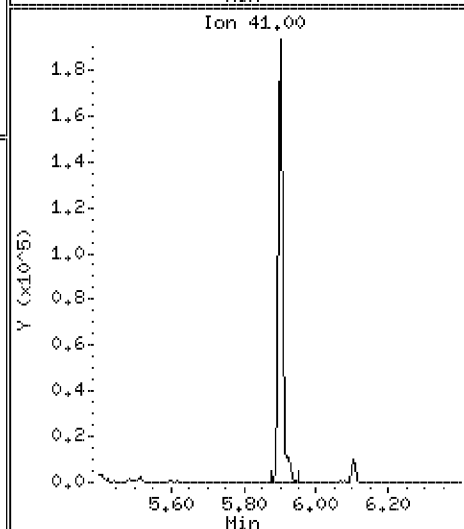
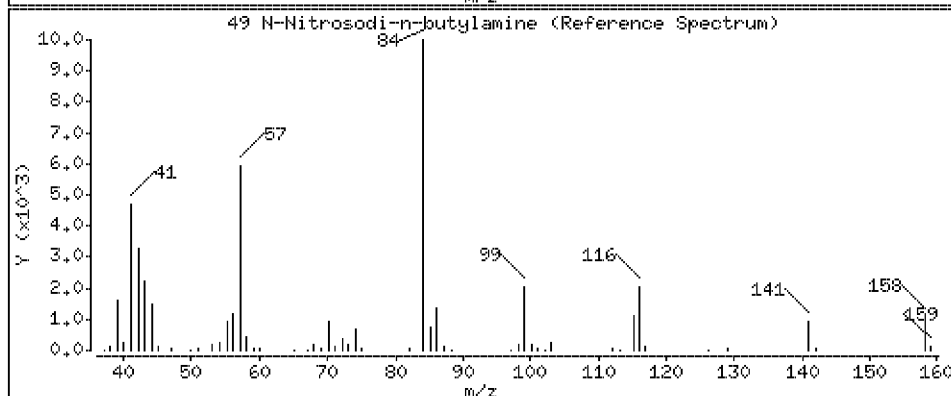
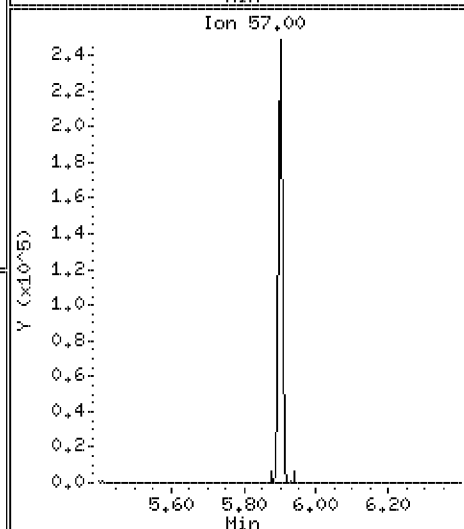
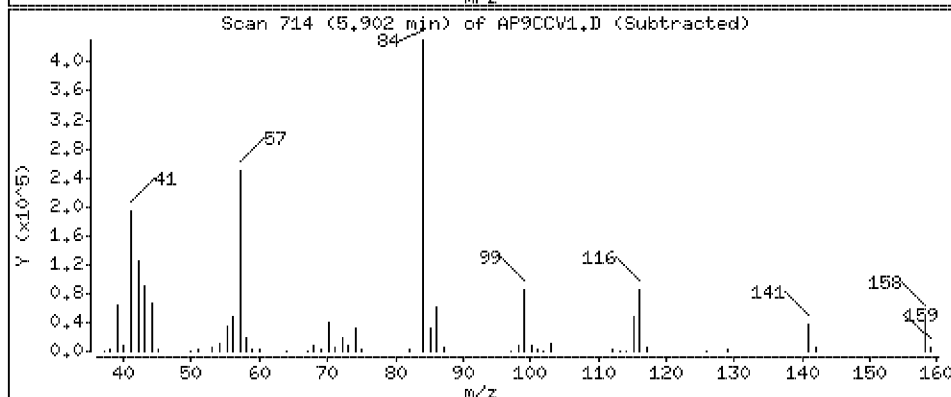
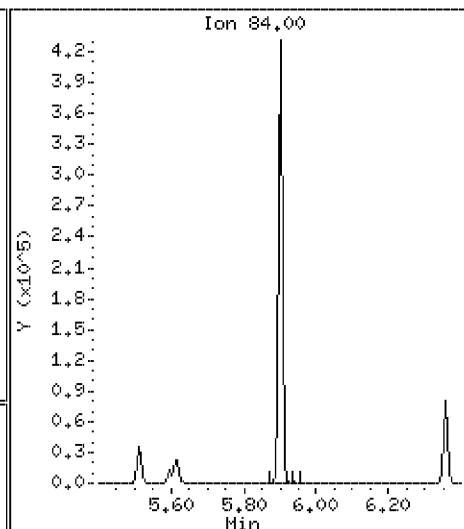
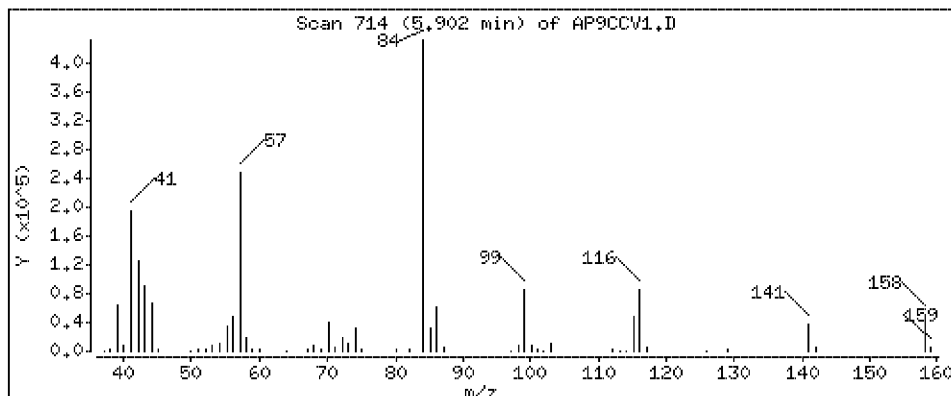
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

49 N-Nitrosodi-n-butylamine

Concentration: 47.0 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

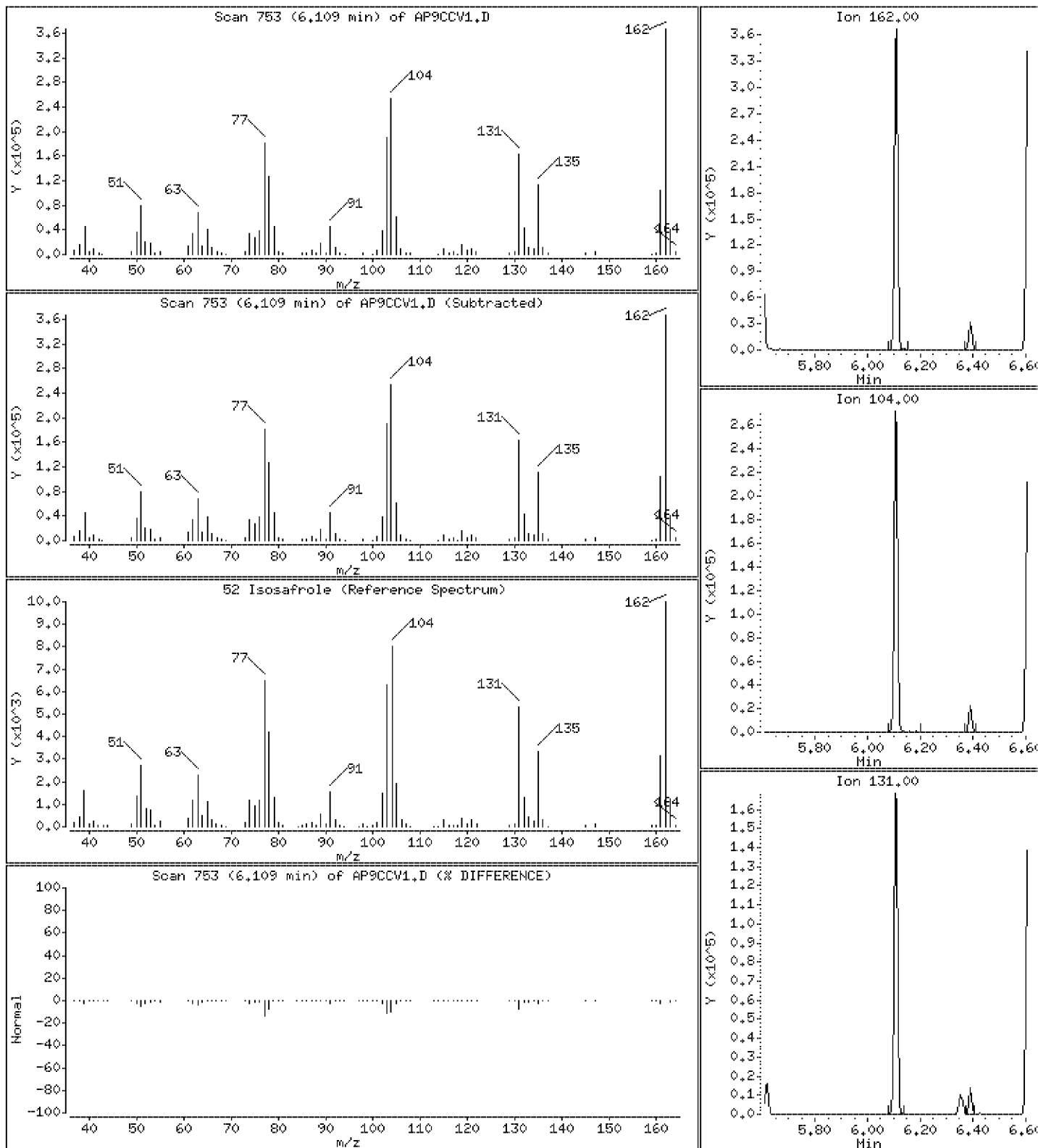
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

52 Isosafrole

Concentration: 46.9 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

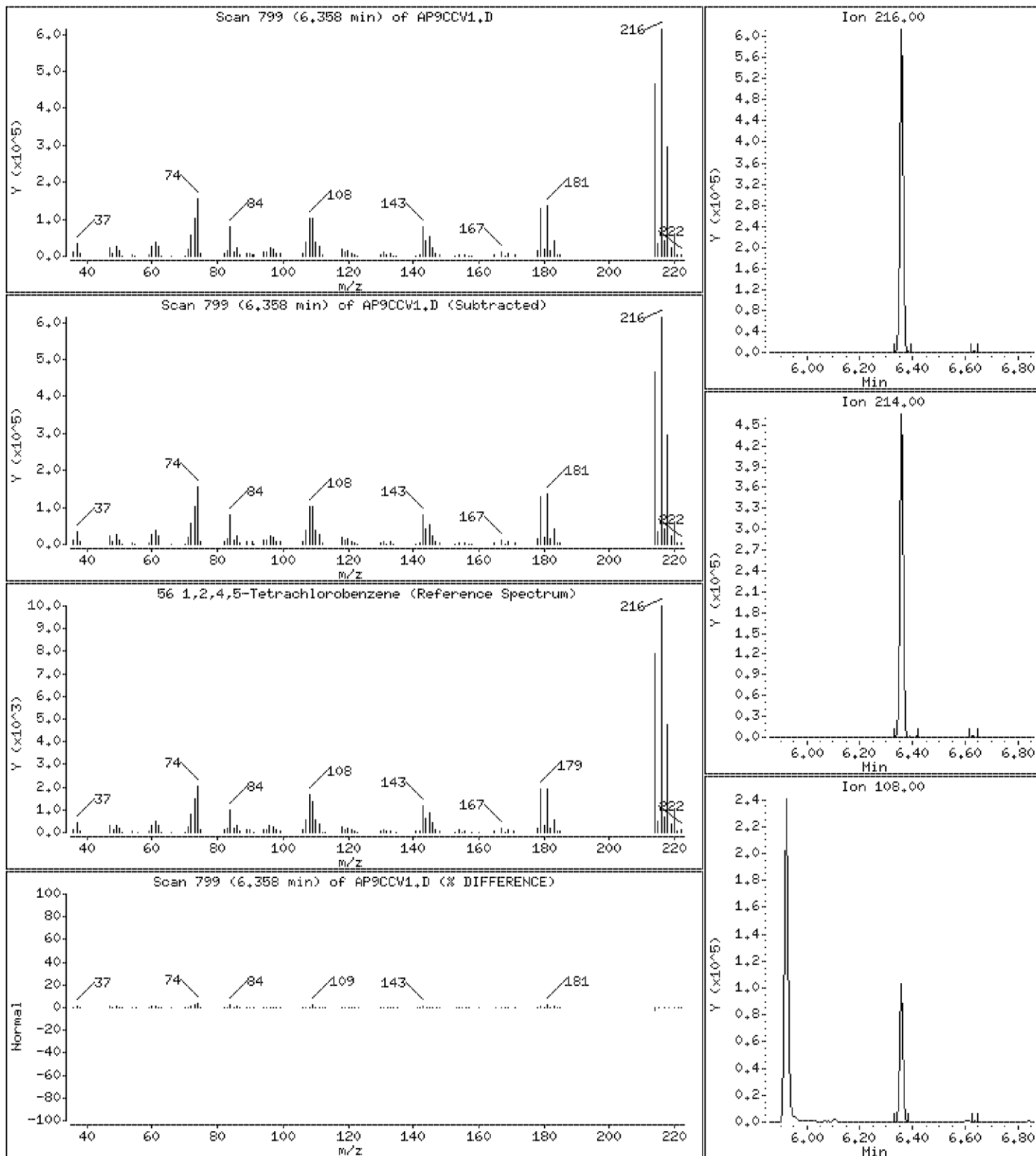
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

56 1,2,4,5-Tetrachlorobenzene

Concentration: 45.4 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

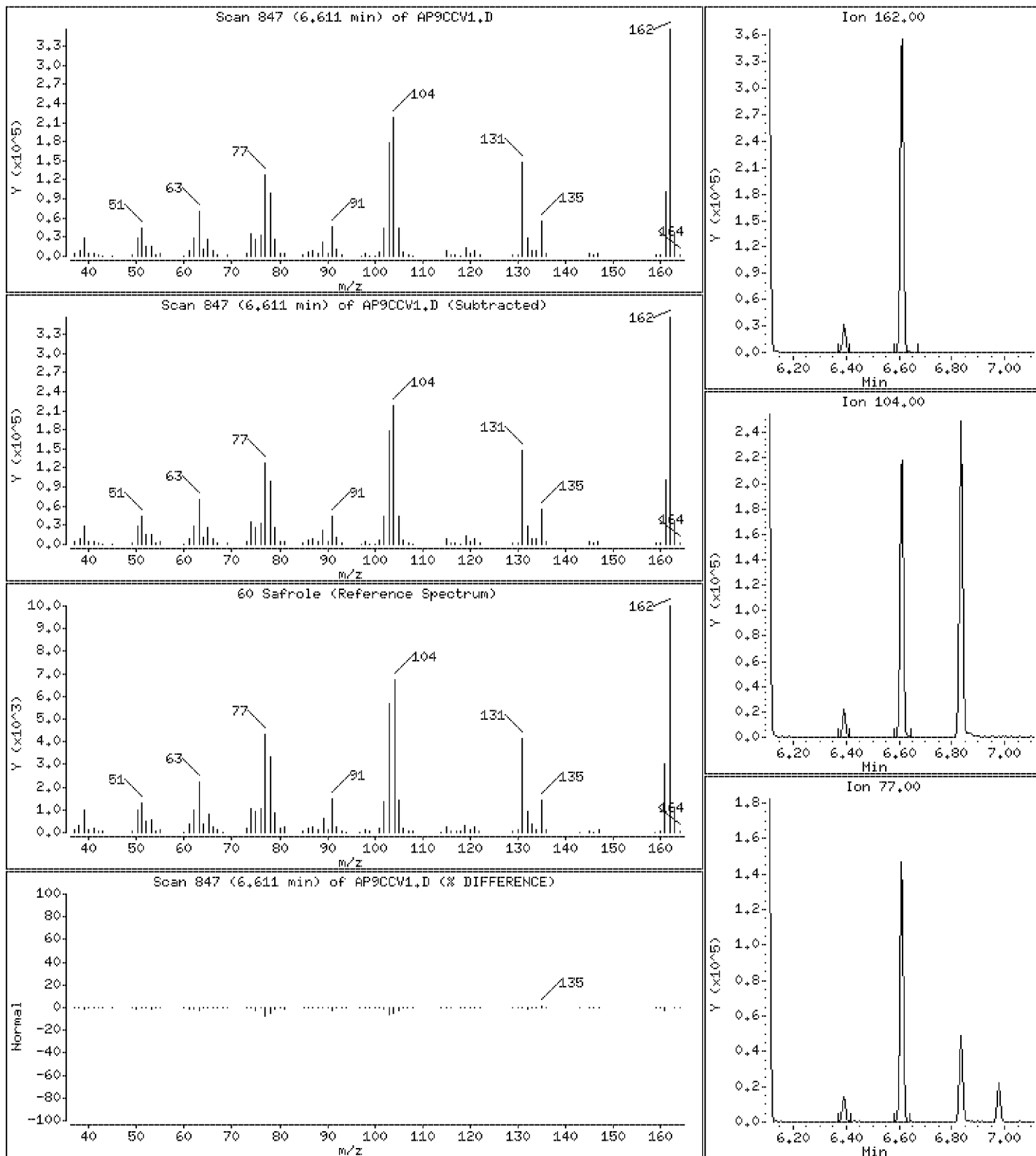
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

60 Safrole

Concentration: 48.9 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

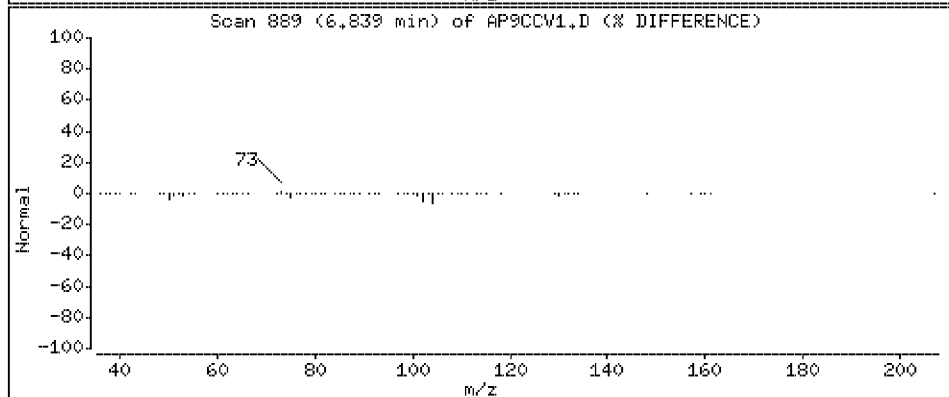
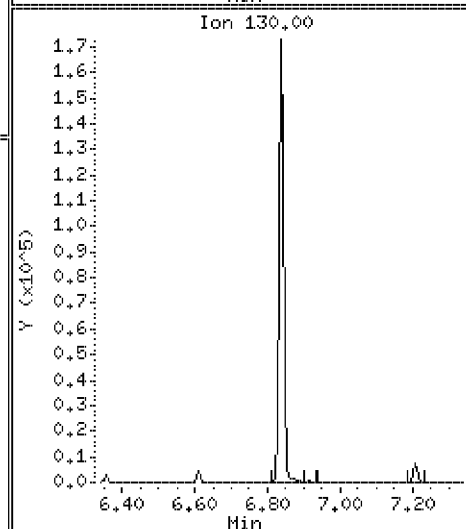
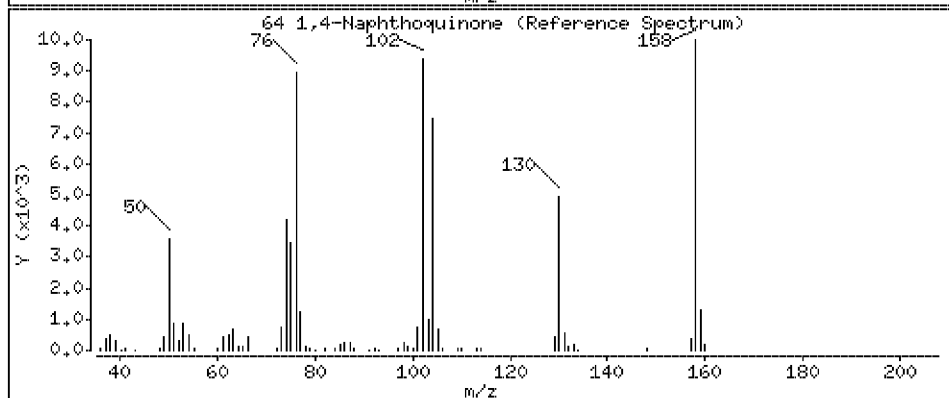
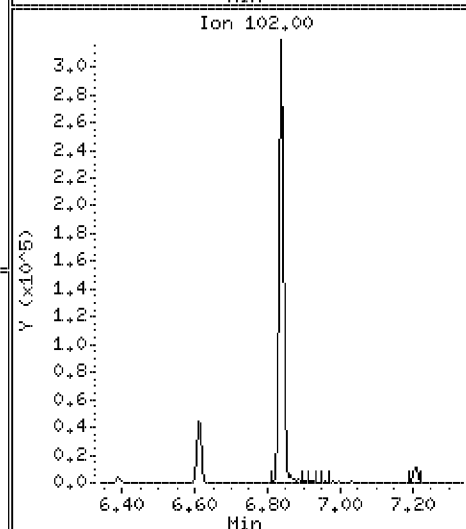
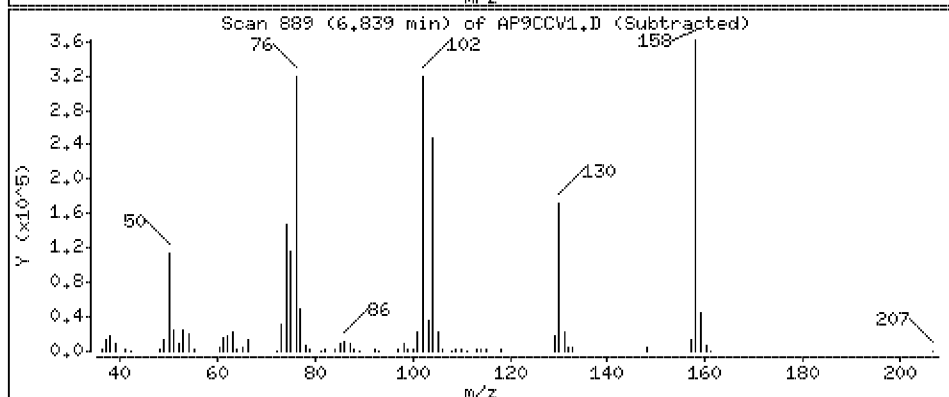
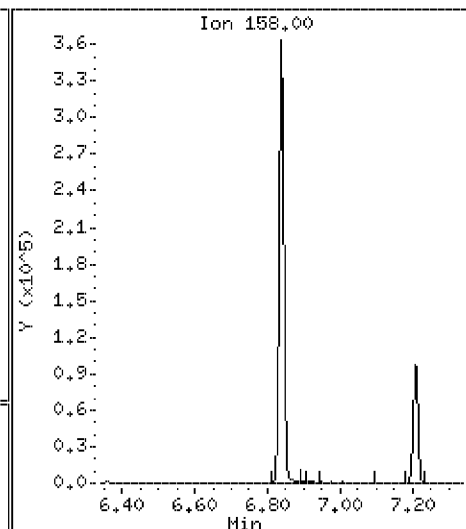
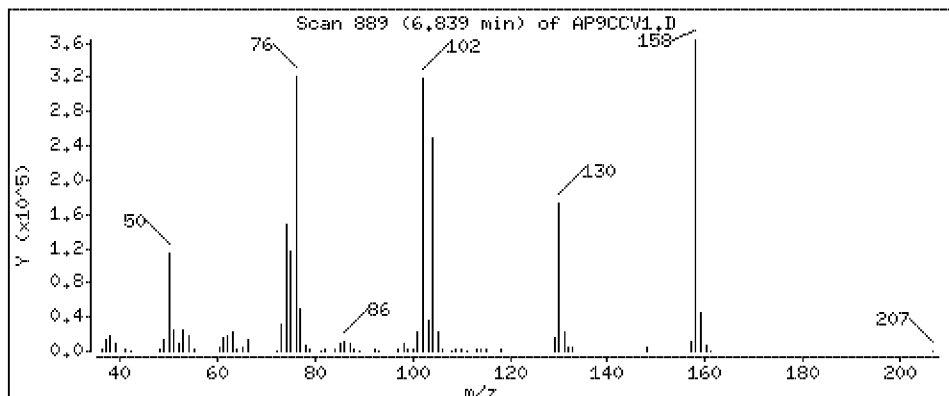
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

64 1,4-Naphthoquinone

Concentration: 49.7 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

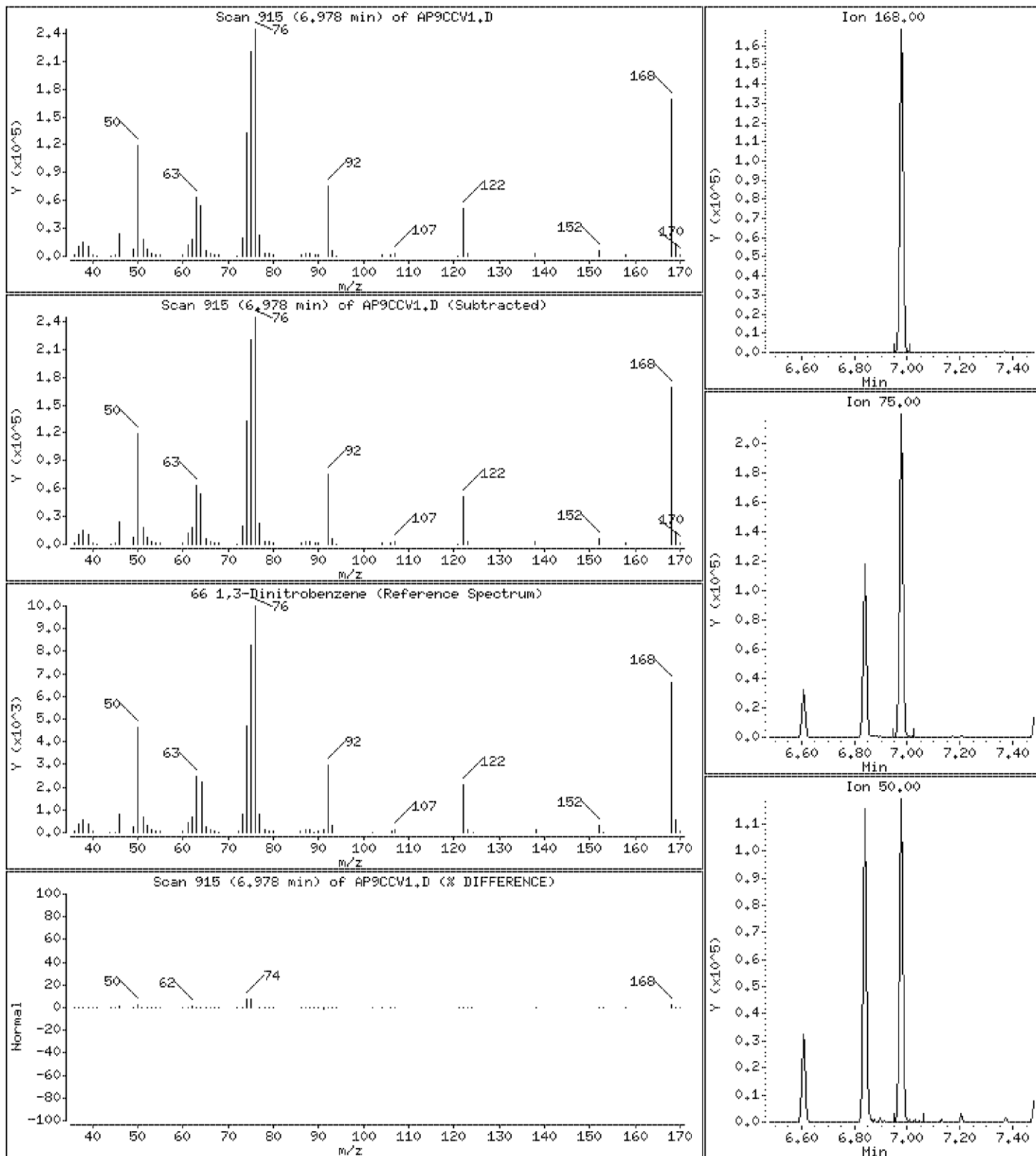
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

66 1,3-Dinitrobenzene

Concentration: 49.4 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

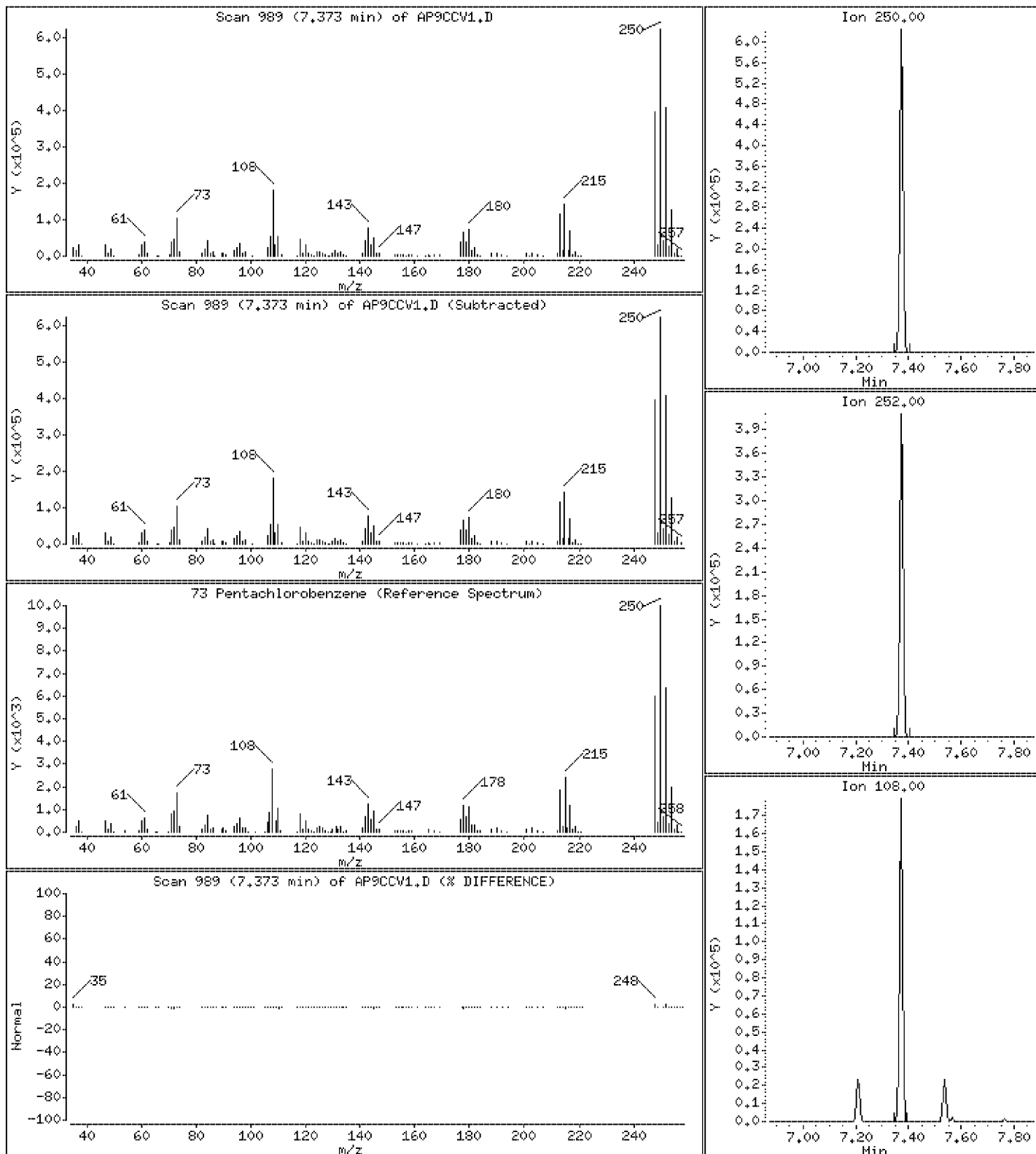
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

73 Pentachlorobenzene

Concentration: 47.0 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

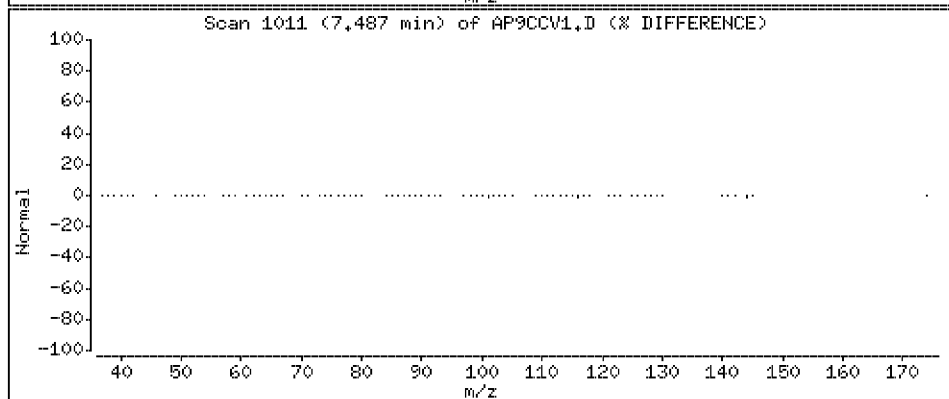
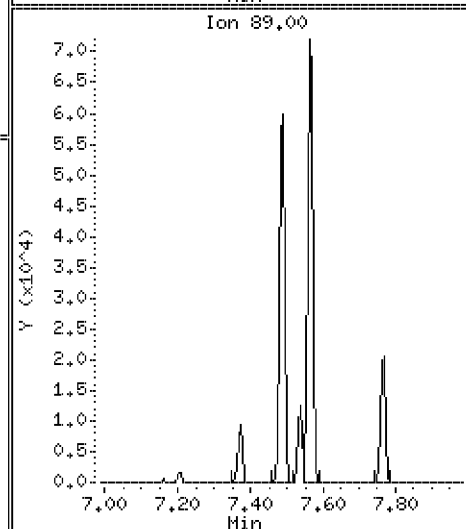
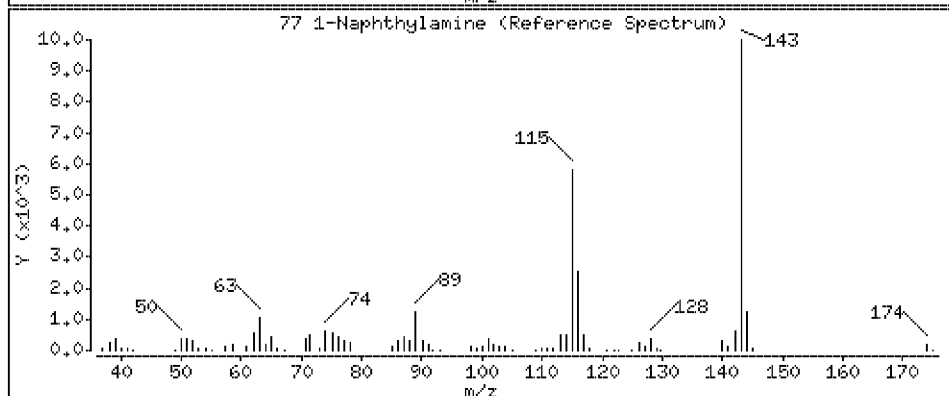
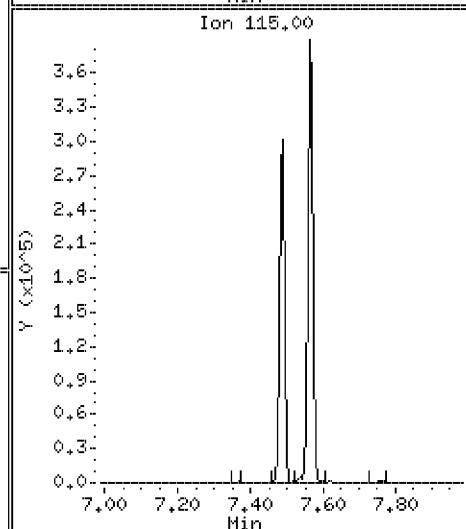
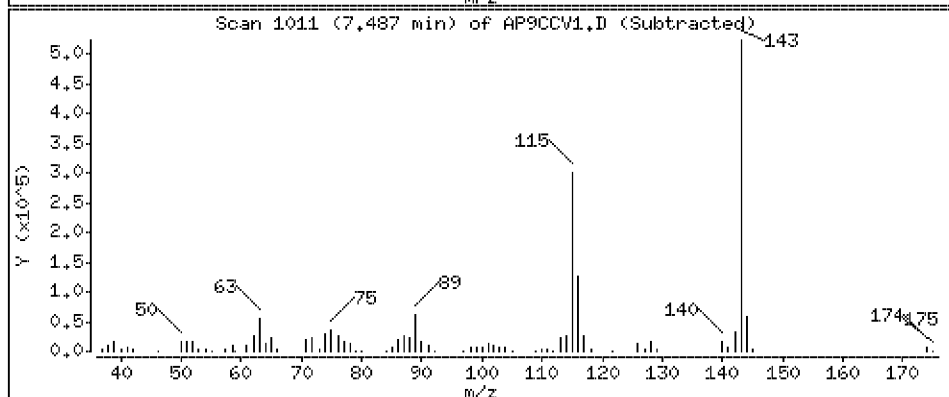
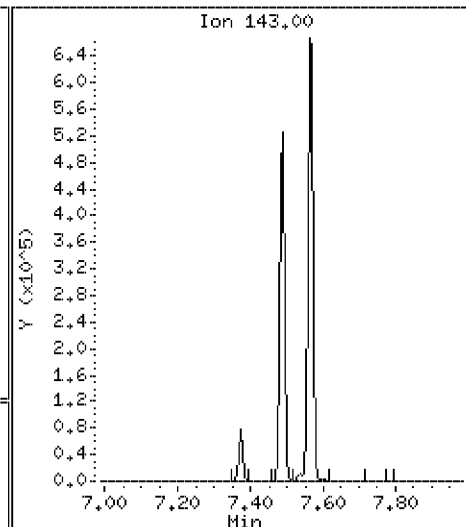
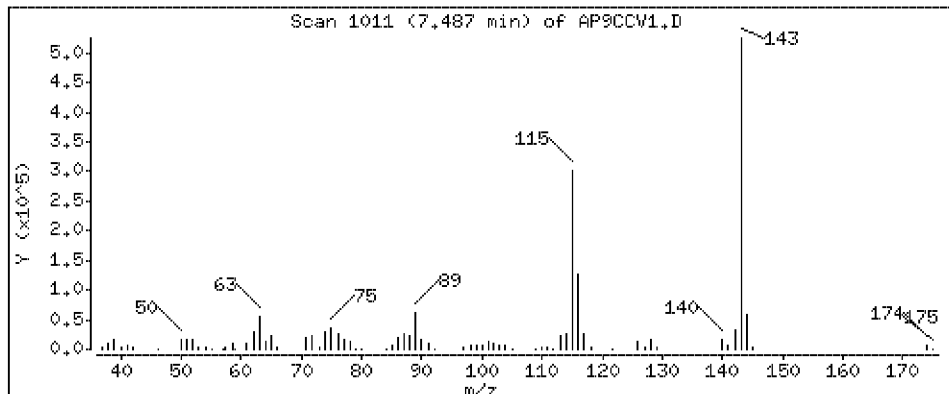
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

77 1-Naphthylamine

Concentration: 44.7 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

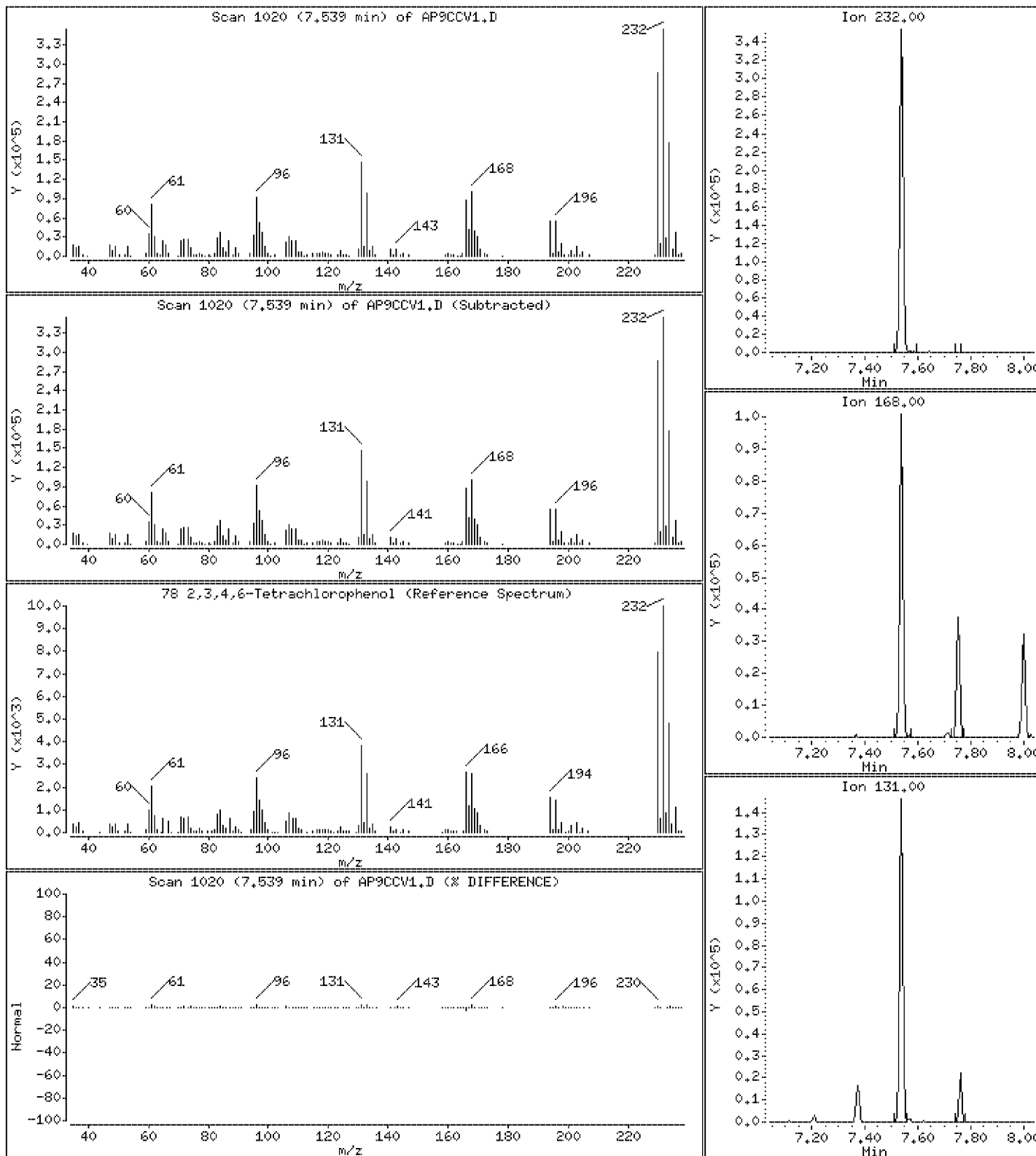
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

78 2,3,4,6-Tetrachlorophenol

Concentration: 51.6 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

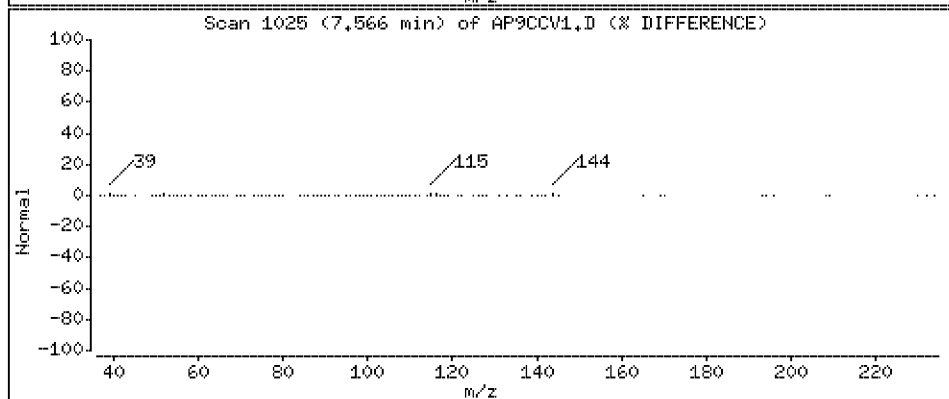
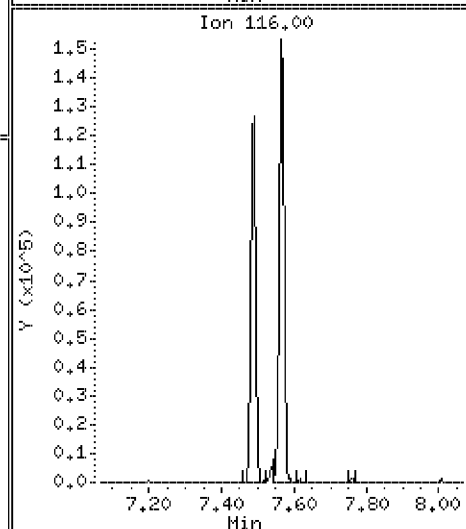
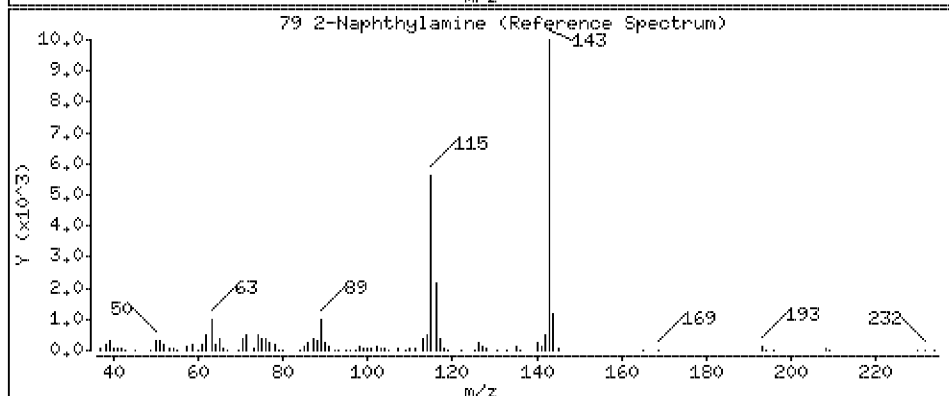
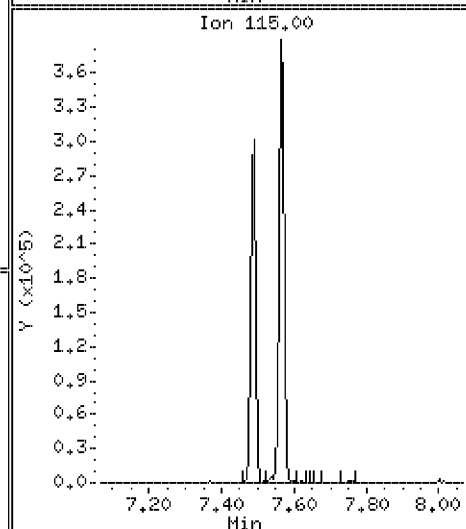
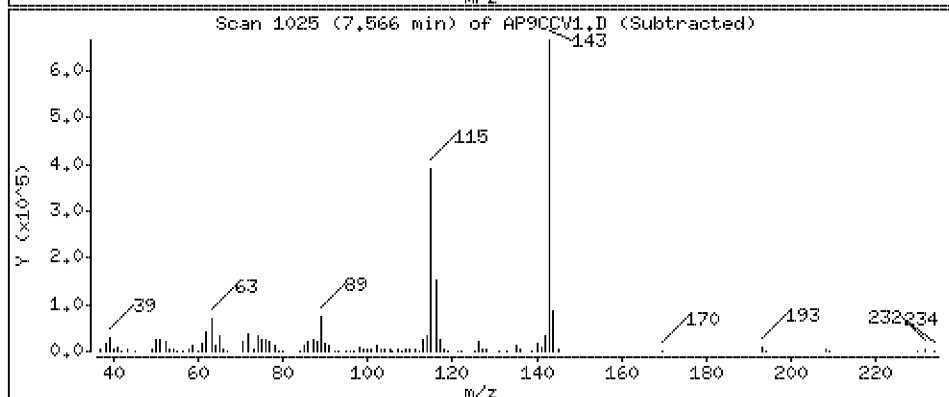
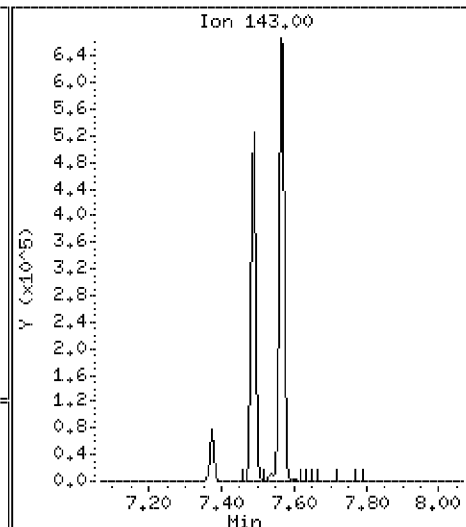
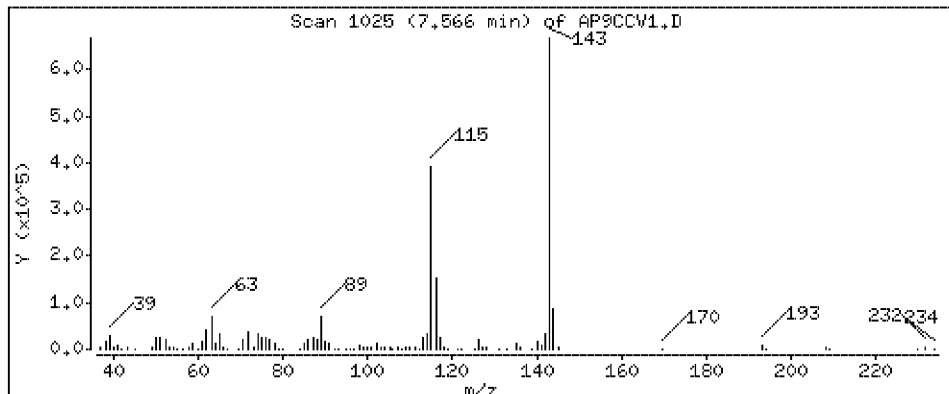
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

79 2-Naphthylamine

Concentration: 46.5 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

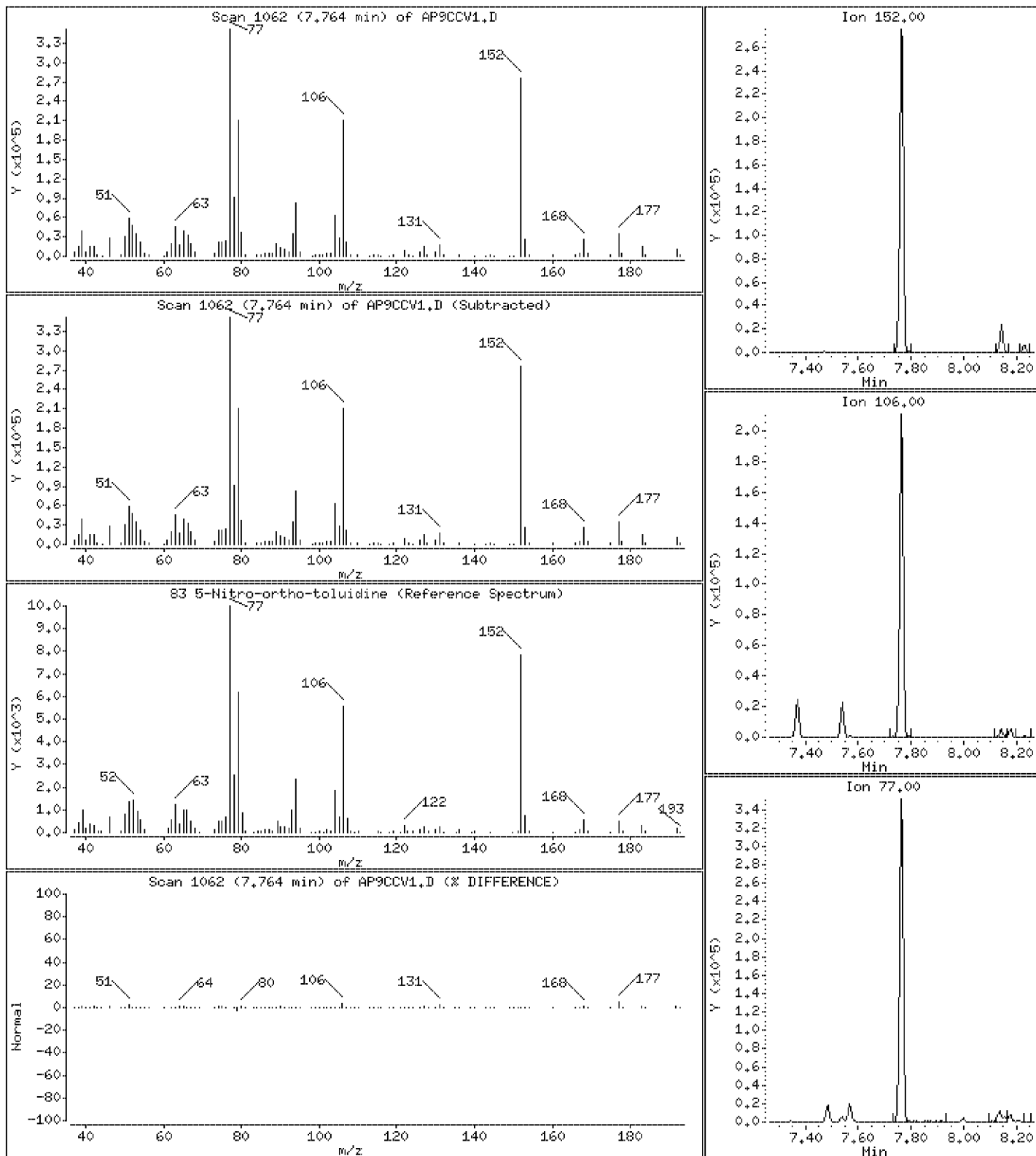
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

83 5-Nitro-ortho-toluidine

Concentration: 48.6 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

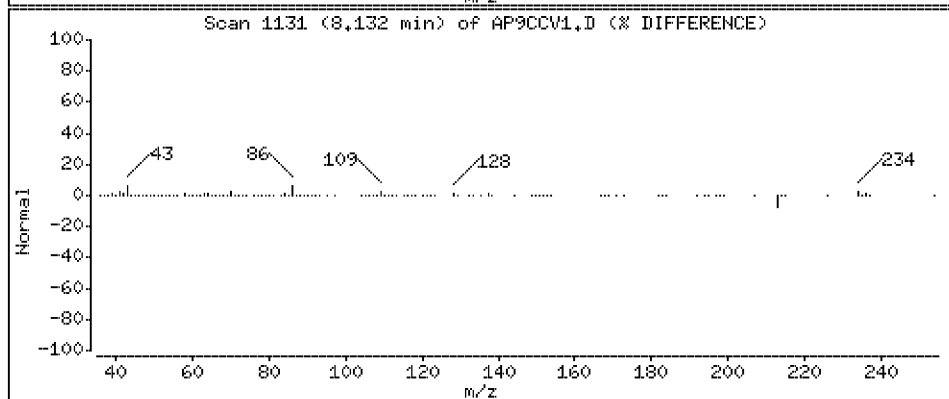
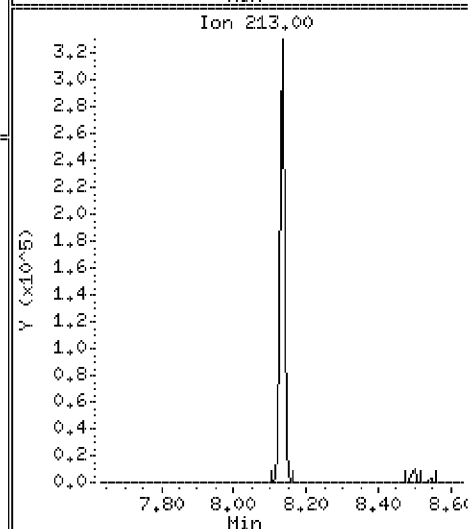
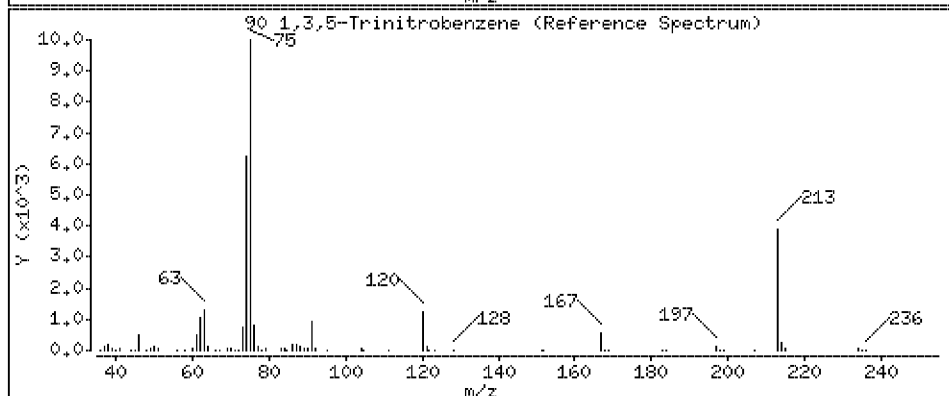
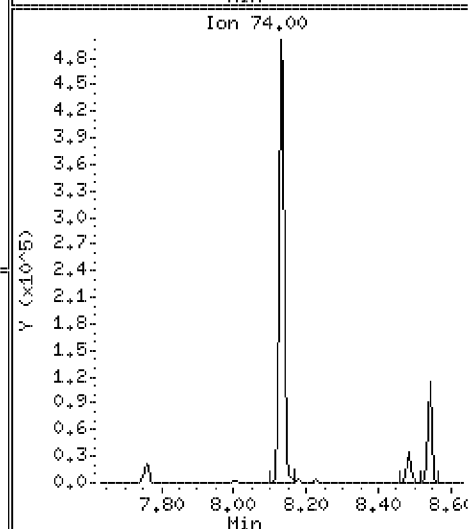
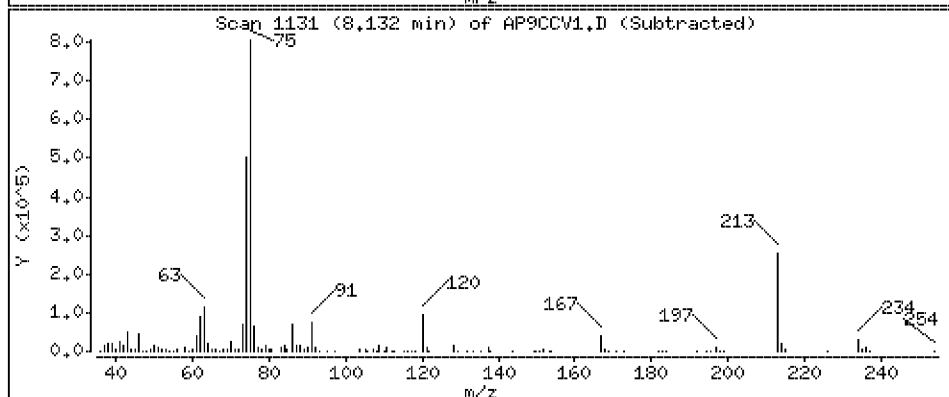
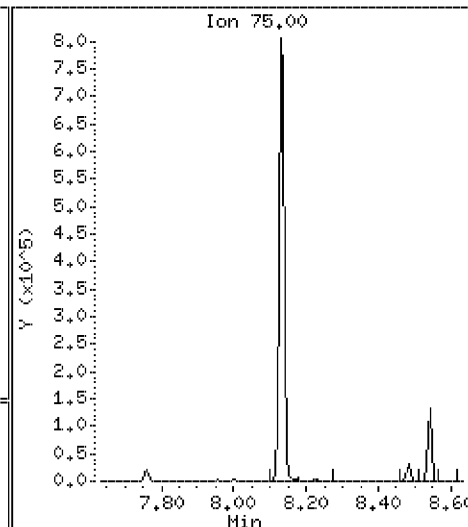
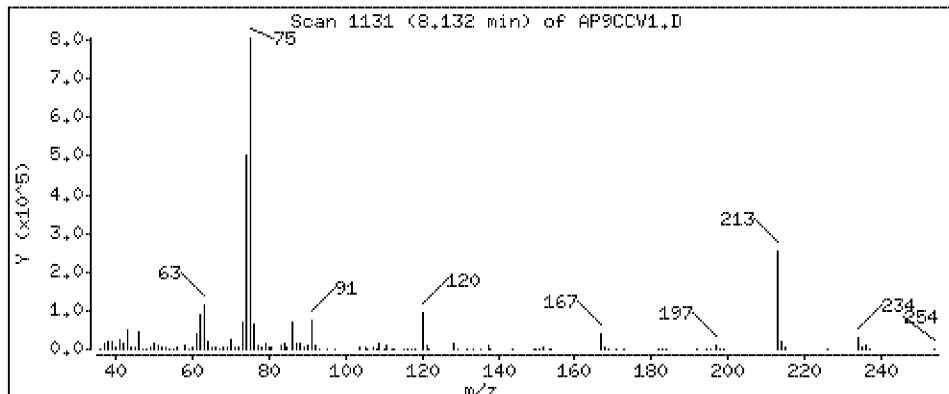
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

90 1,3,5-Trinitrobenzene

Concentration: 51.3 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

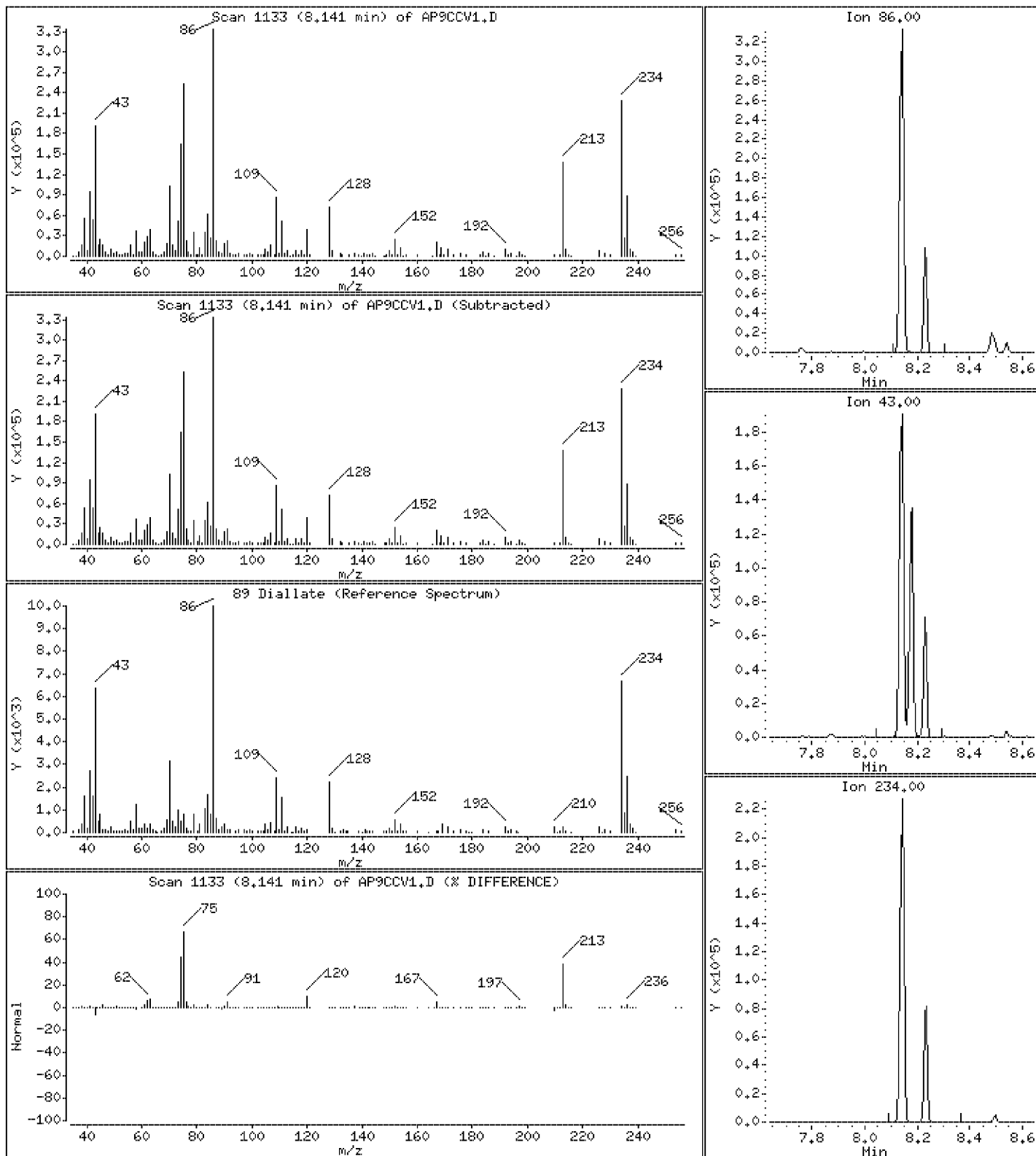
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

89 Diallate

Concentration: 47.3 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

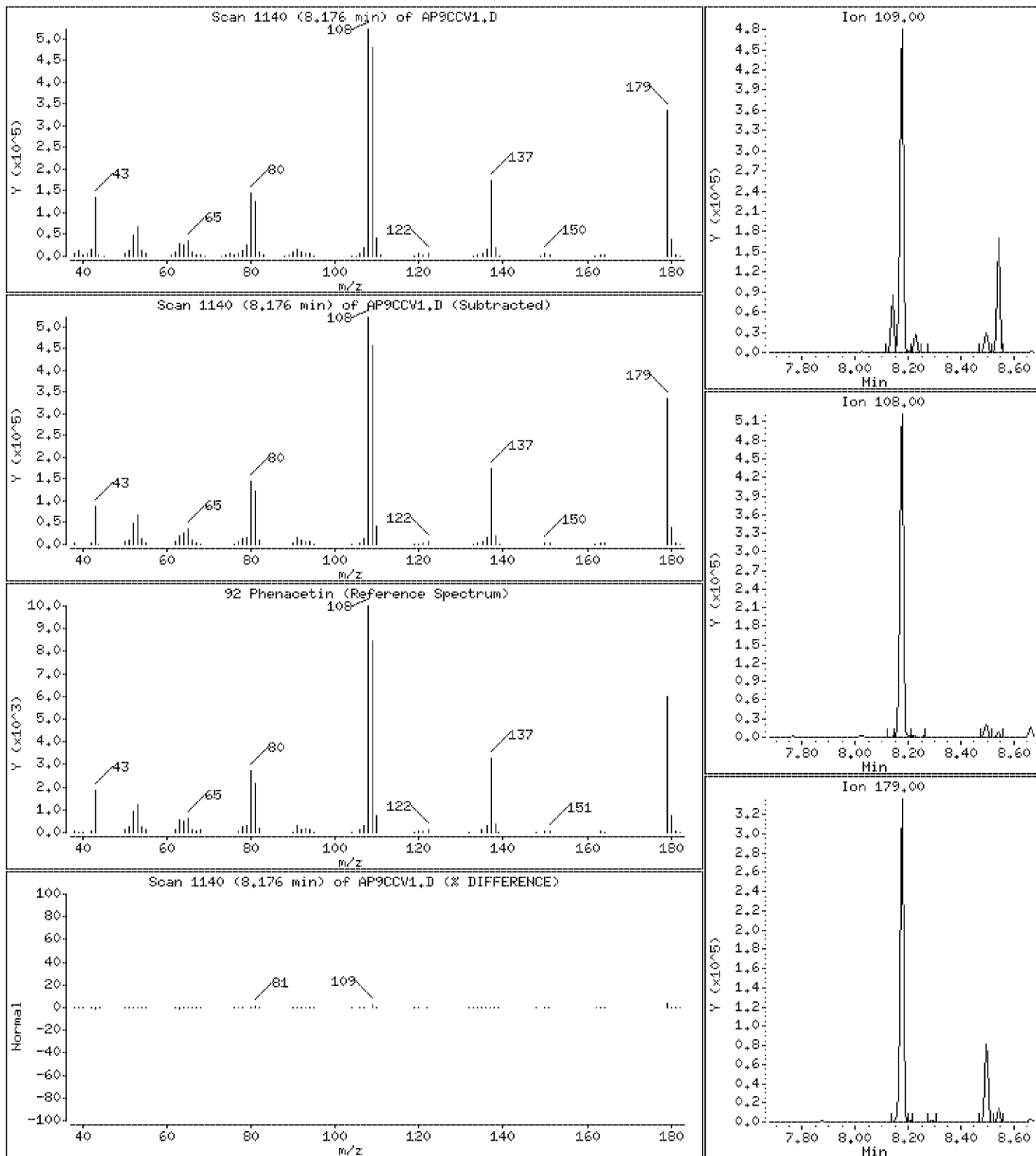
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

92 Phenacetin

Concentration: 46.1 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

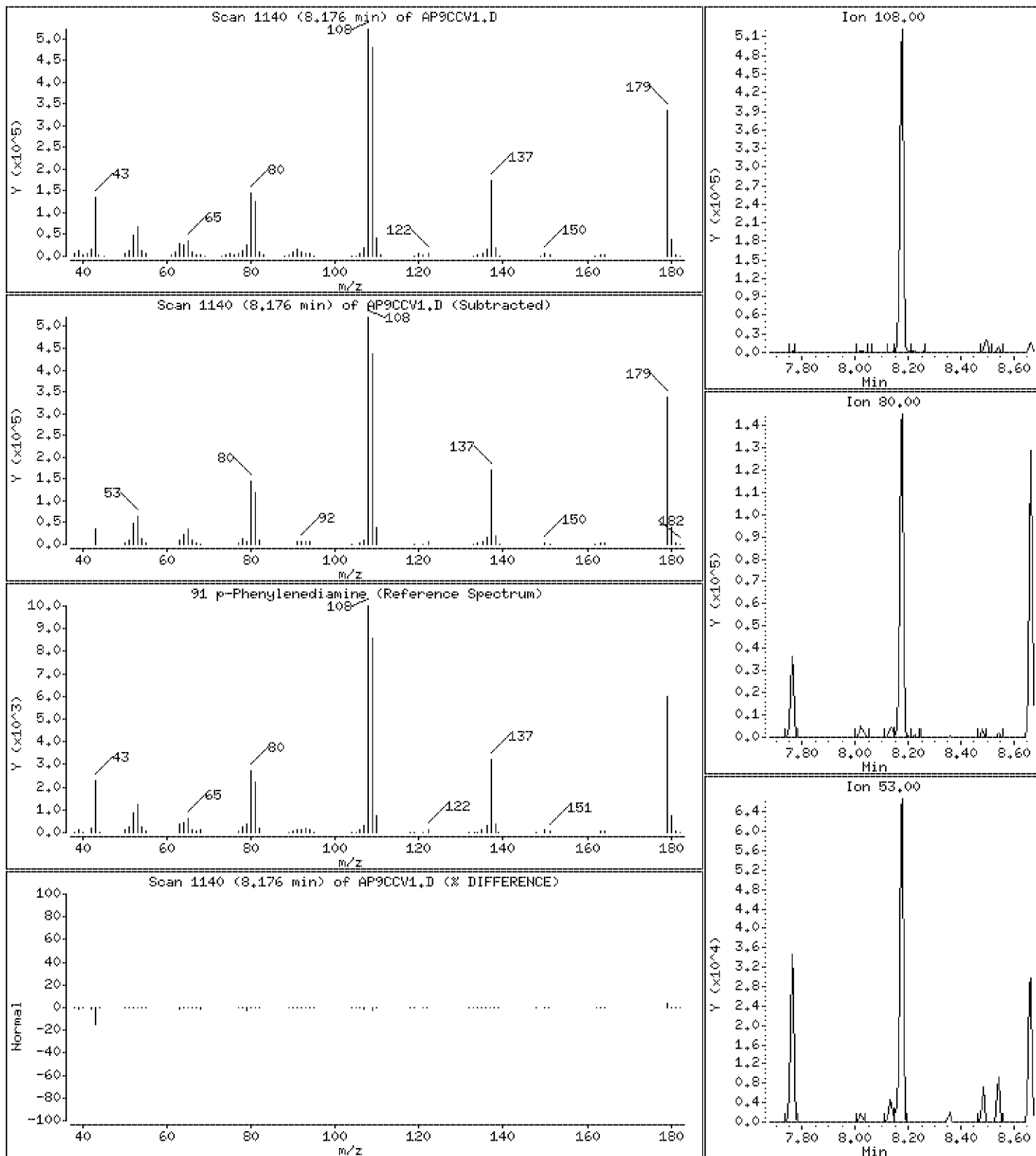
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

91 p-Phenylenediamine

Concentration: 47.8 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

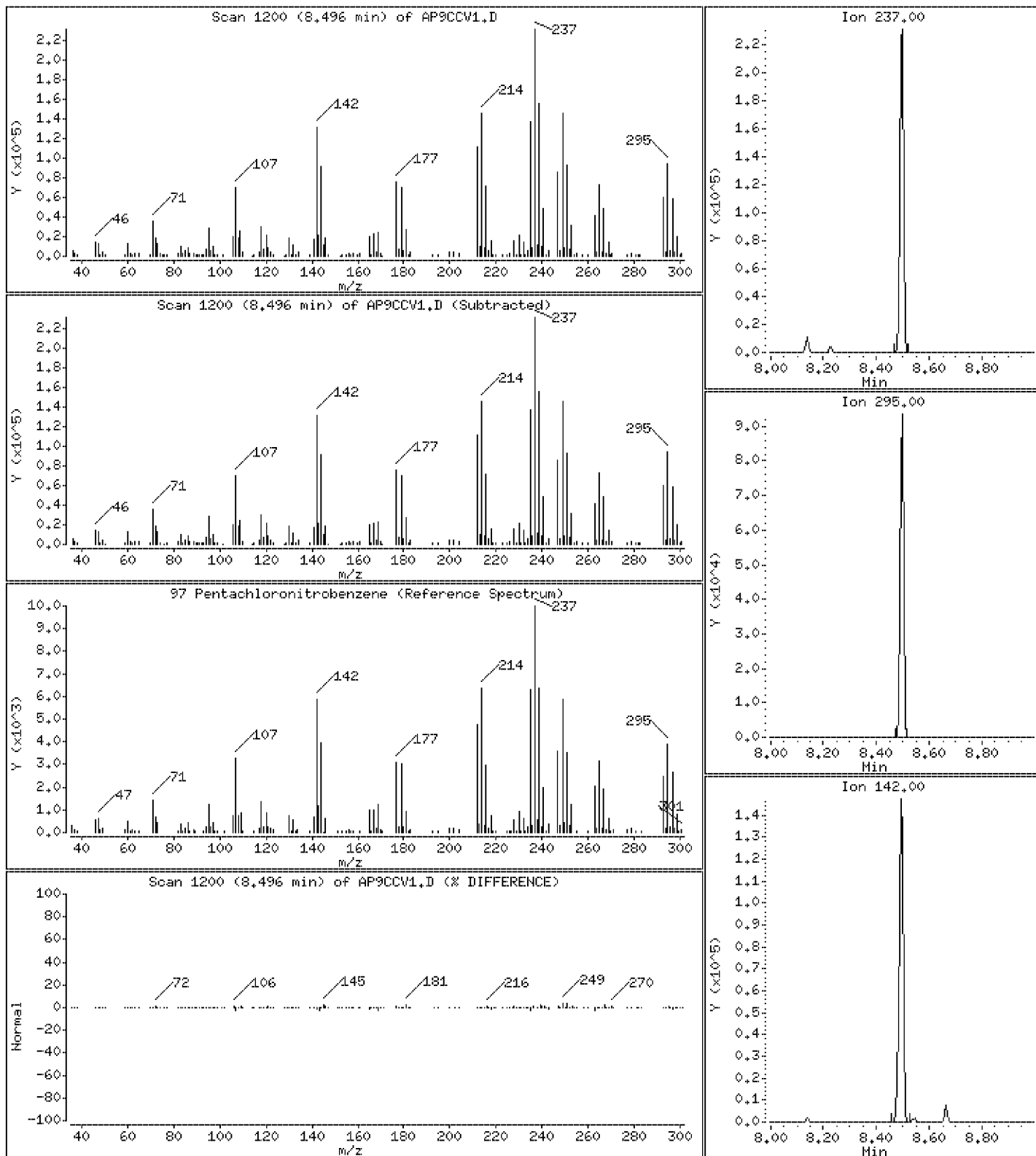
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

97 Pentachloronitrobenzene

Concentration: 45.8 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

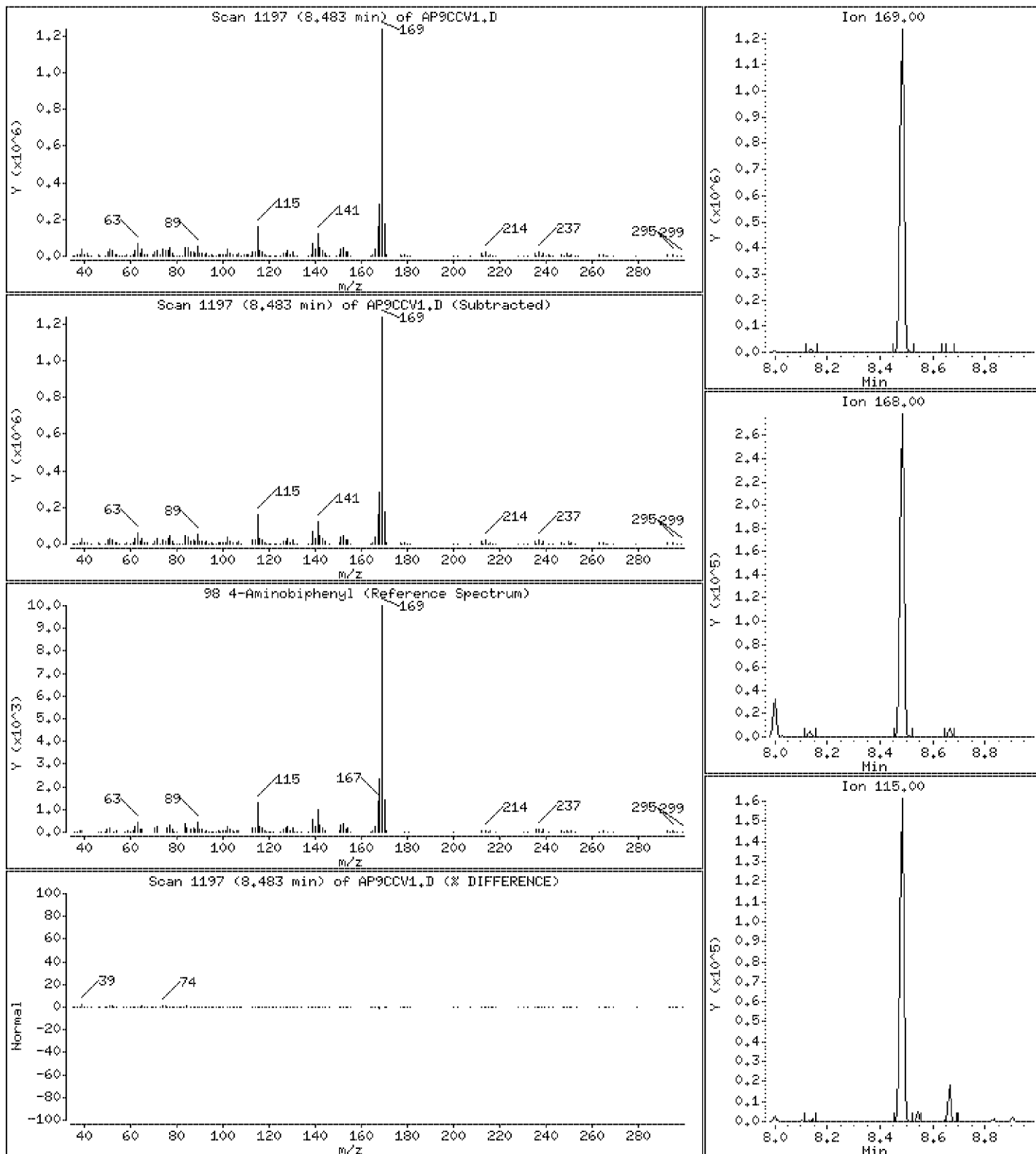
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

98 4-Aminobiphenyl

Concentration: 44.9 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

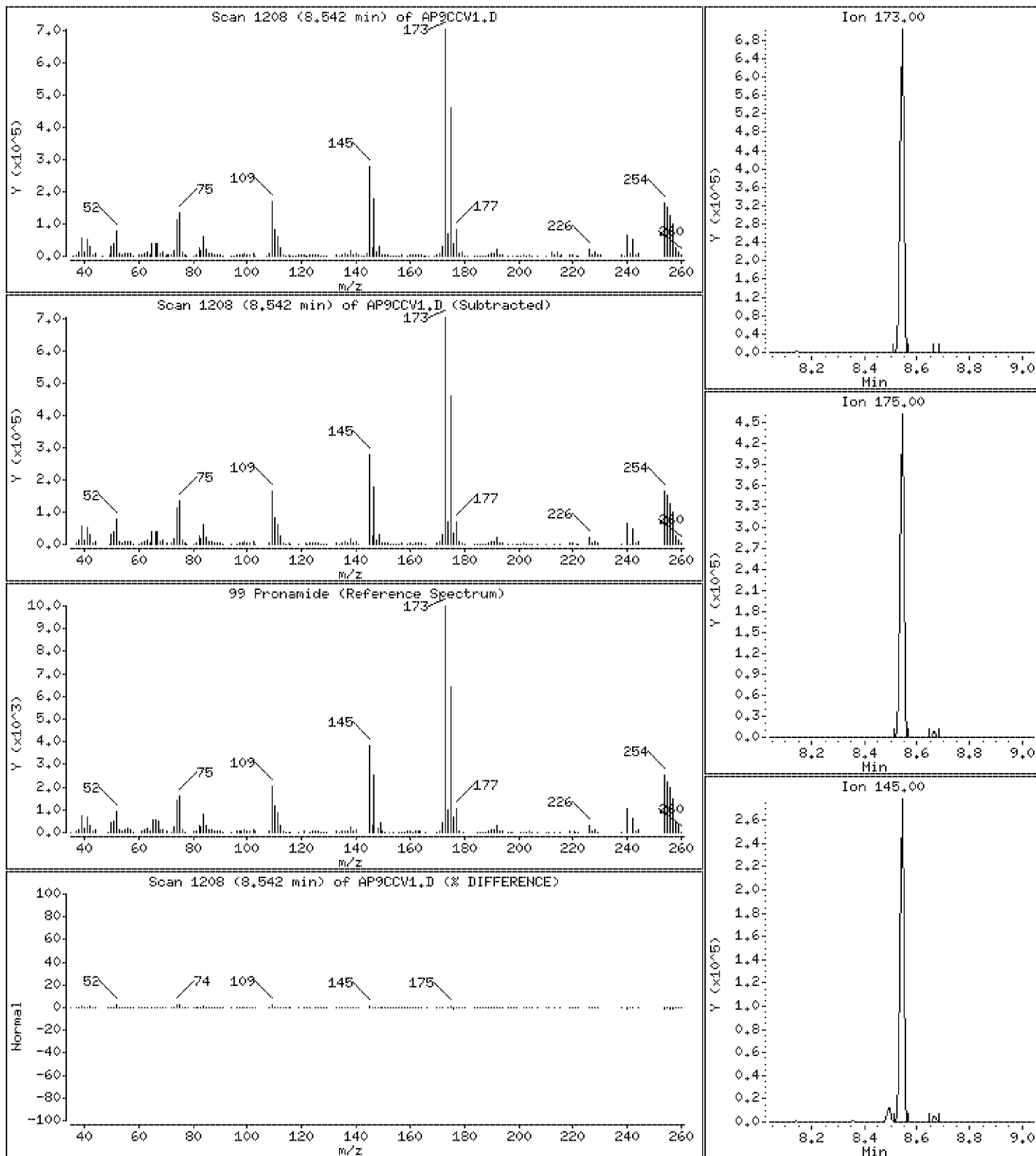
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

99 Pronamide

Concentration: 46.6 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

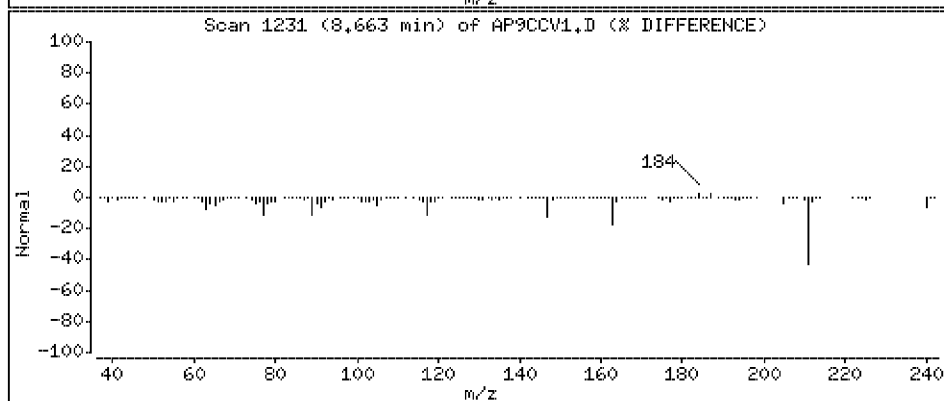
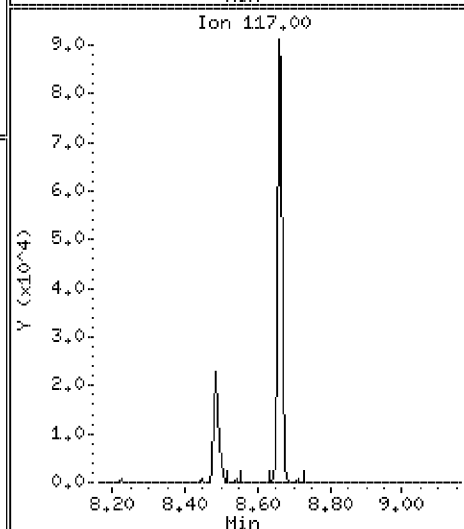
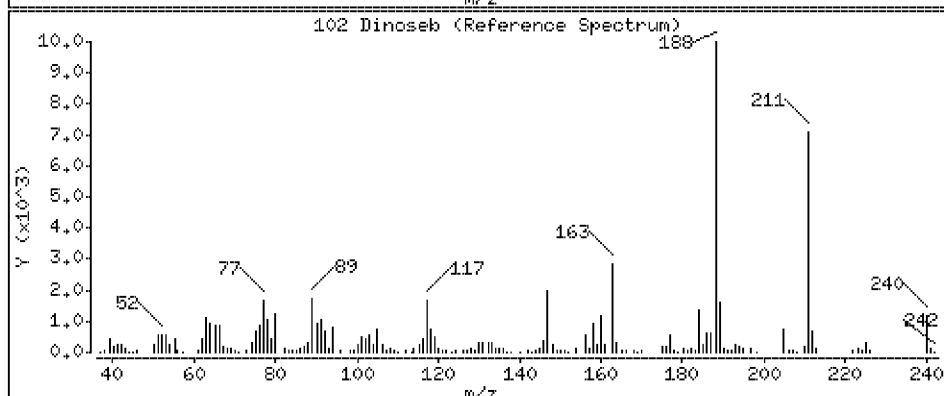
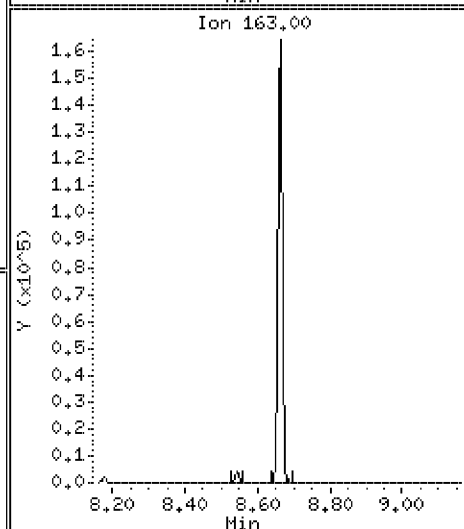
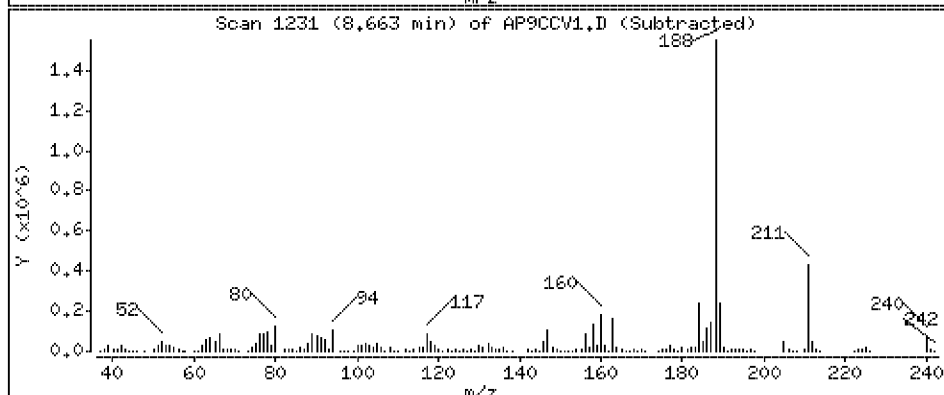
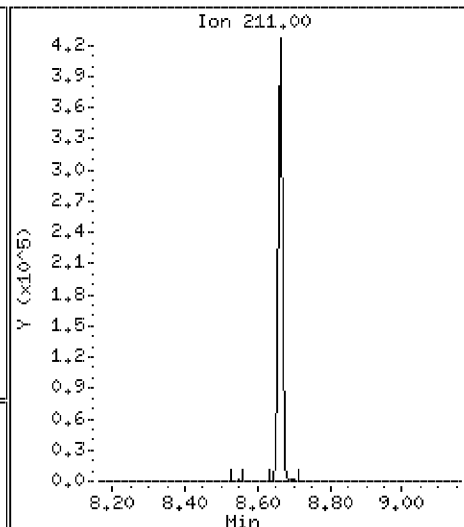
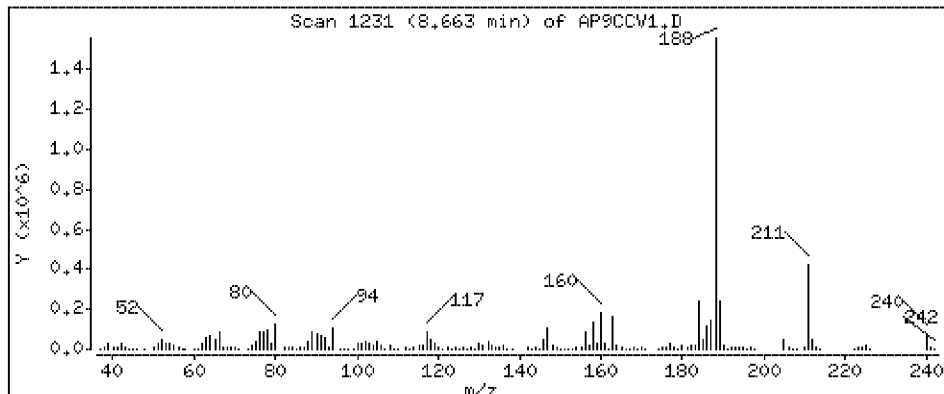
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

102 Dinoseb

Concentration: 45.0 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

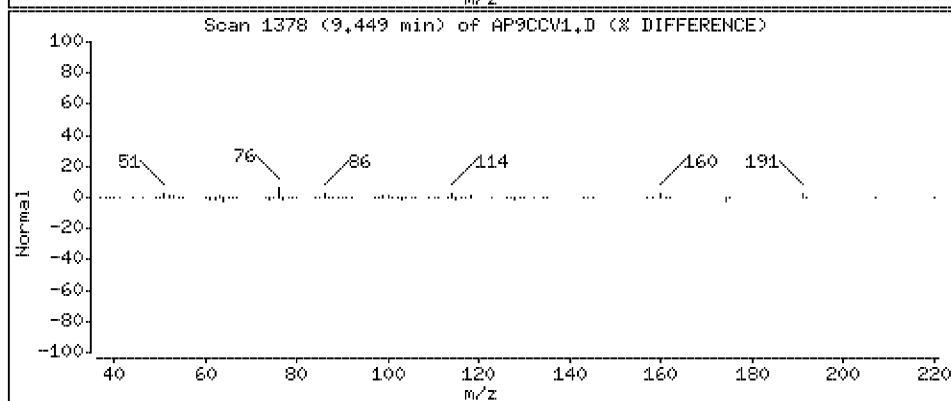
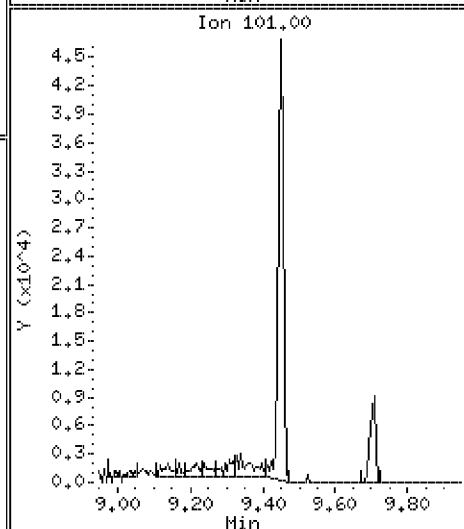
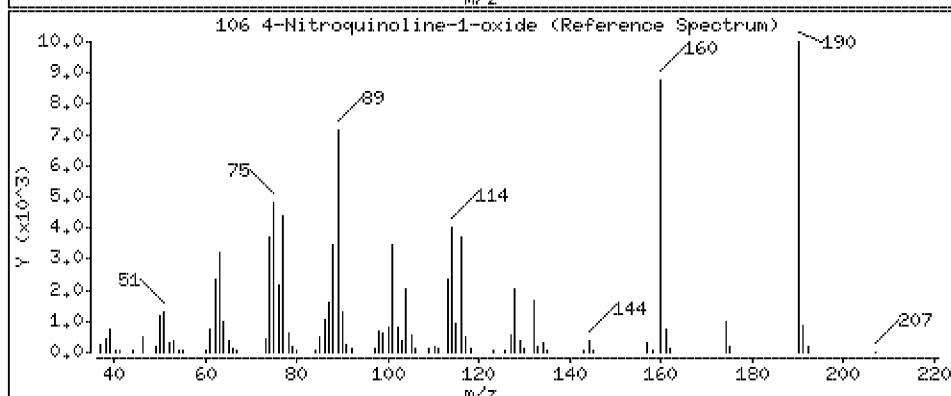
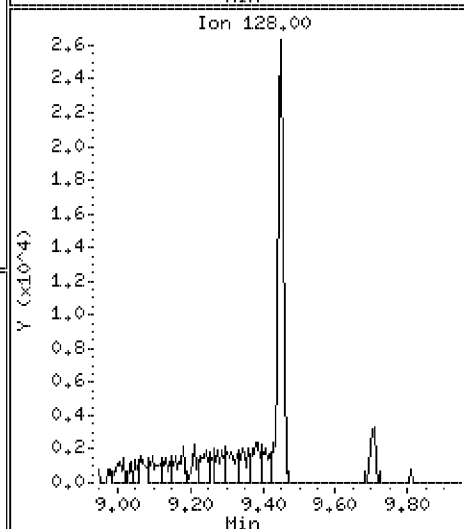
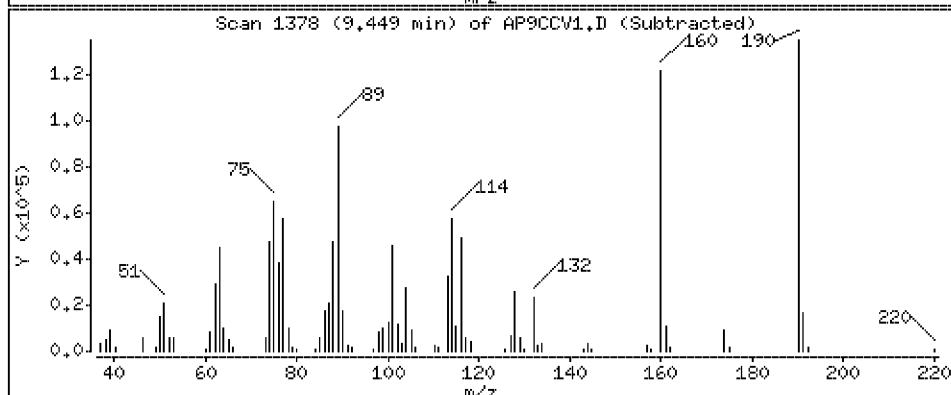
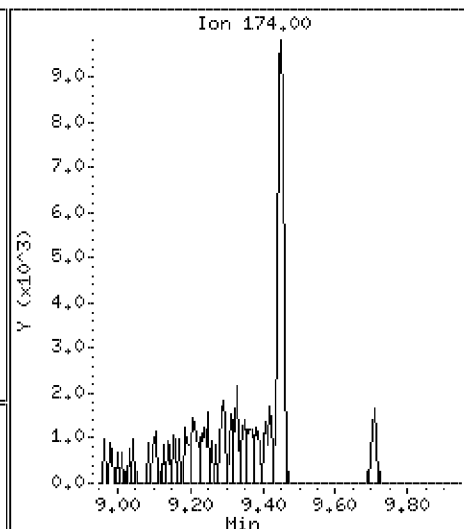
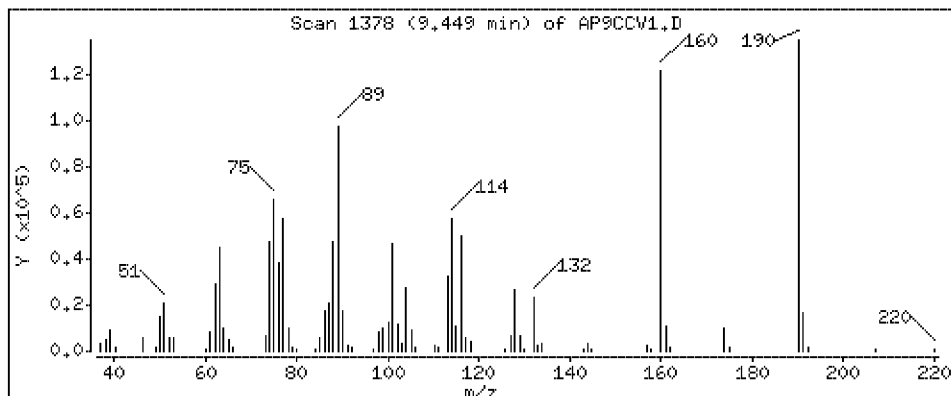
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

106 4-Nitroquinoline-1-oxide

Concentration: 32.2 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

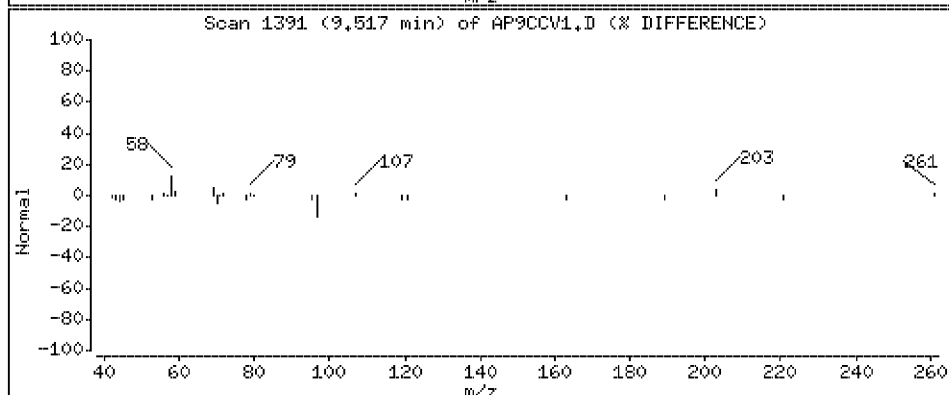
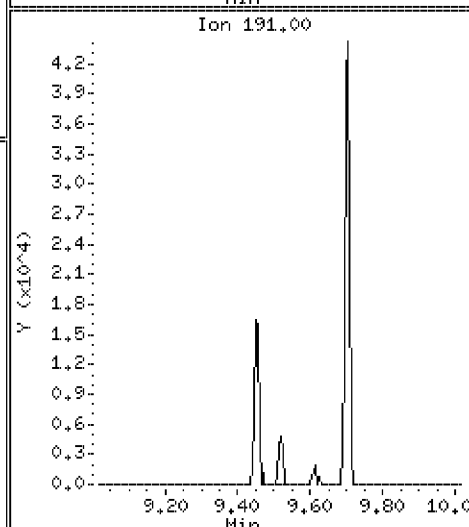
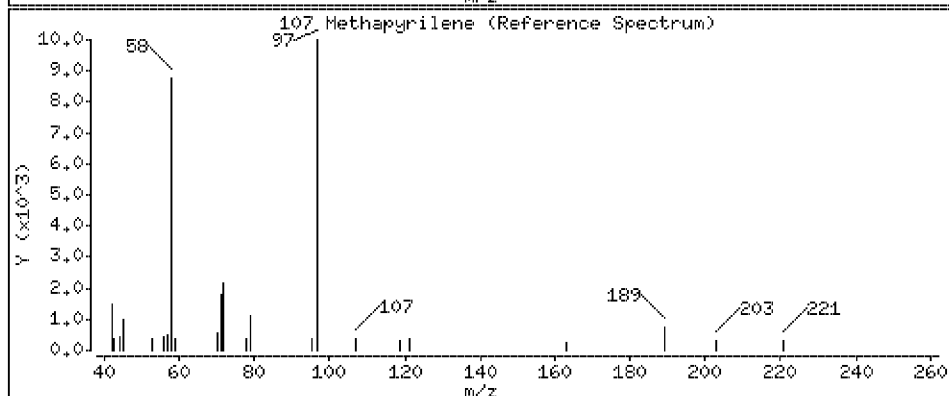
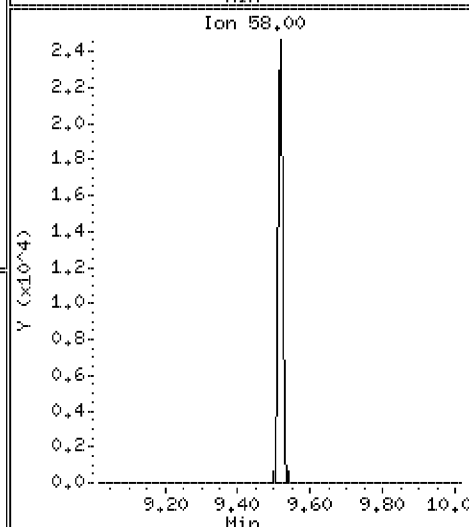
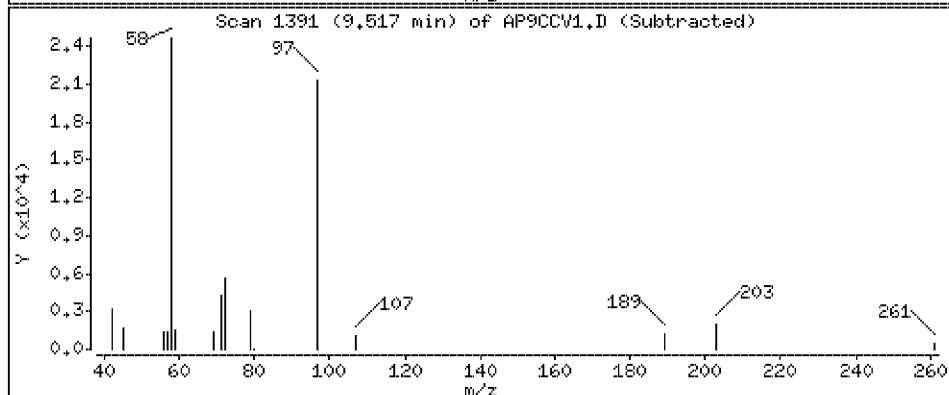
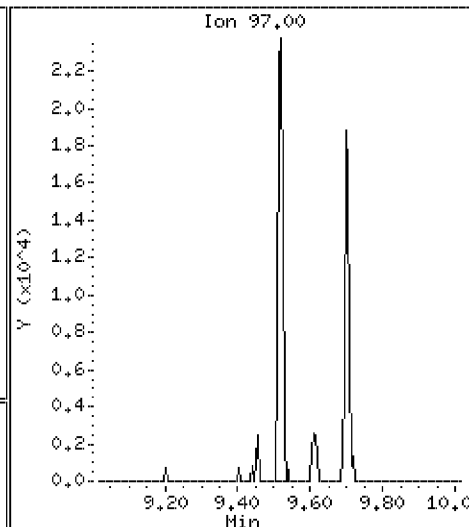
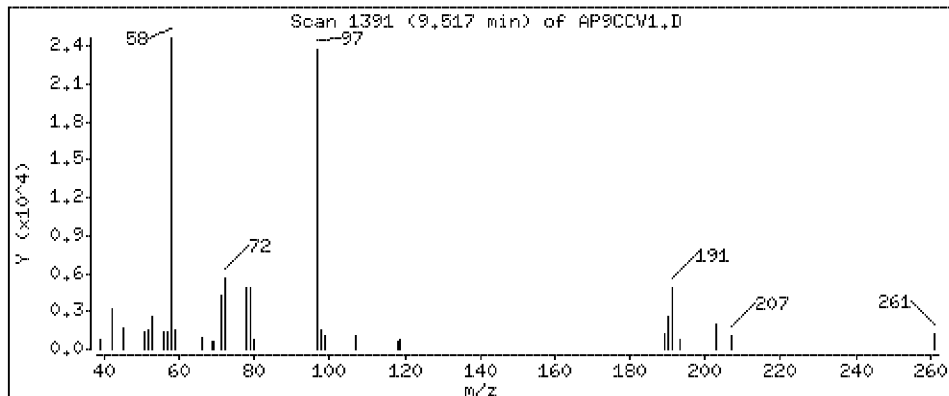
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

107 Methapyrilene

Concentration: 48.8 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

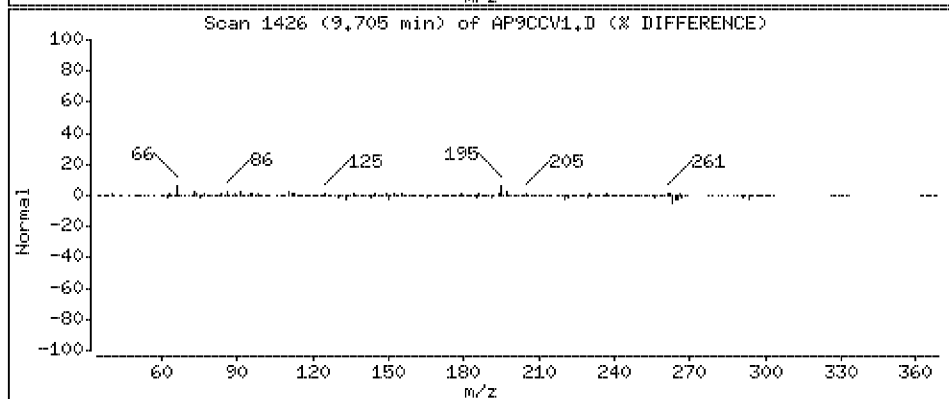
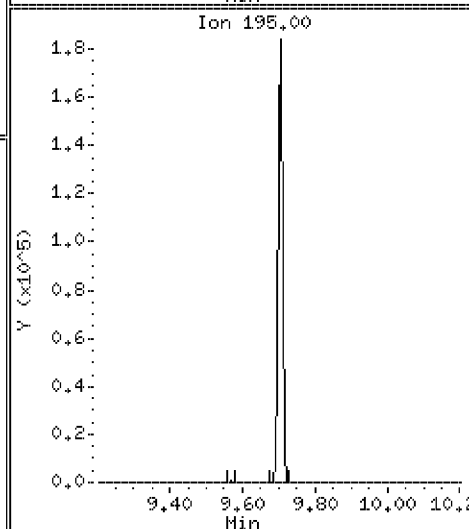
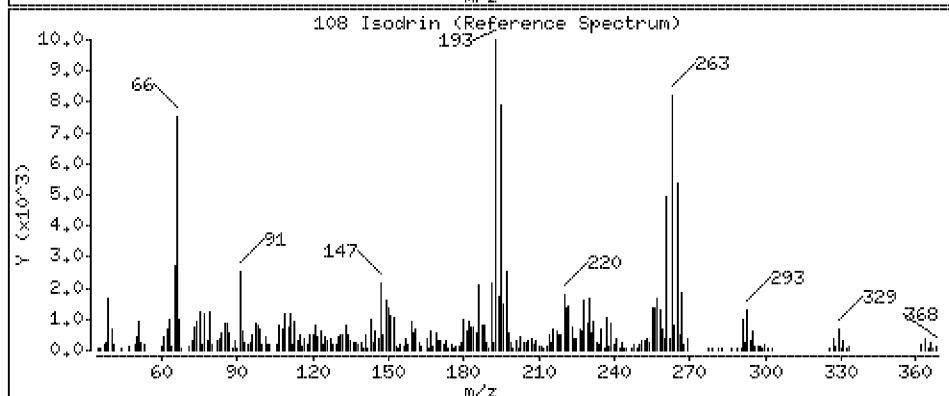
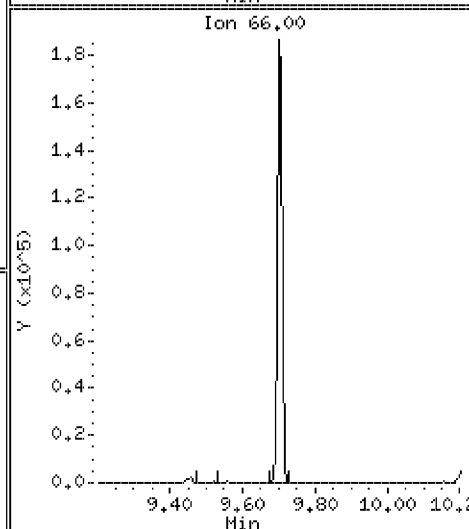
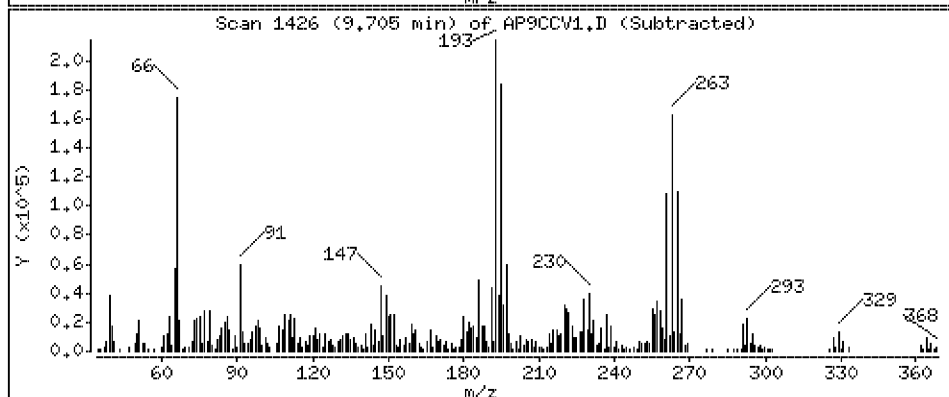
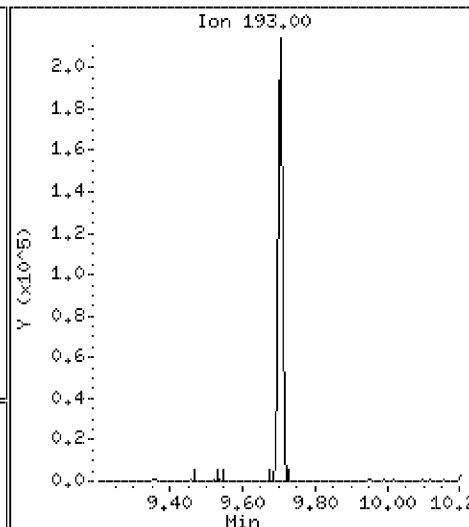
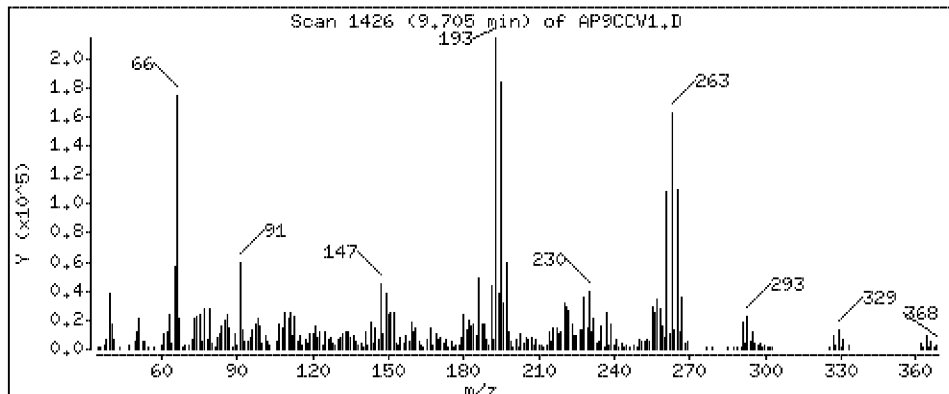
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

108 Isodrin

Concentration: 44.0 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

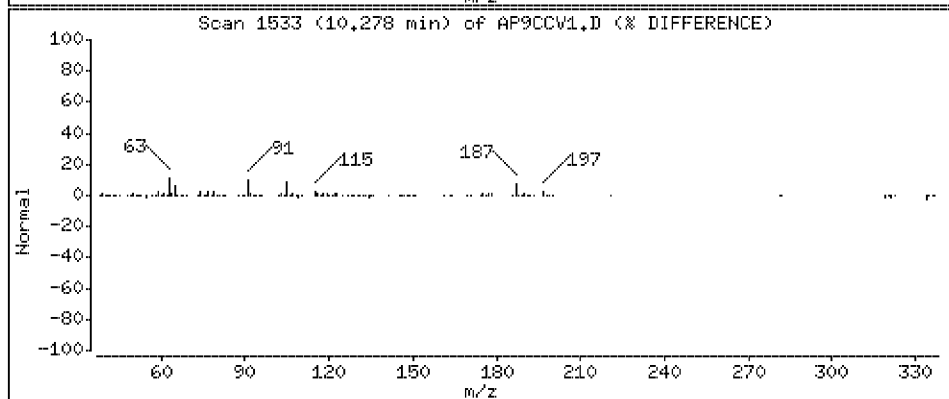
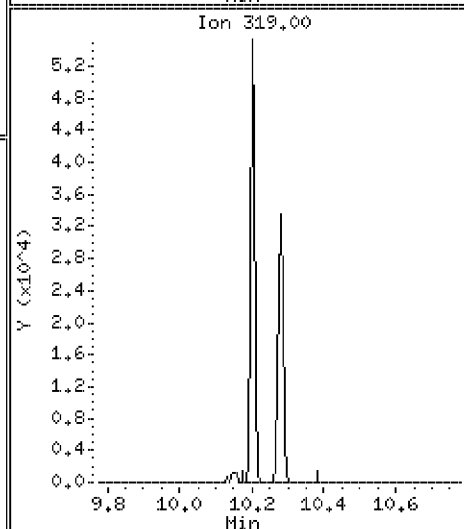
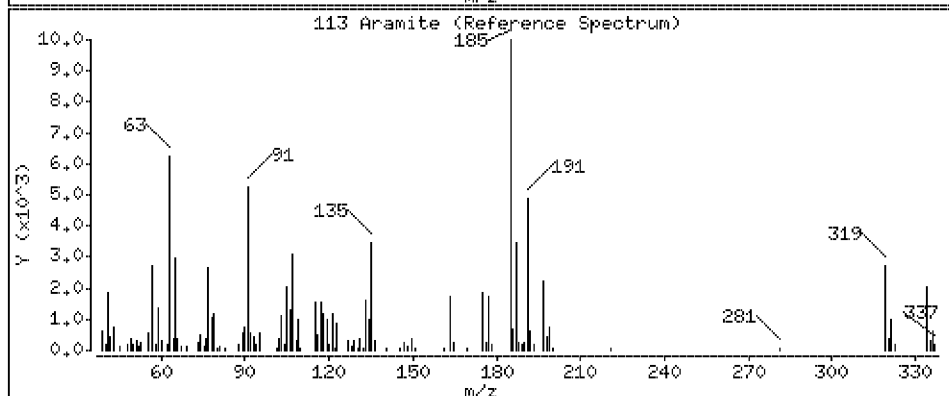
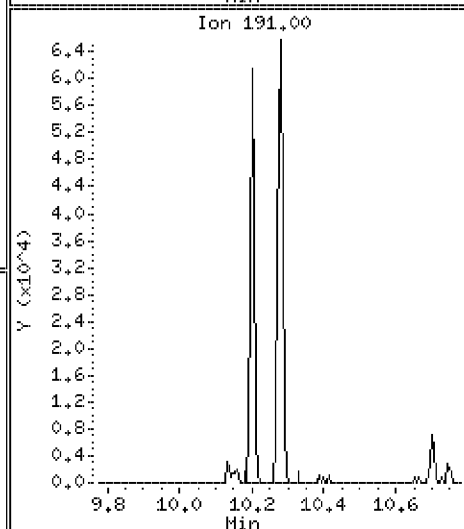
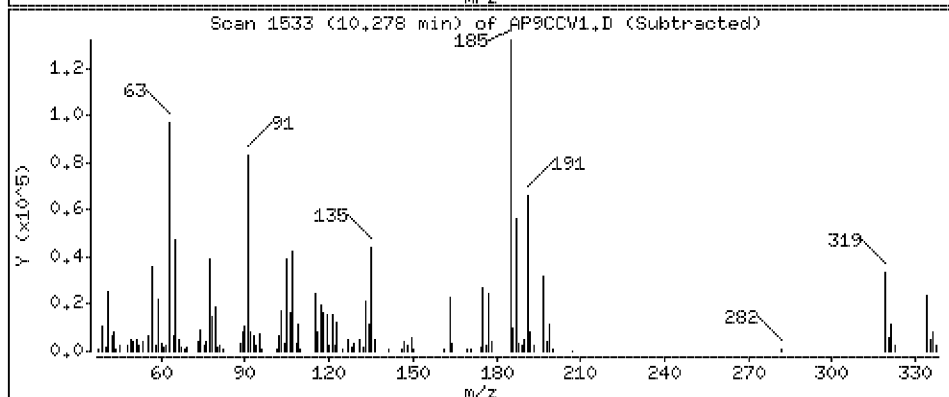
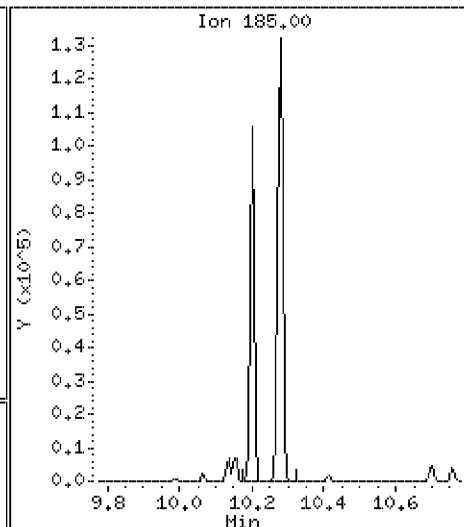
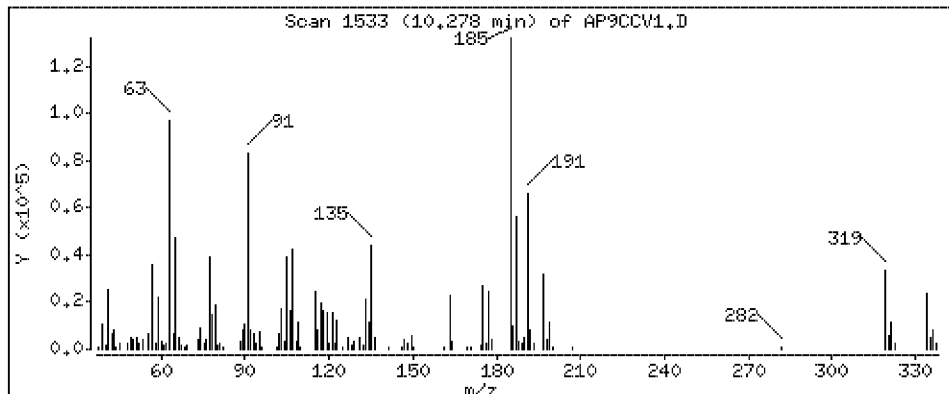
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

113 Aramite

Concentration: 44.9 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

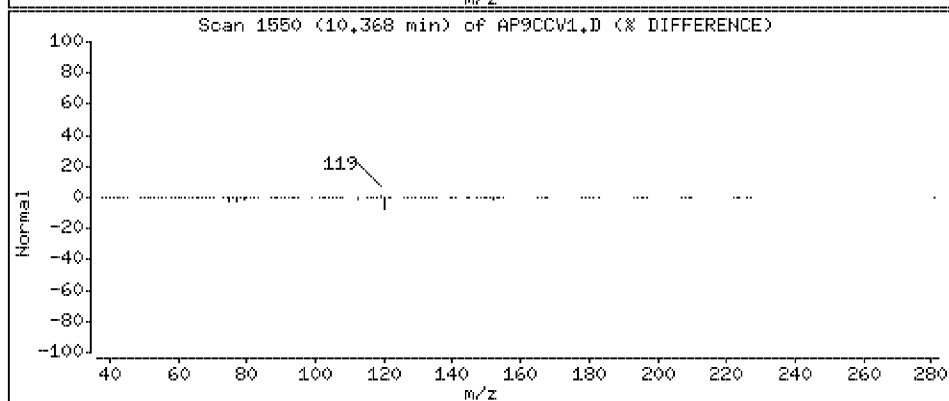
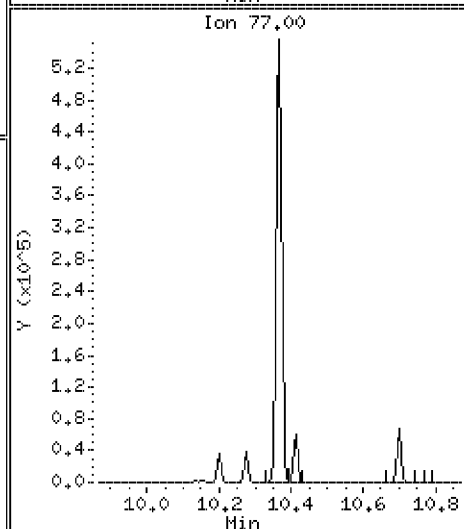
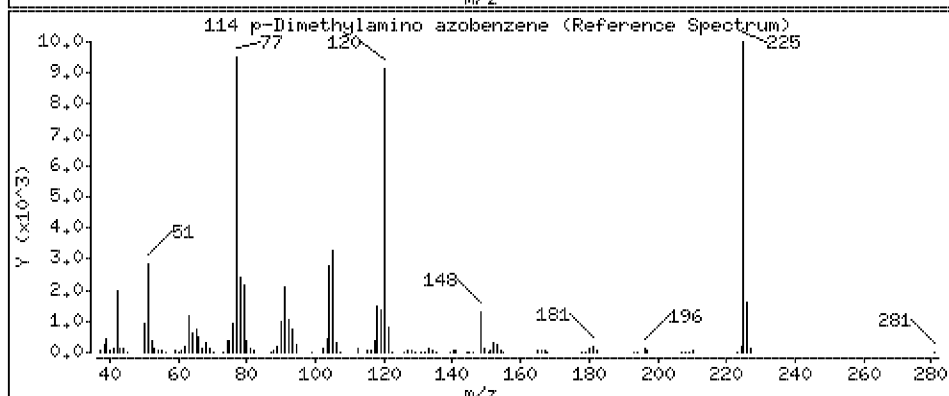
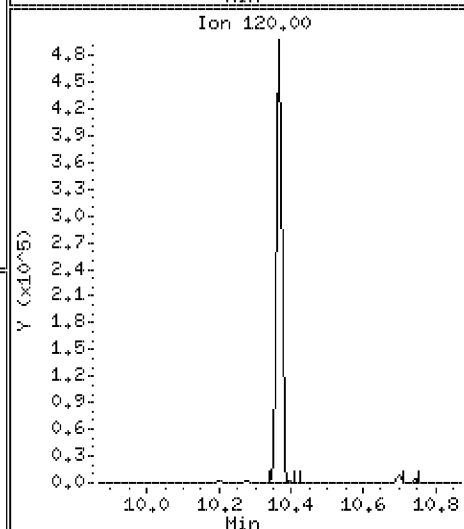
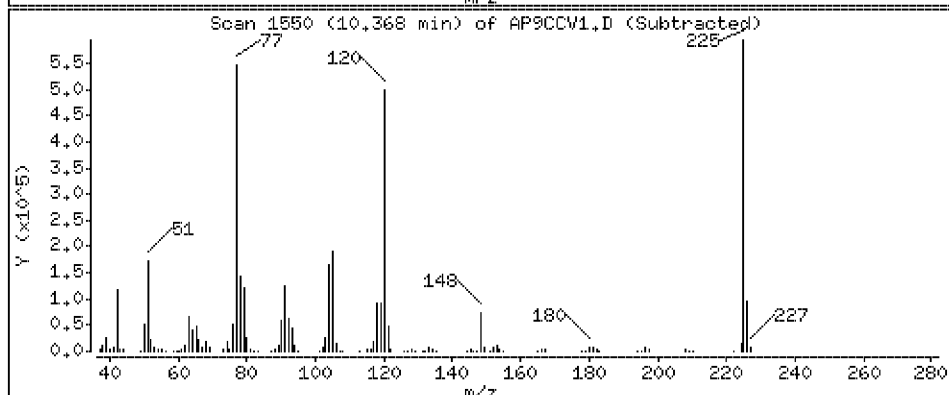
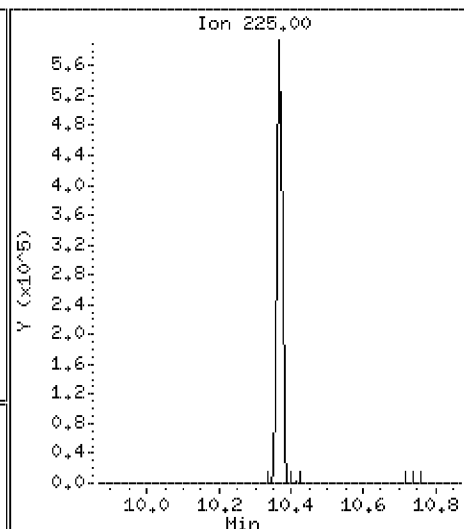
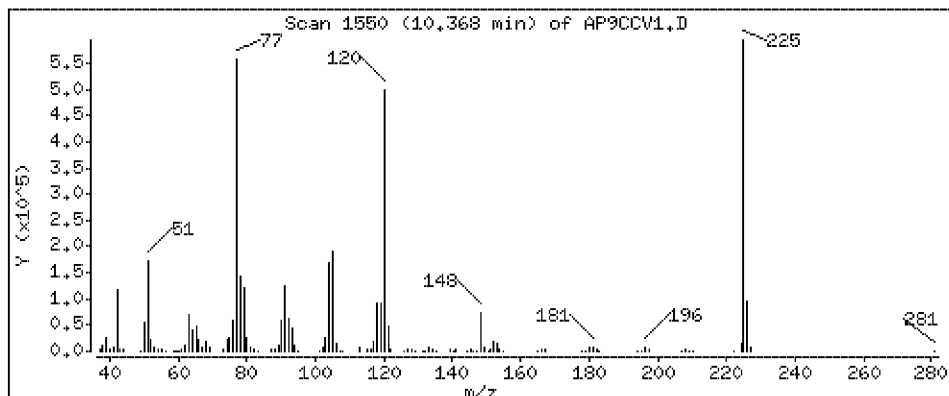
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

114 p-Dimethylamino azobenzene

Concentration: 46.3 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

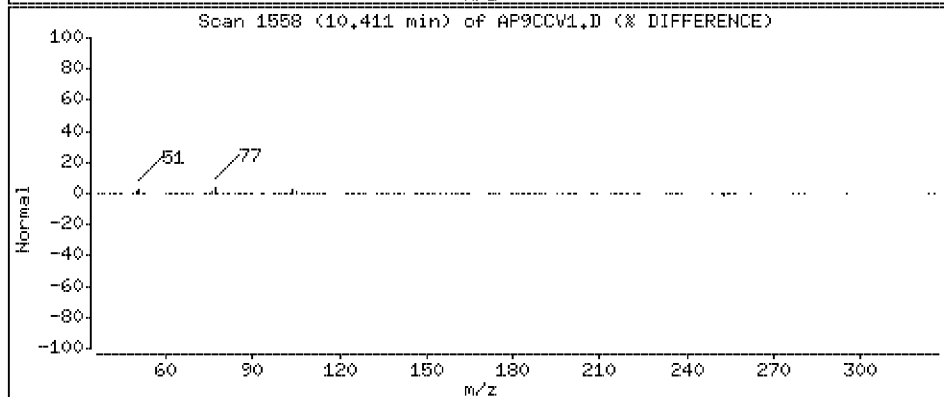
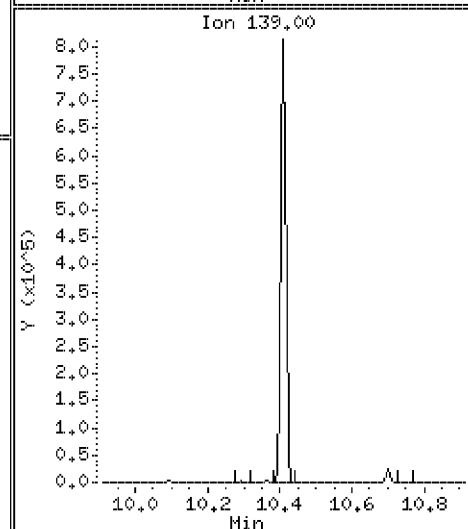
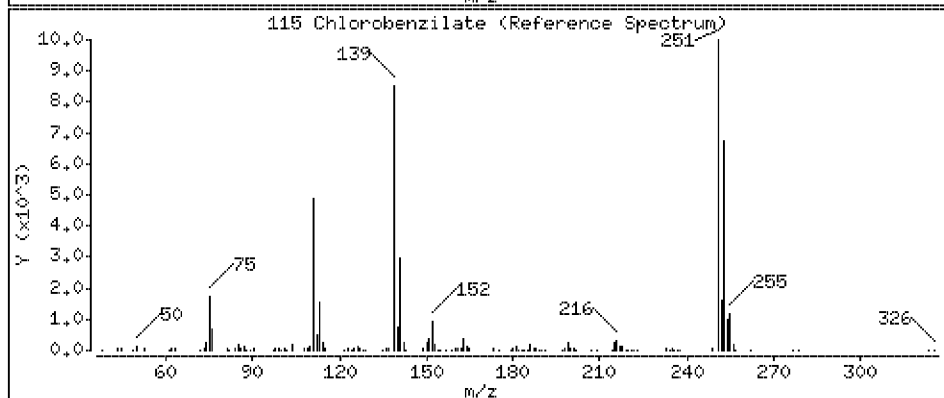
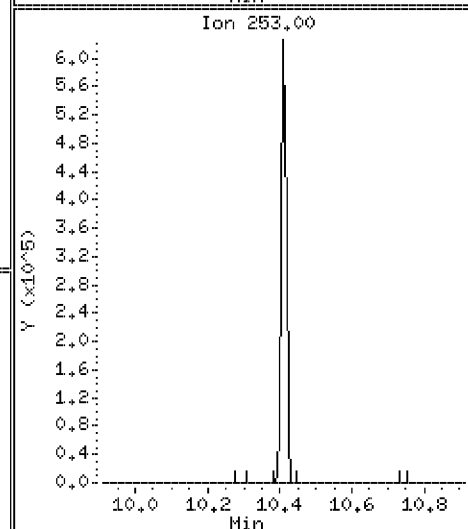
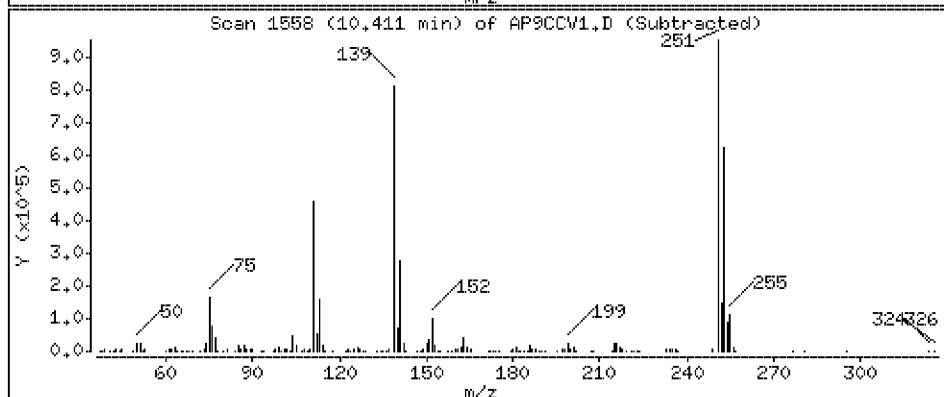
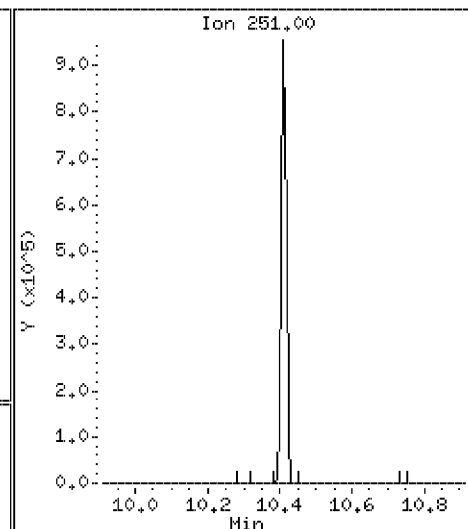
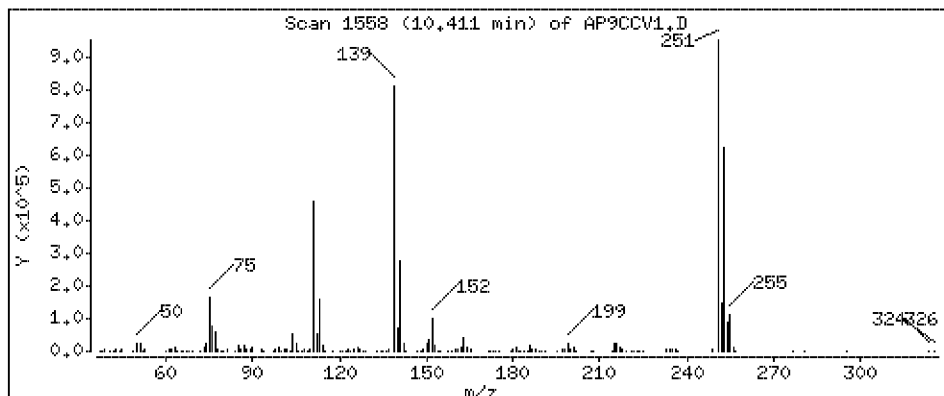
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

115 Chlorobenzilate

Concentration: 46.1 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

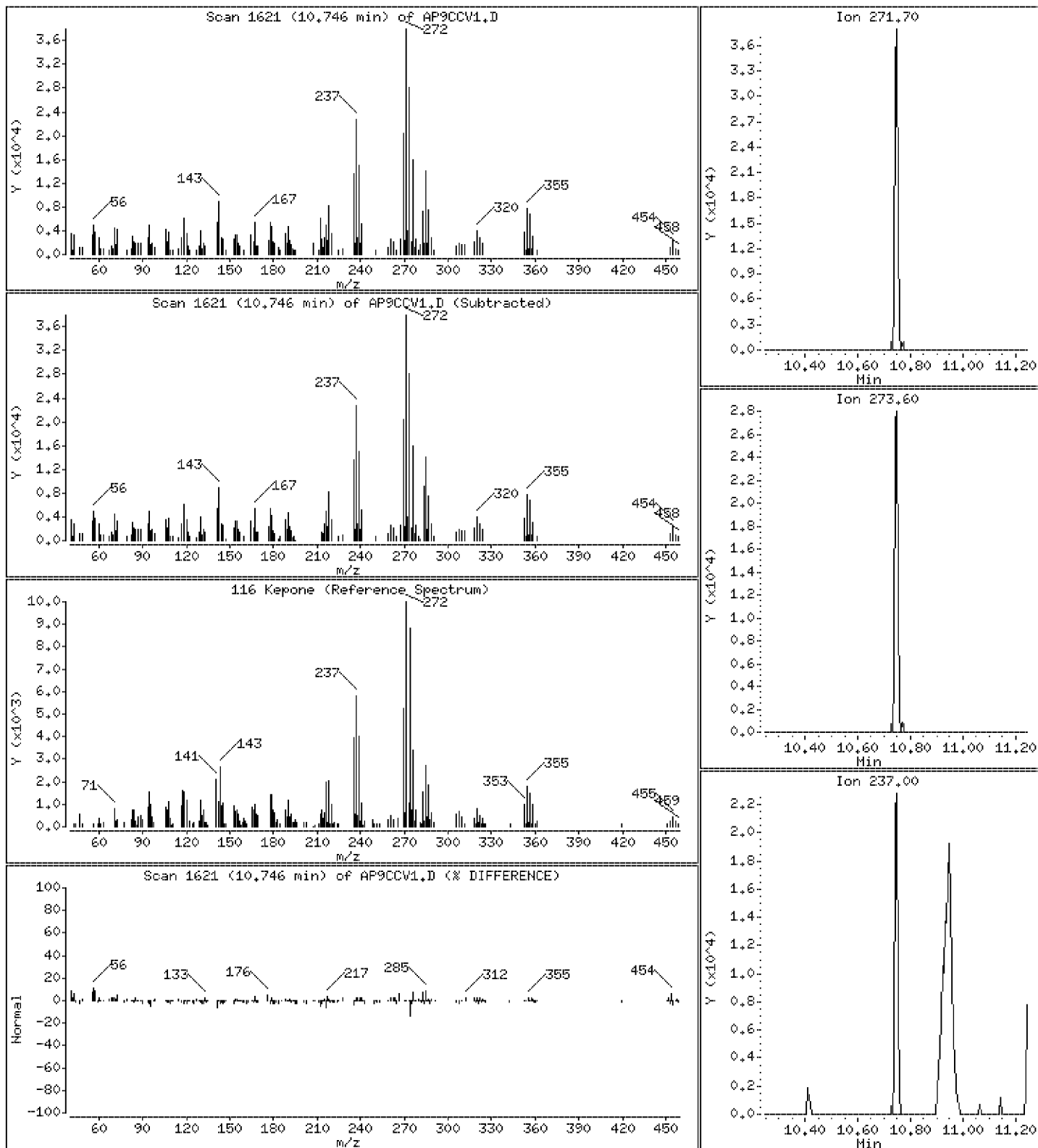
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

116 Kepone

Concentration: 11.2 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

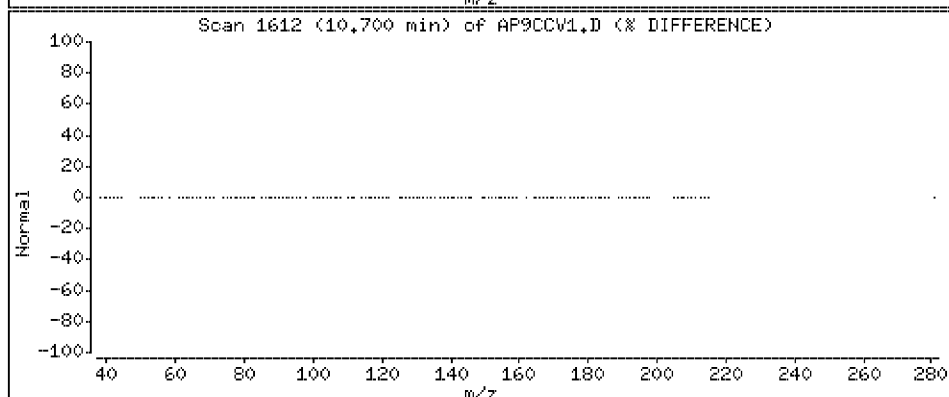
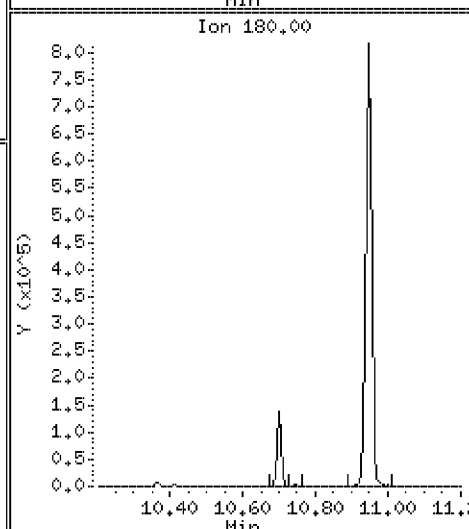
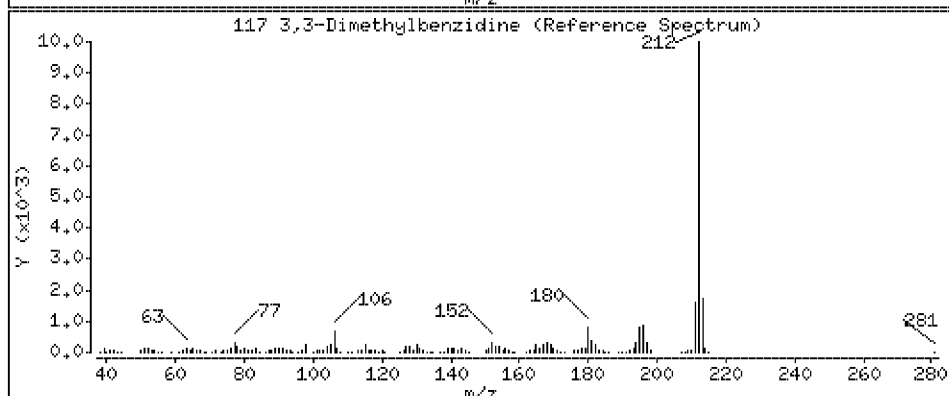
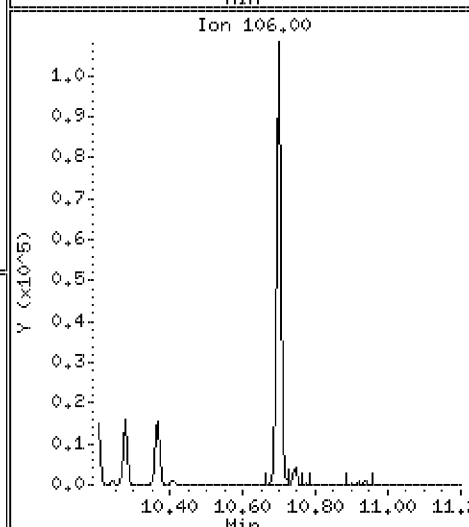
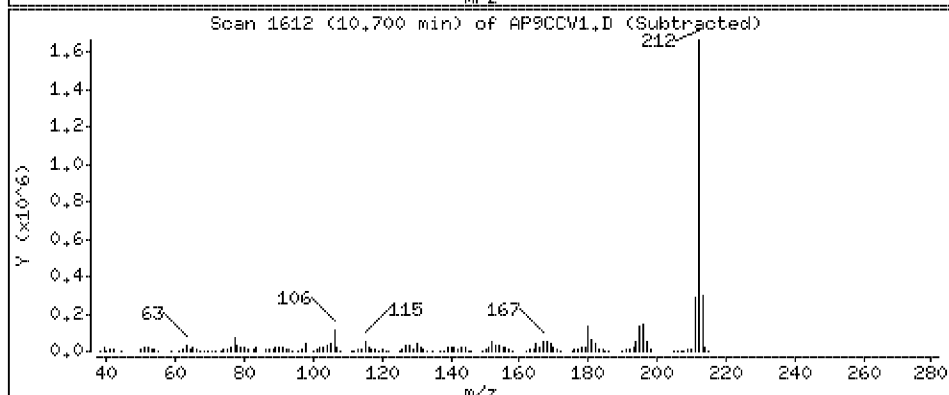
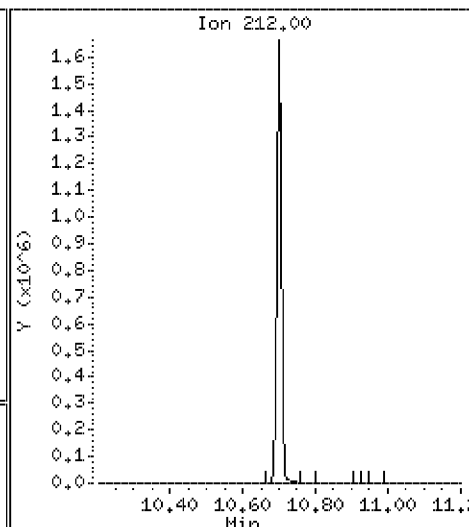
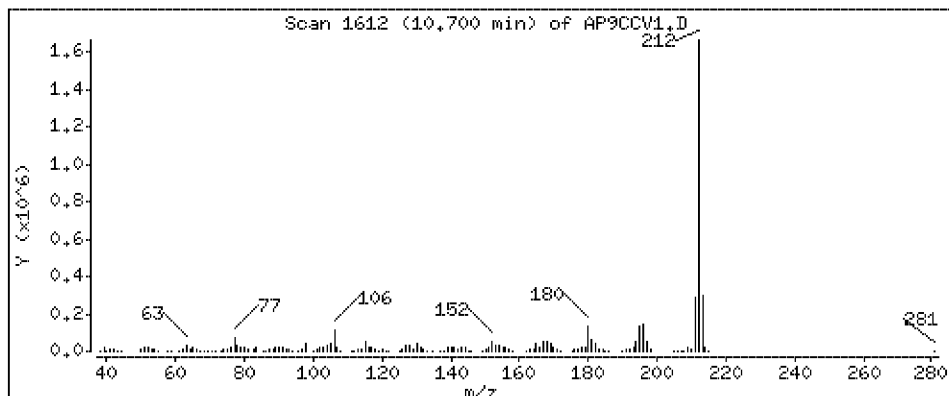
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

117 3,3-Dimethylbenzidine

Concentration: 46.3 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

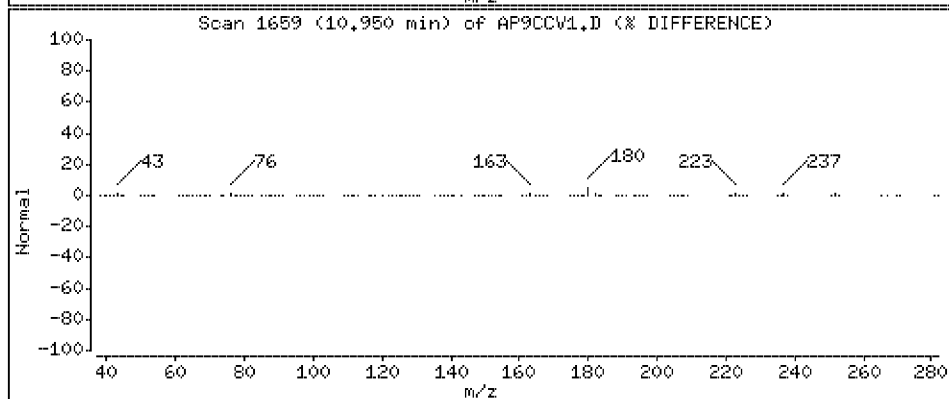
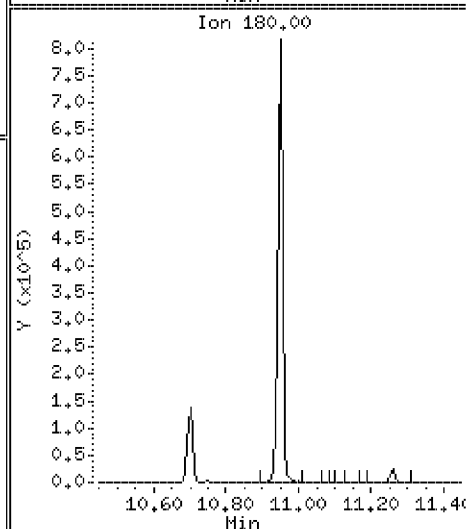
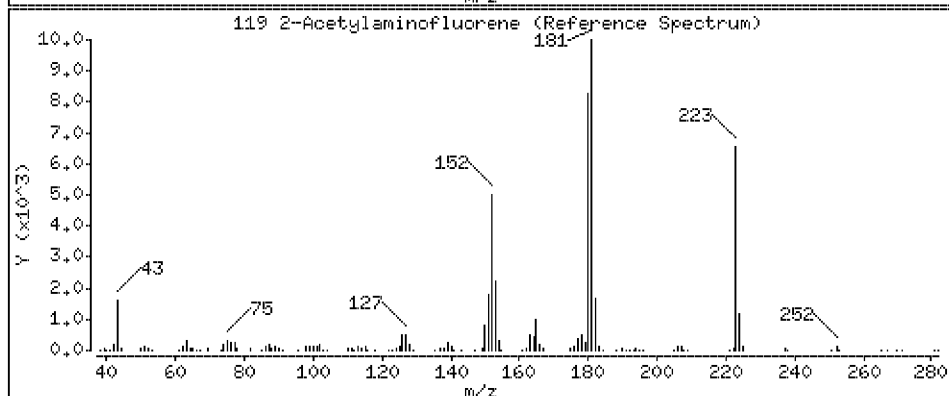
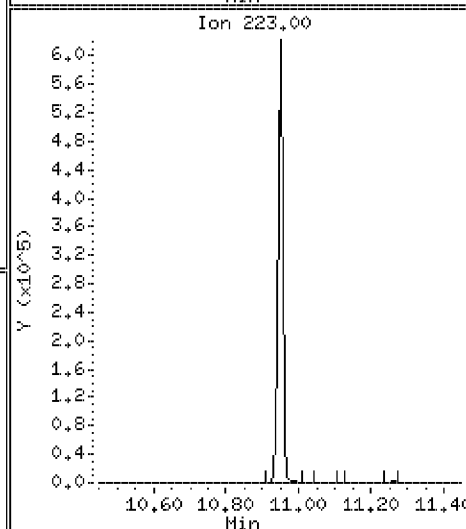
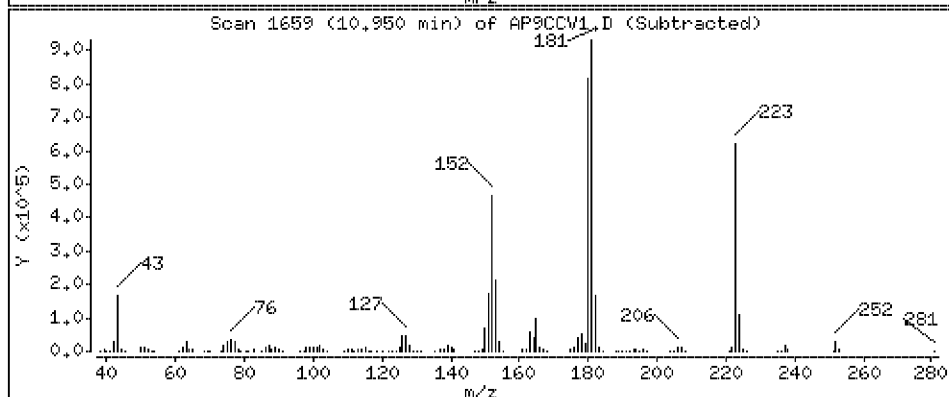
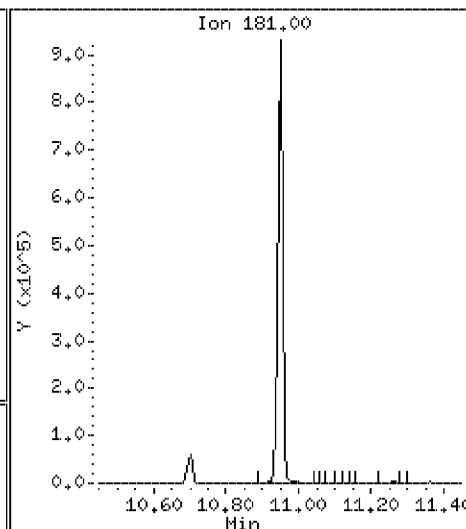
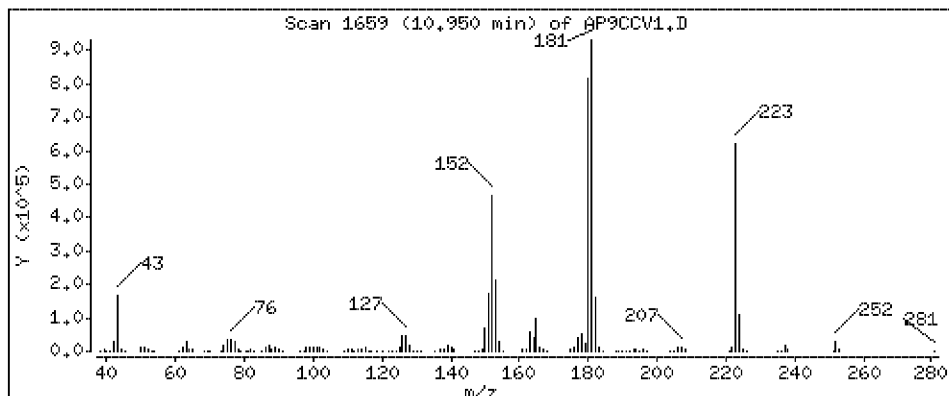
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

119 2-Acetylaminofluorene

Concentration: 47.9 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

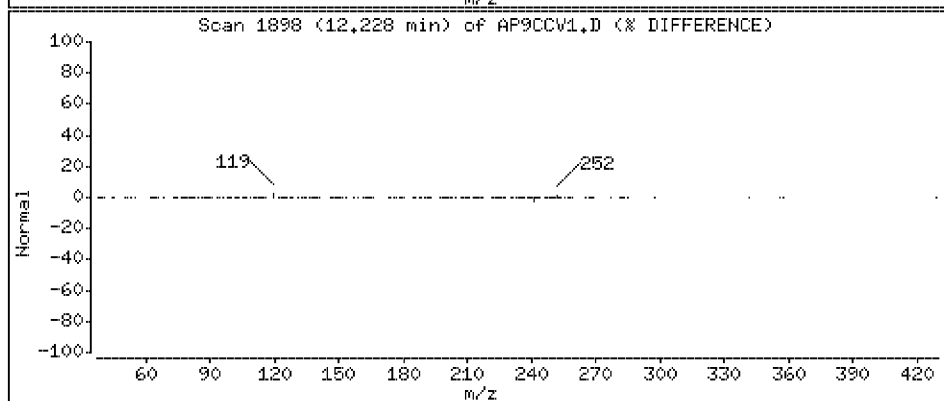
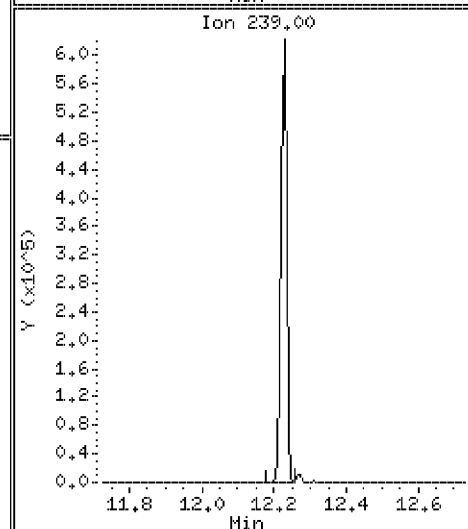
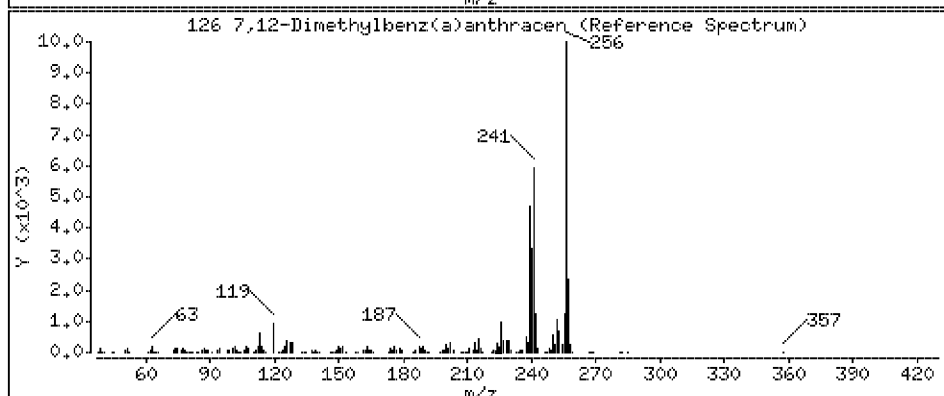
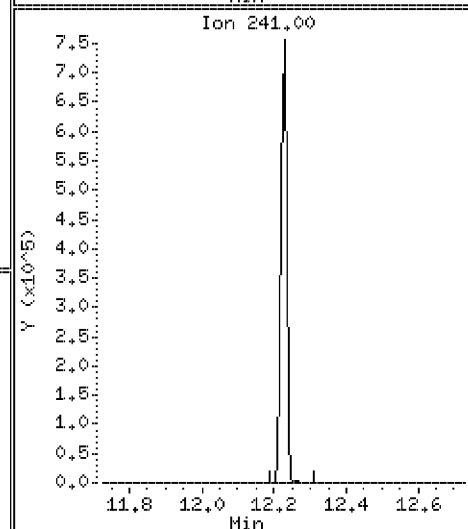
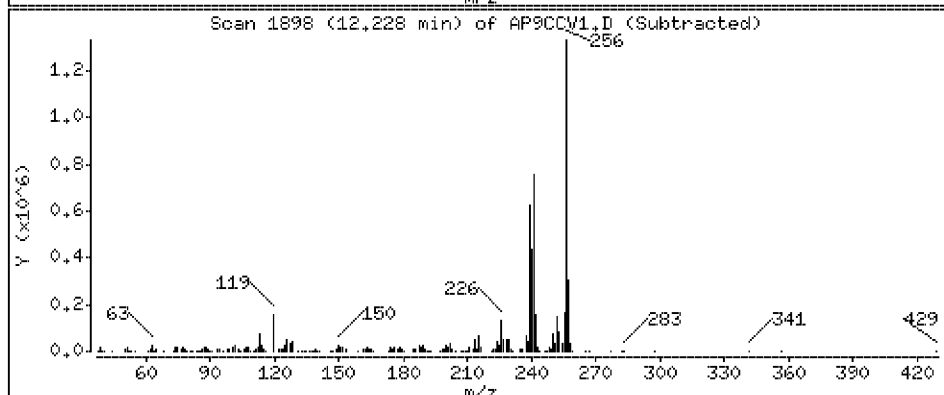
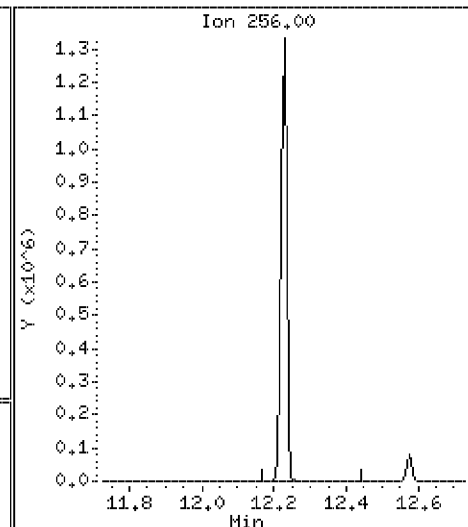
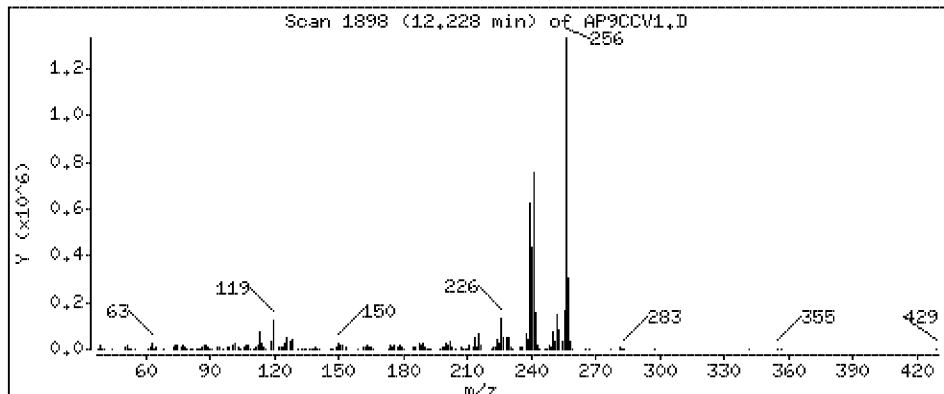
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

126 7,12-Dimethylbenz(a)anthracen

Concentration: 46.2 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

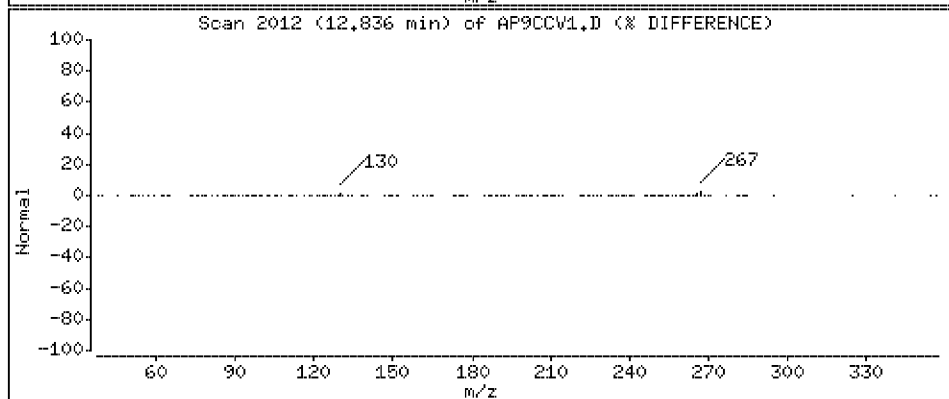
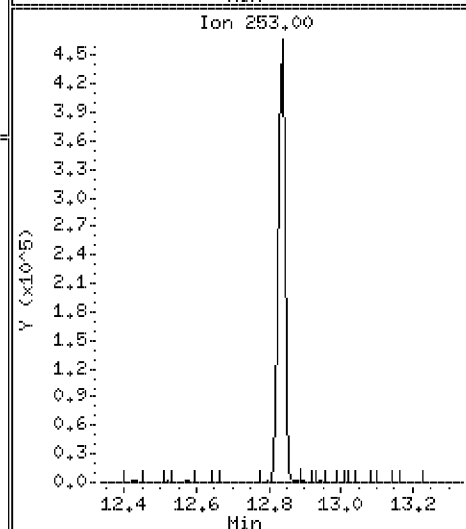
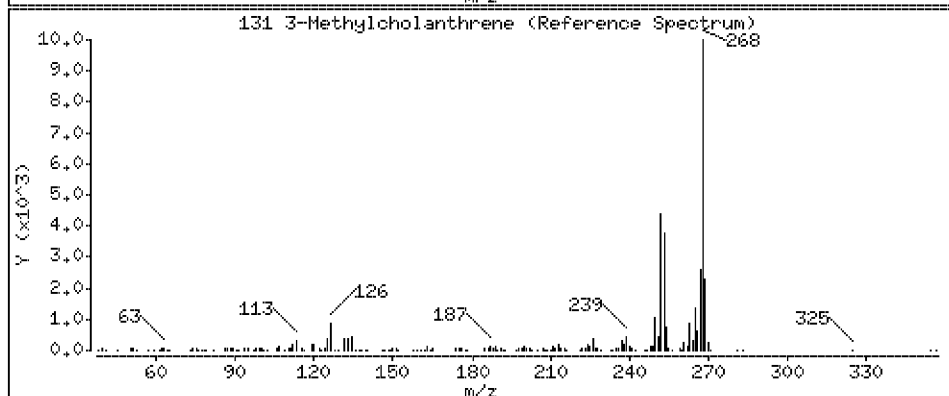
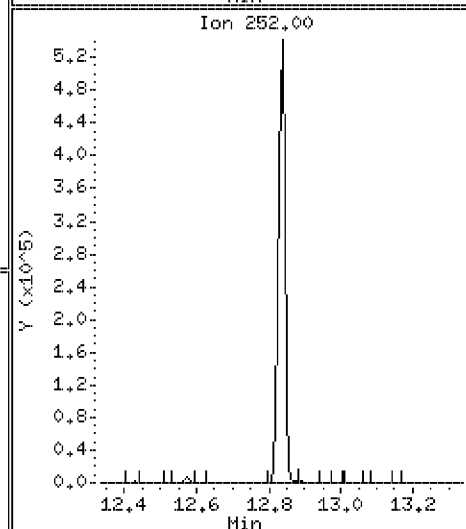
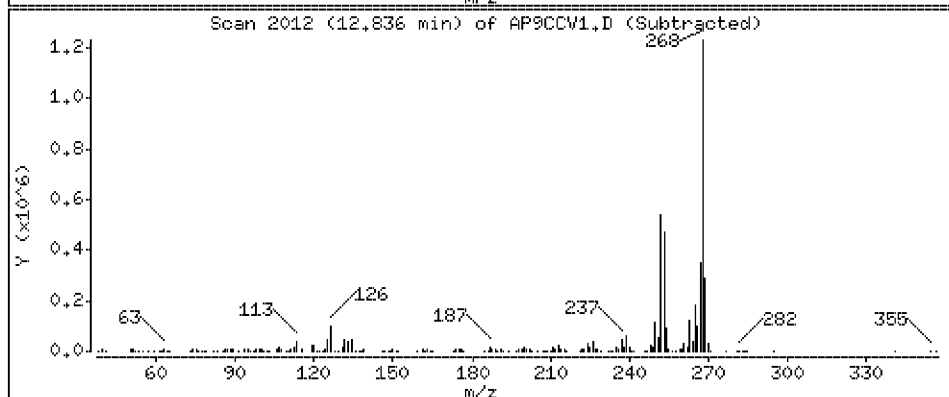
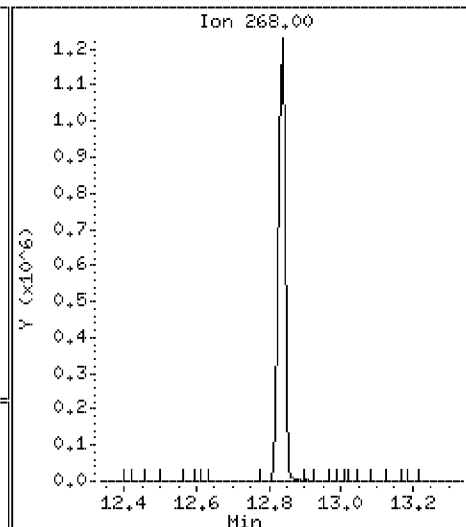
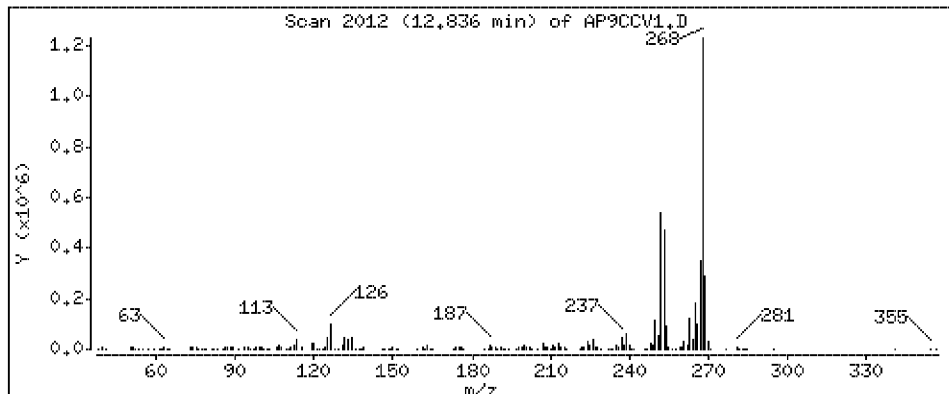
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

131 3-Methylcholanthrene

Concentration: 45.7 ug/l



Date : 04-MAY-2012 09:00

Client ID: AP9CCV1

Instrument: smsd03.i

Sample Info: 45958

Purge Volume: 1000.0

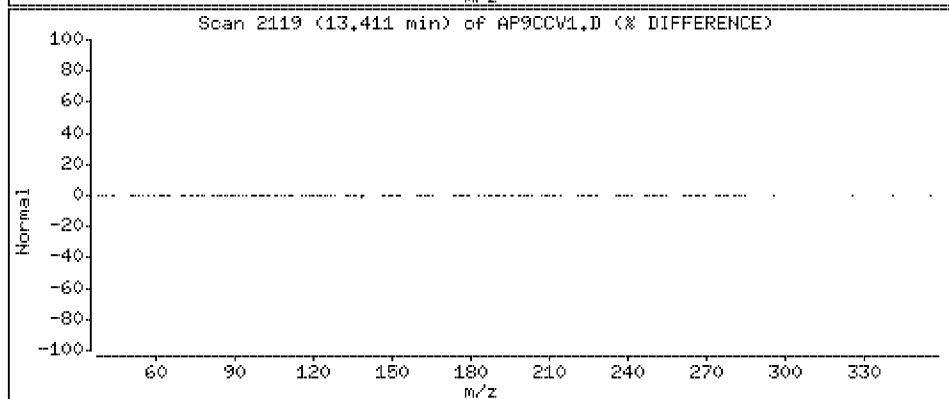
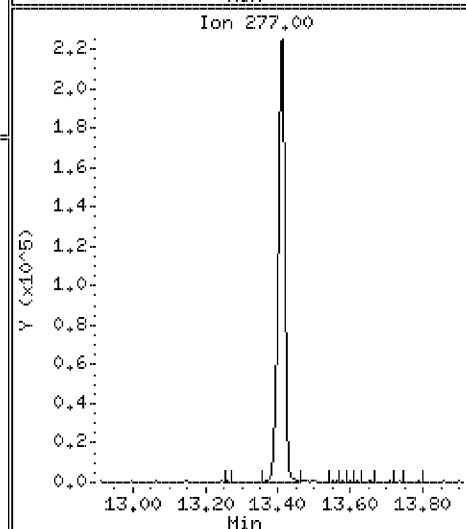
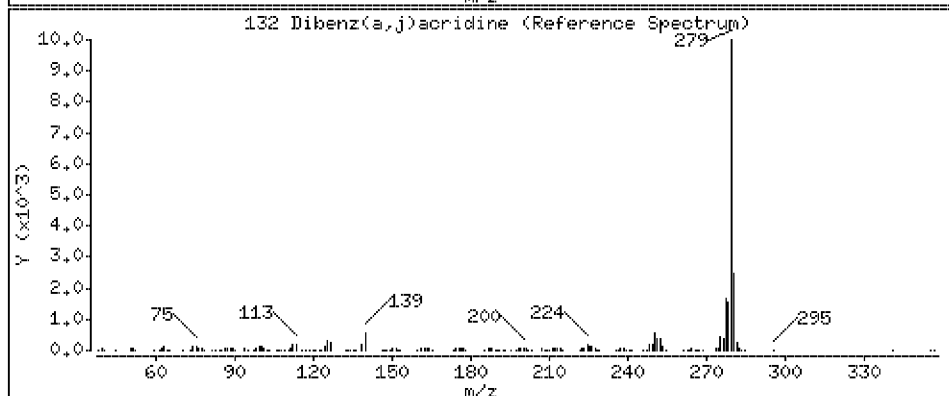
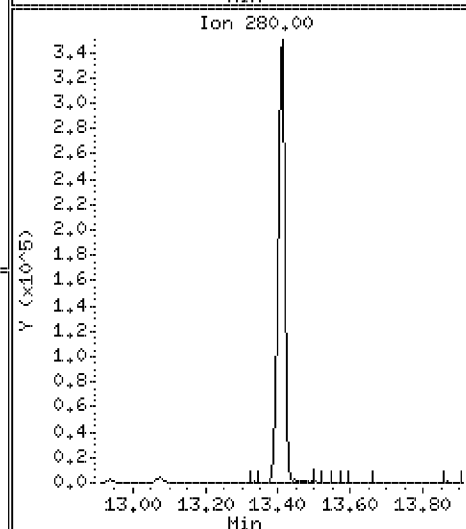
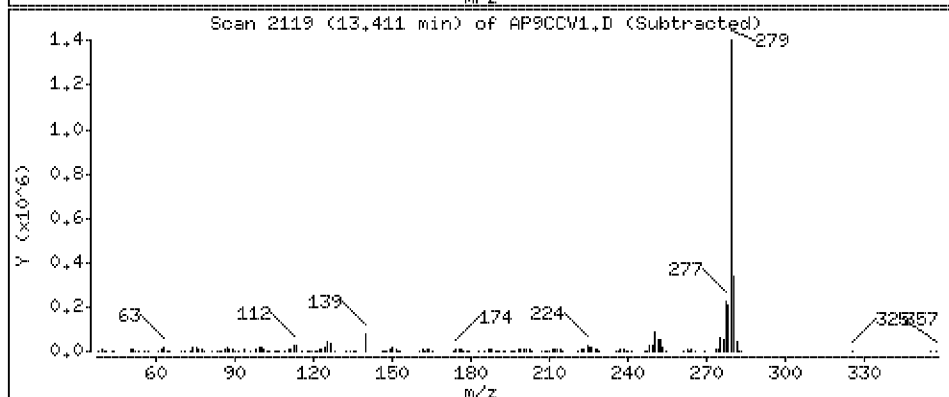
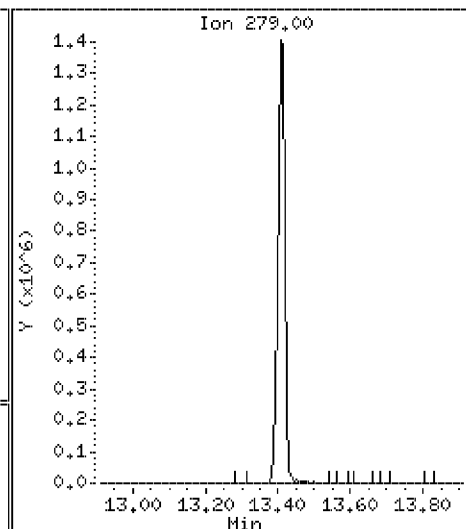
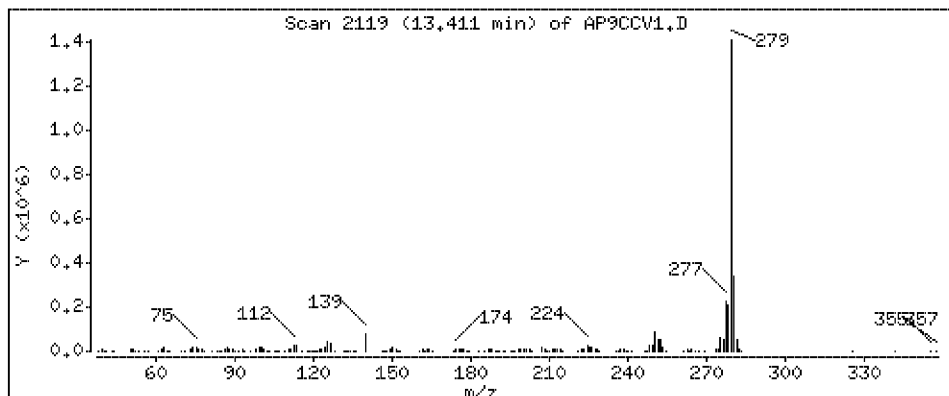
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

132 Dibenz(a,j)acridine

Concentration: 46.6 ug/l



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3050412.b\84301.D
 Lab Smp Id: 350584301 Client Smp ID: EPAFMC-SD-07
 Inj Date : 04-MAY-2012 11:45 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : SW350584301
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3050412.b\8270bcs.m
 Meth Date : 07-May-2012 17:35 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 18:17 Cal File: AP9CAL4.D
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.080	Weight of sample extracted (g)
M	24.500	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.351	4.352 (1.000)		152	296354	40.0000		80.00- 120.00	100.00	
4.351	4.352 (1.000)		115	187684			31.12- 91.12	63.33	
4.351	4.352 (1.000)		150	451591			117.02- 177.02	152.38	
* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.512	5.513 (1.000)		136	1000722	40.0000		80.00- 120.00	100.00	
5.512	5.513 (1.000)		68	50261			0.00- 35.11	5.02	
* 70 Acenaphthene-d10 CAS #: 15067-26-2									
7.208	7.208 (1.000)		164	692601	40.0000		80.00- 120.00	100.00	
7.208	7.208 (1.000)		162	663197			66.36- 126.36	95.75	
7.207	7.208 (1.000)		160	303901			14.03- 74.03	43.88	
* 100 Phenanthrene-d10 CAS #: 1517-22-2									
8.663	8.665 (1.000)		188	1363573	40.0000		80.00- 120.00	100.00	
8.662	8.665 (1.000)		94	81375			0.00- 36.25	5.97	
8.661	8.665 (1.000)		80	101856			0.00- 37.67	7.47	
* 121 Chrysene-d12 CAS #: 1719-03-5									
11.260	11.259 (1.000)		240	1867833	40.0000		80.00- 120.00	100.00	

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET	RANGE	RATIO
====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 121 Chrysene-d12 (continued)									
11.259	11.259	(1.000)	120	98560			0.00-	34.90	5.28
11.260	11.259	(1.000)	236	495737			0.00-	56.56	26.54

* 130 Perylene-d12						CAS #: 1520-96-3			
12.593	12.576	(1.000)	264	1841058	40.0000		80.00-	120.00	100.00
12.594	12.576	(1.000)	260	456468			0.00-	54.67	24.79
12.594	12.576	(1.000)	265	443648			0.00-	53.09	24.10

Date : 04-MAY-2012 11:45

Client ID: EPAFMC-SD-07

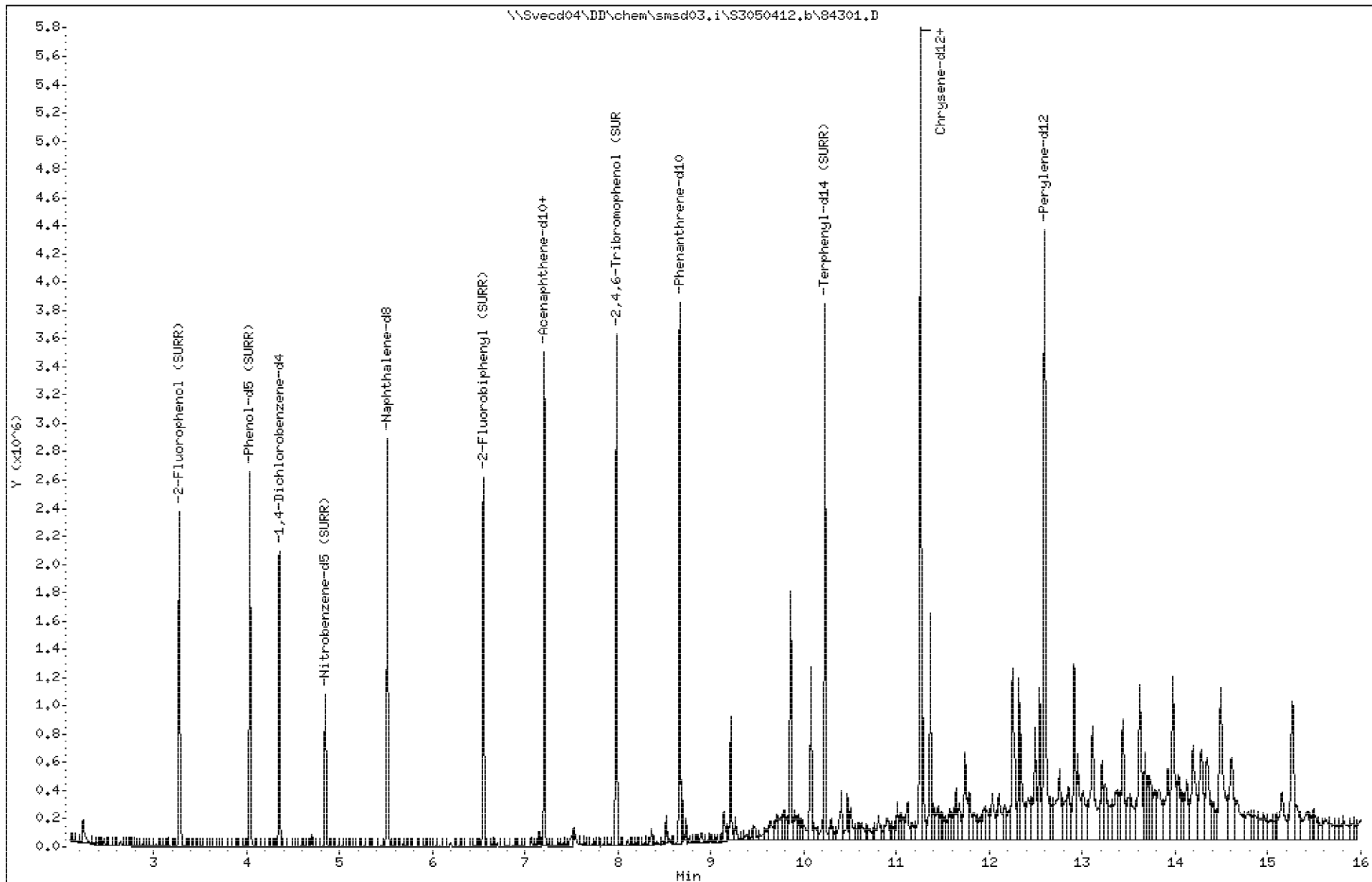
Sample Info: SN350584301

Instrument: smsd03.i

Operator: PEL

Column diameter: 0.25

Column phase: HPMS-5



Date : 04-MAY-2012 11:45

Client ID: EPAFMC-SD-07

Instrument: smsd03.i

Sample Info: SW350584301

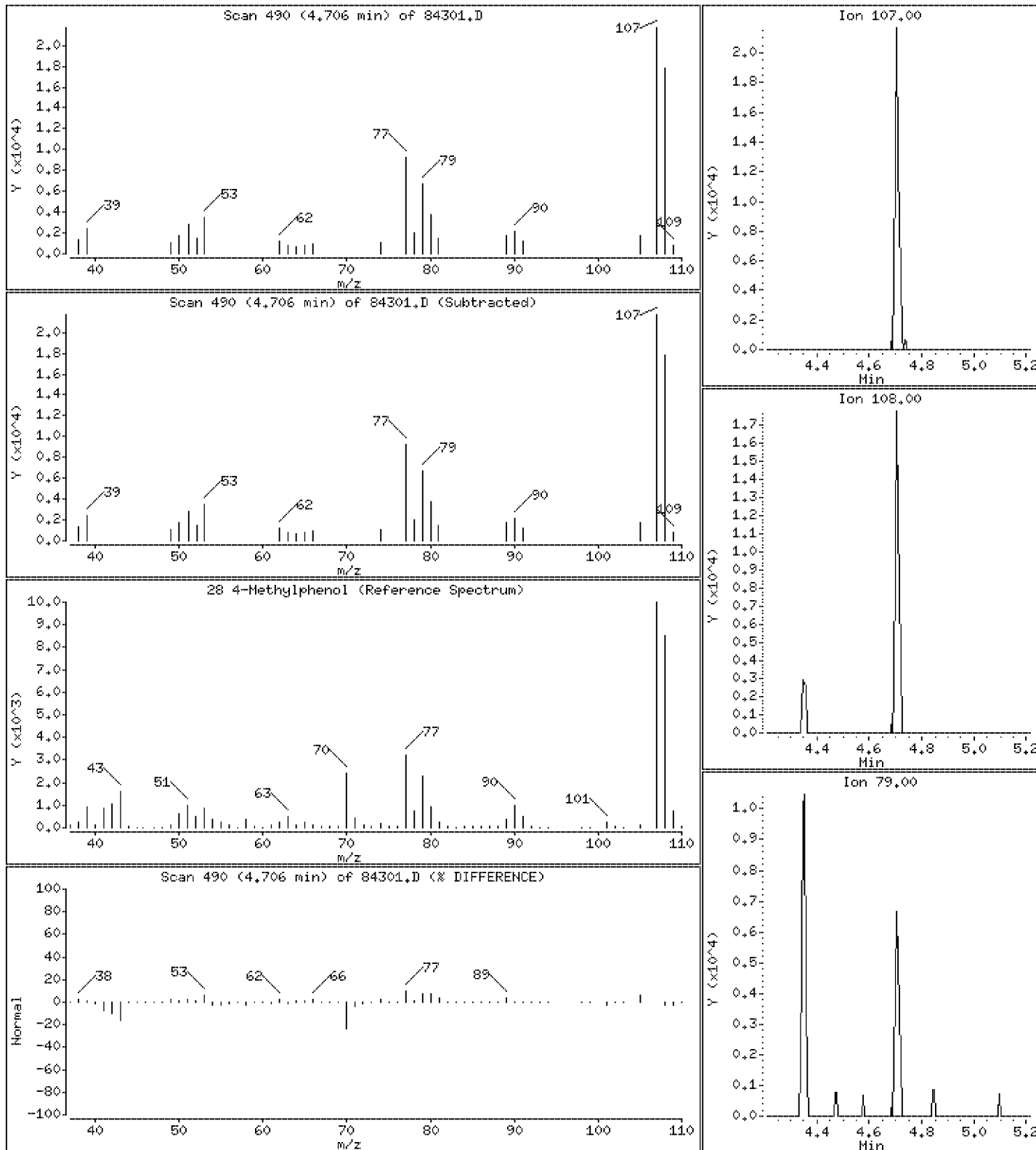
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

28 4-Methylphenol

Concentration: 88.1 ug/kg



Date : 04-MAY-2012 11:45

Client ID: EPAFMC-SD-07

Instrument: smsd03.i

Sample Info: SW350584301

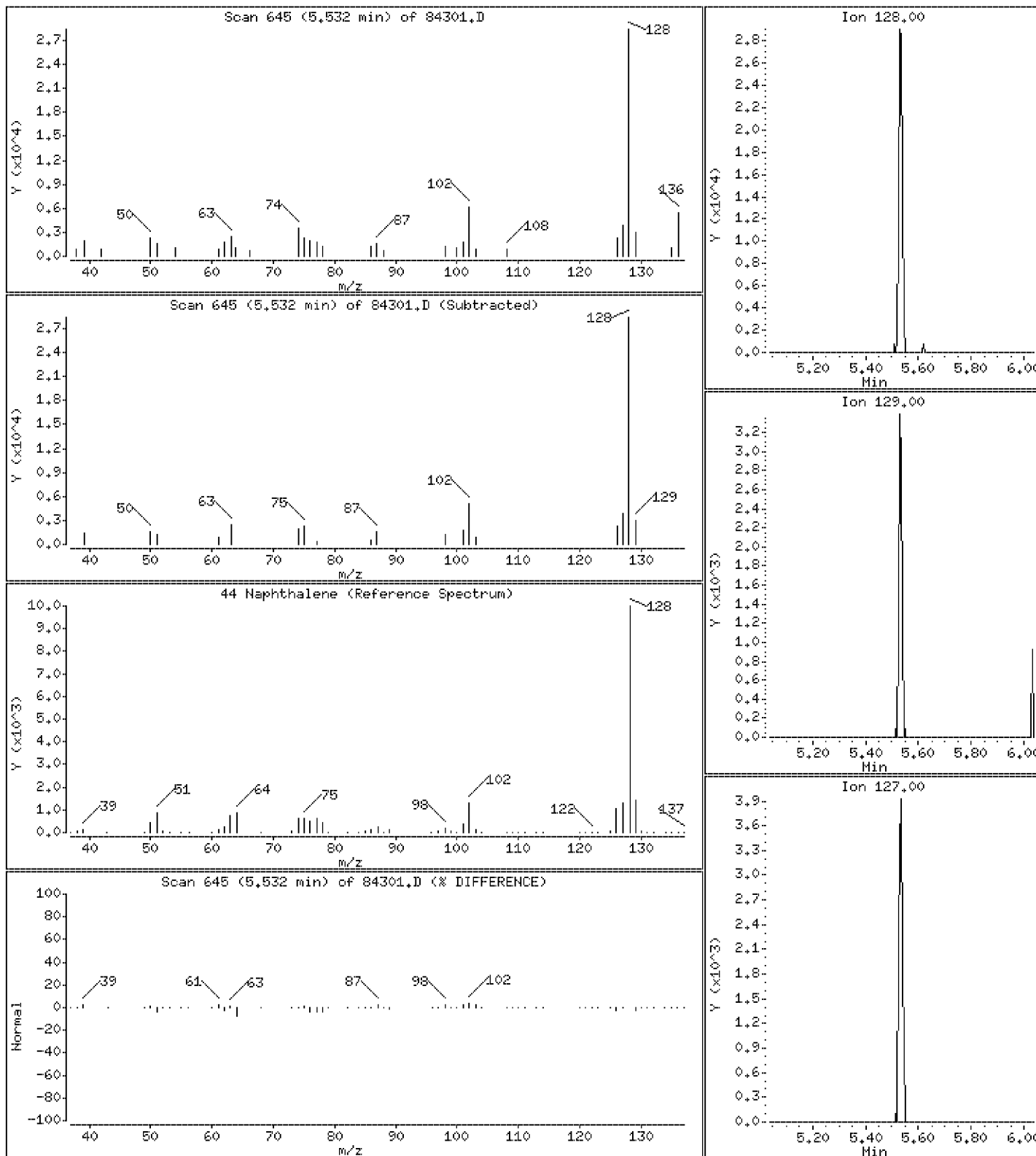
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

44 Naphthalene

Concentration: 57.2 ug/kg



Date : 04-MAY-2012 11:45

Client ID: EPAFMC-SD-07

Instrument: smsd03.i

Sample Info: SW350584301

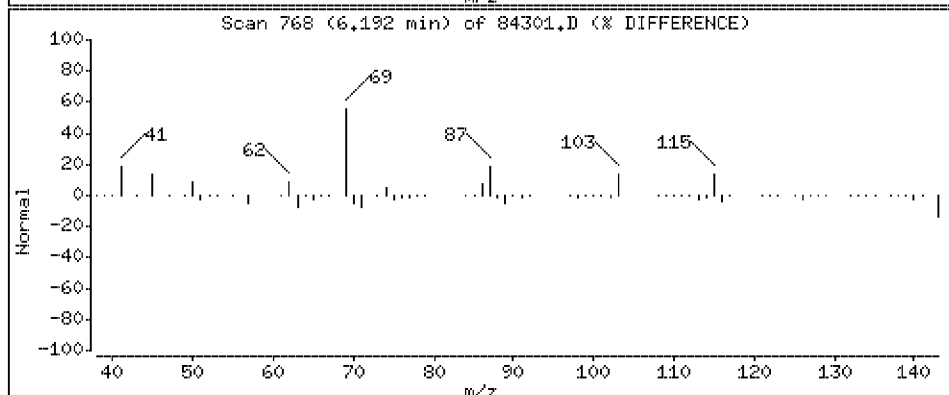
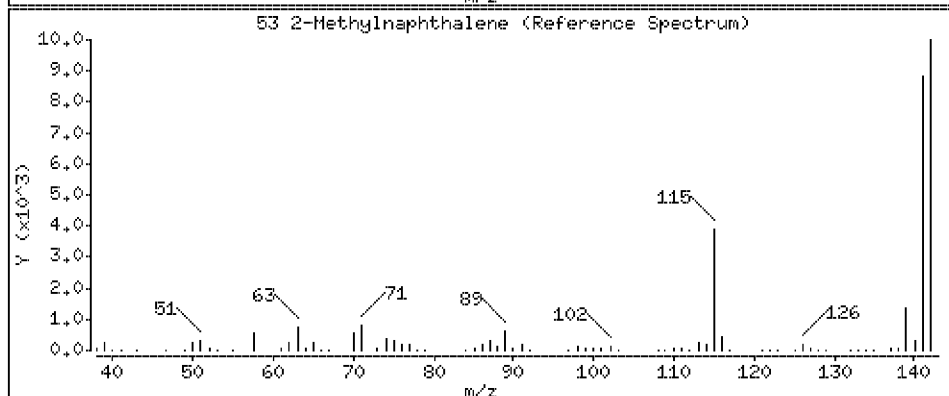
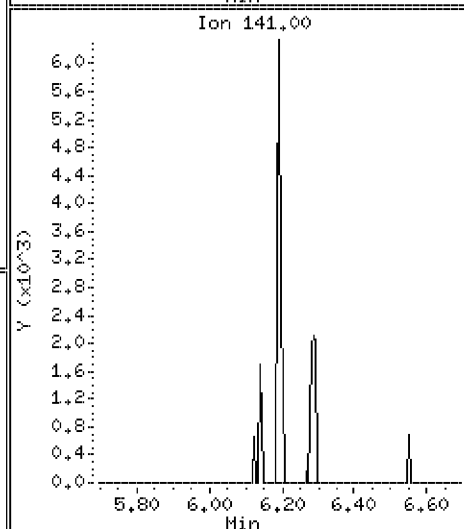
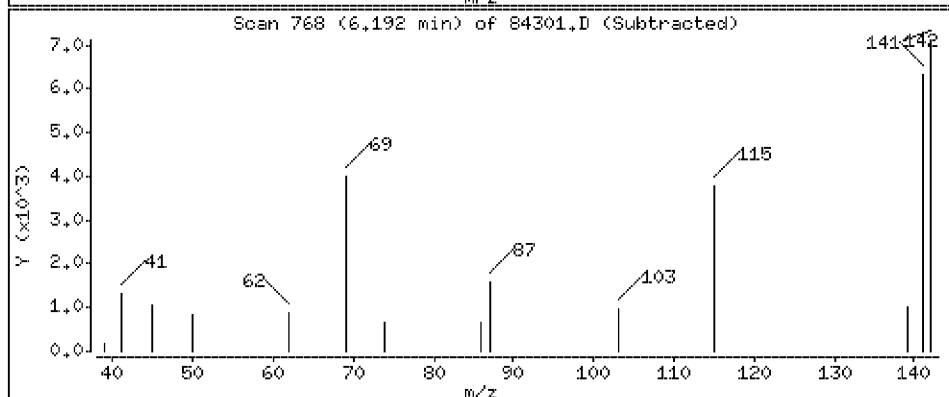
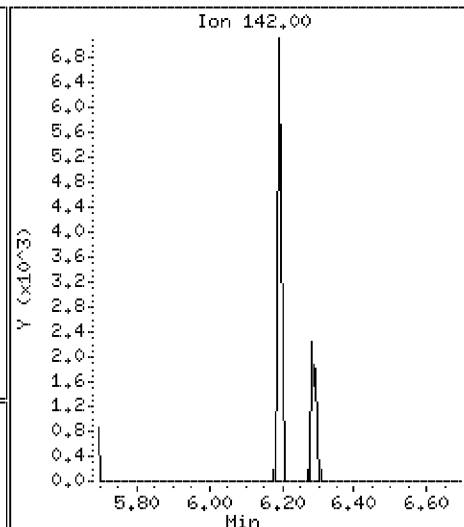
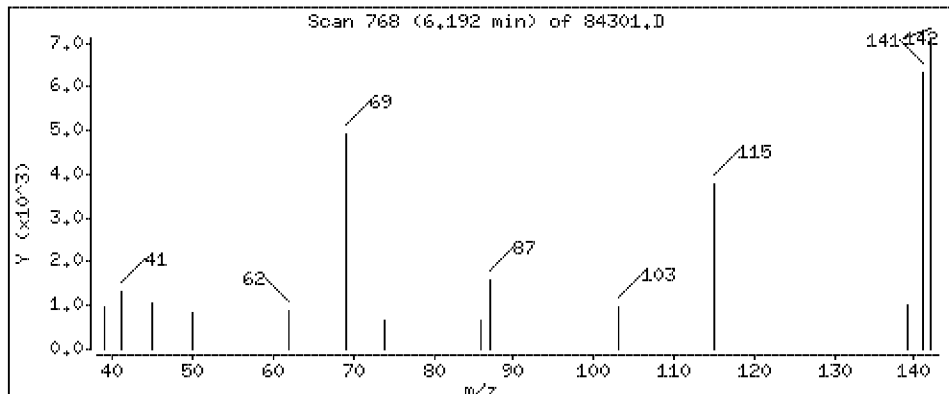
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

53 2-Methylnaphthalene

Concentration: 14.2 ug/kg



Date : 04-MAY-2012 11:45

Client ID: EPAFMC-SD-07

Instrument: smsd03.i

Sample Info: SW350584301

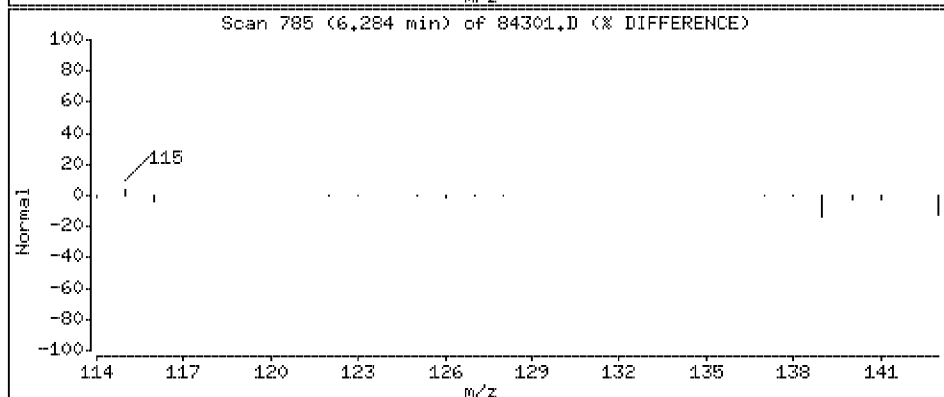
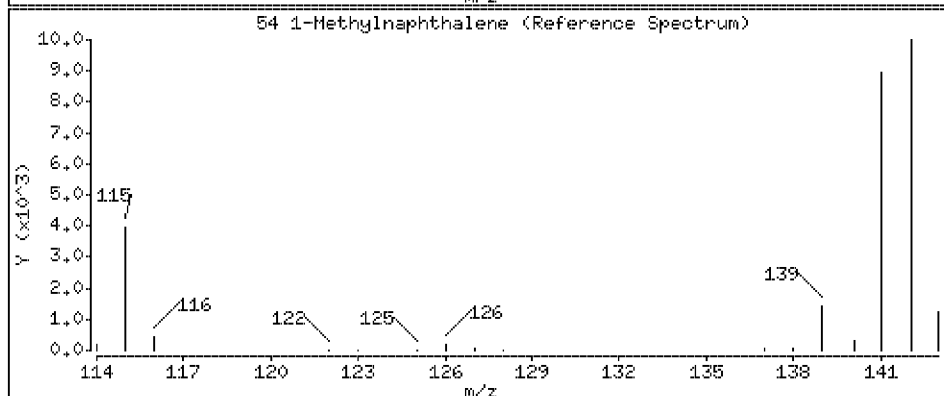
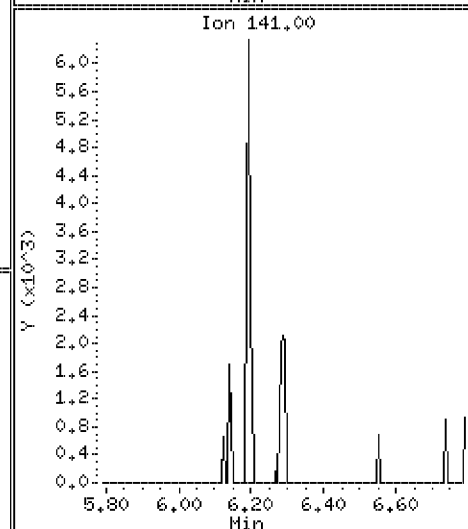
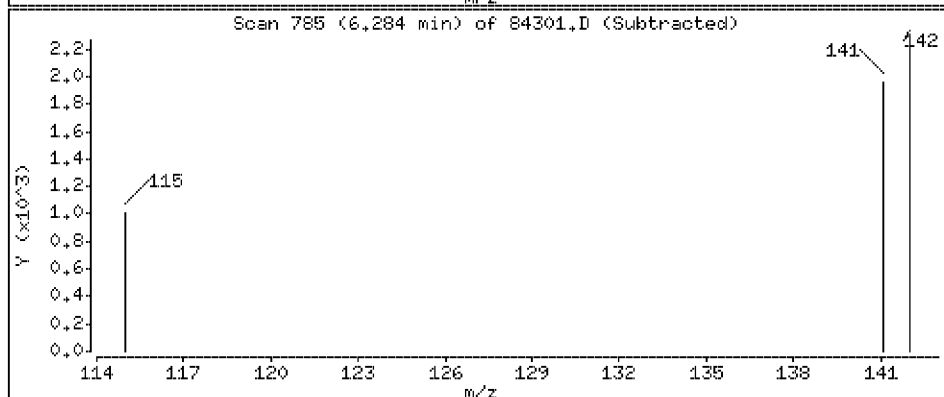
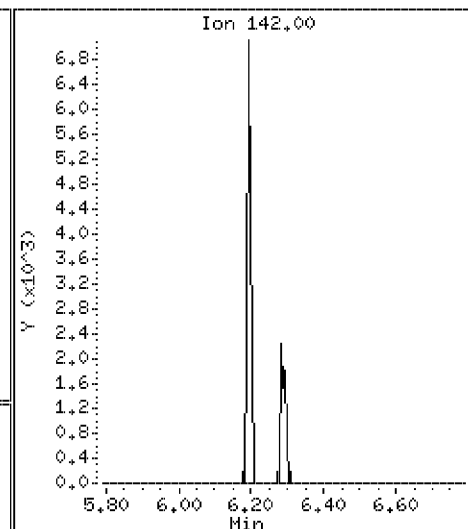
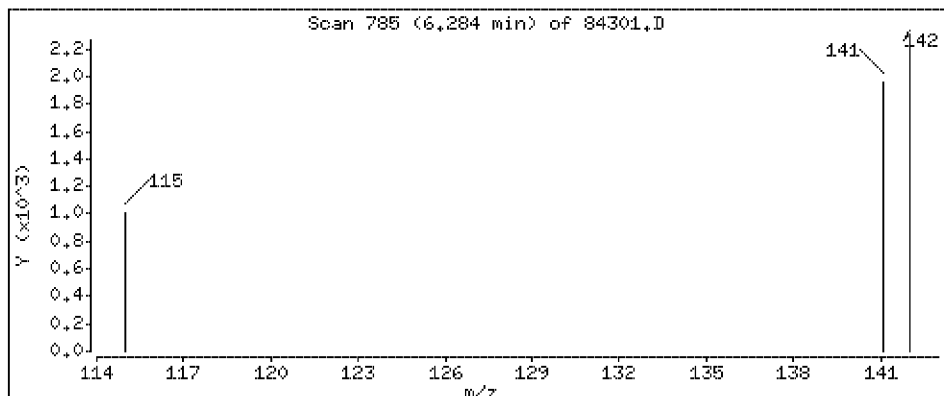
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

54 1-Methylnaphthalene

Concentration: 6.3 ug/kg



Date : 04-MAY-2012 11:45

Client ID: EPAFMC-SD-07

Instrument: smsd03.i

Sample Info: SW350584301

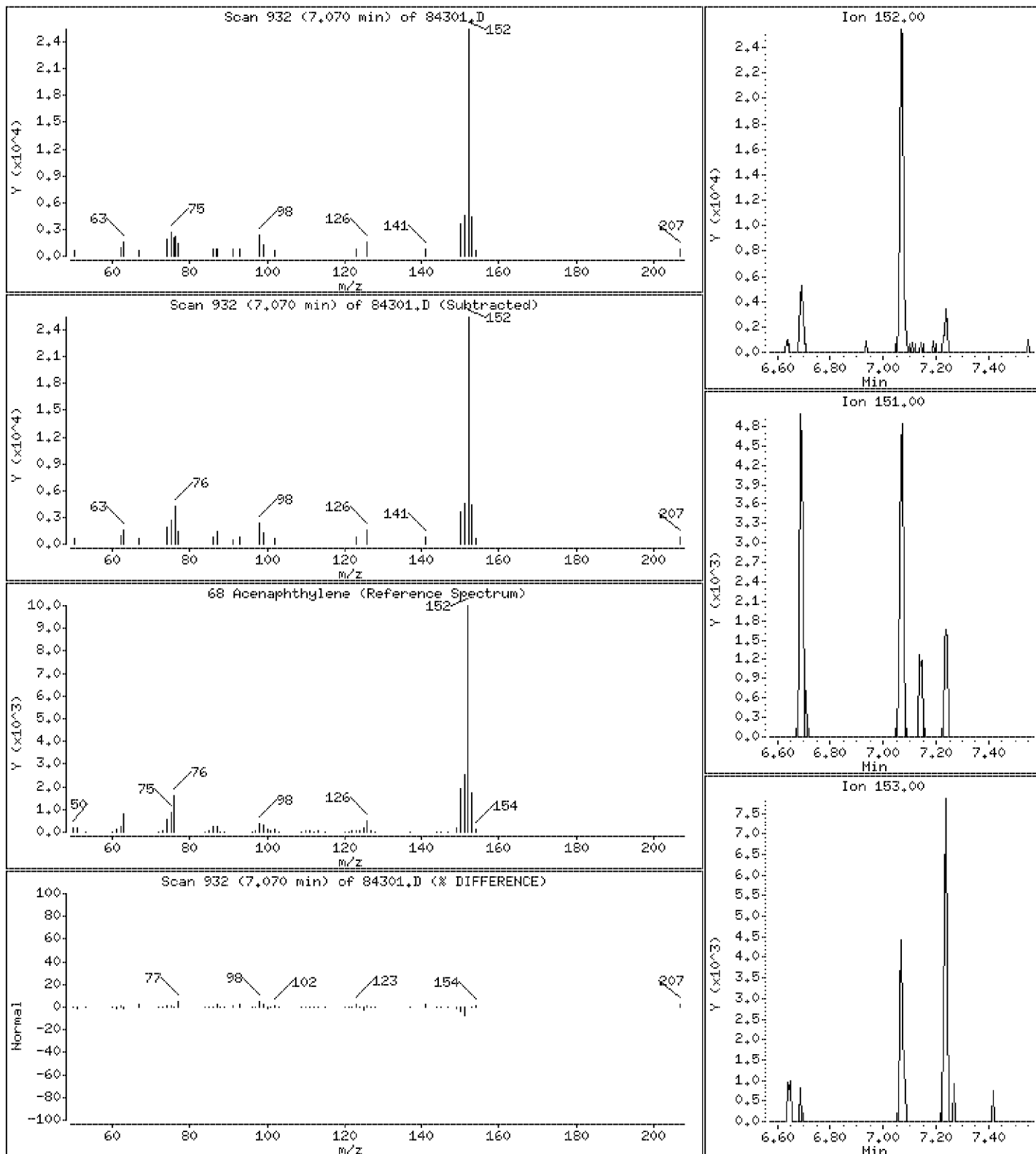
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

68 Acenaphthylene

Concentration: 42.6 ug/kg



Date : 04-MAY-2012 11:45

Client ID: EPAFMC-SD-07

Instrument: smsd03.i

Sample Info: SW350584301

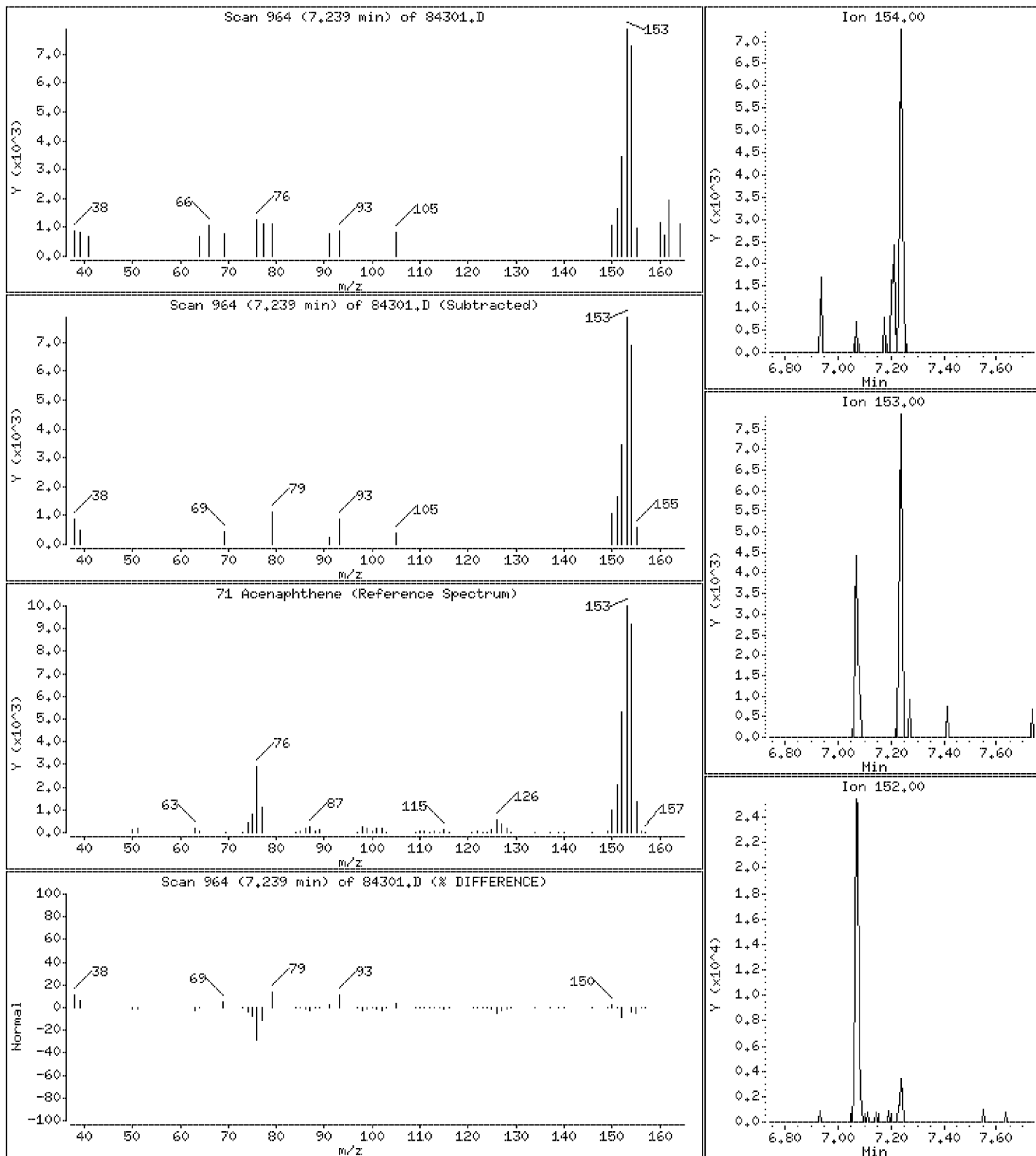
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

71 Acenaphthene

Concentration: 16.2 ug/kg



Date : 04-MAY-2012 11:45

Client ID: EPAFMC-SD-07

Instrument: smsd03.i

Sample Info: SW350584301

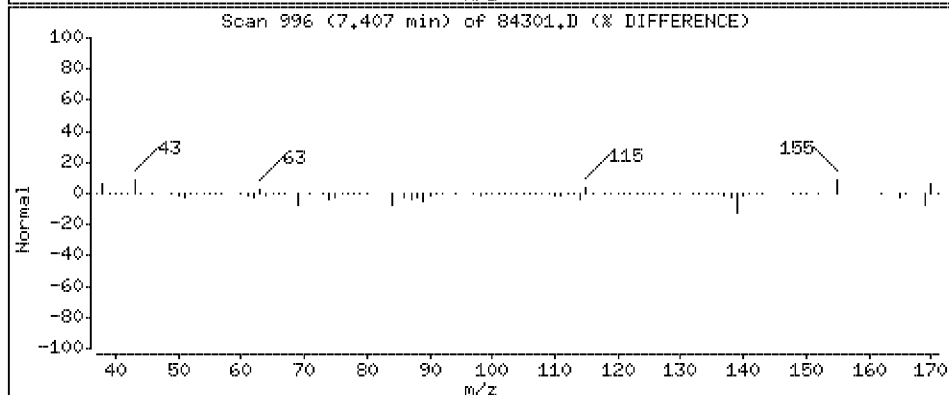
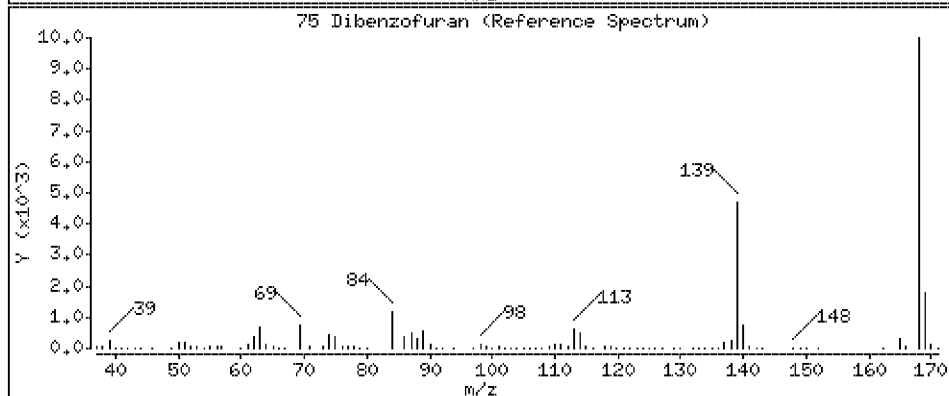
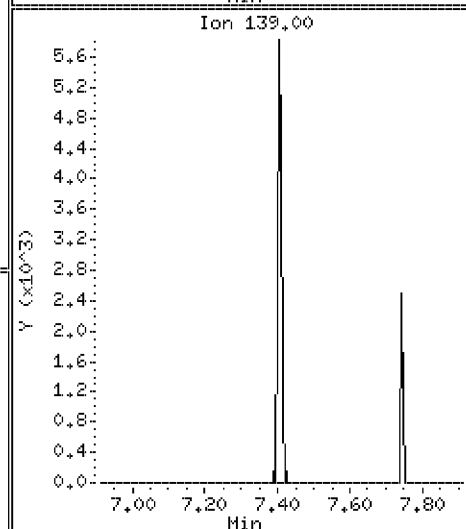
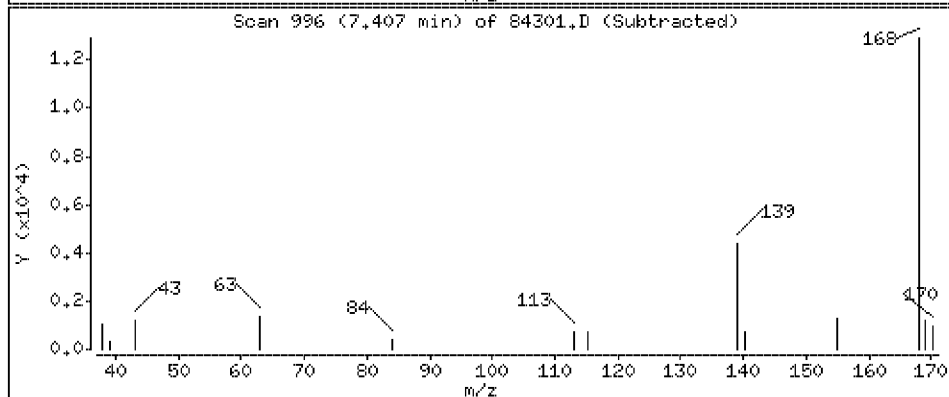
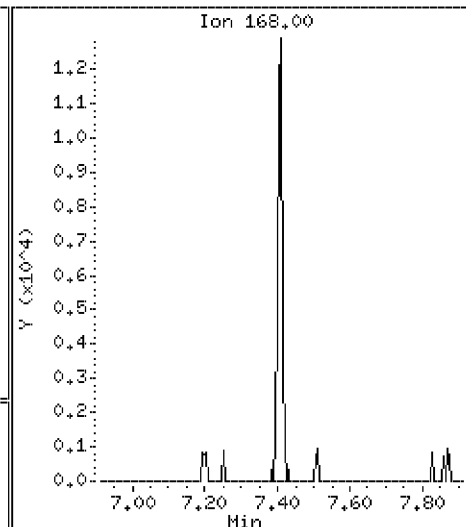
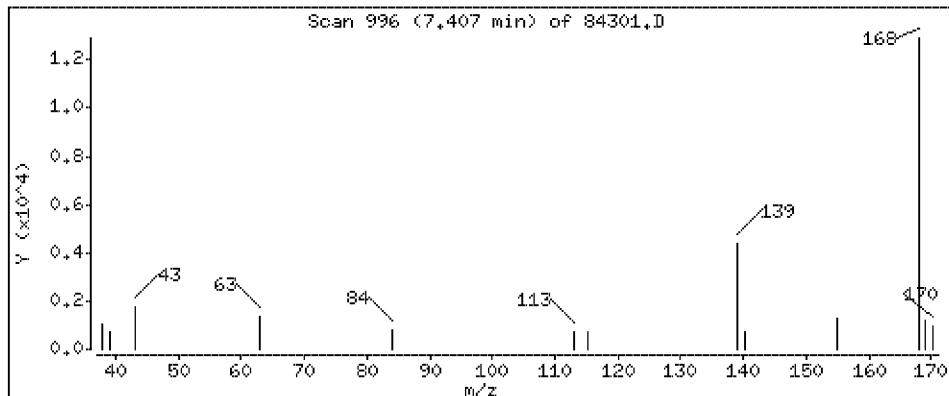
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

75 Dibenzofuran

Concentration: 20.1 ug/kg



Date : 04-MAY-2012 11:45

Client ID: EPAFMC-SD-07

Instrument: smsd03.i

Sample Info: SW350584301

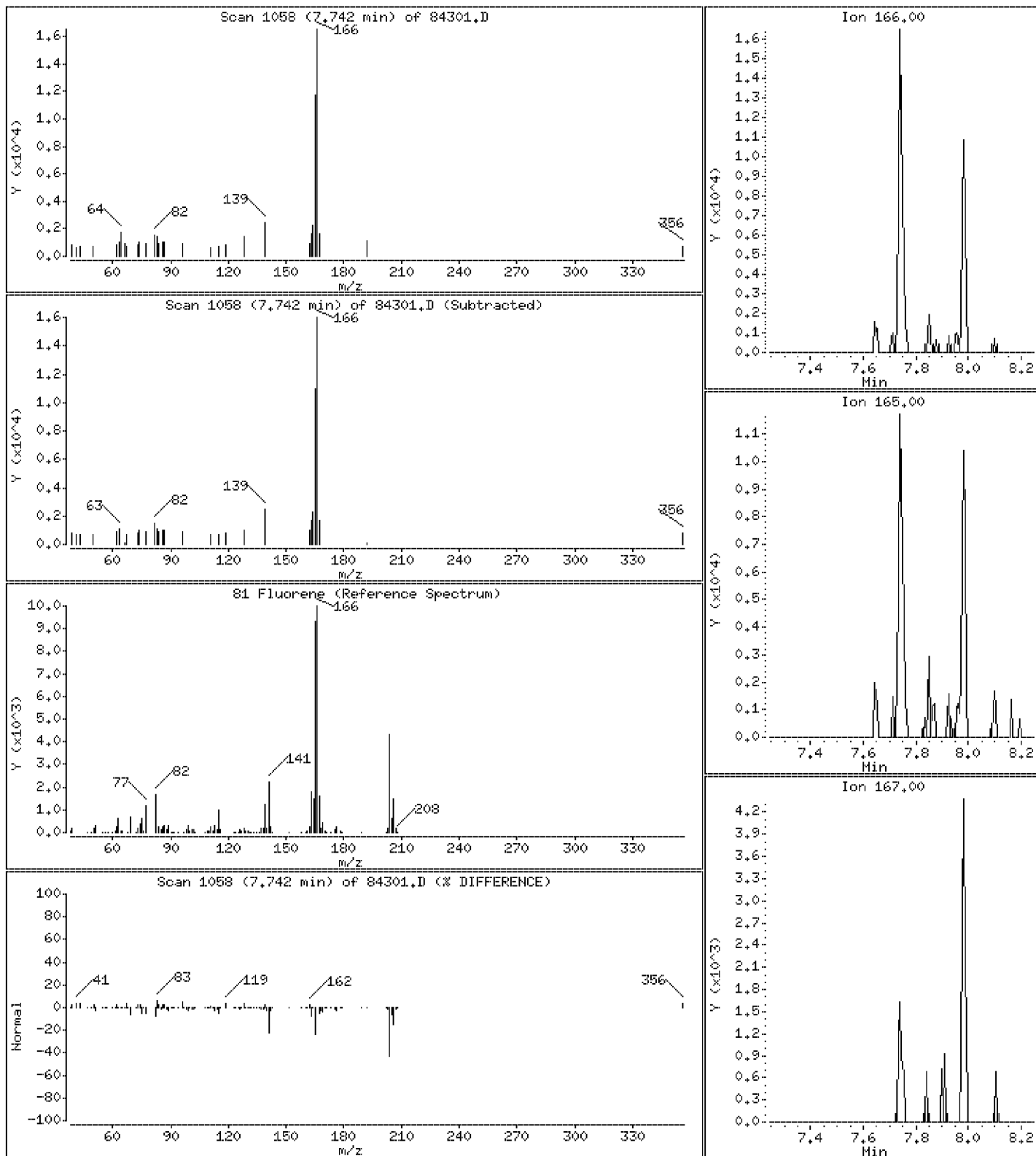
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

81 Fluorene

Concentration: 30.0 ug/kg



Date : 04-MAY-2012 11:45

Client ID: EPAFMC-SD-07

Instrument: smsd03.i

Sample Info: SW350584301

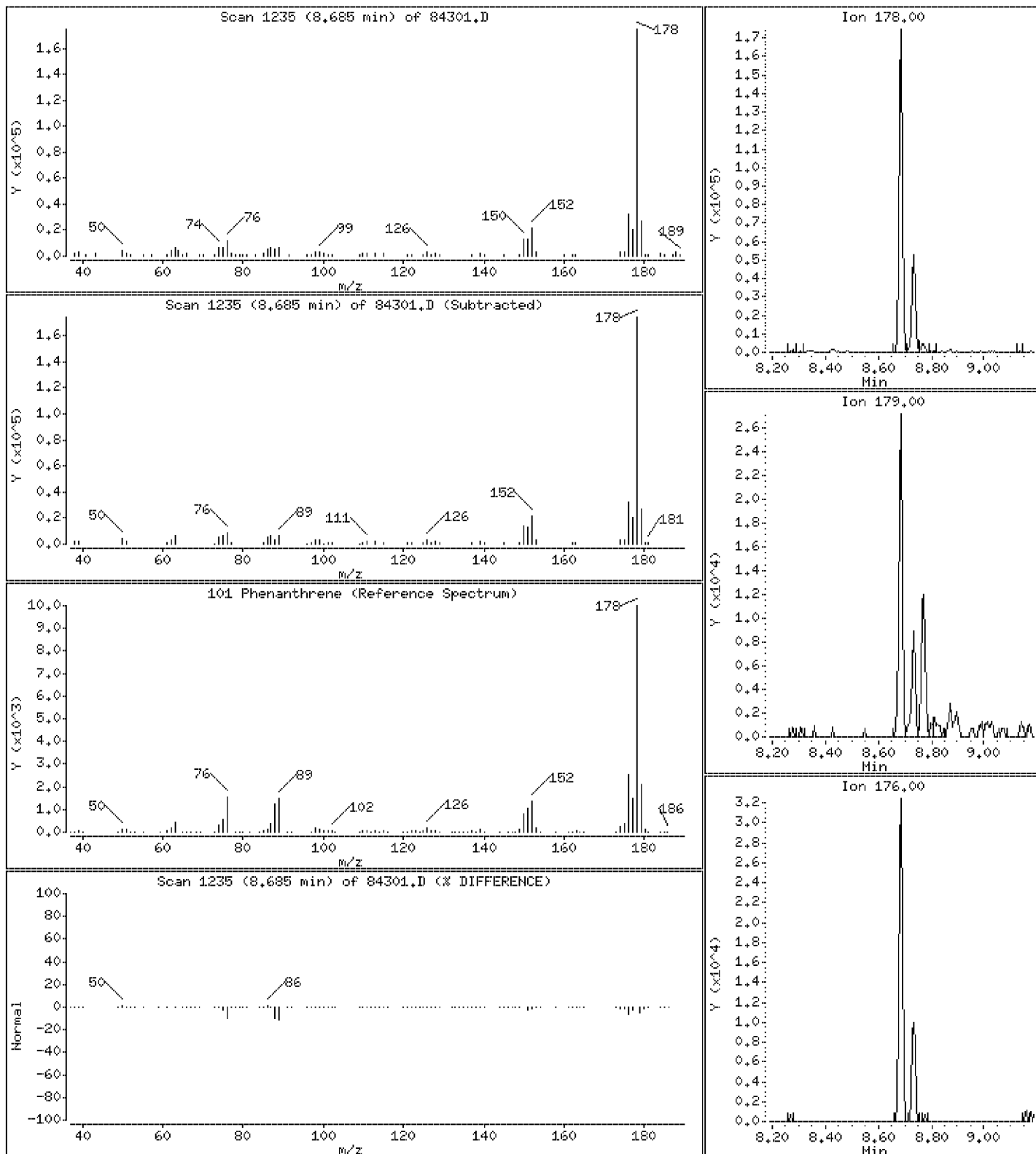
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

101 Phenanthrene

Concentration: 230 ug/kg



Date : 04-MAY-2012 11:45

Client ID: EPAFMC-SD-07

Instrument: smsd03.i

Sample Info: SW350584301

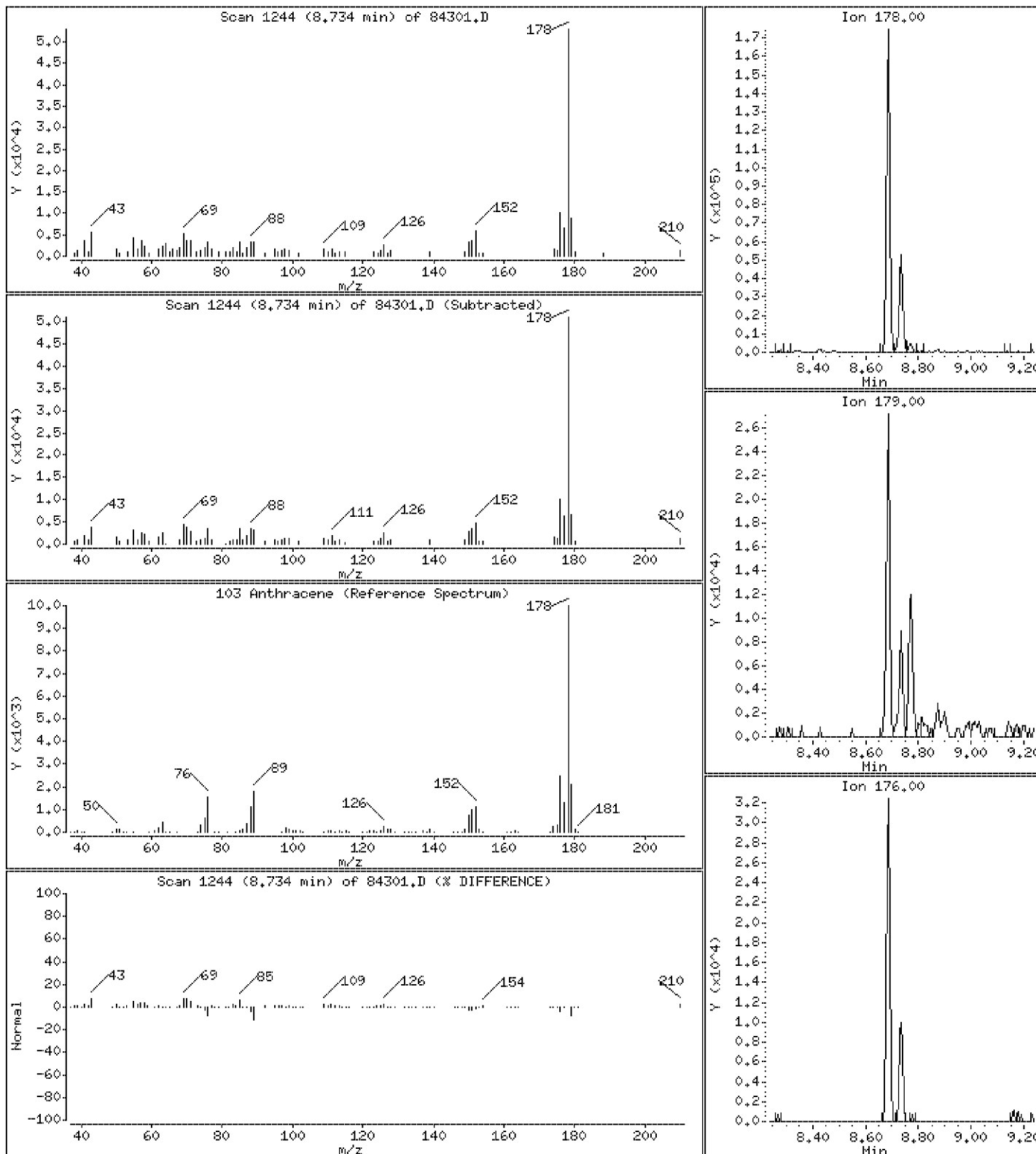
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

103 Anthracene

Concentration: 75.6 ug/kg



Date : 04-MAY-2012 11:45

Client ID: EPAFMC-SD-07

Instrument: smsd03.i

Sample Info: SW350584301

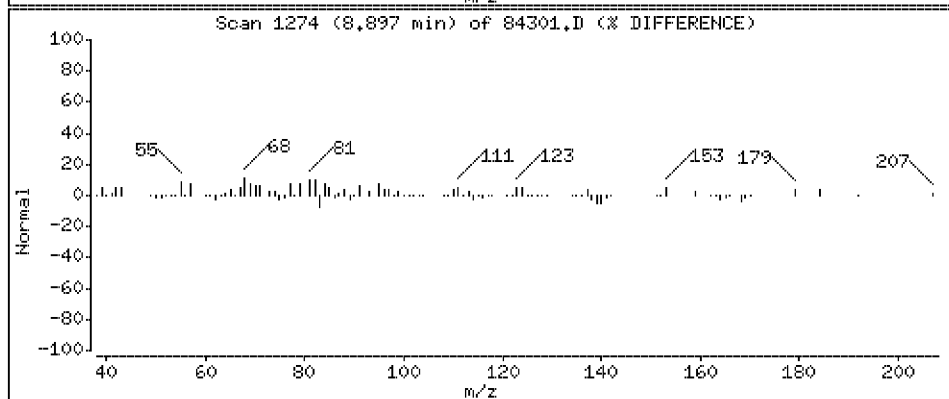
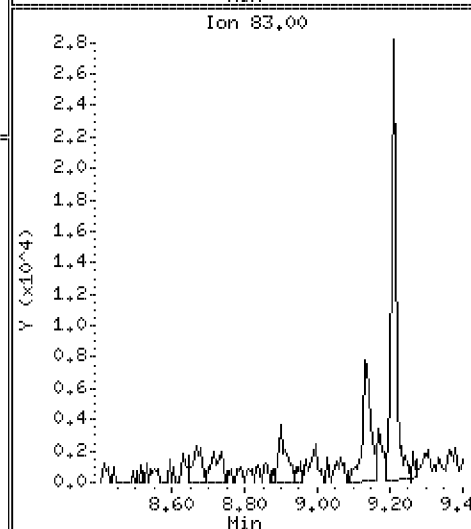
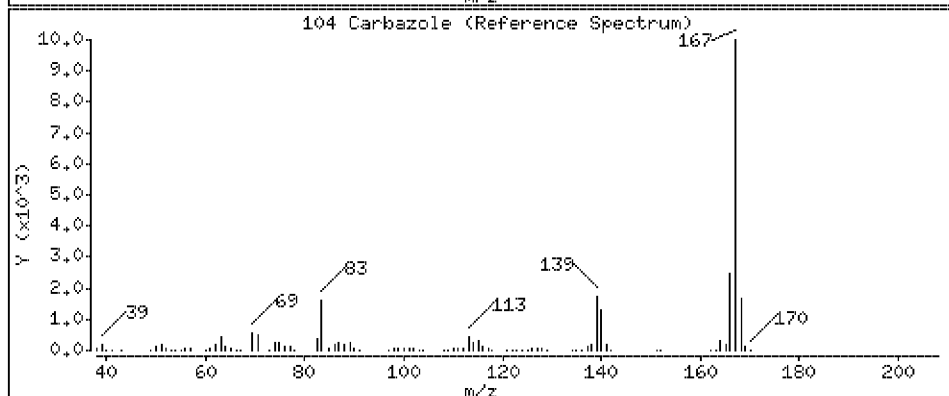
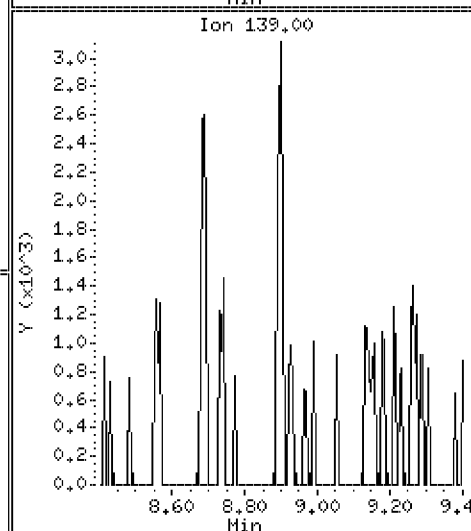
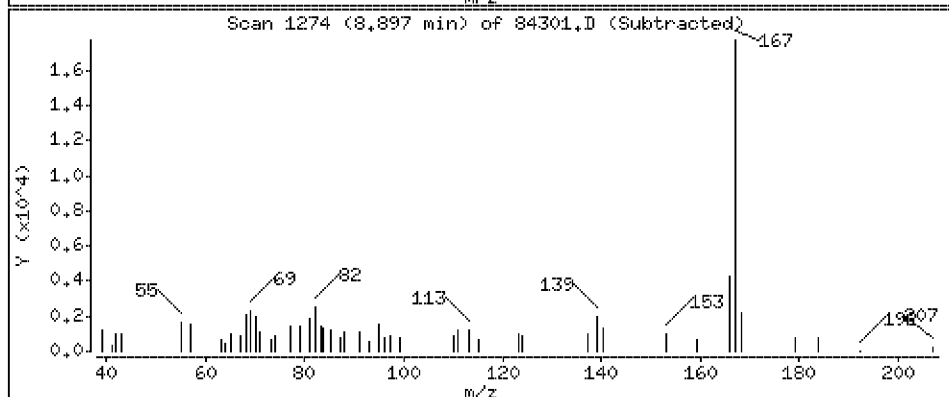
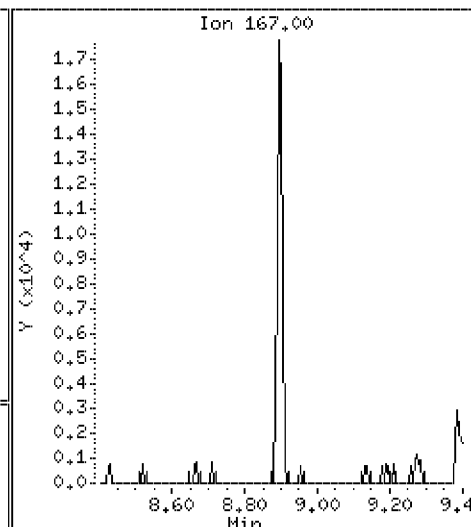
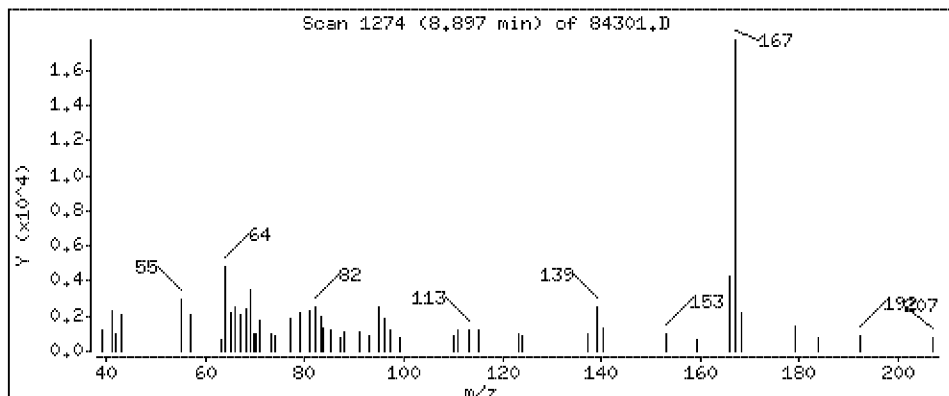
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

104 Carbazole

Concentration: 31.1 ug/kg



Date : 04-MAY-2012 11:45

Client ID: EPAFMC-SD-07

Instrument: smsd03.i

Sample Info: SW350584301

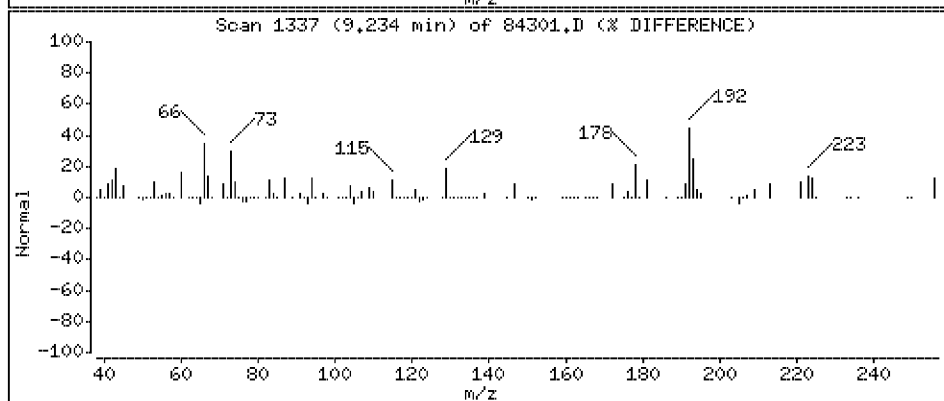
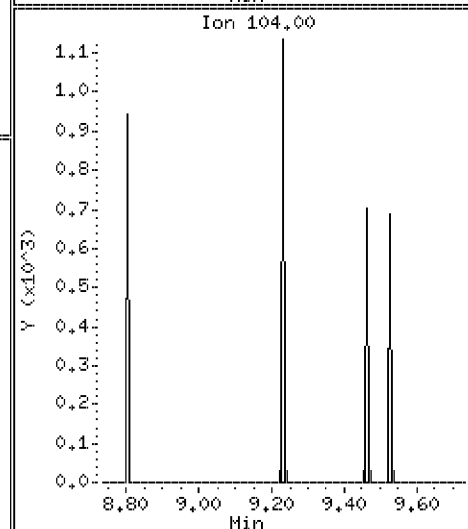
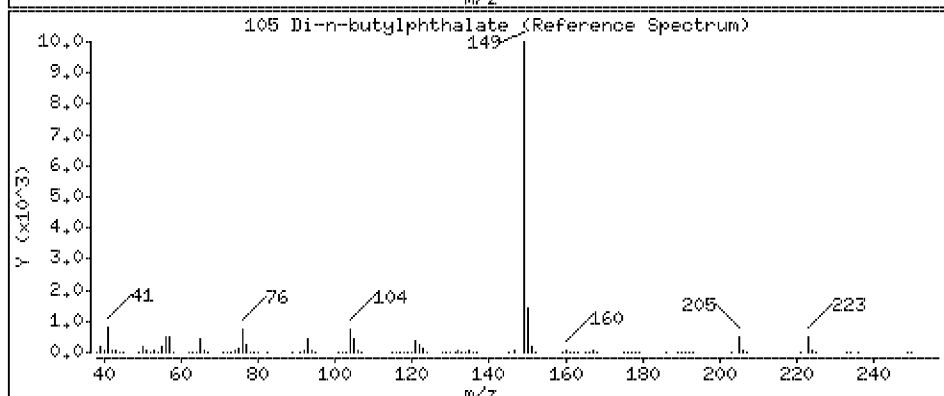
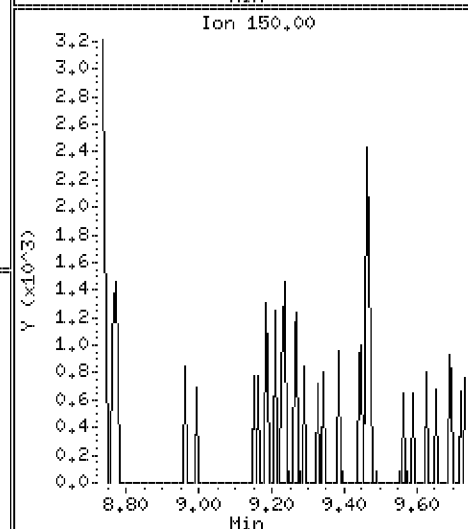
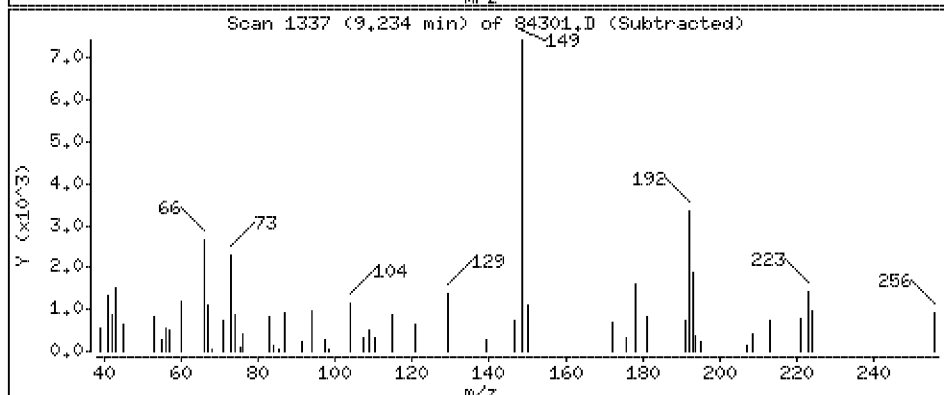
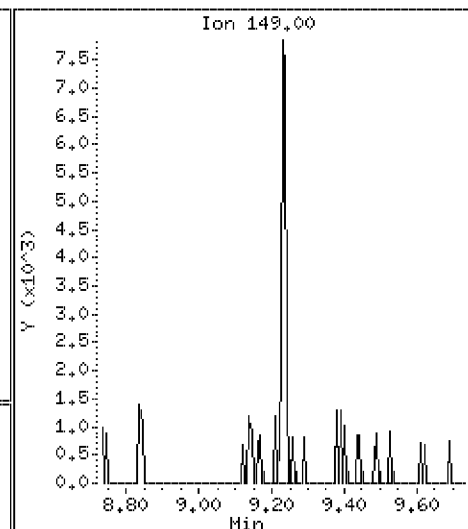
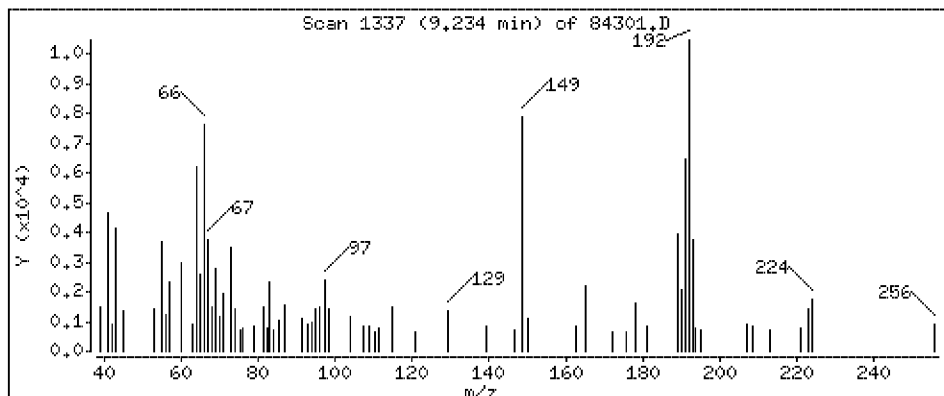
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

105 Di-n-butylphthalate

Concentration: 9.6 ug/kg



Date : 04-MAY-2012 11:45

Client ID: EPAFMC-SD-07

Instrument: smsd03.i

Sample Info: SW350584301

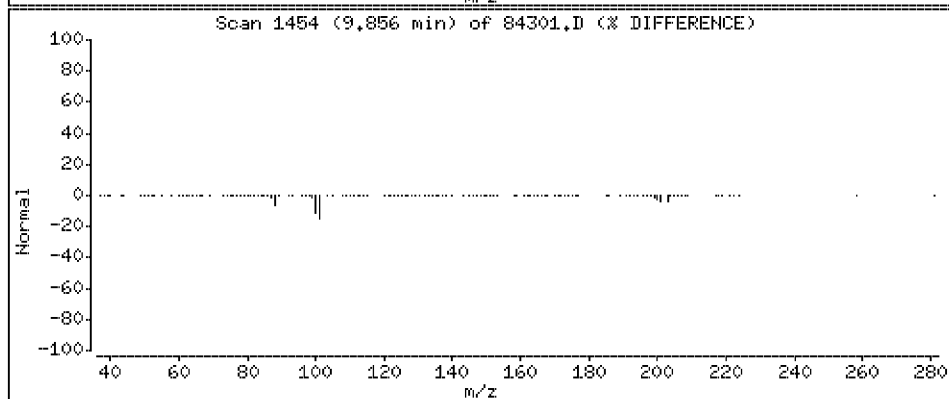
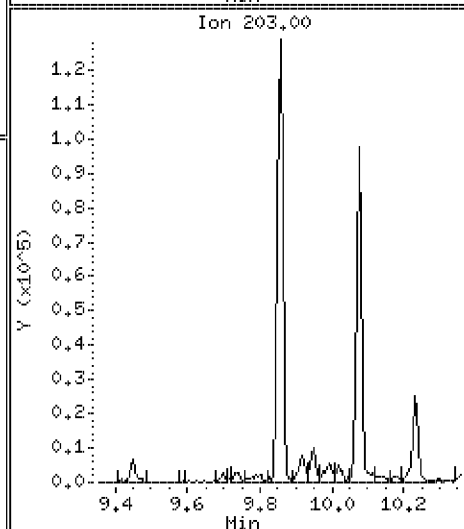
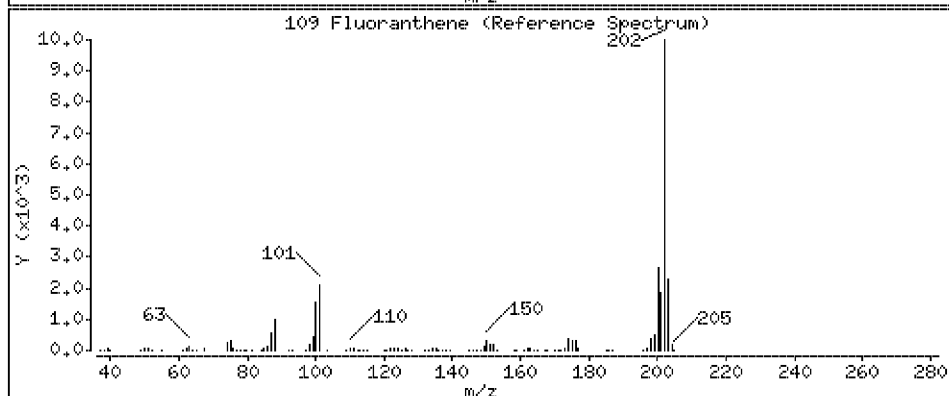
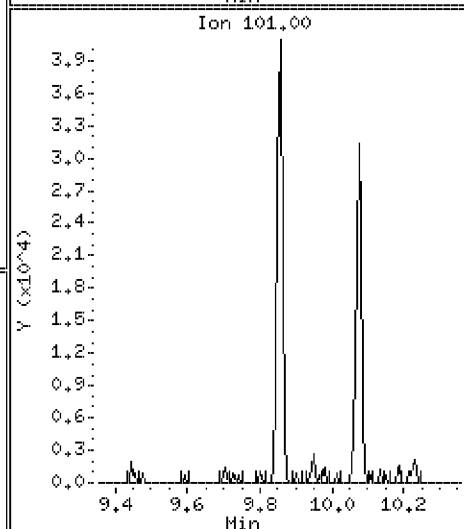
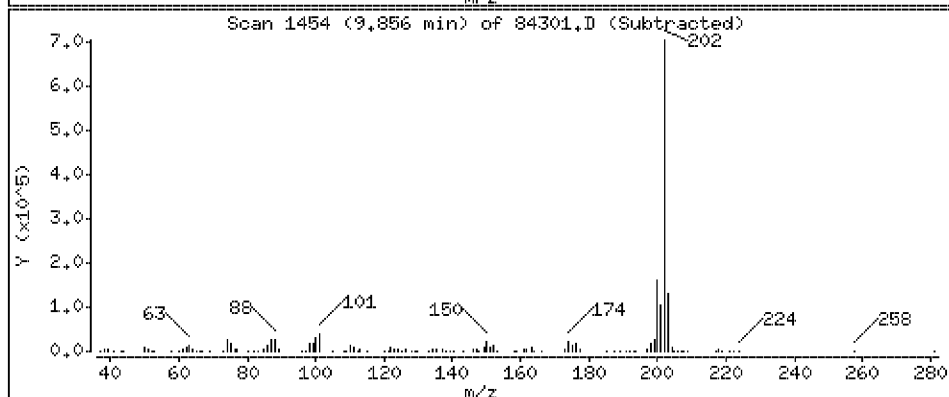
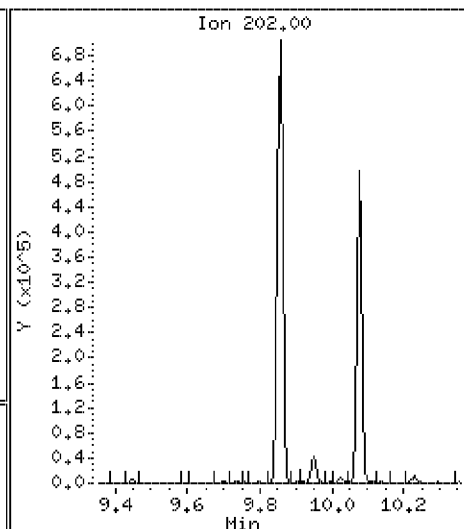
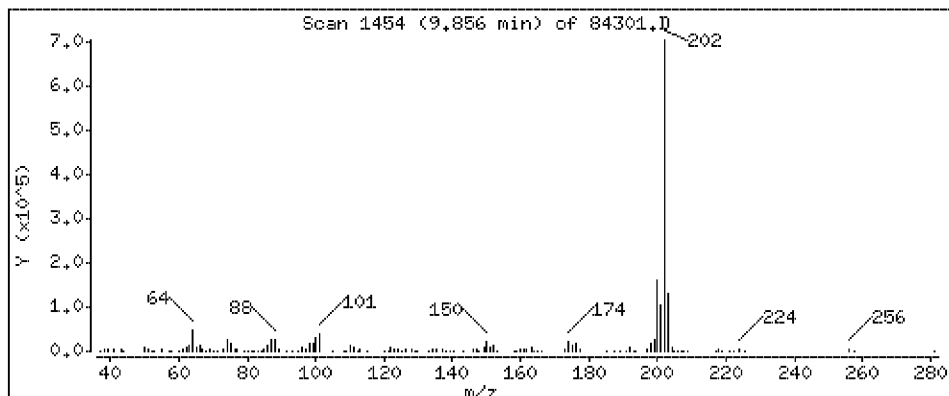
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

109 Fluoranthene

Concentration: 785 ug/kg



Date : 04-MAY-2012 11:45

Client ID: EPAFMC-SD-07

Instrument: smsd03.i

Sample Info: SW350584301

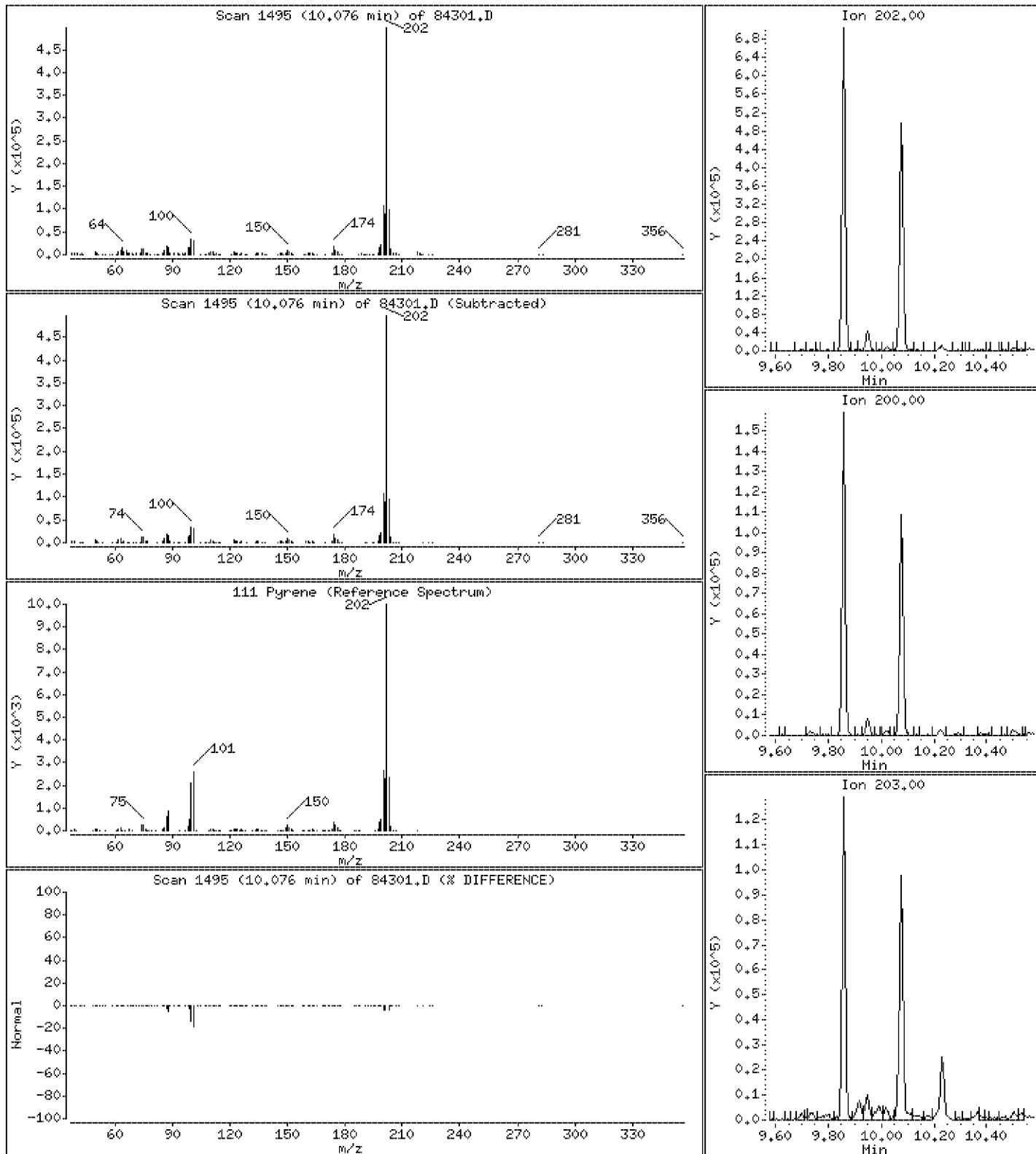
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

111 Pyrene

Concentration: 667 ug/kg



Date : 04-MAY-2012 11:45

Client ID: EPAFMC-SD-07

Instrument: smsd03.i

Sample Info: SW350584301

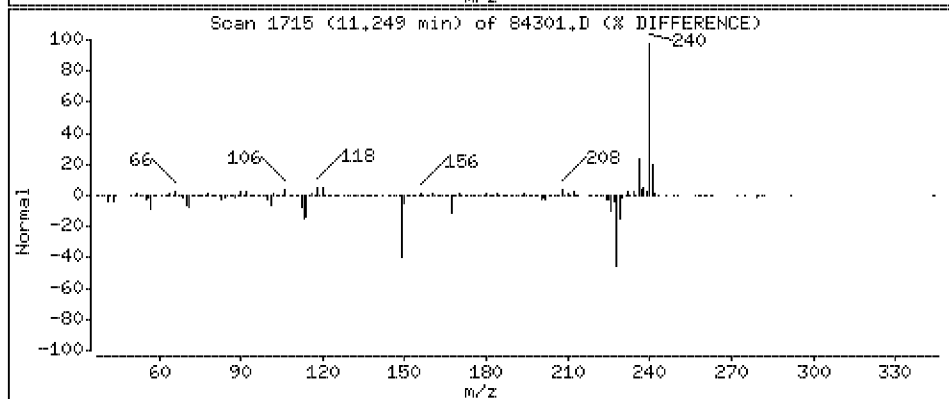
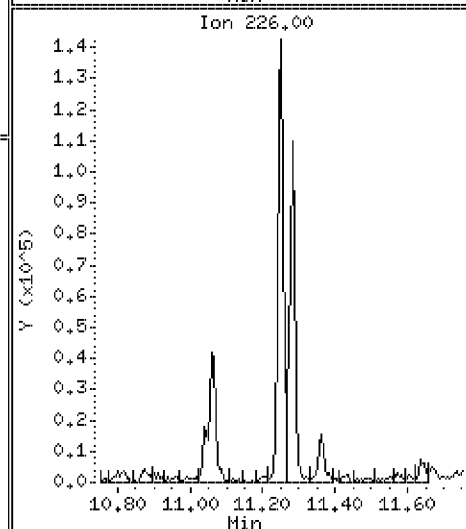
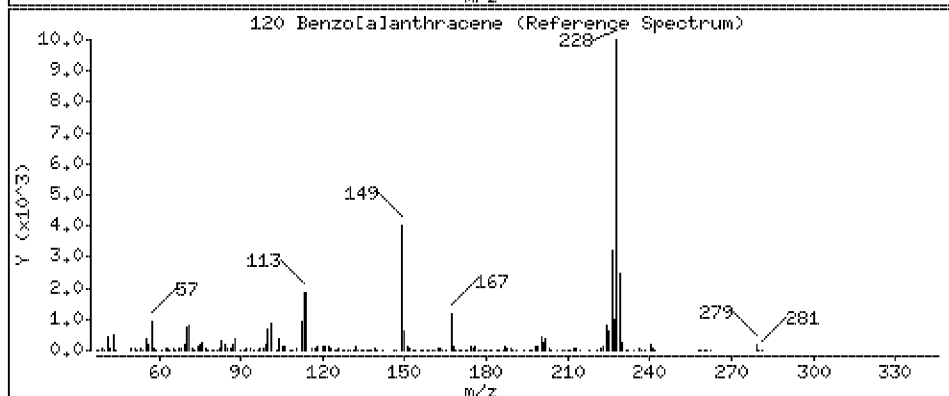
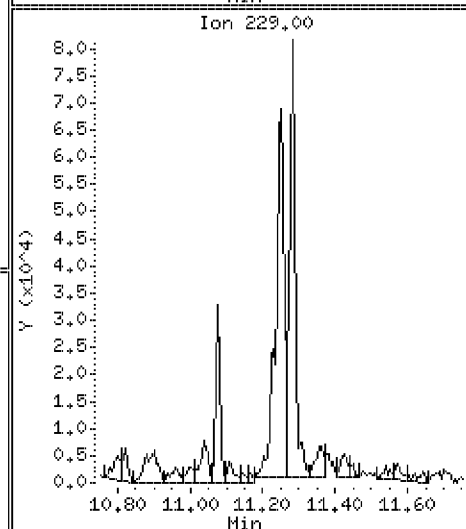
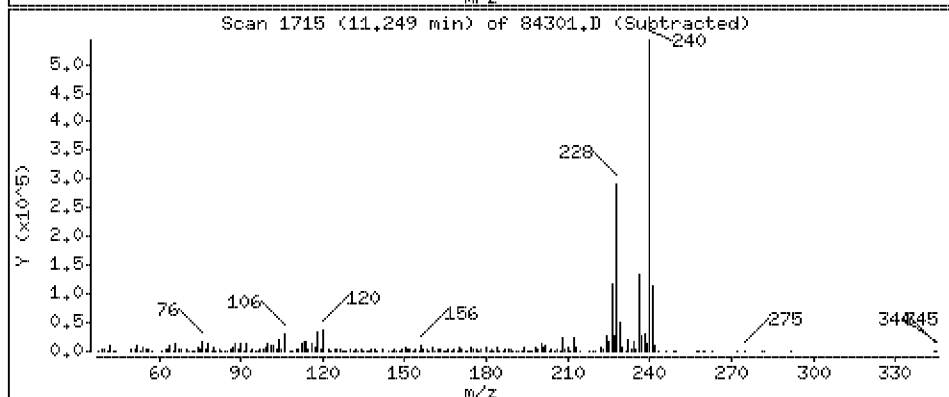
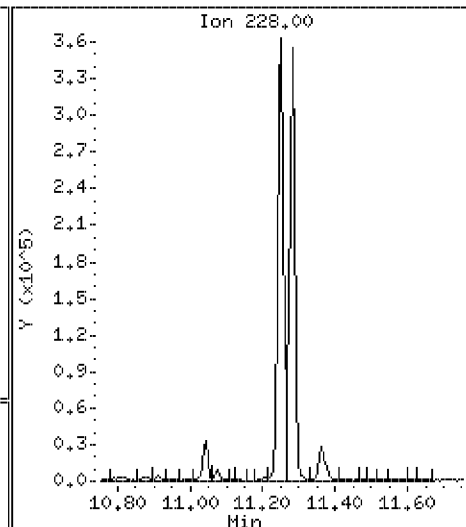
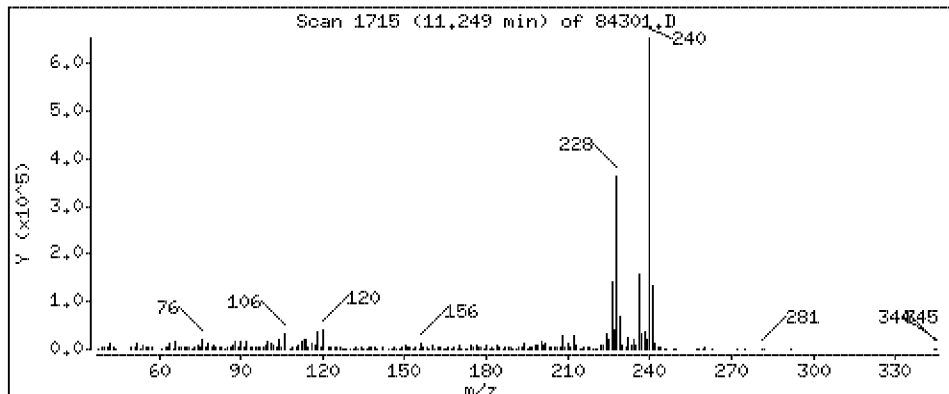
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

120 Benzo[*a*]anthracene

Concentration: 449 ug/kg



Date : 04-MAY-2012 11:45

Client ID: EPAFMC-SD-07

Instrument: smsd03.i

Sample Info: SW350584301

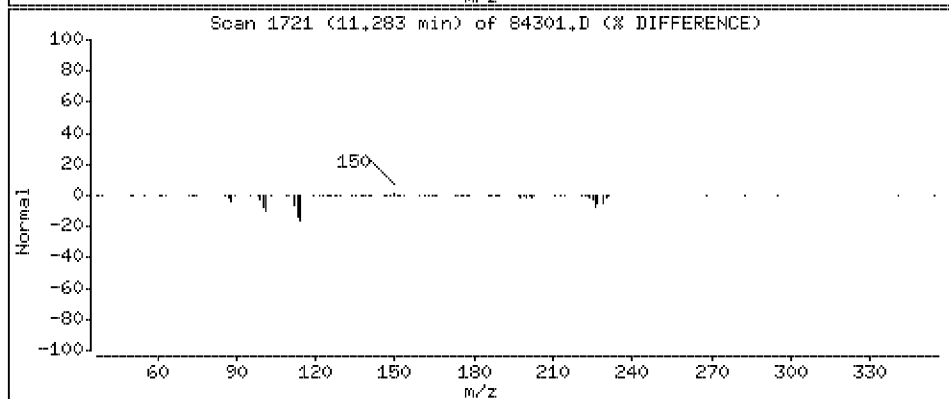
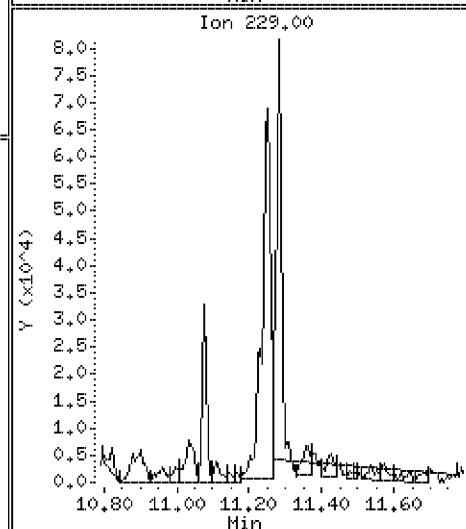
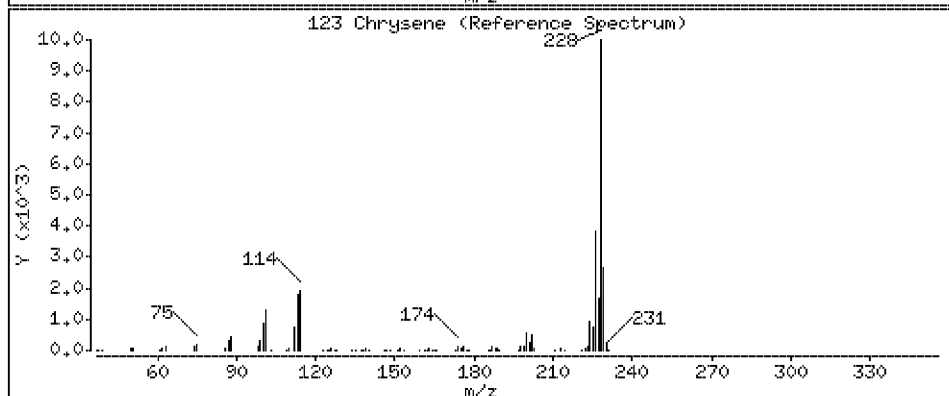
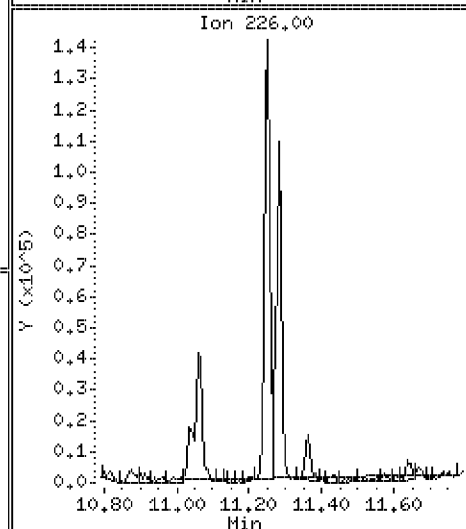
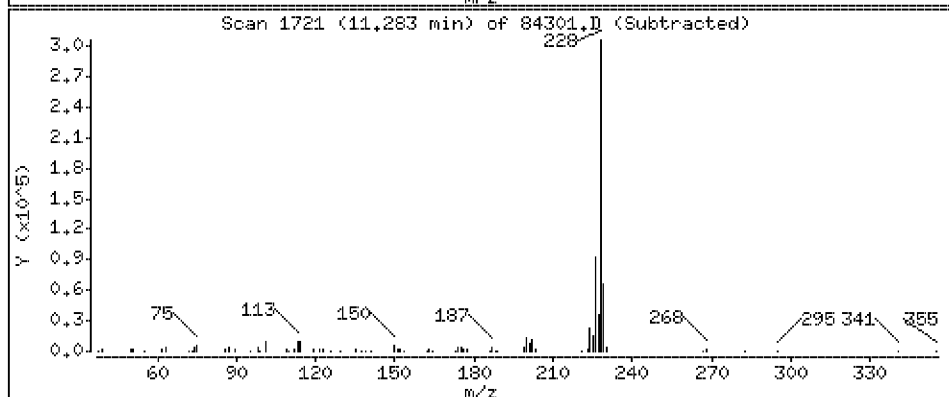
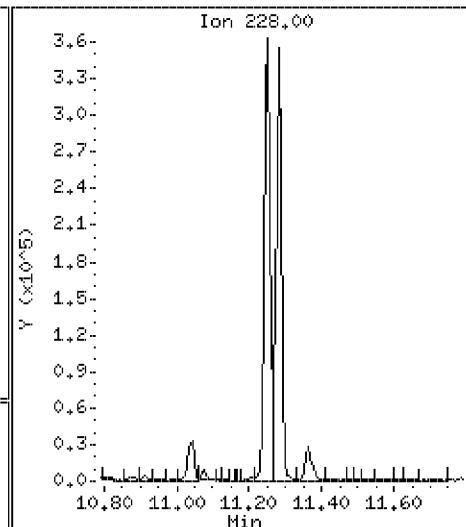
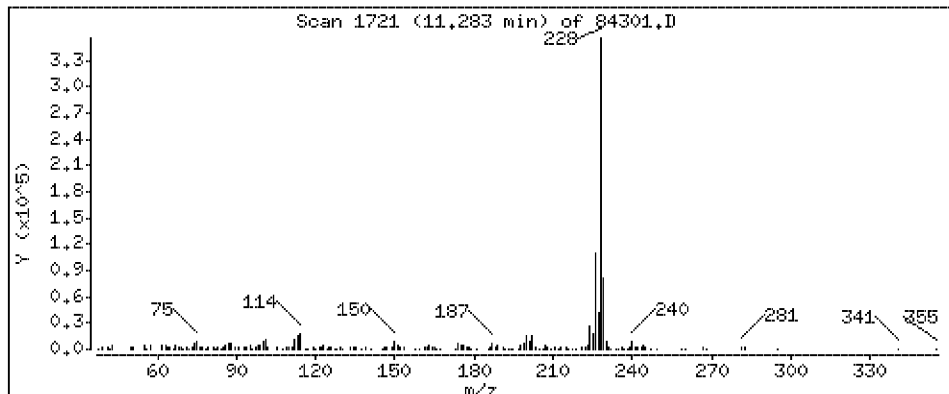
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

123 Chrysene

Concentration: 489 ug/kg



Date : 04-MAY-2012 11:45

Client ID: EPAFMC-SD-07

Instrument: smsd03.i

Sample Info: SW350584301

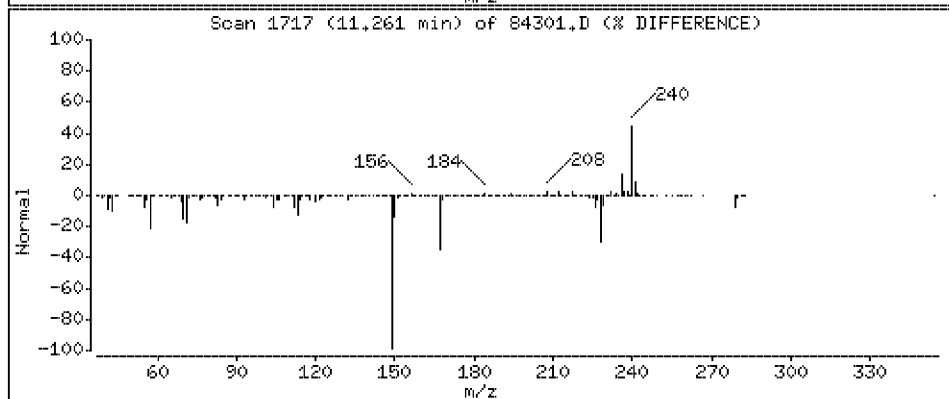
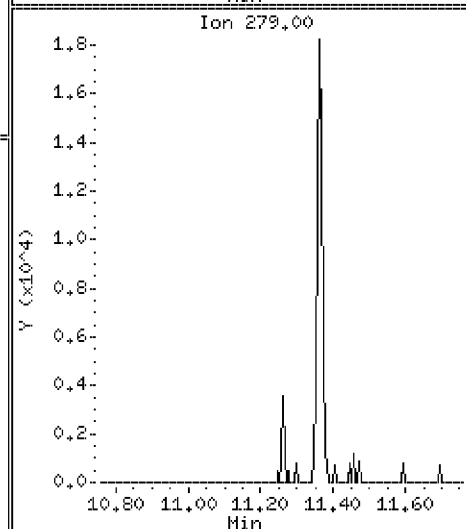
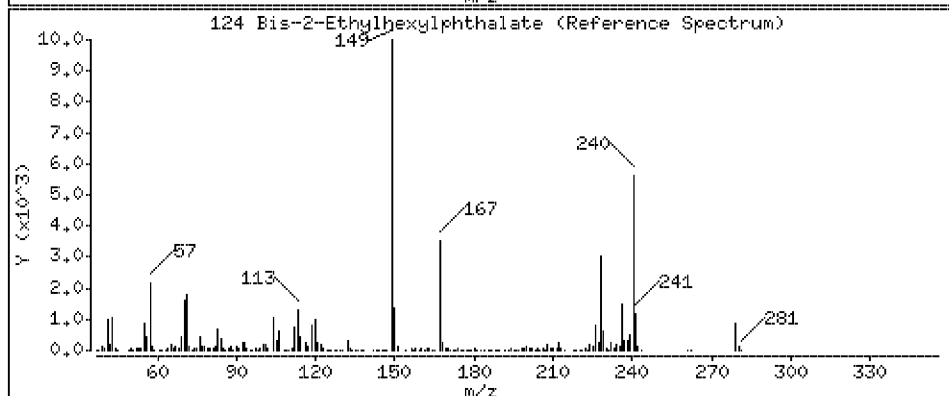
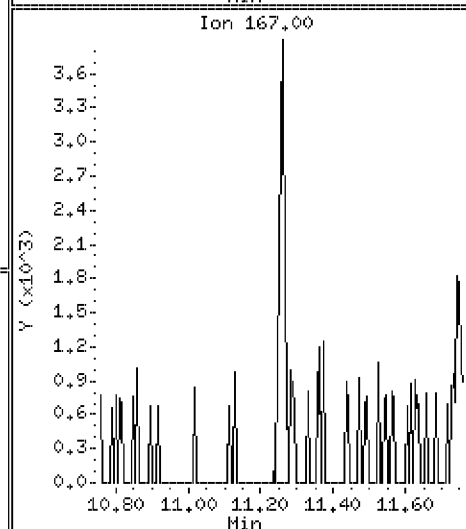
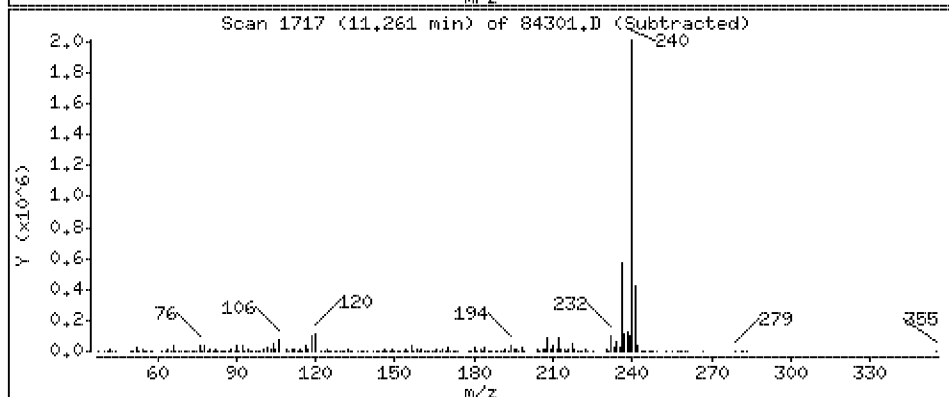
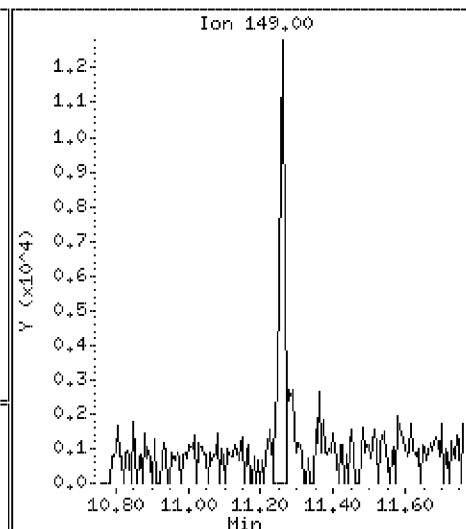
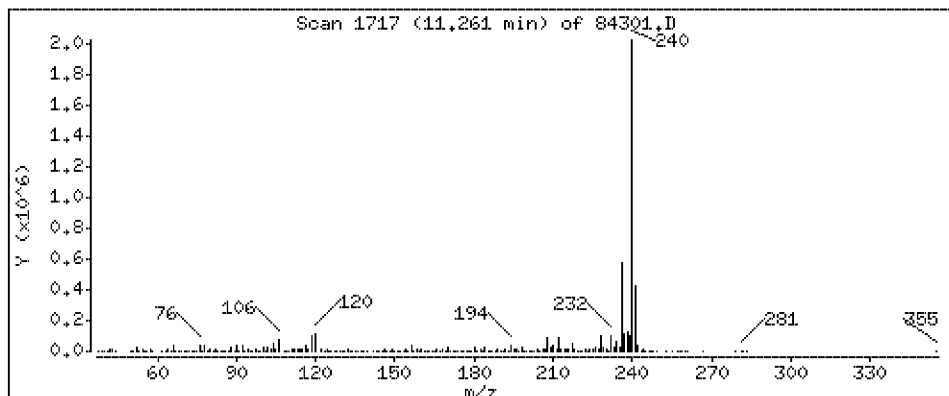
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

124 Bis-2-Ethylhexylphthalate

Concentration: 25.3 ug/kg



Date : 04-MAY-2012 11:45

Client ID: EPAFMC-SD-07

Instrument: smsd03.i

Sample Info: SW350584301

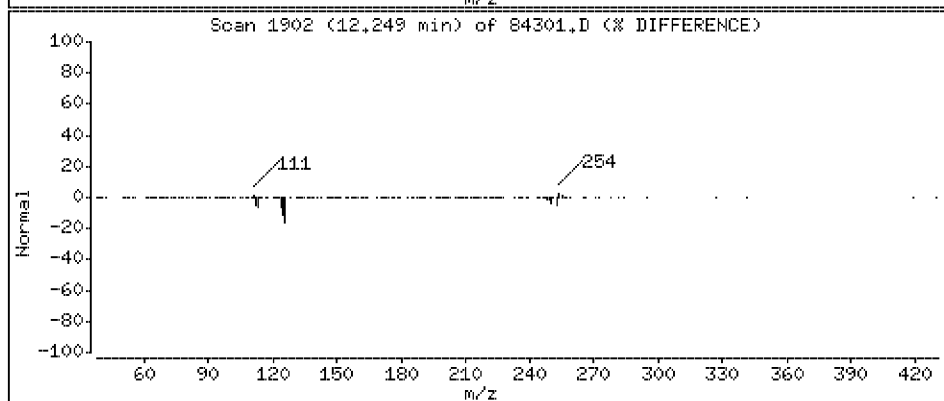
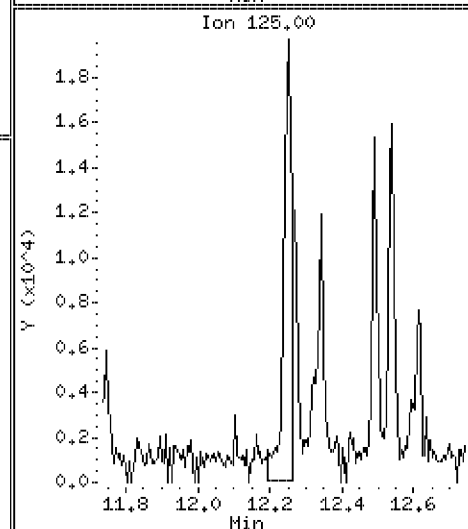
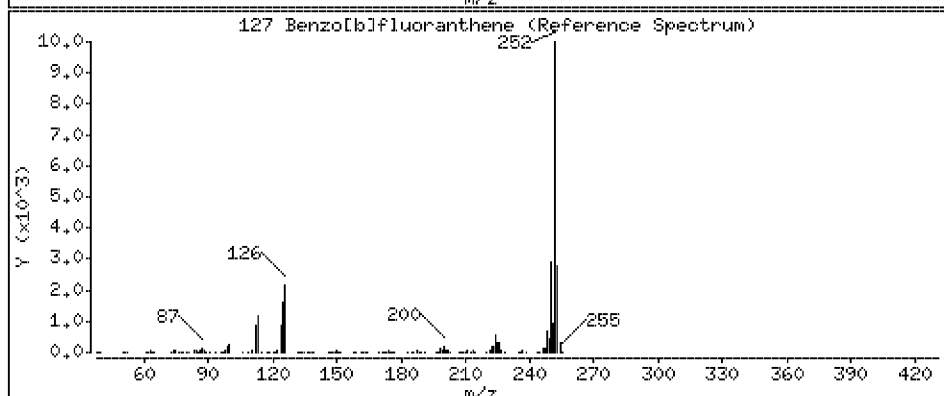
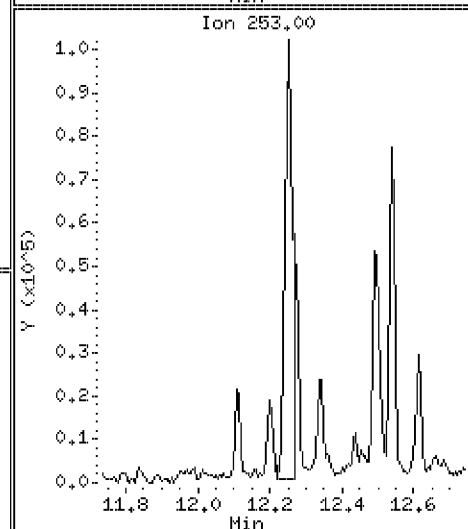
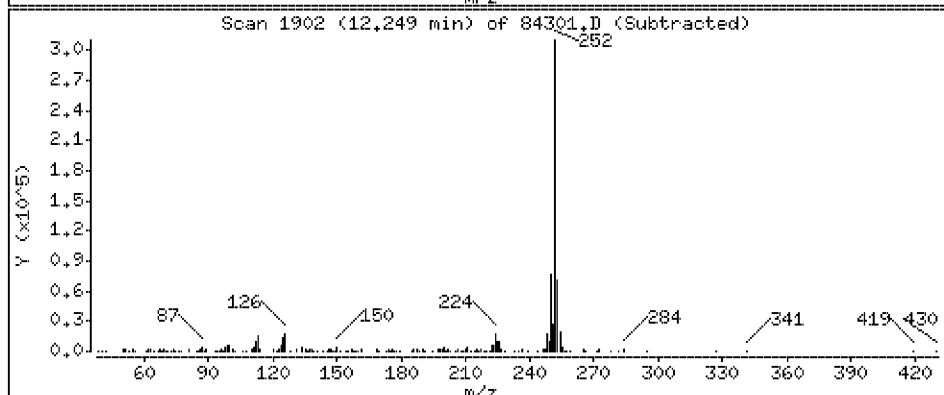
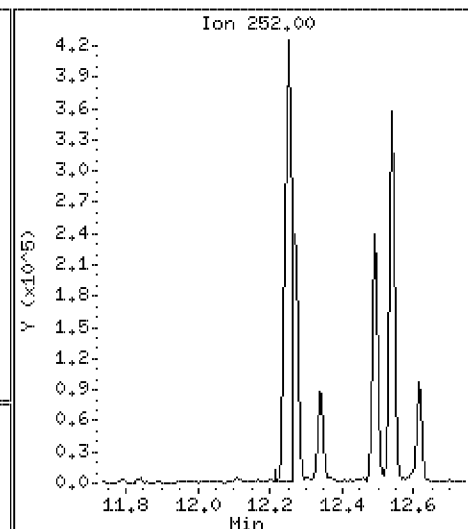
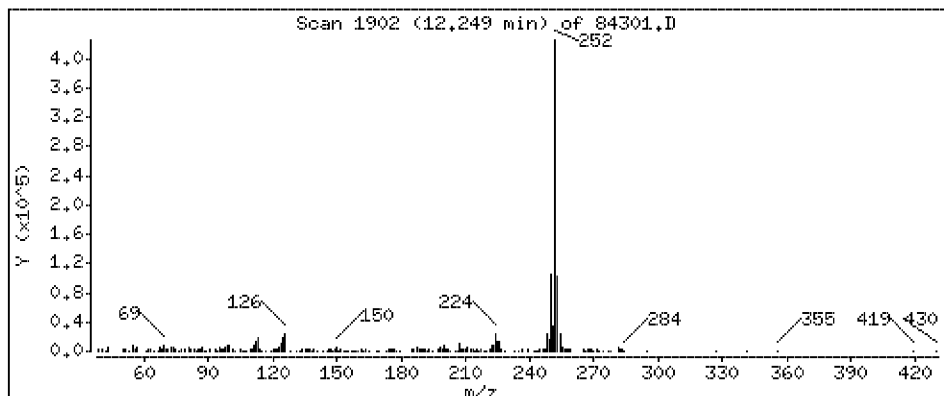
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

127 Benzo[b]fluoranthene

Concentration: 526 ug/kg



Date : 04-MAY-2012 11:45

Client ID: EPAFMC-SD-07

Instrument: smsd03.i

Sample Info: SW350584301

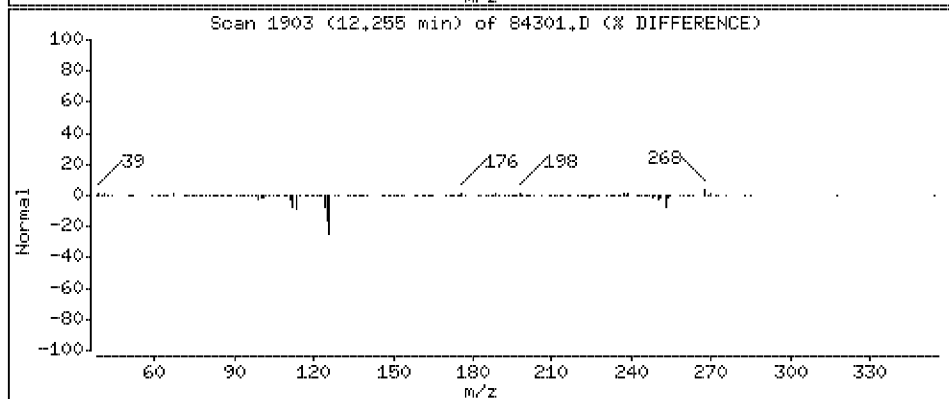
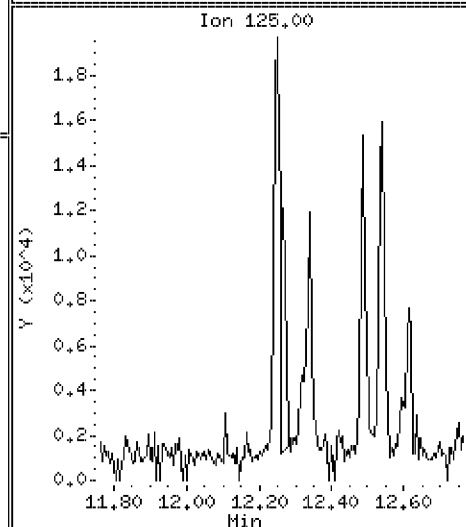
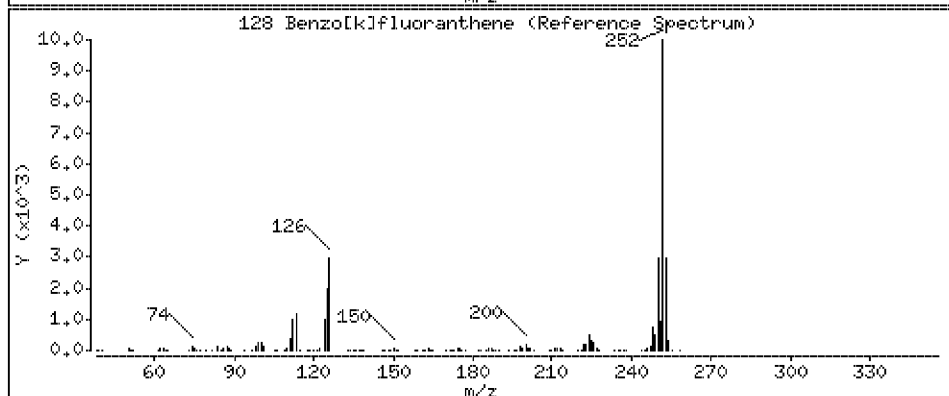
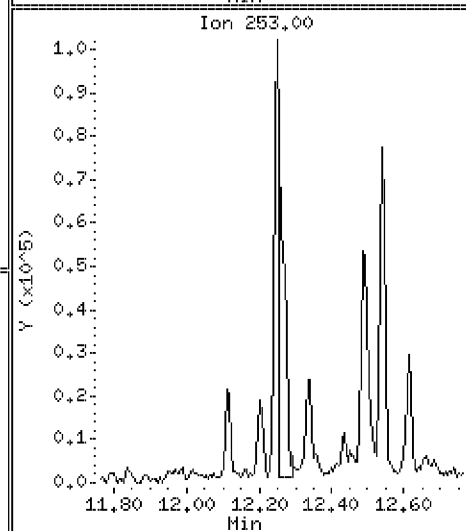
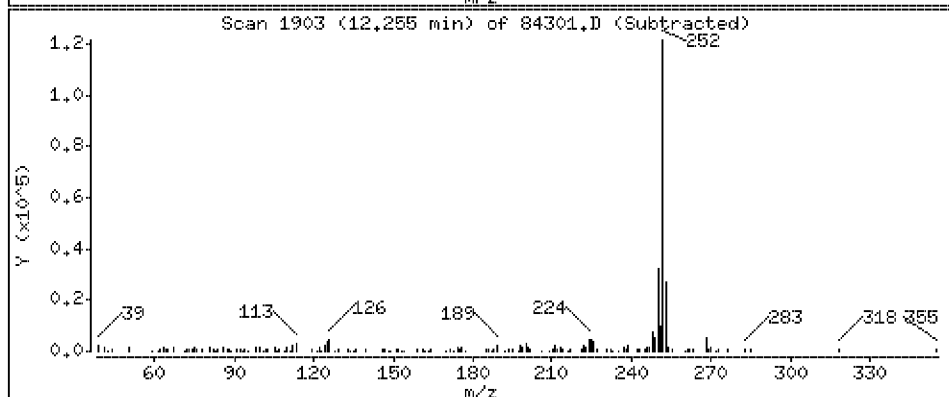
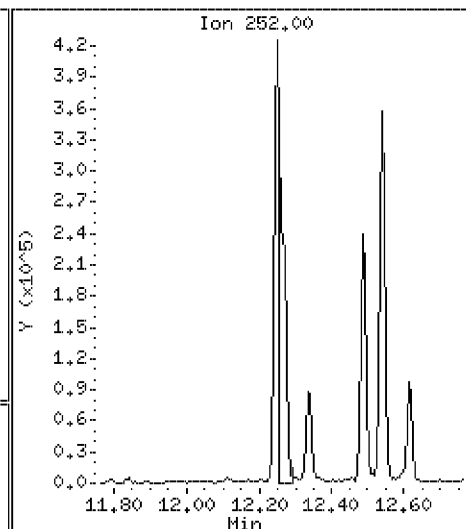
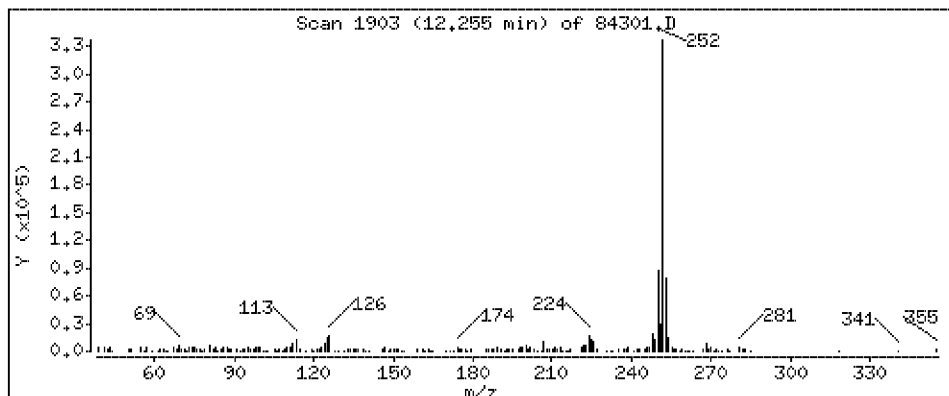
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

128 Benzo[k]fluoranthene

Concentration: 421 ug/kg



Date : 04-MAY-2012 11:45

Client ID: EPAFMC-SD-07

Instrument: smsd03.i

Sample Info: SW350584301

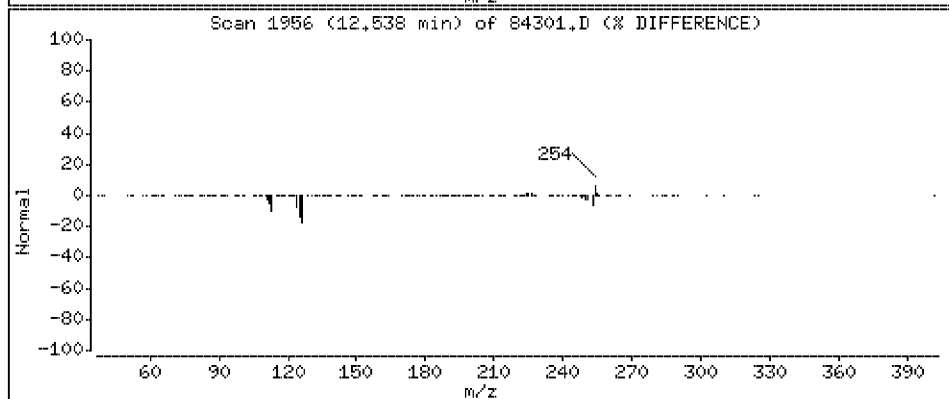
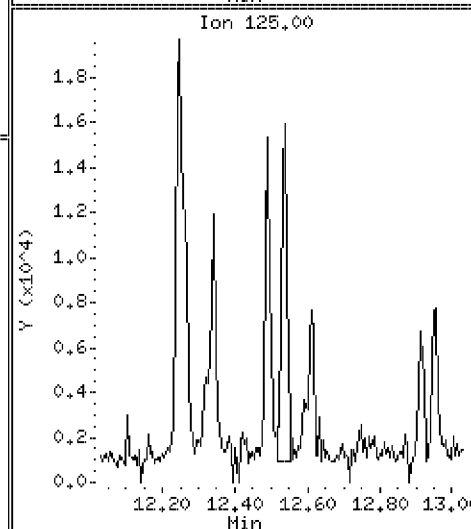
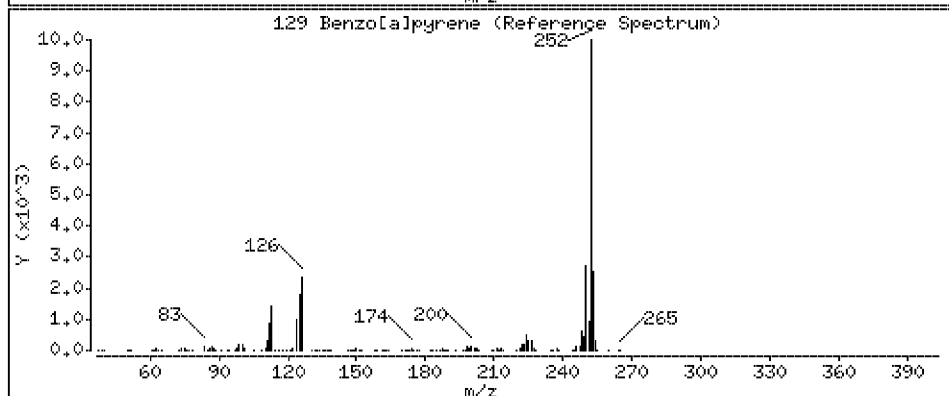
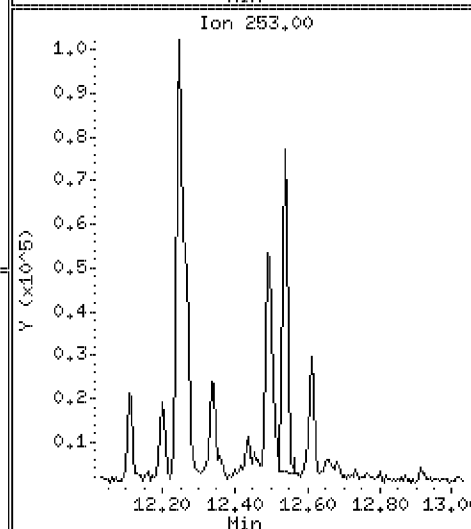
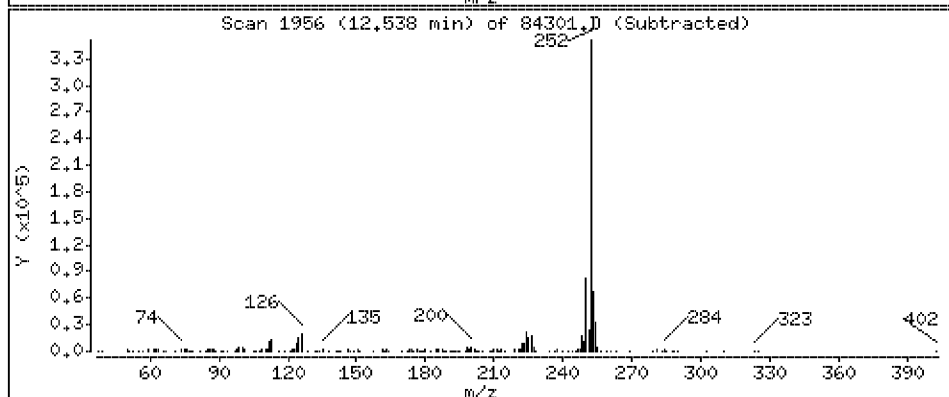
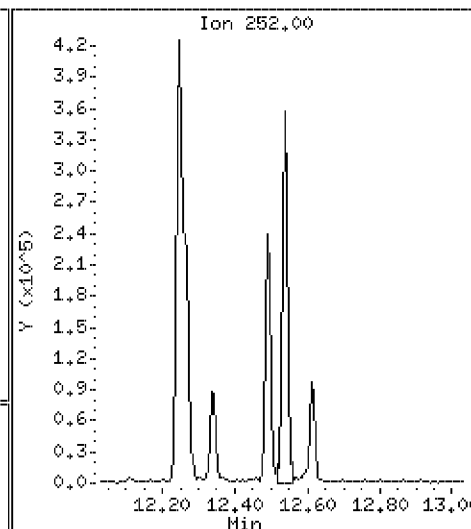
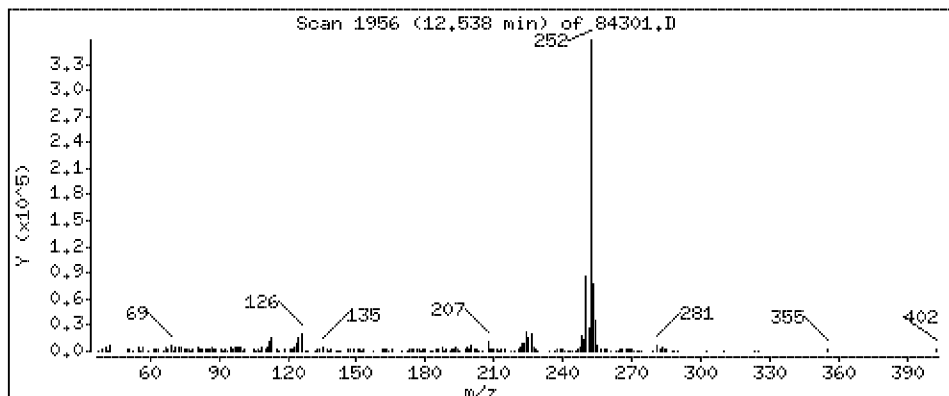
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

129 Benzo[ap]pyrene

Concentration: 400 ug/kg



Date : 04-MAY-2012 11:45

Client ID: EPAFMC-SD-07

Instrument: smsd03.i

Sample Info: SW350584301

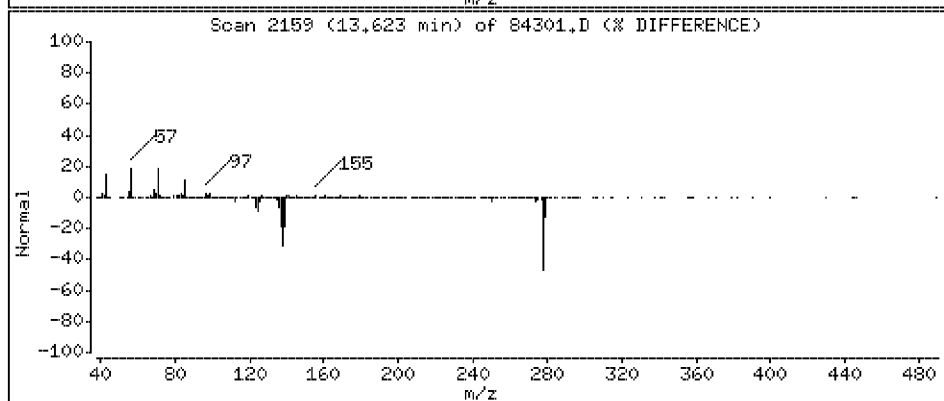
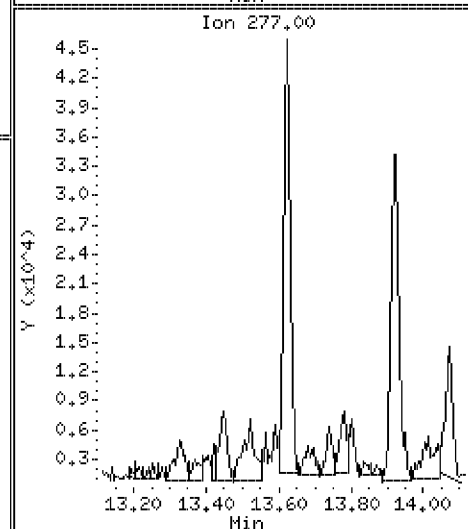
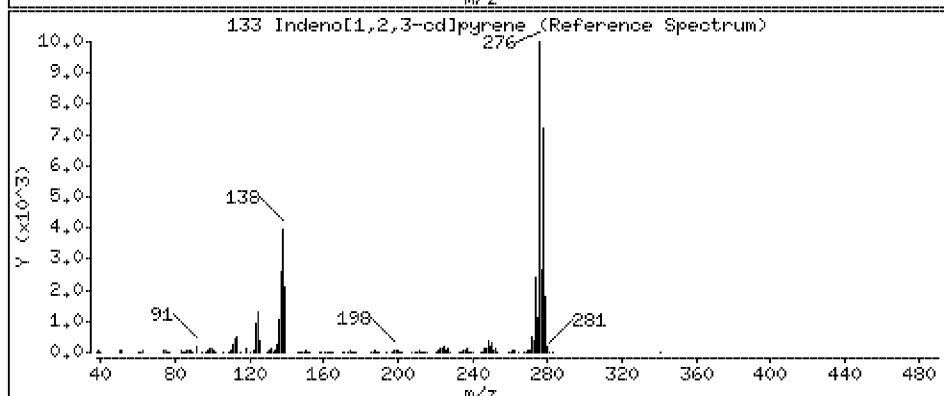
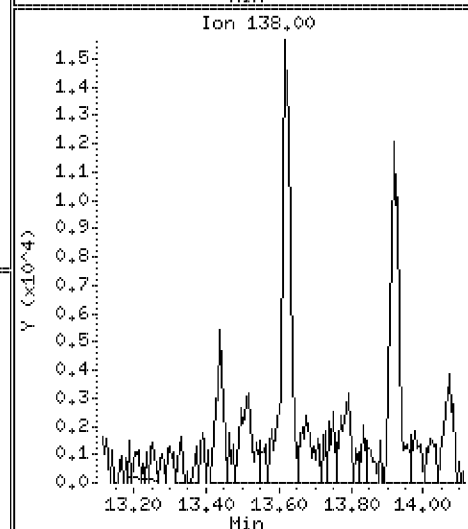
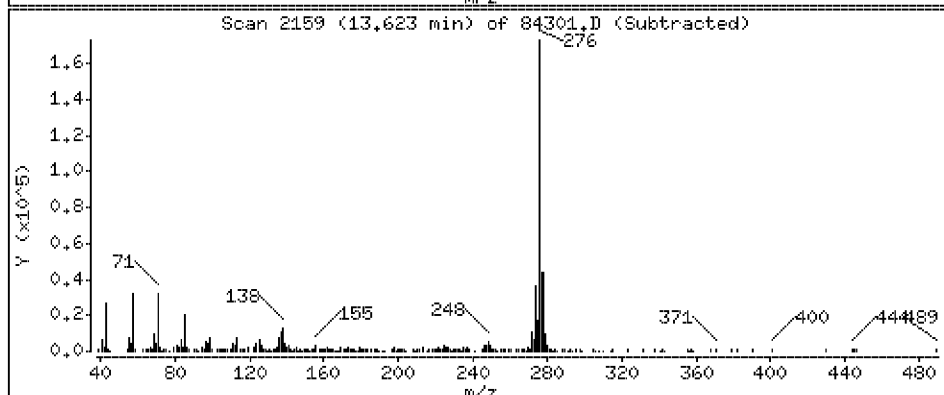
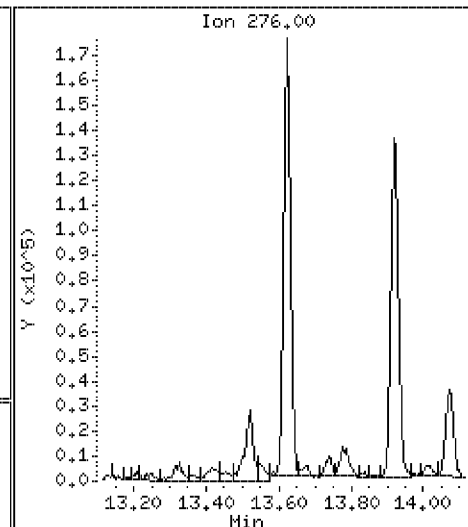
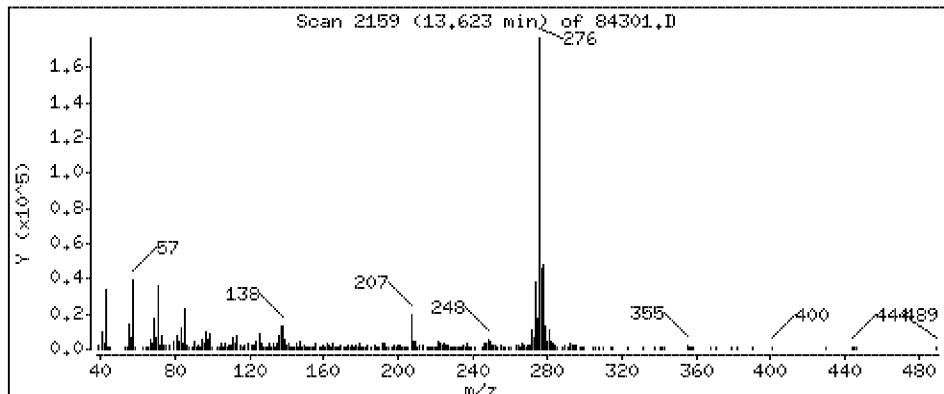
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

133 Indeno[1,2,3-cd]pyrene

Concentration: 204 ug/kg



Date : 04-MAY-2012 11:45

Client ID: EPAFMC-SD-07

Instrument: smsd03.i

Sample Info: SW350584301

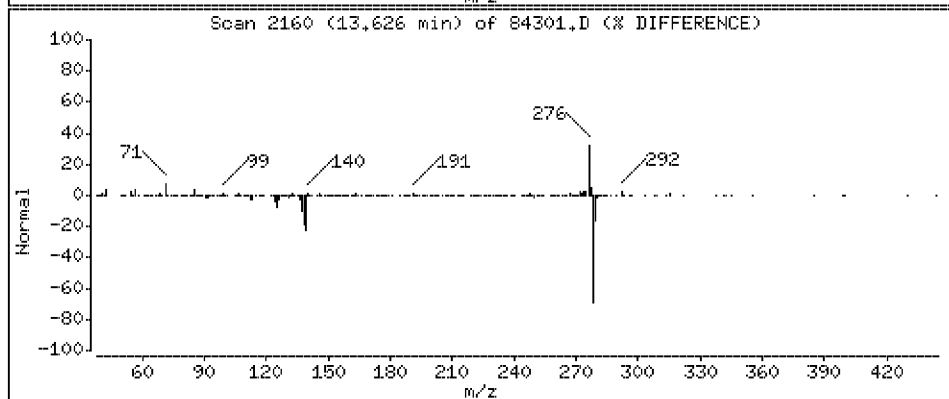
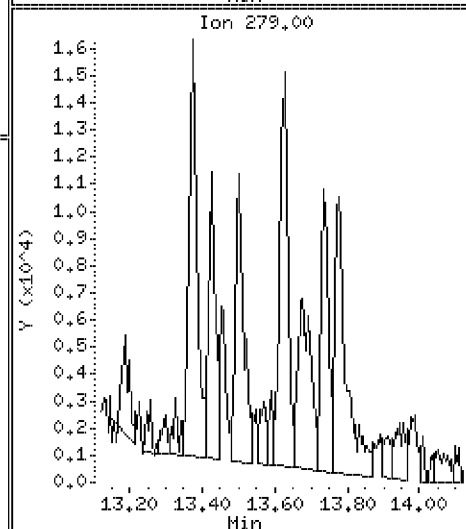
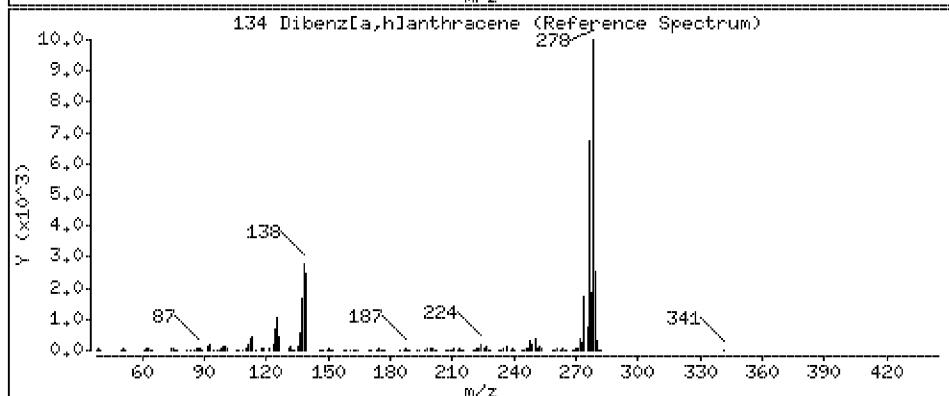
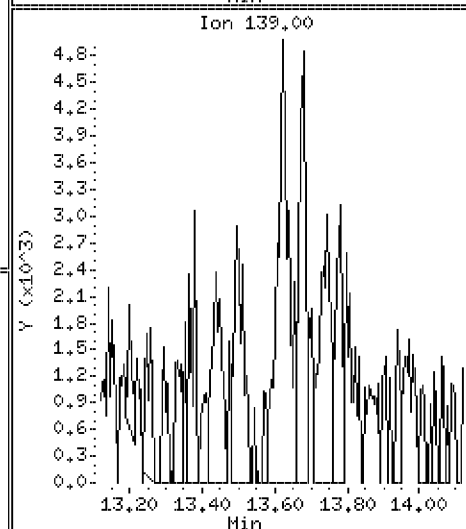
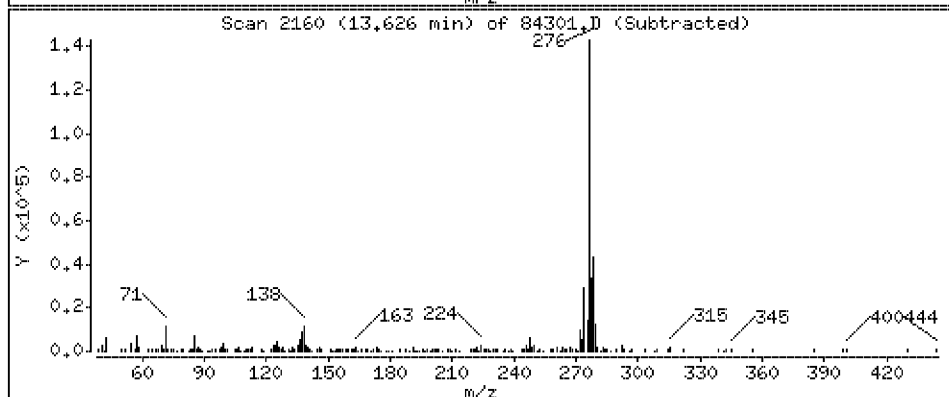
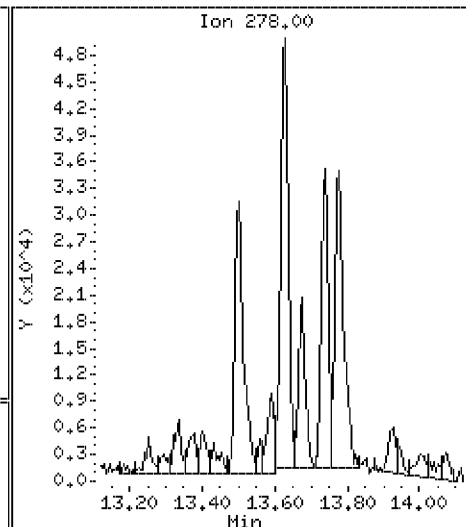
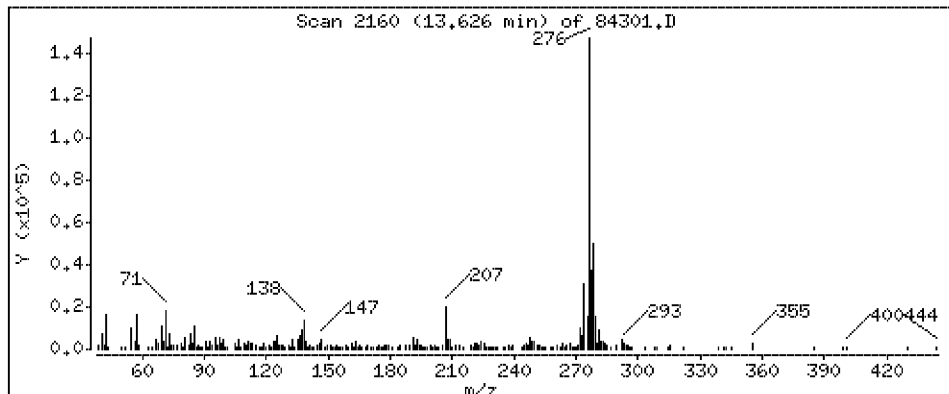
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

134 Dibenz[a,h]anthracene

Concentration: 71.8 ug/kg



Date : 04-MAY-2012 11:45

Client ID: EPAFMC-SD-07

Instrument: smsd03.i

Sample Info: SW350584301

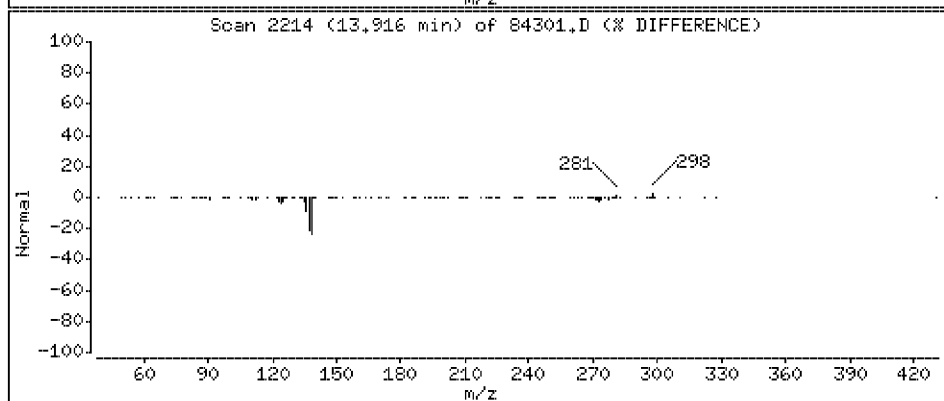
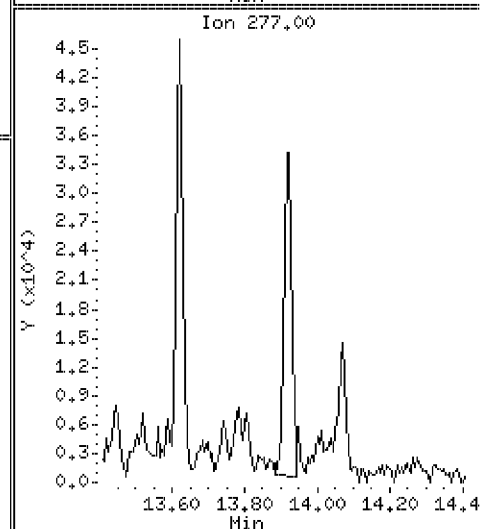
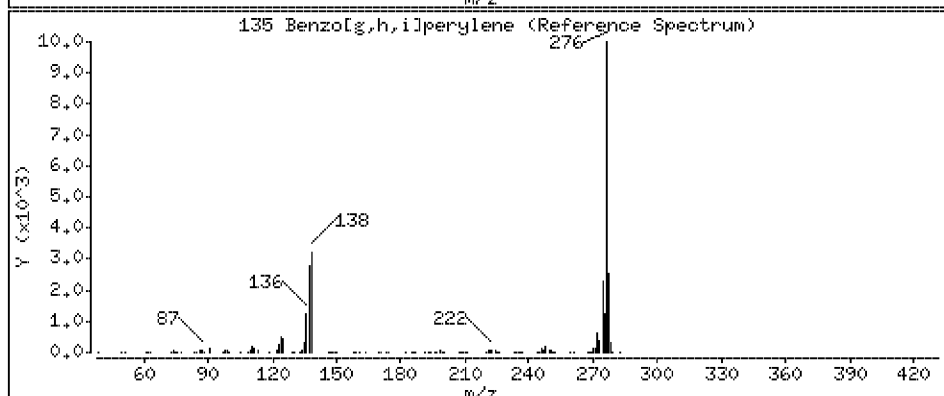
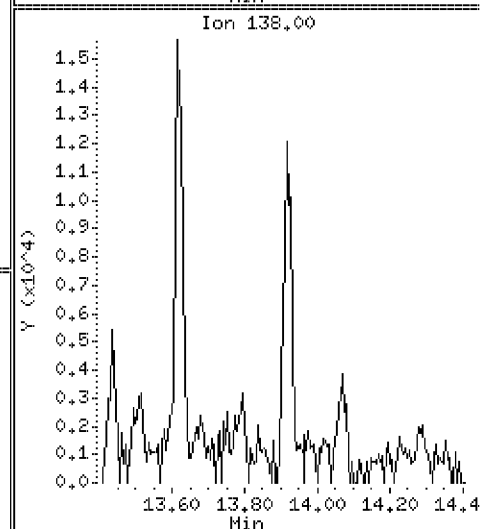
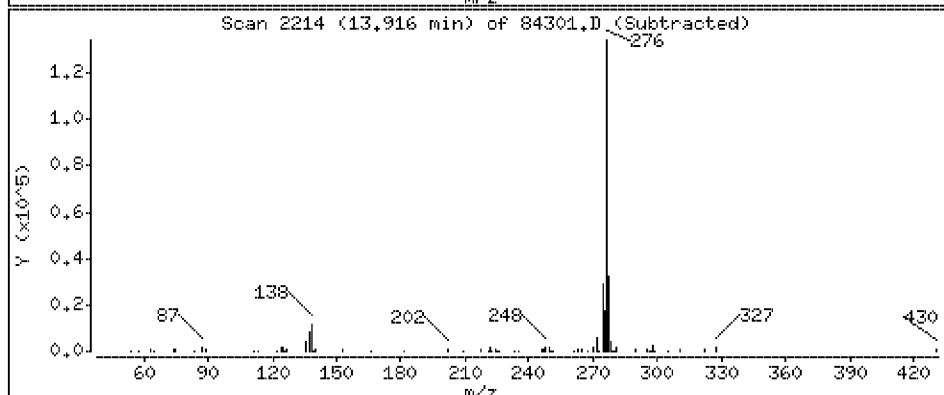
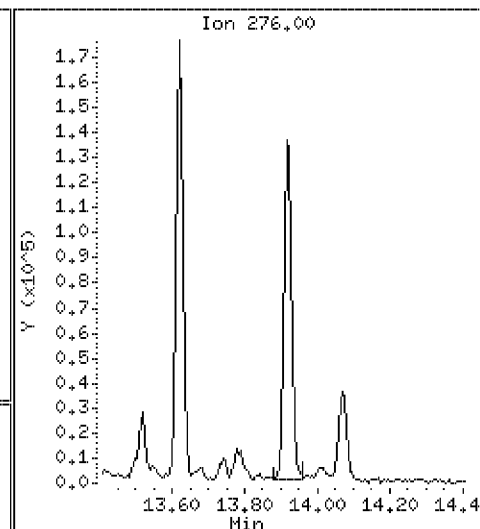
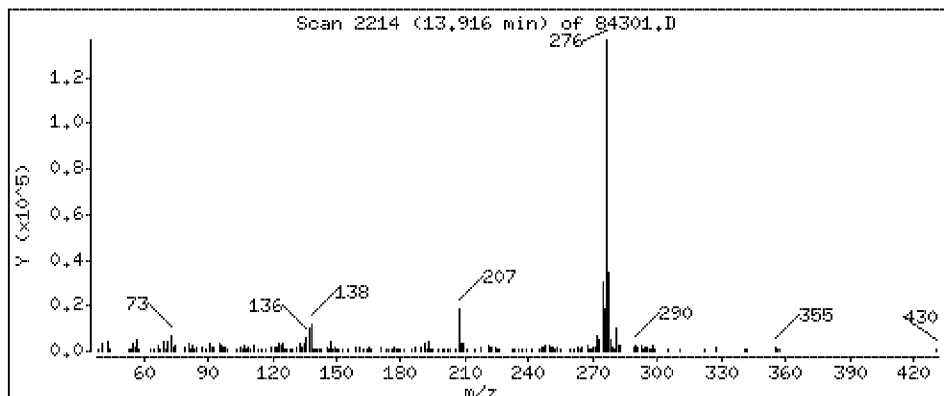
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

135 Benzo[g,h,i]perylene

Concentration: 232 ug/kg



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3050412.b\84302.D
 Lab Smp Id: 350584302 Client Smp ID: EPAFMC-SD-07MS
 Inj Date : 04-MAY-2012 13:22
 Operator : MJ Inst ID: smsd03.i
 Smp Info : SW350584302
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3050412.b\8270bcs.m
 Meth Date : 07-May-2012 17:35 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 18:17 Cal File: AP9CAL4.D
 Als bottle: 9 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.240	Weight of sample extracted (g)
M	24.500	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
3 2- Picoline CAS #: 109-06-8									
2.838	2.829 (0.652)		93	216454	23.9918	1260	80.00- 120.00	100.00	
2.838	2.829 (0.652)		66	105710			21.06- 81.06	48.84	
2.837	2.829 (0.652)		92	55505			0.00- 56.50	25.64	
4 N-Nitrosomethylethylamine CAS #: 10595-95-6									
2.910	2.908 (0.669)		88	93407	24.2810	1270	80.00- 120.00	100.00	
2.913	2.908 (0.669)		43	41997			16.07- 76.07	44.96	
2.913	2.908 (0.669)		42	91558			71.13- 131.13	98.02	
5 Methyl Methanesulfonate CAS #: 66-27-3									
3.146	3.145 (0.723)		80	136756	21.5013	1130	80.00- 120.00	100.00	
3.146	3.145 (0.723)		79	83959			26.83- 86.83	61.39	
3.146	3.145 (0.723)		65	38602			0.00- 57.30	28.23	
7 N-Nitrosodiethylamine CAS #: 55-18-5									
3.460	3.457 (0.795)		102	93361	24.4867	1280	80.00- 120.00	100.00	
3.459	3.457 (0.795)		42	63469			38.24- 98.24	67.98	
3.459	3.457 (0.795)		57	38606			10.00- 70.00	41.35	
8 Ethyl Methanesulfonate CAS #: 62-50-0									
3.698	3.697 (0.850)		79	198602	30.0837	1580	80.00- 120.00	100.00	

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO	
					ON-COL (ug/ml)	FINAL (ug/kg)			
8 Ethyl Methanesulfonate (continued)									
3.698	3.697	(0.850)	109	99363			20.31-	80.31	50.03
3.699	3.697	(0.850)	97	36123			0.00-	49.02	18.19

12 Pentachloroethane					CAS #: 76-01-7				
4.114	4.112	(0.945)	167	77761	20.6379	1080	80.00-	120.00	100.00
4.113	4.112	(0.945)	117	55407			37.70-	97.70	71.25
4.113	4.112	(0.945)	130	32166			13.54-	73.54	41.37

* 18 1,4-Dichlorobenzene-d4					CAS #: 3855-82-1				
4.354	4.352	(1.000)	152	246458	40.0000		80.00-	120.00	100.00
4.353	4.352	(1.000)	115	157776			31.12-	91.12	64.02
4.354	4.352	(1.000)	150	395760			117.02-	177.02	160.58

24 N-Nitrosopyrrolidine					CAS #: 930-55-2				
4.699	4.695	(1.079)	100	124444	30.9622	1620	80.00-	120.00	100.00(Q)
4.706	4.695	(1.081)	41	193279			33.92-	93.92	155.31
4.706	4.695	(1.081)	42	192936			28.61-	88.61	155.04

25 Acetophenone					CAS #: 98-86-2				
4.711	4.708	(0.854)	105	699308	56.7109	2980	80.00-	120.00	100.00
4.711	4.708	(0.854)	77	811375			73.68-	133.68	116.03
4.711	4.708	(0.854)	51	214773			0.00-	57.35	30.71

27 N-Nitrosomorpholine					CAS #: 59-89-2				
4.727	4.725	(1.086)	56	134133	32.5950	1710	80.00-	120.00	100.00
4.728	4.725	(1.086)	116	42956			3.66-	63.66	32.02
4.727	4.725	(1.086)	86	90288			42.07-	102.07	67.31

29 o-Toluidine					CAS #: 95-53-4				
4.744	4.743	(1.090)	106	296926	22.6515	1190	80.00-	120.00	100.00
4.744	4.743	(1.090)	77	75779			0.00-	55.88	25.52
4.744	4.743	(1.090)	107	227803			44.03-	104.03	76.72

33 N-Nitrosopiperidine					CAS #: 100-75-4				
5.005	5.003	(0.907)	114	98922	27.7590	1460	80.00-	120.00	100.00
5.004	5.003	(0.907)	42	116429			81.37-	141.37	117.70
5.004	5.003	(0.907)	55	58775			28.82-	88.82	59.42

37 o,o,o-Triethylphosphorothioate					CAS #: 126-68-1				
5.250	5.247	(1.206)	198	157625	26.6110	1400	80.00-	120.00	100.00
5.249	5.247	(1.206)	97	99355			34.32-	94.32	63.03
5.248	5.247	(1.206)	65	78144			21.58-	81.58	49.58

39 a,a-Dimethylphenethylamine					CAS #: 122-09-8				
5.362	5.368	(0.972)	58	355961	28.4970	1500	80.00-	120.00	100.00(M)
5.362	5.368	(0.972)	91	132996			9.02-	69.02	37.36
5.362	5.368	(0.972)	65	74557			0.00-	48.82	20.95

* 43 Naphthalene-d8					CAS #: 1146-65-2				
5.516	5.513	(1.000)	136	819657	40.0000		80.00-	120.00	100.00
5.515	5.513	(1.000)	68	44105			0.00-	35.11	5.38

CONCENTRATIONS								
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
====	=====	=====	=====	=====	=====	=====	=====	=====
46 2,6-Dichlorophenol					CAS #: 87-65-0			
5.598	5.598	(1.015)	162	207433	30.2408	1590	80.00- 120.00	100.00
5.596	5.598	(1.015)	63	219338			46.91- 106.91	105.74
5.597	5.598	(1.015)	98	58679			0.00- 57.33	28.29

47 Hexachloropropene					CAS #: 1888-71-7			
5.619	5.618	(1.019)	213	124337	13.6197	715	80.00- 120.00	100.00
5.619	5.618	(1.019)	215	82530			33.47- 93.47	66.38
5.618	5.618	(1.018)	117	25896			0.00- 49.38	20.83

49 N-Nitrosodi-n-butylamine					CAS #: 924-16-3			
5.901	5.901	(1.070)	84	220951	33.4618	1760	80.00- 120.00	100.00
5.901	5.901	(1.070)	57	110105			28.87- 88.87	49.83
5.901	5.901	(1.070)	41	128206			22.24- 82.24	58.02

52 Isosafrole					CAS #: 120-58-1			
6.110	6.108	(1.108)	162	188254	28.3345	1490	80.00- 120.00	100.00
6.109	6.108	(1.108)	104	142780			45.08- 105.08	75.84
6.109	6.108	(1.108)	131	89336			17.53- 77.53	47.46

56 1,2,4,5-Tetrachlorobenzene					CAS #: 95-94-3			
6.359	6.358	(0.882)	216	293975	26.1684	1370	80.00- 120.00	100.00
6.359	6.358	(0.882)	214	229892			47.88- 107.88	78.20
6.358	6.358	(0.882)	108	53469			0.00- 46.90	18.19

60 Safrole					CAS #: 94-59-7			
6.612	6.610	(1.199)	162	202823	32.5207	1710	80.00- 120.00	100.00
6.612	6.610	(1.199)	104	127616			32.51- 92.51	62.92
6.612	6.610	(1.199)	77	80786			9.98- 69.98	39.83

64 1,4-Naphthoquinone					CAS #: 130-15-4			
6.841	6.838	(0.949)	158	25578	4.03331	212	80.00- 120.00	100.00
6.839	6.838	(0.948)	102	21509			54.85- 114.85	84.09
6.839	6.838	(0.948)	130	11477			16.10- 76.10	44.87

66 1,3-Dinitrobenzene					CAS #: 99-65-0			
6.981	6.977	(0.968)	168	88216	29.4146	1540	80.00- 120.00	100.00
6.980	6.977	(0.968)	75	111853			99.26- 159.26	126.79
6.979	6.977	(0.968)	50	60690			41.55- 101.55	68.80

* 70 Acenaphthene-d10					CAS #: 15067-26-2			
7.210	7.208	(1.000)	164	592881	40.0000		80.00- 120.00	100.00
7.211	7.208	(1.000)	162	576080			66.36- 126.36	97.17
7.210	7.208	(1.000)	160	257822			14.03- 74.03	43.49

73 Pentachlorobenzene					CAS #: 608-93-5			
7.374	7.372	(1.023)	250	325780	29.7404	1560	80.00- 120.00	100.00
7.374	7.372	(1.023)	252	209009			35.99- 95.99	64.16
7.372	7.372	(1.022)	108	85759			0.00- 57.33	26.32

77 1-Naphthylamine					CAS #: 134-32-7			
7.489	7.487	(1.039)	143	329649	31.7984	1670	80.00- 120.00	100.00
7.489	7.487	(1.039)	115	188425			28.87- 88.87	57.16

CONCENTRATIONS								
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====
77 1-Naphthylamine (continued)								
7.489	7.487	(1.039)	89	42658			0.00- 42.36	12.94

78 2,3,4,6-Tetrachlorophenol CAS #: 58-90-2								
7.539	7.538	(1.046)	232	169517	28.1706	1480	80.00- 120.00	100.00
7.538	7.538	(1.045)	168	43826			0.00- 56.41	25.85
7.538	7.538	(1.045)	131	71666			9.55- 69.55	42.28

79 2-Naphthylamine CAS #: 91-59-8								
7.567	7.566	(1.049)	143	292963	21.5593	1130	80.00- 120.00	100.00
7.567	7.566	(1.049)	115	177258			27.34- 87.34	60.51
7.567	7.566	(1.049)	116	64352			0.00- 51.96	21.97

83 5-Nitro-ortho-toluidine CAS #: 99-55-8								
7.765	7.763	(1.077)	152	151555	28.7169	1510	80.00- 120.00	100.00(R)
7.765	7.763	(1.077)	106	113698			43.31- 103.31	75.02
7.764	7.763	(1.077)	77	182761			98.11- 158.11	120.59

90 1,3,5-Trinitrobenzene CAS #: 99-35-4								
8.138	8.132	(1.129)	75	166963	14.2139	746	80.00- 120.00	100.00
8.138	8.132	(1.129)	74	102941			32.42- 92.42	61.65
8.140	8.132	(1.129)	213	59498			7.82- 67.82	35.64

89 Diallate CAS #: 2303-16-4								
8.140	8.140	(1.129)	86	206746	28.0798	1470	80.00- 120.00	100.00(M)
8.140	8.140	(1.129)	43	206244			69.18- 129.18	99.76
8.140	8.140	(1.129)	234	142496			41.29- 101.29	68.92

92 Phenacetin CAS #: 62-44-2								
8.173	8.176	(0.943)	109	267444	30.9822	1620	80.00- 120.00	100.00
8.173	8.176	(0.943)	108	301916			83.43- 143.43	112.89
8.173	8.176	(0.943)	179	177475			37.04- 97.04	66.36

91 p-Phenylenediamine CAS #: 106-50-3								
8.173	8.175	(0.943)	108	301916	31.9387	1680	80.00- 120.00	100.00
8.173	8.175	(0.943)	80	85119			0.00- 58.28	28.19
8.172	8.175	(0.943)	53	35346			0.00- 42.98	11.71

97 Pentachloronitrobenzene CAS #: 82-68-8								
8.498	8.496	(0.981)	237	142959	32.1375	1690	80.00- 120.00	100.00
8.499	8.496	(0.981)	295	50921			8.79- 68.79	35.62
8.497	8.496	(0.981)	142	95571			40.35- 100.35	66.85

98 4-Aminobiphenyl CAS #: 92-67-1								
8.483	8.483	(0.979)	169	614435	28.7014	1510	80.00- 120.00	100.00
8.483	8.483	(0.979)	168	131639			0.00- 52.22	21.42
8.482	8.483	(0.979)	115	71464			0.00- 42.15	11.63

99 Pronamide CAS #: 23950-58-5								
8.541	8.541	(0.986)	173	315949	29.6724	1560	80.00- 120.00	100.00
8.541	8.541	(0.986)	175	205075			35.20- 95.20	64.91
8.541	8.541	(0.986)	145	122745			8.71- 68.71	38.85

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	ON-COL		FINAL	TARGET RANGE	RATIO	
				RESPONSE	(ug/ml)	(ug/kg)			
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 100 Phenanthrene-d10					CAS #: 1517-22-2				
8.666	8.665	(1.000)	188	1239068	40.0000		80.00- 120.00	100.00	
8.664	8.665	(1.000)	94	75429			0.00- 36.25	6.09	
8.664	8.665	(1.000)	80	95225			0.00- 37.67	7.69	

102 Dinoseb					CAS #: 88-85-7				
8.662	8.662	(1.000)	211	162266	24.6309	1290	80.00- 120.00	100.00	
8.662	8.662	(1.000)	163	57915			8.78- 68.78	35.69	
8.661	8.662	(0.999)	117	39300			0.00- 52.24	24.22	

106 4-Nitroquinoline-1-oxide					CAS #: 56-57-5				
9.449	9.448	(1.090)	174	3123	8.54148	448	80.00- 120.00	100.00(Q)	
9.449	9.448	(1.090)	128	6971			211.46- 271.46	223.21	
9.449	9.448	(1.090)	101	11419			382.79- 442.79	365.64	

107 Methapyrilene					CAS #: 91-80-5				
9.525	9.517	(1.099)	97	176289	424.879	22300	80.00- 120.00	100.00(AR)	
9.525	9.517	(1.099)	58	170625			67.15- 127.15	96.79	
9.526	9.517	(1.099)	191	28259			0.00- 49.02	16.03	

108 Isodrin					CAS #: 465-73-6				
9.706	9.704	(1.120)	193	78849	20.8805	1100	80.00- 120.00	100.00(Q)	
9.706	9.704	(1.120)	66	84977			61.45- 121.45	107.77	
9.706	9.704	(1.120)	195	43546			55.48- 115.48	55.23	

113 Aramite					CAS #: 140-57-8				
10.277	10.277	(0.912)	185	111440	24.6474	1290	80.00- 120.00	100.00(M)	
10.277	10.277	(0.912)	191	57157			21.99- 81.99	51.29	
10.202	10.277	(0.906)	319	40130			7.24- 67.24	36.01	

114 p-Dimethylamino azobenzene					CAS #: 60-11-7				
10.368	10.368	(0.921)	225	250917	22.5136	1180	80.00- 120.00	100.00	
10.367	10.368	(0.920)	120	218582			57.09- 117.09	87.11	
10.366	10.368	(0.920)	77	258566			70.49- 130.49	103.05	

115 Chlorobenzilate					CAS #: 510-15-6				
10.411	10.411	(0.924)	251	421955	24.4907	1280	80.00- 120.00	100.00	
10.411	10.411	(0.924)	253	273145			35.14- 95.14	64.73	
10.410	10.411	(0.924)	139	368711			56.67- 116.67	87.38	

117 3,3-Dimethylbenzidine					CAS #: 119-93-7				
10.699	10.700	(0.950)	212	436820	12.9026	677	80.00- 120.00	100.00	
10.700	10.700	(0.950)	106	35555			0.00- 36.31	8.14	
10.699	10.700	(0.950)	180	30906			0.00- 37.76	7.08	

119 2-Acetylaminofluorene					CAS #: 53-96-3				
10.949	10.950	(0.972)	181	470721	24.1158	1260	80.00- 120.00	100.00	
10.950	10.950	(0.972)	223	310913			35.79- 95.79	66.05	
10.949	10.950	(0.972)	180	404559			56.81- 116.81	85.94	

* 121 Chrysene-d12					CAS #: 1719-03-5				
11.263	11.259	(1.000)	240	1893971	40.0000		80.00- 120.00	100.00	
11.261	11.259	(1.000)	120	106798			0.00- 34.90	5.64	

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	
* 121 Chrysene-d12 (continued)									
11.263	11.259	(1.000)	236	513688			0.00- 56.56	27.12	

126 7,12-Dimethylbenz(a)anthracen					CAS #: 57-97-6				
12.236	12.227	(0.972)	256	625467	27.1581	1420	80.00- 120.00	100.00	
12.236	12.227	(0.972)	241	350133			26.83- 86.83	55.98	
12.236	12.227	(0.972)	239	289026			16.14- 76.14	46.21	

* 130 Perylene-d12					CAS #: 1520-96-3				
12.585	12.576	(1.000)	264	1617919	40.0000		80.00- 120.00	100.00	
12.585	12.576	(1.000)	260	401704			0.00- 54.67	24.83	
12.585	12.576	(1.000)	265	384900			0.00- 53.09	23.79	

131 3-Methylcholanthrene					CAS #: 56-49-5				
12.842	12.836	(1.020)	268	694598	26.7785	1400	80.00- 120.00	100.00	
12.842	12.836	(1.020)	252	293377			12.97- 72.97	42.24	
12.841	12.836	(1.020)	253	237498			7.46- 67.46	34.19	

132 Dibenz(a,j)acridine					CAS #: 224-42-0				
13.418	13.410	(1.066)	279	883757	23.6856	1240	80.00- 120.00	100.00	
13.418	13.410	(1.066)	280	223769			0.00- 54.26	25.32	
13.418	13.410	(1.066)	277	141032			0.00- 45.41	15.96	

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

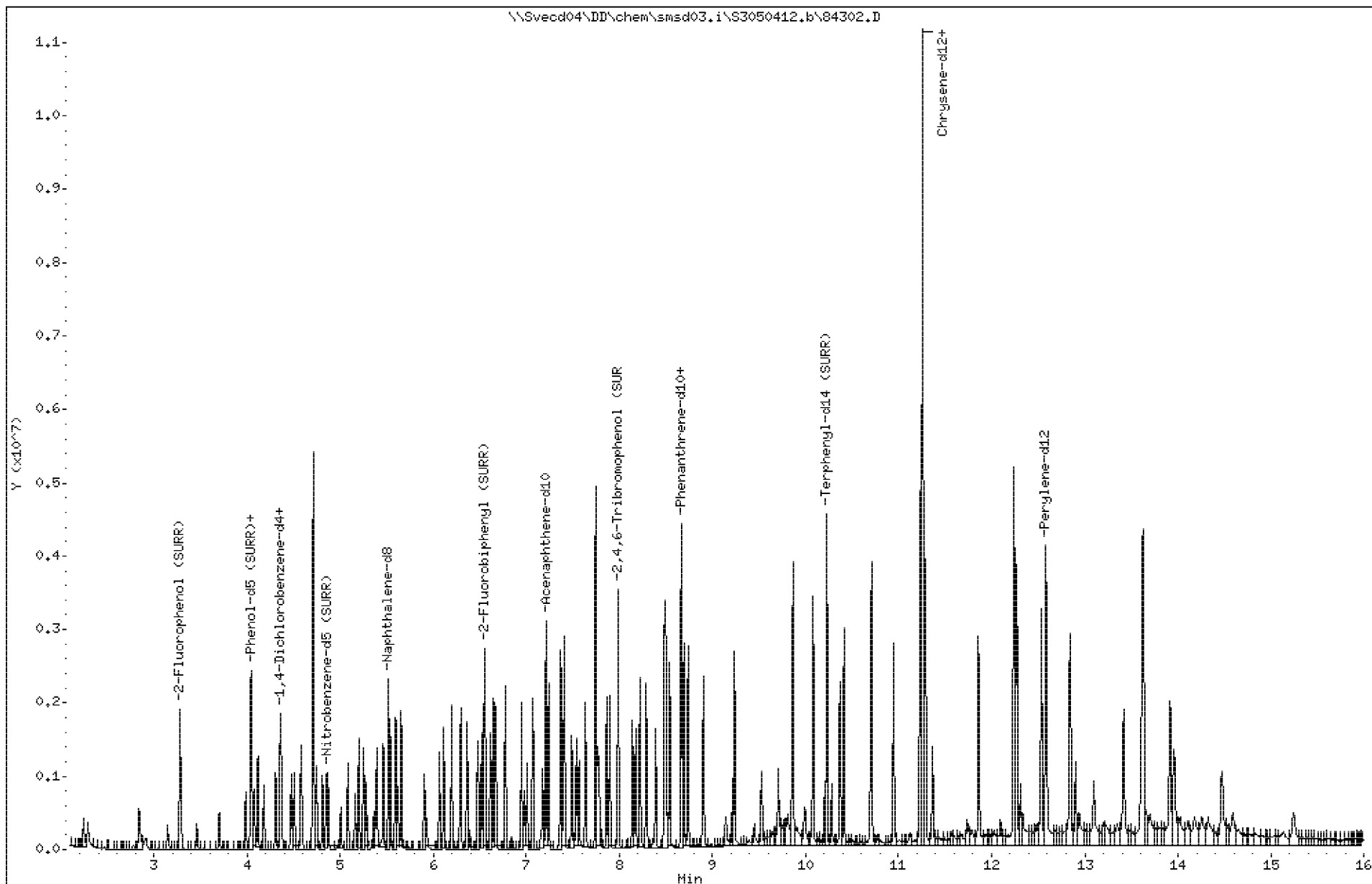
Instrument: smsd03.i

Sample Info: SN350584302

Operator: MJ

Column phase: HPMS-5

Column diameter: 0.25



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

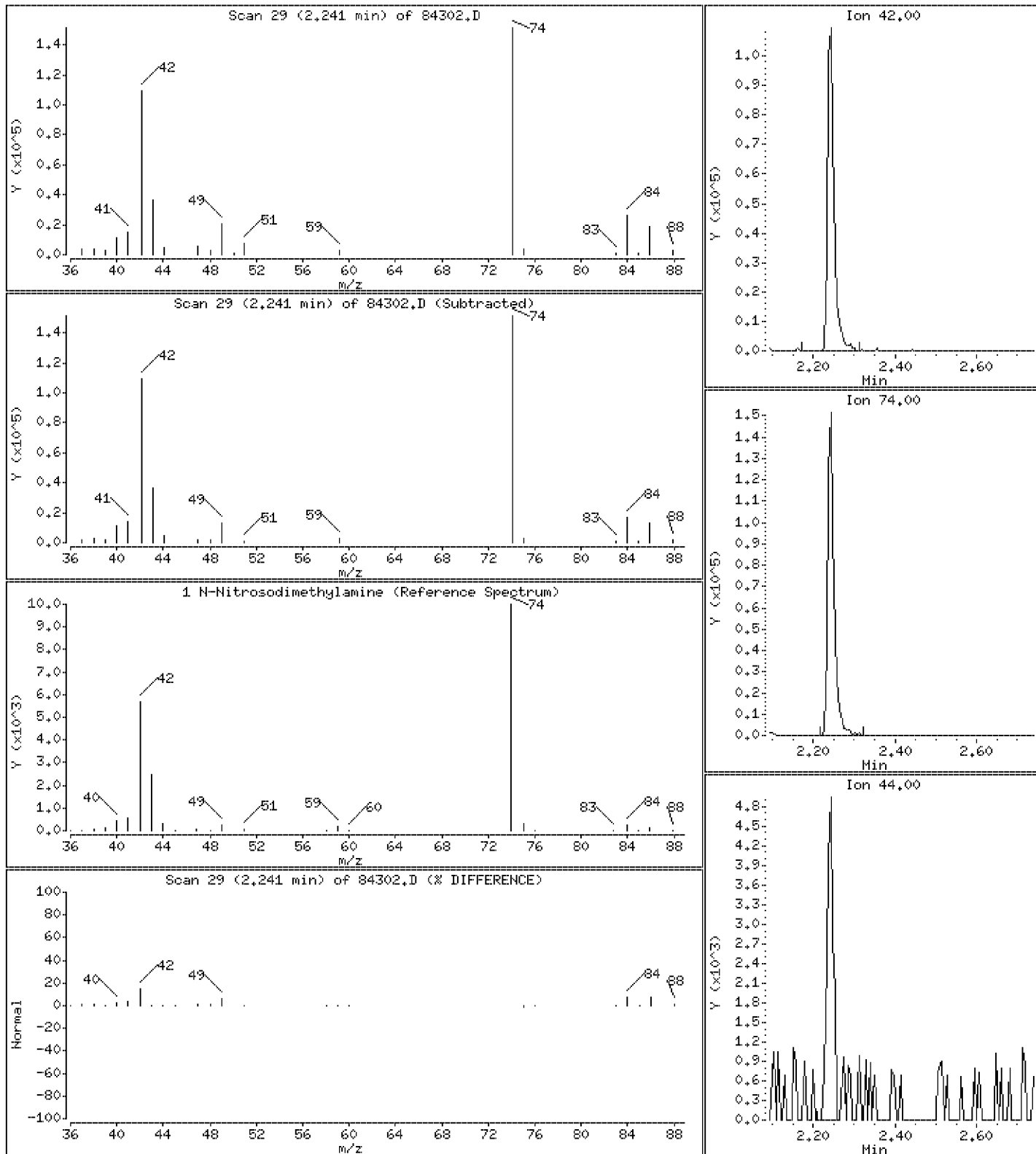
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

1 N-Nitrosodimethylamine

Concentration: 1570 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

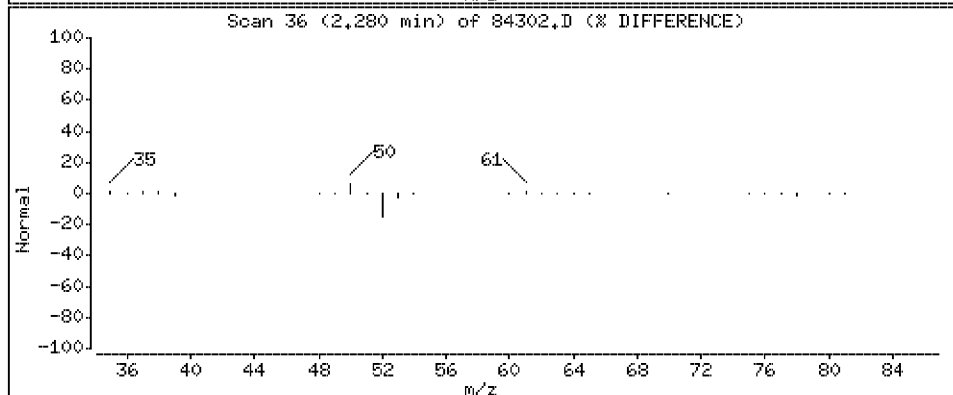
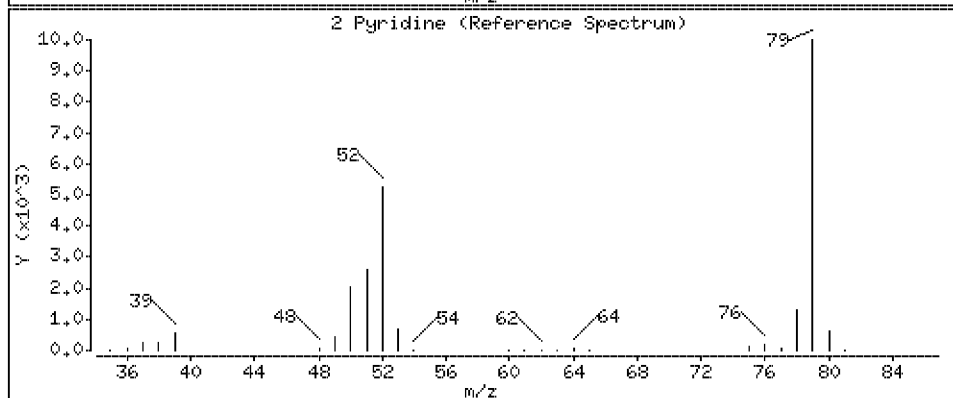
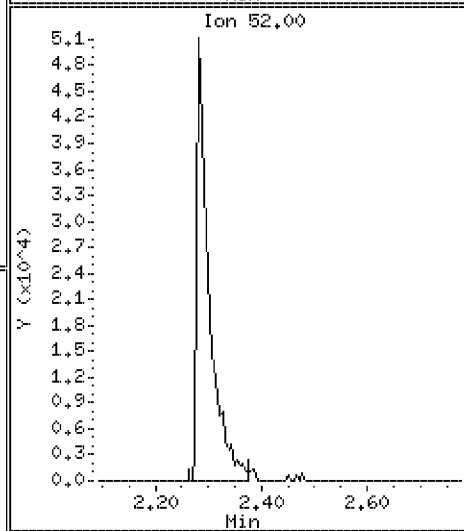
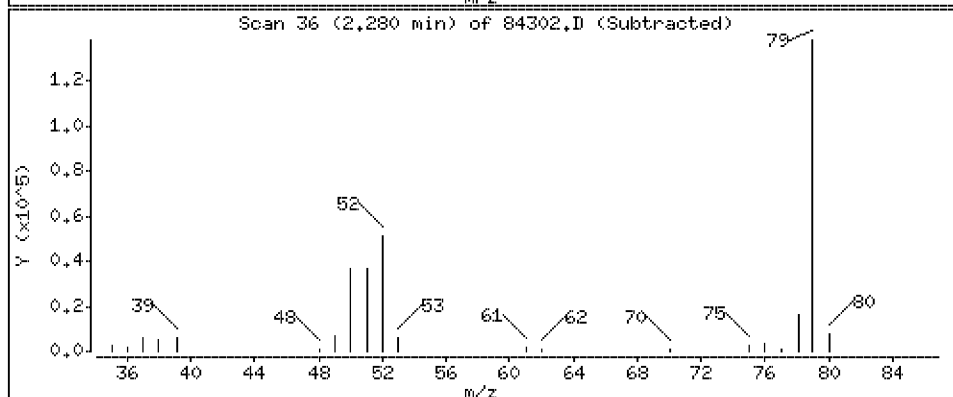
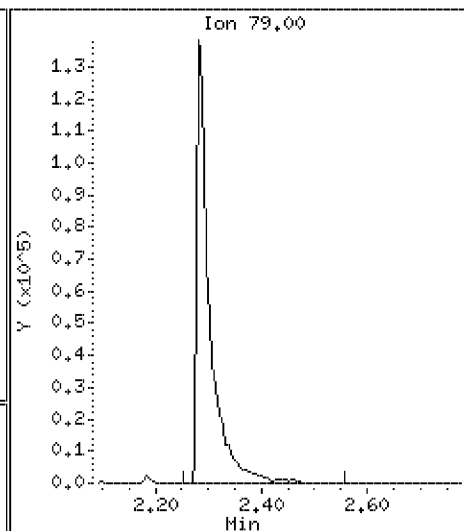
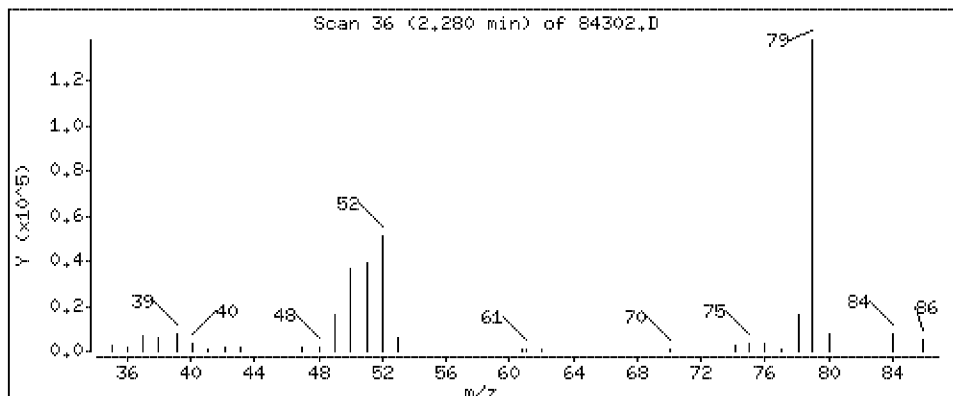
Operator: MJ

Column phase: HPMS-5

Column diameter: 0.25

2 Pyridine

Concentration: 1320 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

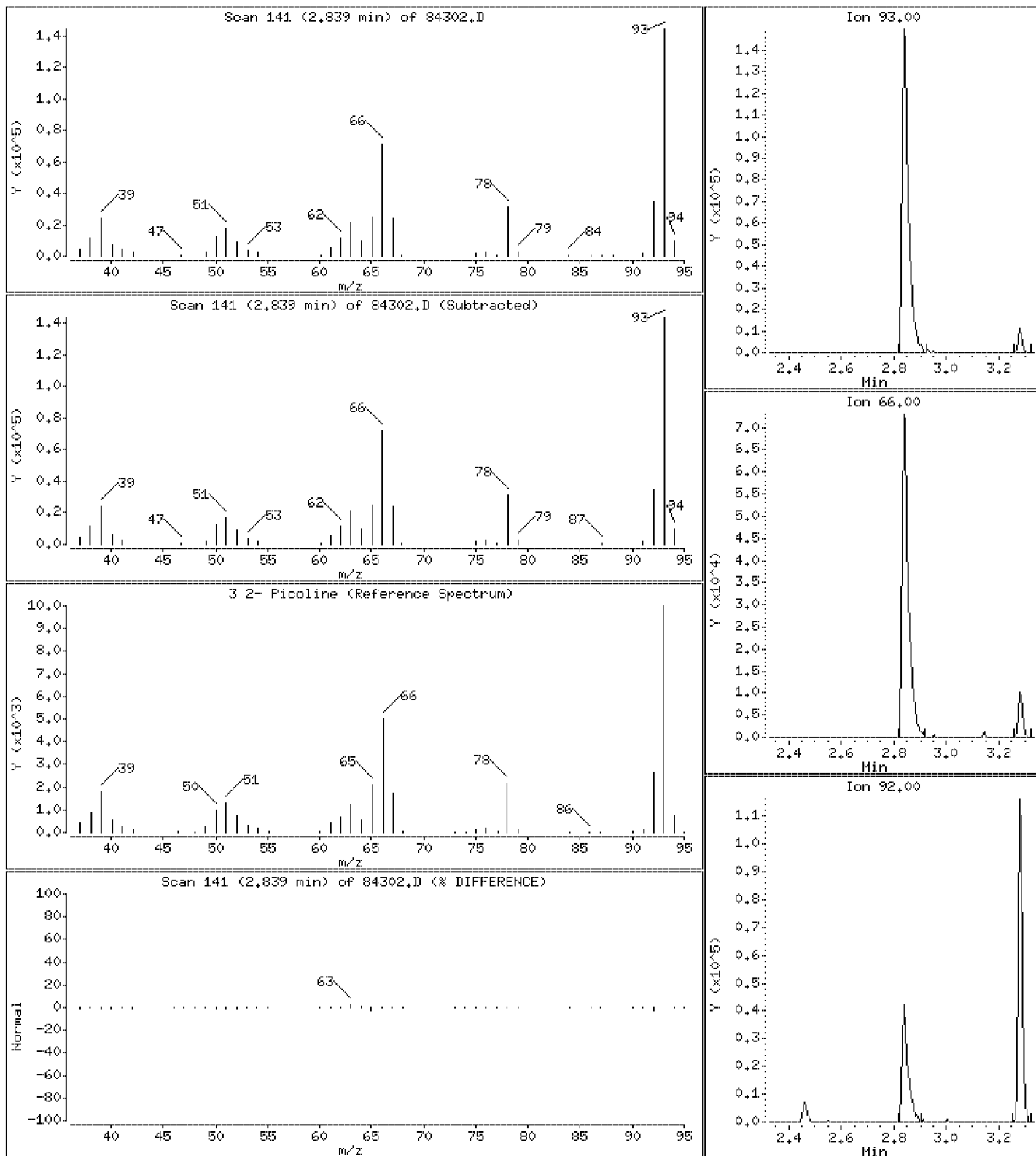
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

3 2- Picoline

Concentration: 1260 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

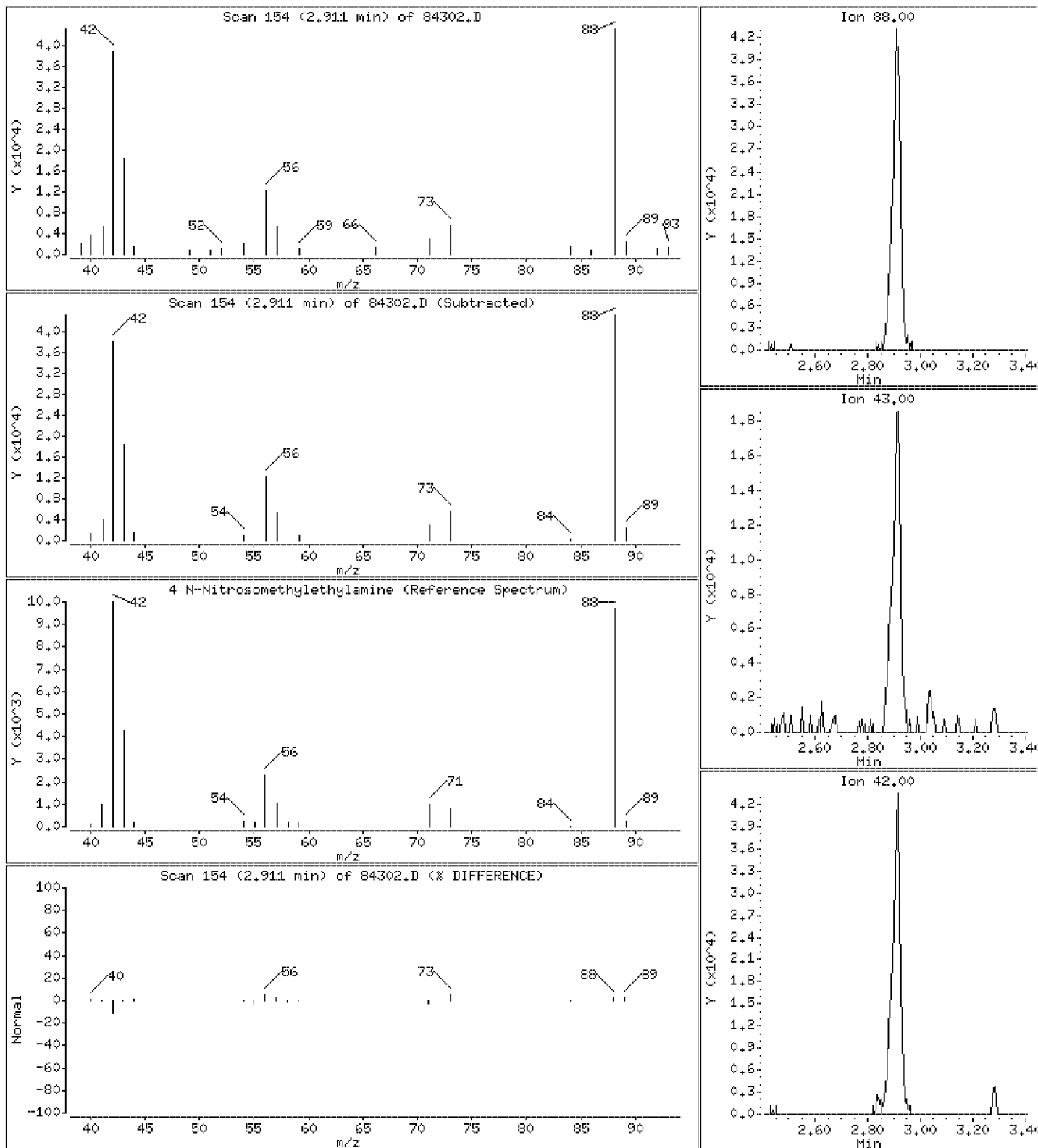
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

4 N-Nitrosomethylethylamine

Concentration: 1270 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

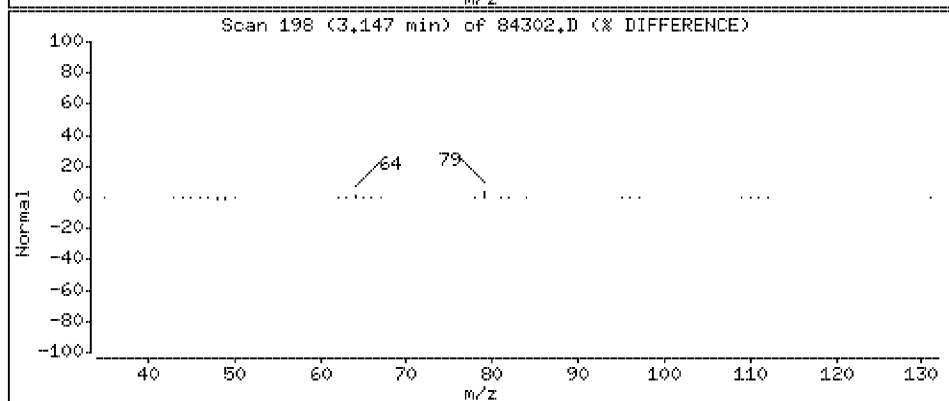
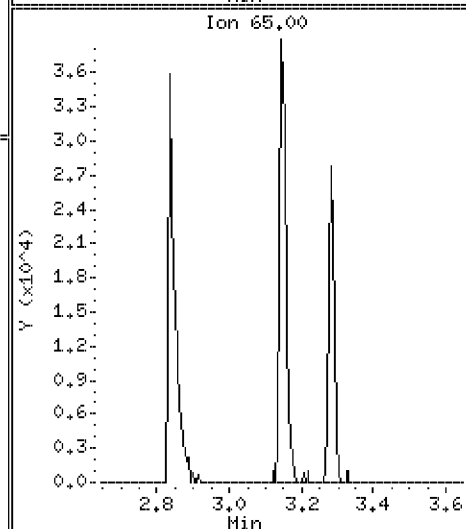
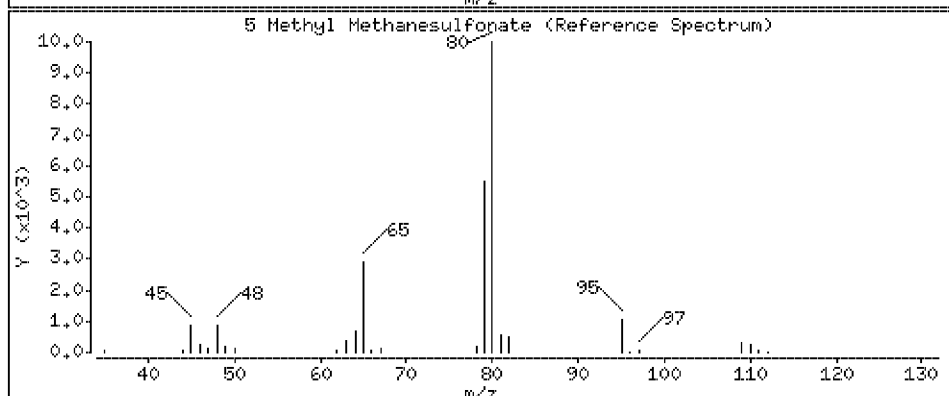
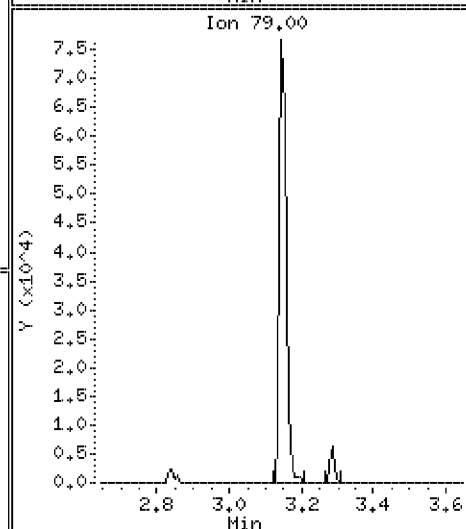
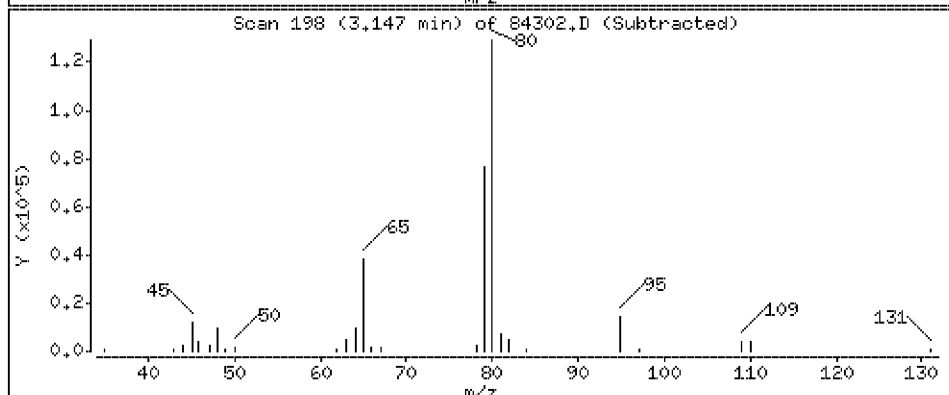
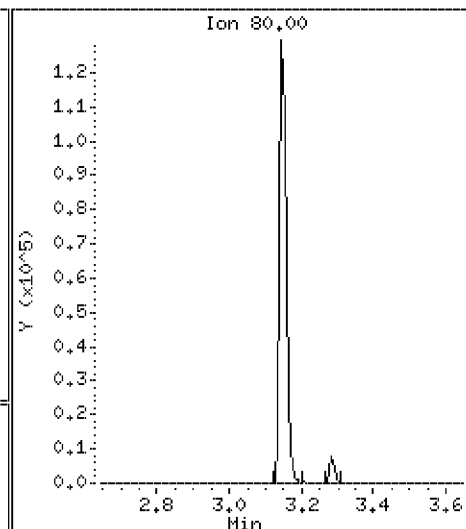
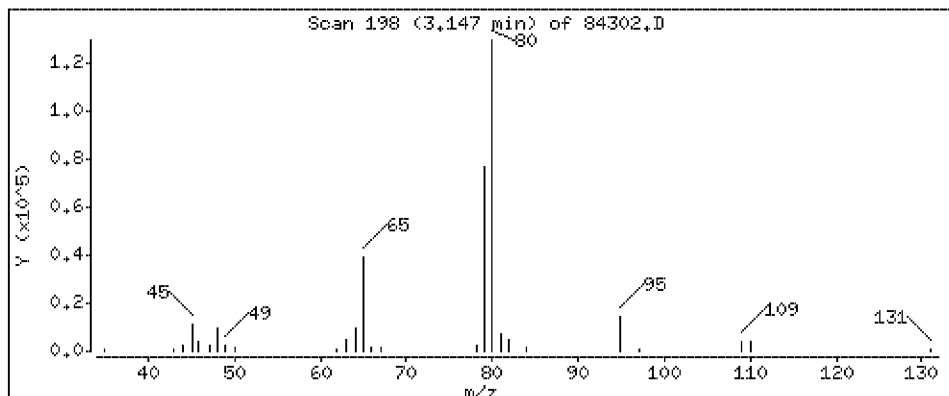
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

5 Methyl Methanesulfonate

Concentration: 1130 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

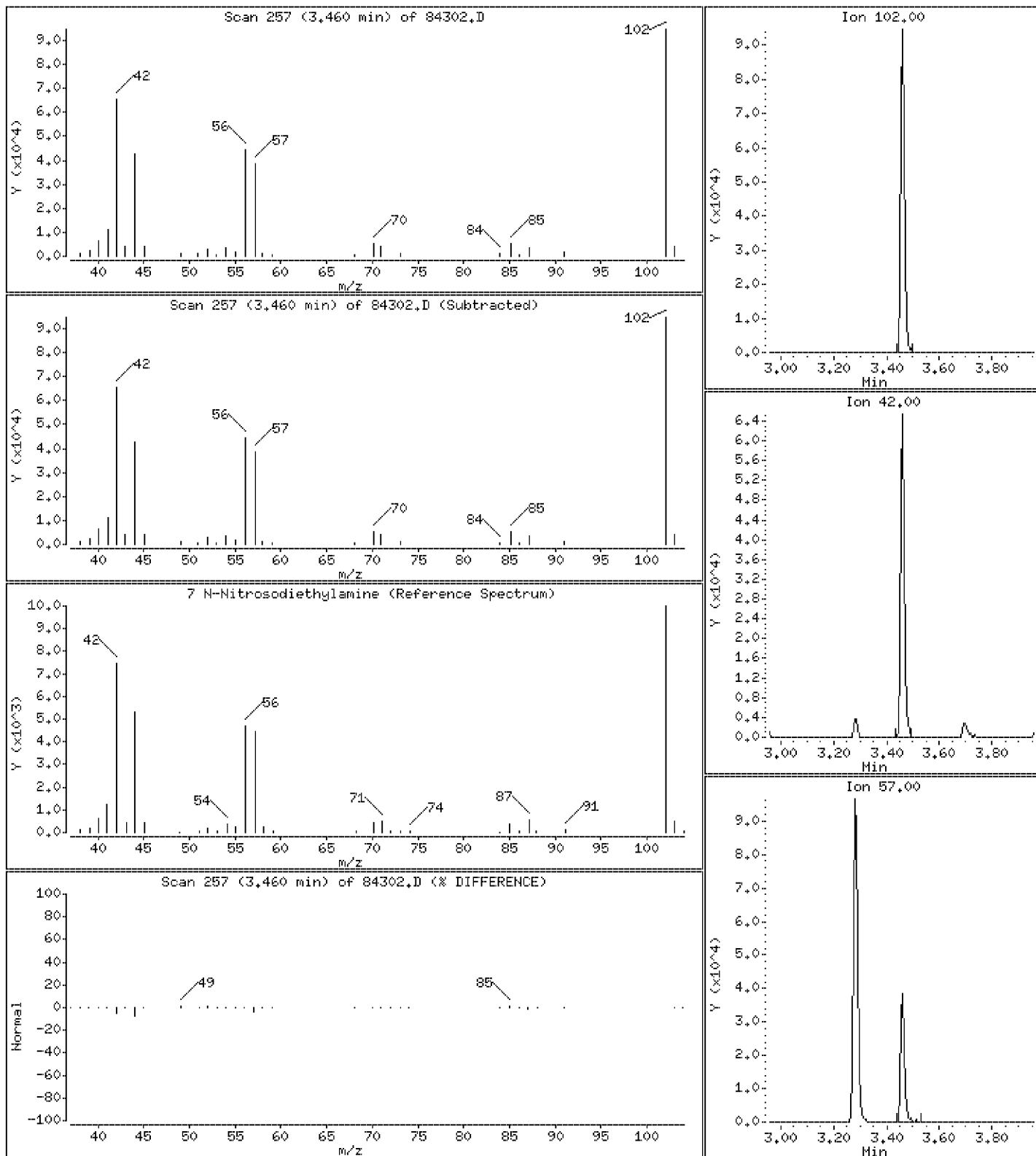
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

7 N-Nitrosodiethylamine

Concentration: 1280 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

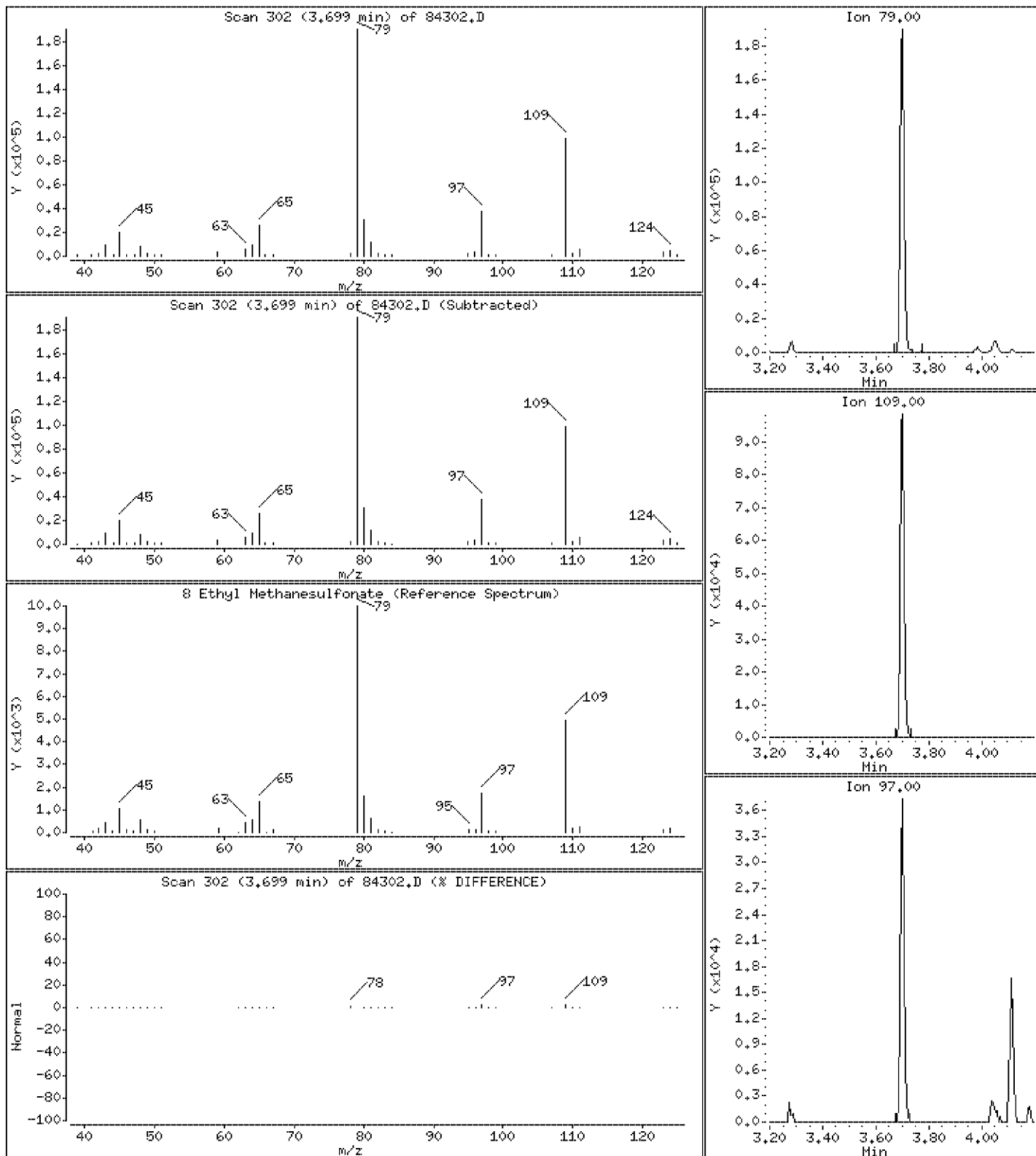
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

8 Ethyl Methanesulfonate

Concentration: 1580 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

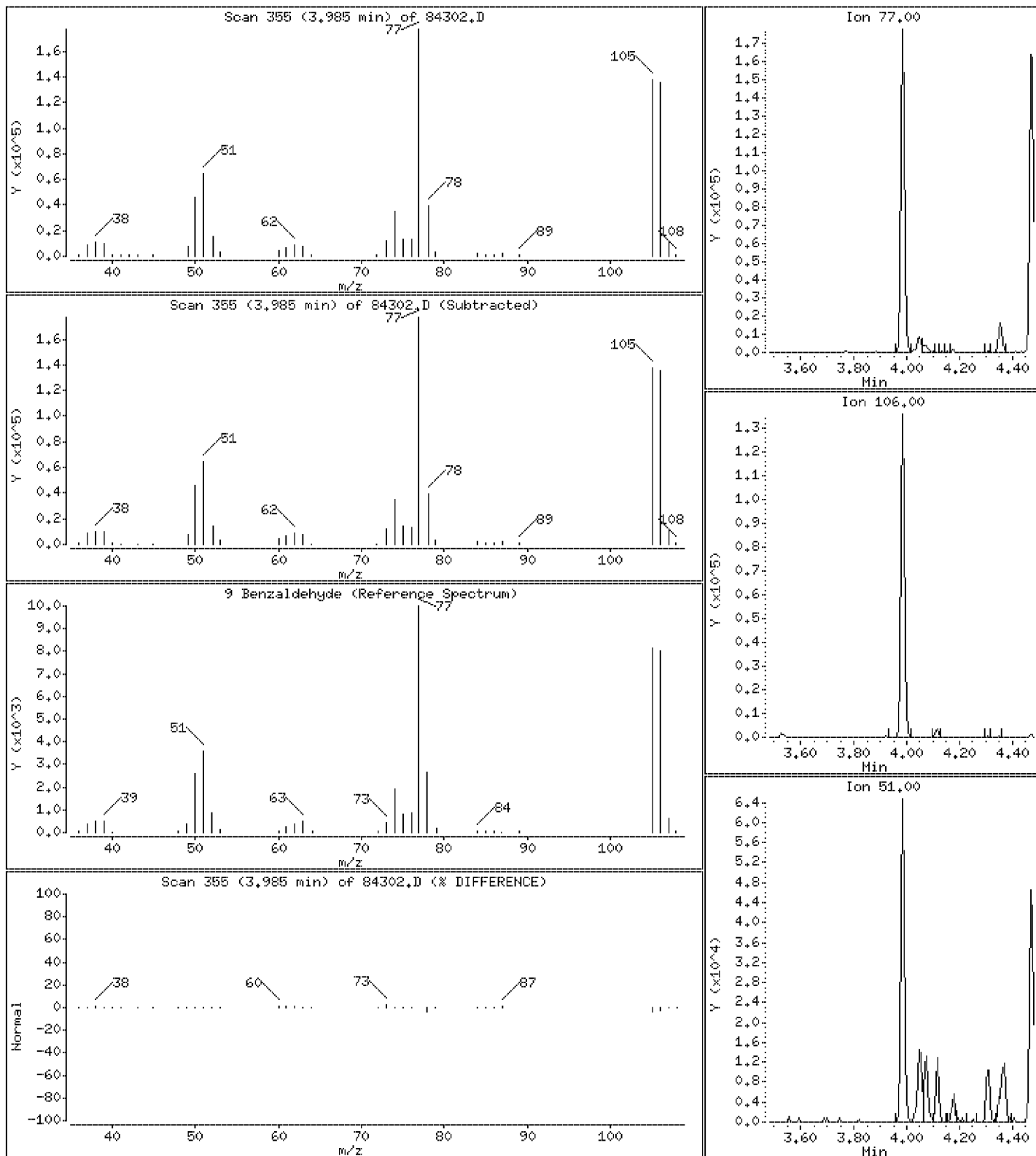
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

9 Benzaldehyde

Concentration: 1200 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

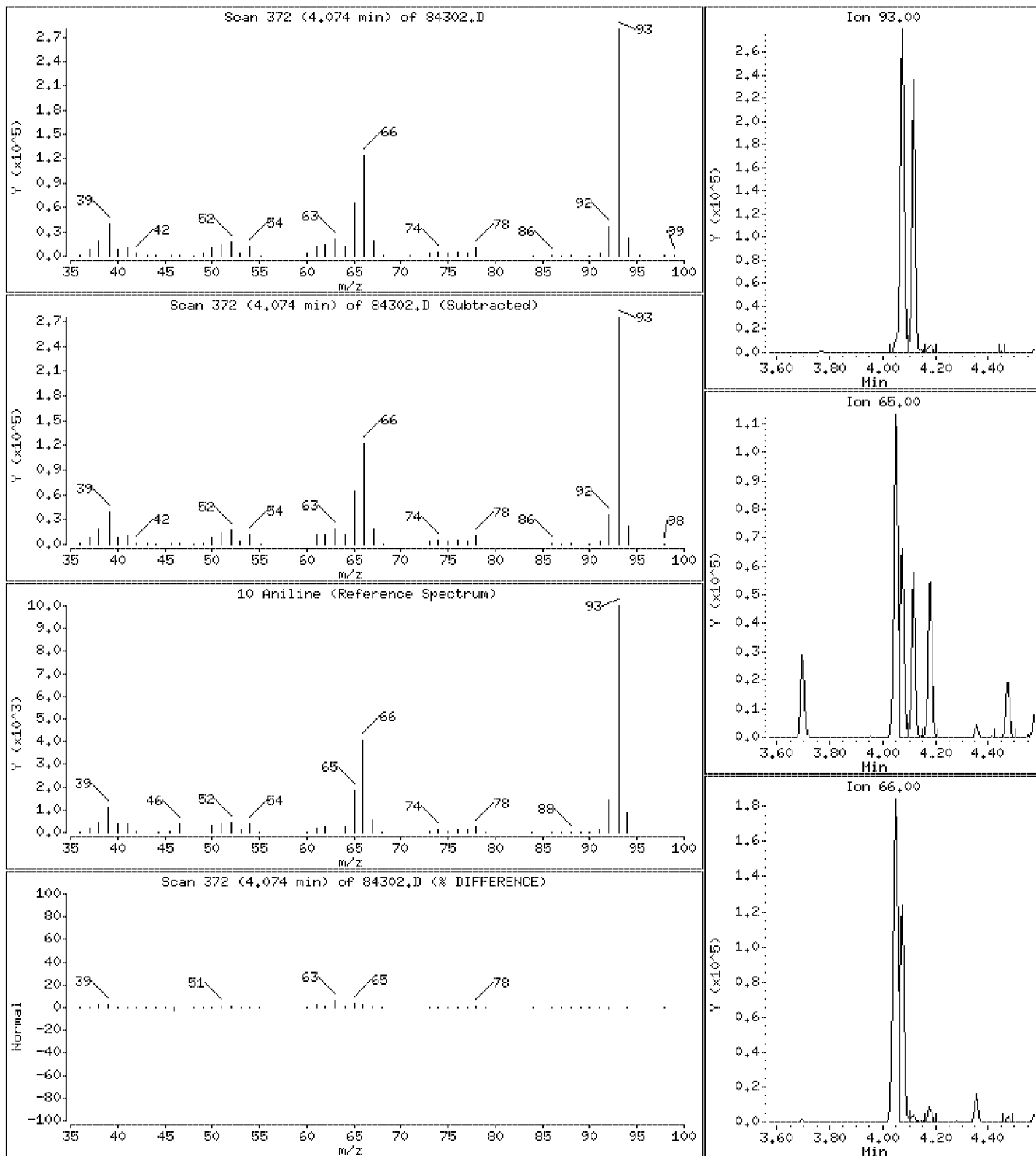
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

10 Aniline

Concentration: 1340 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

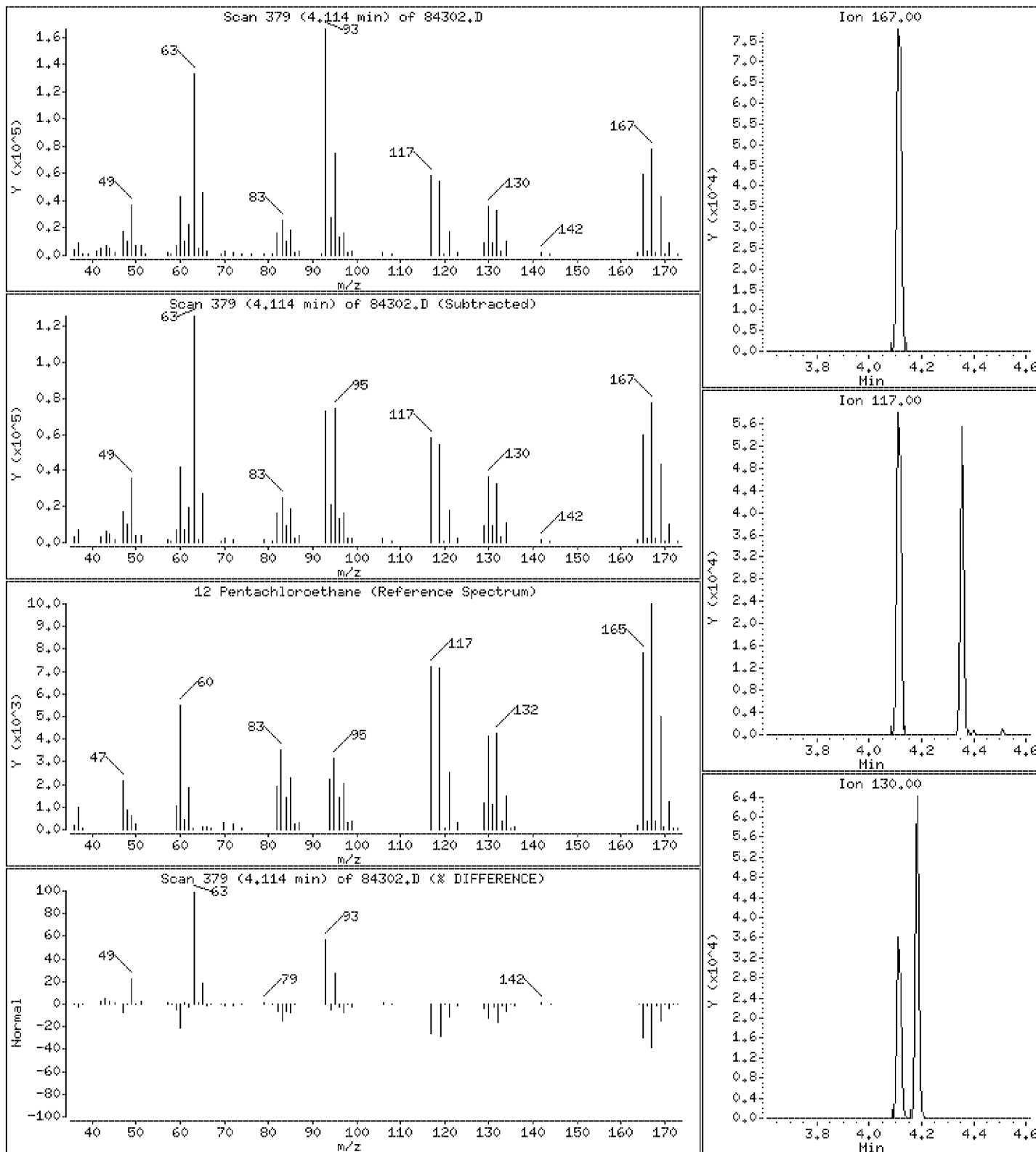
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

12 Pentachloroethane

Concentration: 1080 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

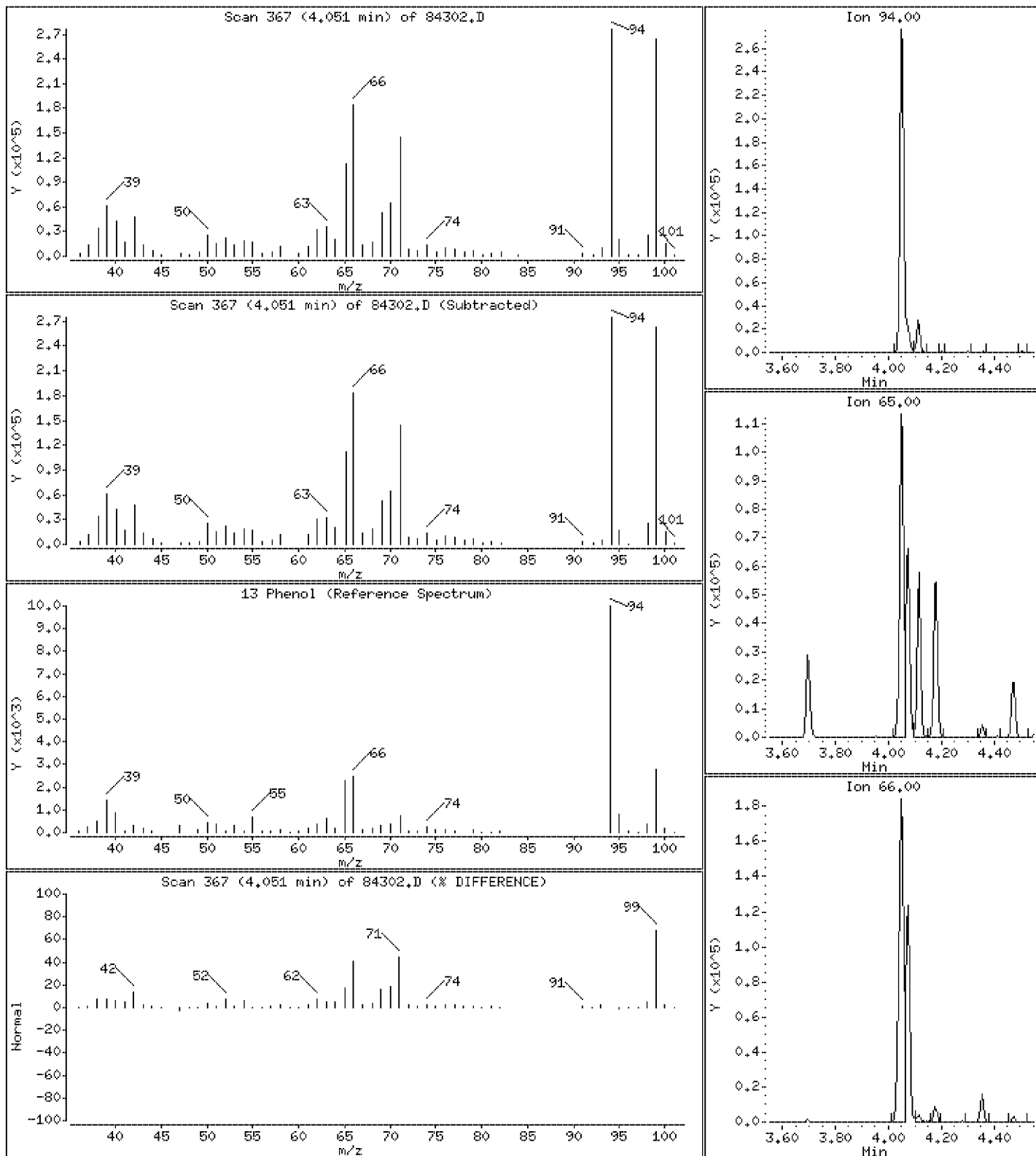
Operator: MJ

Column phase: HPMS-5

Column diameter: 0.25

13 Phenol

Concentration: 1440 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

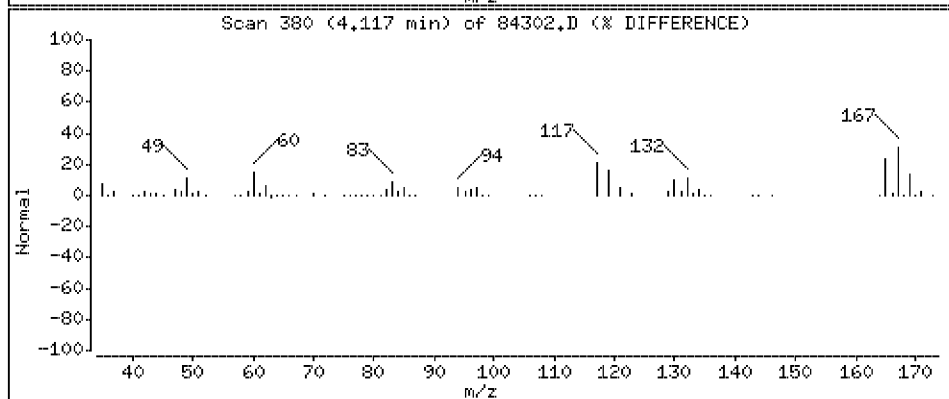
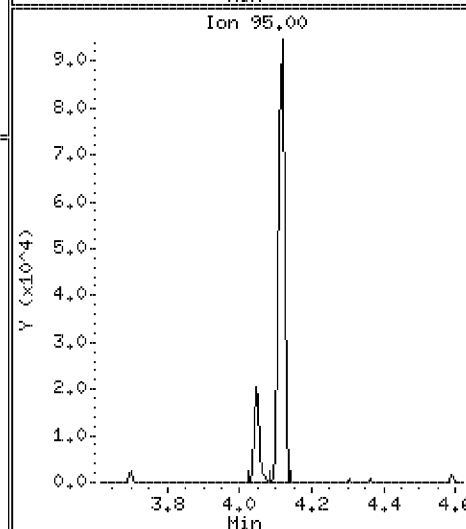
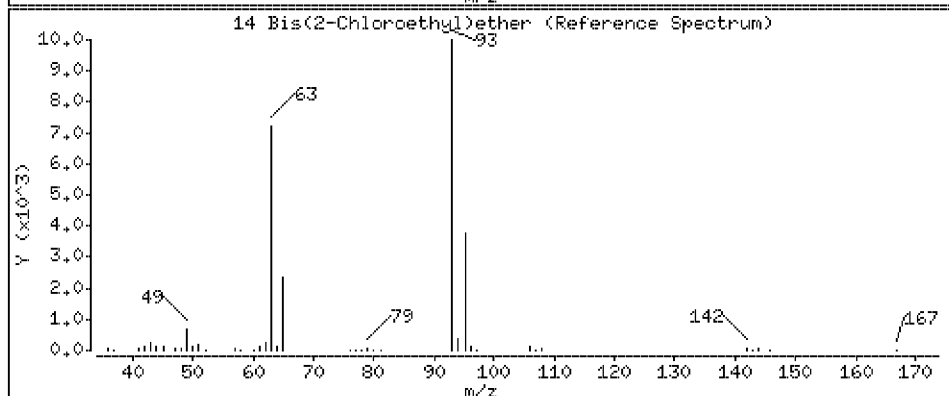
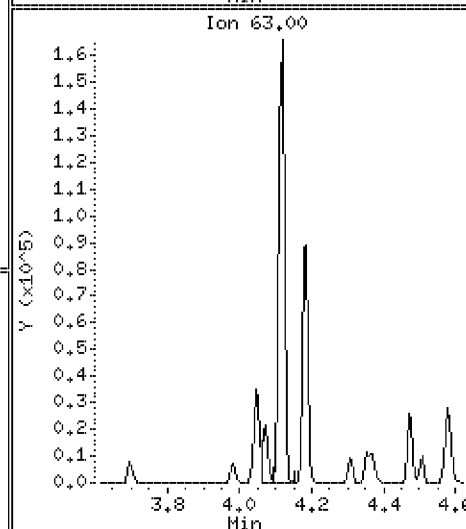
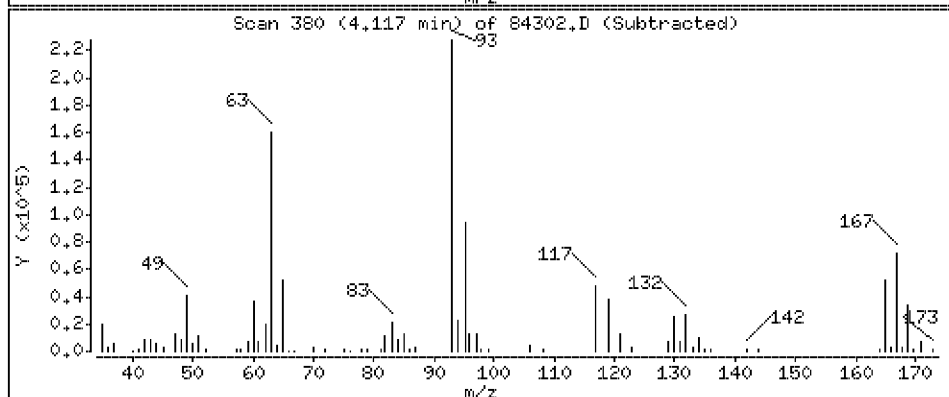
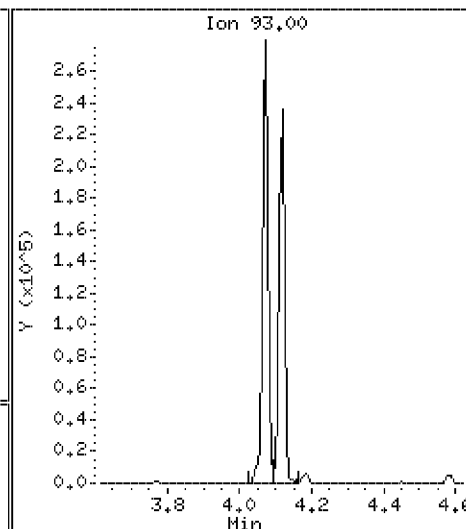
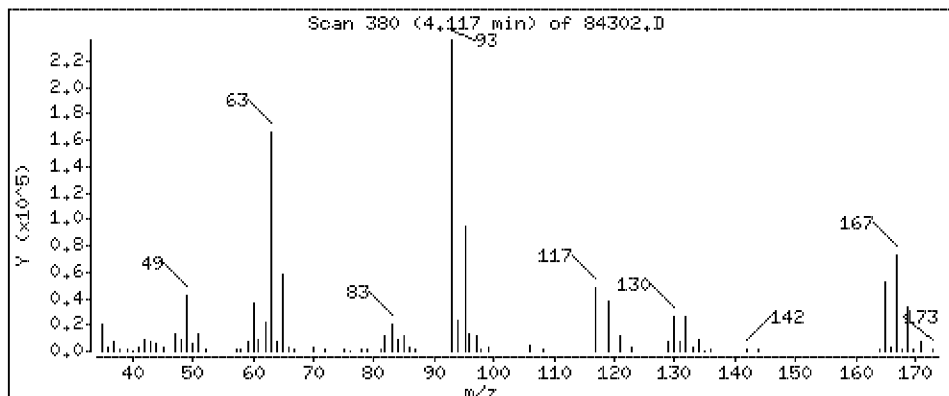
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

14 Bis(2-Chloroethyl)ether

Concentration: 1550 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

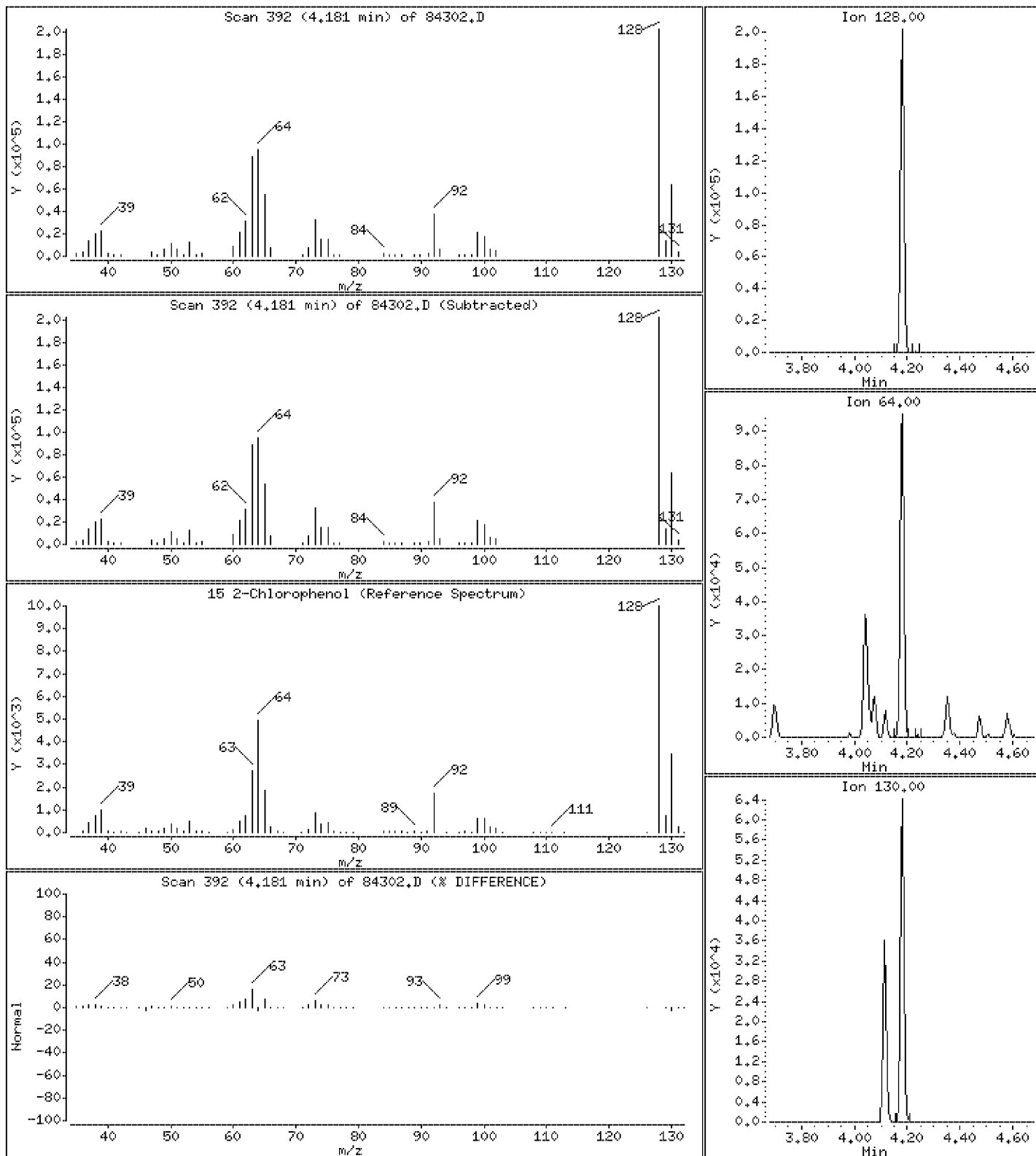
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

15 2-Chlorophenol

Concentration: 1380 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

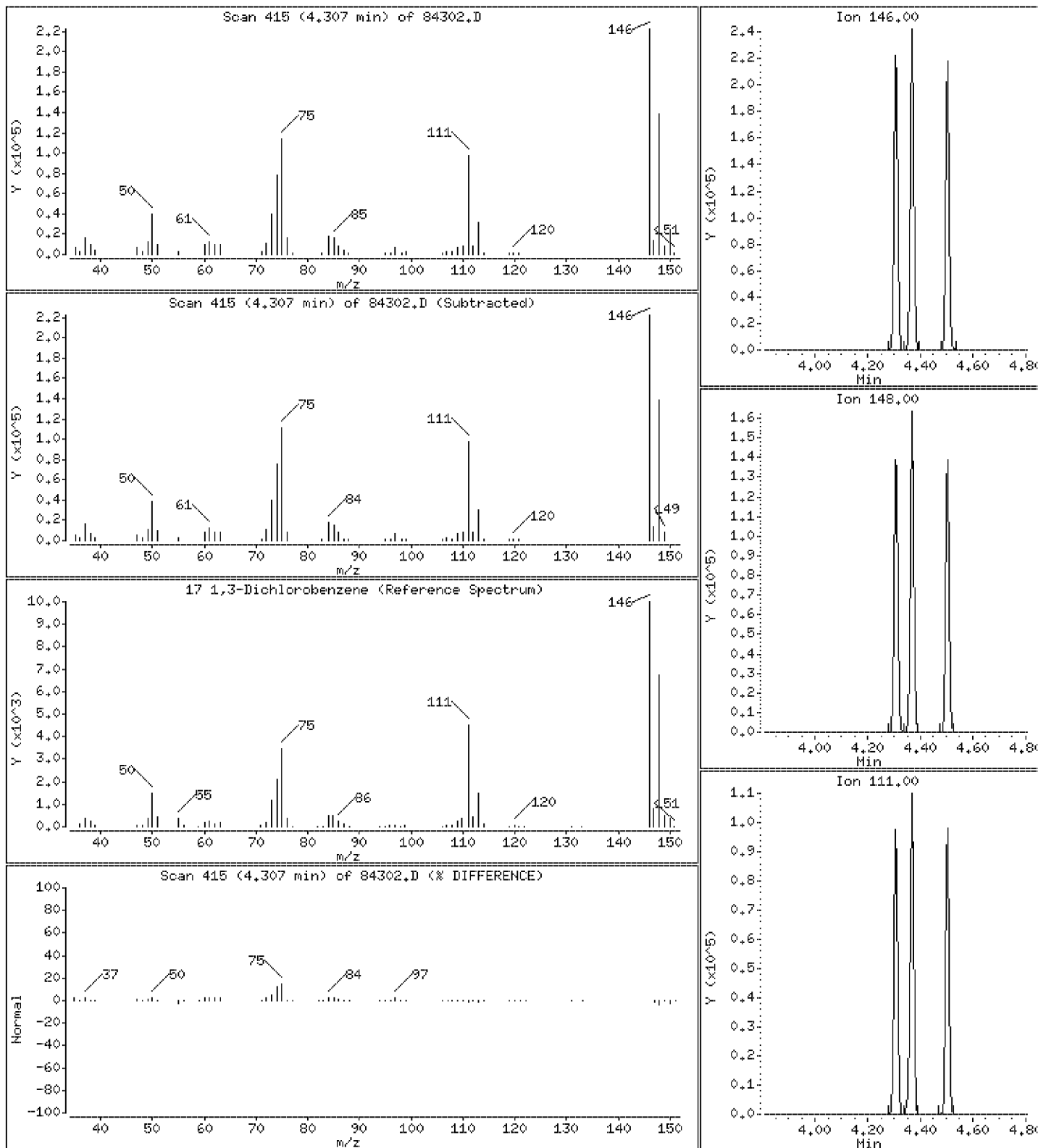
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

17 1,3-Dichlorobenzene

Concentration: 1280 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

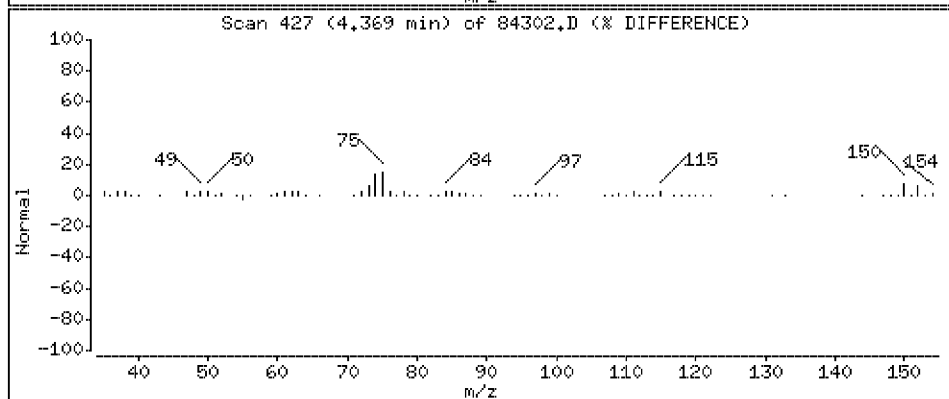
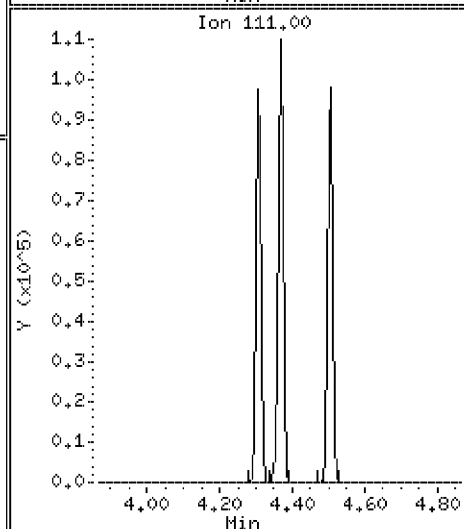
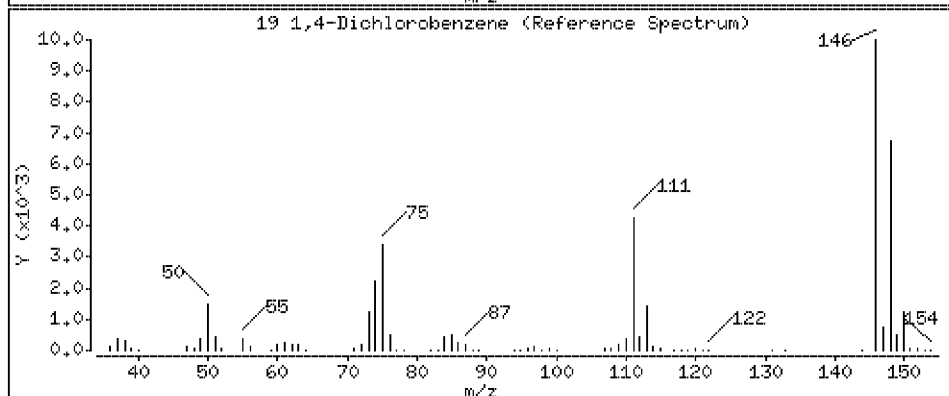
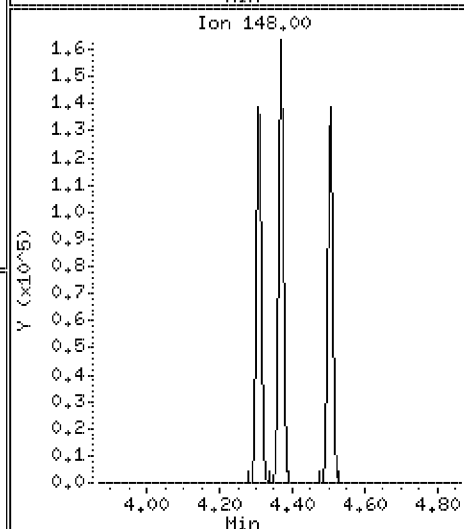
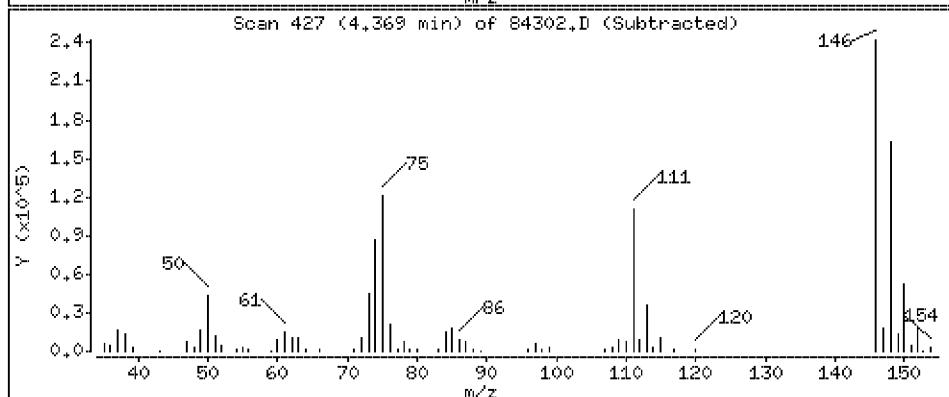
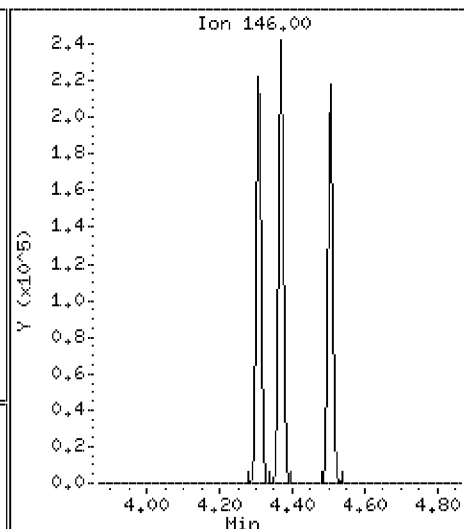
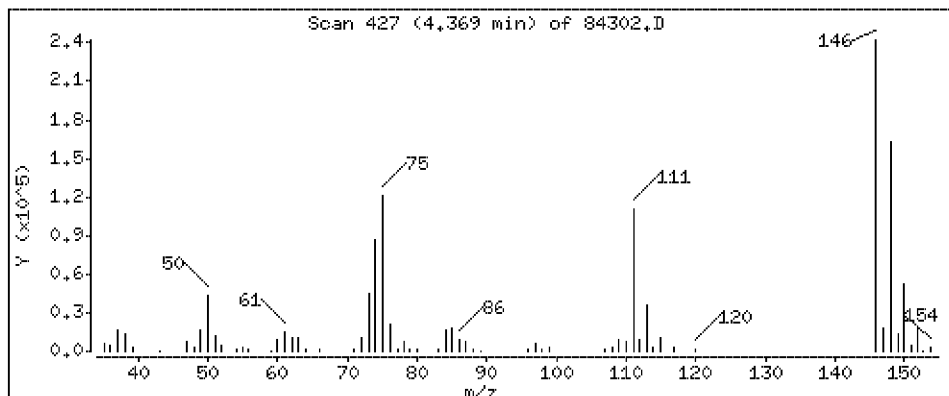
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

19 1,4-Dichlorobenzene

Concentration: 1260 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

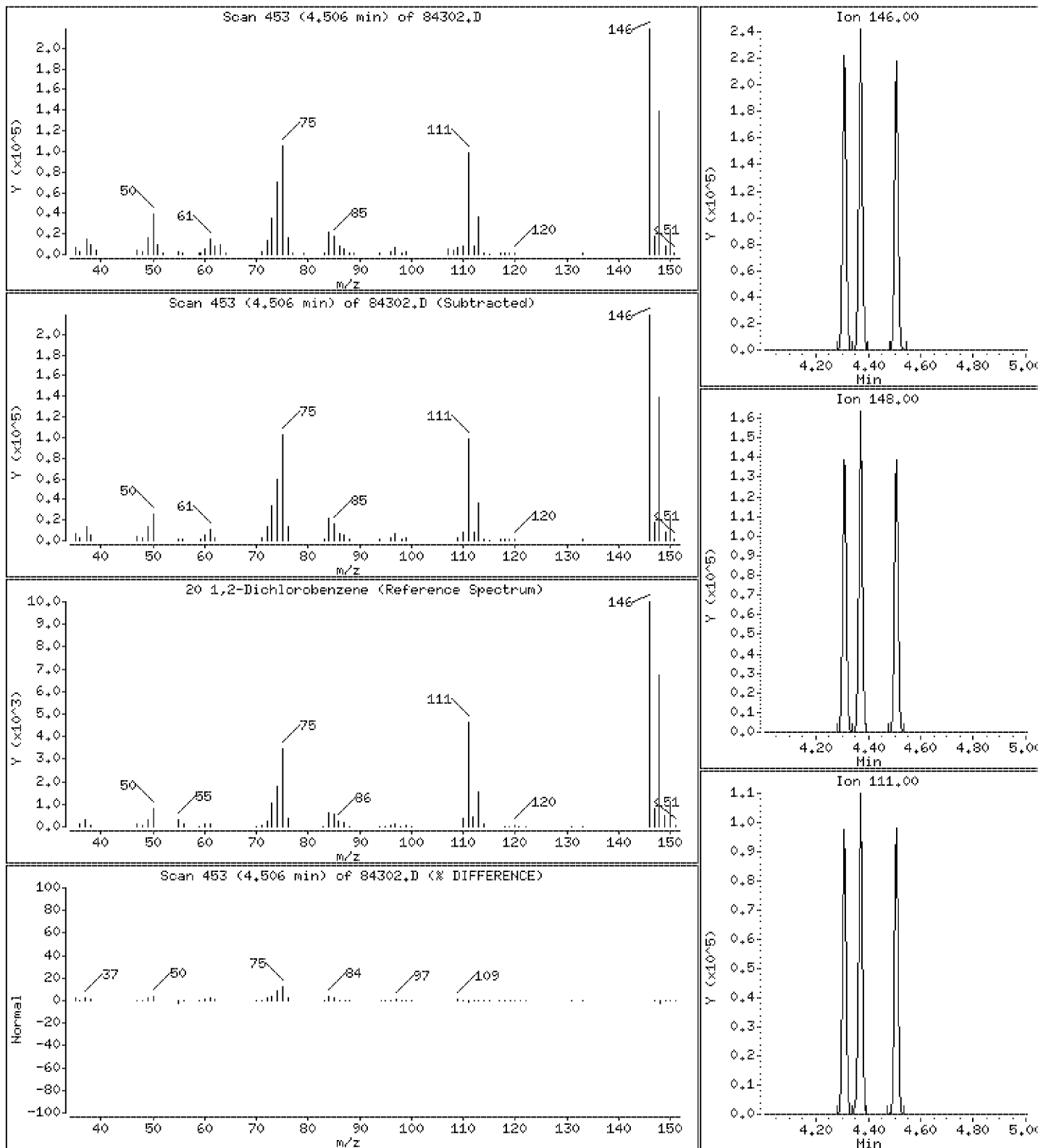
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

20 1,2-Dichlorobenzene

Concentration: 1270 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

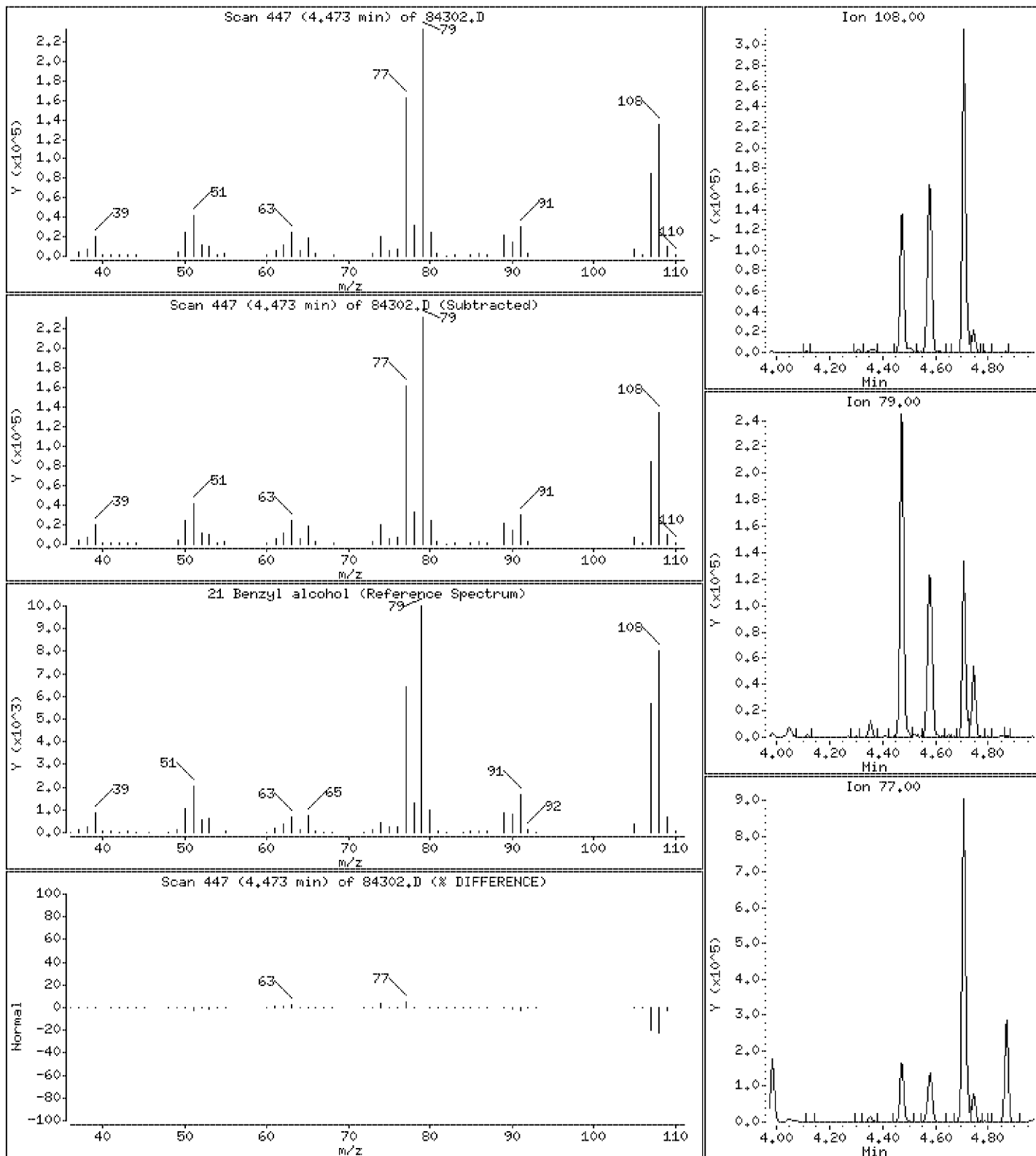
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

21 Benzyl alcohol

Concentration: 1510 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

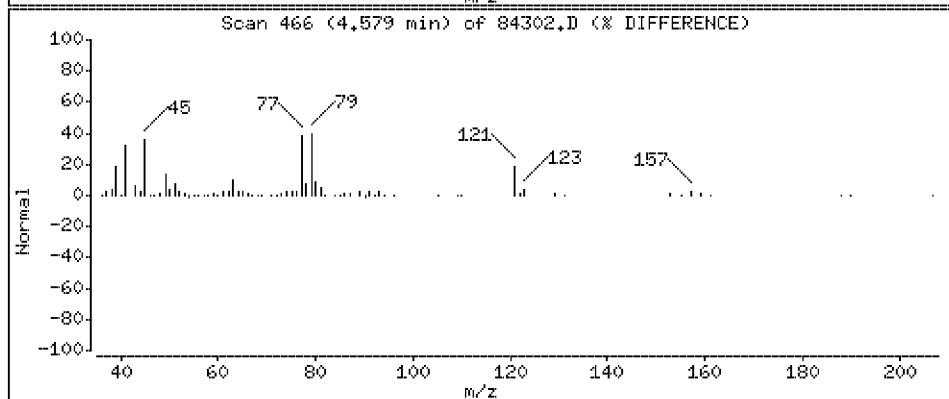
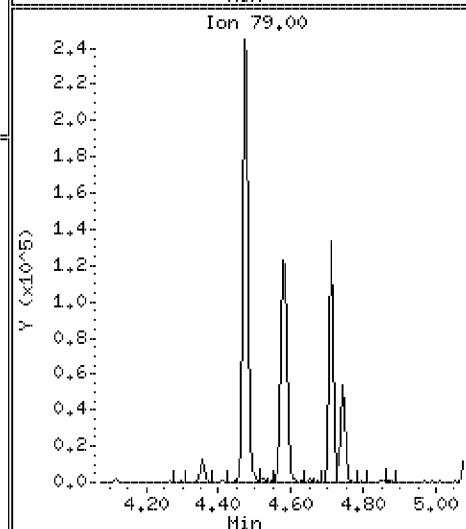
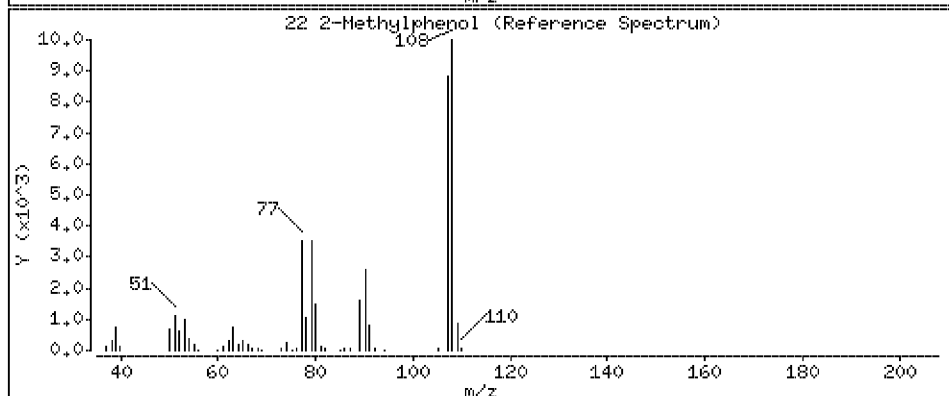
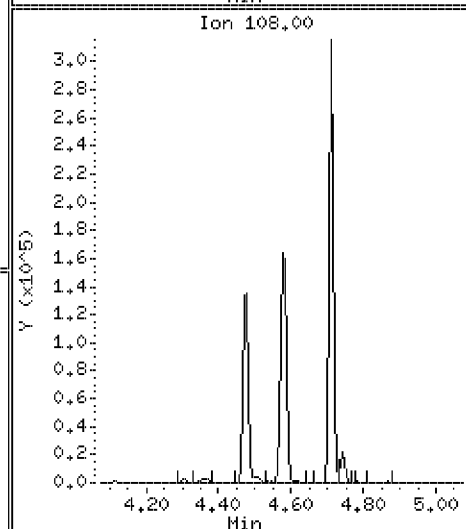
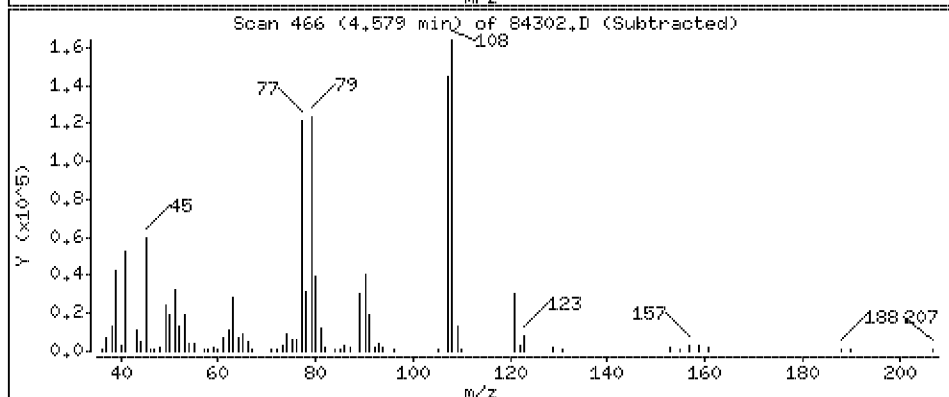
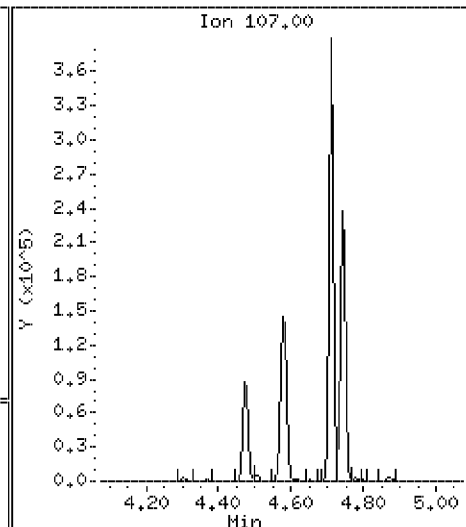
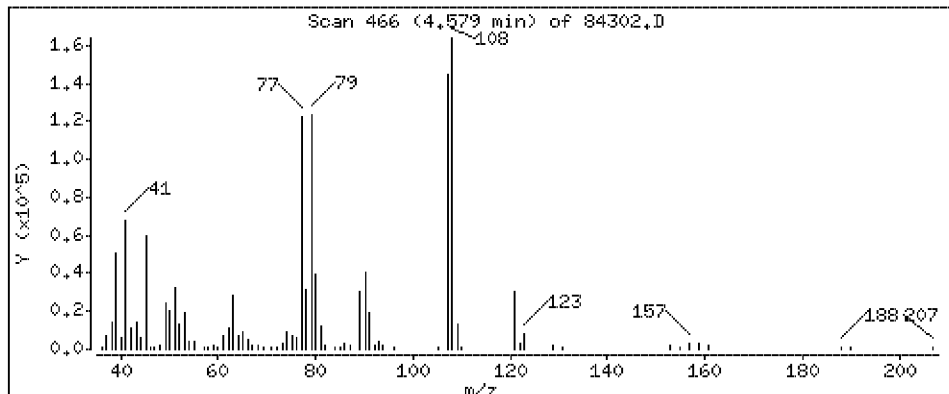
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

22 2-Methylphenol

Concentration: 1410 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

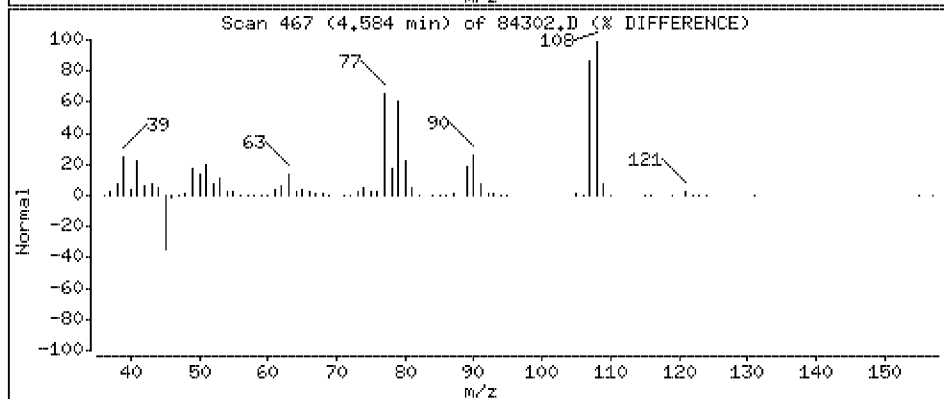
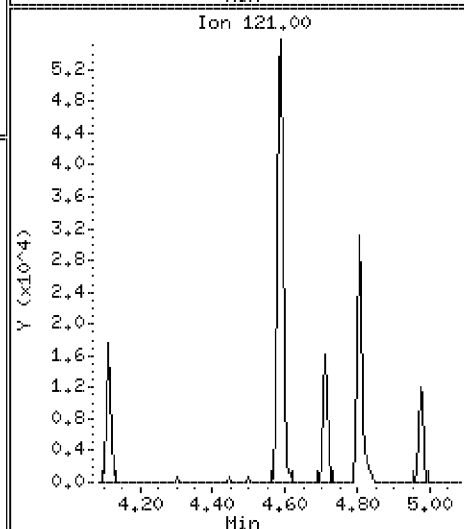
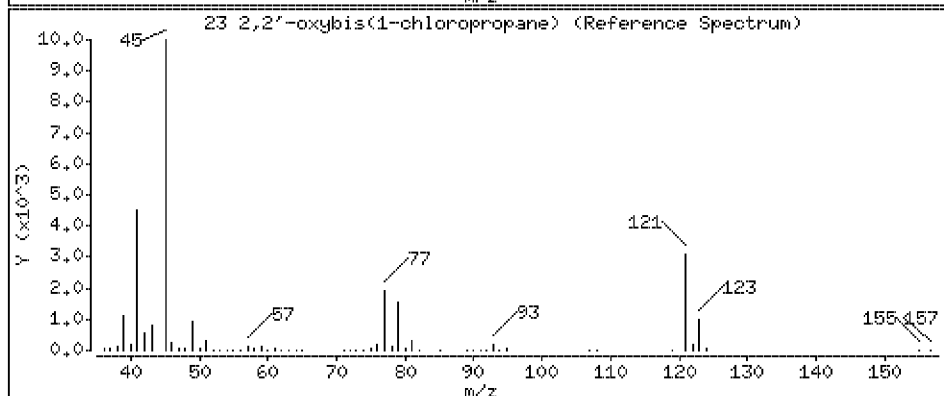
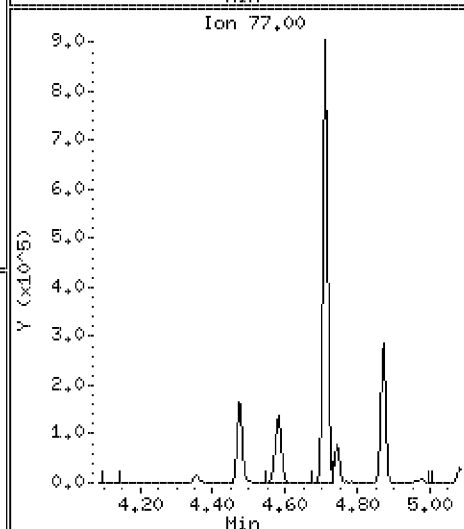
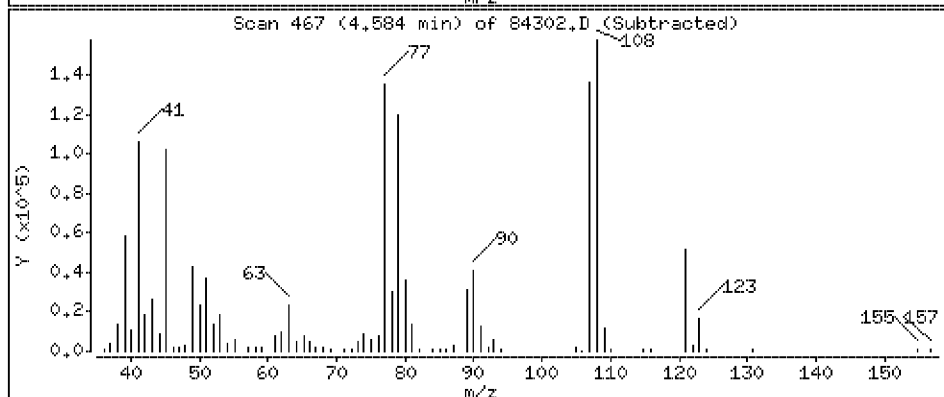
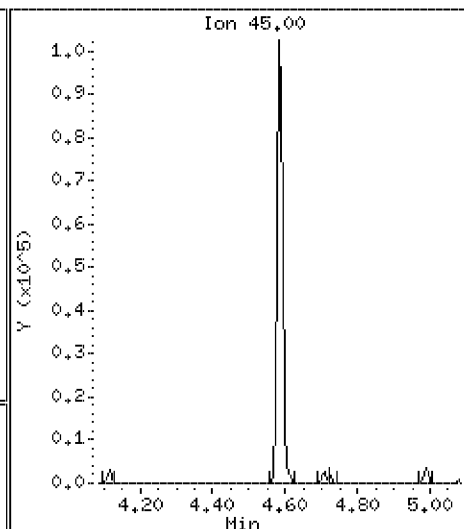
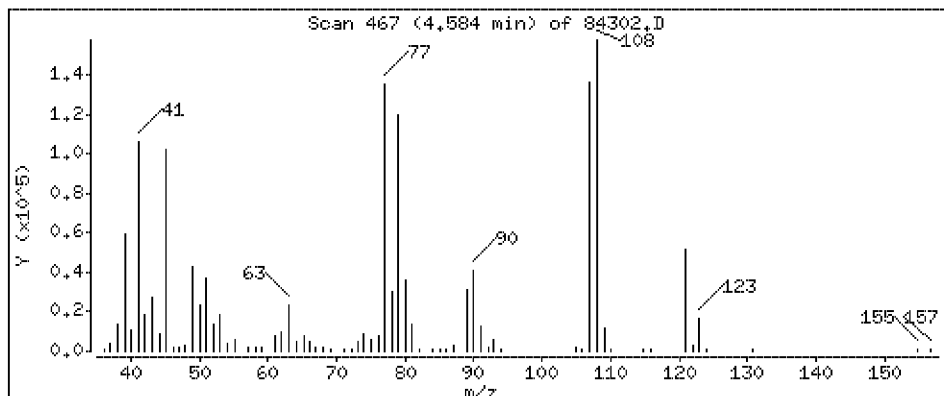
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

23 2,2'-oxybis(1-chloropropane)

Concentration: 1240 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

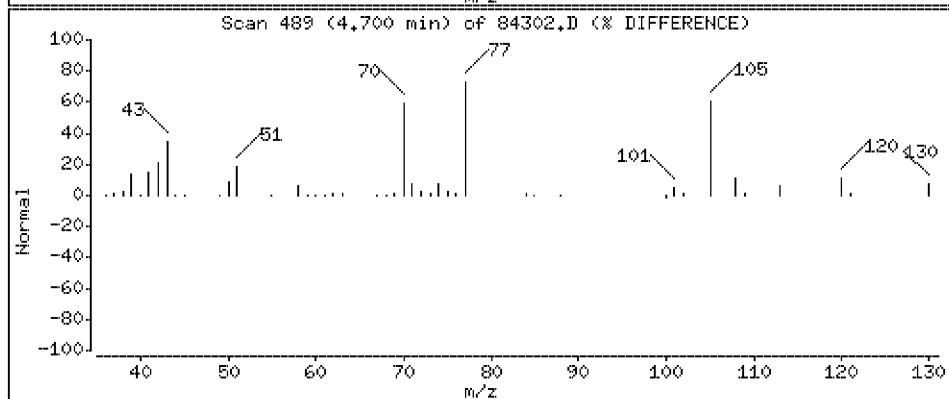
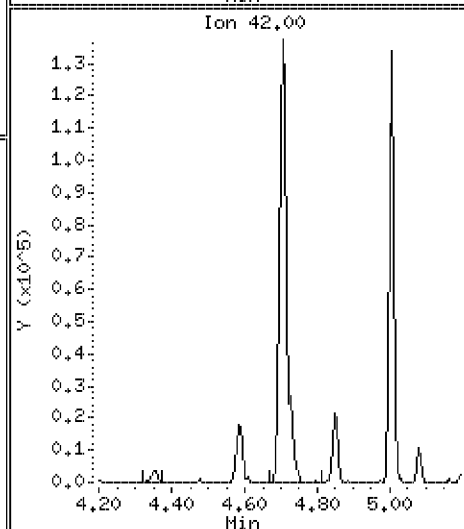
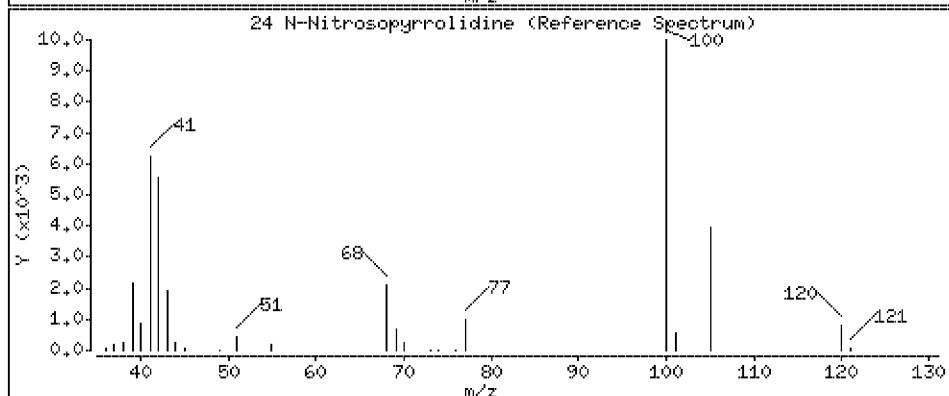
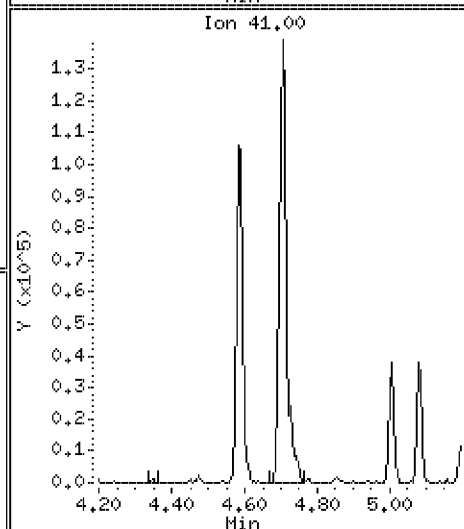
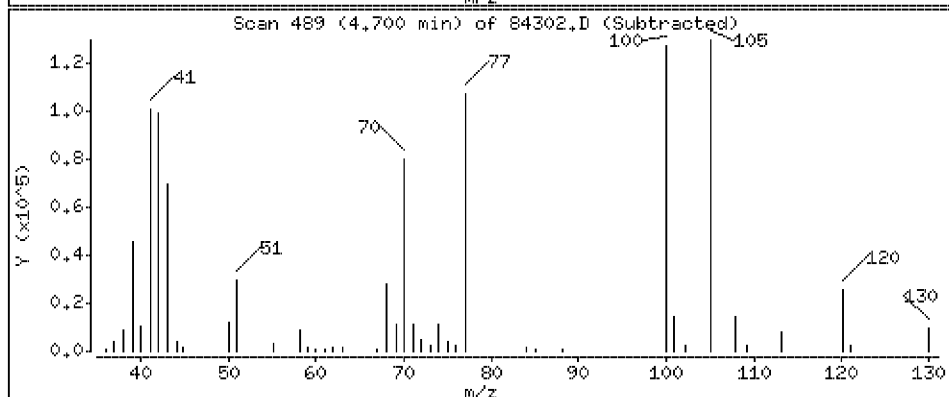
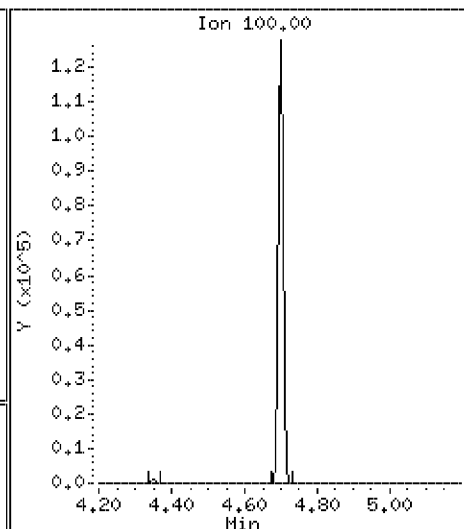
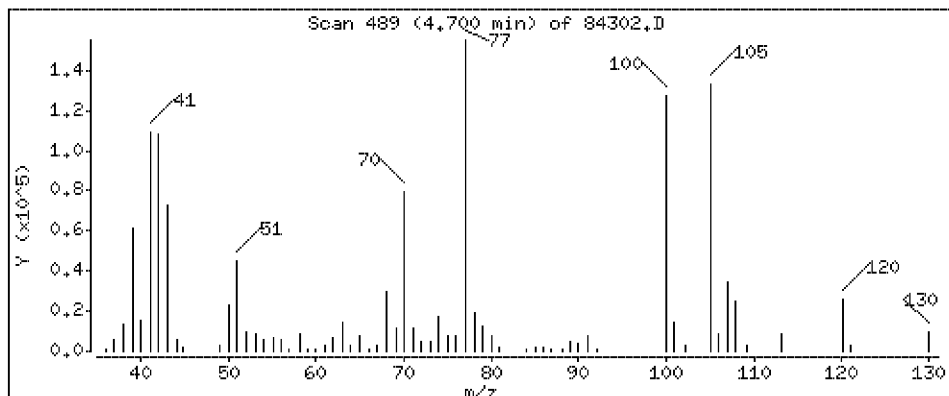
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

24 N-Nitrosopyrrolidine

Concentration: 1620 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

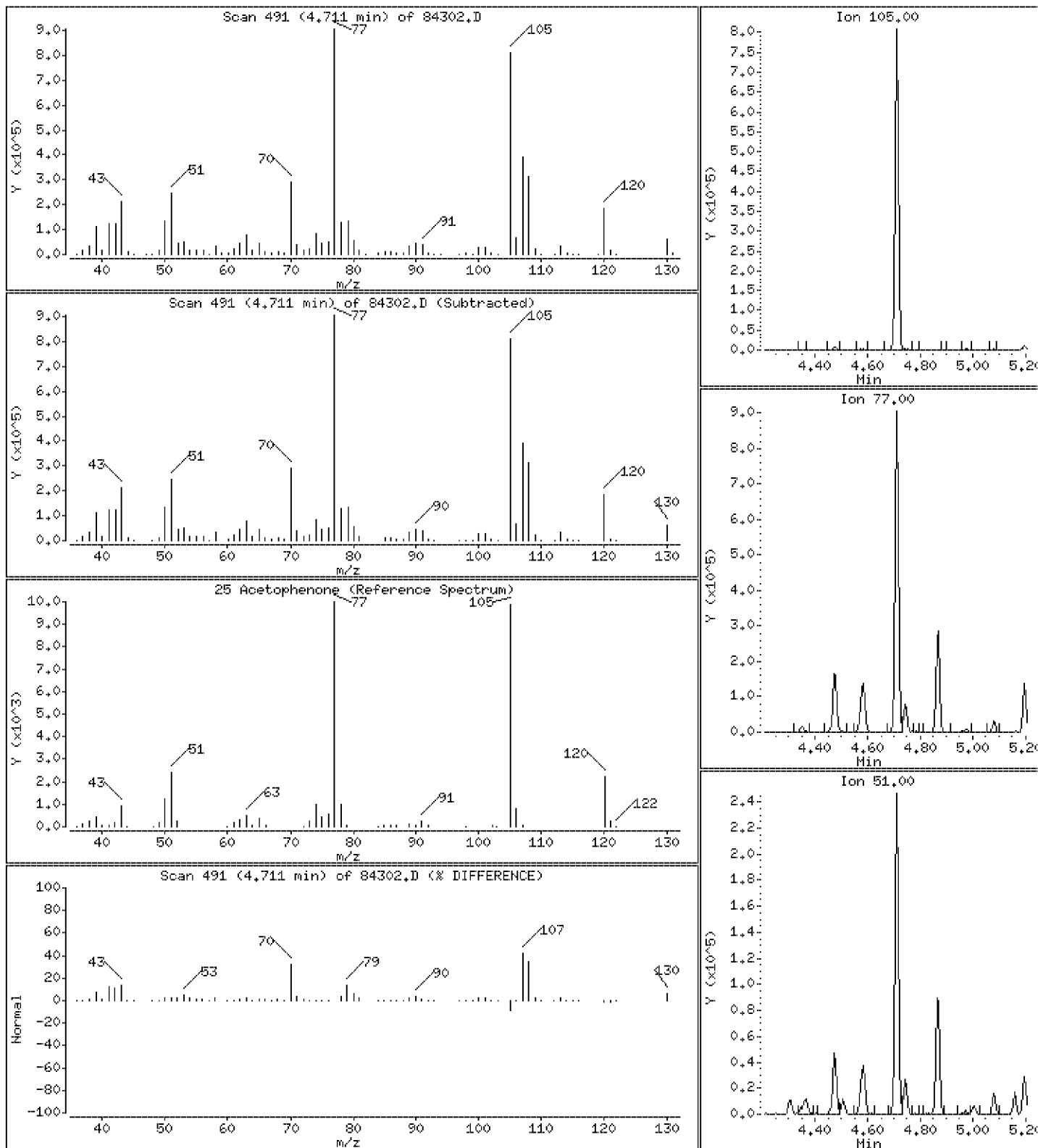
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

25 Acetophenone

Concentration: 2980 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

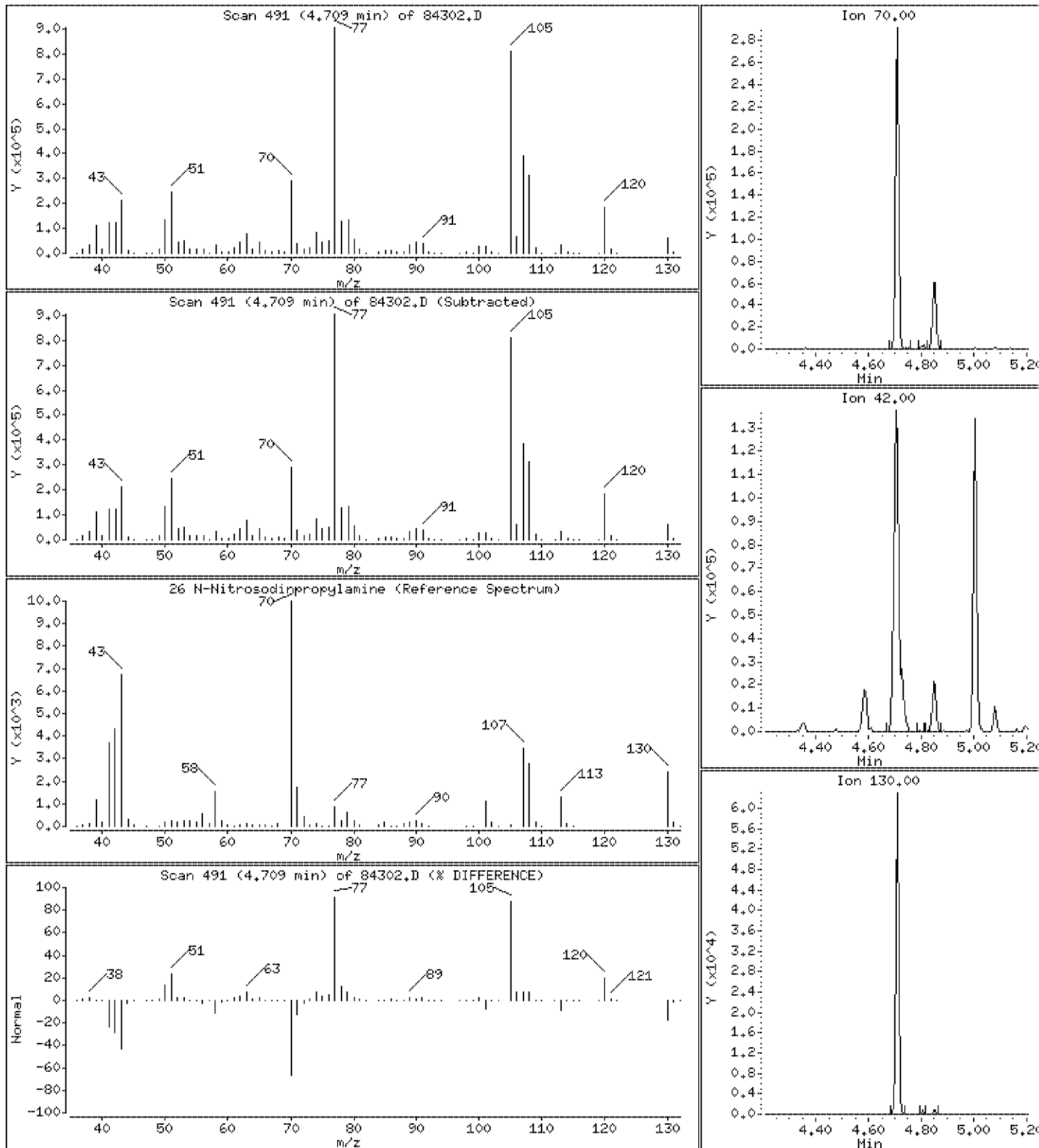
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

26 N-Nitrosodipropylamine

Concentration: 1760 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

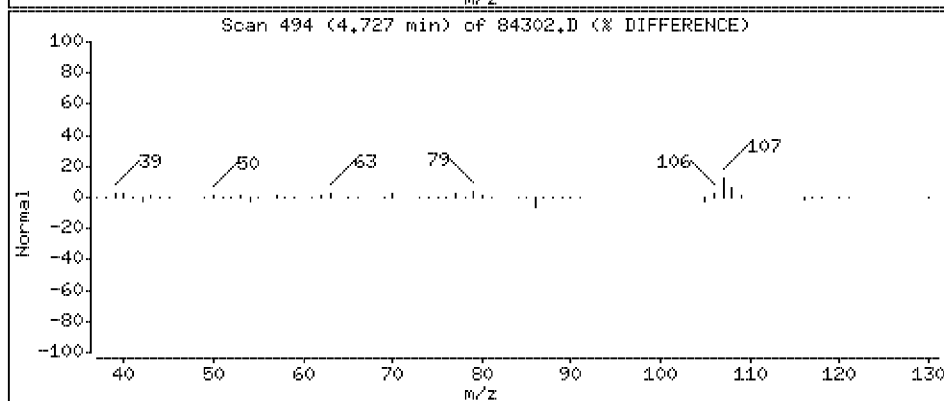
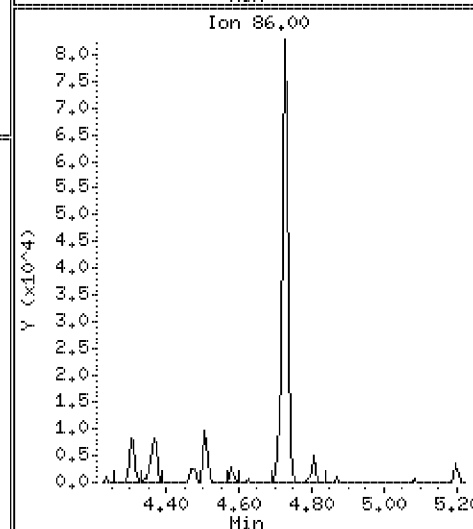
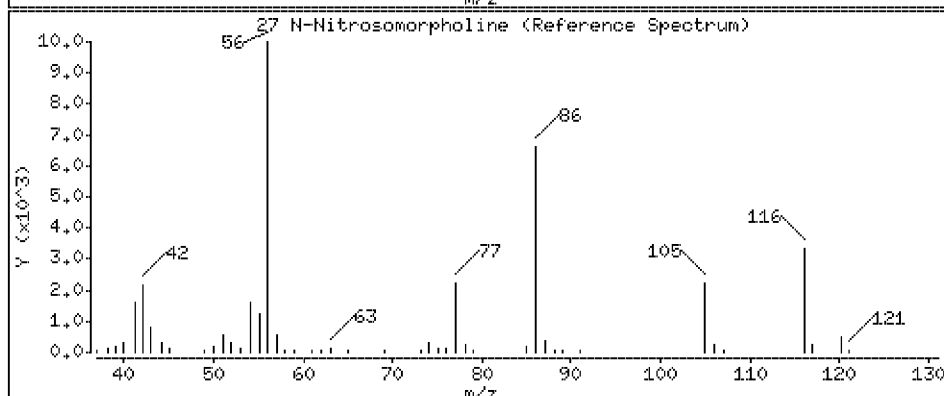
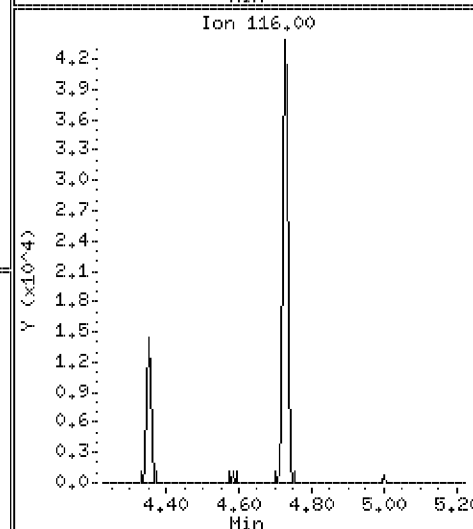
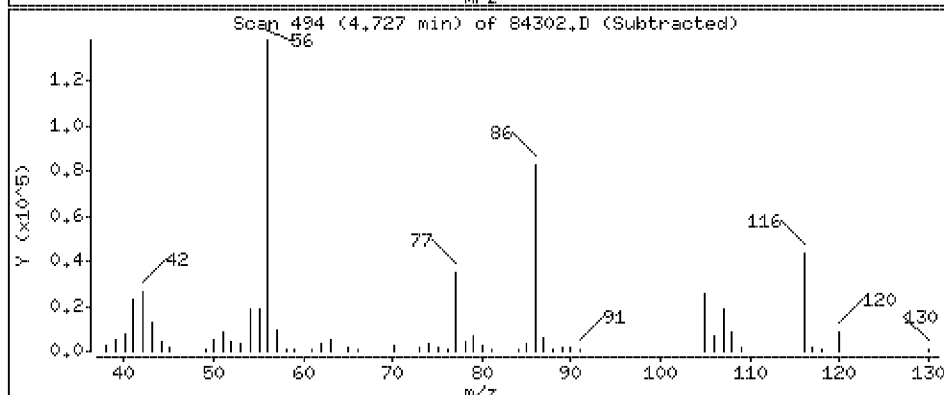
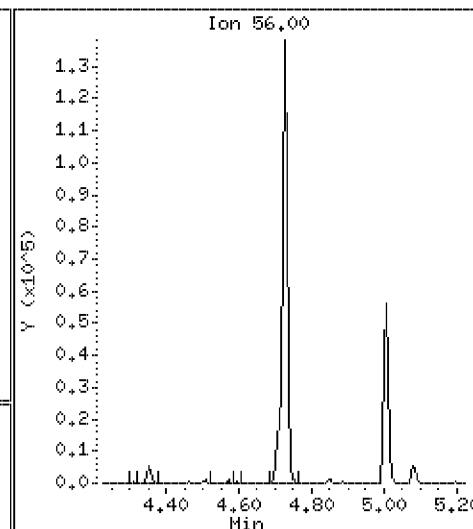
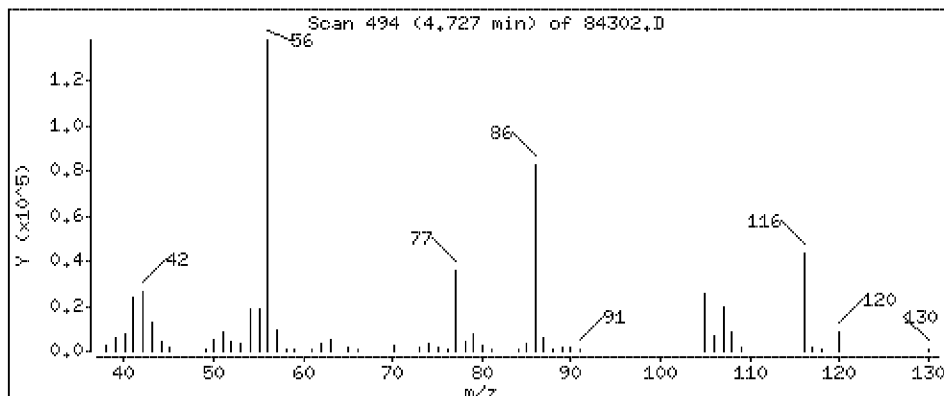
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

27 N-Nitrosomorpholine

Concentration: 1710 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

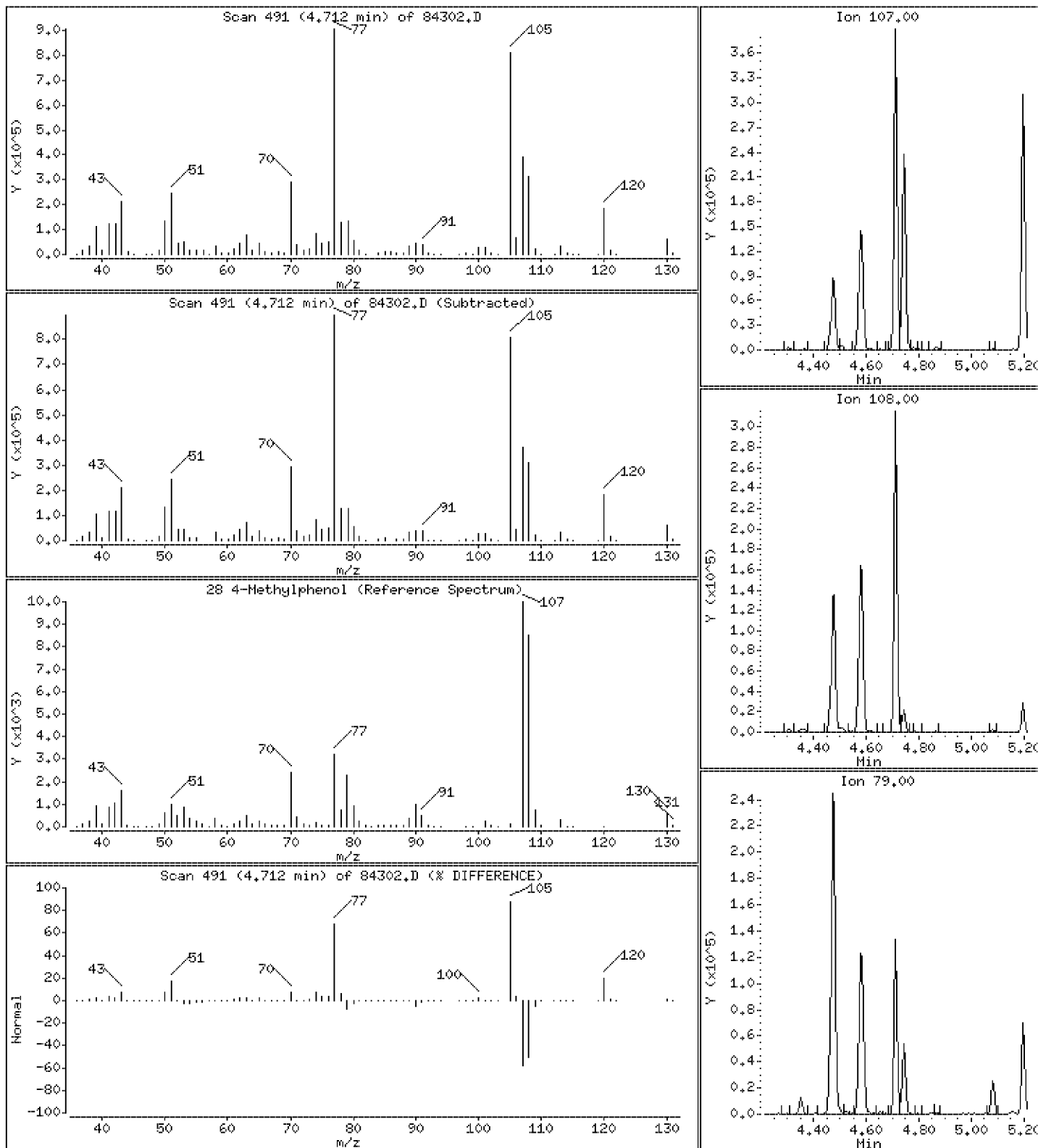
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

28 4-Methylphenol

Concentration: 1780 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

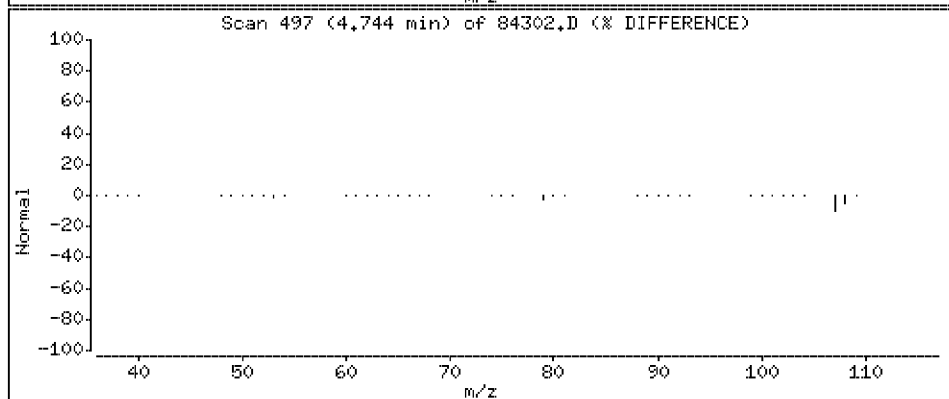
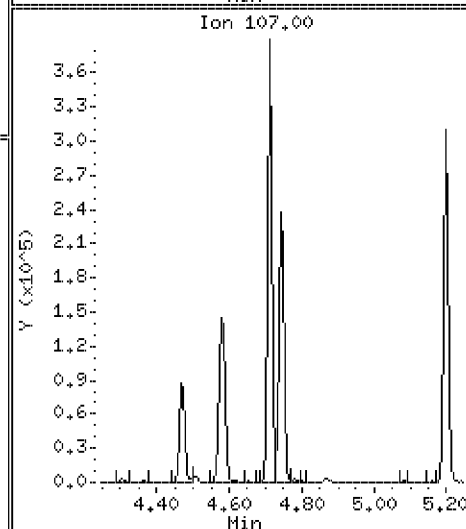
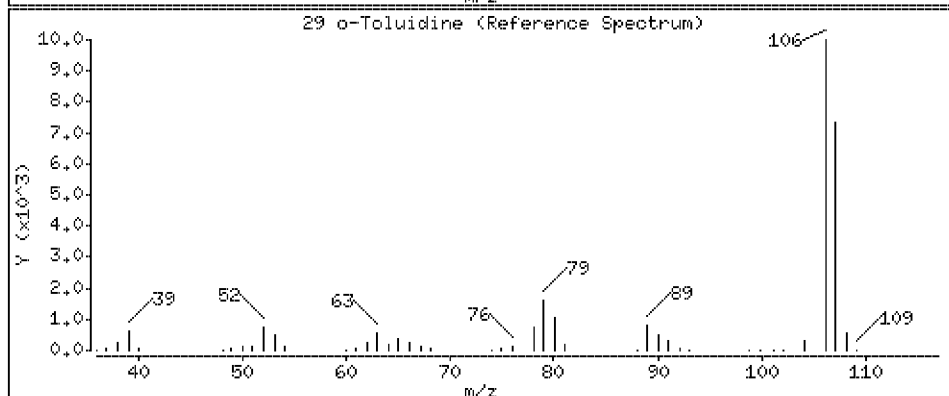
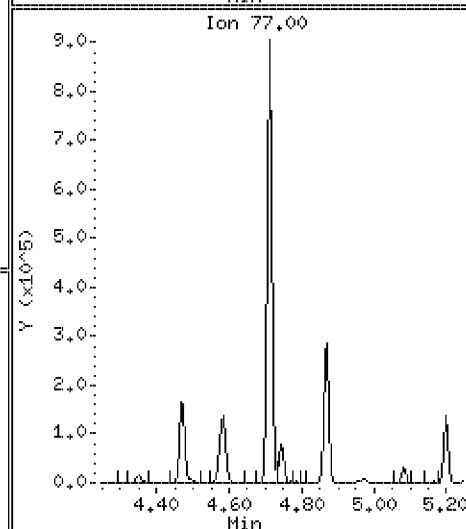
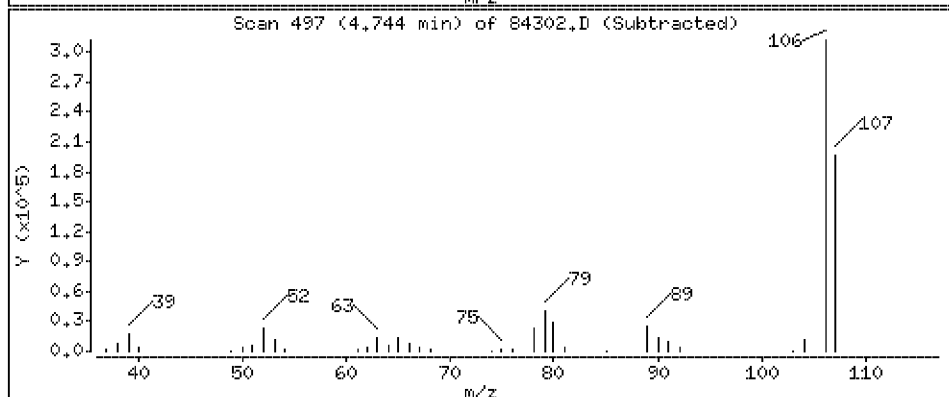
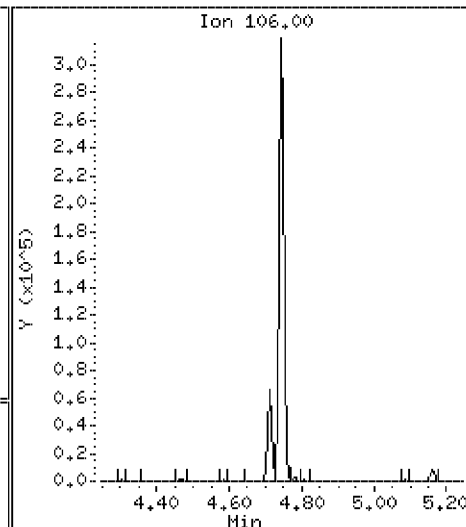
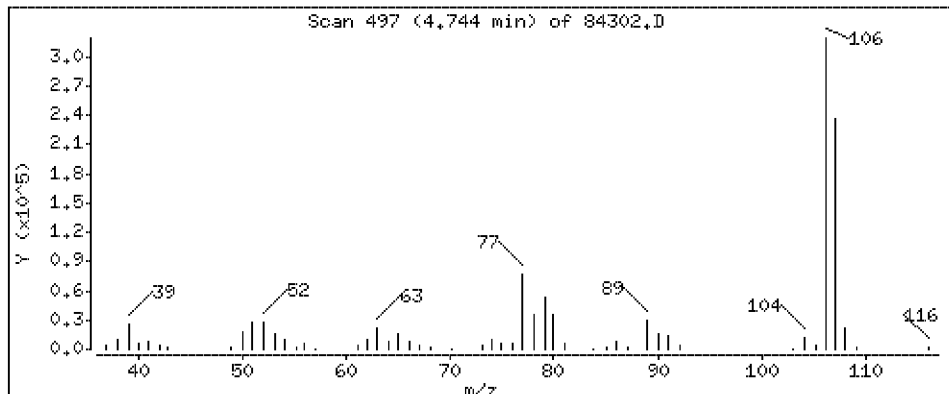
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

29 o-Toluidine

Concentration: 1190 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

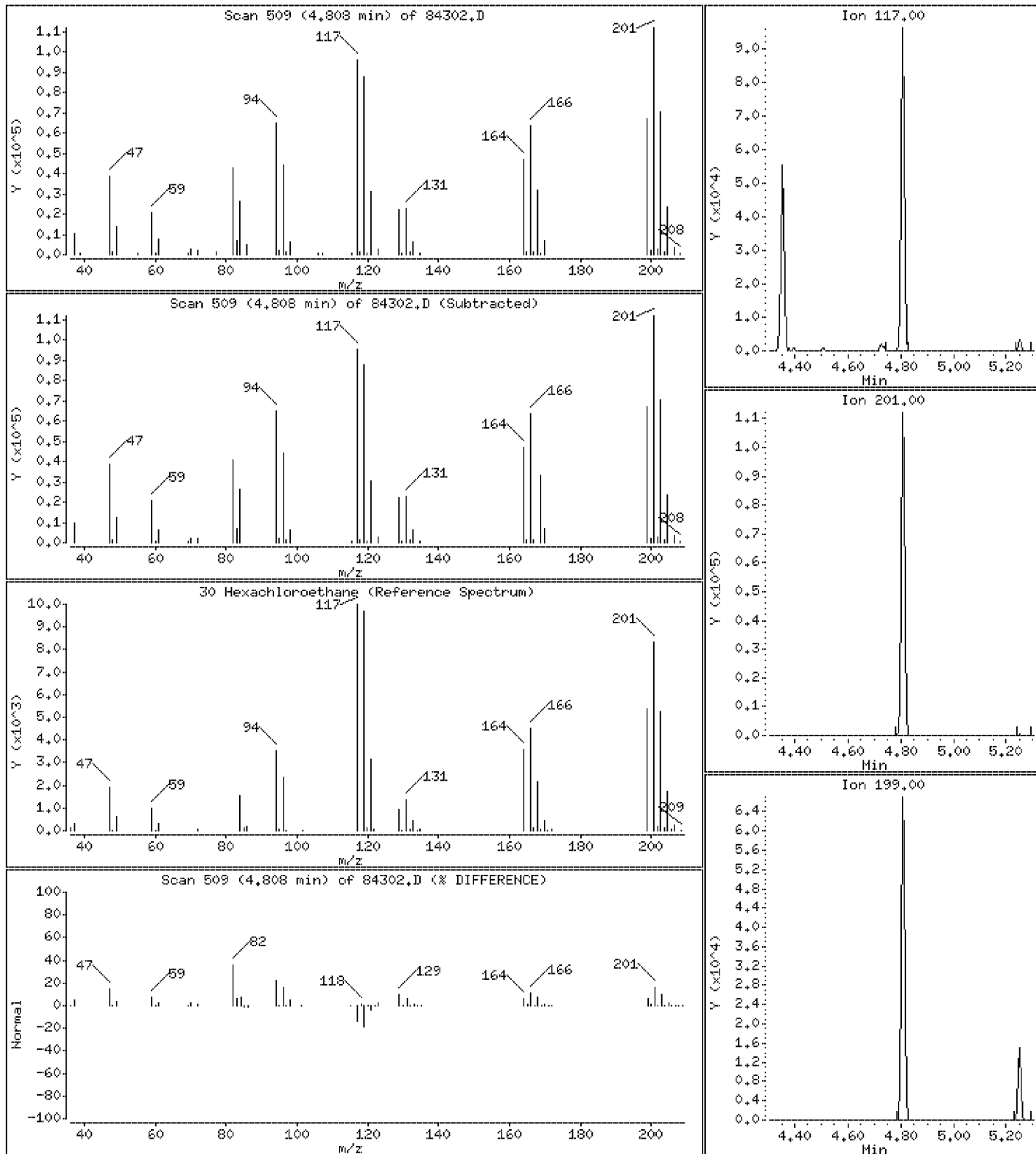
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

30 Hexachloroethane

Concentration: 1200 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

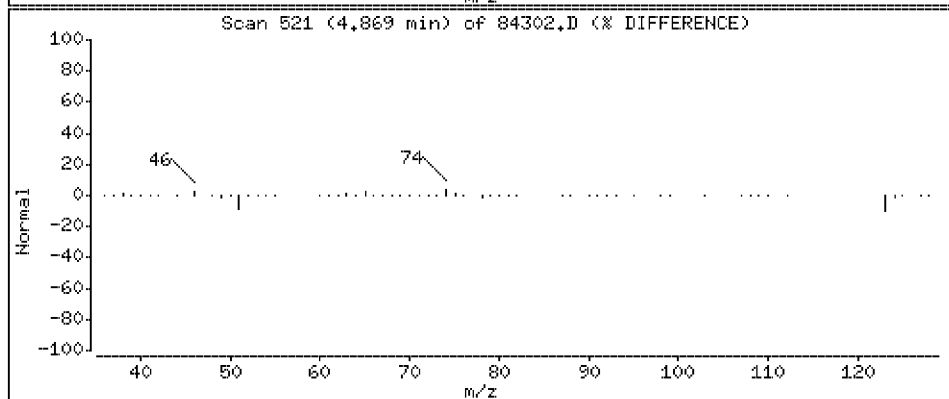
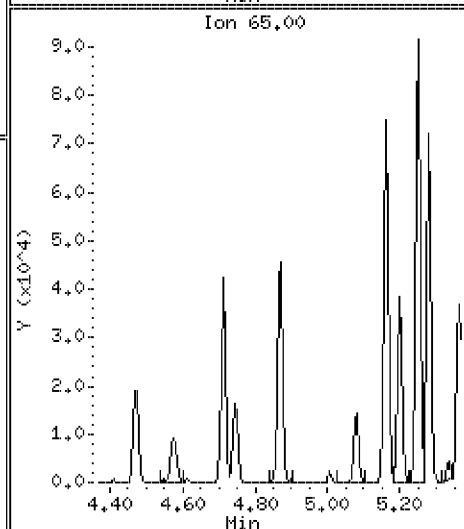
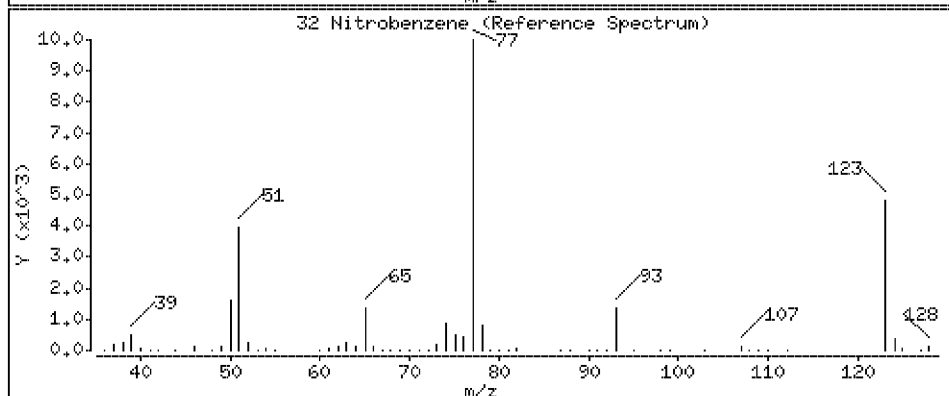
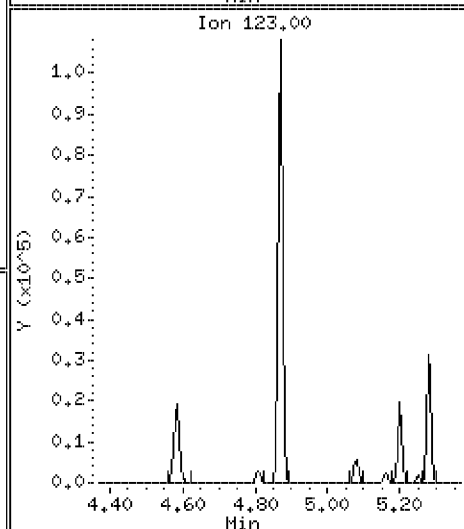
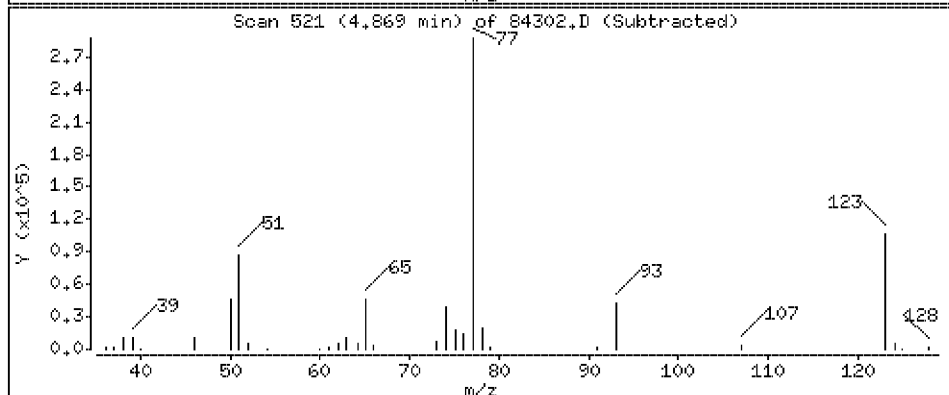
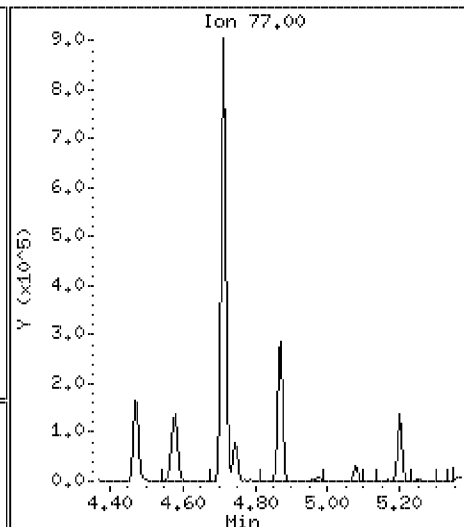
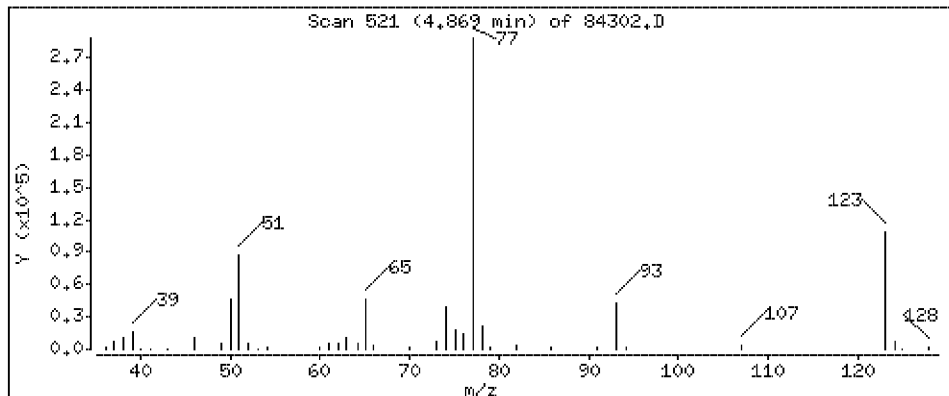
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

32 Nitrobenzene

Concentration: 1320 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

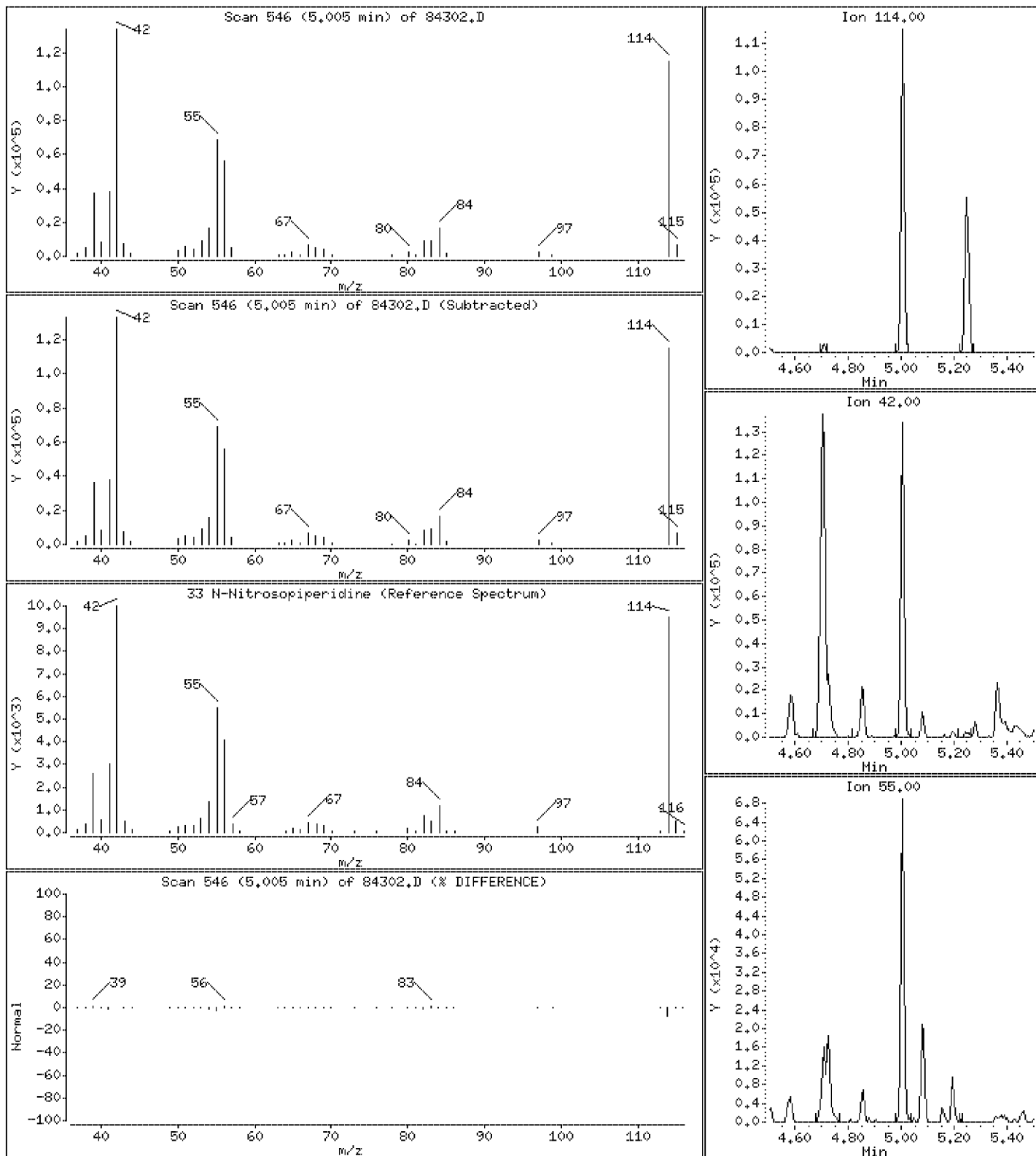
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

33 N-Nitrosopiperidine

Concentration: 1460 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

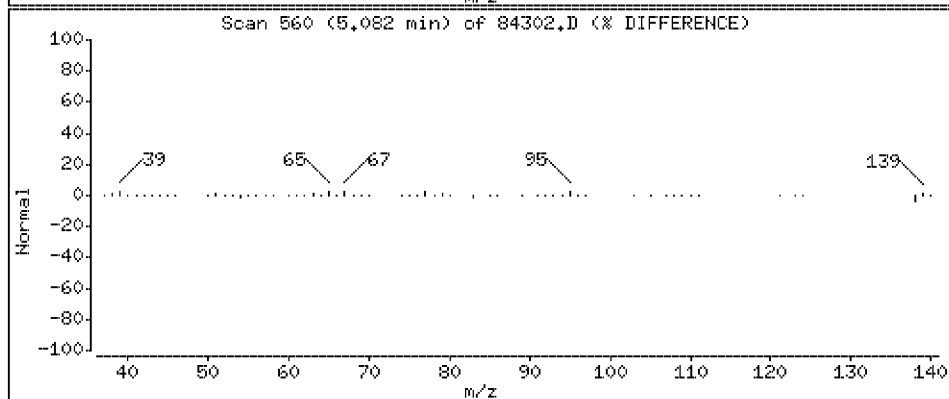
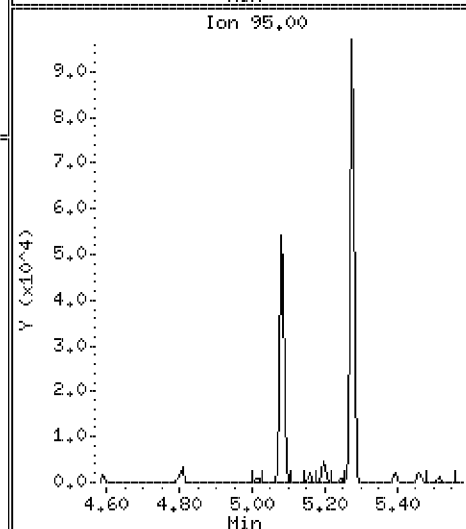
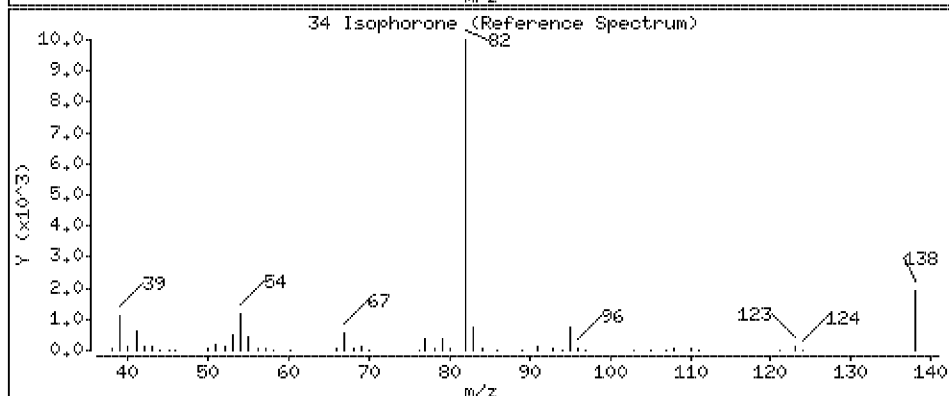
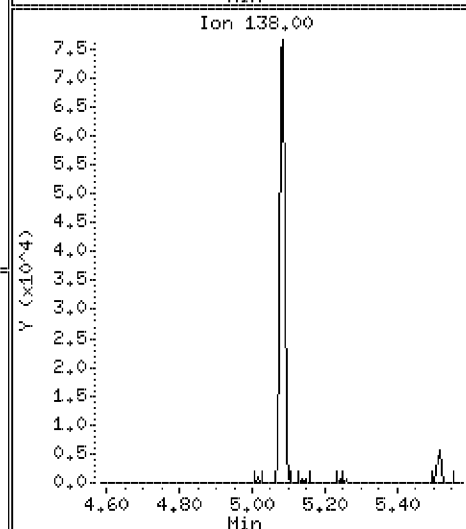
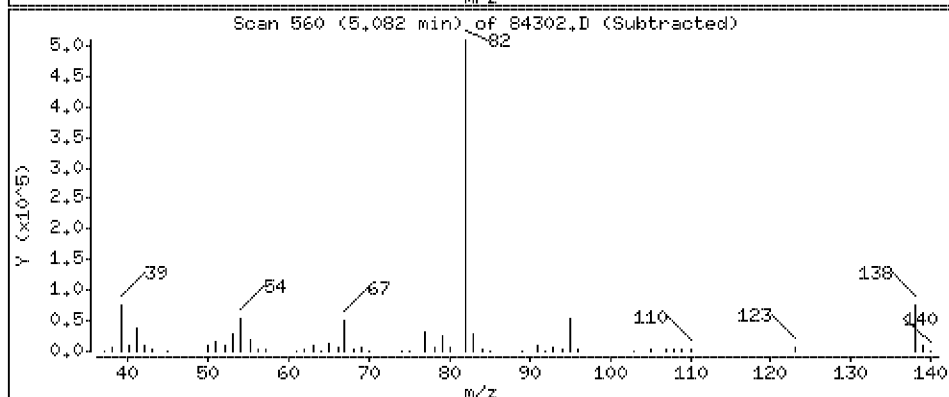
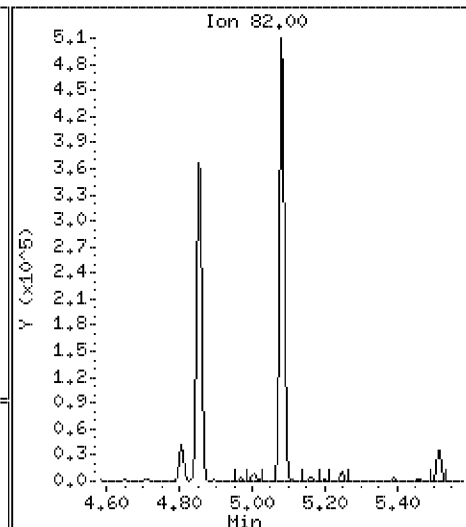
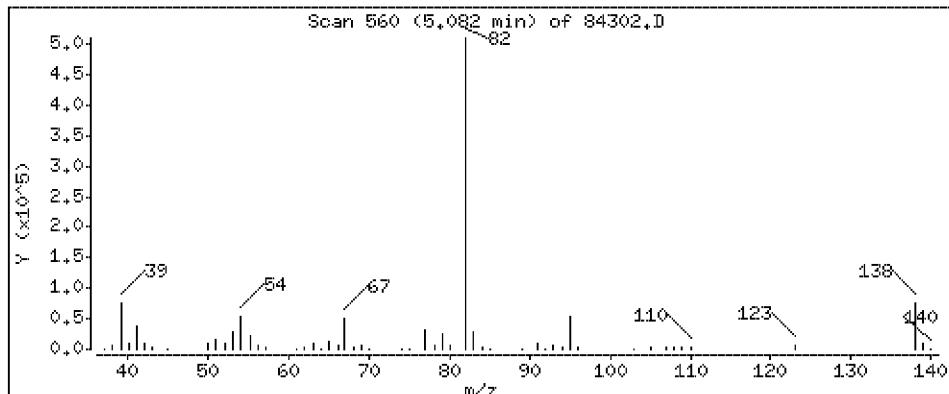
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

34 Isophorone

Concentration: 1840 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

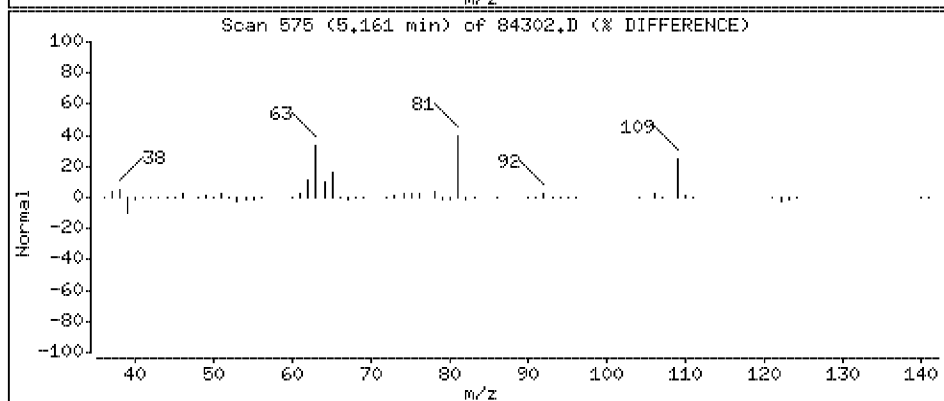
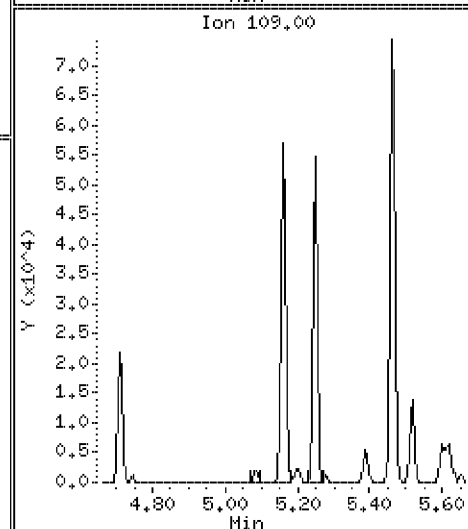
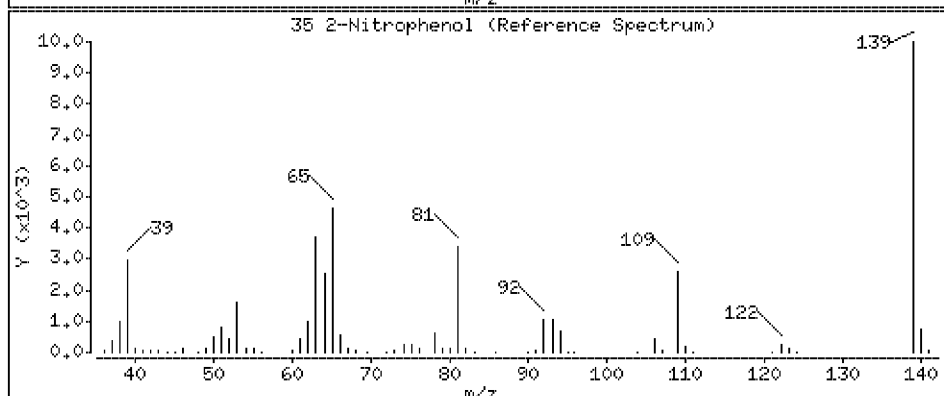
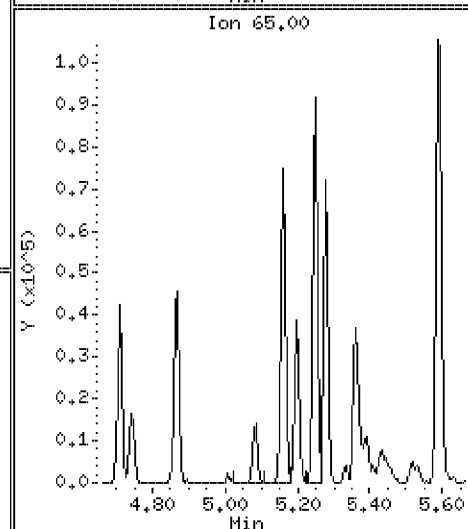
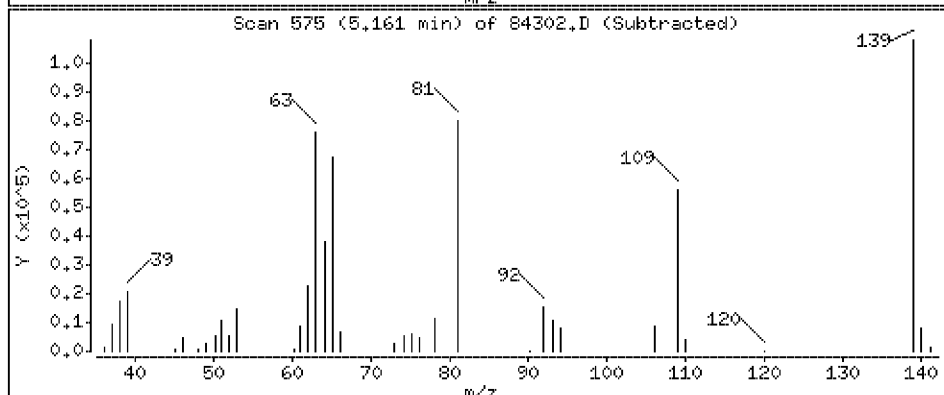
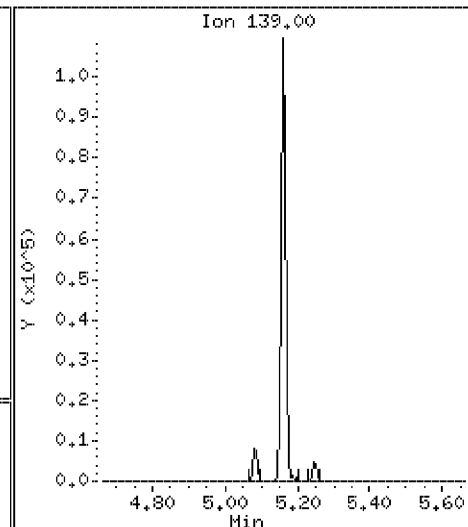
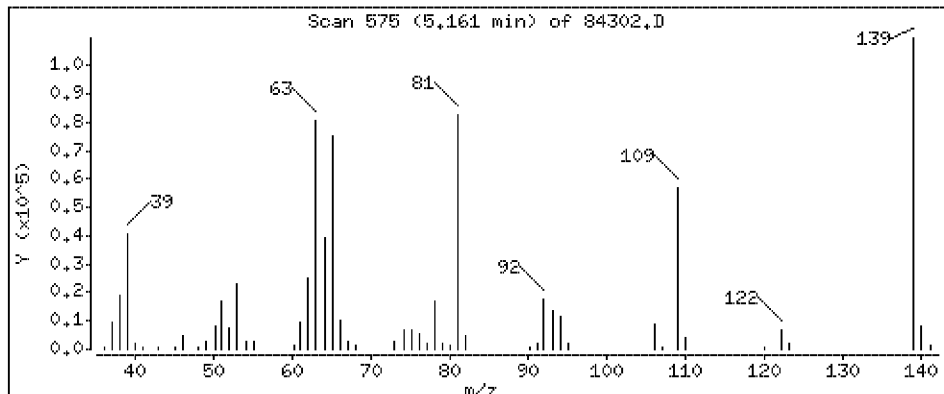
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

35 2-Nitrophenol

Concentration: 1230 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

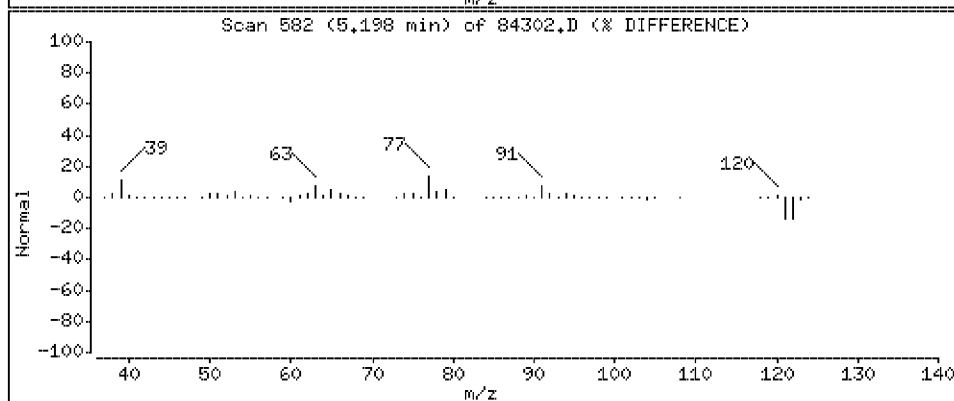
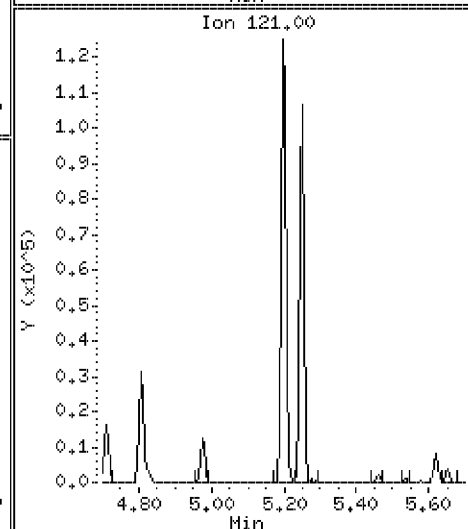
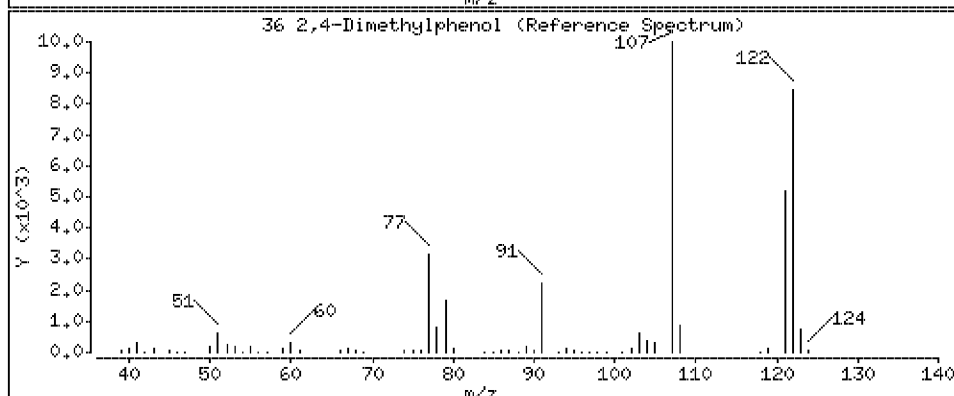
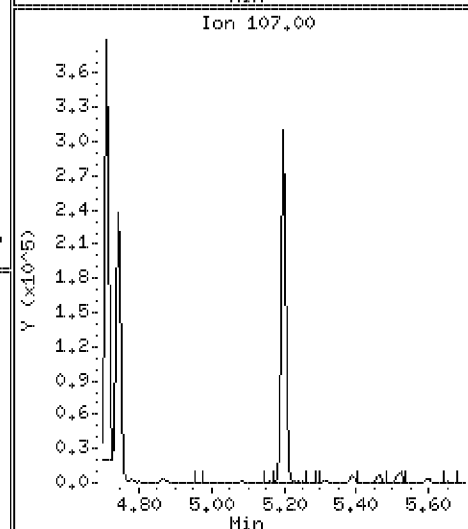
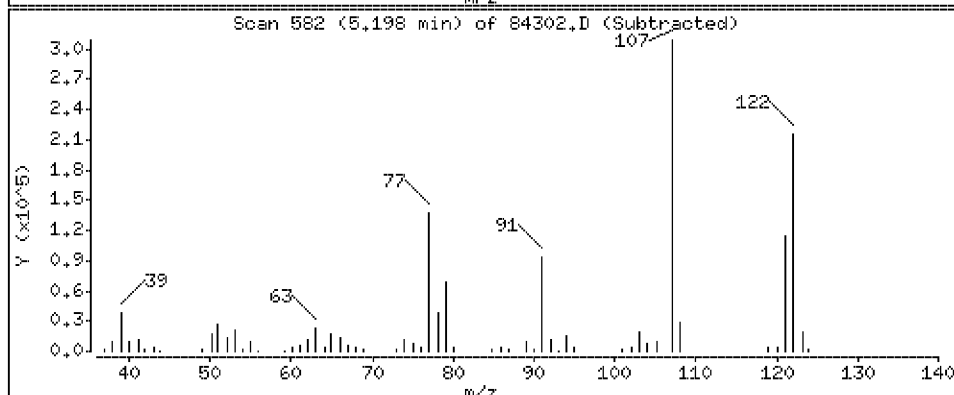
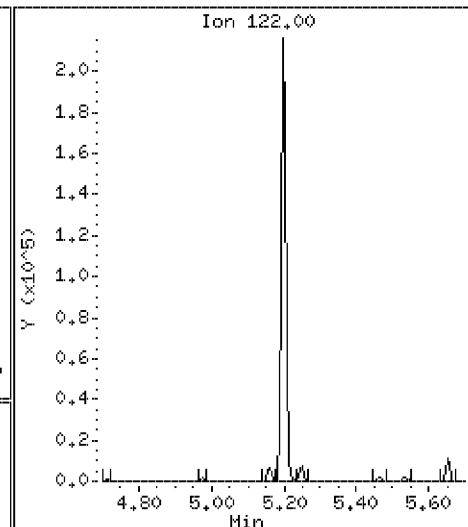
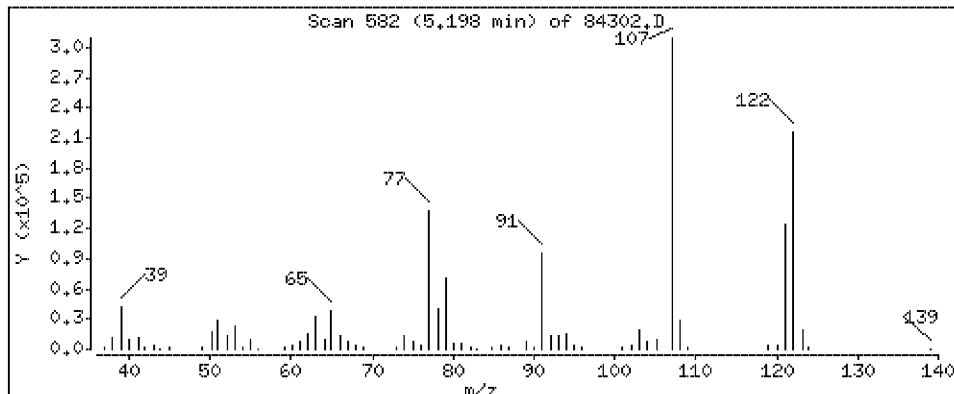
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

36 2,4-Dimethylphenol

Concentration: 1610 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

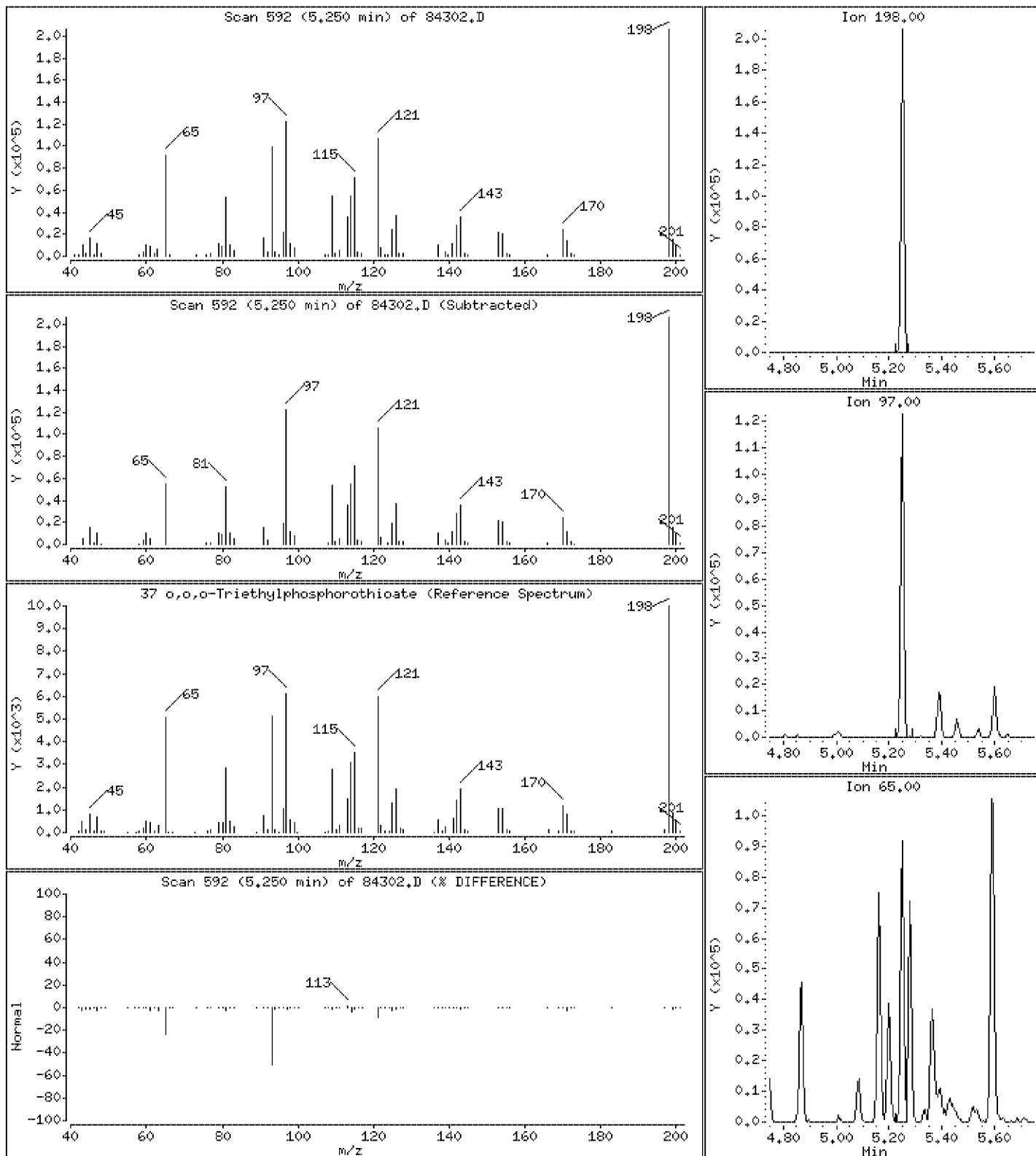
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

37 o,o,o-Triethylphosphorothioate

Concentration: 1400 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

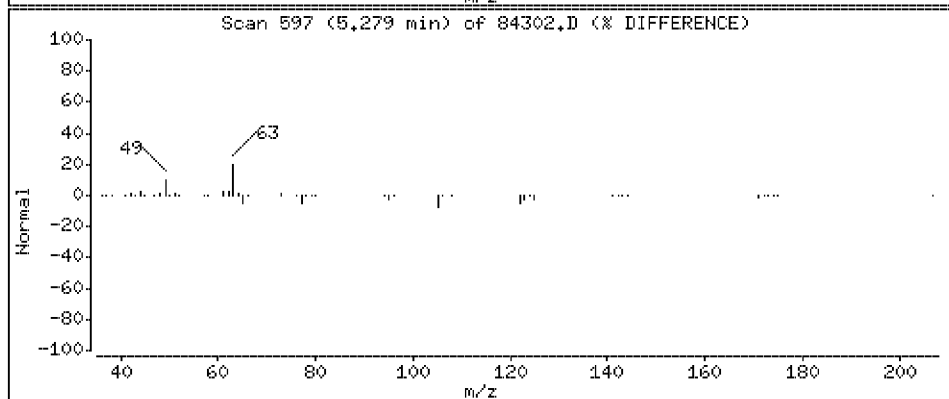
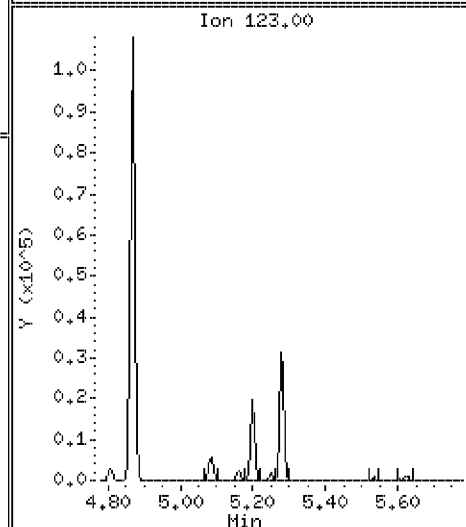
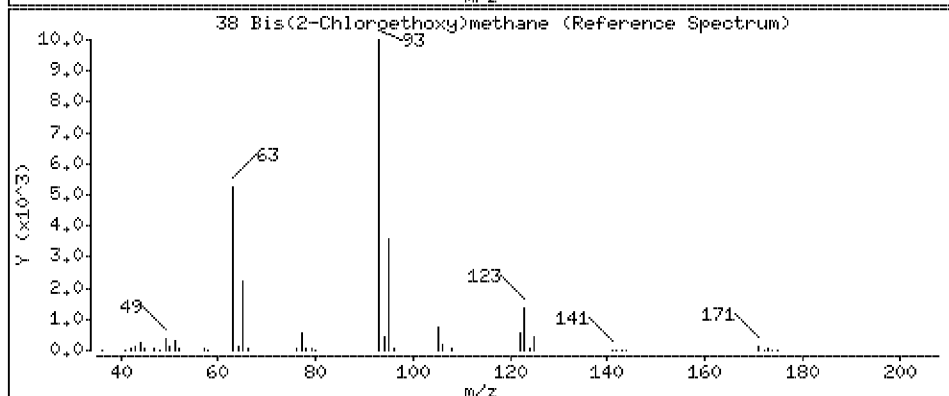
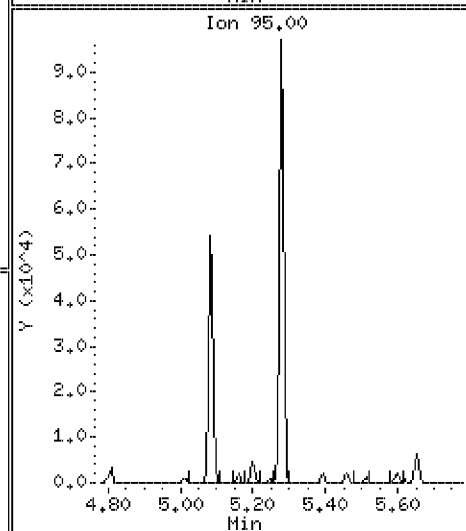
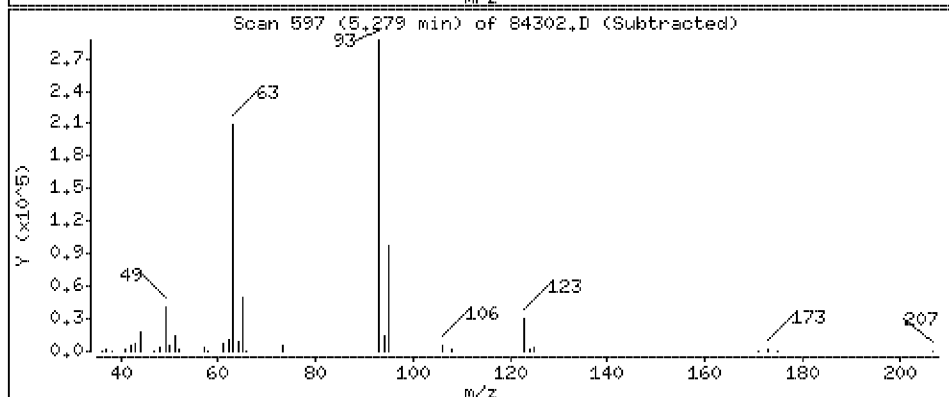
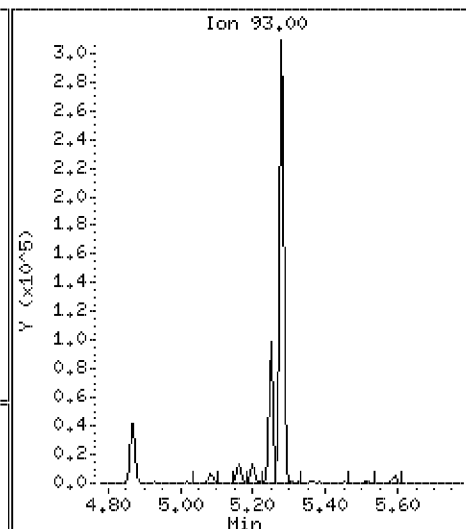
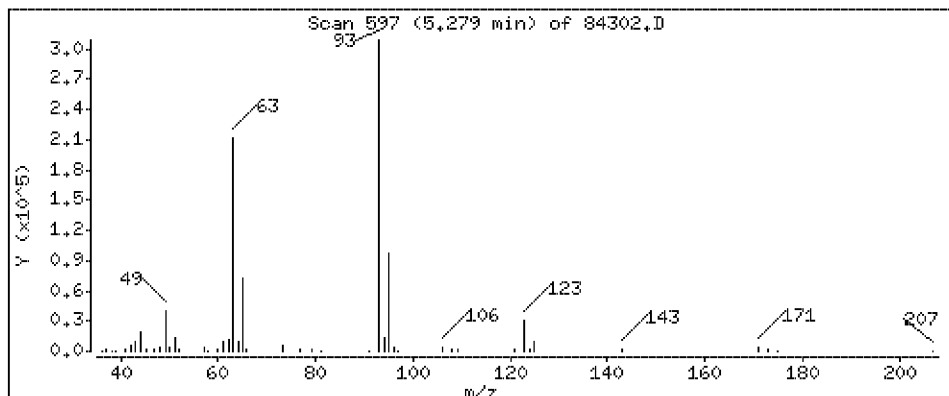
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

38 Bis(2-Chloroethoxy)methane

Concentration: 1520 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

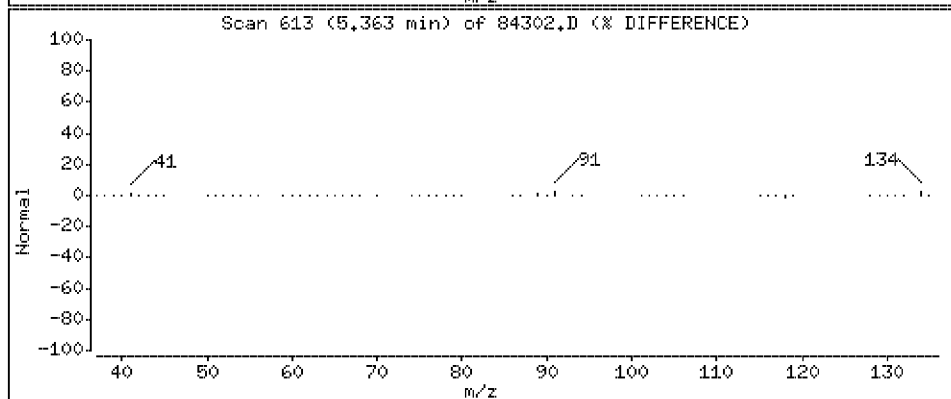
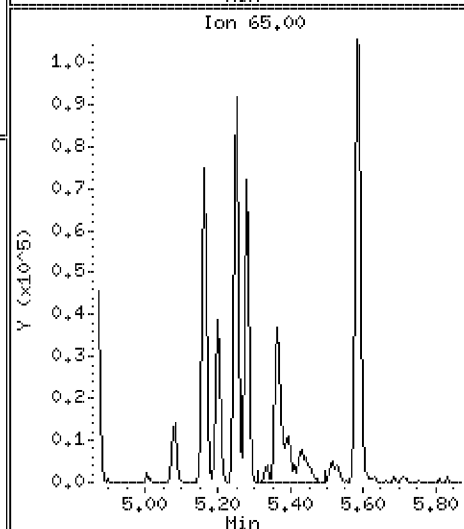
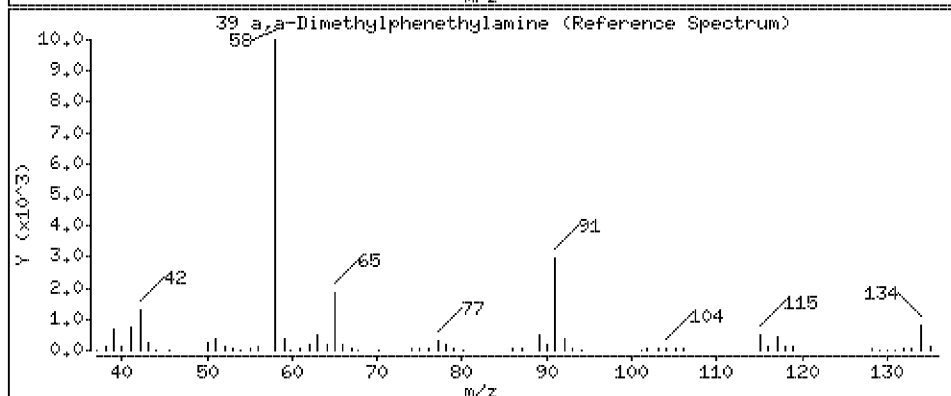
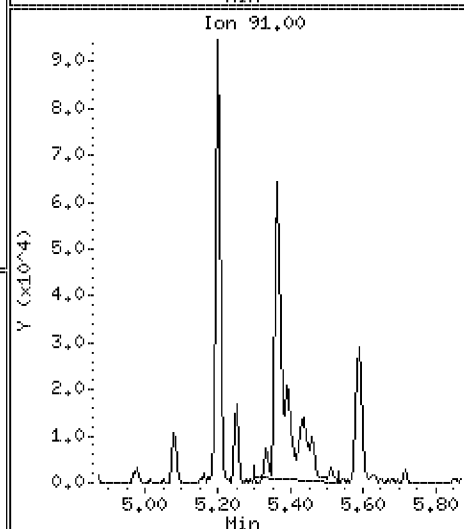
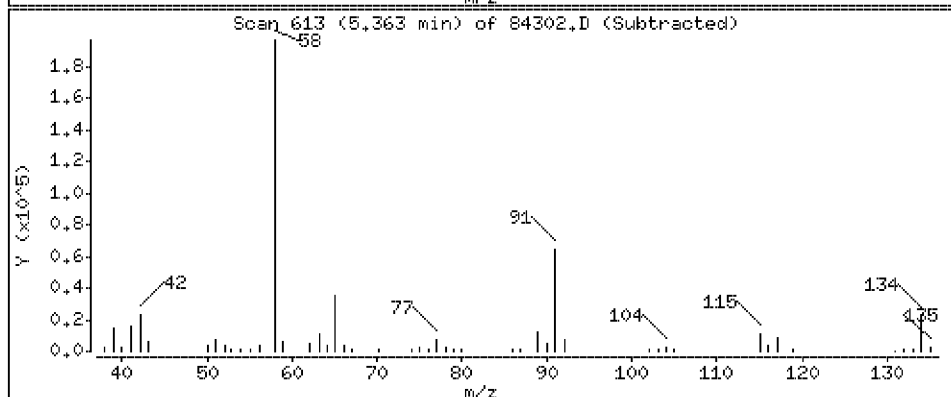
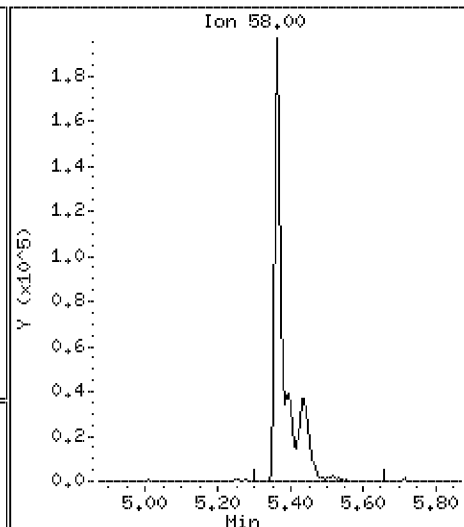
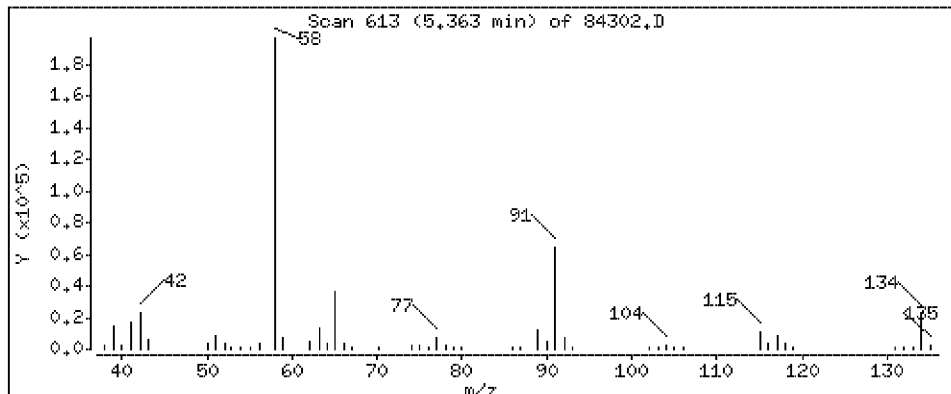
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

39 a,a-Dimethylphenethylamine

Concentration: 1500 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

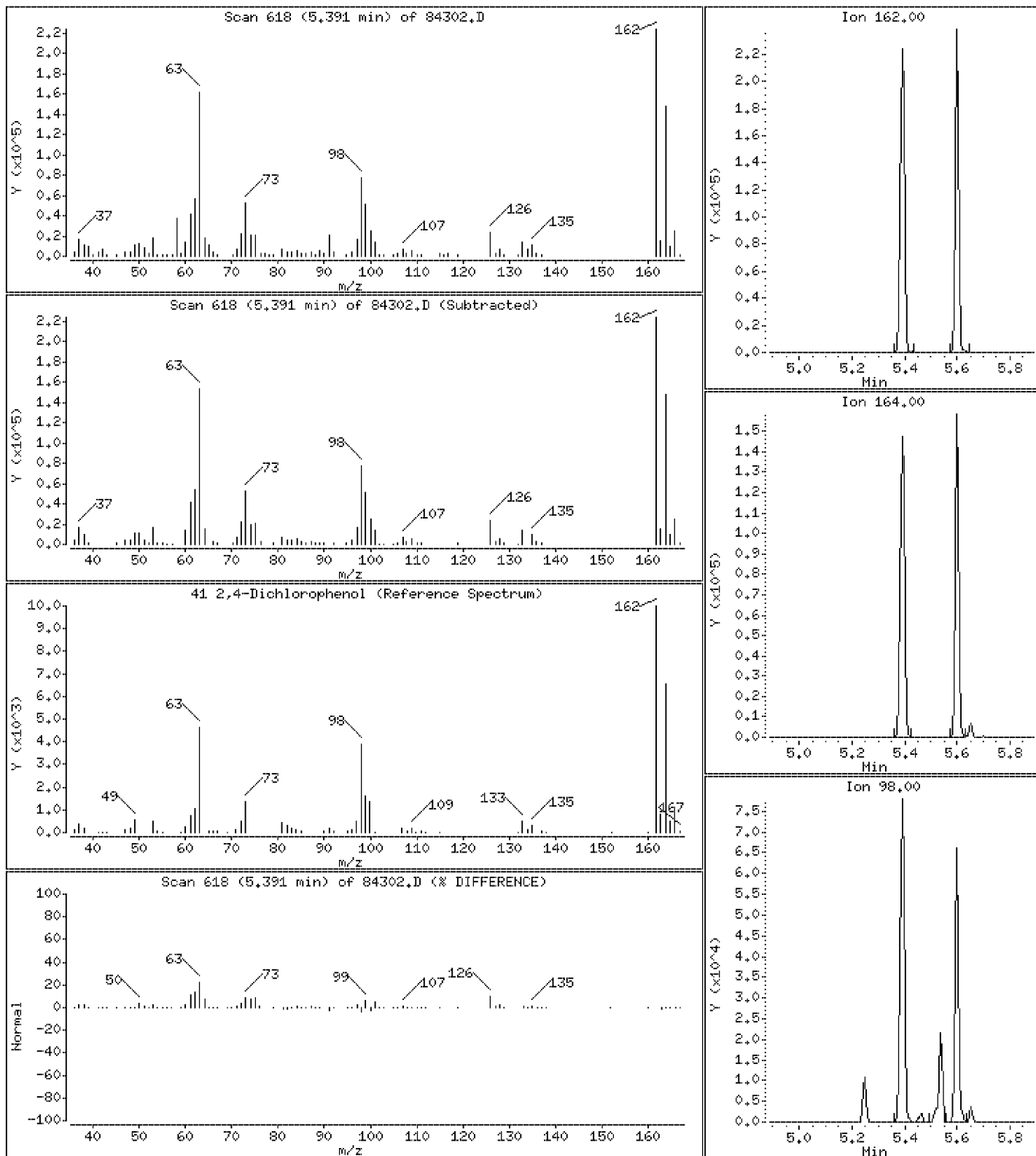
Operator: MJ

Column phase: HPMS-5

Column diameter: 0.25

41 2,4-Dichlorophenol

Concentration: 1480 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

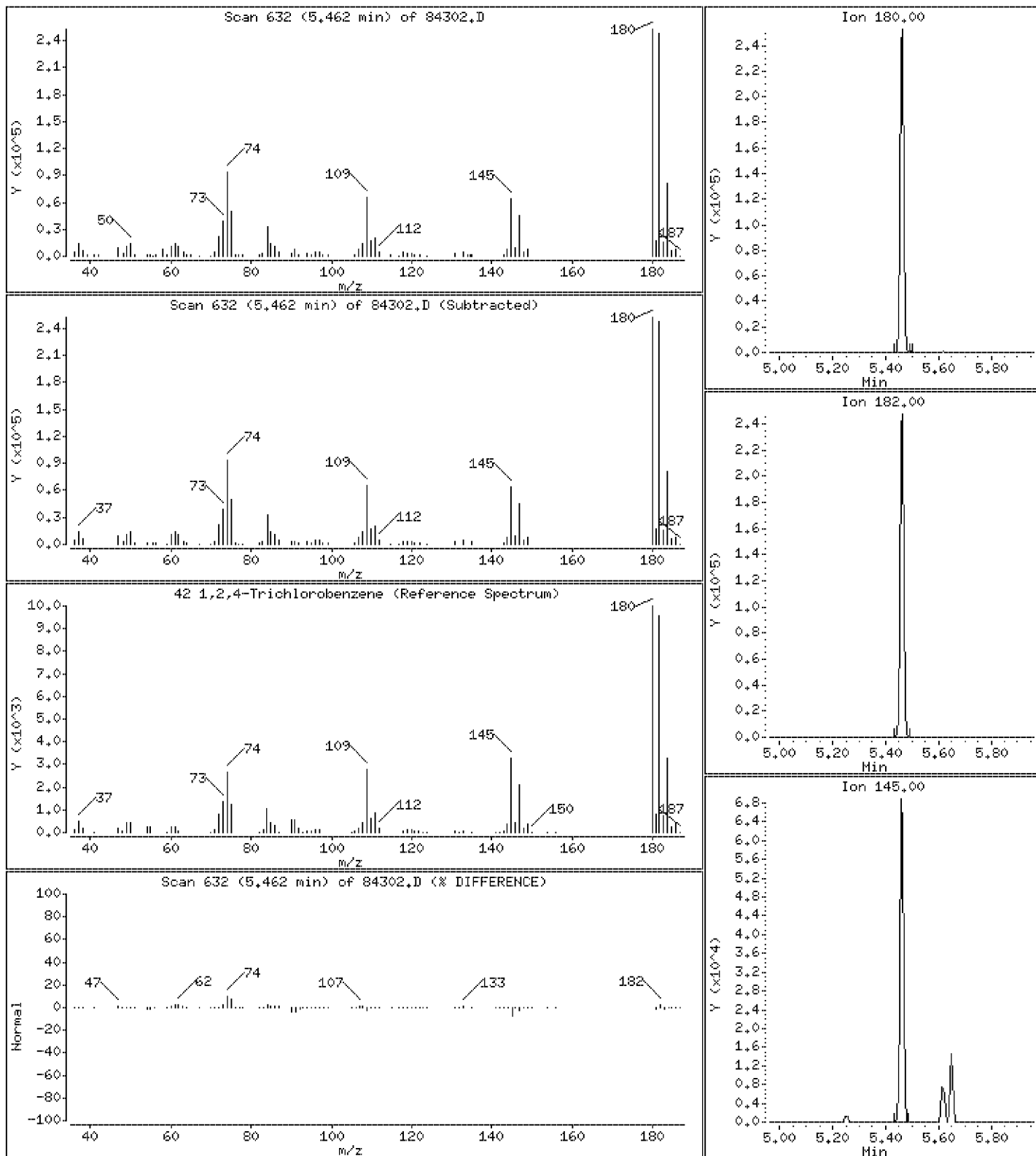
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

42 1,2,4-Trichlorobenzene

Concentration: 1360 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

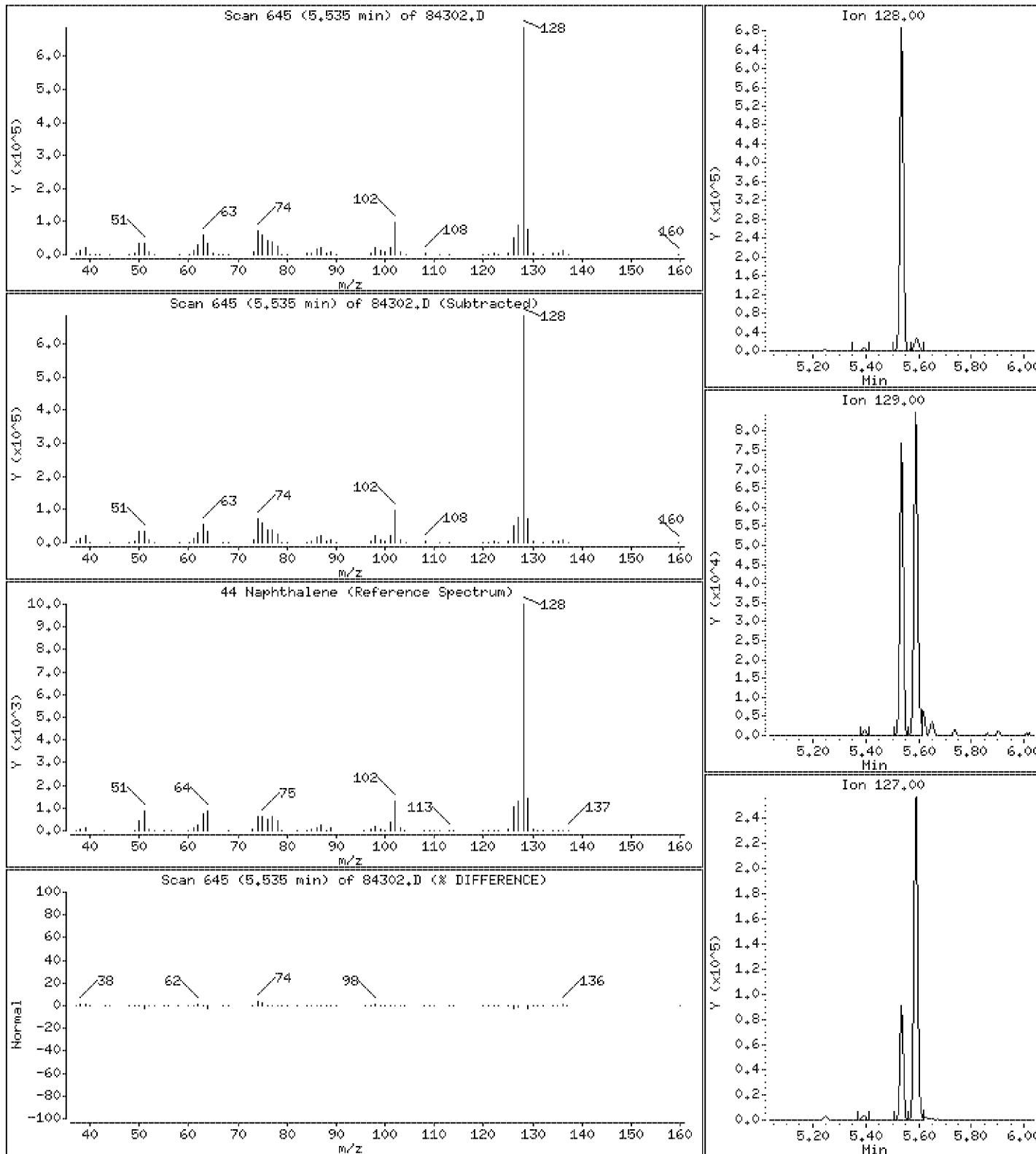
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

44 Naphthalene

Concentration: 1520 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

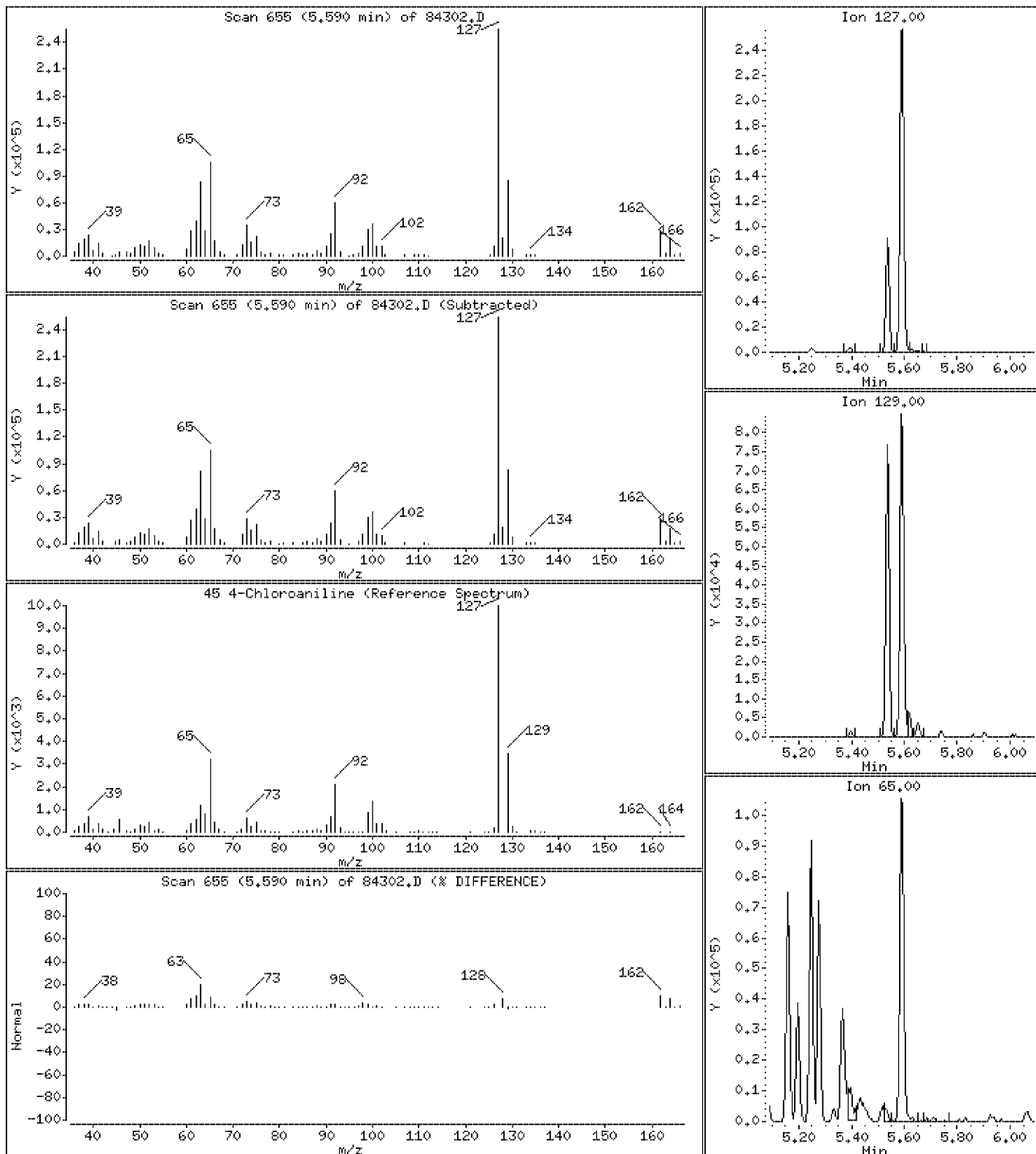
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

45 4-Chloroaniline

Concentration: 1570 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

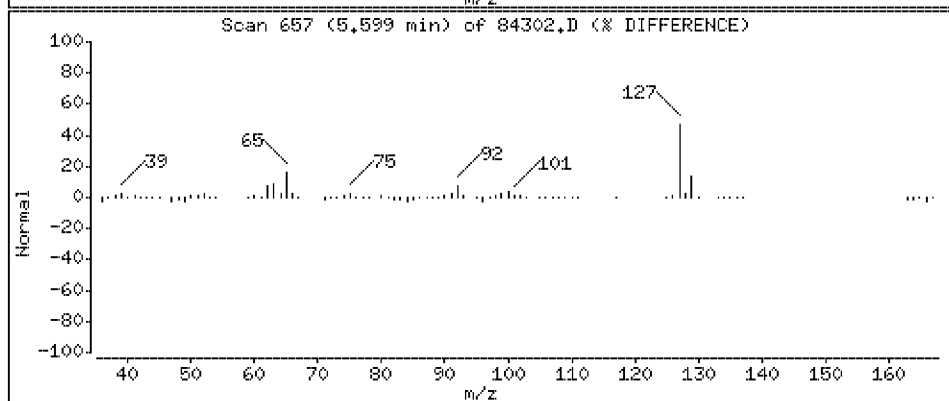
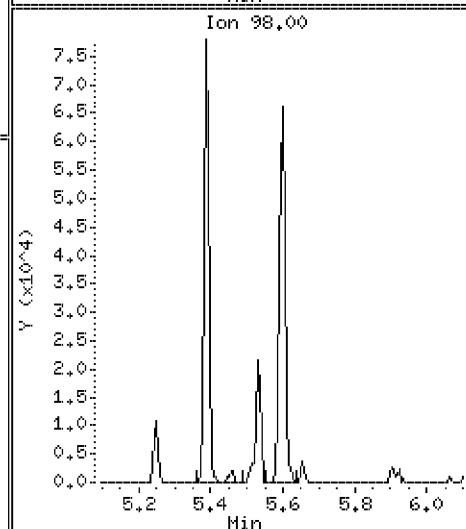
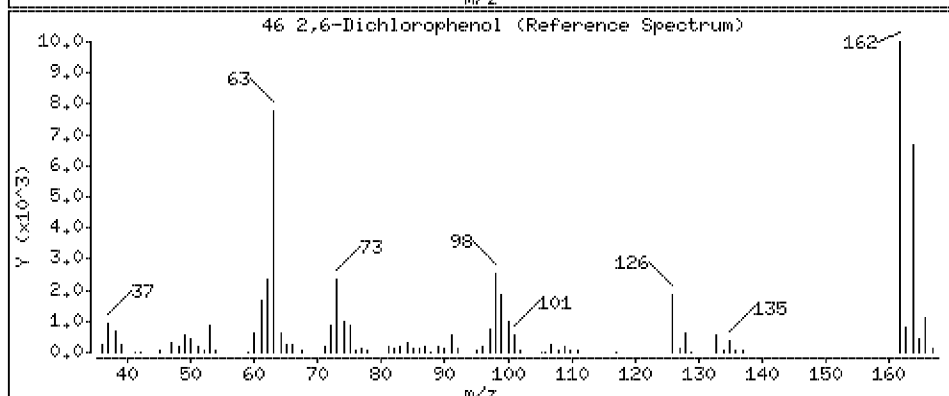
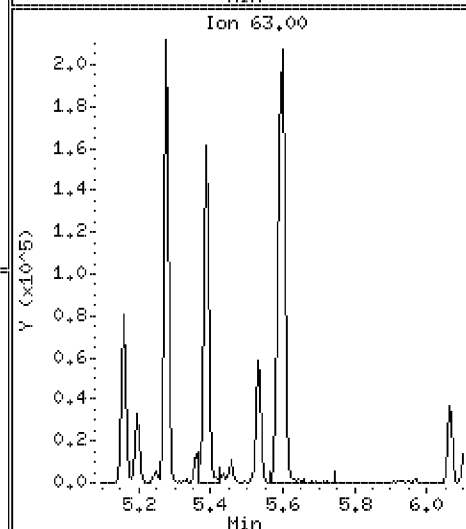
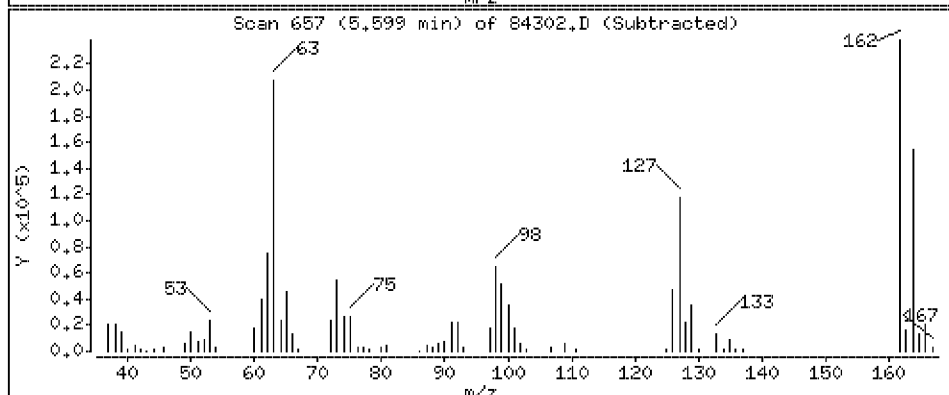
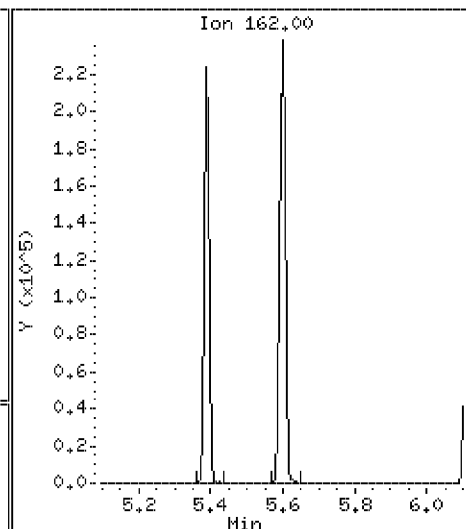
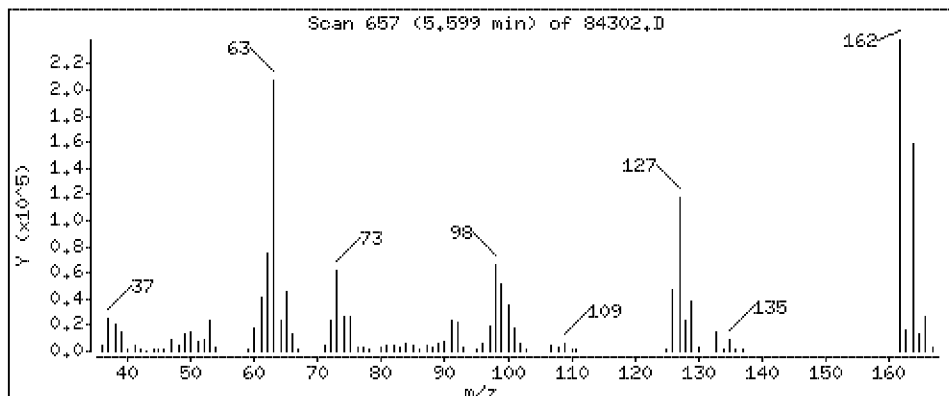
Operator: MJ

Column phase: HPMS-5

Column diameter: 0.25

46 2,6-Dichlorophenol

Concentration: 1590 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

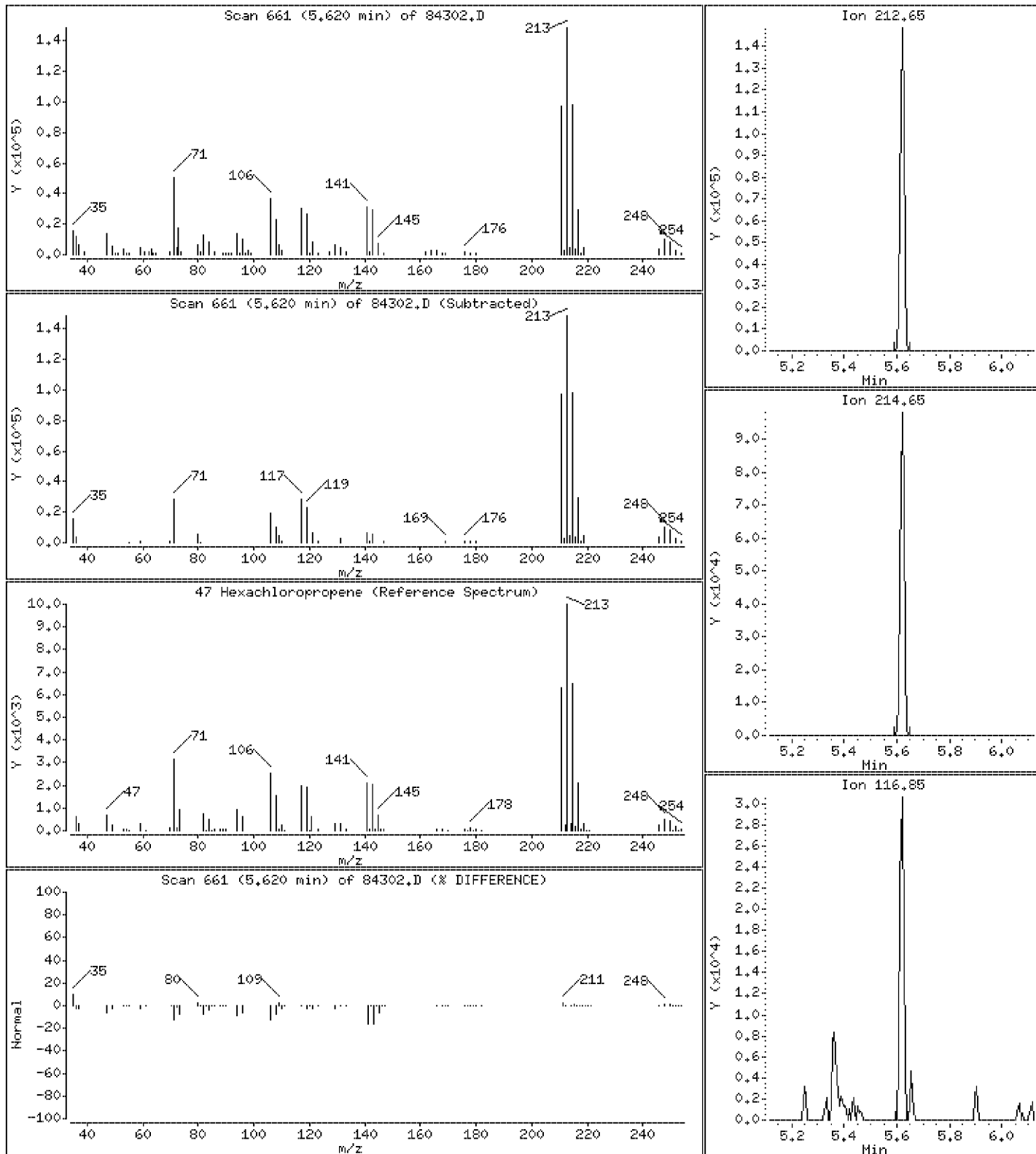
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

47 Hexachloropropene

Concentration: 715 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

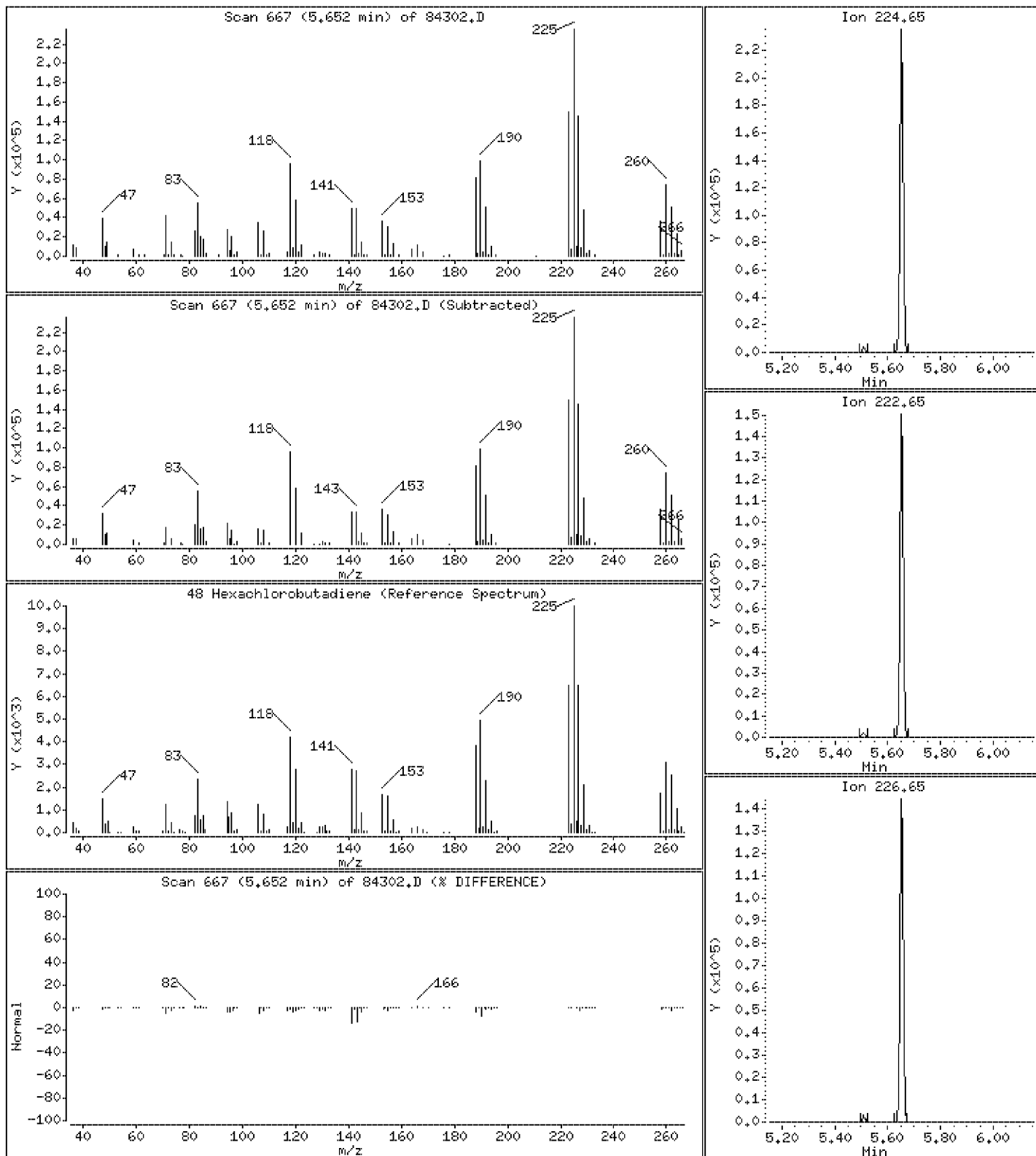
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

48 Hexachlorobutadiene

Concentration: 1470 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

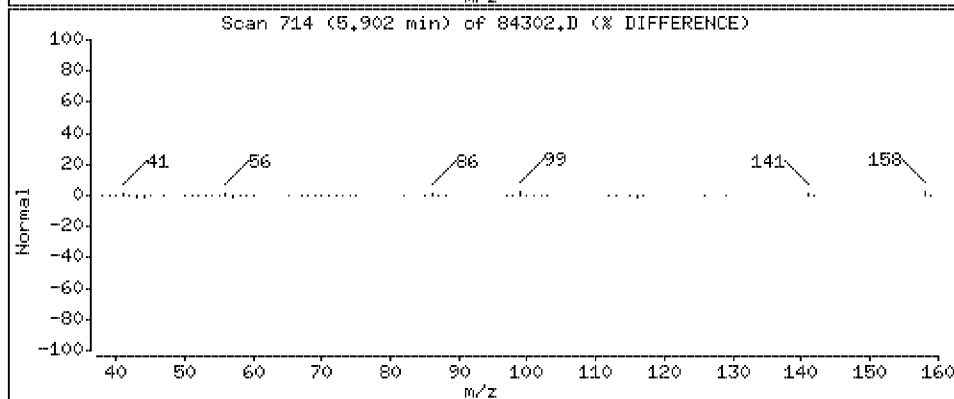
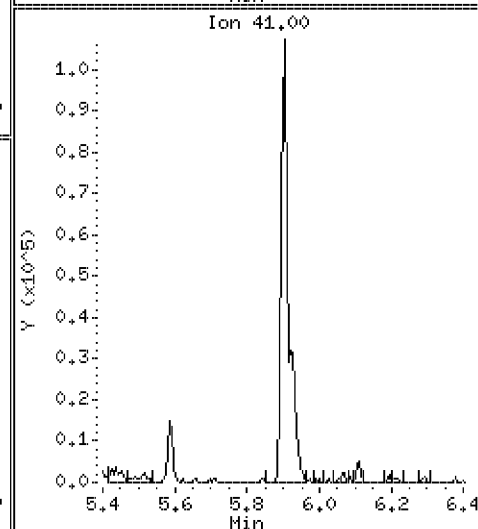
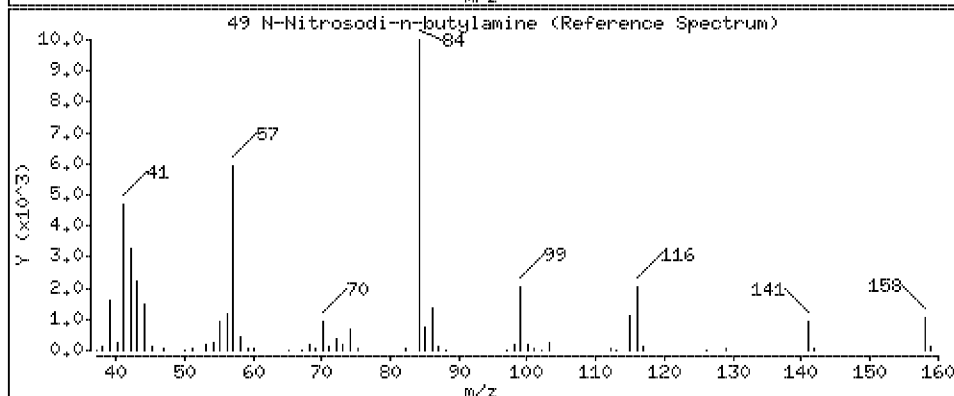
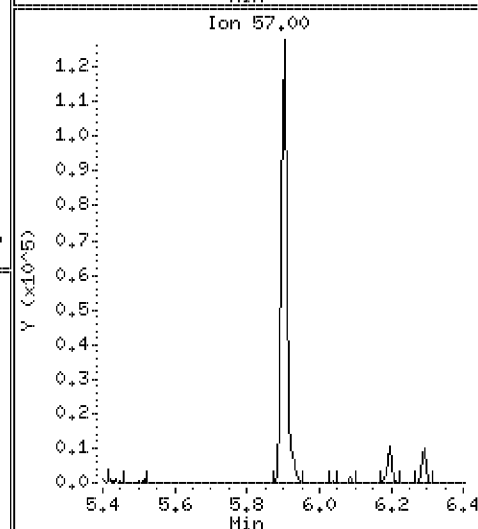
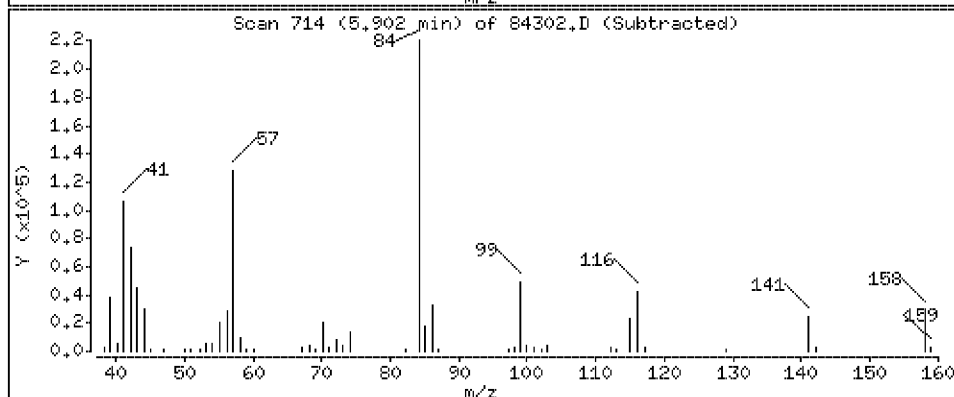
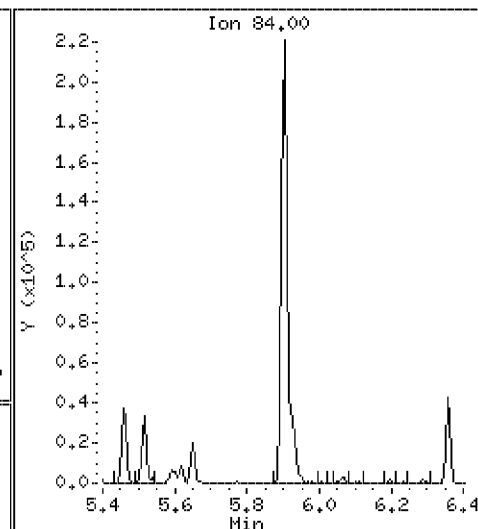
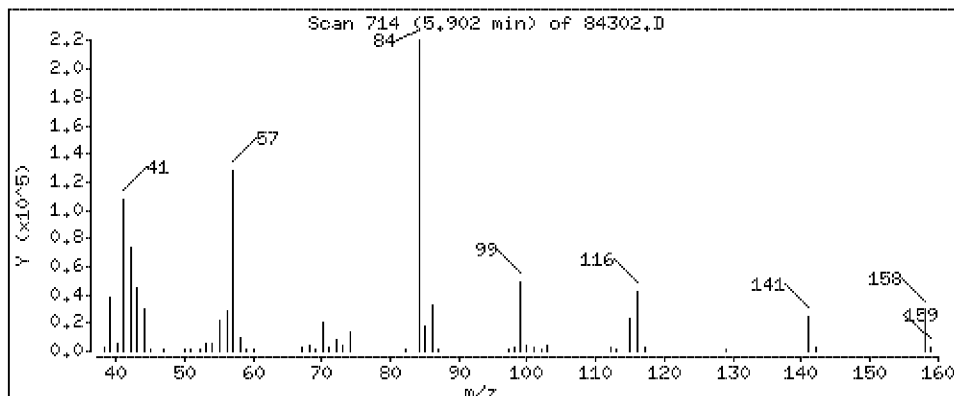
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

49 N-Nitrosodi-n-butylamine

Concentration: 1760 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

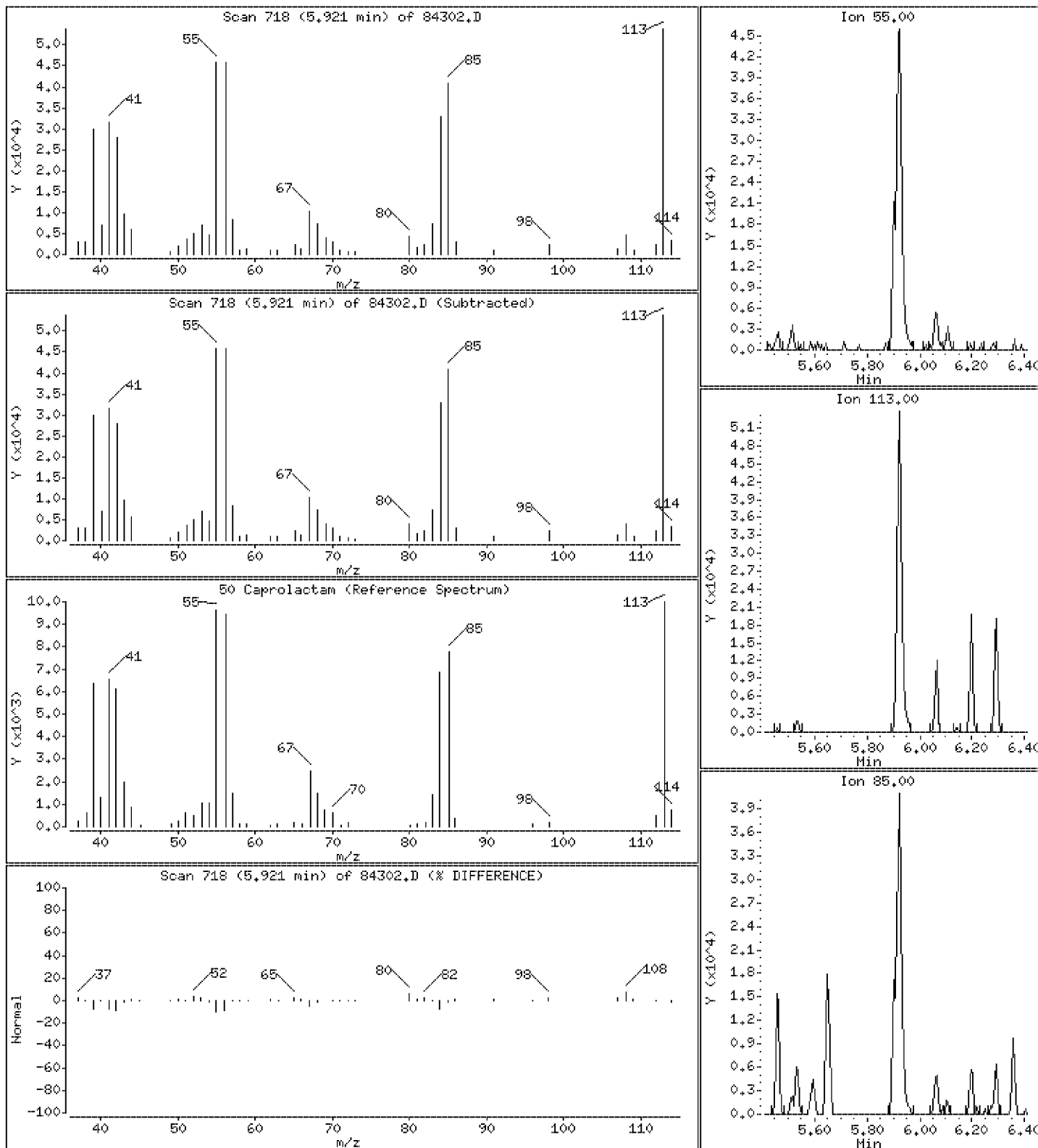
Operator: MJ

Column phase: HPMS-5

Column diameter: 0.25

50 Caprolactam

Concentration: 1820 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

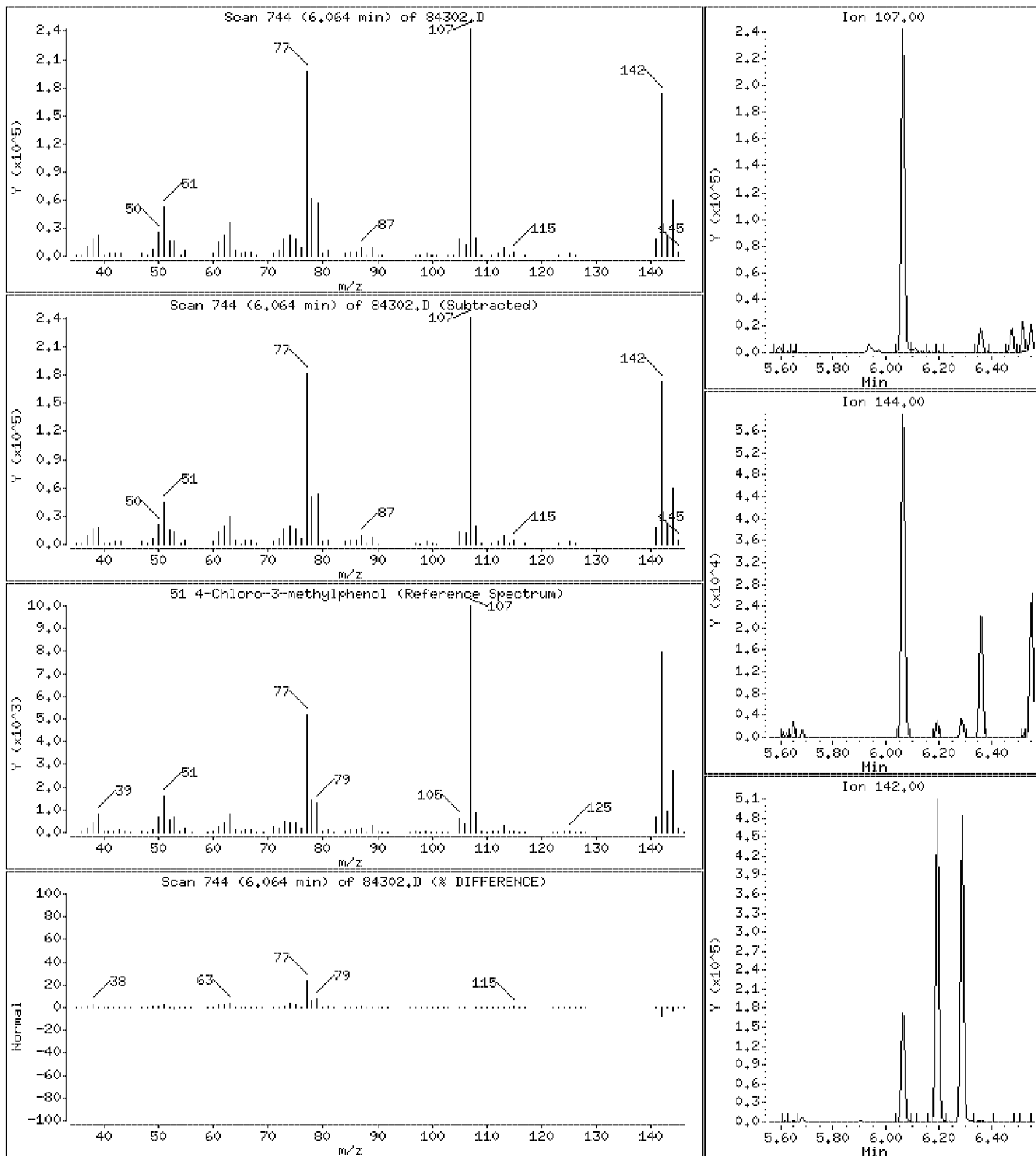
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

51 4-Chloro-3-methylphenol

Concentration: 1600 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

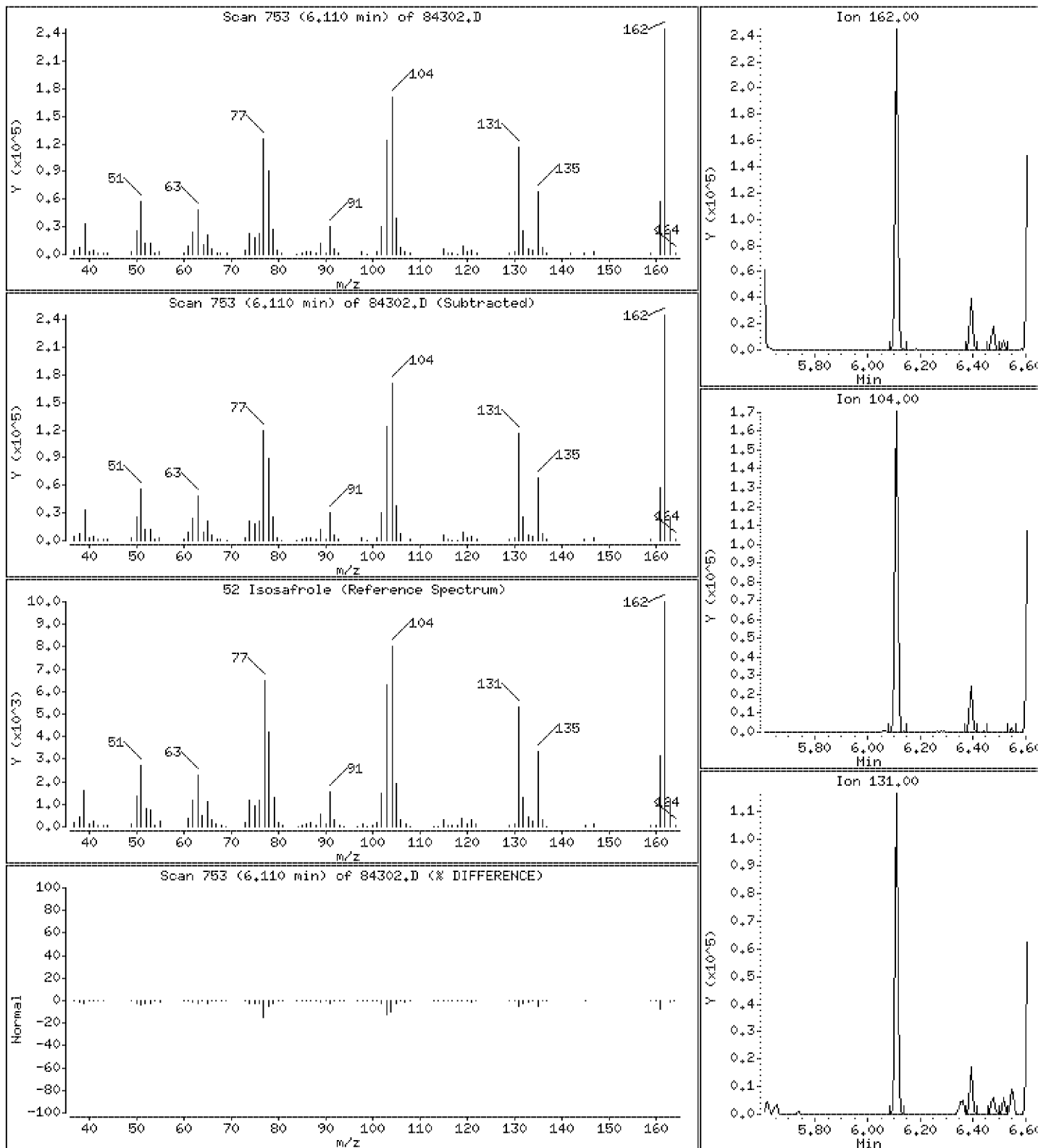
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

52 Isosafrole

Concentration: 1490 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

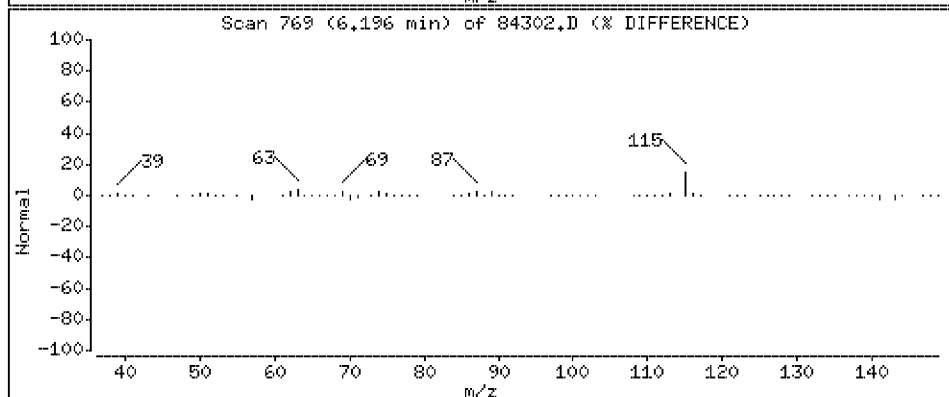
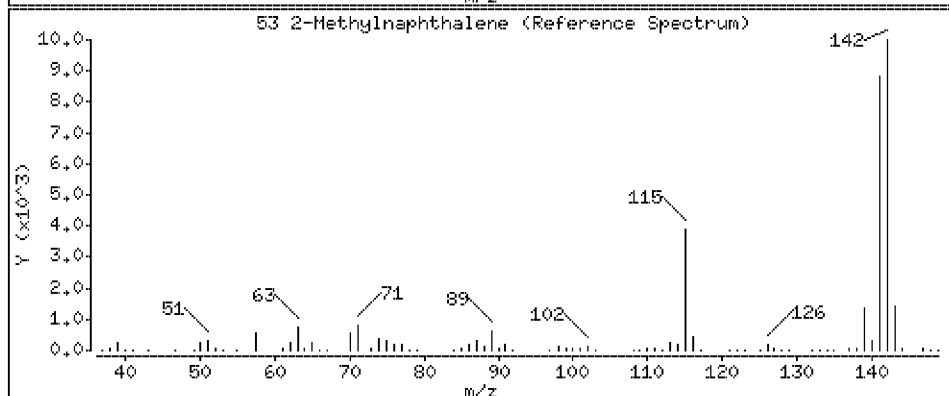
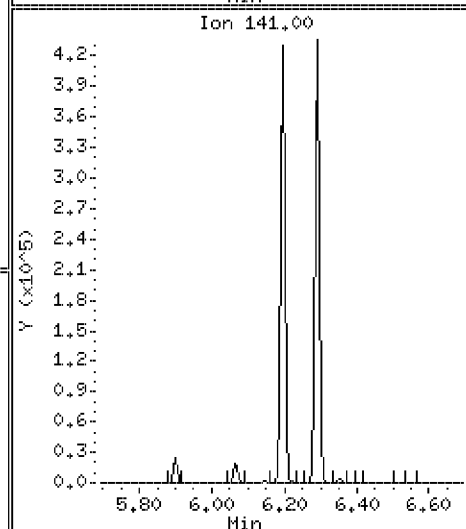
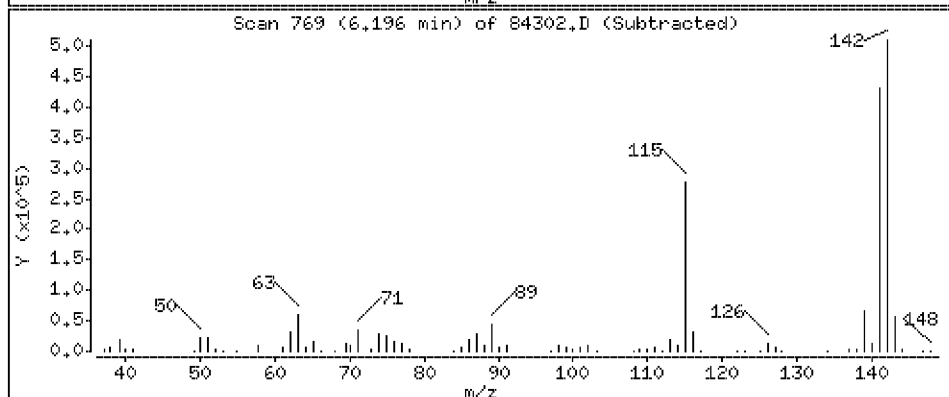
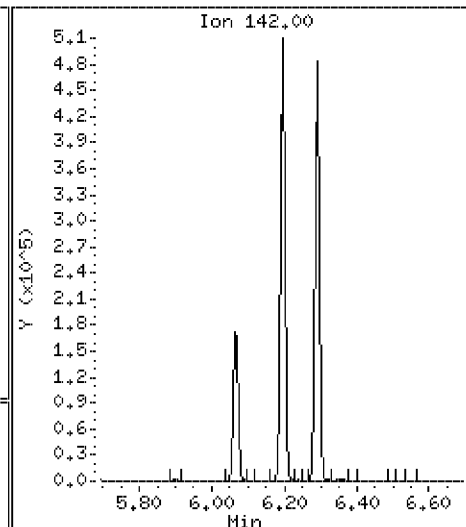
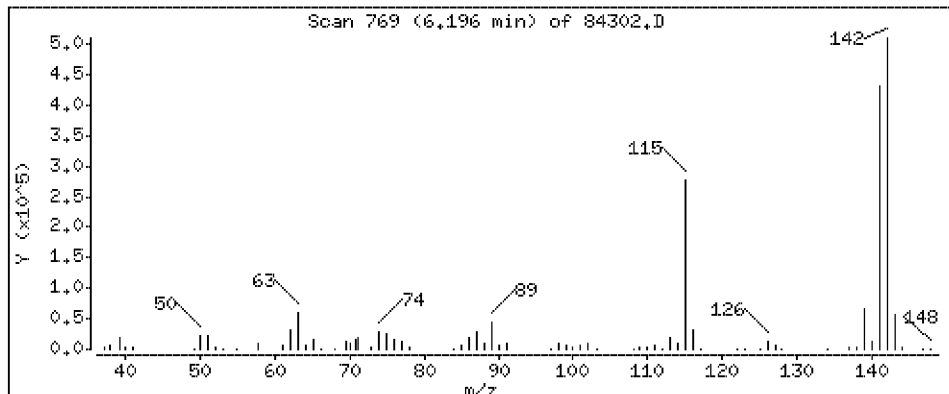
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

53 2-Methylnaphthalene

Concentration: 1450 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

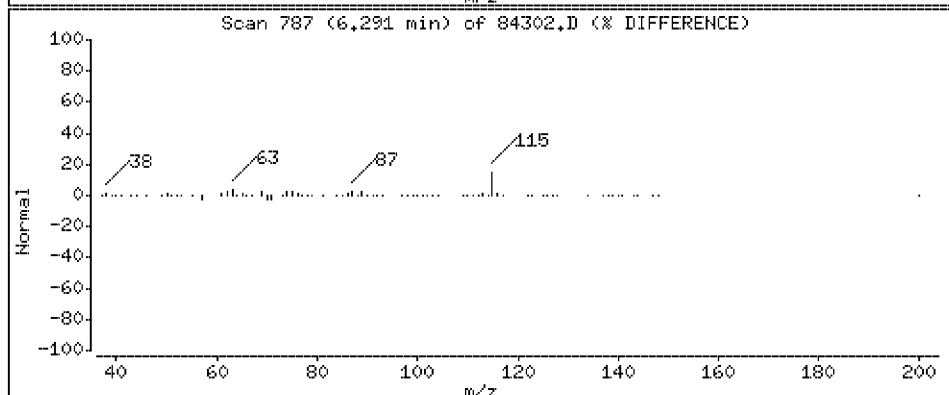
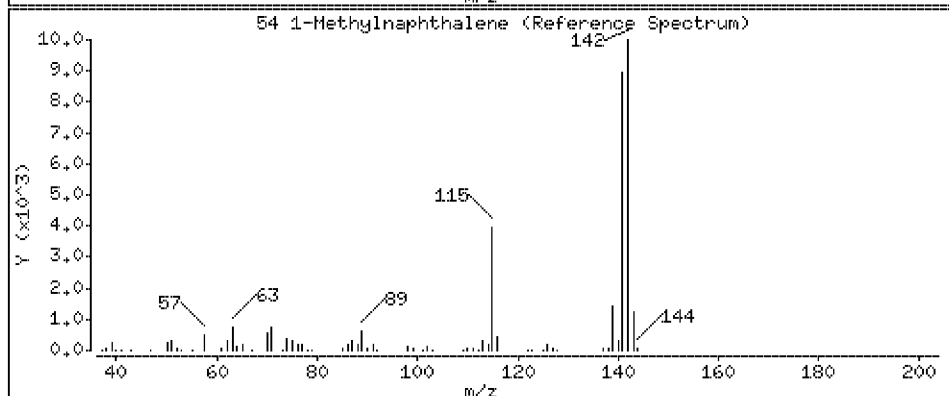
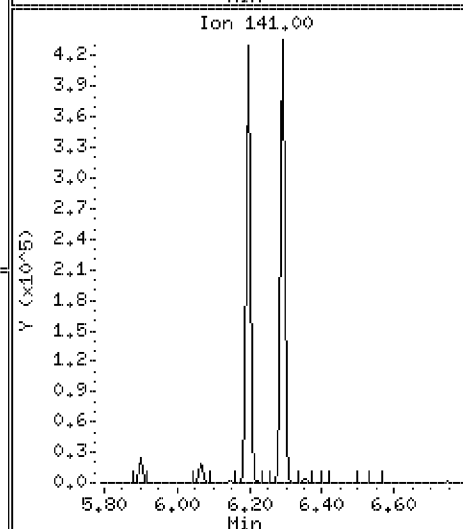
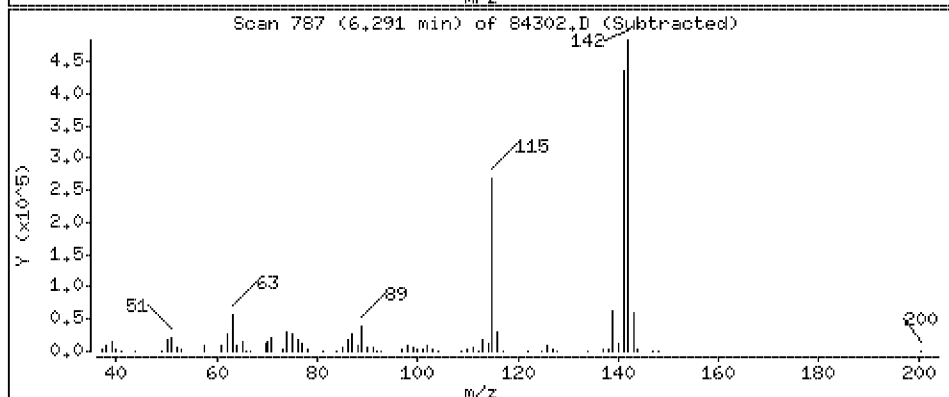
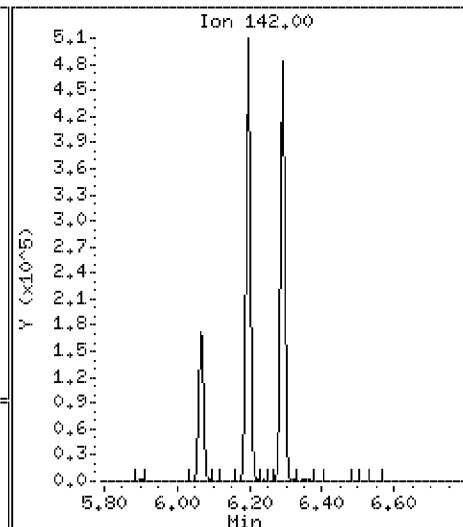
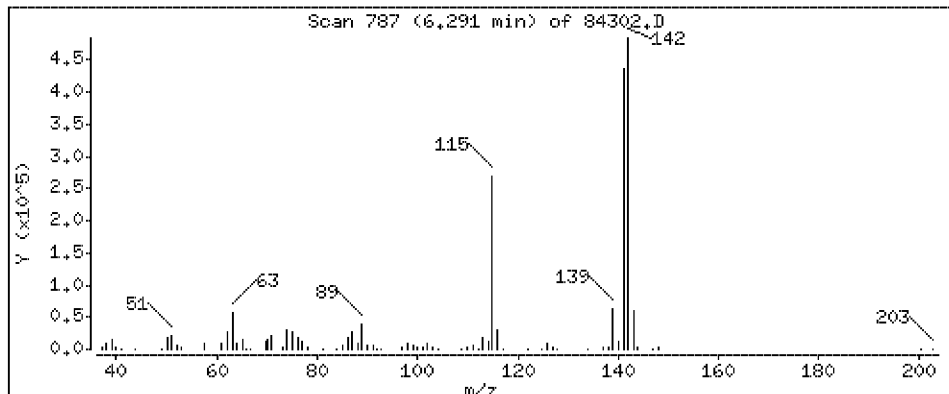
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

54 1-Methylnaphthalene

Concentration: 1530 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

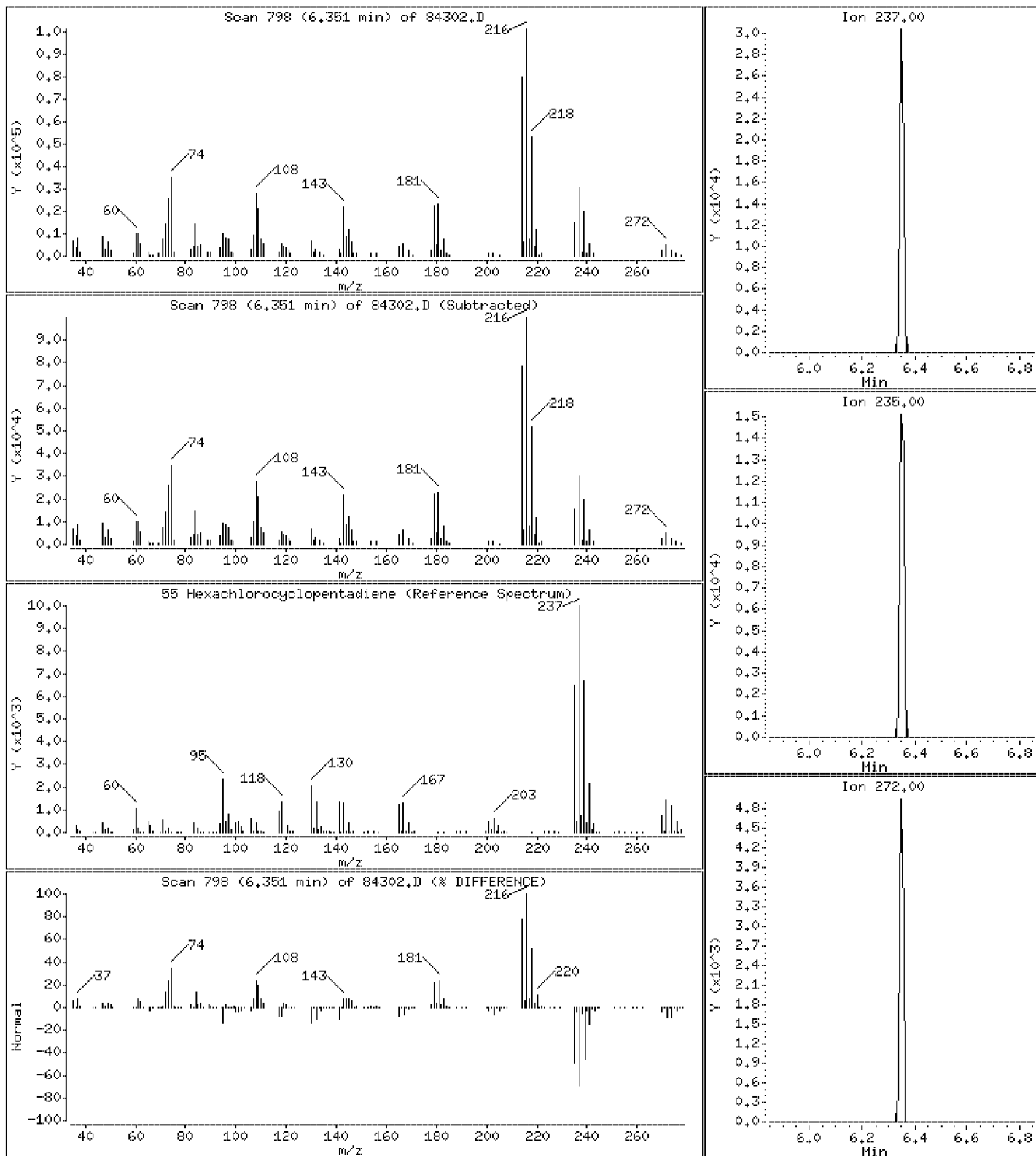
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

55 Hexachlorocyclopentadiene

Concentration: 129 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

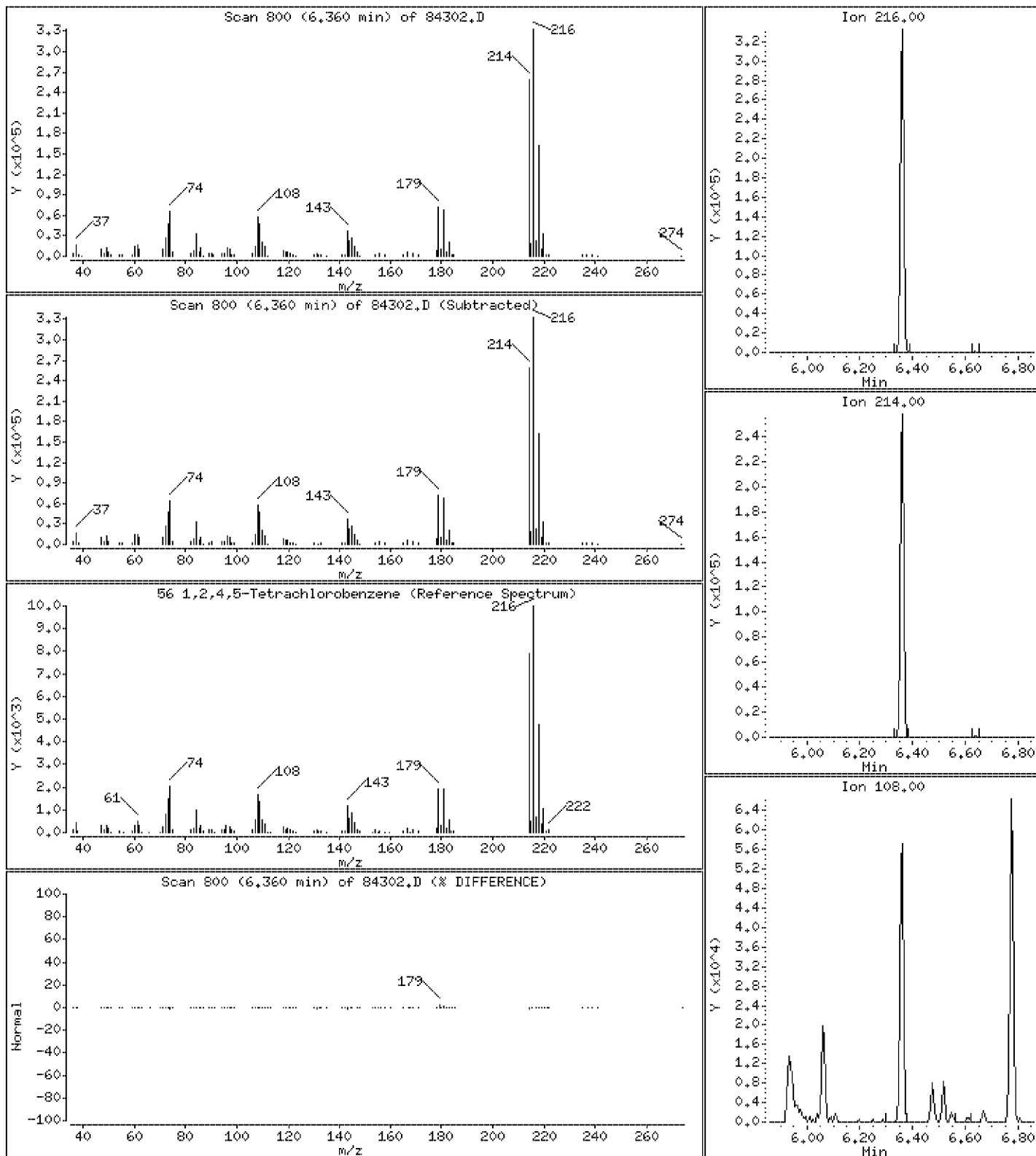
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

56 1,2,4,5-Tetrachlorobenzene

Concentration: 1370 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

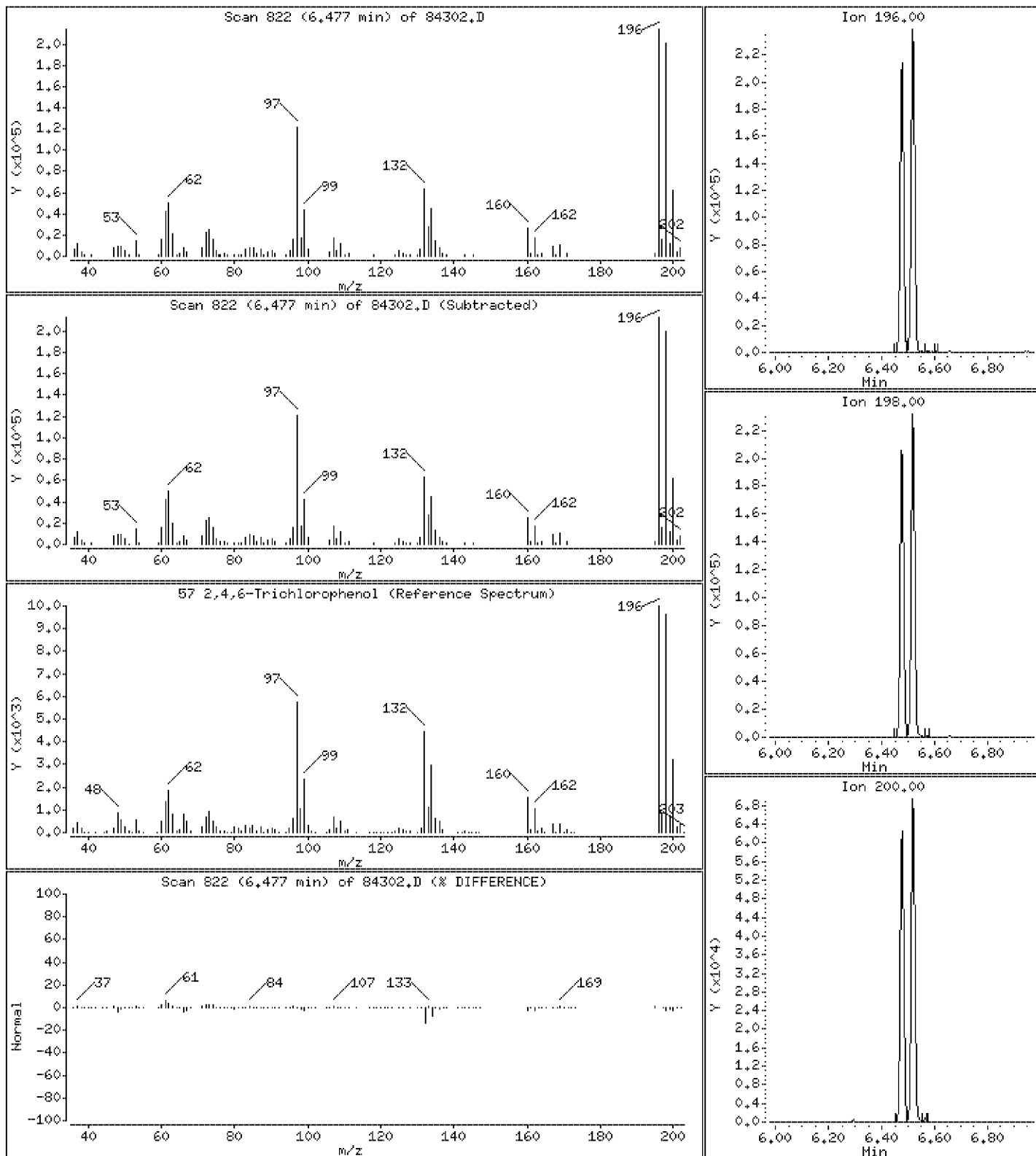
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

57 2,4,6-Trichlorophenol

Concentration: 1390 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

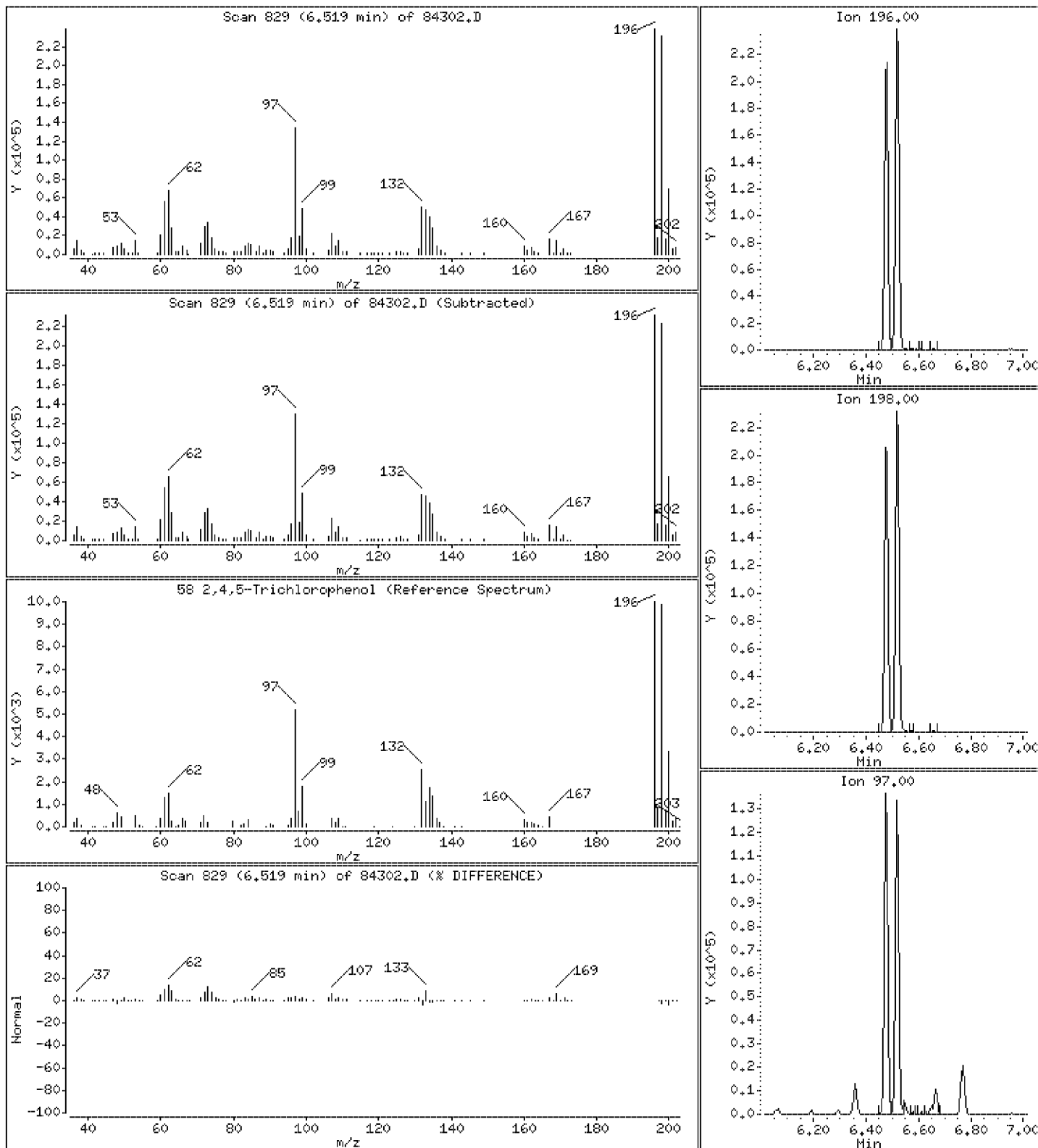
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

58 2,4,5-Trichlorophenol

Concentration: 1720 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

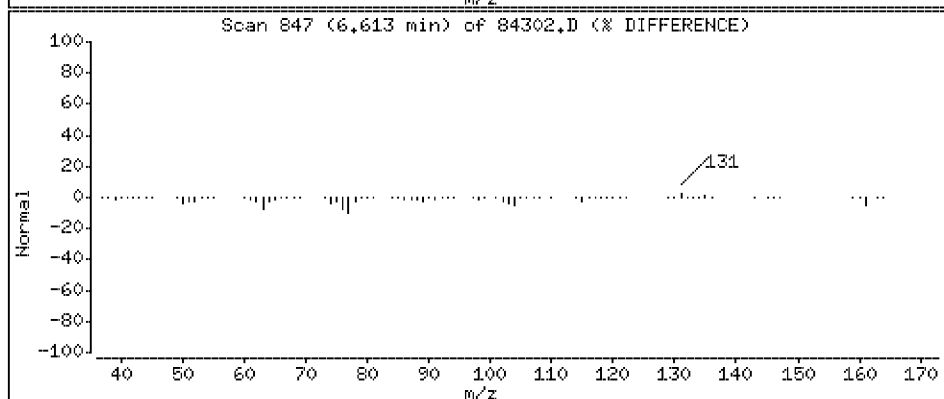
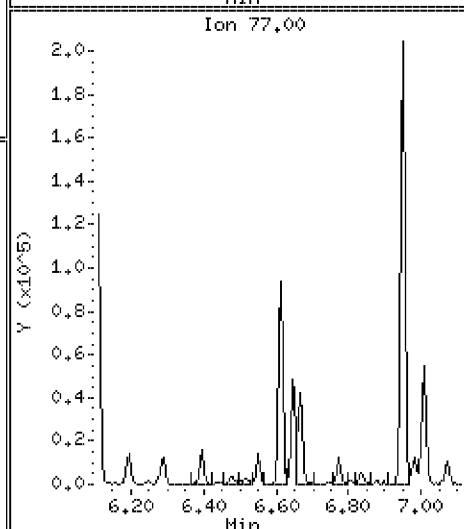
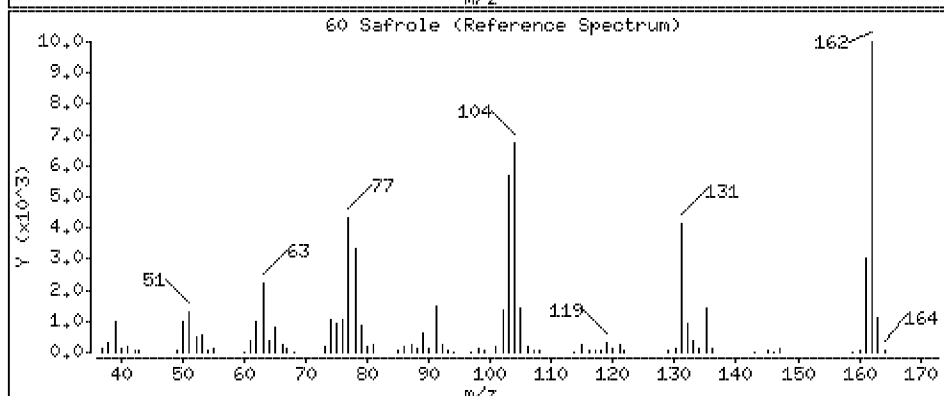
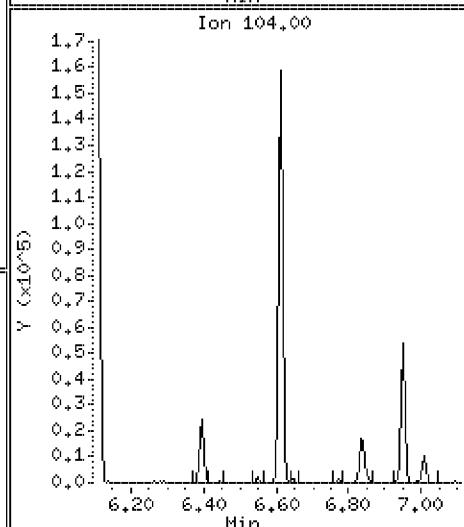
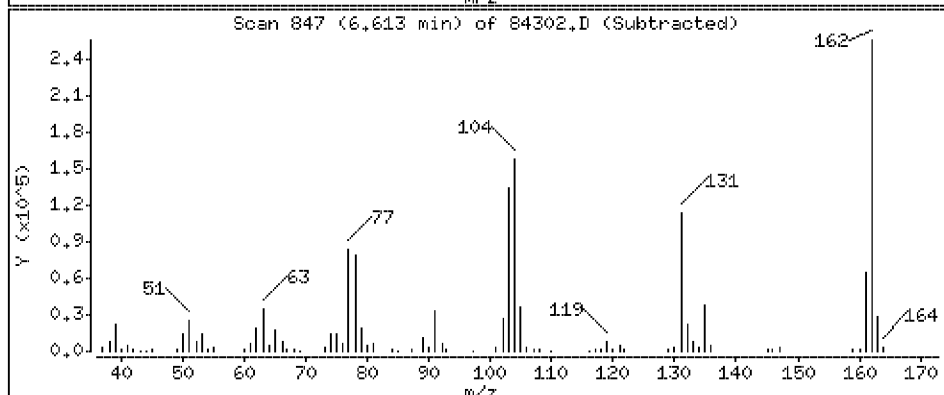
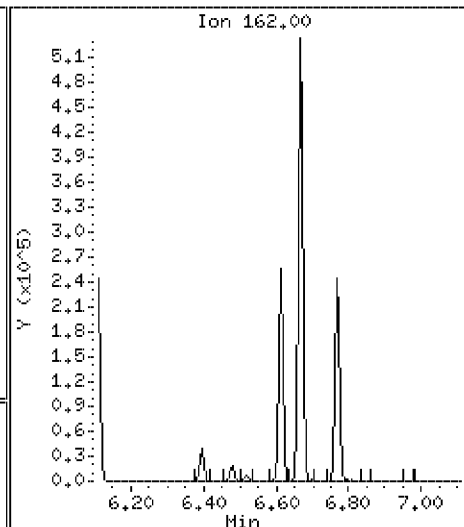
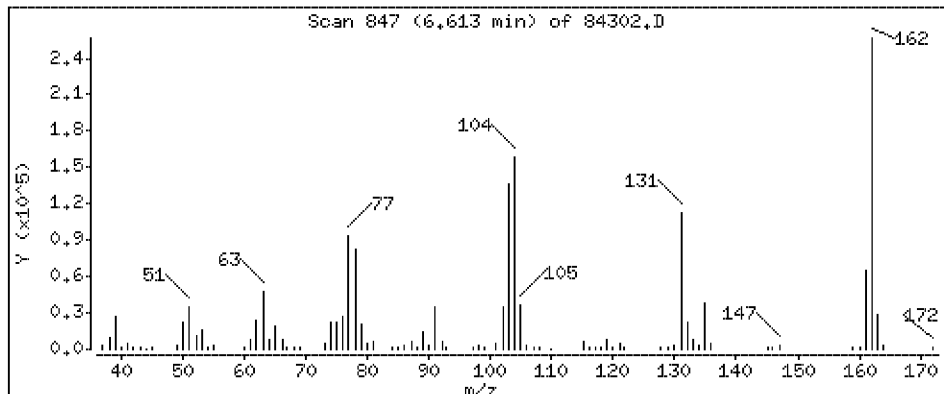
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

60 Safrole

Concentration: 1710 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

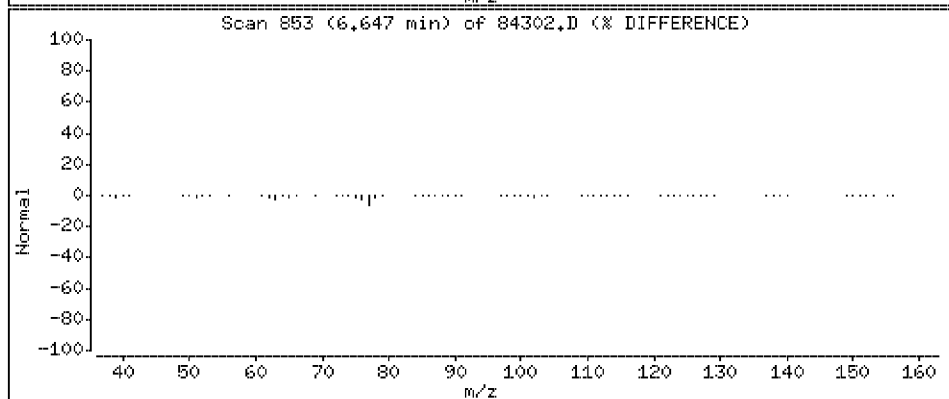
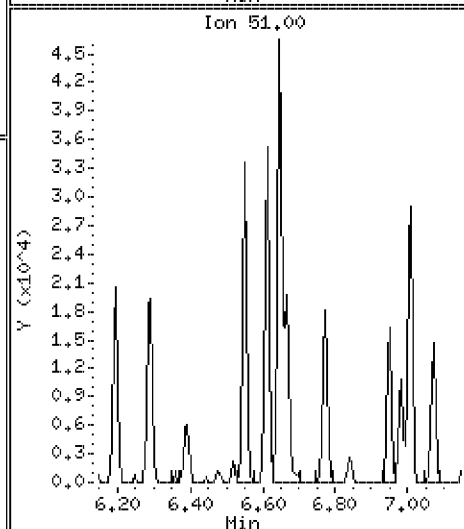
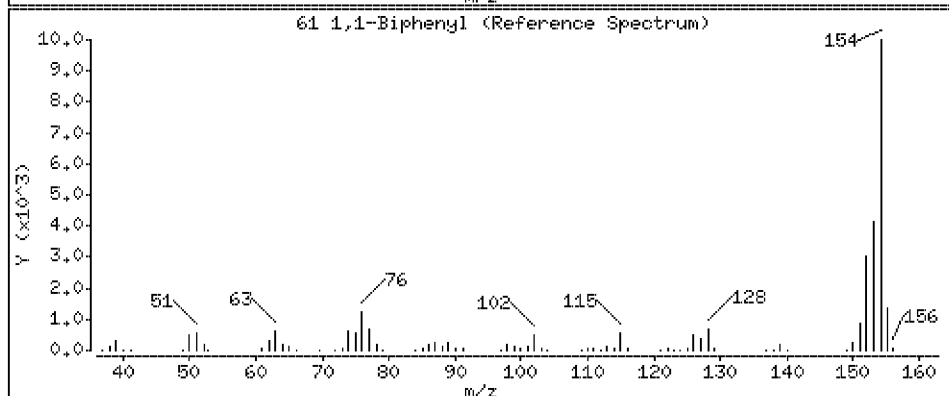
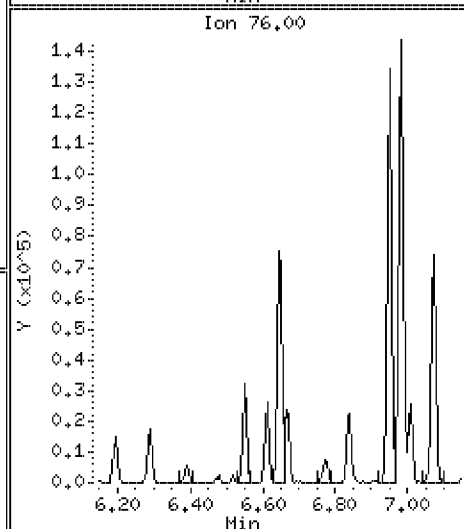
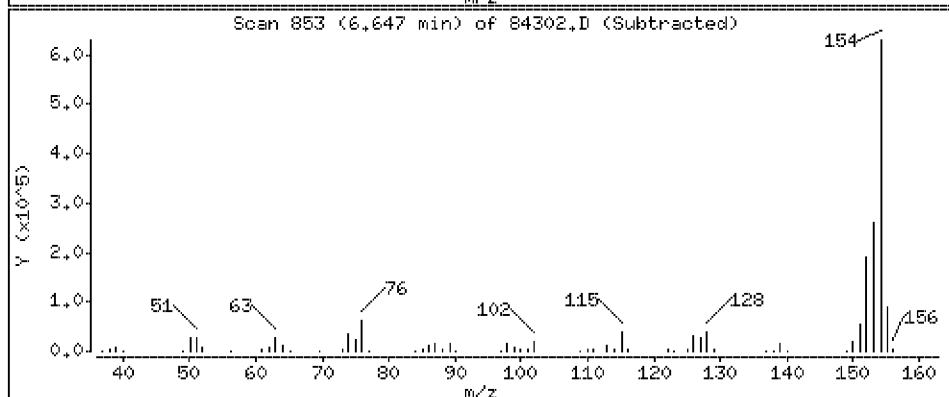
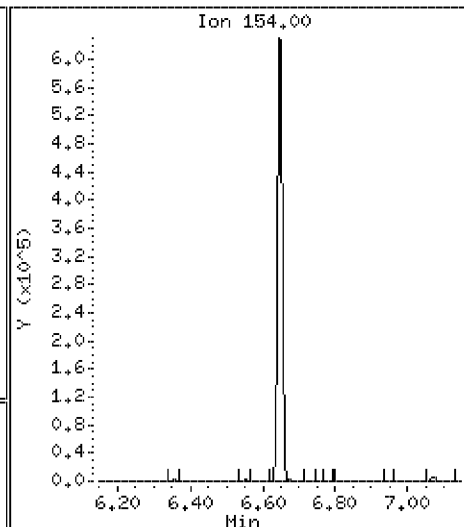
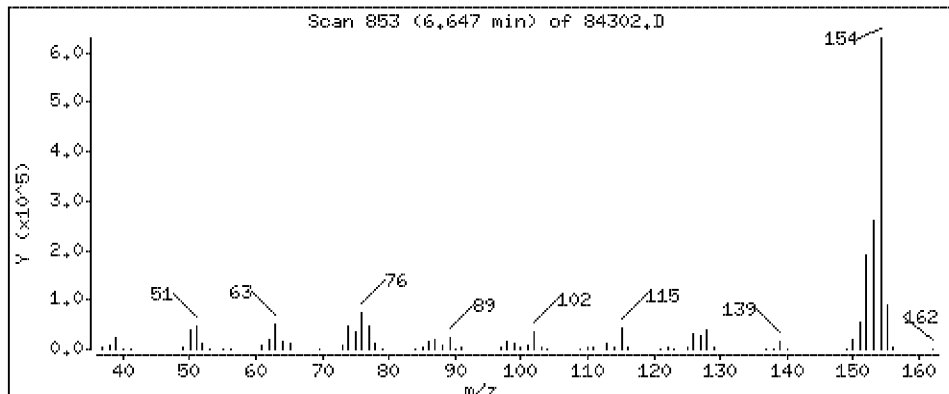
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

61 1,1-Biphenyl

Concentration: 1280 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

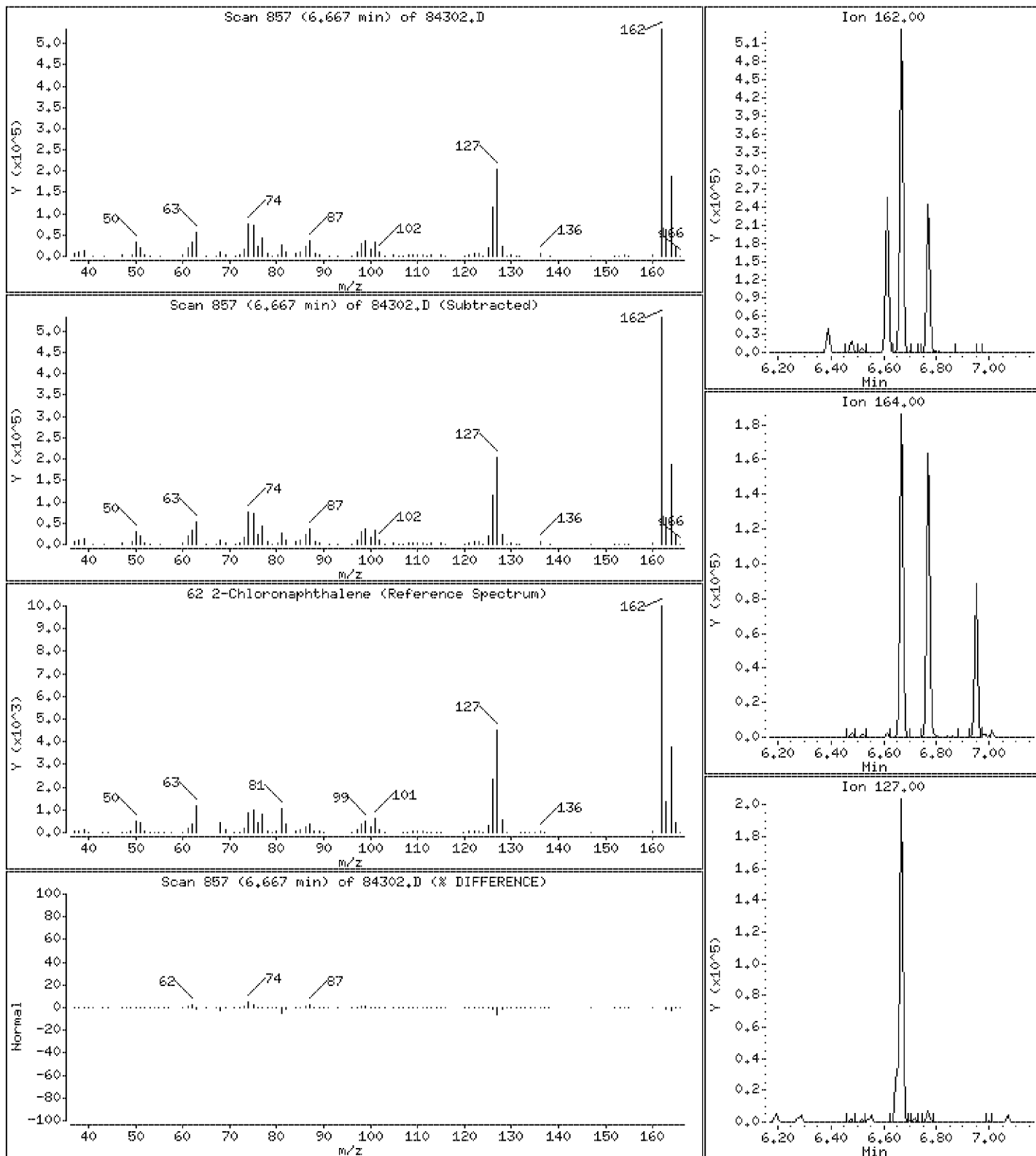
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

62 2-Chloronaphthalene

Concentration: 1410 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

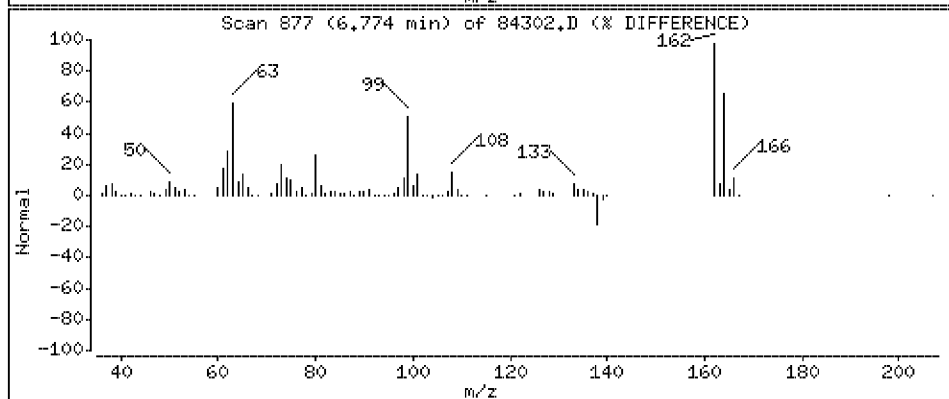
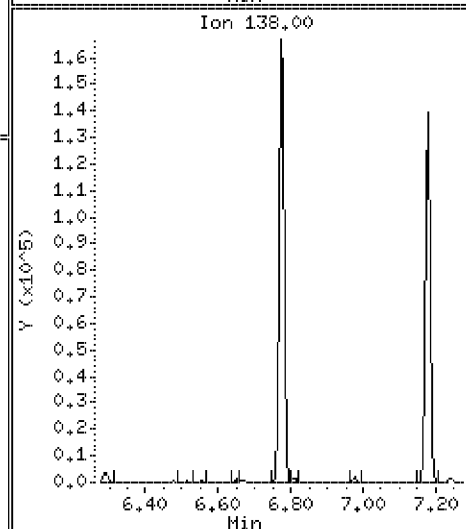
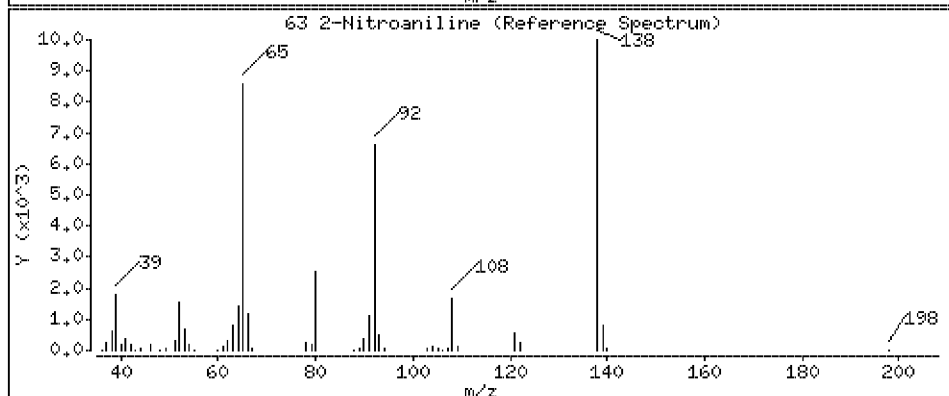
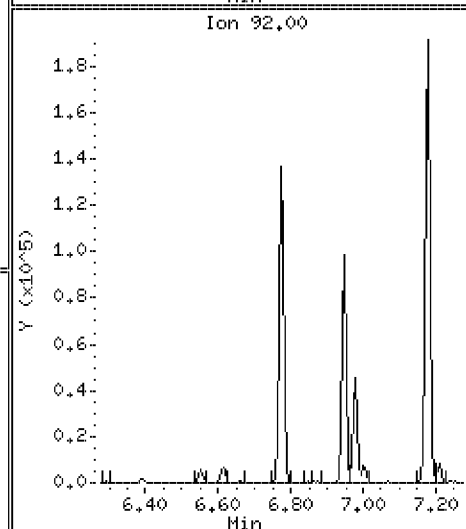
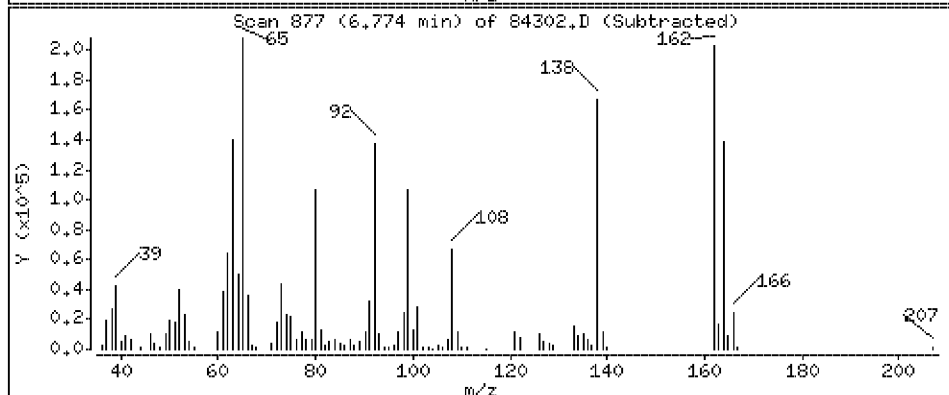
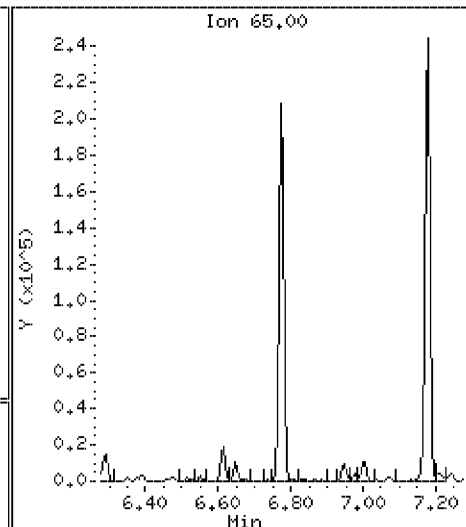
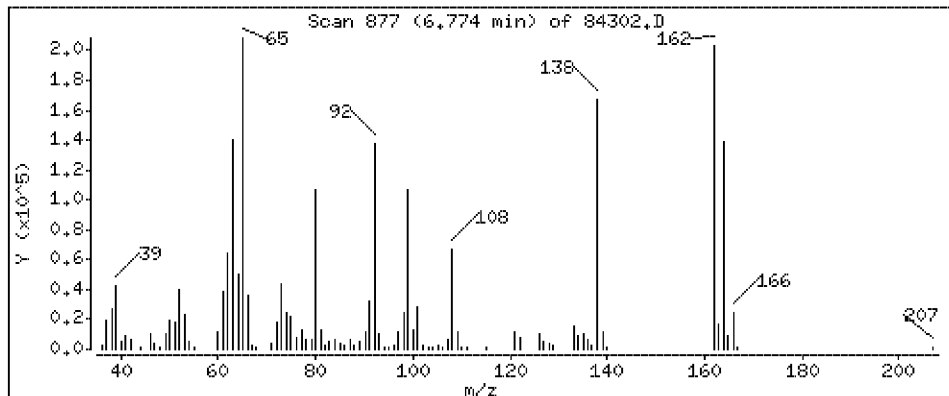
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

63 2-Nitroaniline

Concentration: 1690 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

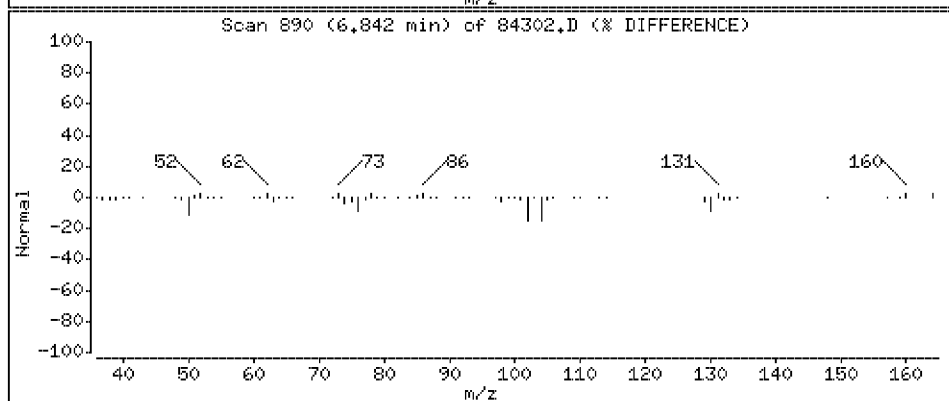
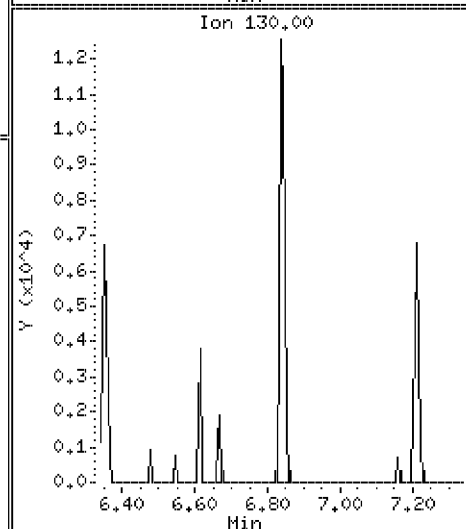
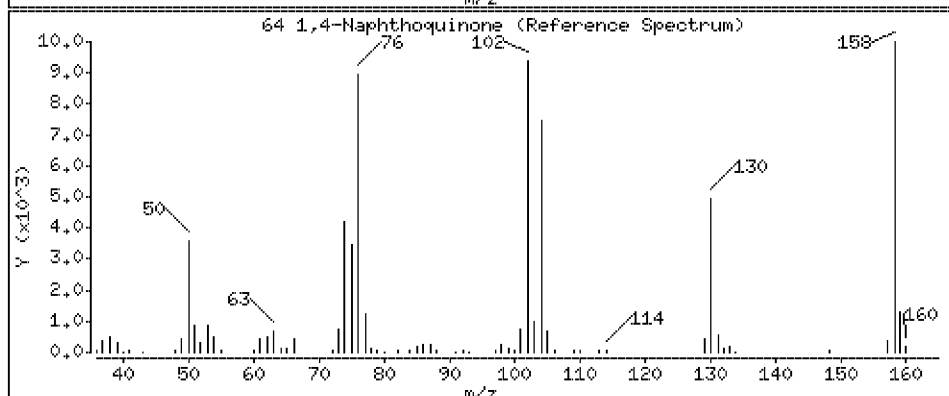
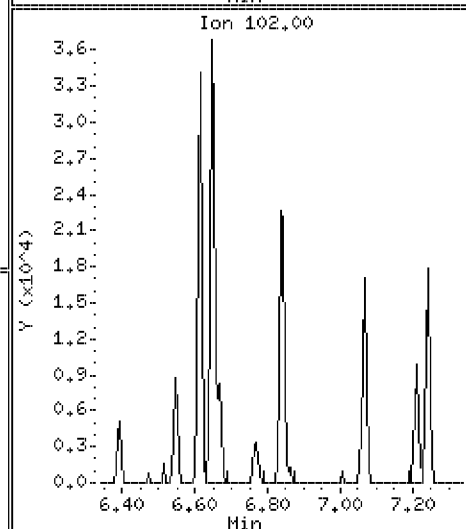
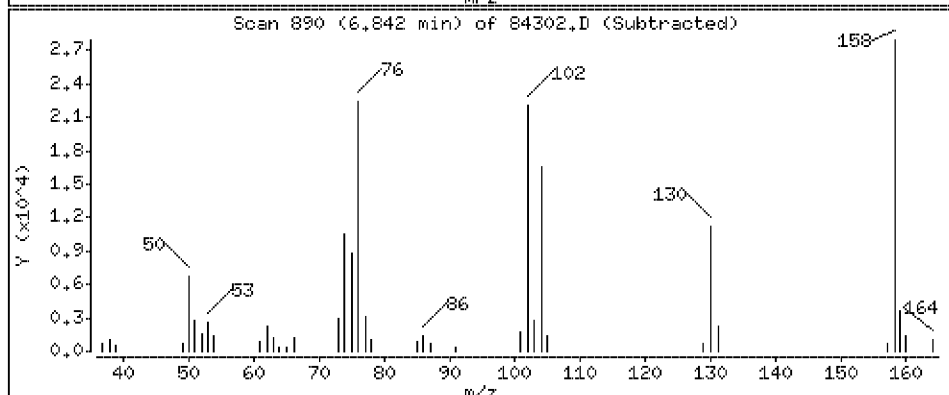
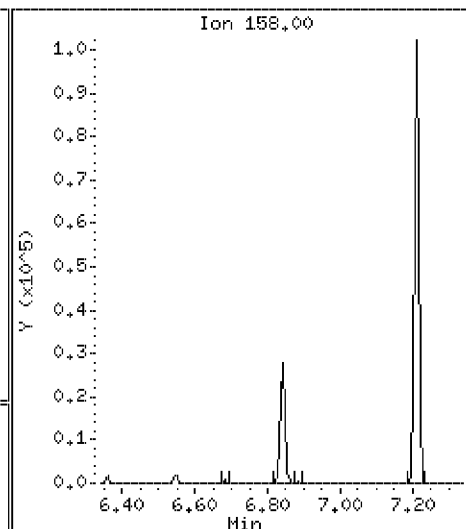
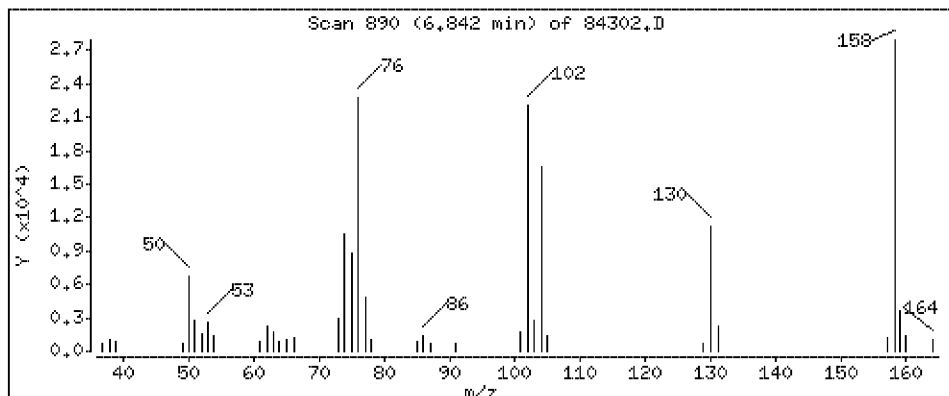
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

64 1,4-Naphthoquinone

Concentration: 212 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

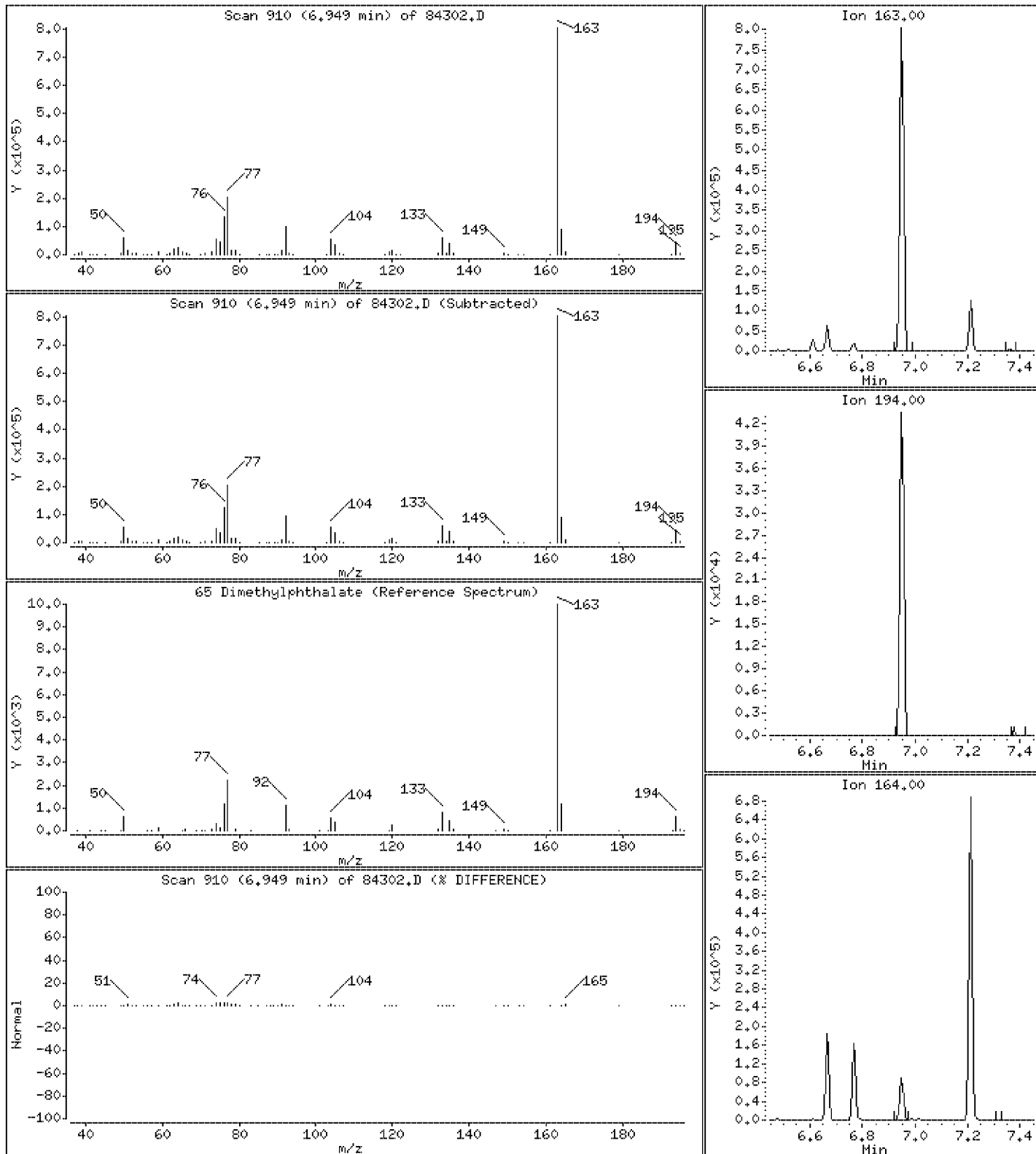
Operator: MJ

Column phase: HPMS-5

Column diameter: 0.25

65 Dimethylphthalate

Concentration: 1670 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

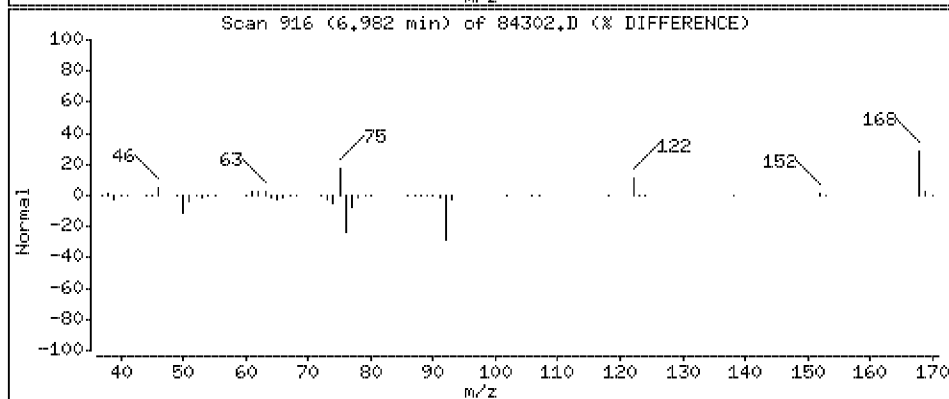
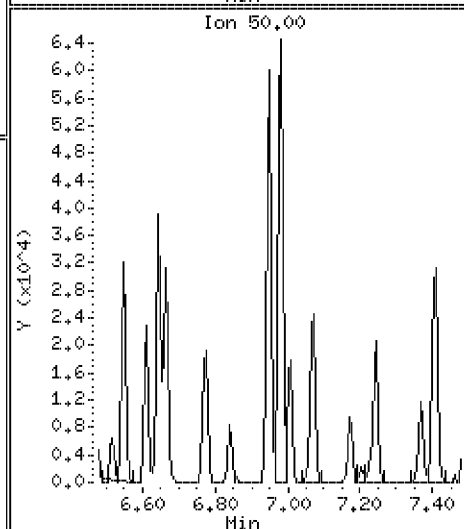
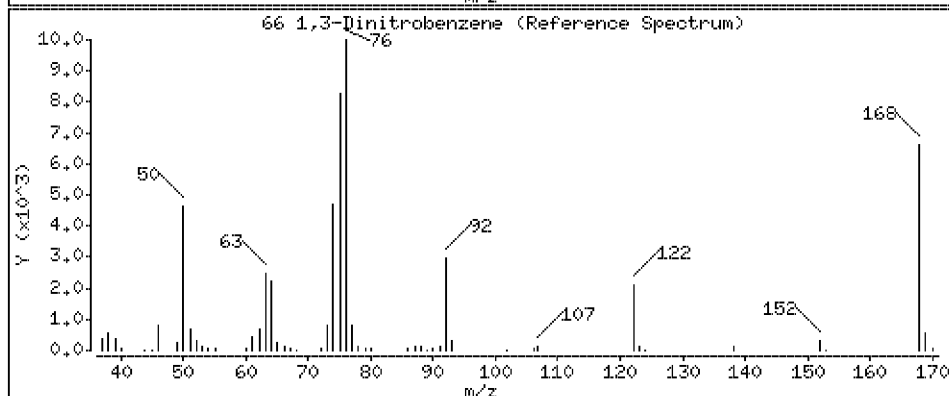
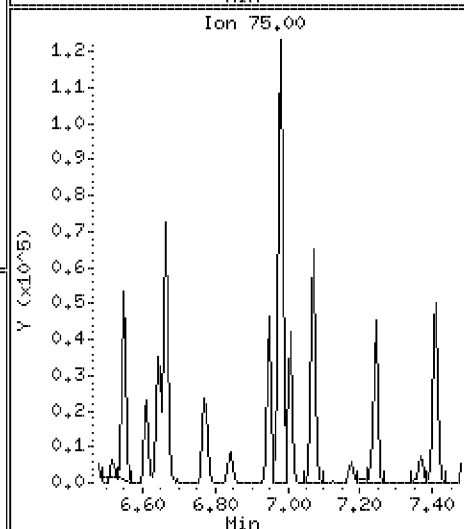
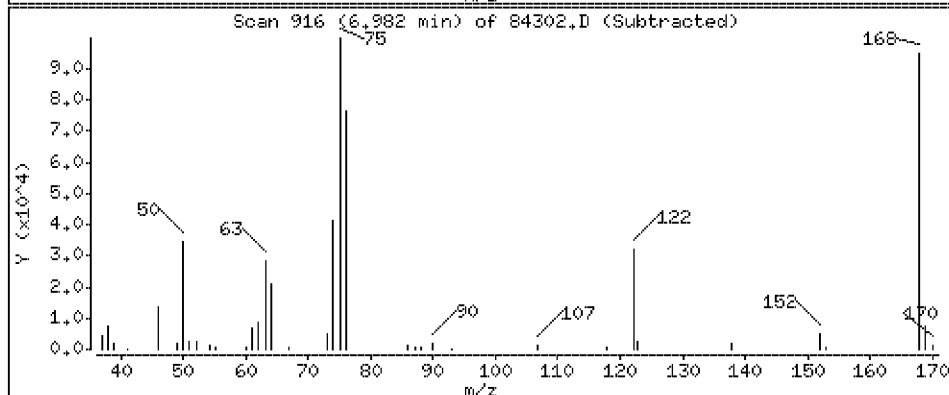
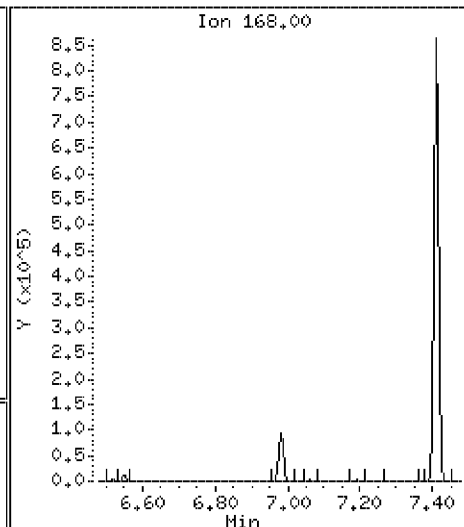
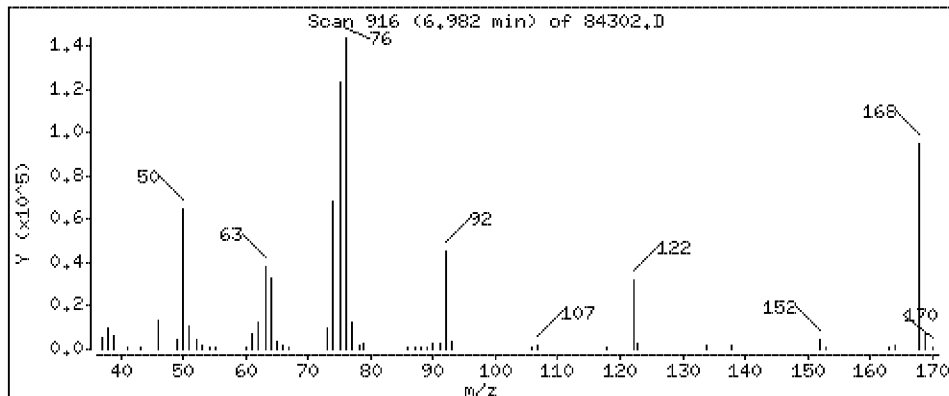
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

66 1,3-Dinitrobenzene

Concentration: 1540 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

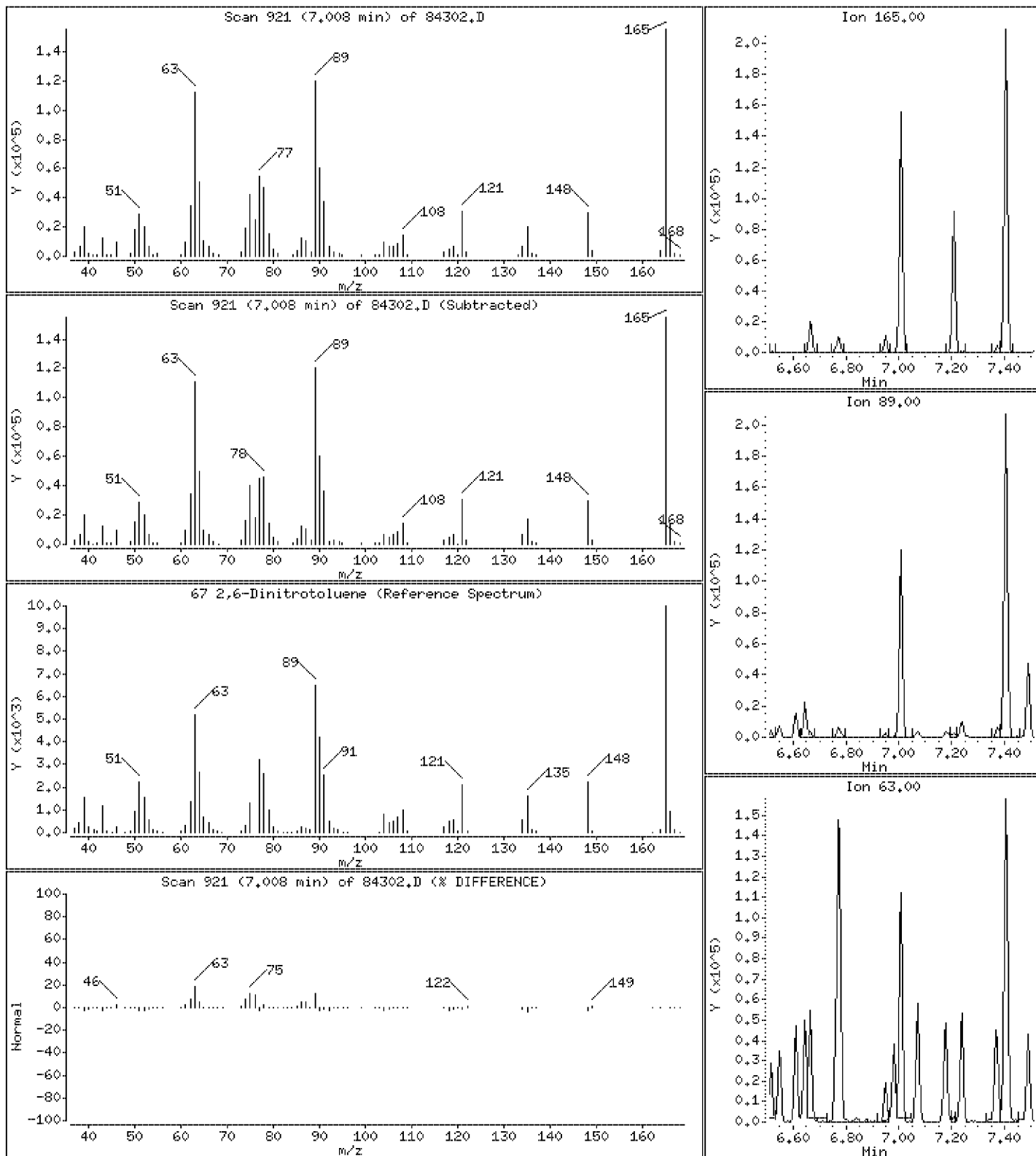
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

67 2,6-Dinitrotoluene

Concentration: 1460 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

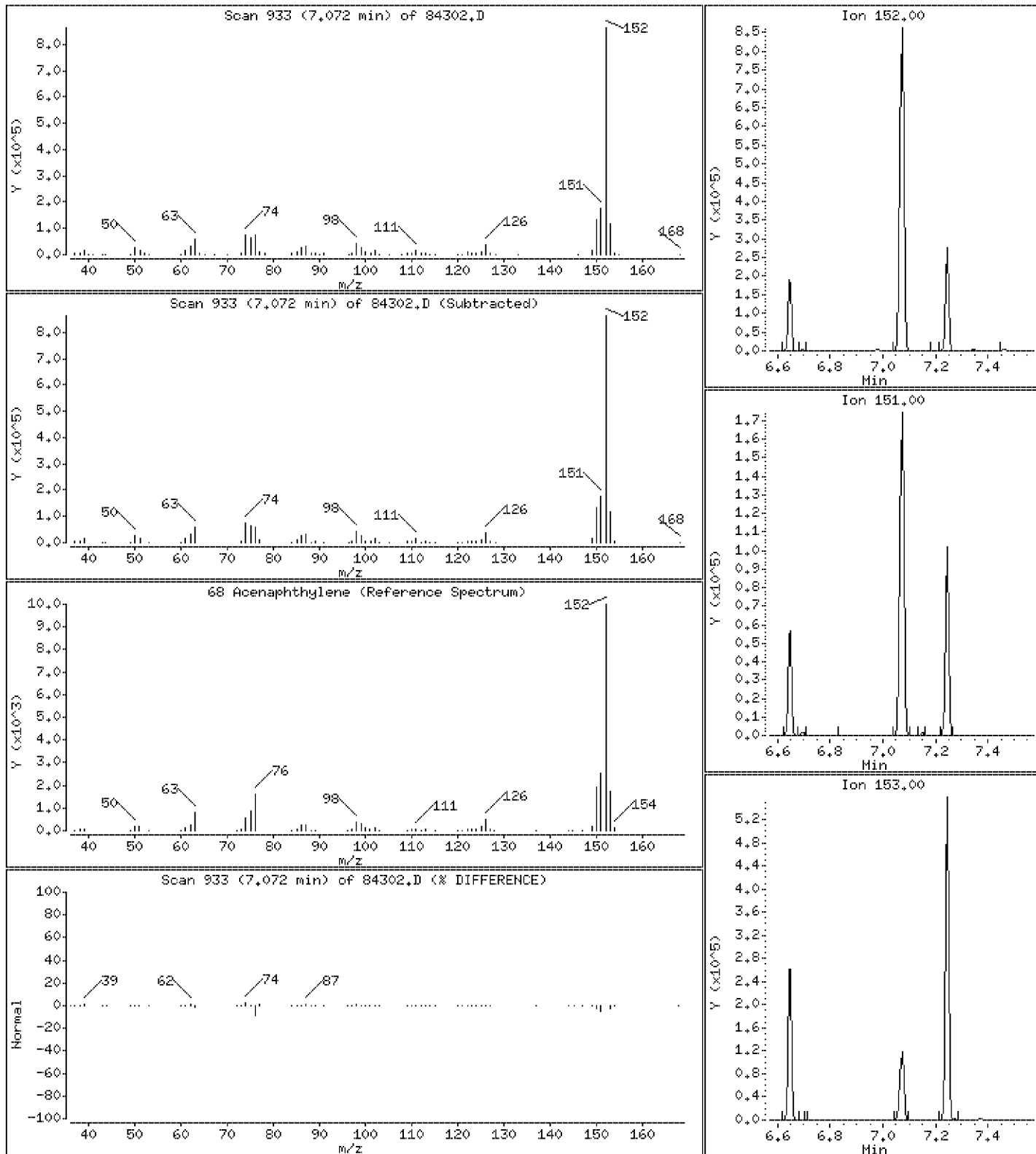
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

68 Acenaphthylene

Concentration: 1530 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

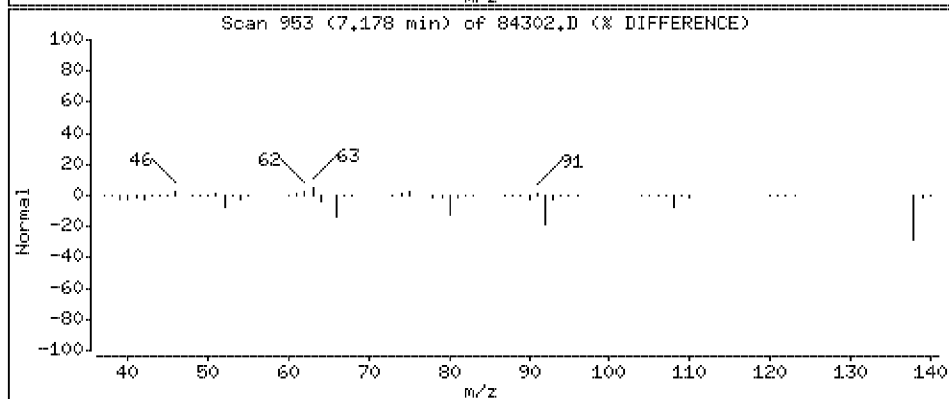
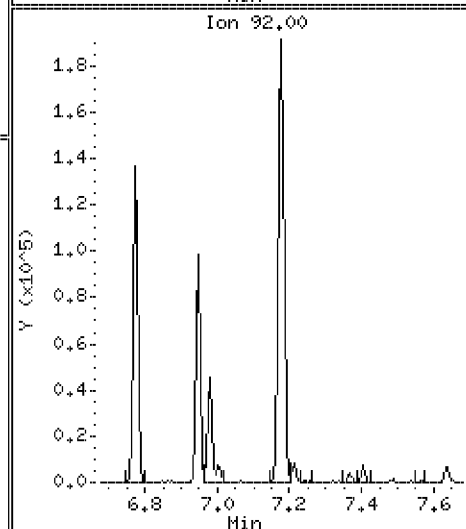
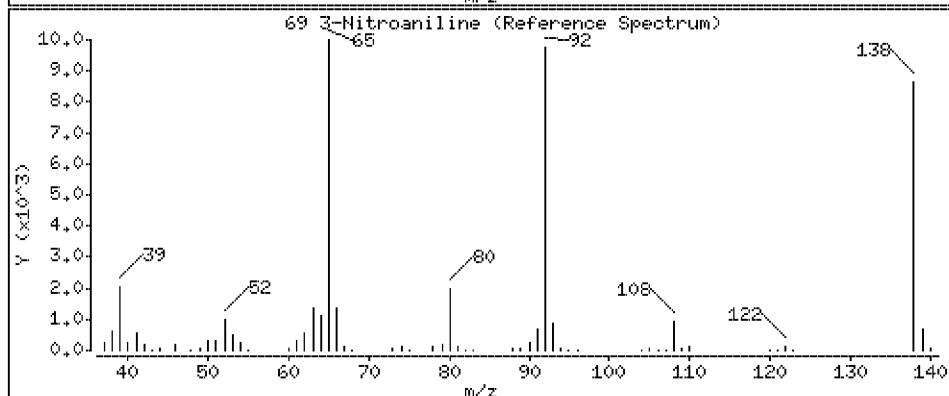
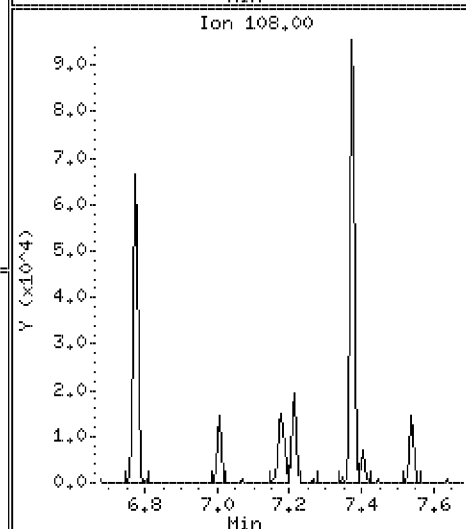
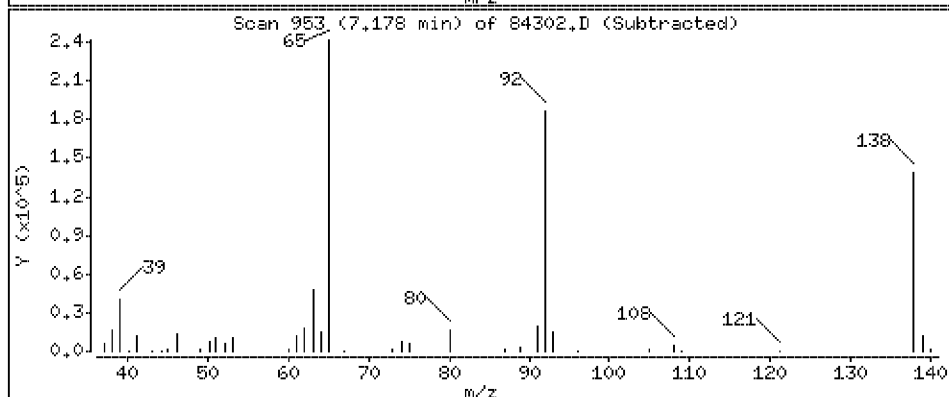
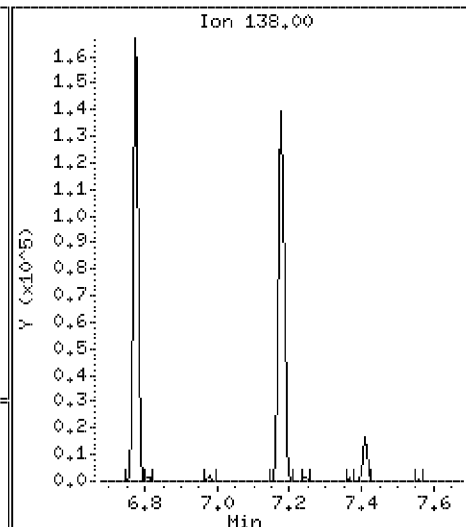
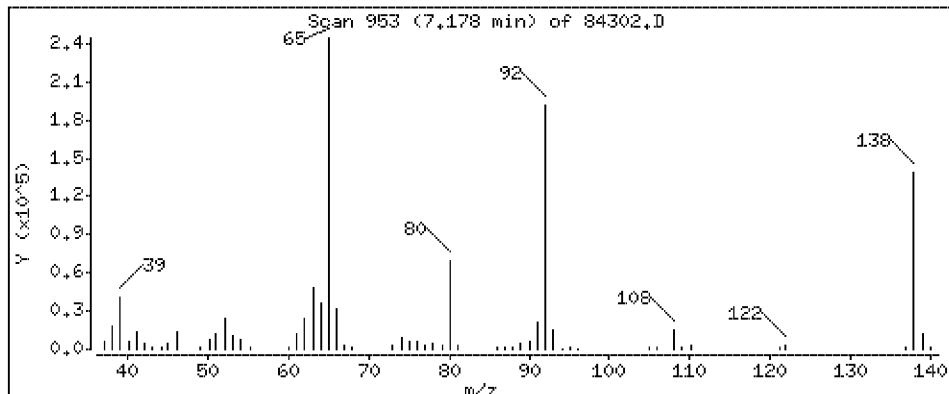
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

69 3-Nitroaniline

Concentration: 1660 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

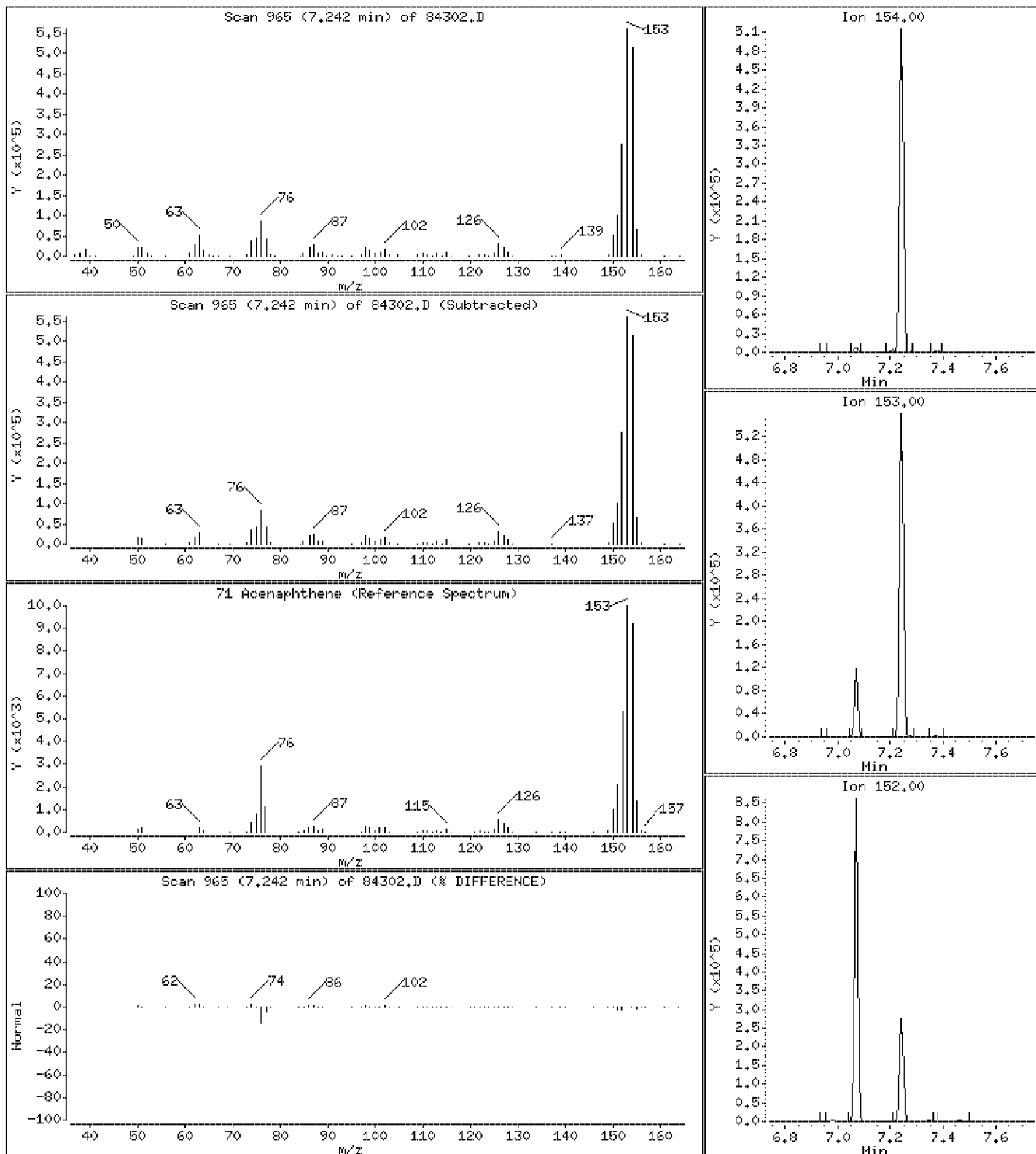
Operator: MJ

Column phase: HPMS-5

Column diameter: 0.25

71 Acenaphthene

Concentration: 1450 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

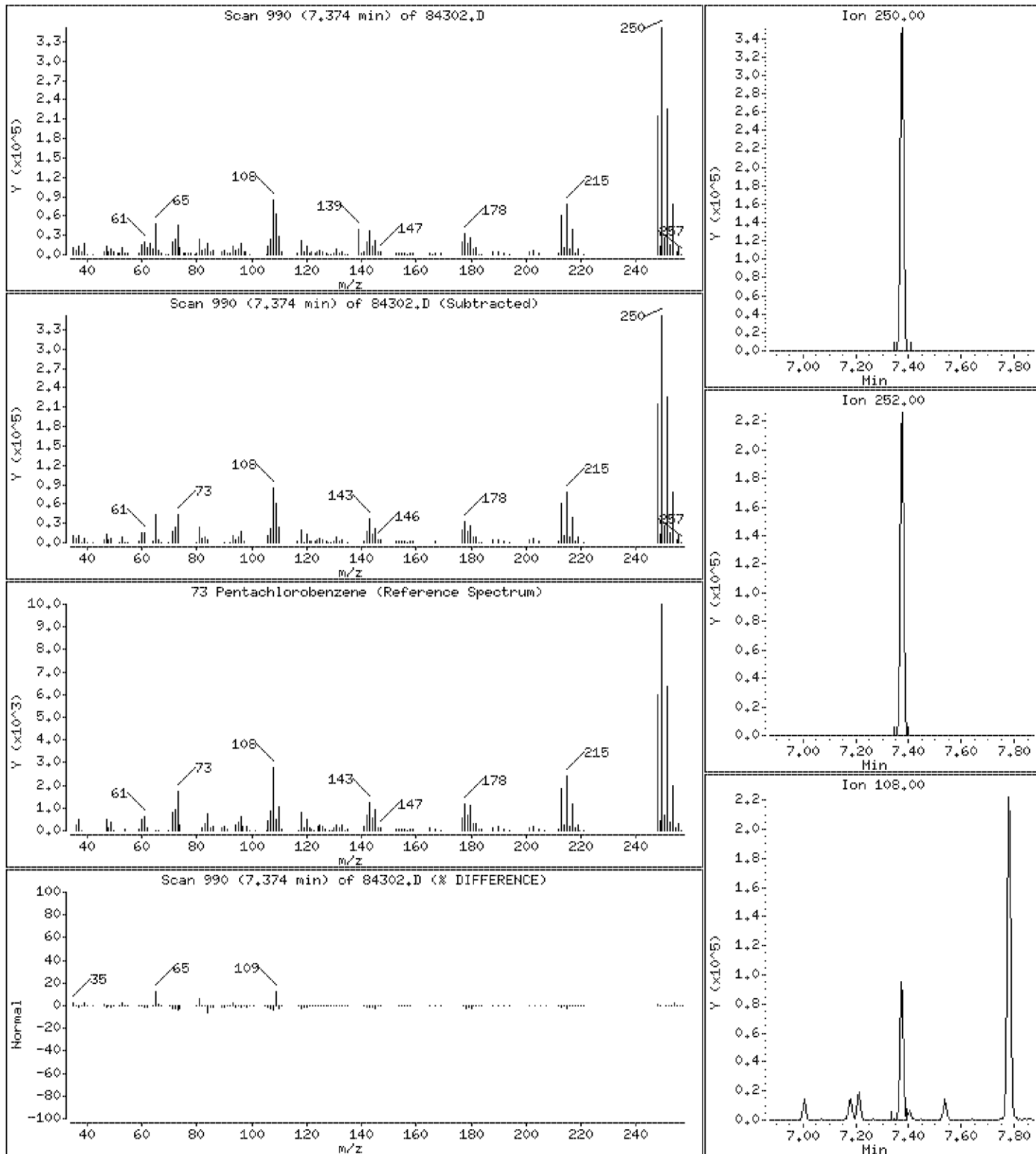
Operator: MJ

Column phase: HPMS-5

Column diameter: 0.25

73 Pentachlorobenzene

Concentration: 1560 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

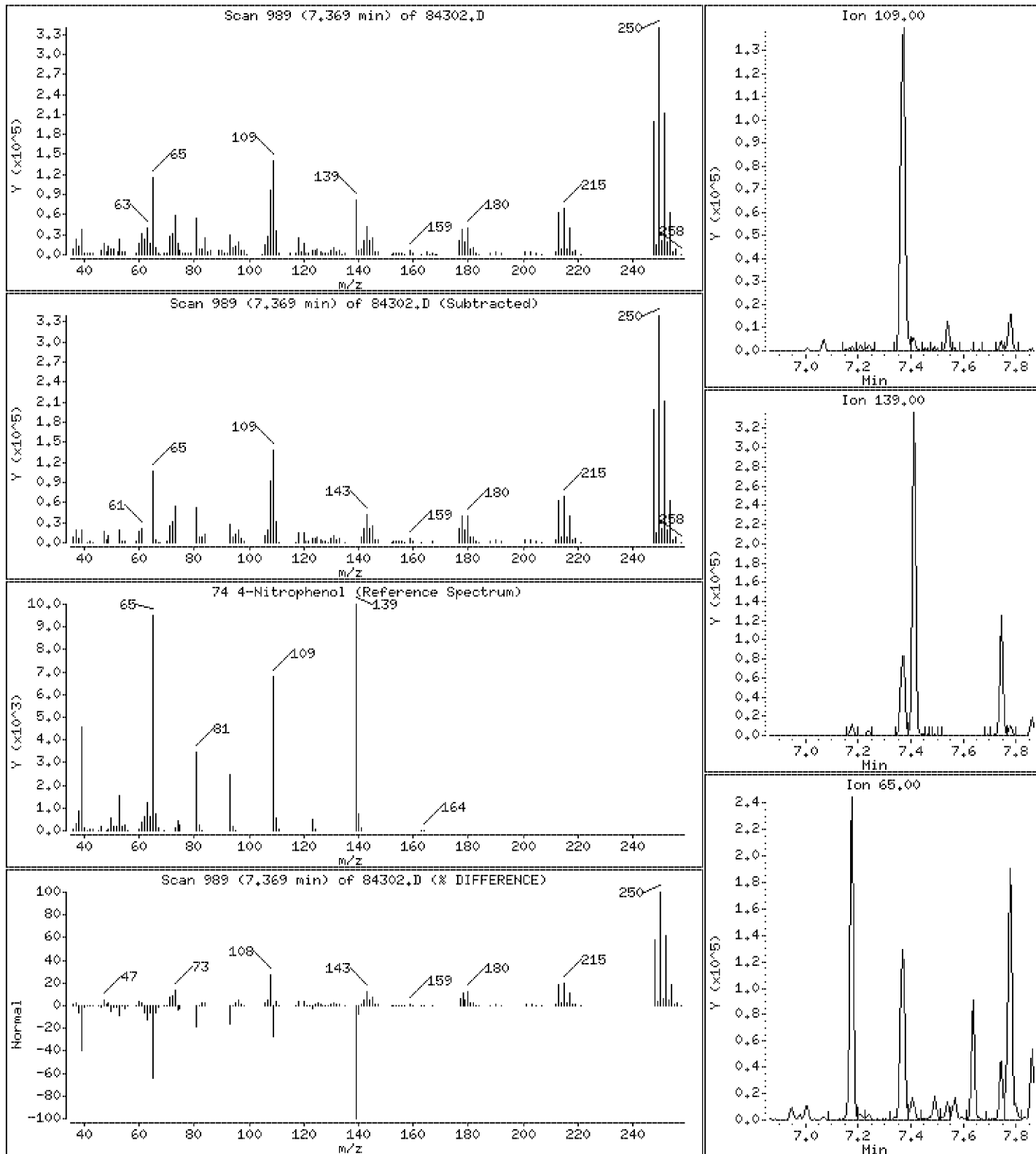
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

74 4-Nitrophenol

Concentration: 1710 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

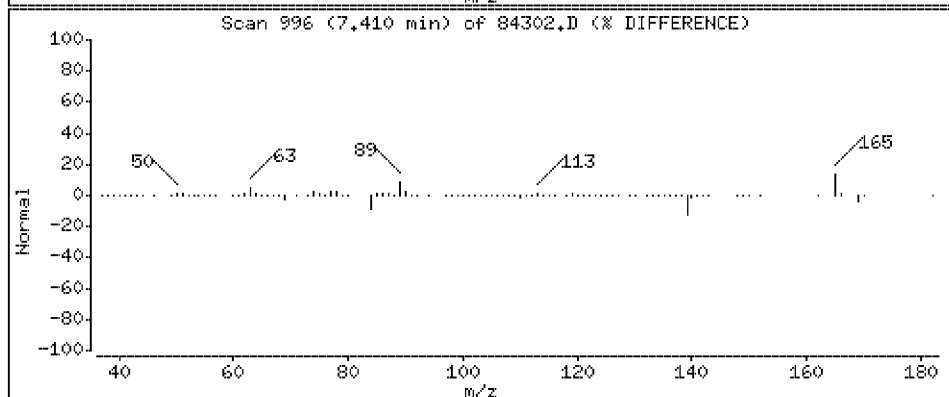
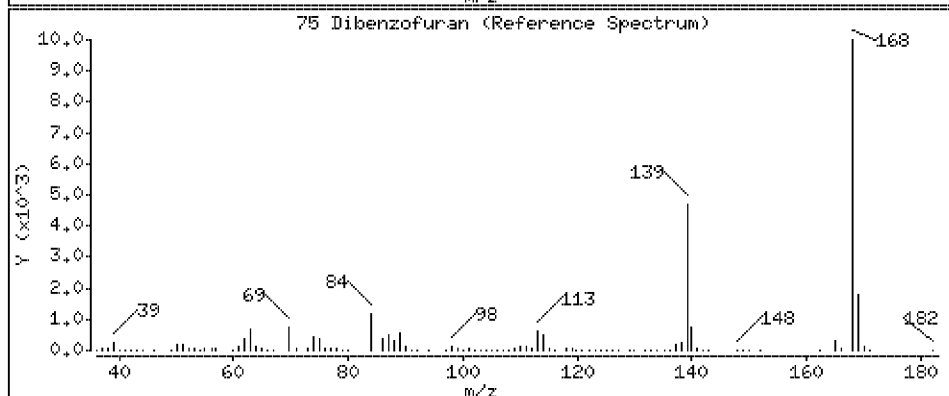
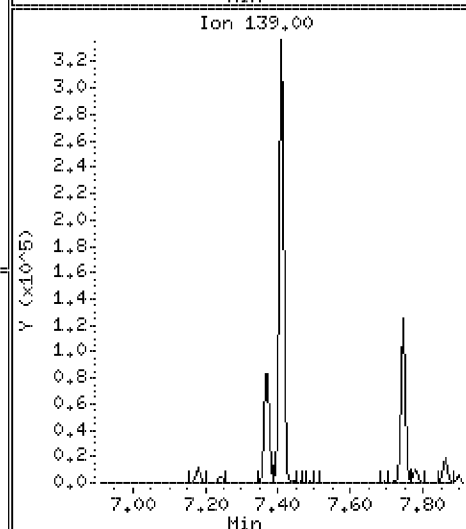
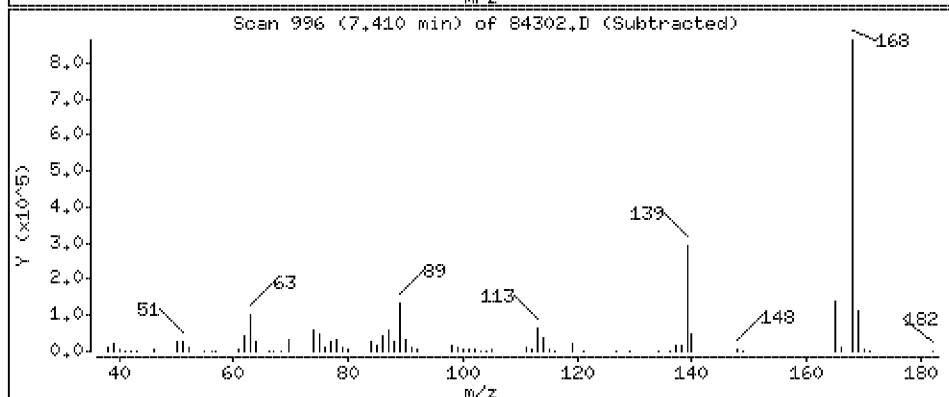
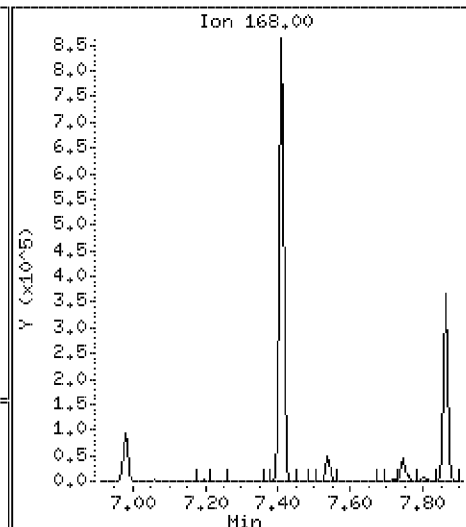
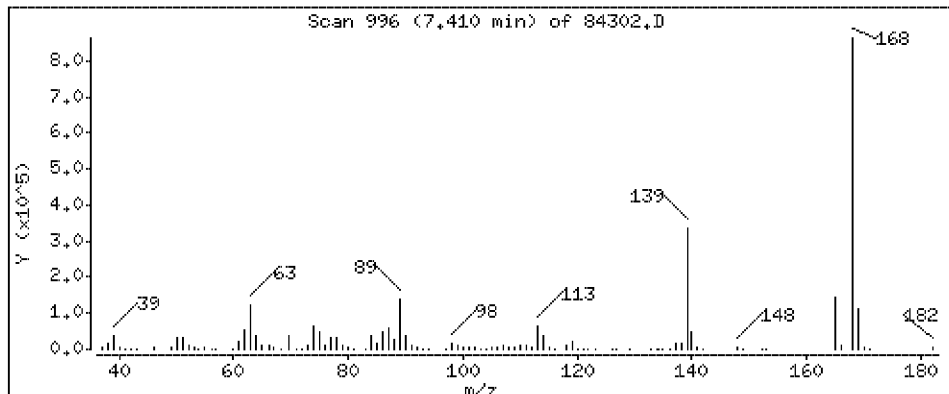
Operator: MJ

Column phase: HPMS-5

Column diameter: 0.25

75 Dibenzofuran

Concentration: 1570 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

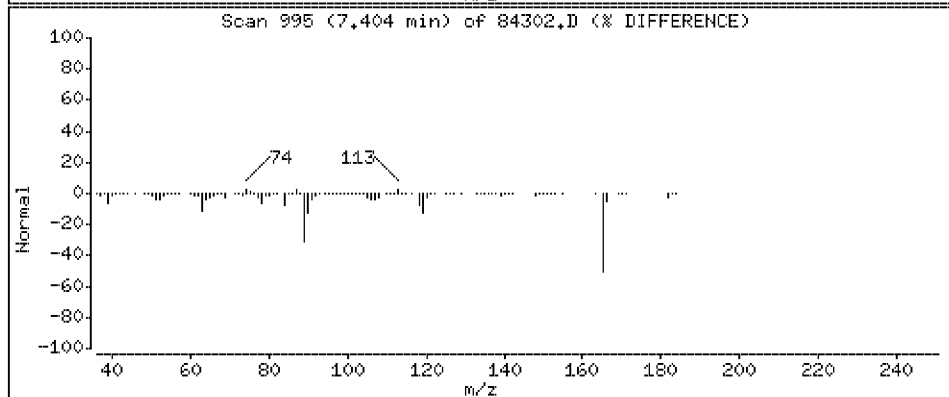
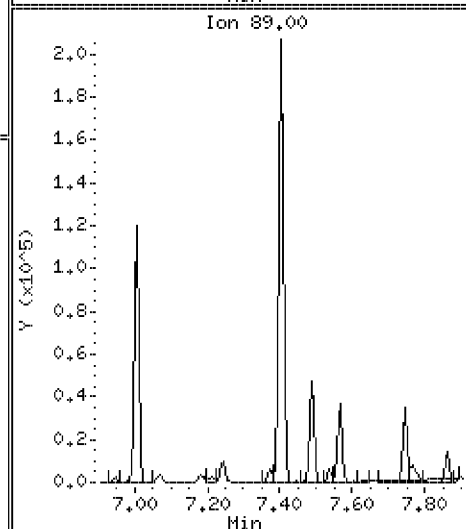
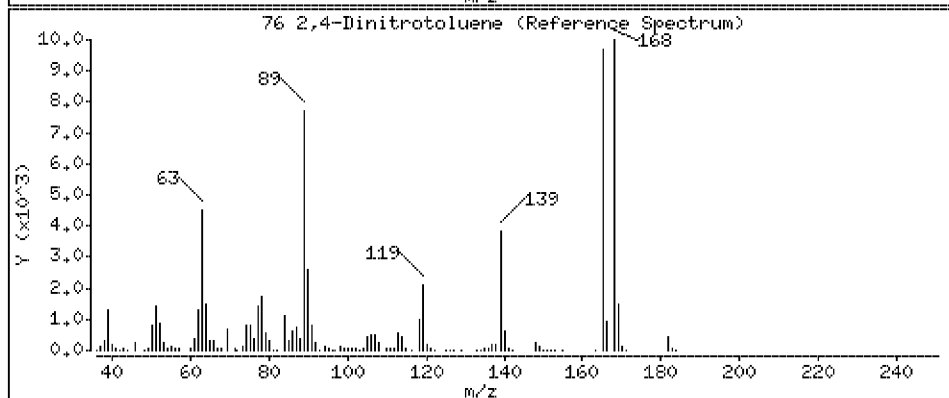
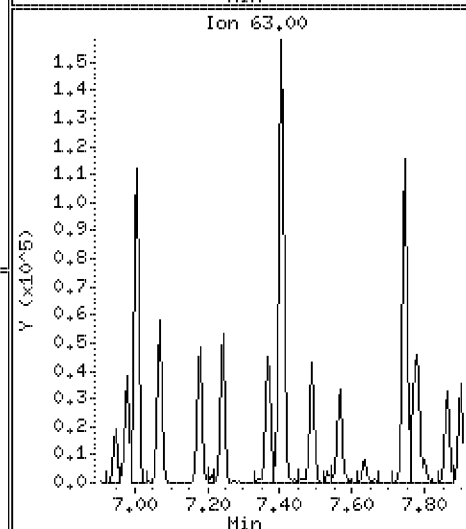
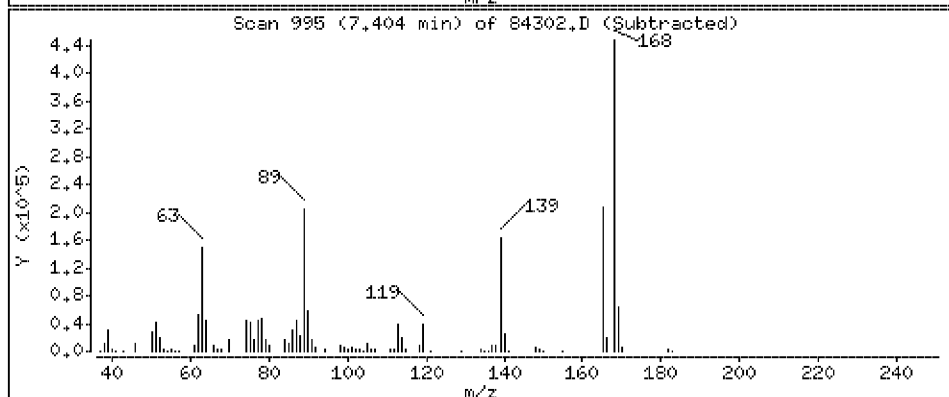
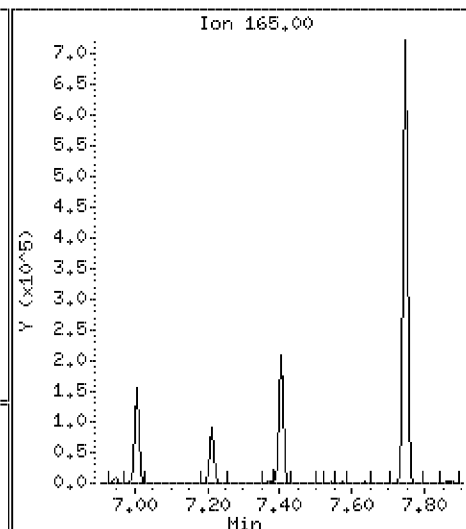
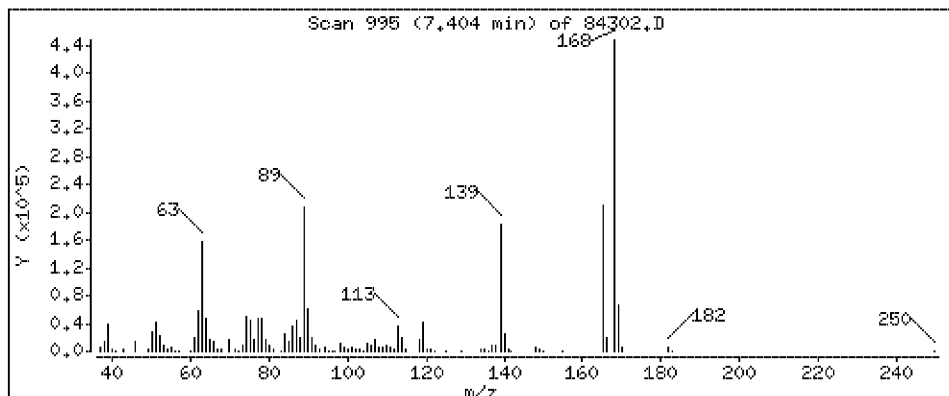
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

76 2,4-Dinitrotoluene

Concentration: 1490 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

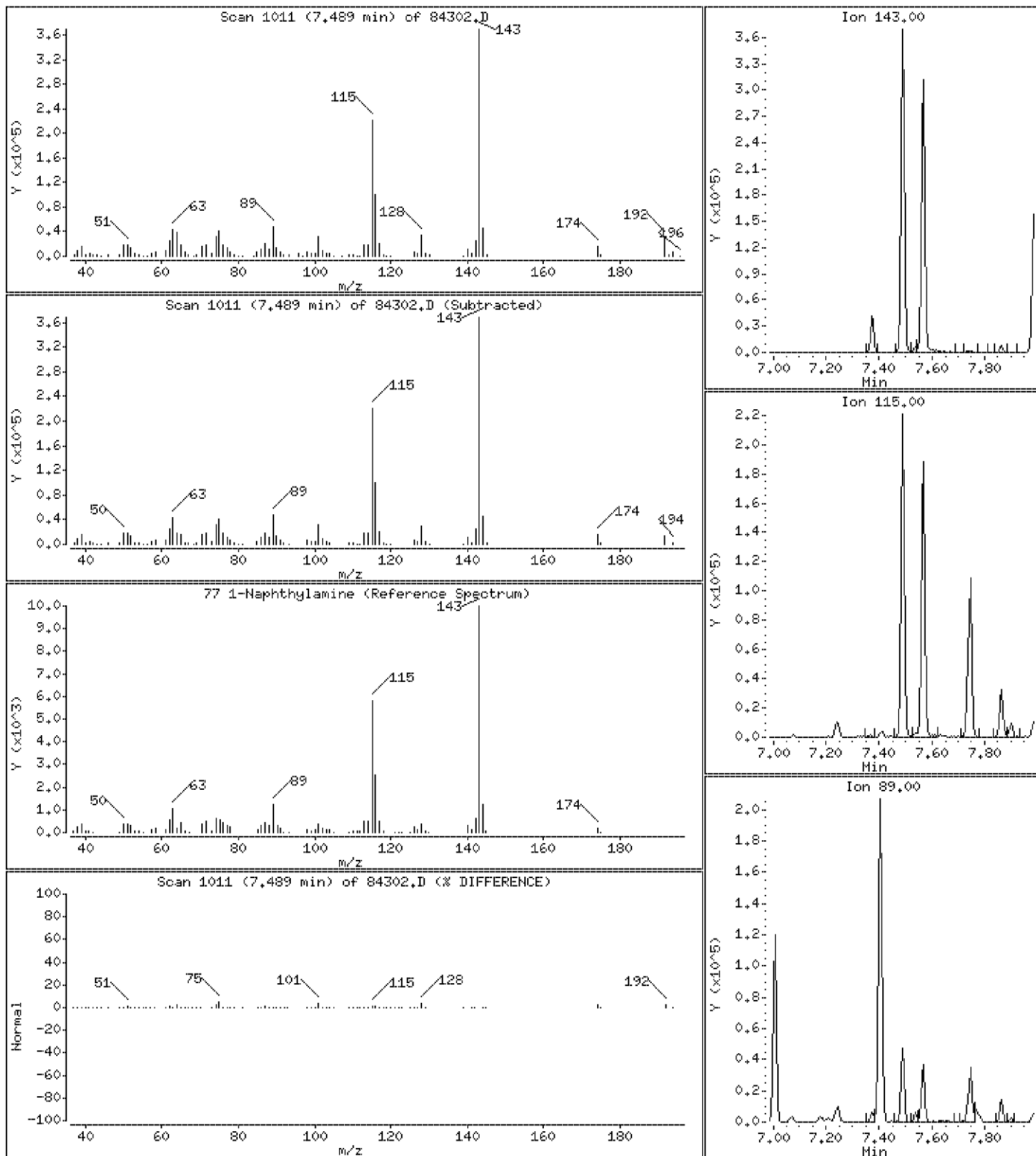
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

77 1-Naphthylamine

Concentration: 1670 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

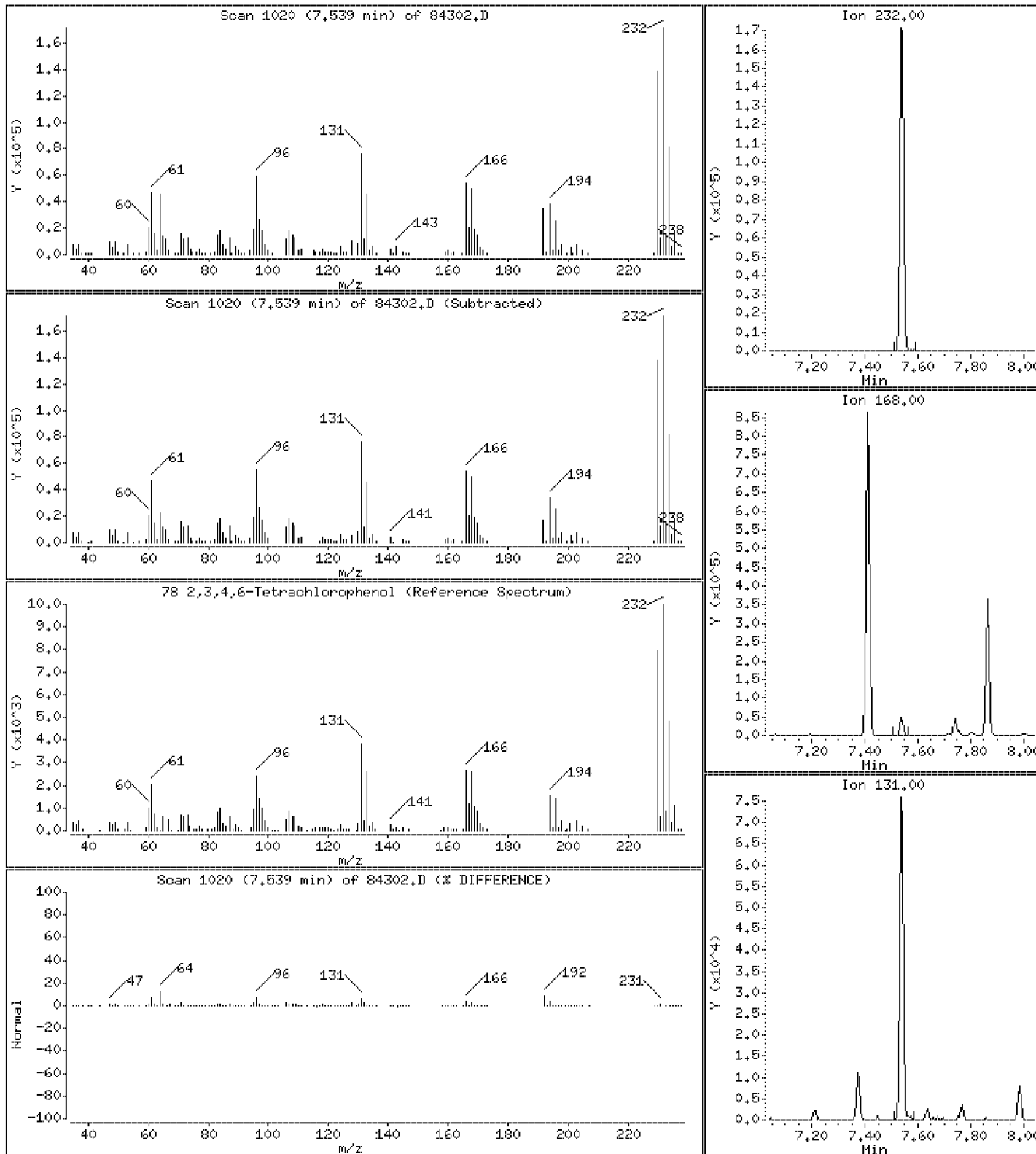
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

78 2,3,4,6-Tetrachlorophenol

Concentration: 1480 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

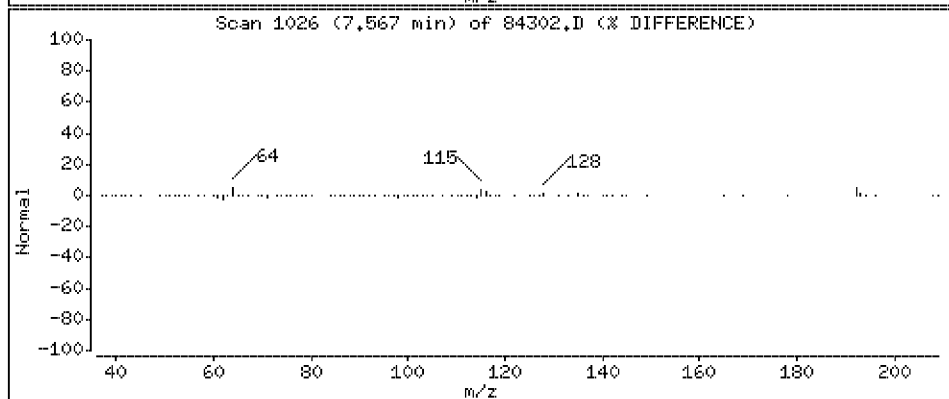
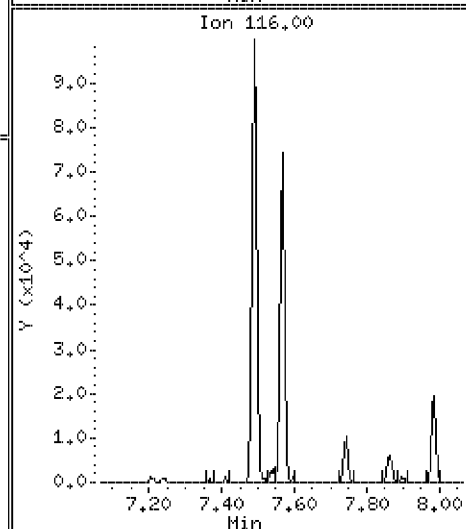
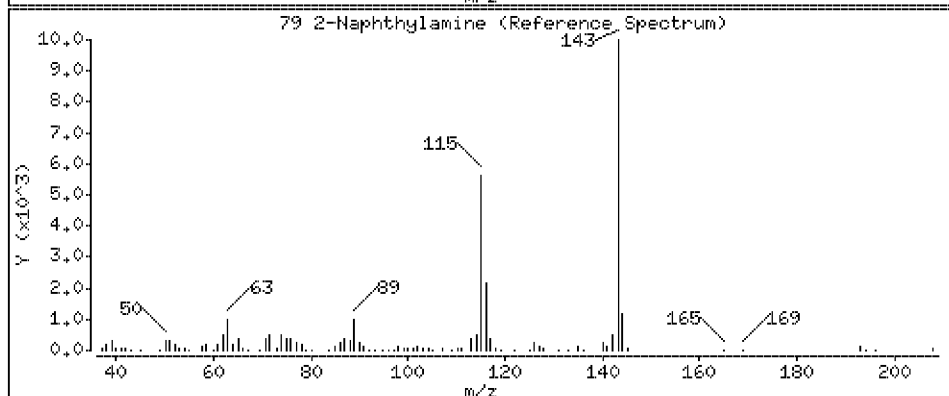
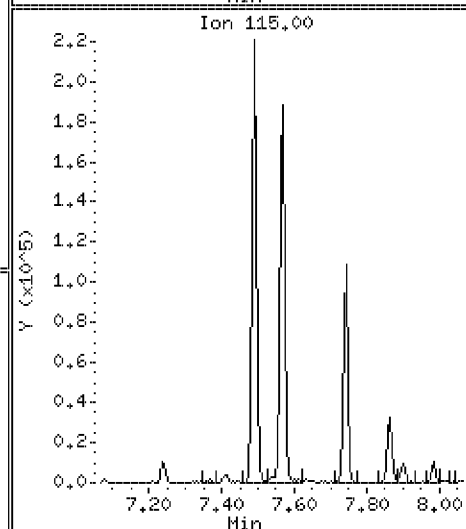
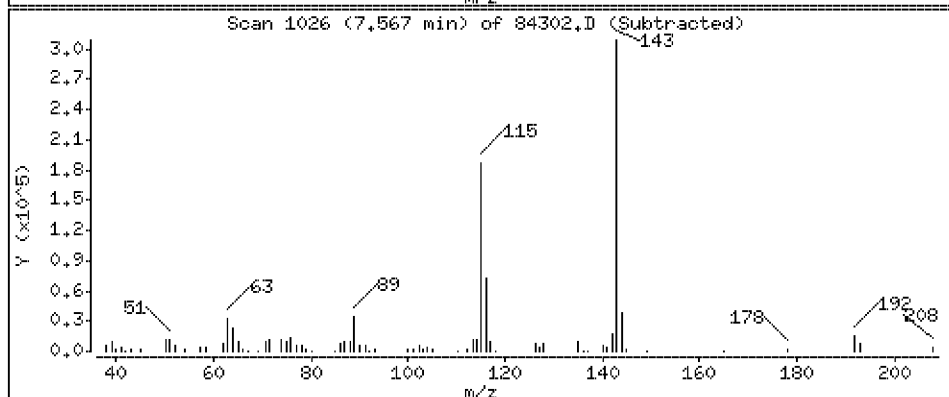
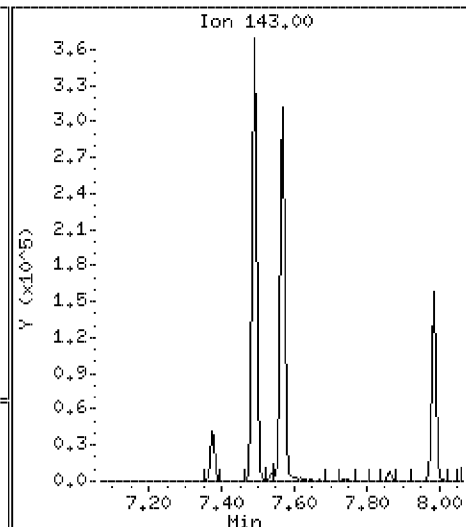
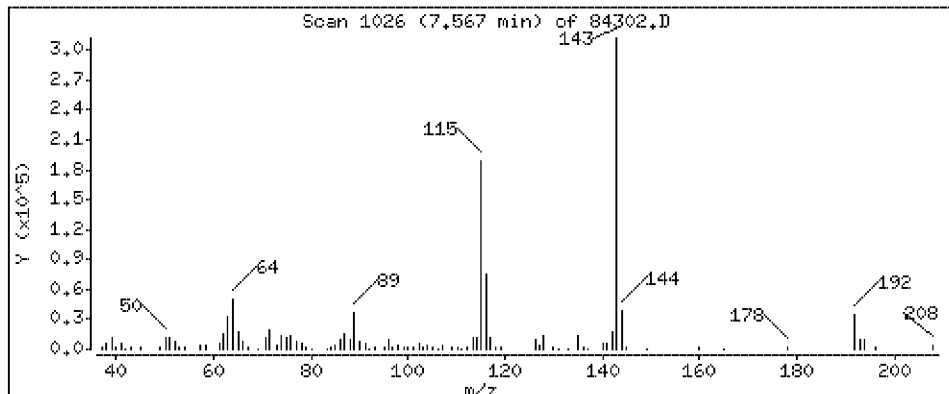
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

79 2-Naphthylamine

Concentration: 1130 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

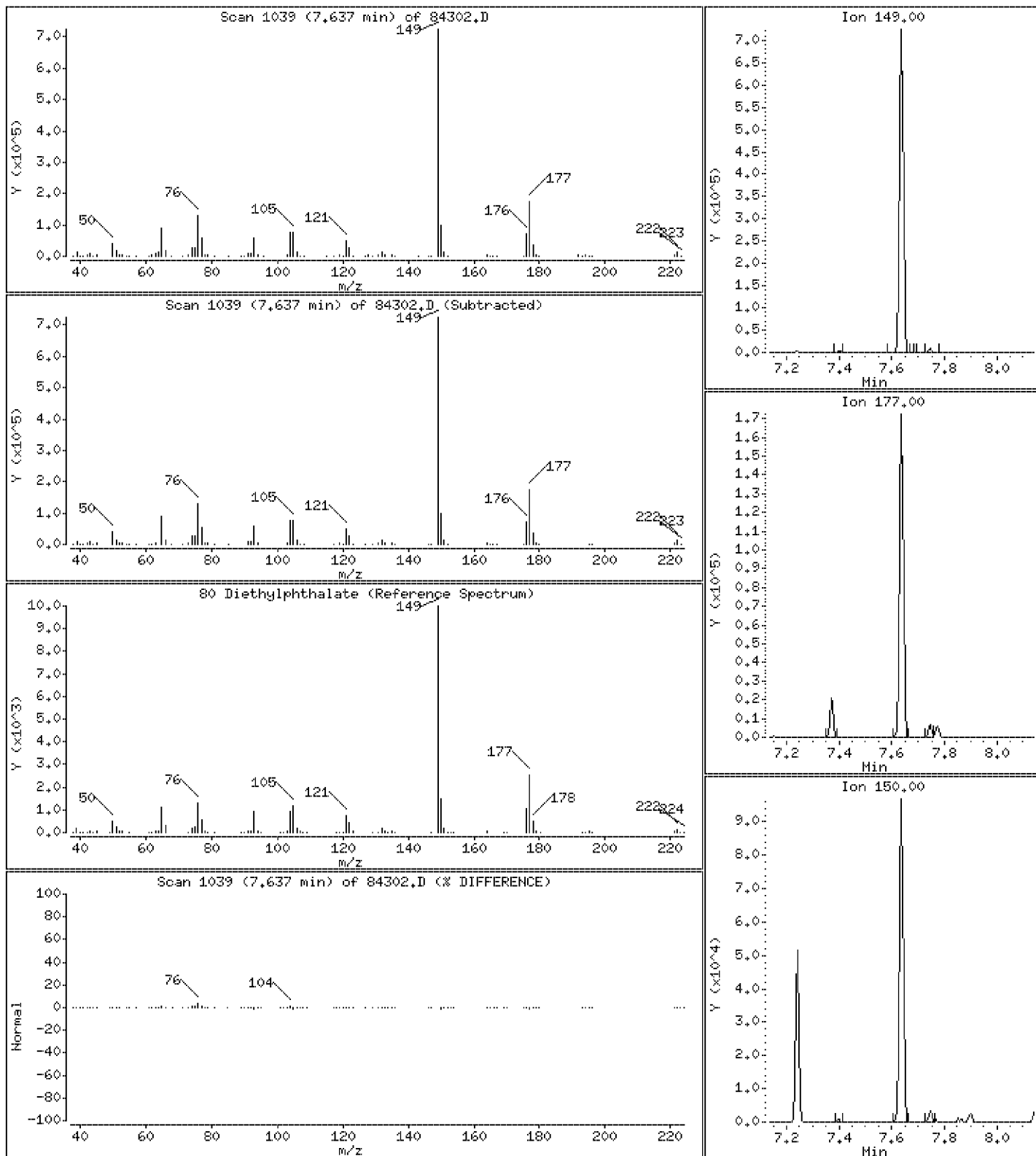
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

80 Diethylphthalate

Concentration: 1680 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

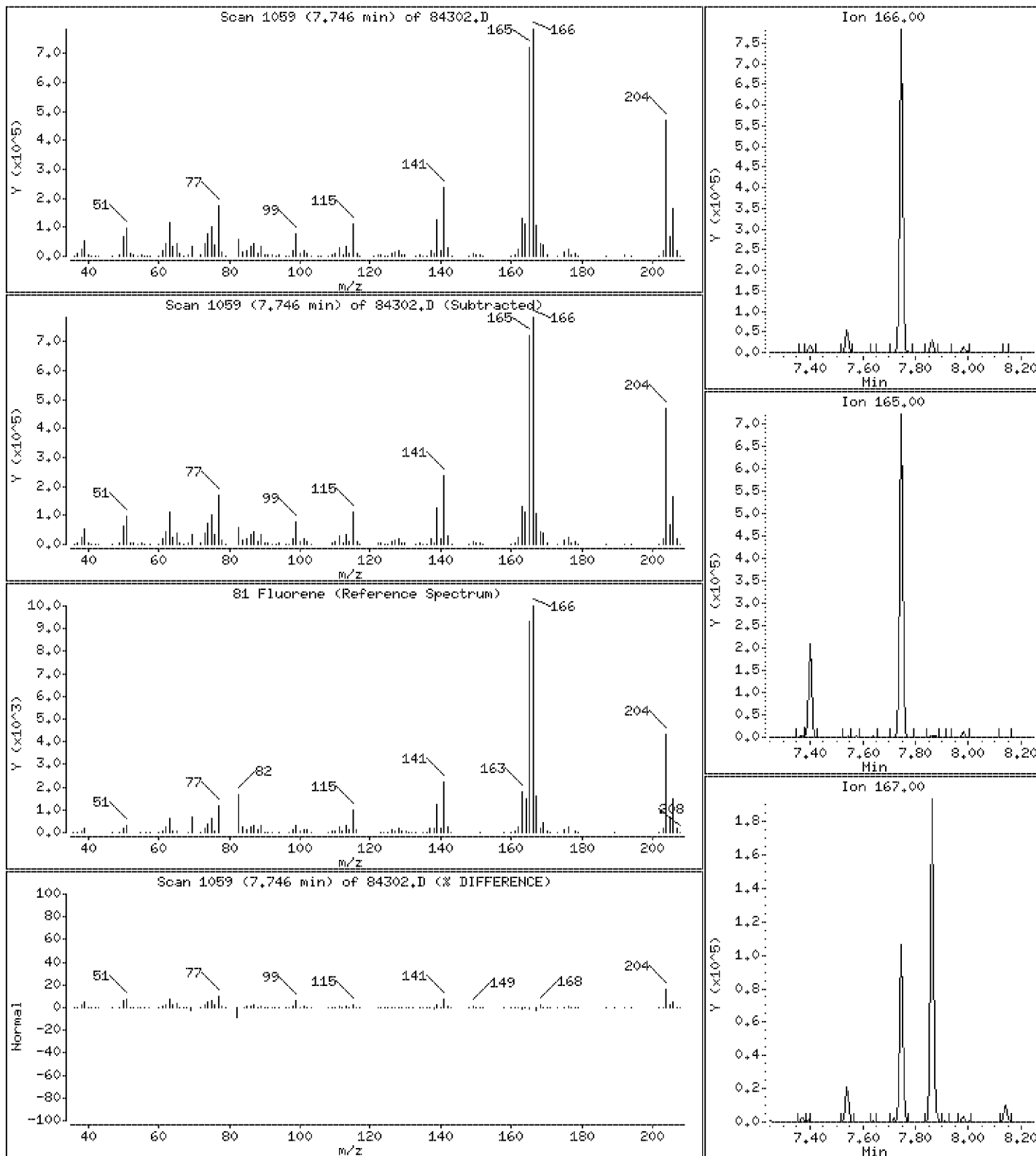
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

81 Fluorene

Concentration: 1550 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

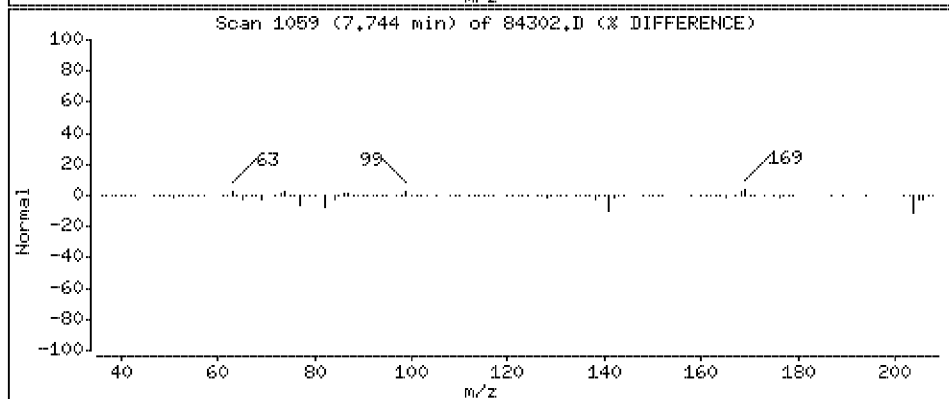
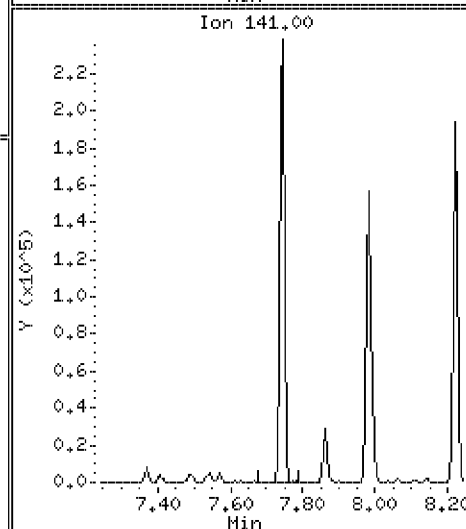
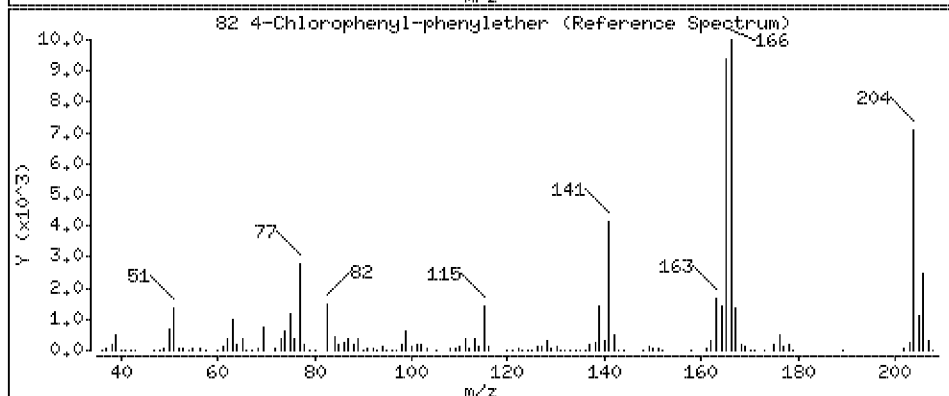
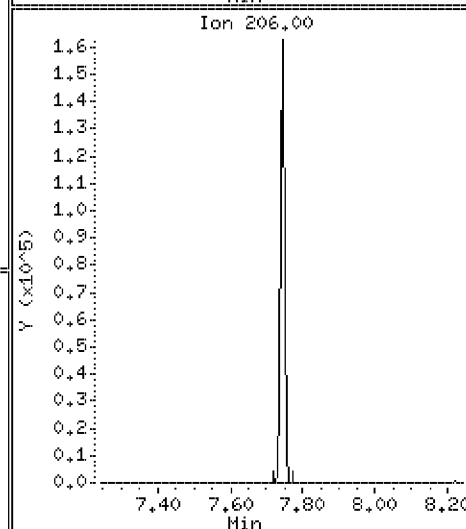
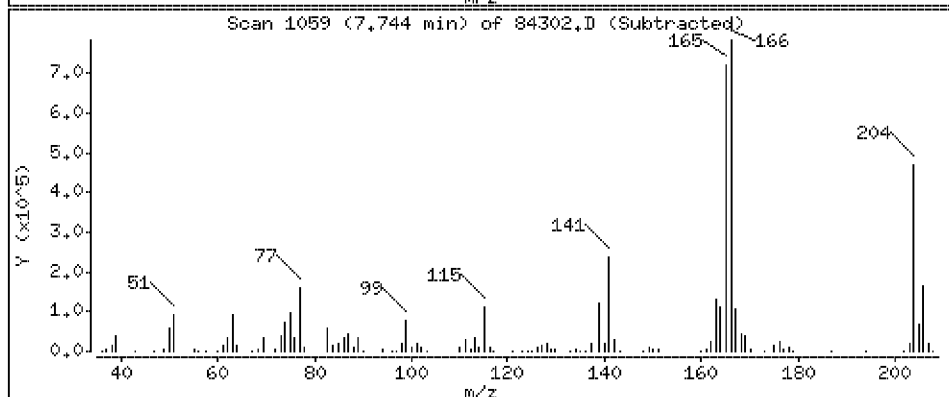
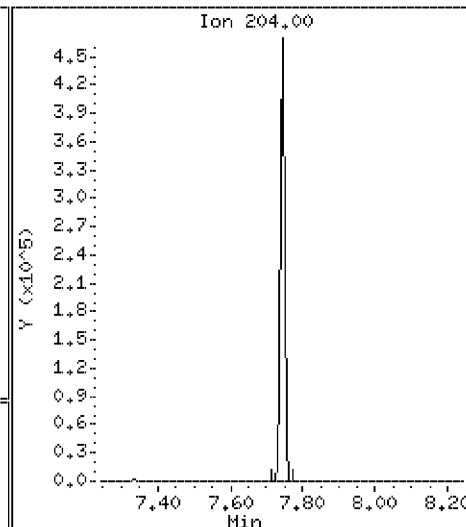
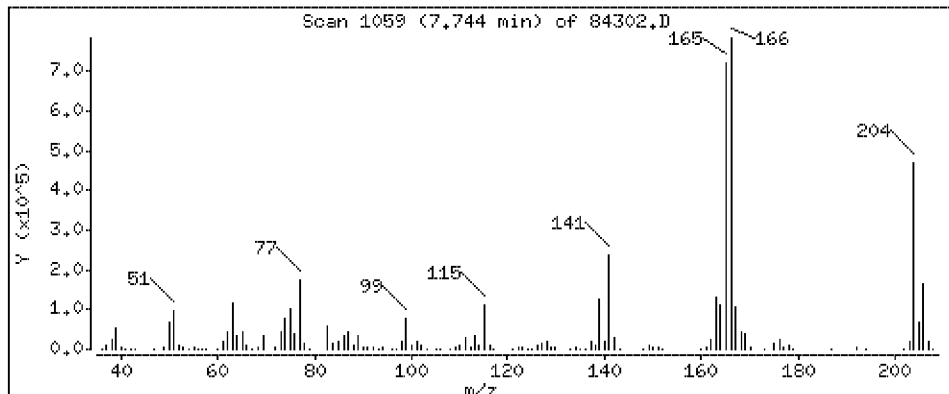
Operator: MJ

Column phase: HPMS-5

Column diameter: 0.25

82 4-Chlorophenyl-phenylether

Concentration: 1530 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

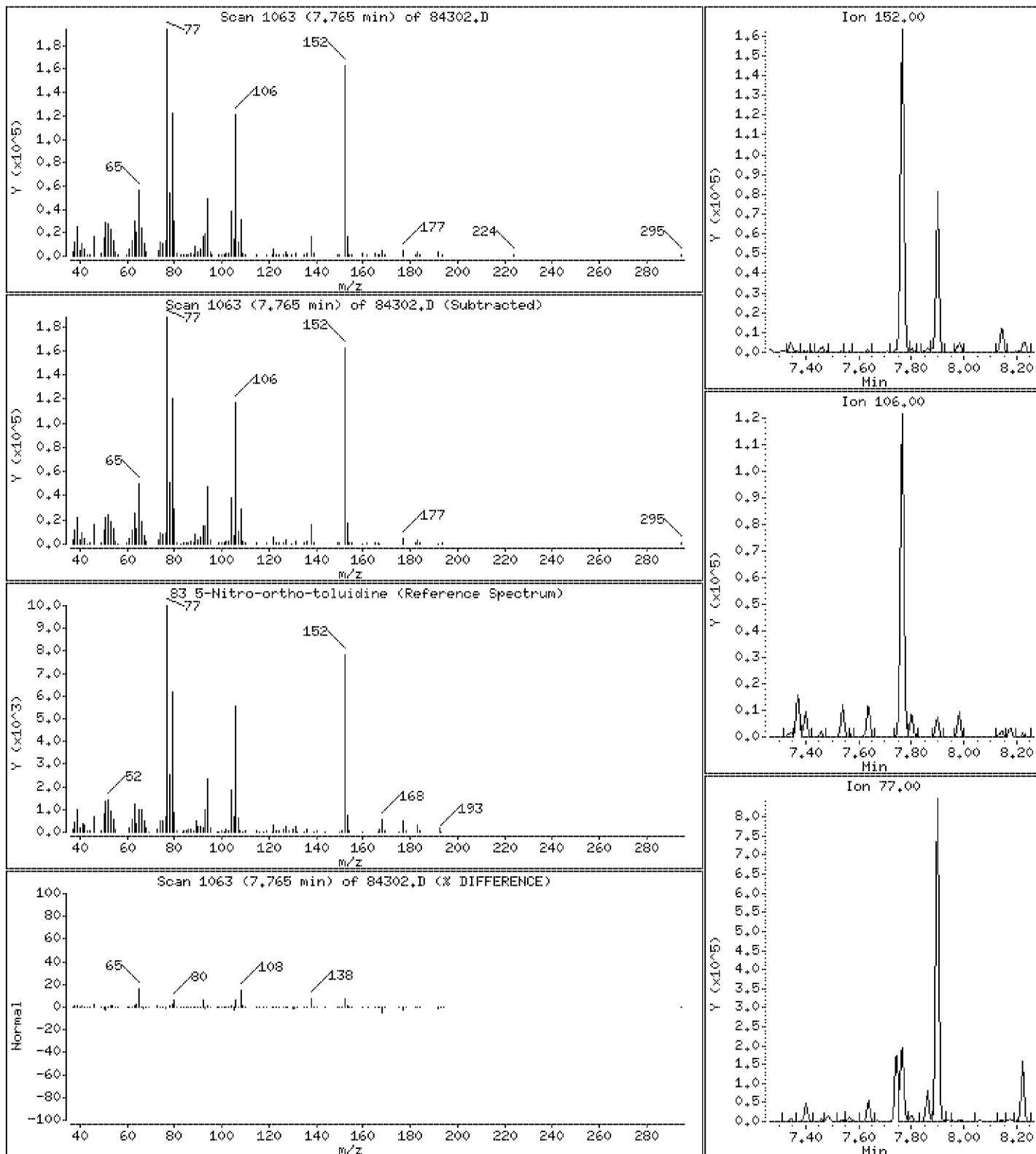
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

83 5-Nitro-ortho-toluidine

Concentration: 1510 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

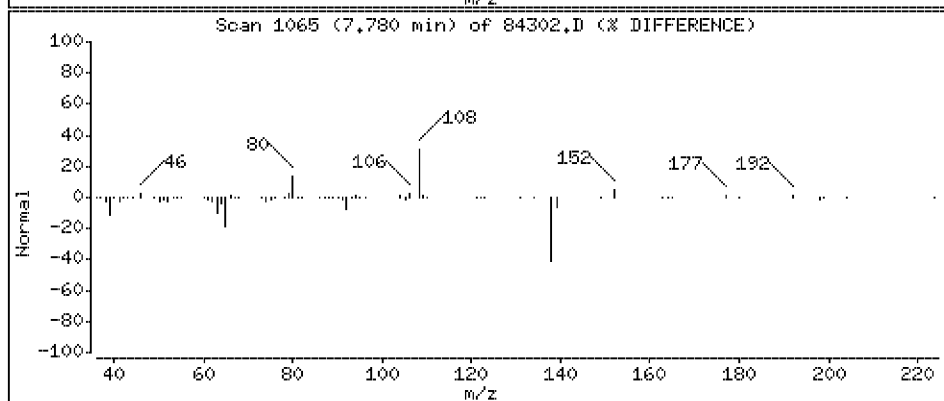
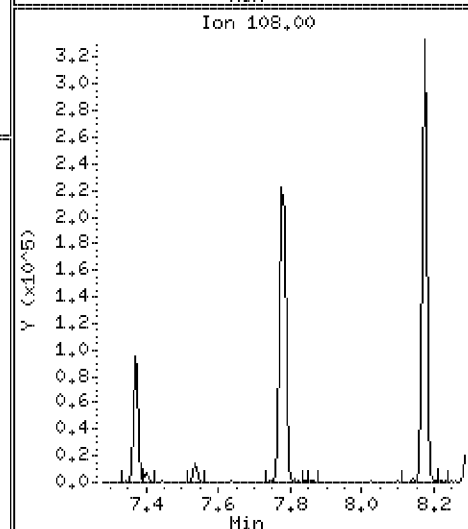
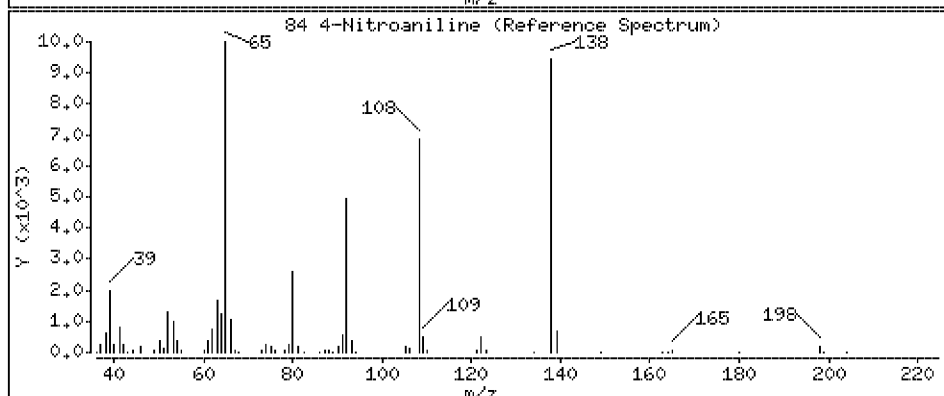
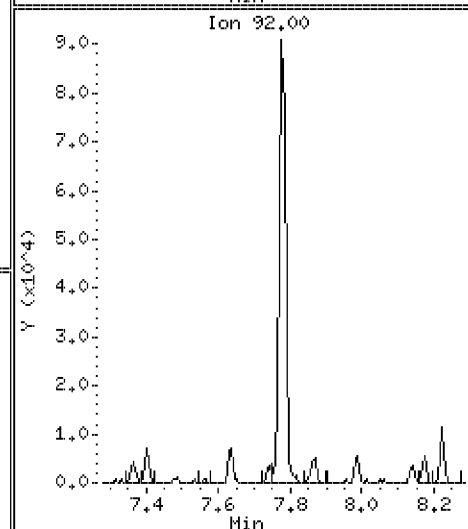
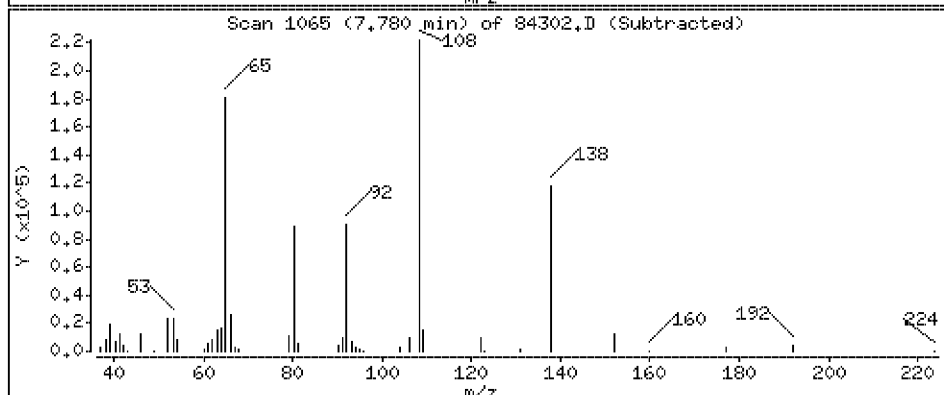
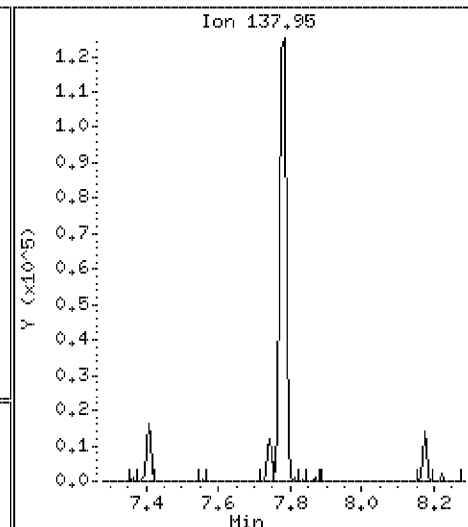
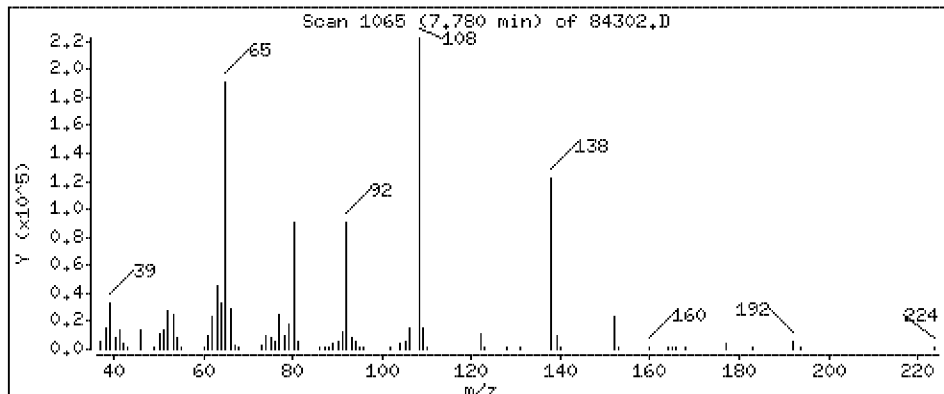
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

84 4-Nitroaniline

Concentration: 1890 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

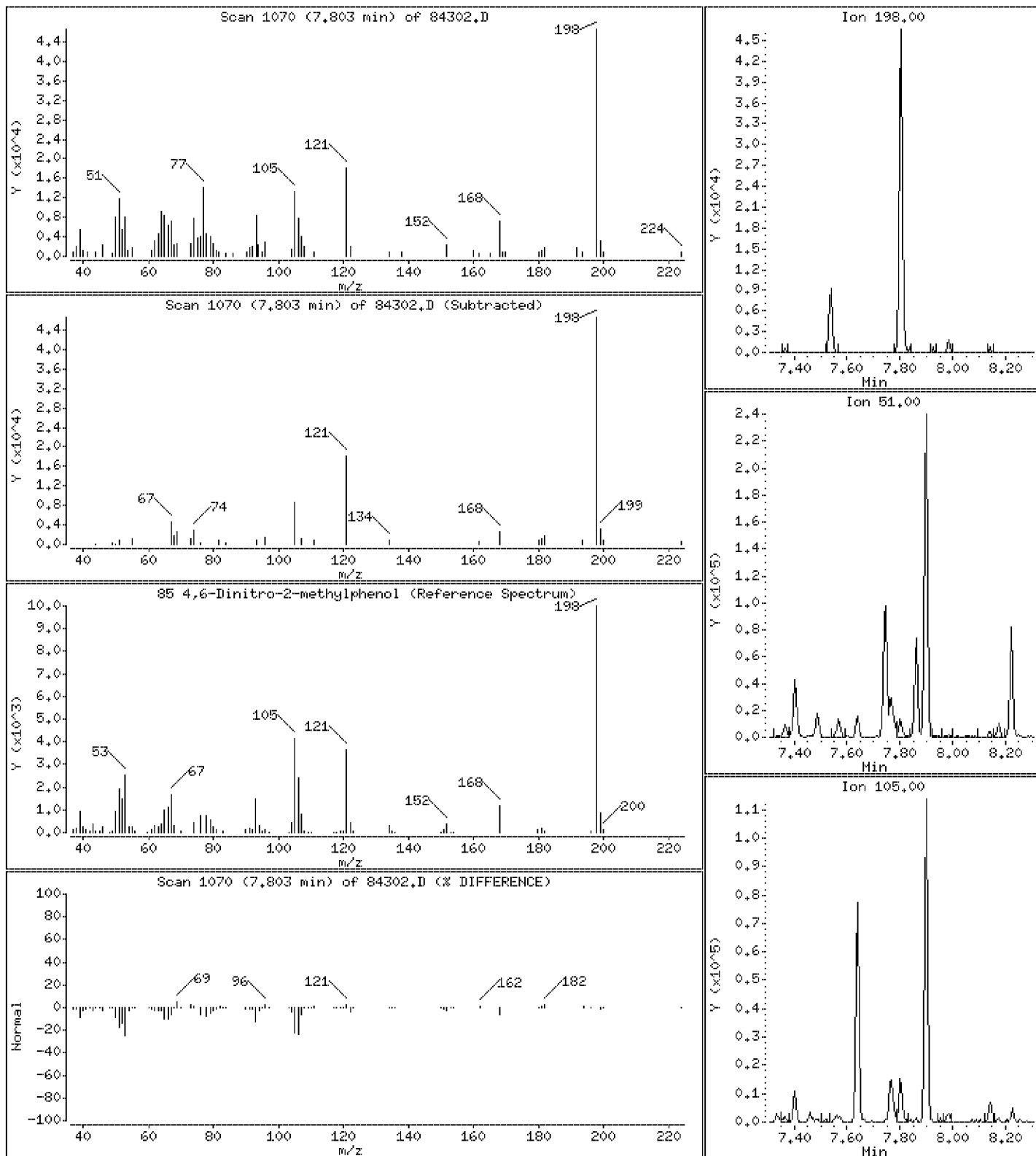
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

85 4,6-Dinitro-2-methylphenol

Concentration: 560 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

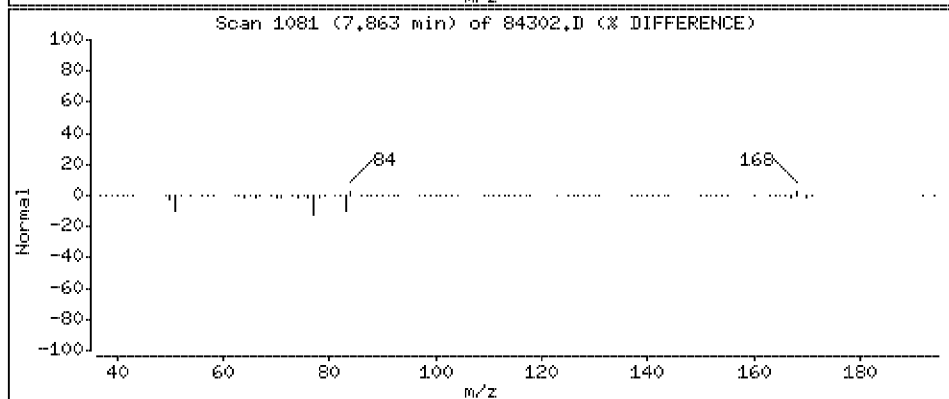
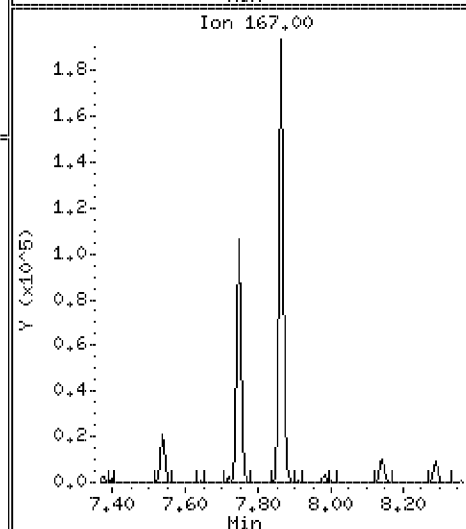
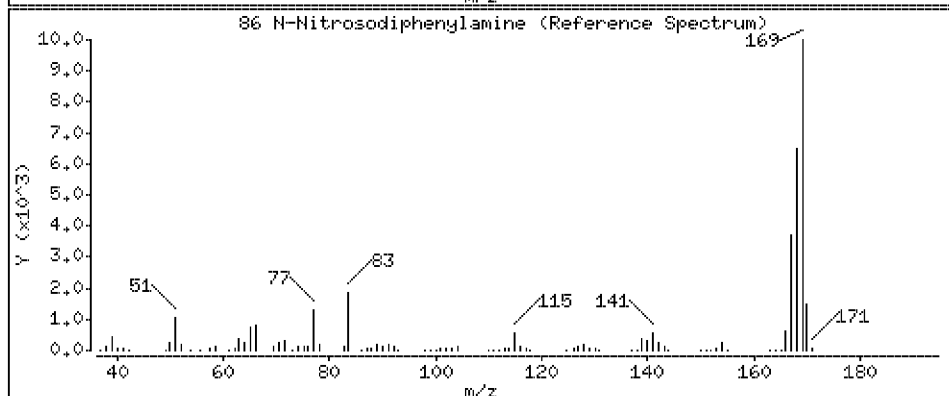
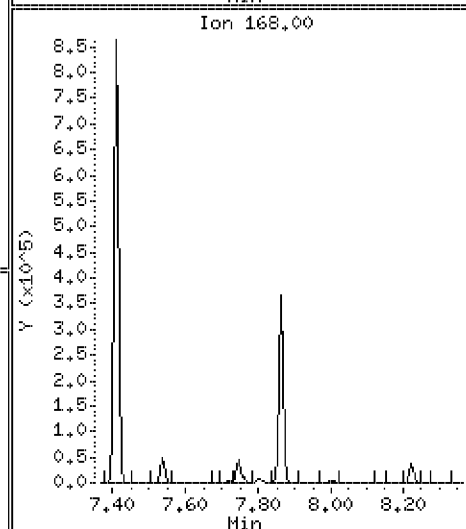
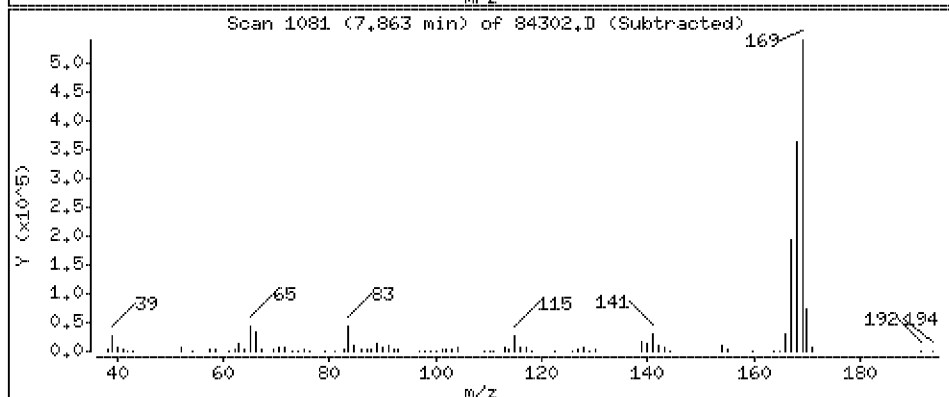
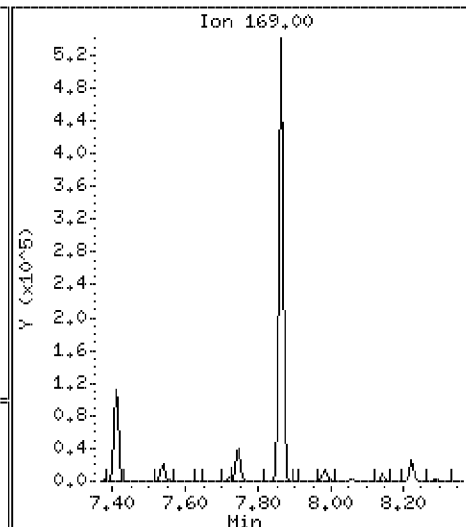
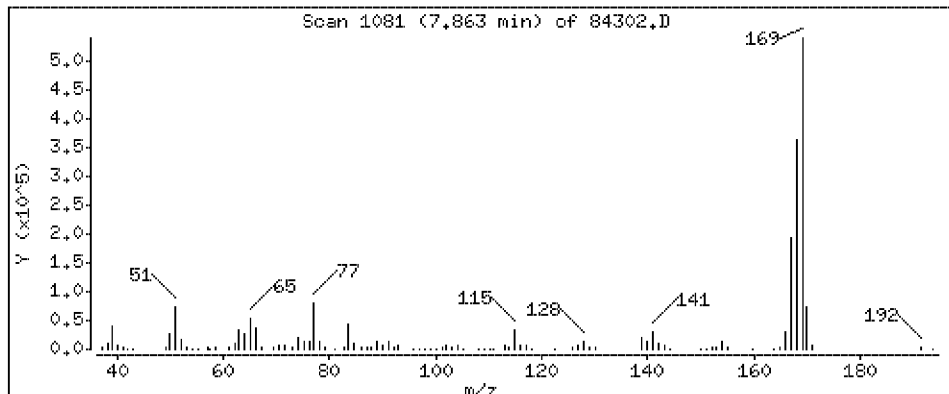
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

86 N-Nitrosodiphenylamine

Concentration: 1490 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

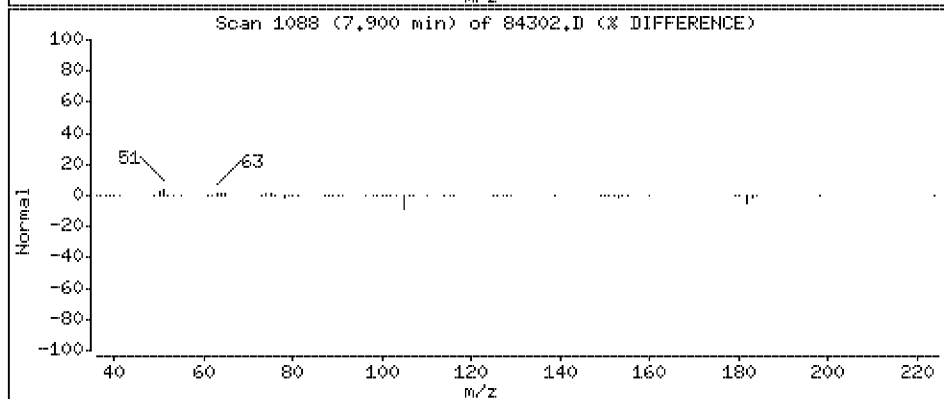
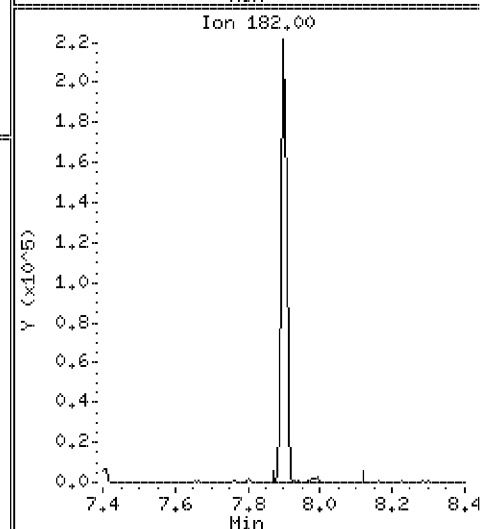
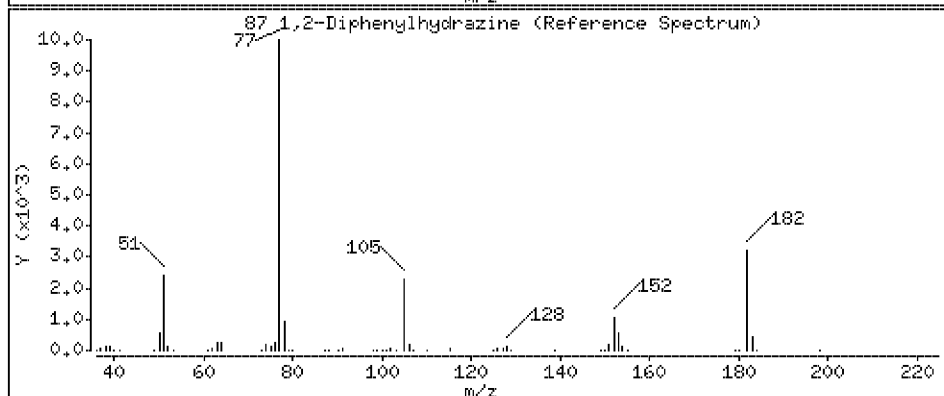
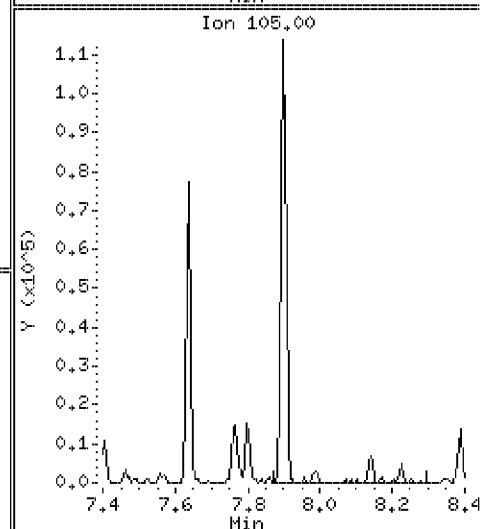
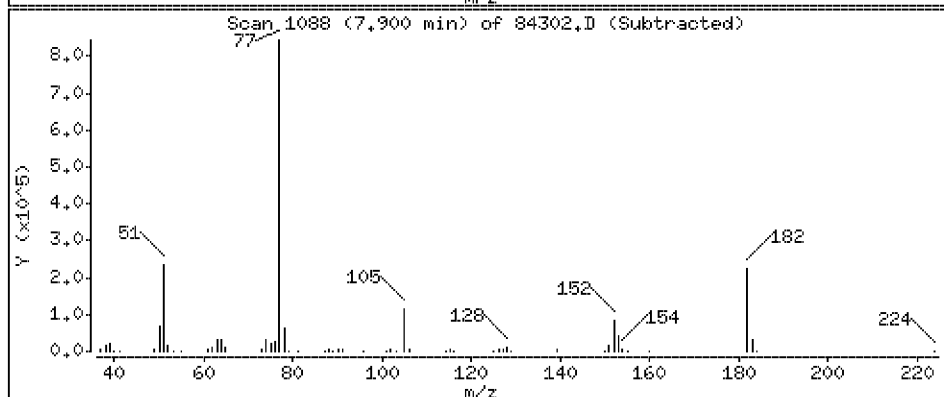
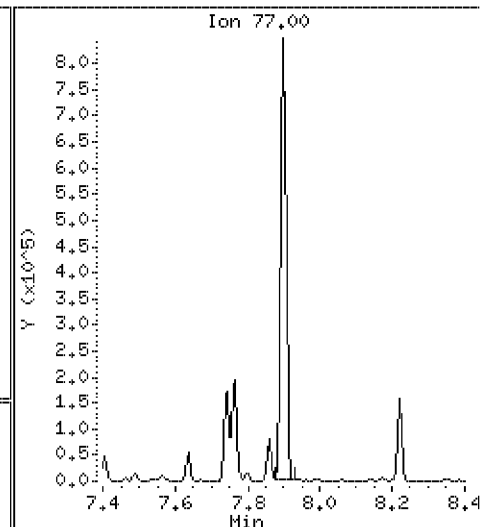
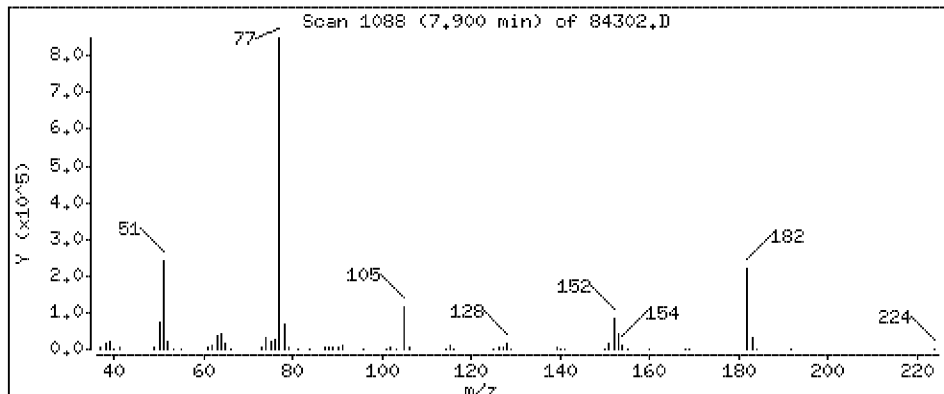
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

87 1,2-Diphenylhydrazine

Concentration: 1750 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

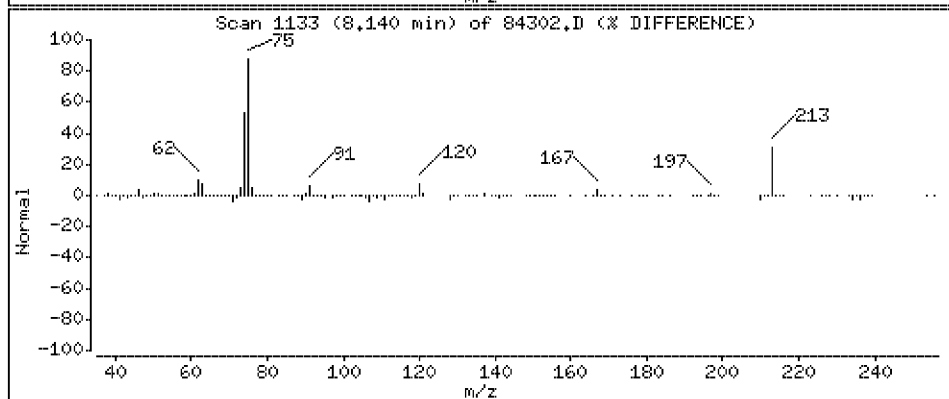
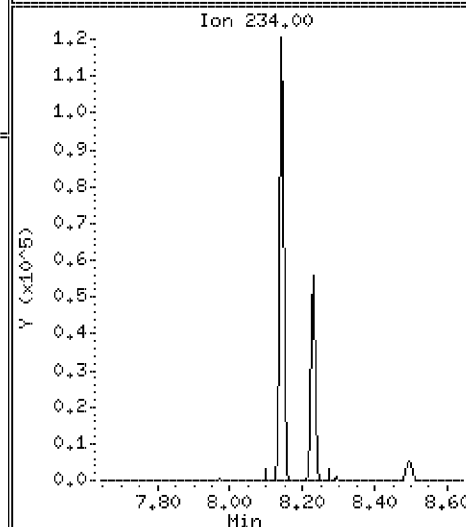
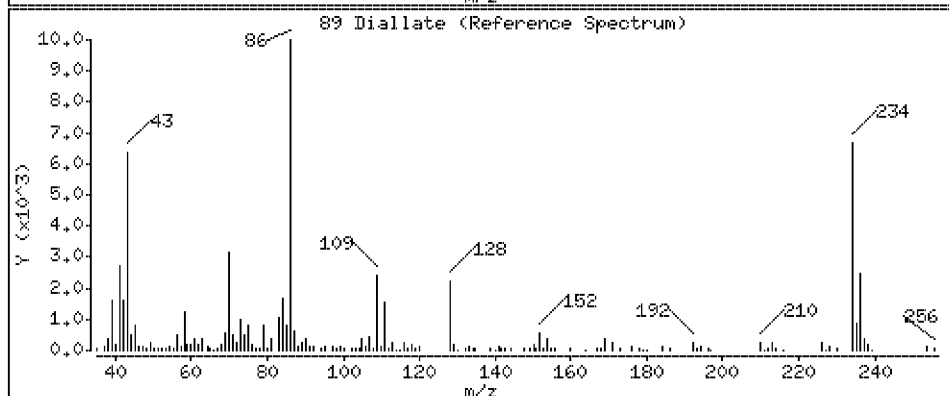
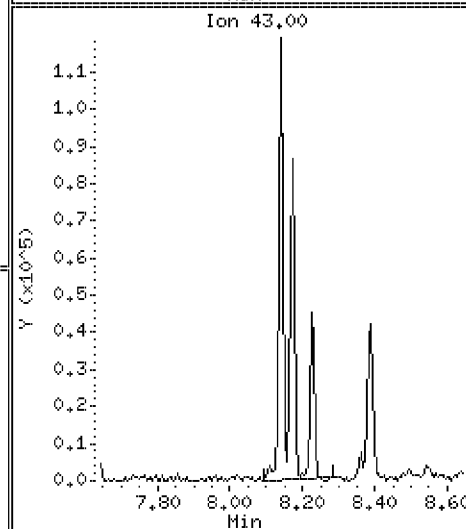
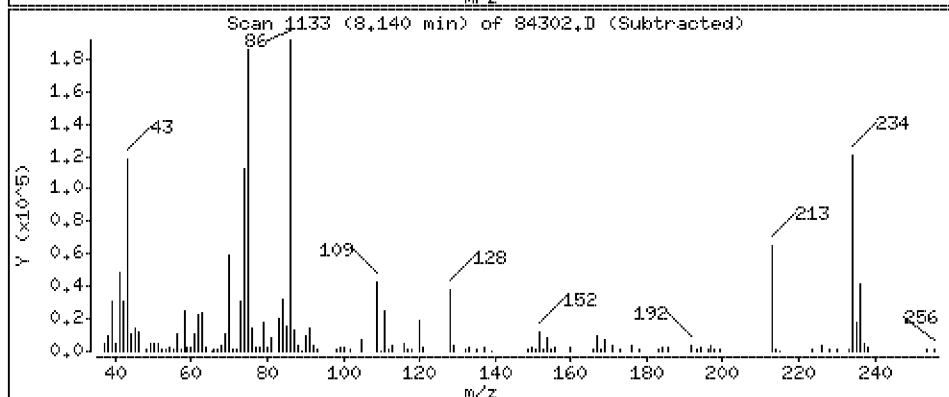
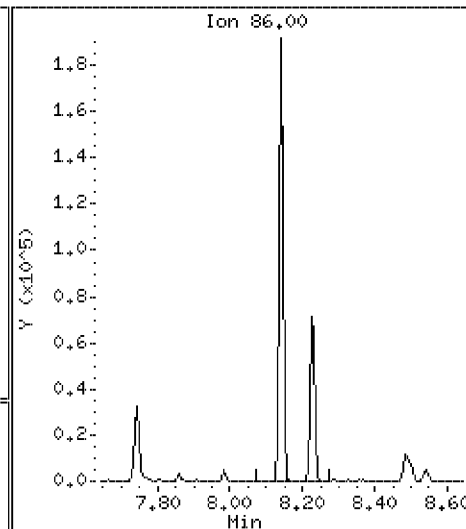
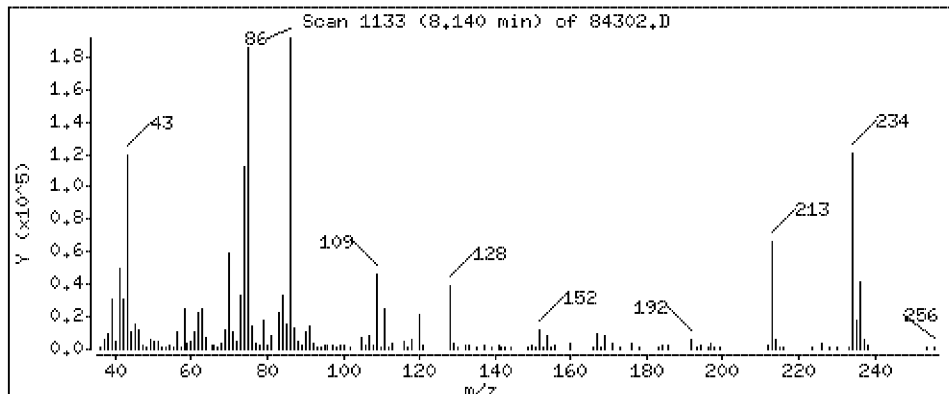
Operator: MJ

Column phase: HPMS-5

Column diameter: 0.25

89 Diallate

Concentration: 1470 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

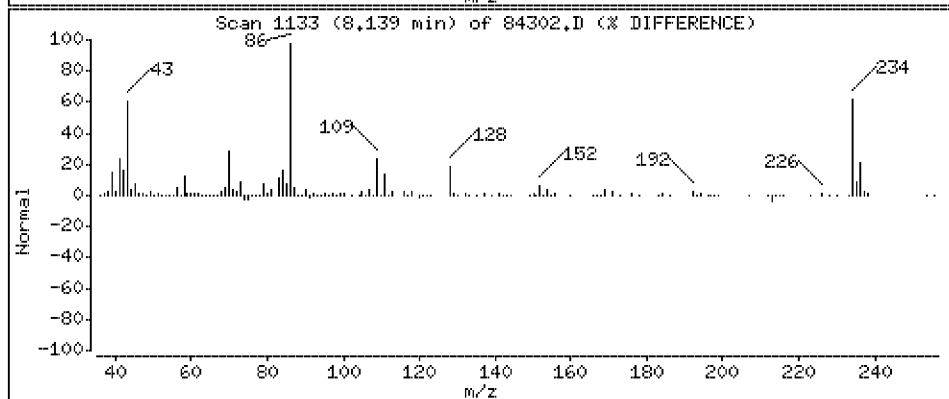
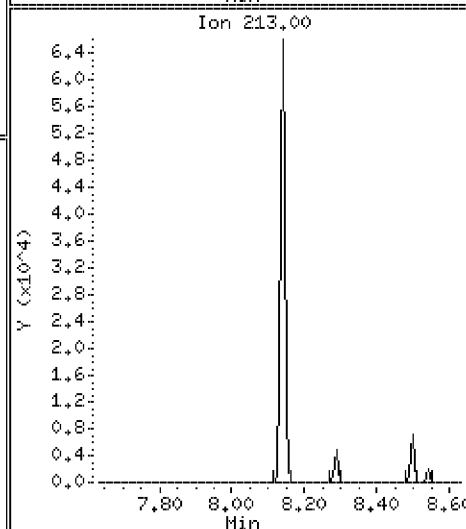
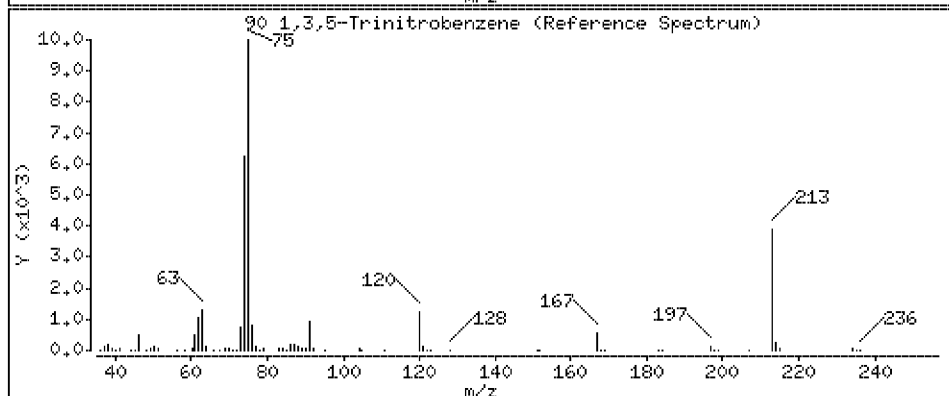
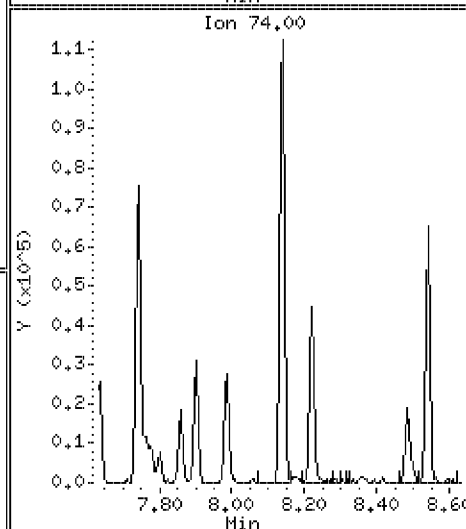
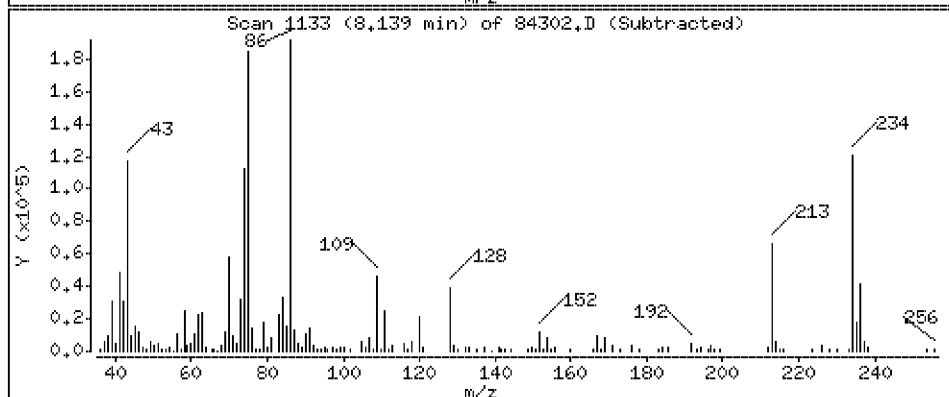
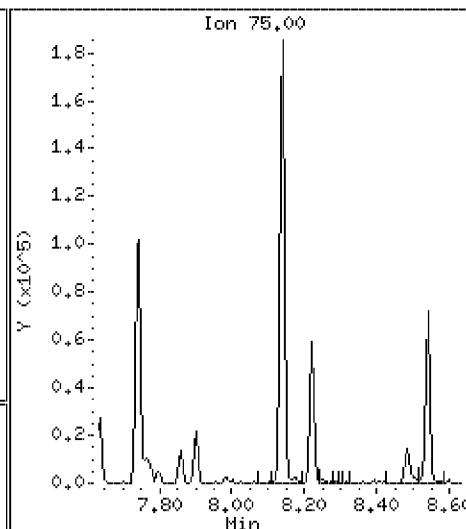
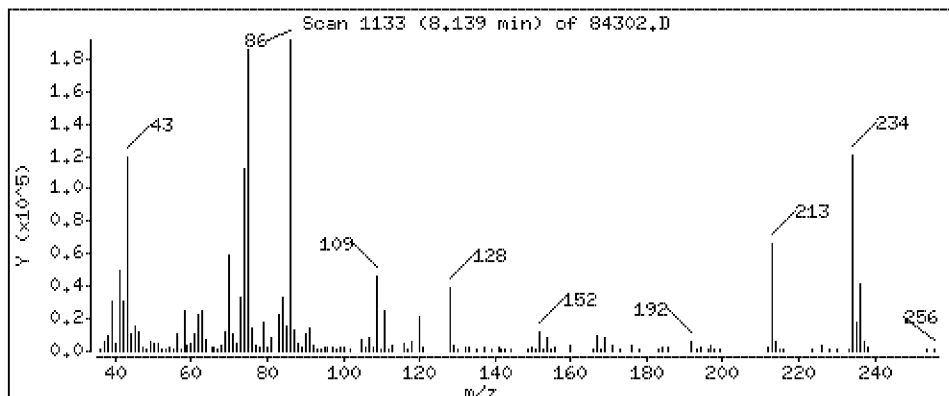
Operator: MJ

Column phase: HPMS-5

Column diameter: 0.25

90 1,3,5-Trinitrobenzene

Concentration: 746 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

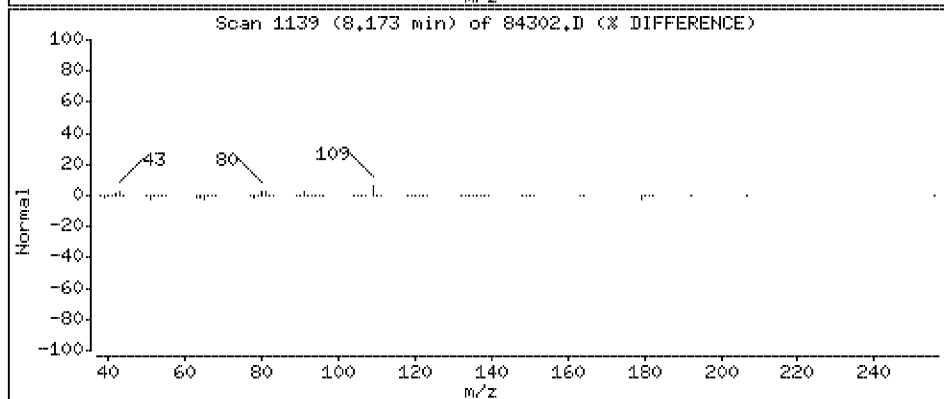
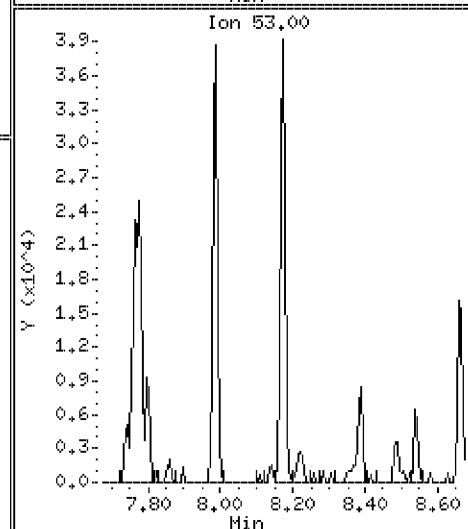
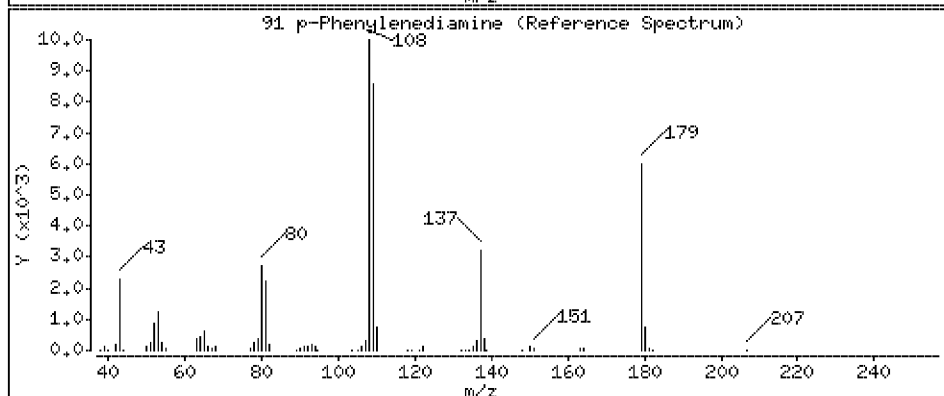
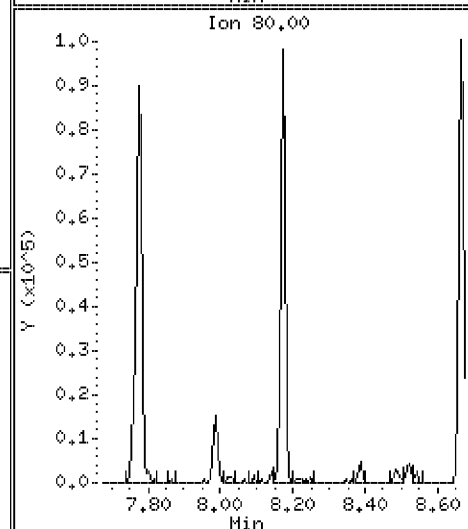
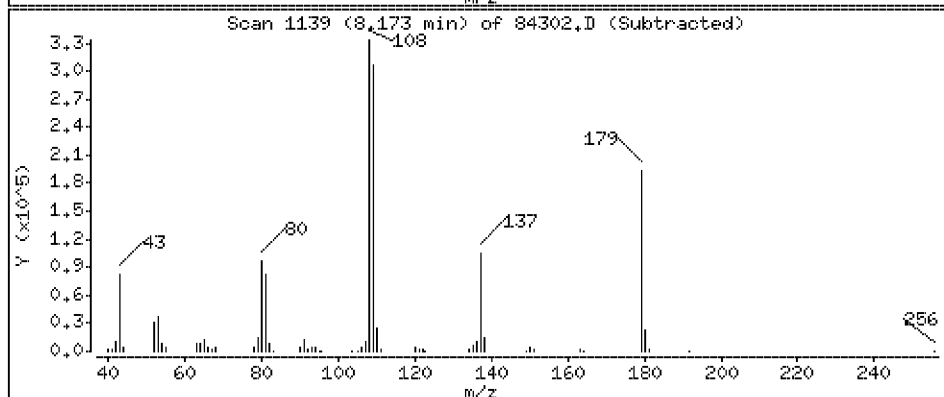
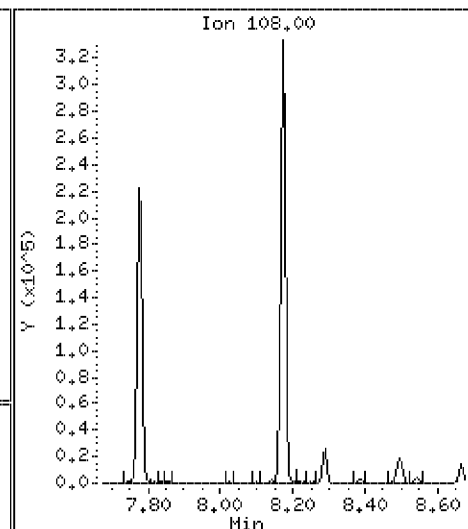
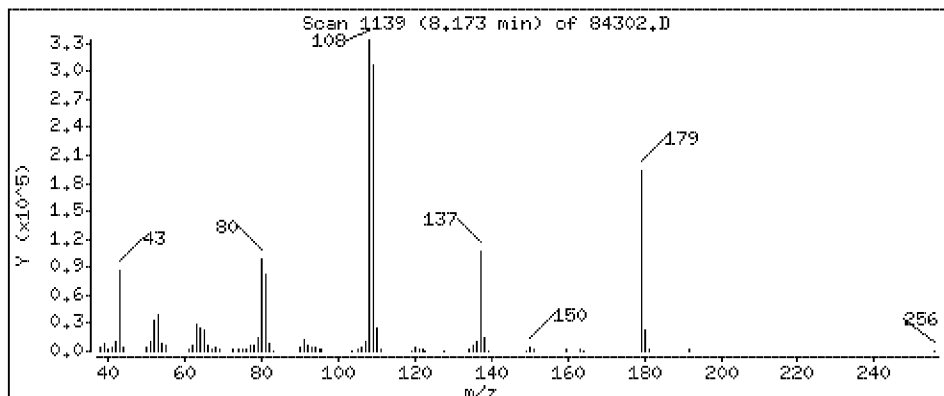
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

91 p-Phenylenediamine

Concentration: 1680 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

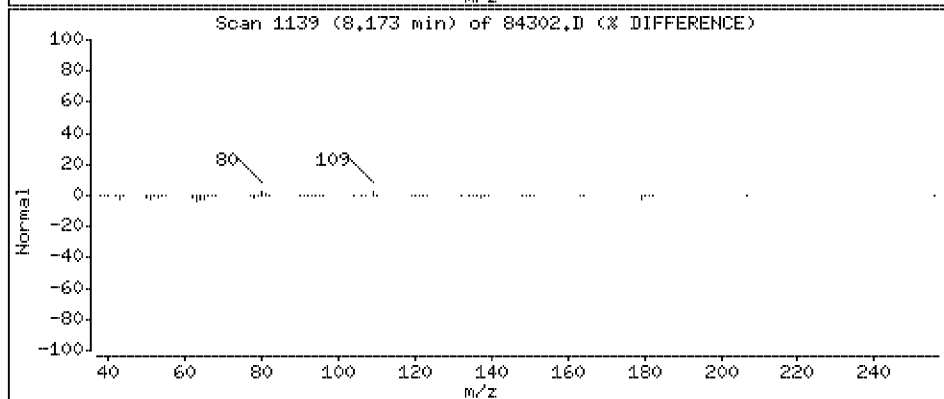
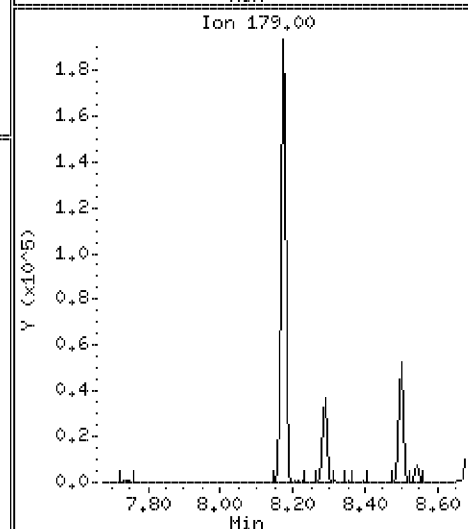
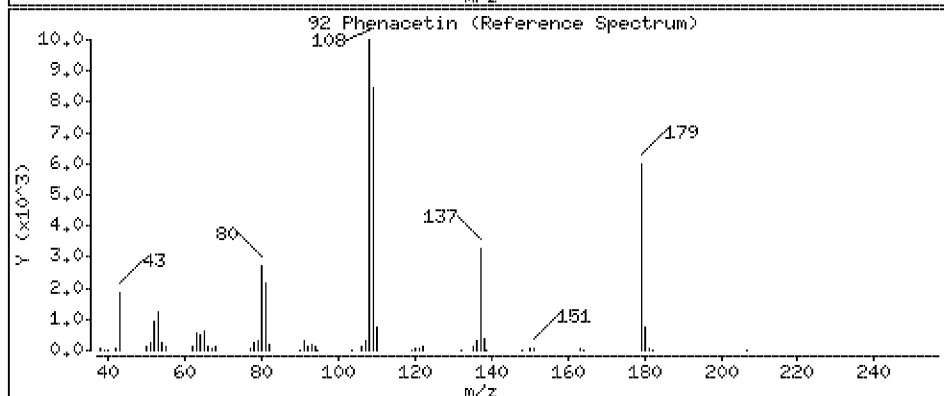
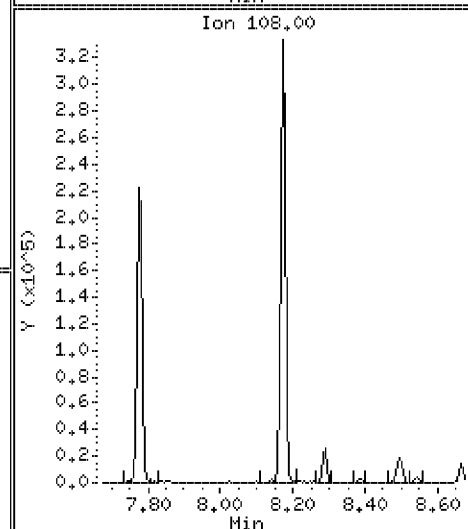
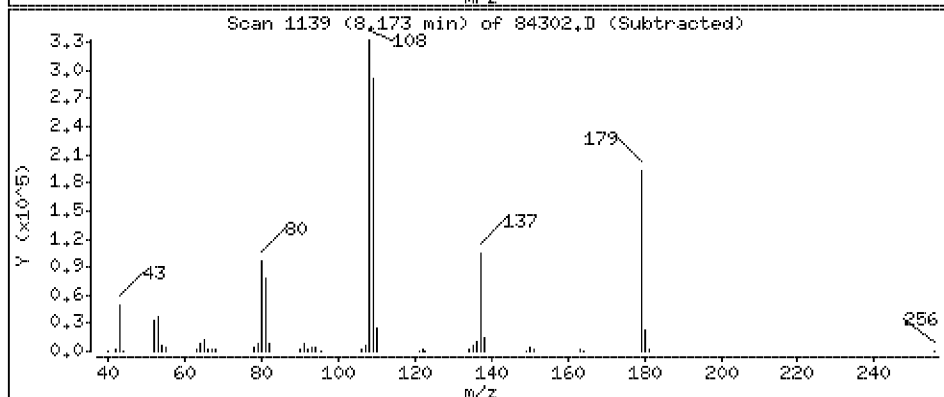
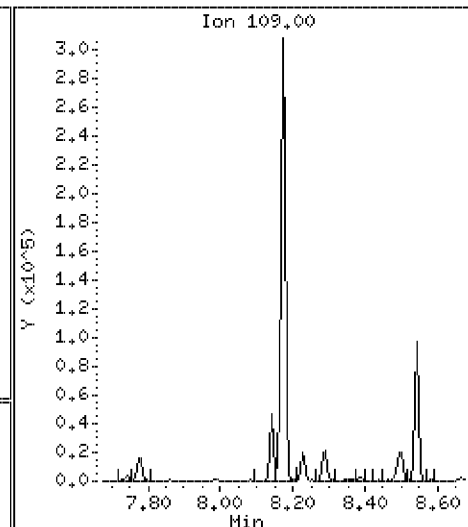
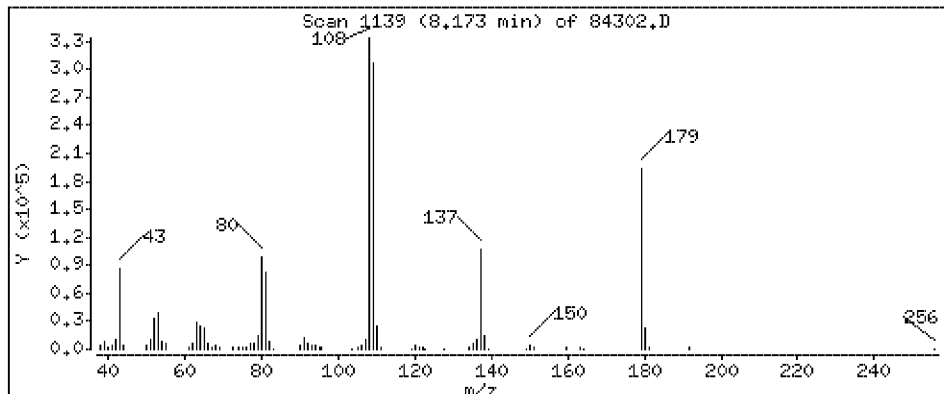
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

92 Phenacetin

Concentration: 1620 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

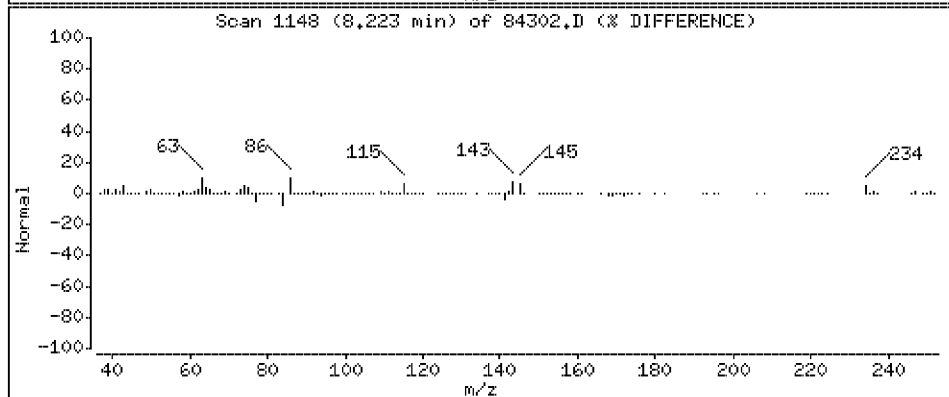
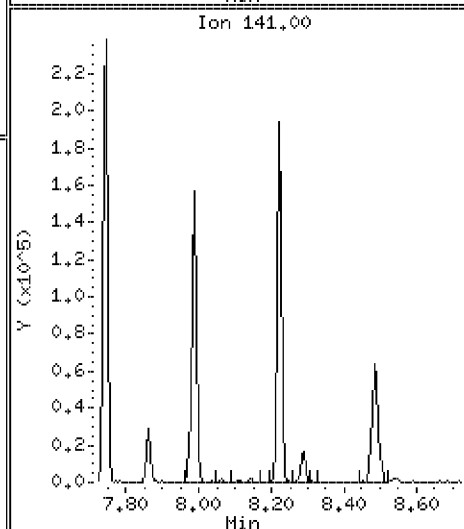
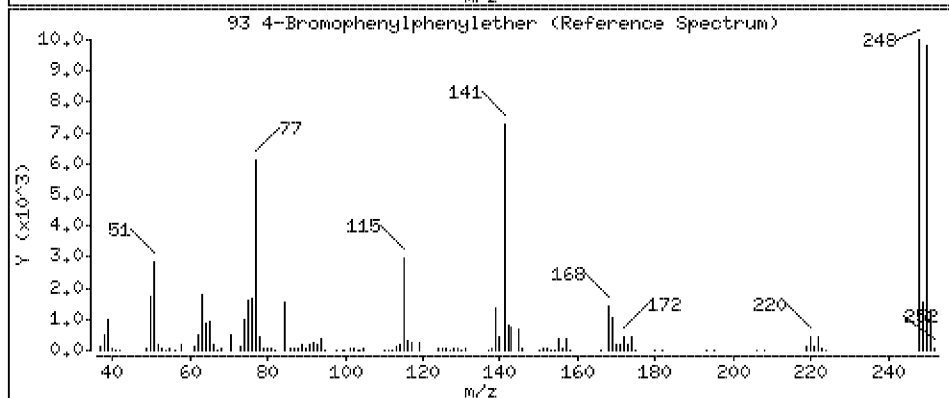
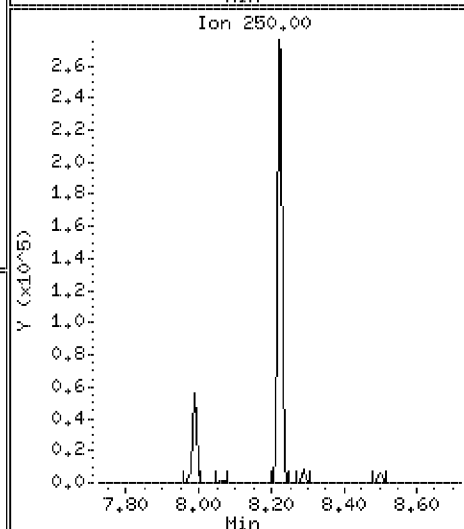
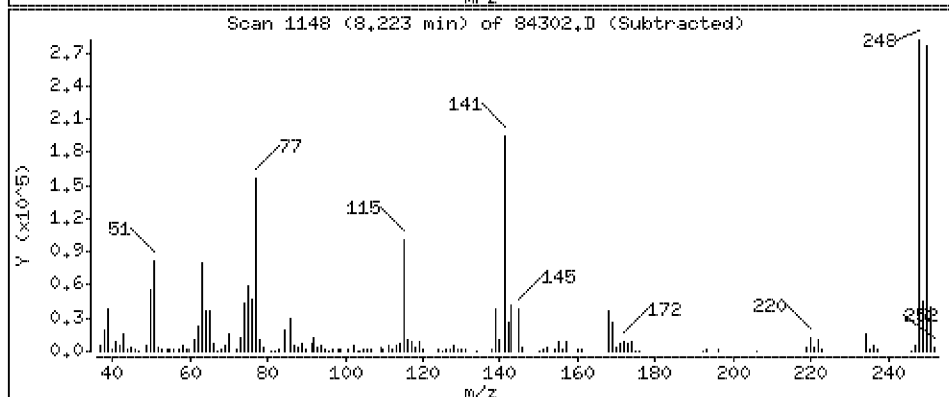
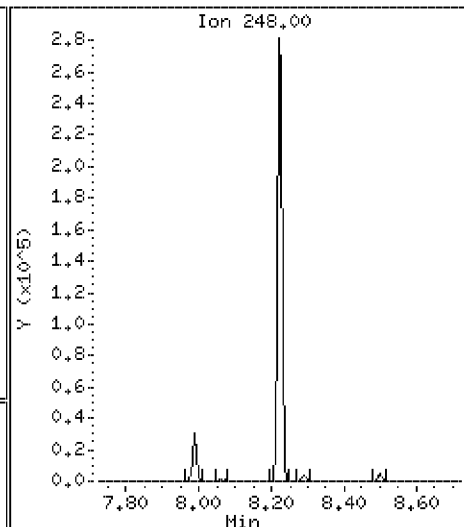
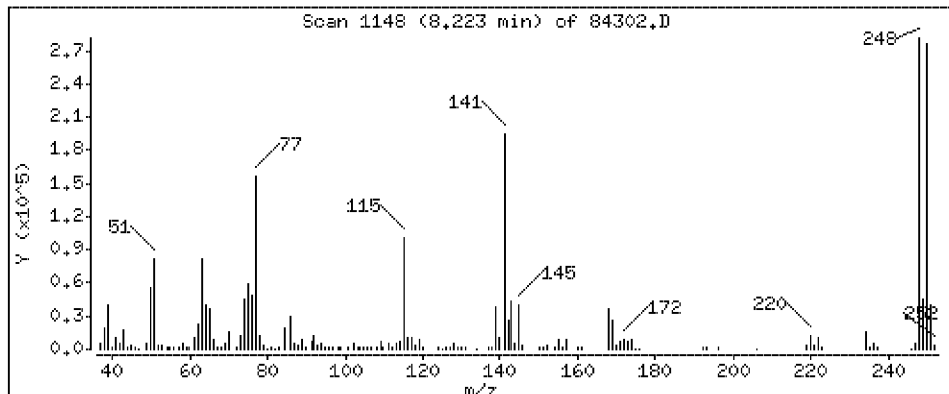
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

93 4-Bromophenylphenylether

Concentration: 1430 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

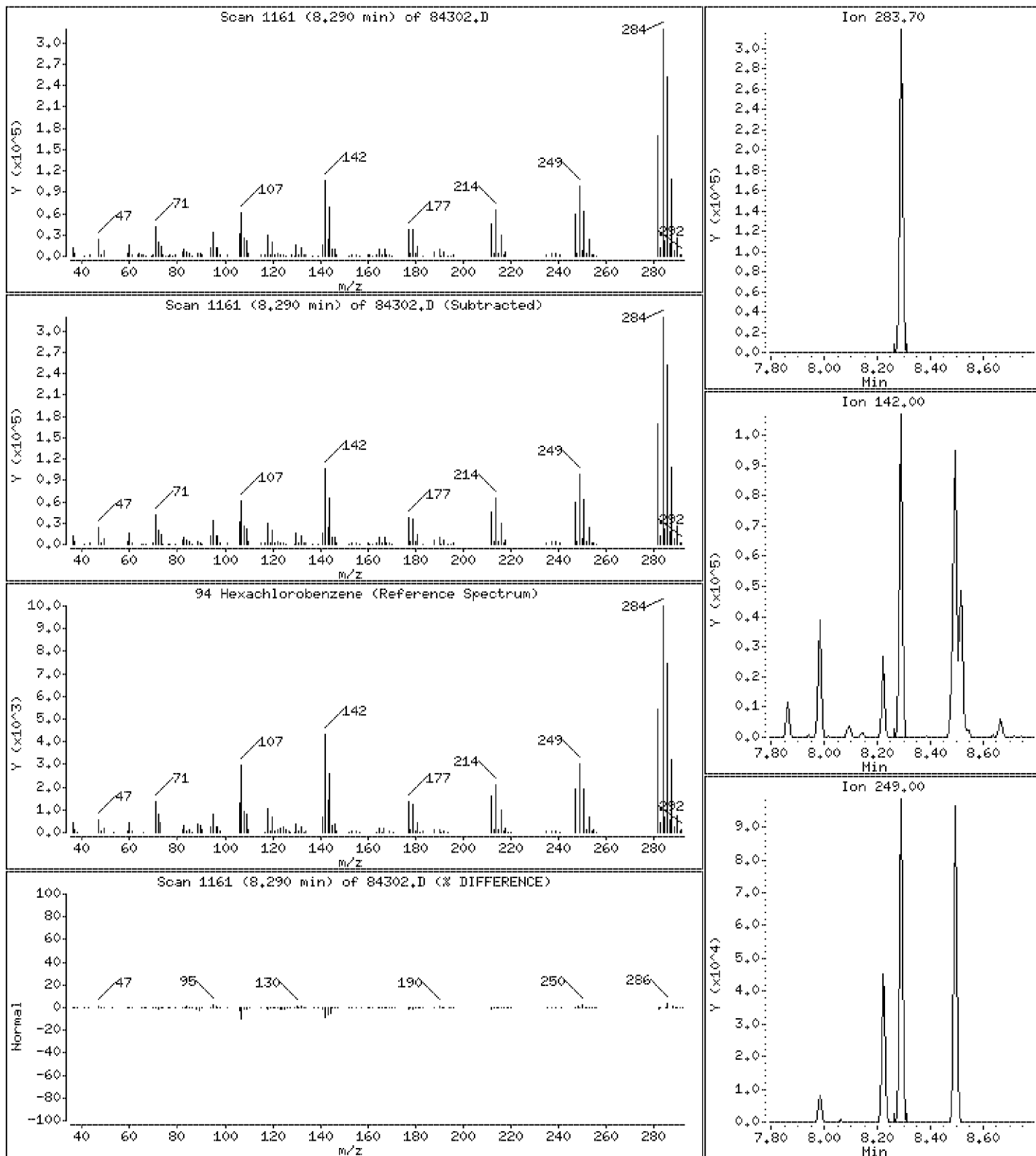
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

94 Hexachlorobenzene

Concentration: 1340 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

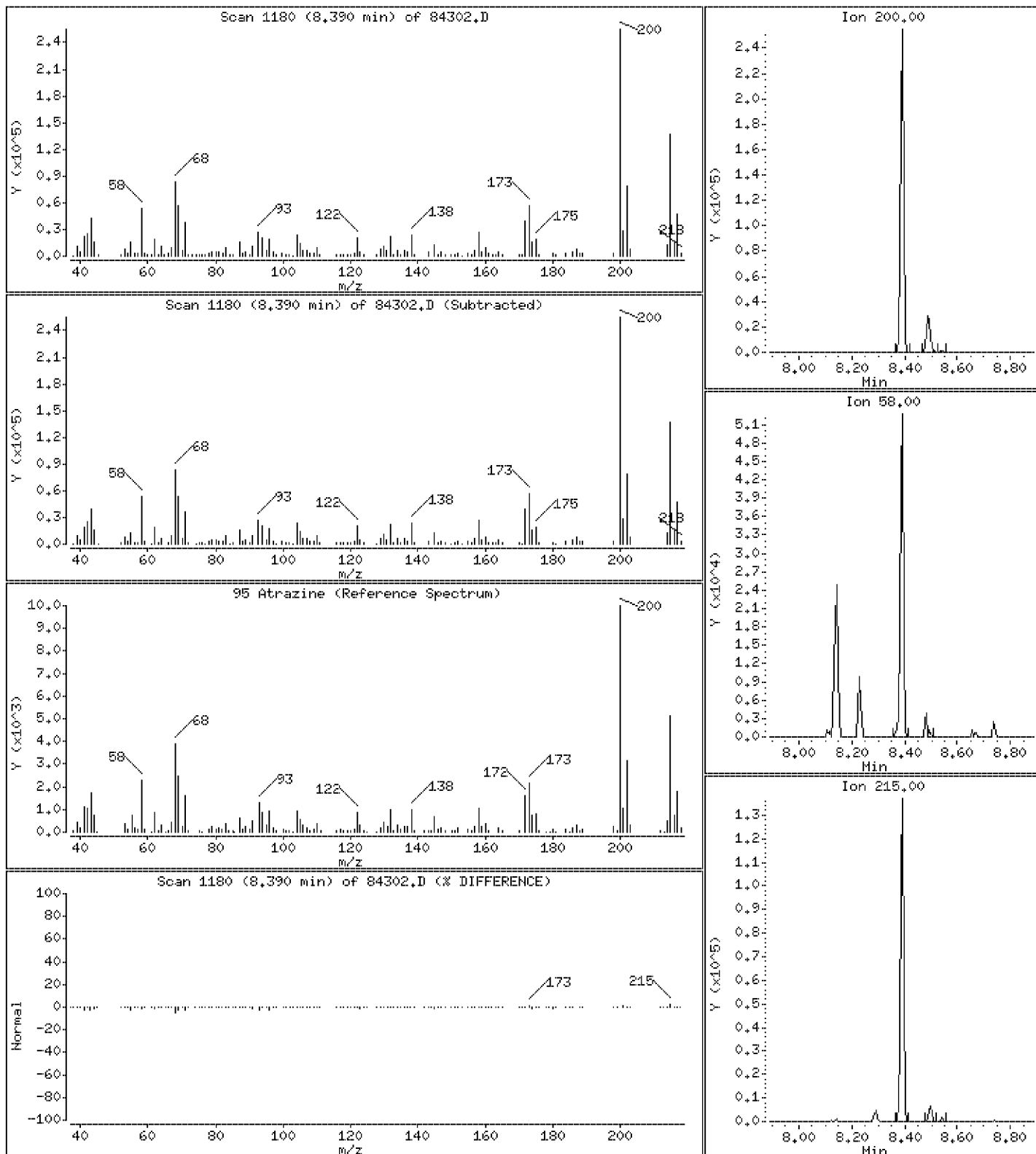
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

95 Atrazine

Concentration: 1330 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

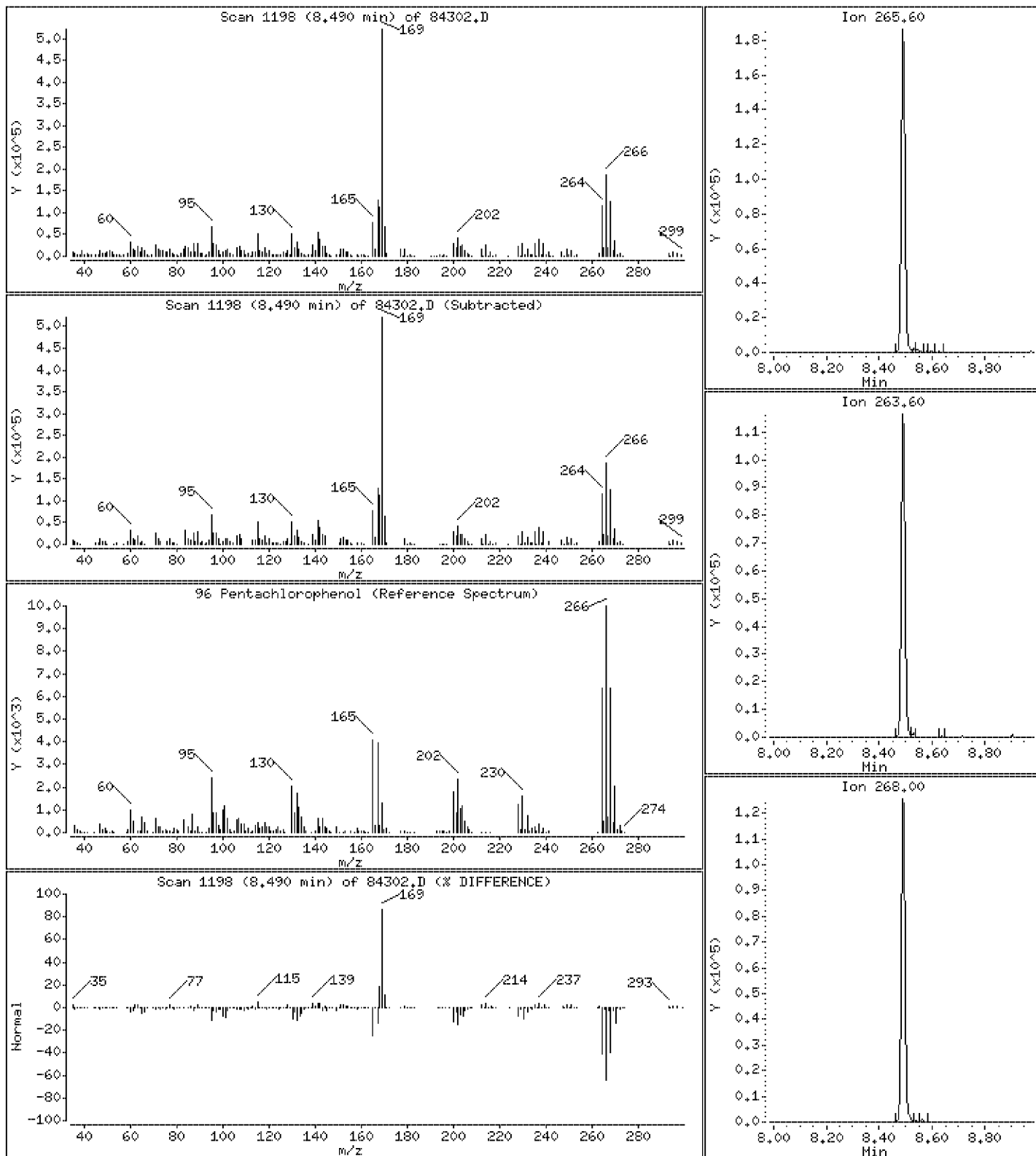
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

96 Pentachlorophenol

Concentration: 1570 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

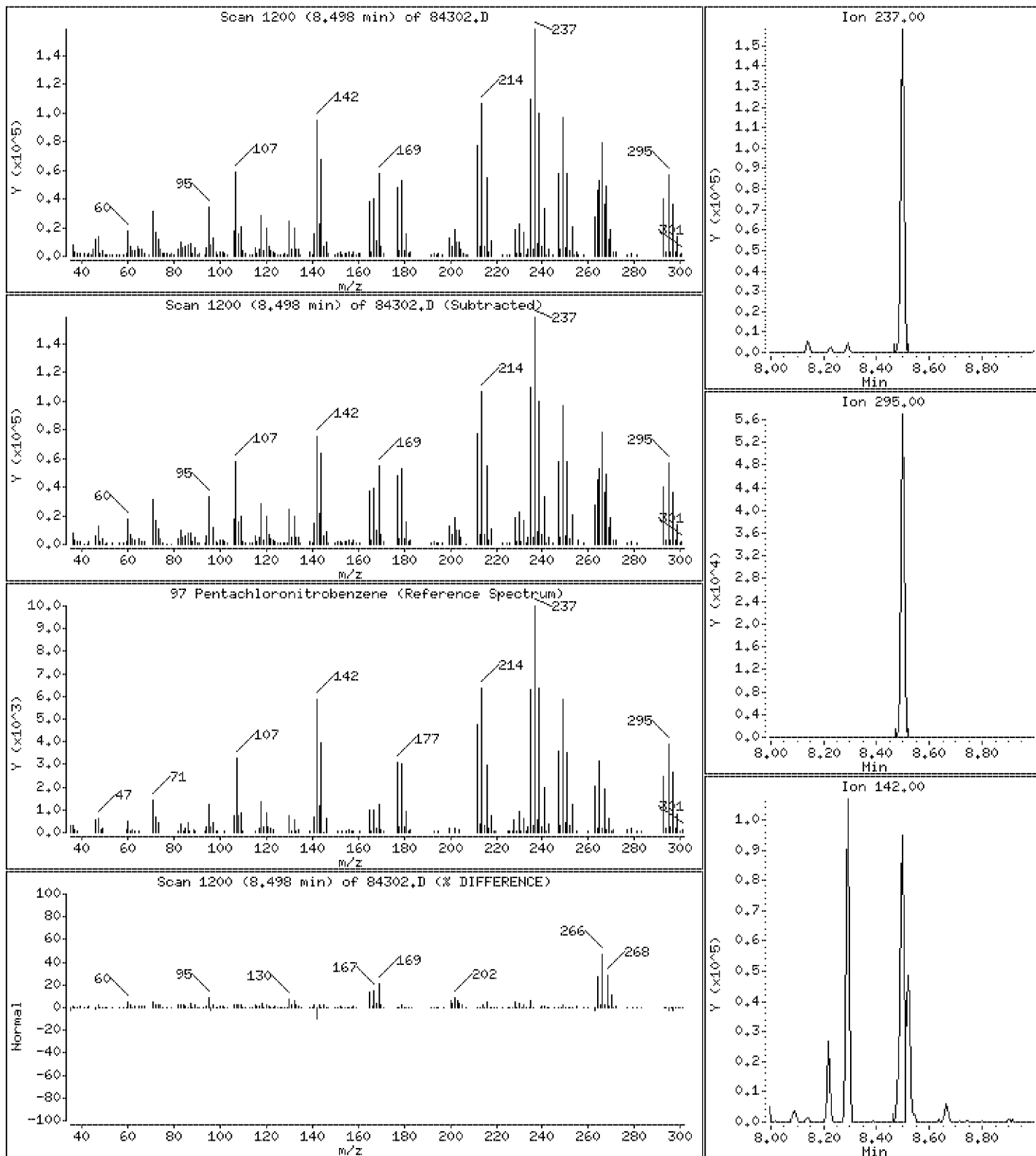
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

97 Pentachloronitrobenzene

Concentration: 1690 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

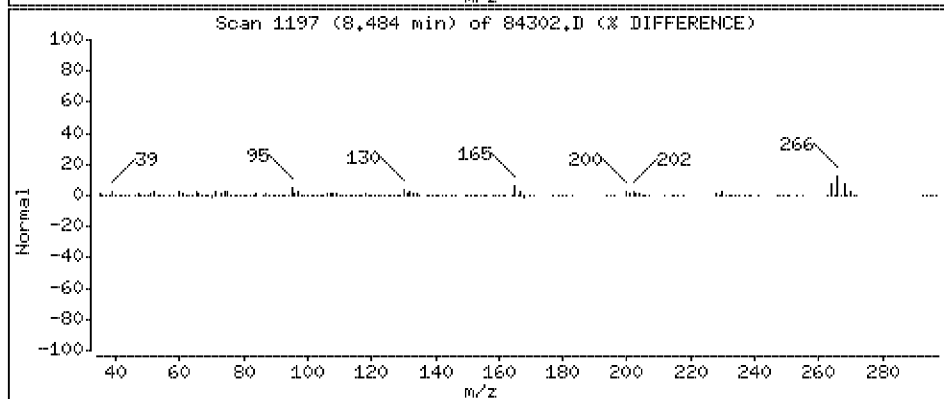
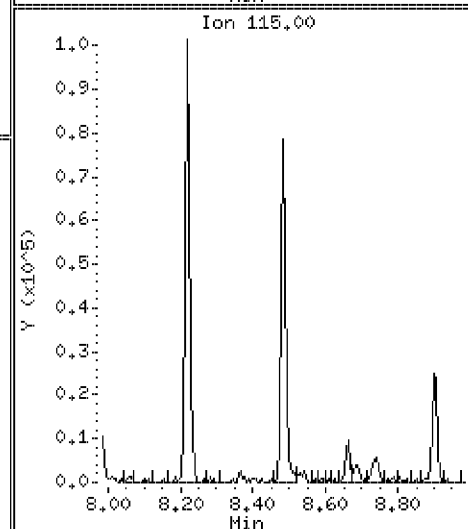
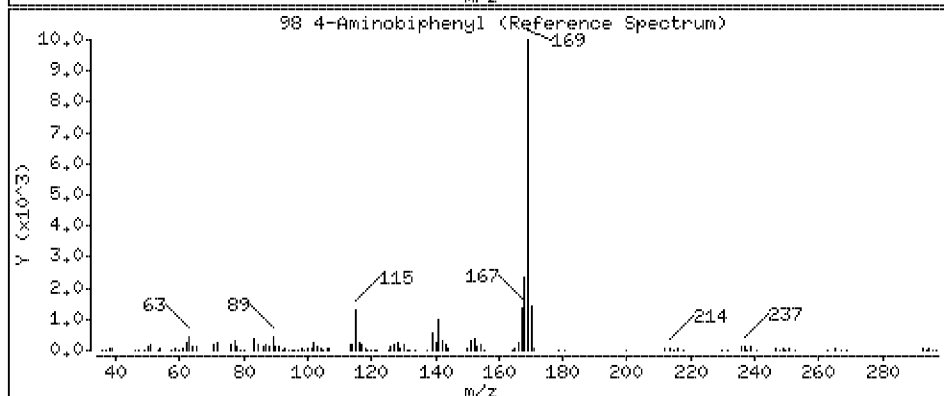
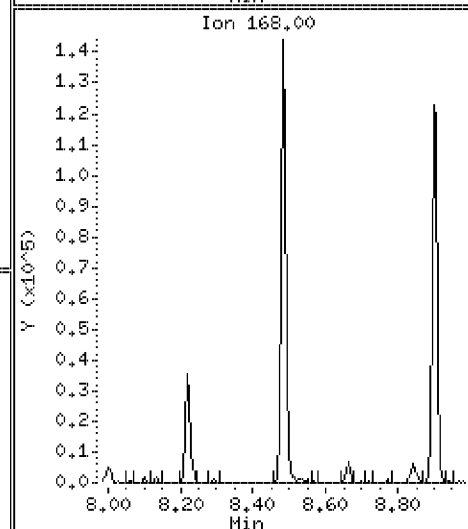
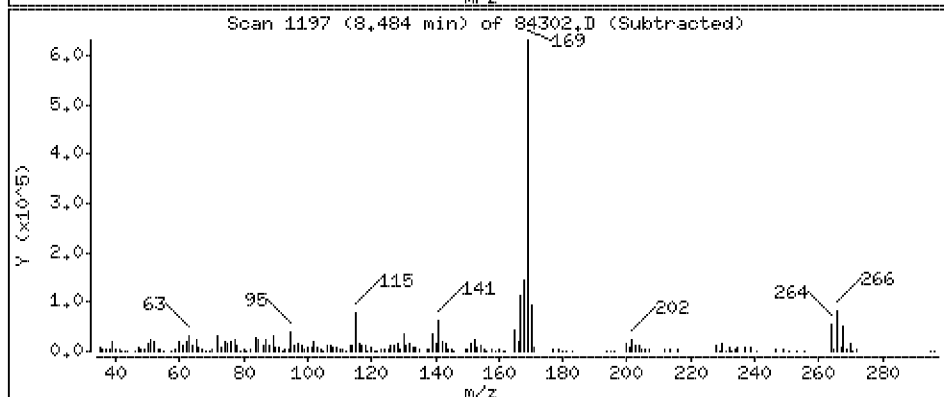
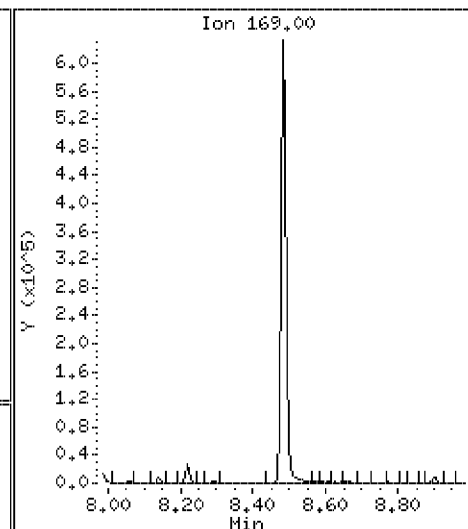
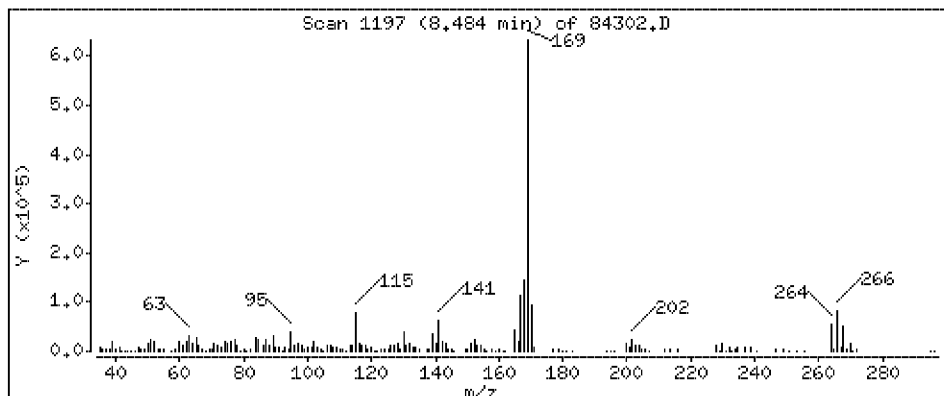
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

98 4-Aminobiphenyl

Concentration: 1510 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

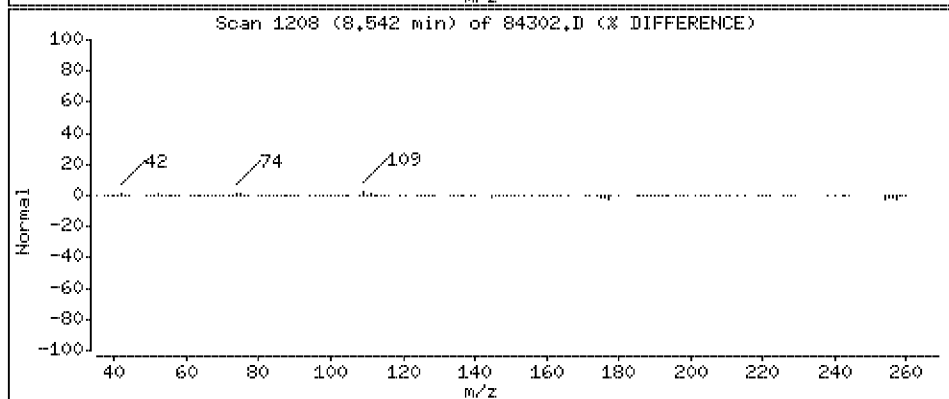
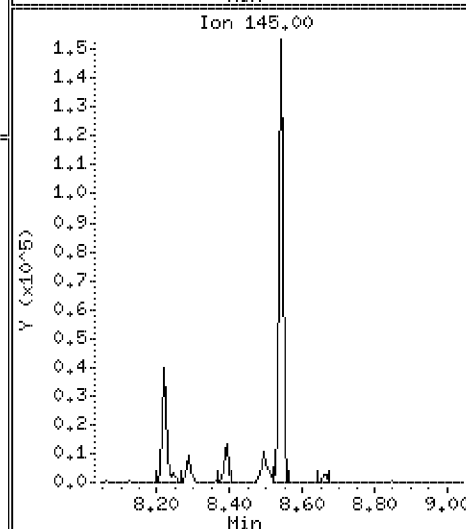
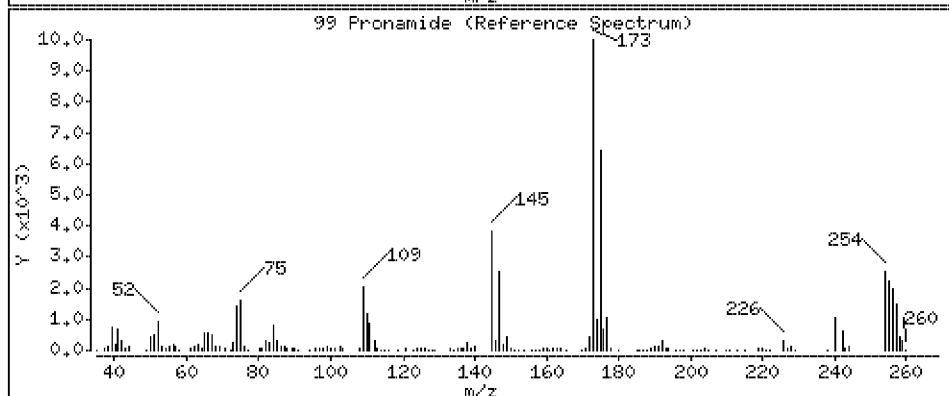
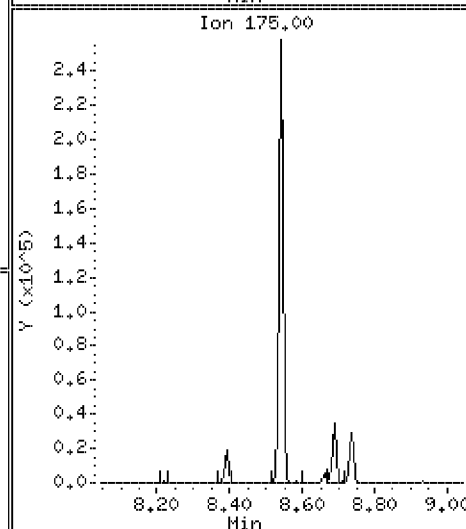
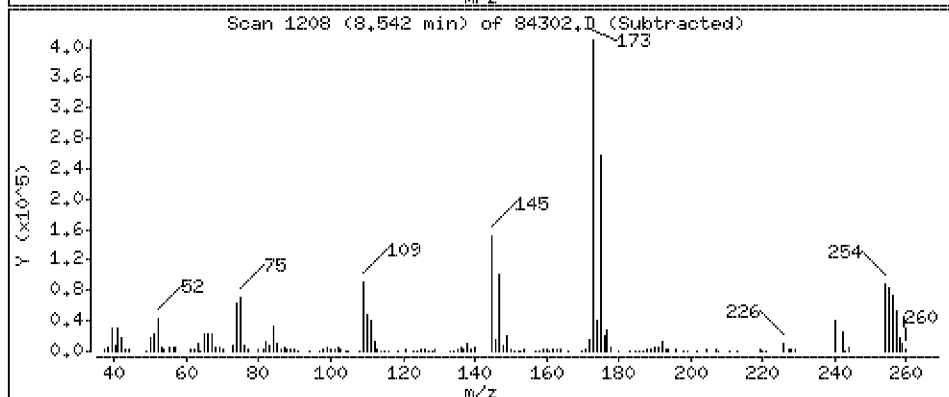
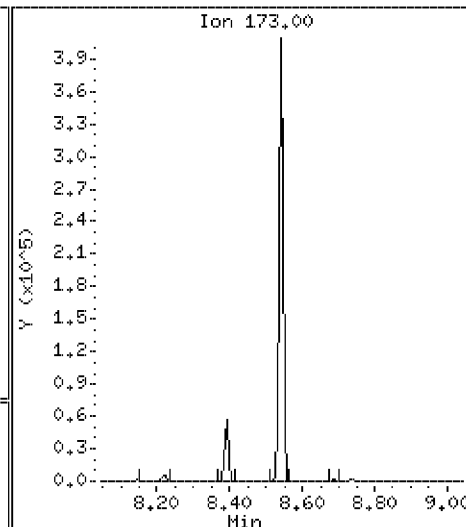
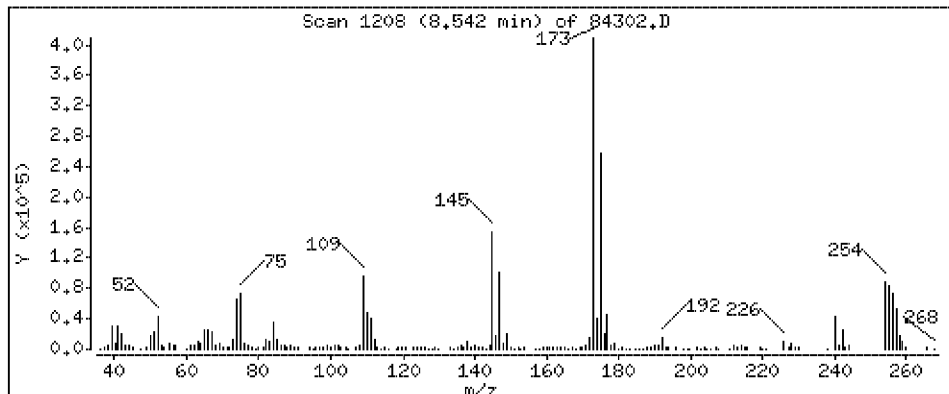
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

99 Pronamide

Concentration: 1560 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

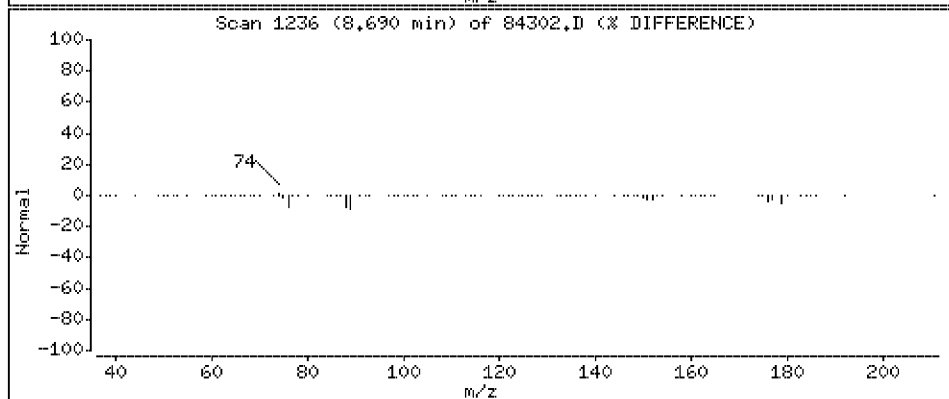
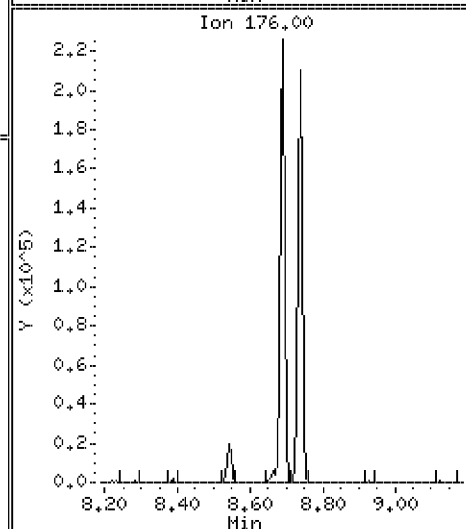
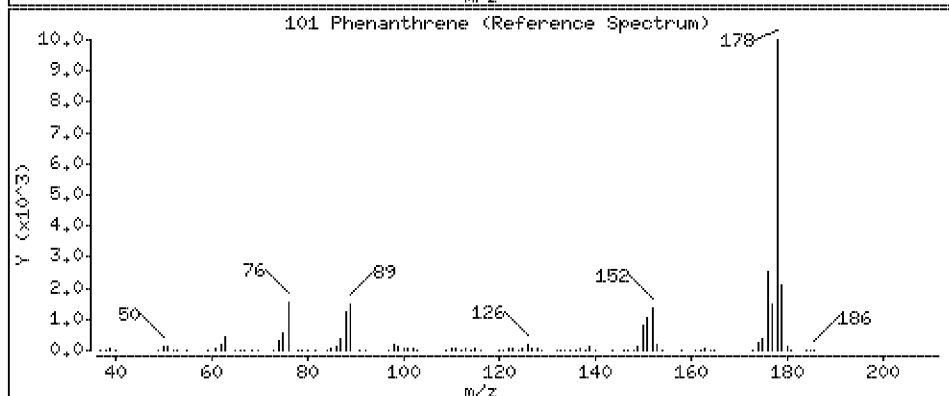
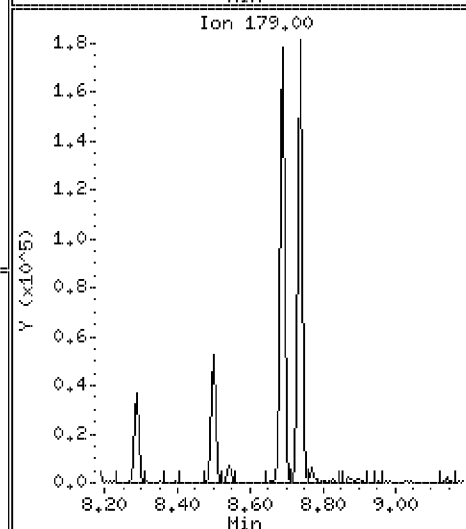
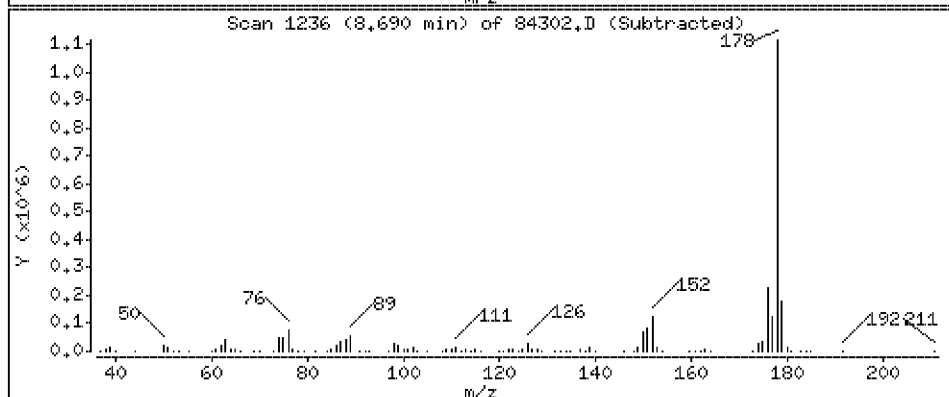
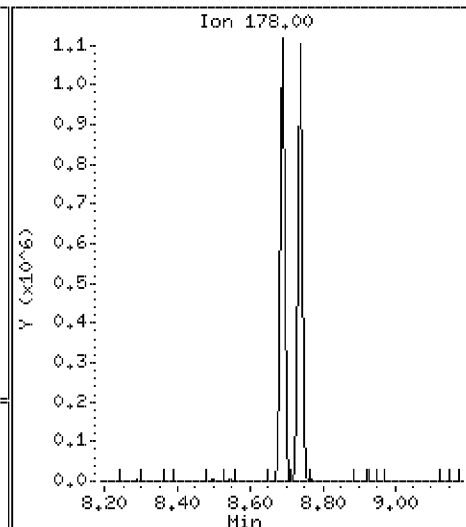
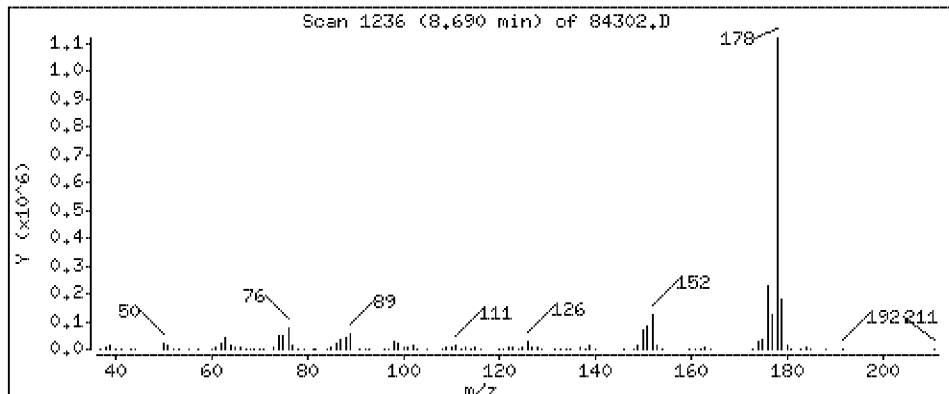
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

101 Phenanthrene

Concentration: 1590 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

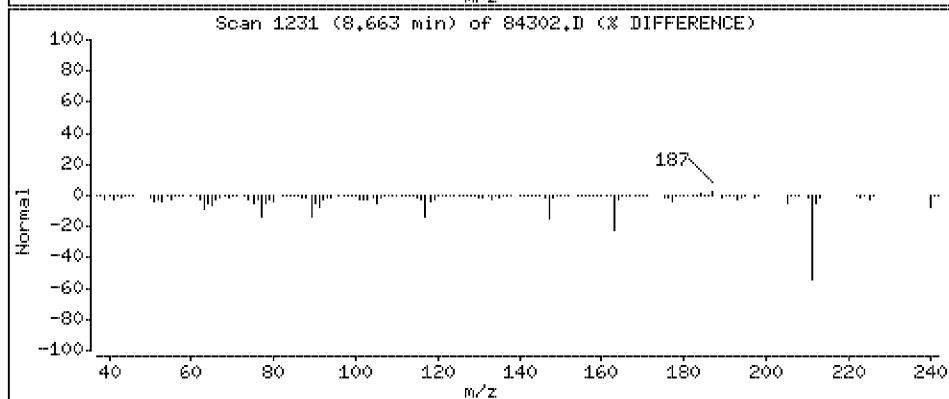
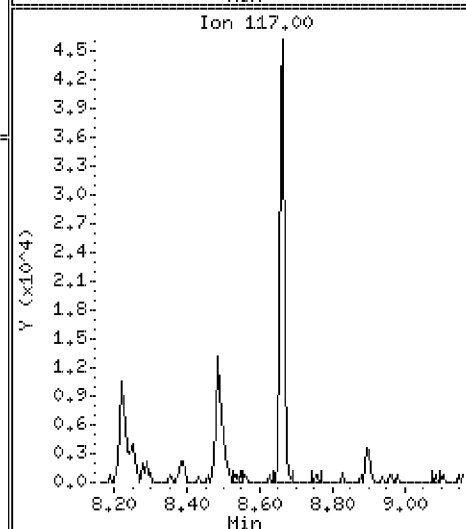
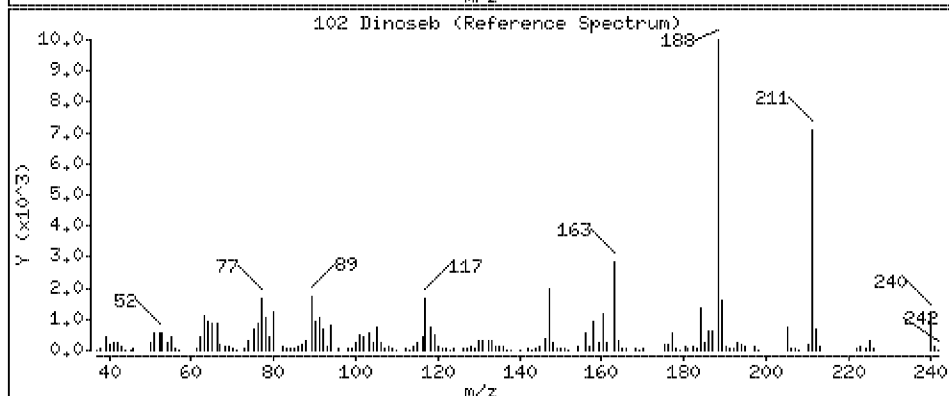
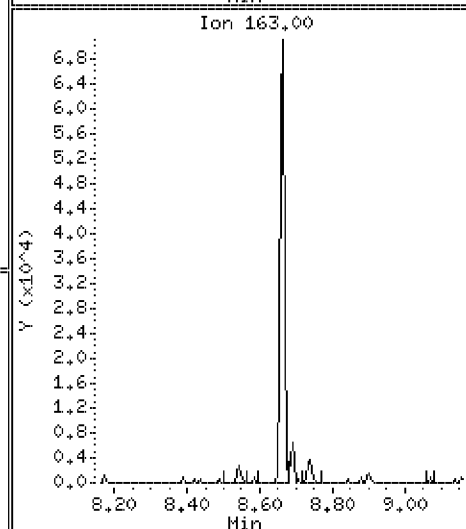
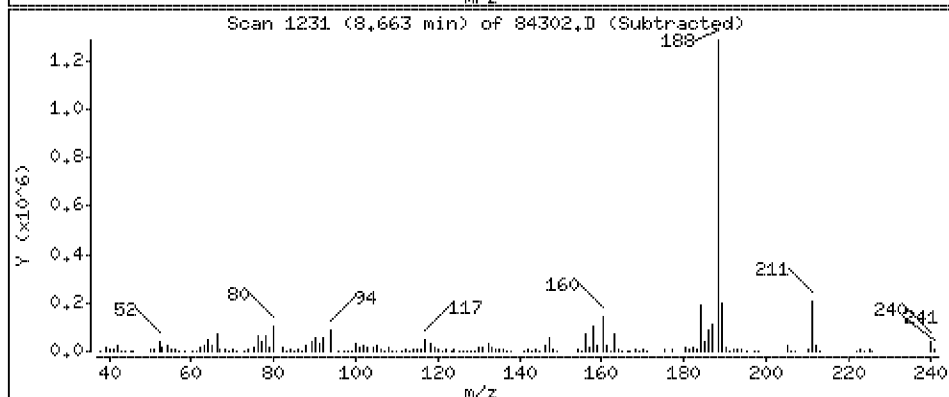
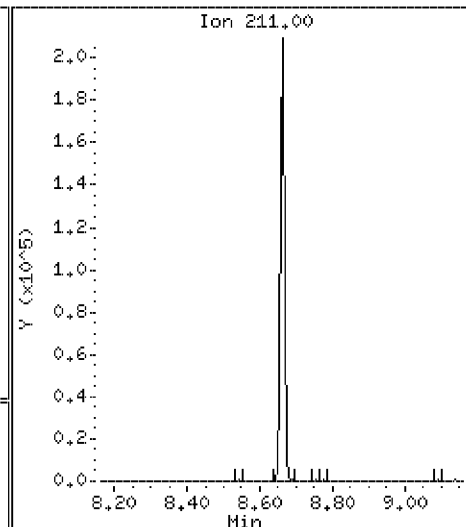
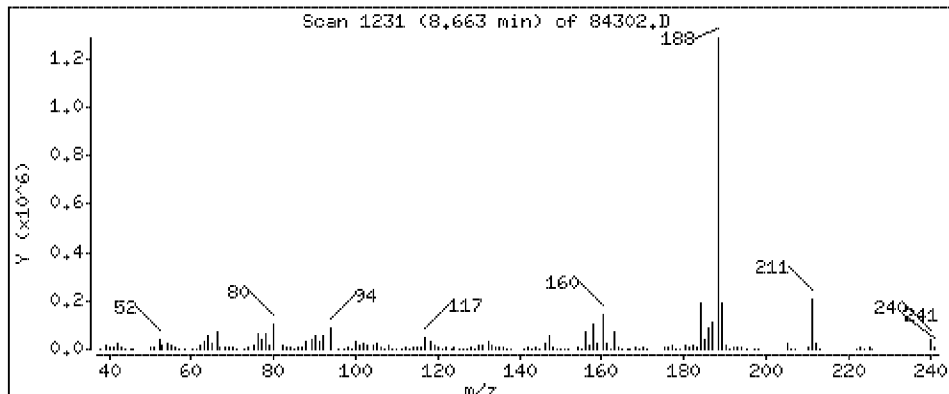
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

102 Dinoseb

Concentration: 1290 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

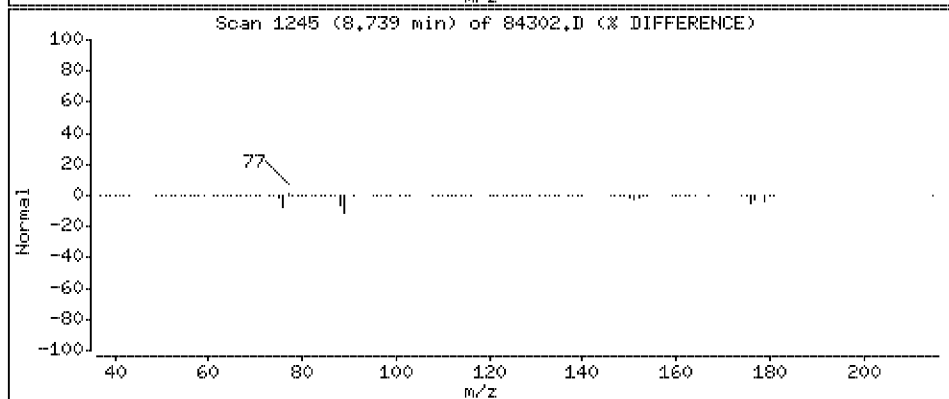
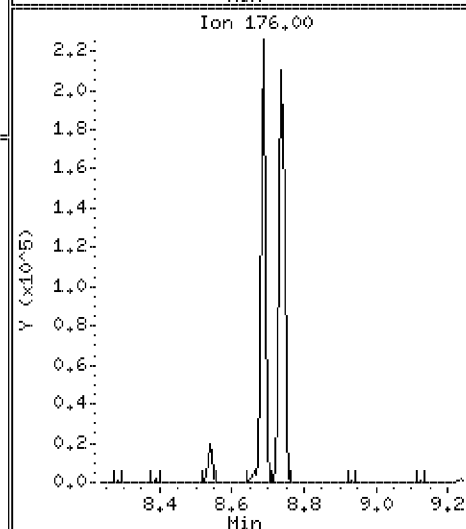
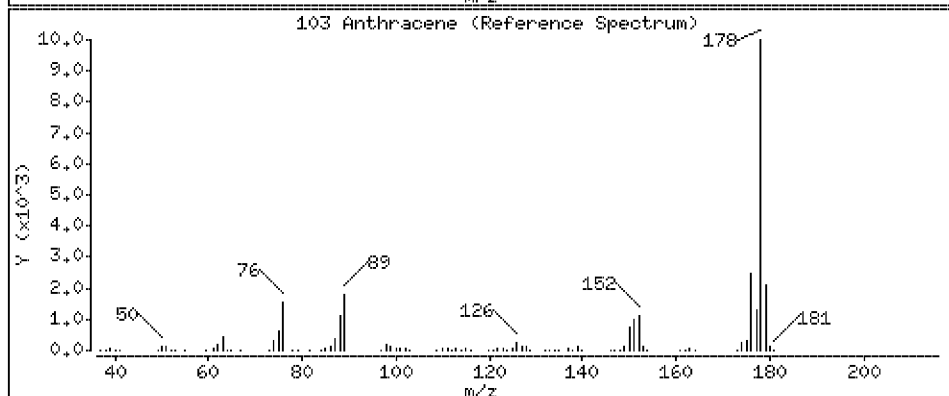
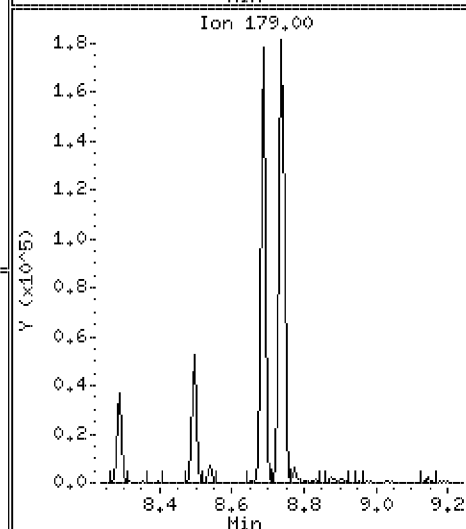
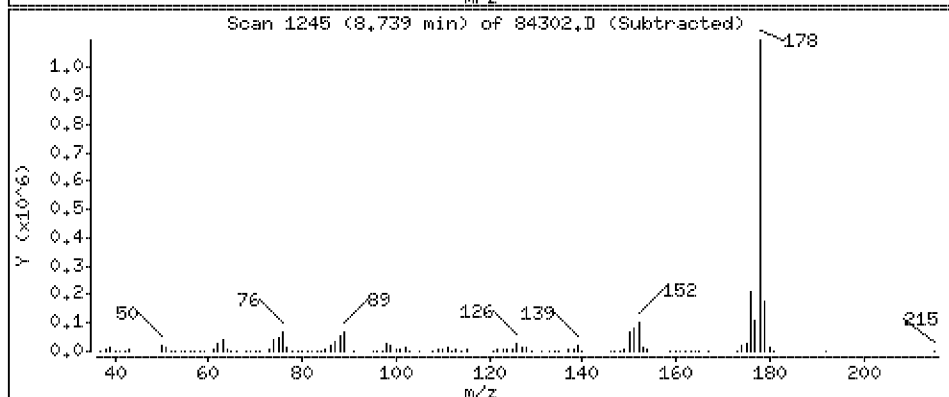
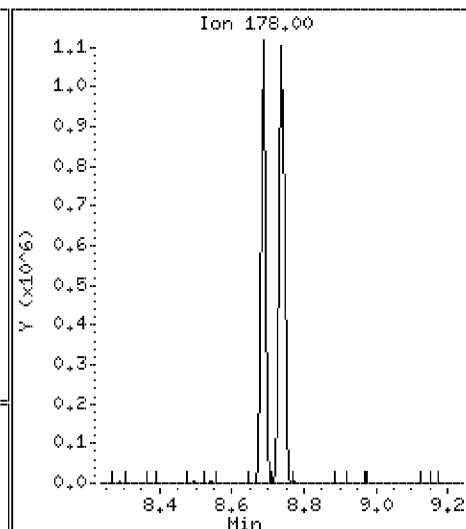
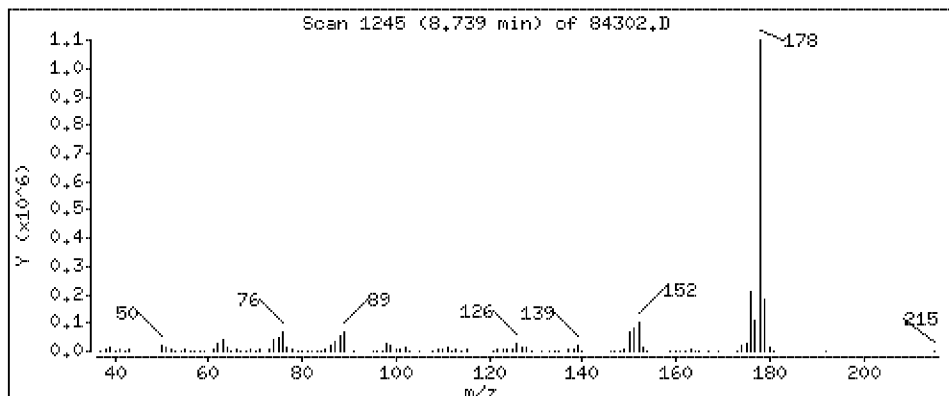
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

103 Anthracene

Concentration: 1520 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

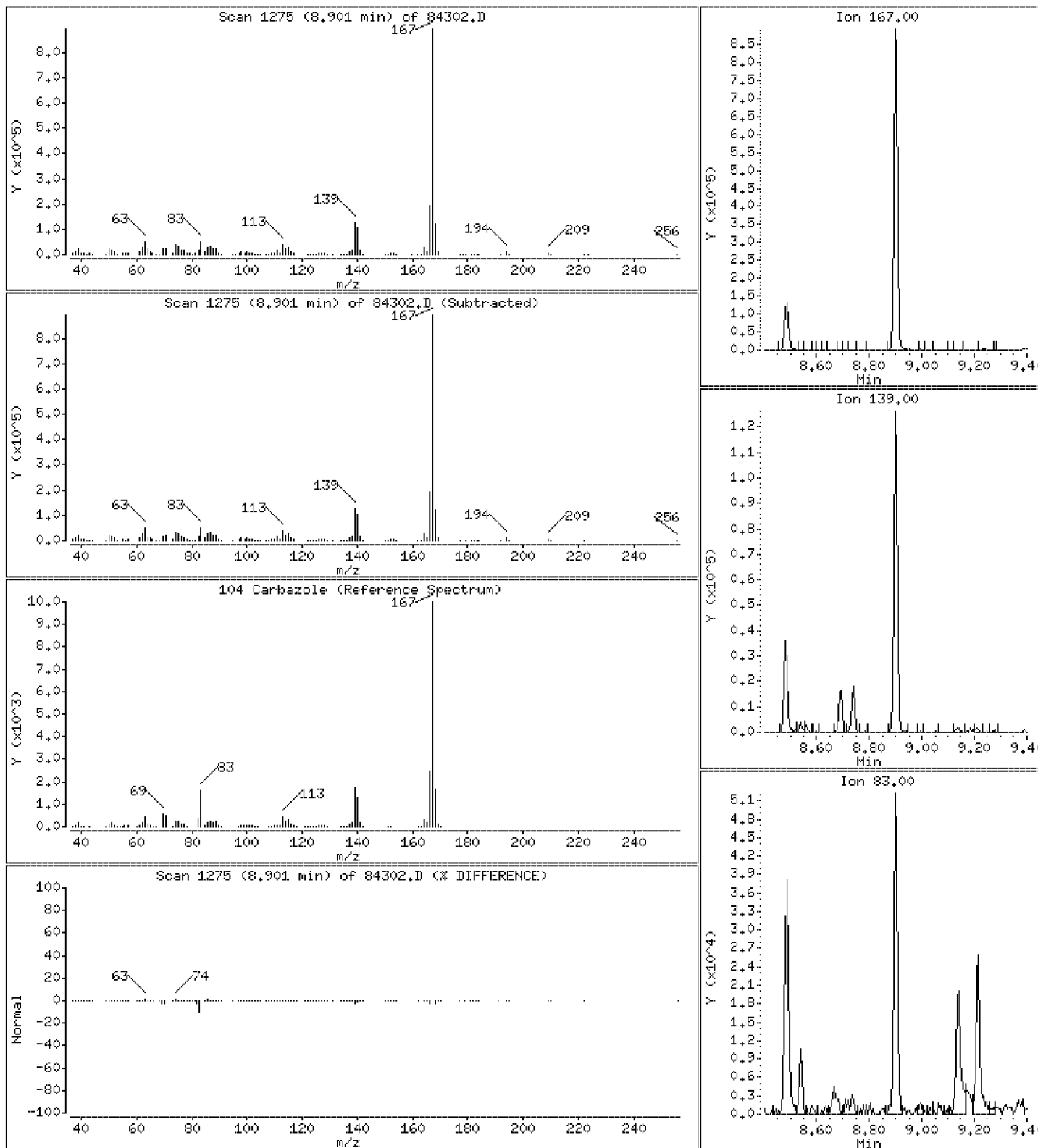
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

104 Carbazole

Concentration: 1670 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

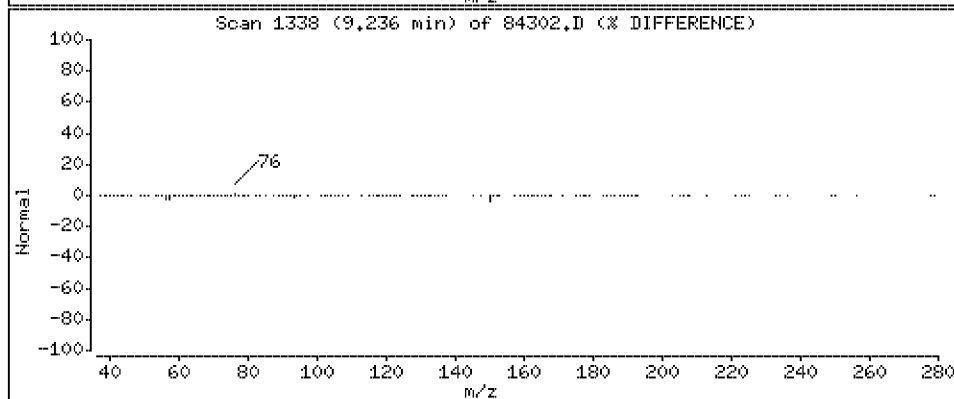
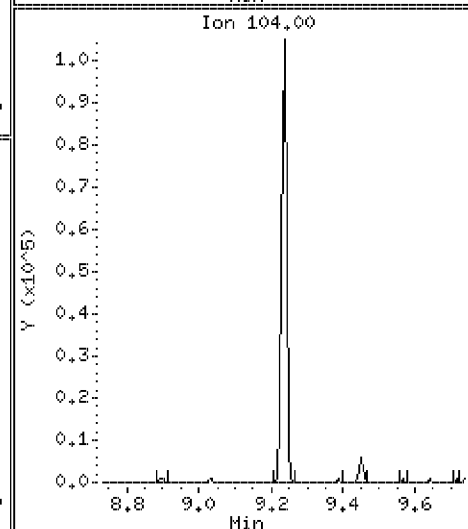
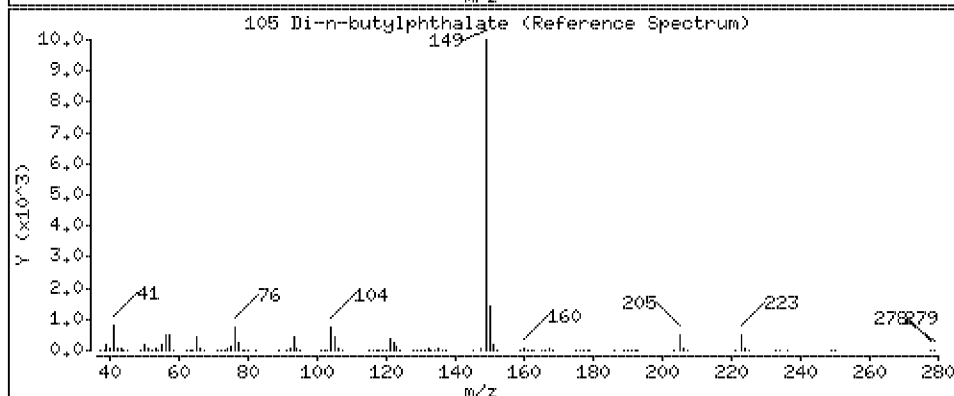
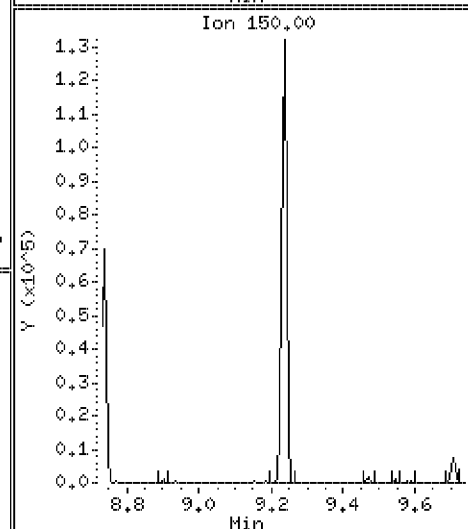
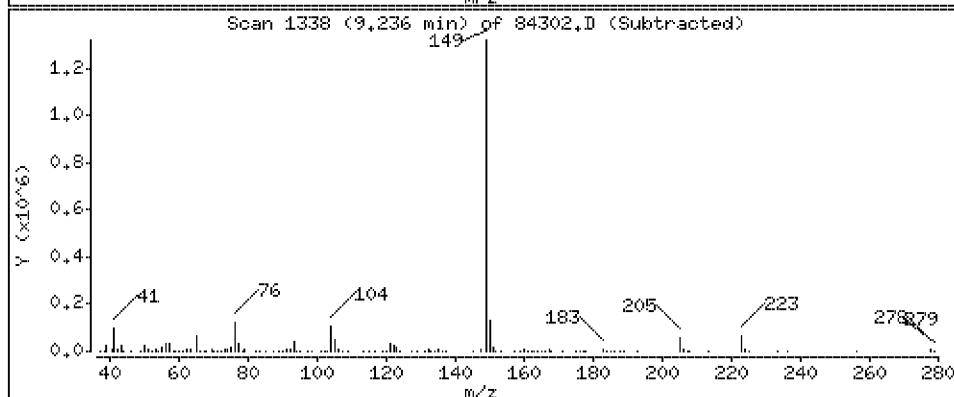
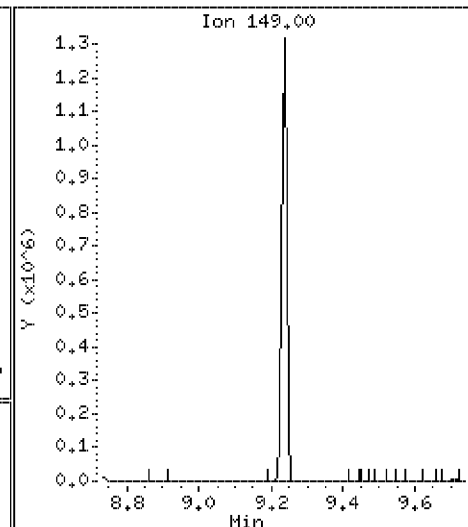
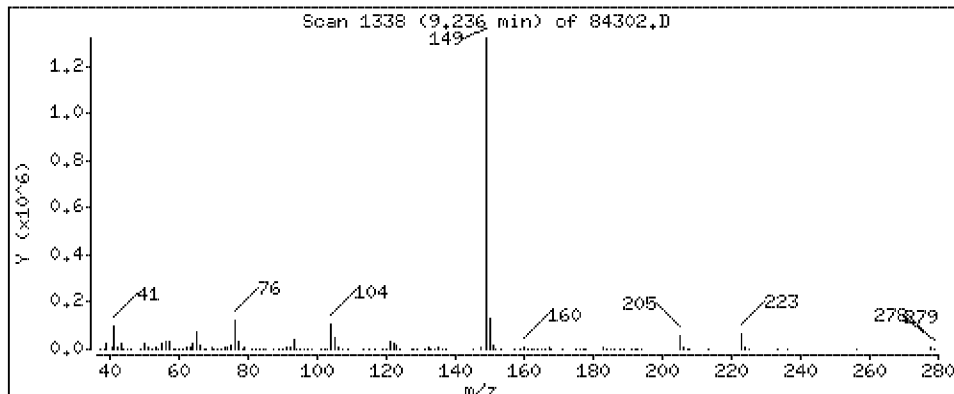
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

105 Di-n-butylphthalate

Concentration: 1550 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

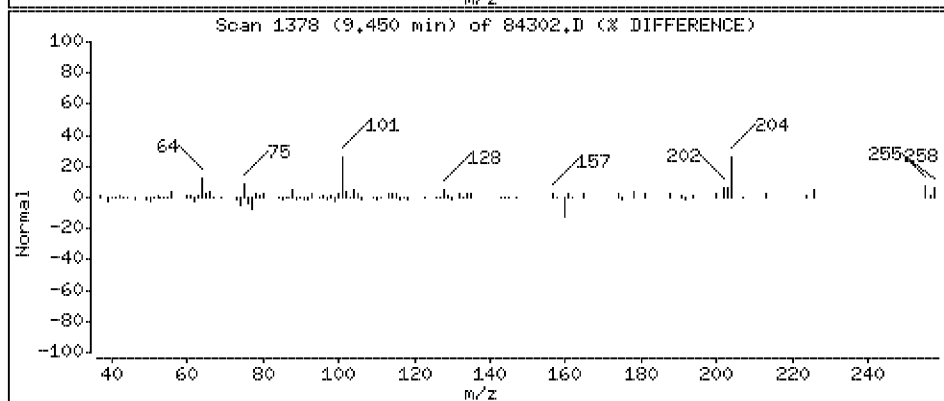
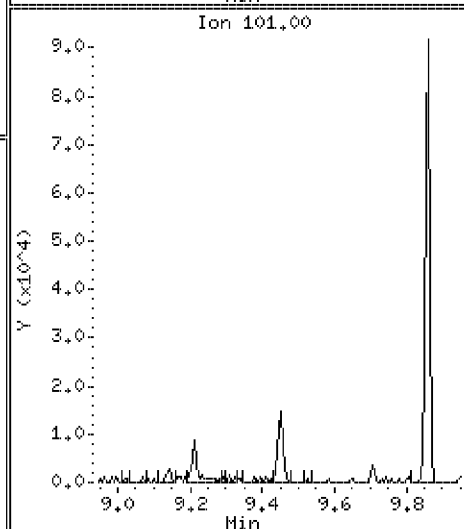
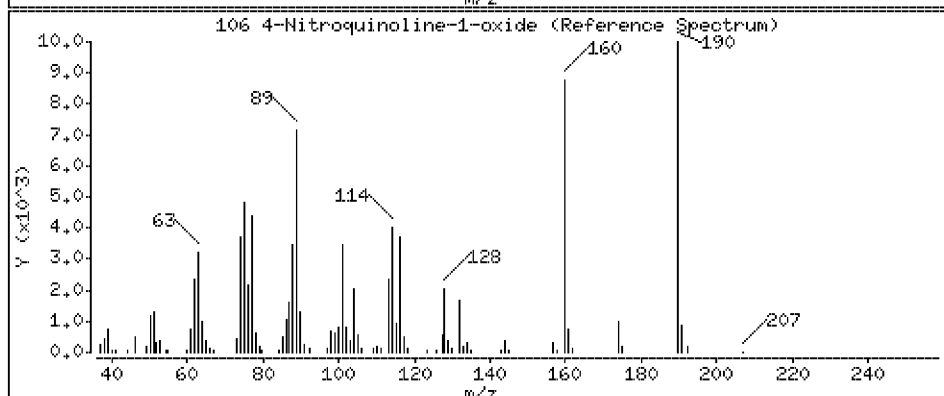
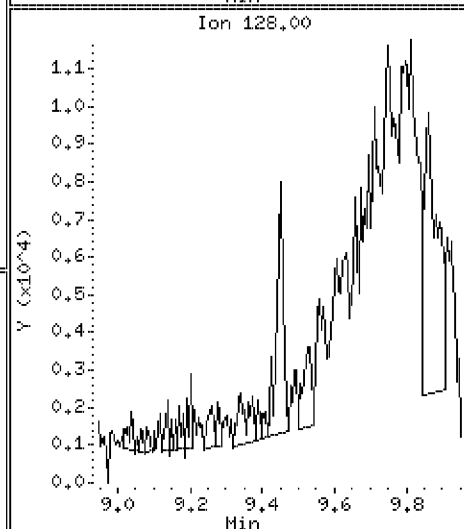
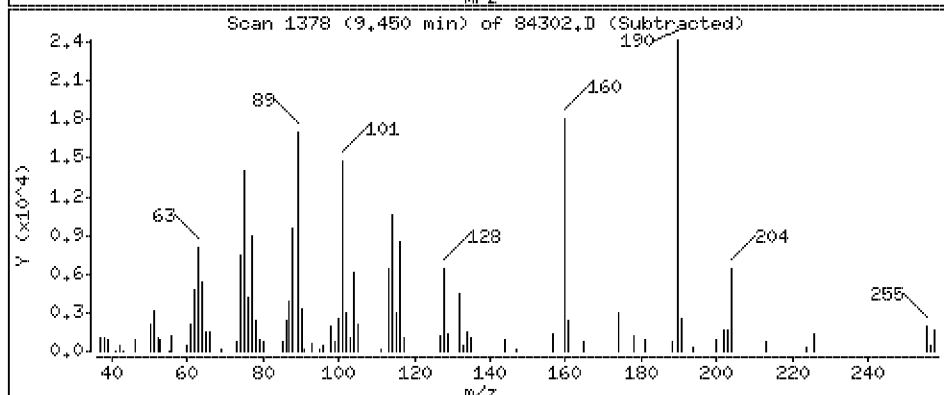
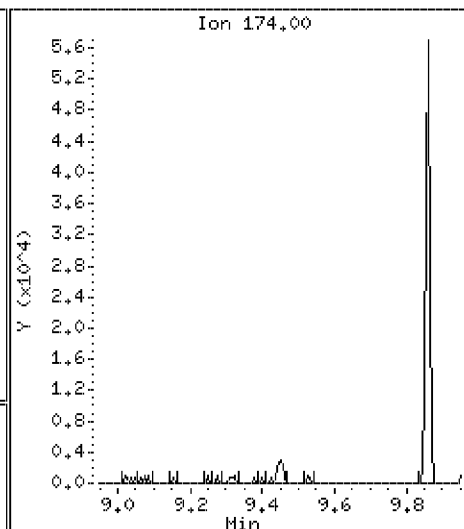
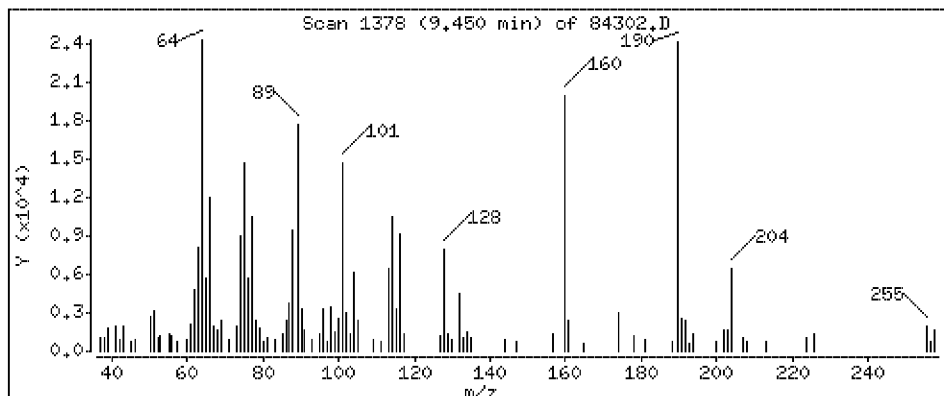
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

106 4-Nitroquinoline-1-oxide

Concentration: 448 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

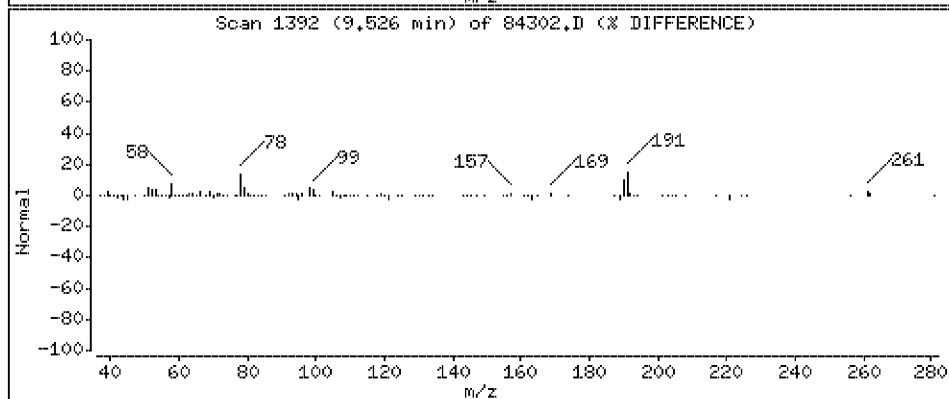
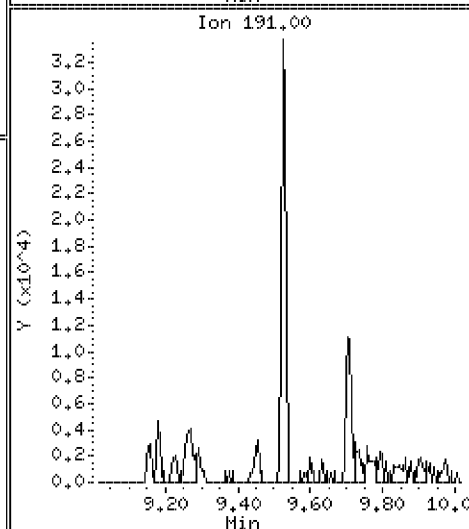
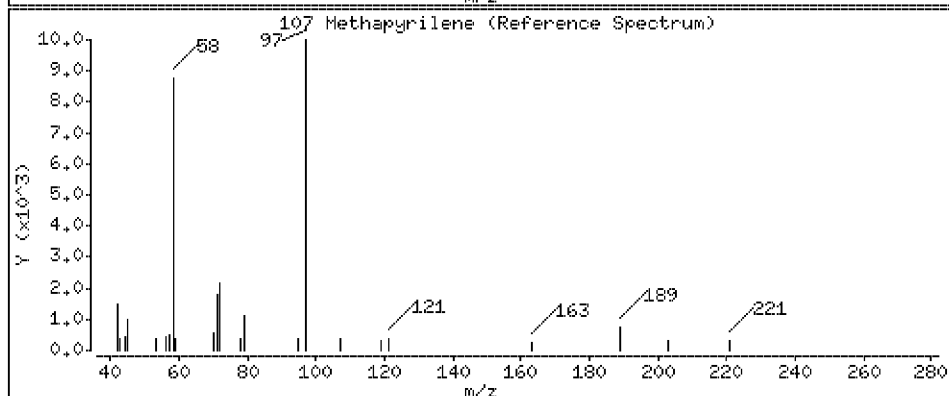
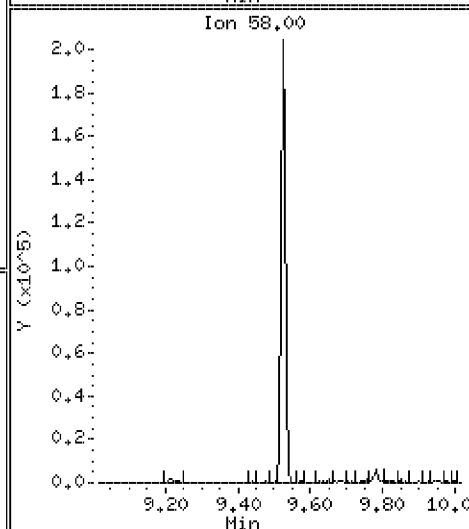
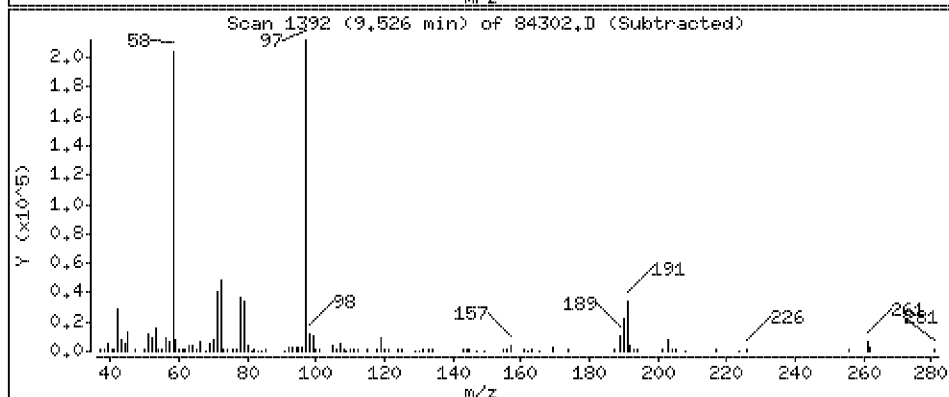
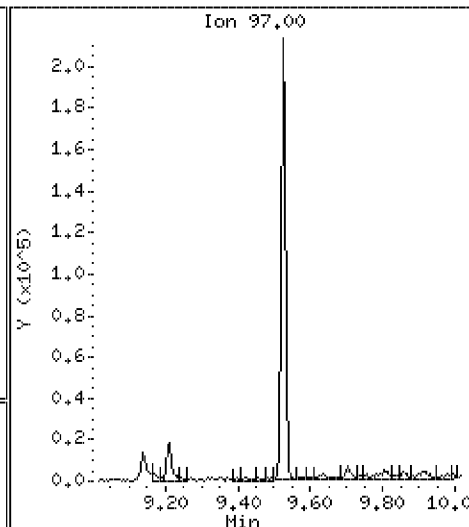
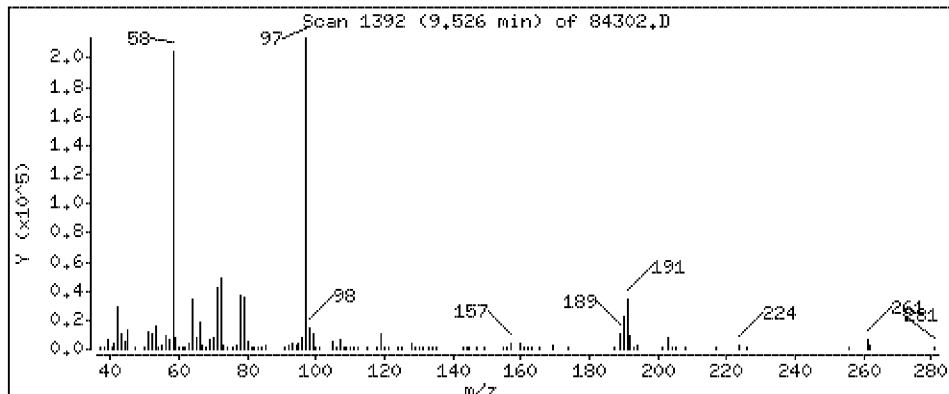
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

107 Methapyrilene

Concentration: 22300 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

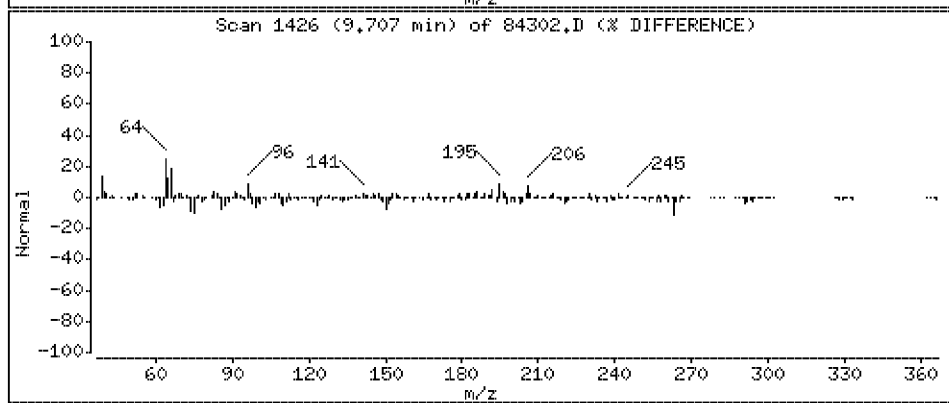
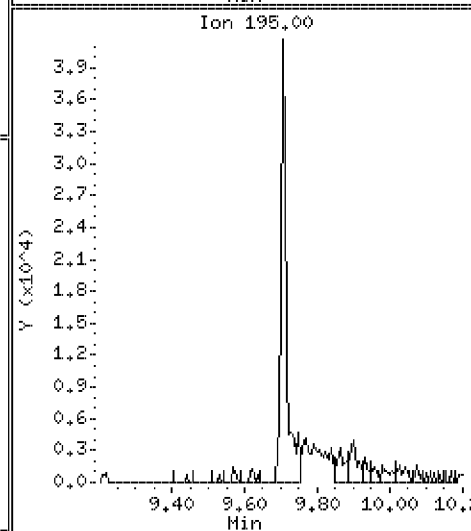
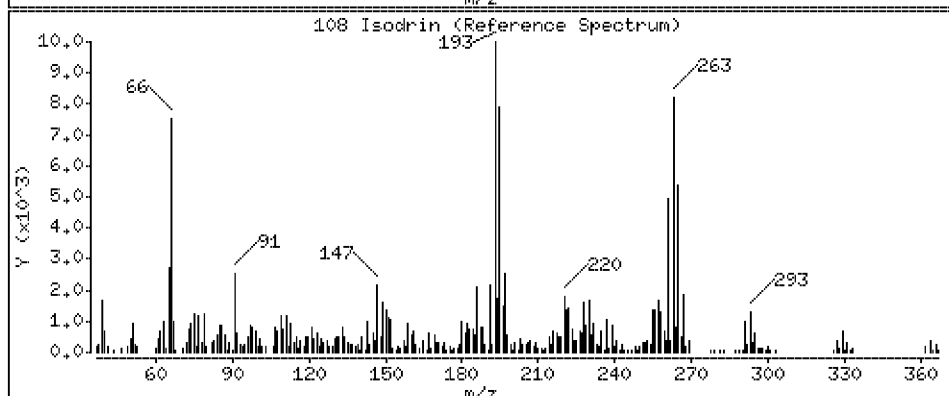
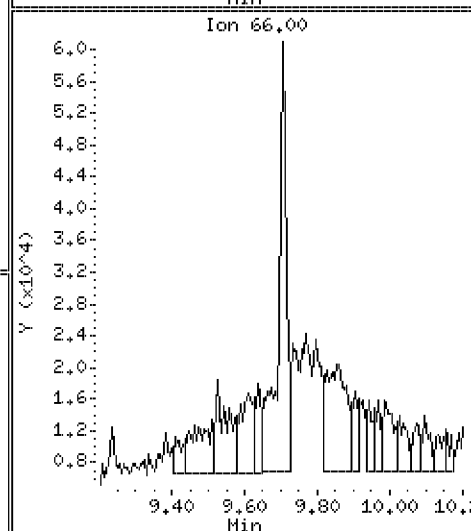
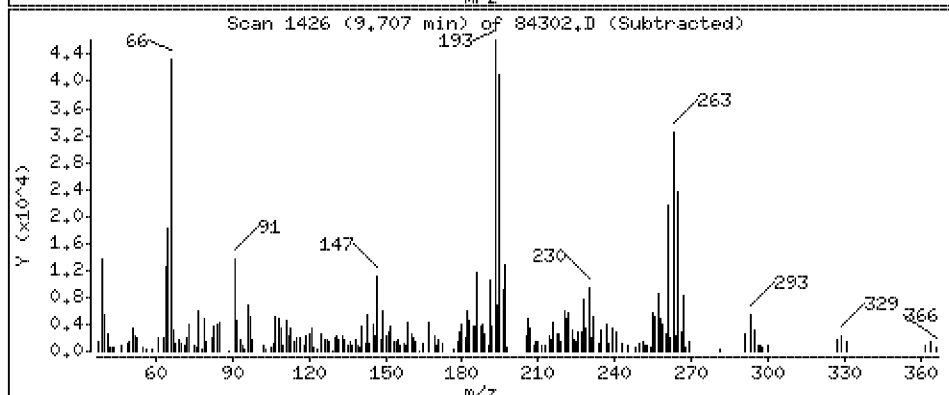
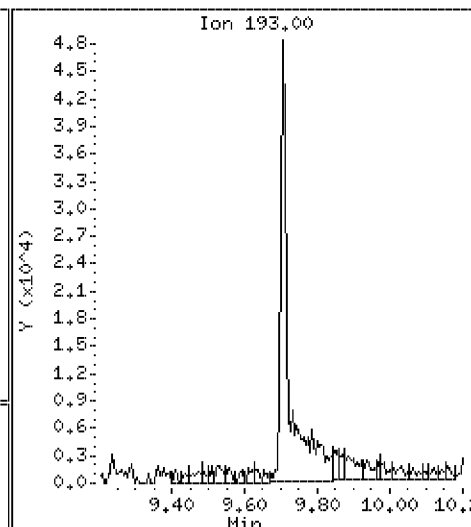
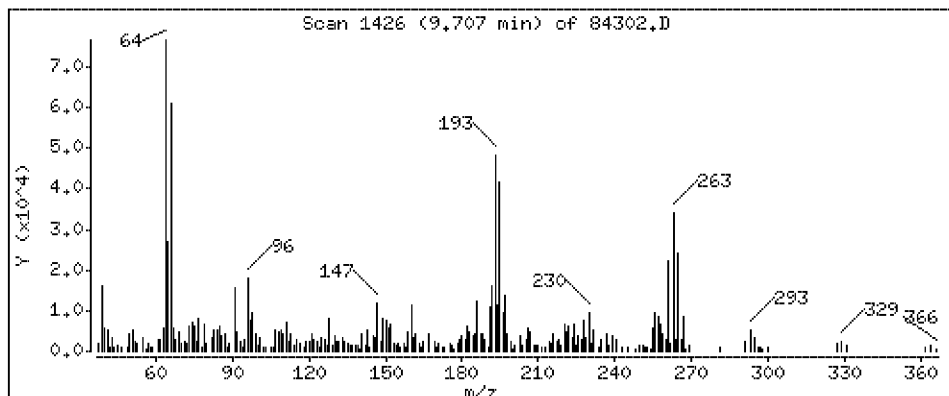
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

108 Isodrin

Concentration: 1100 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

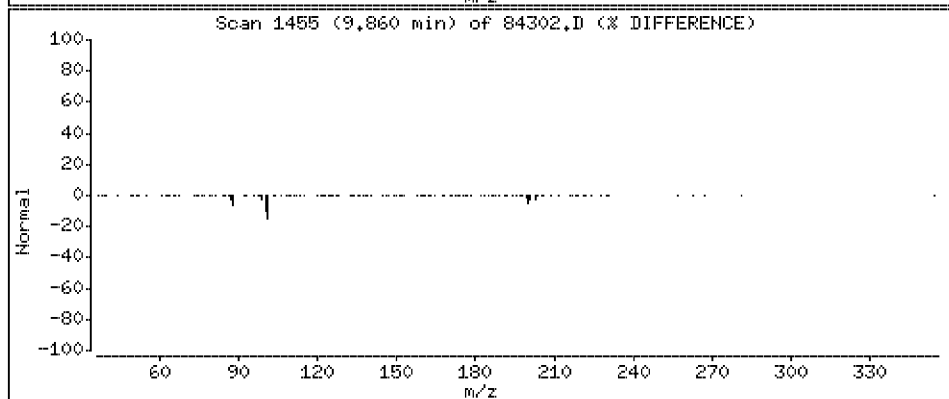
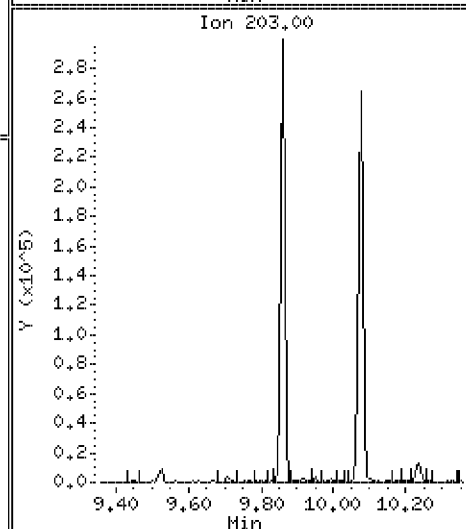
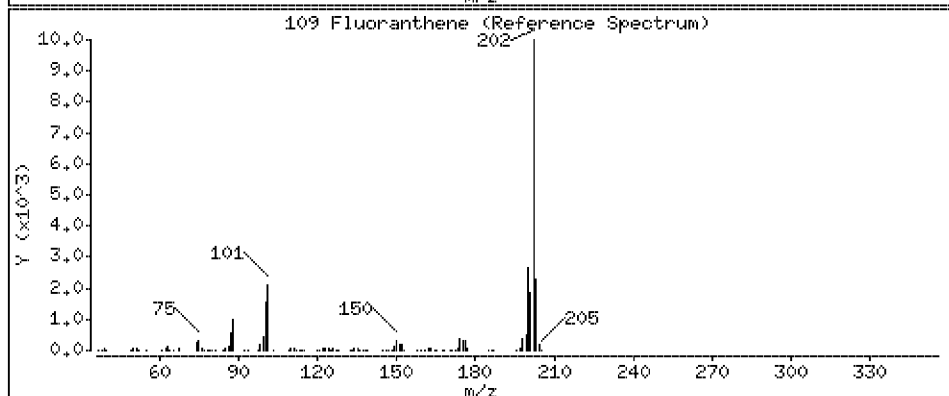
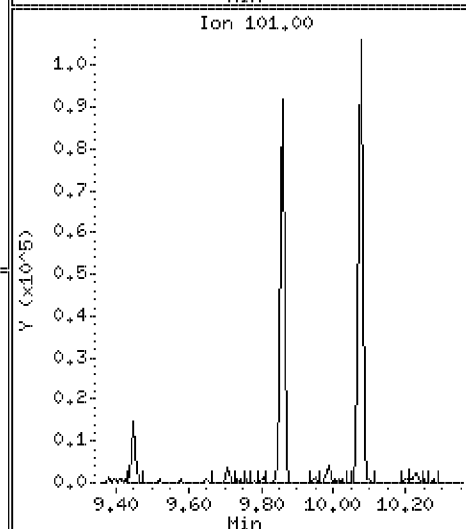
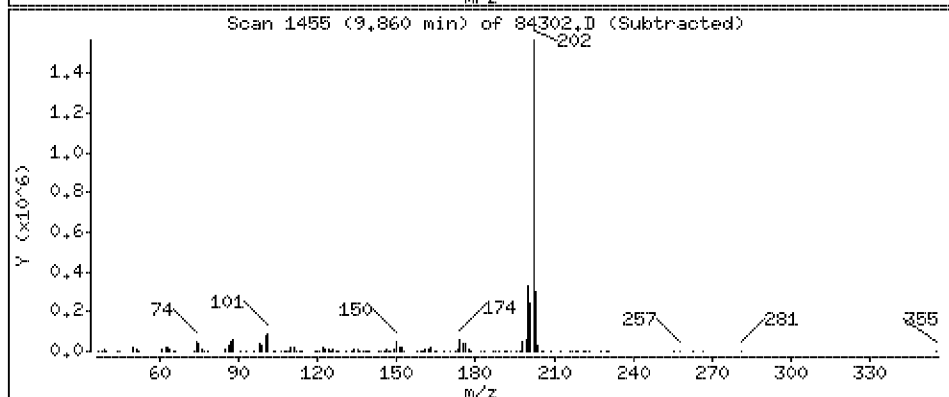
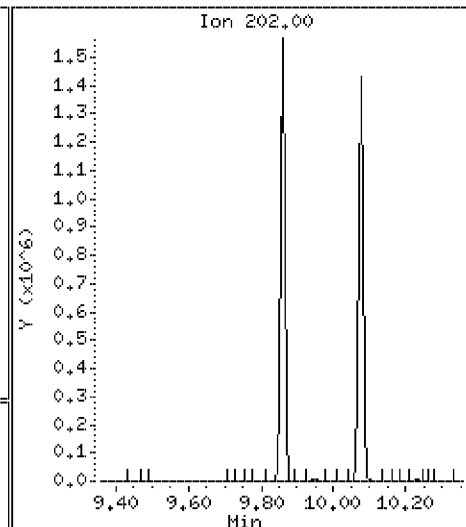
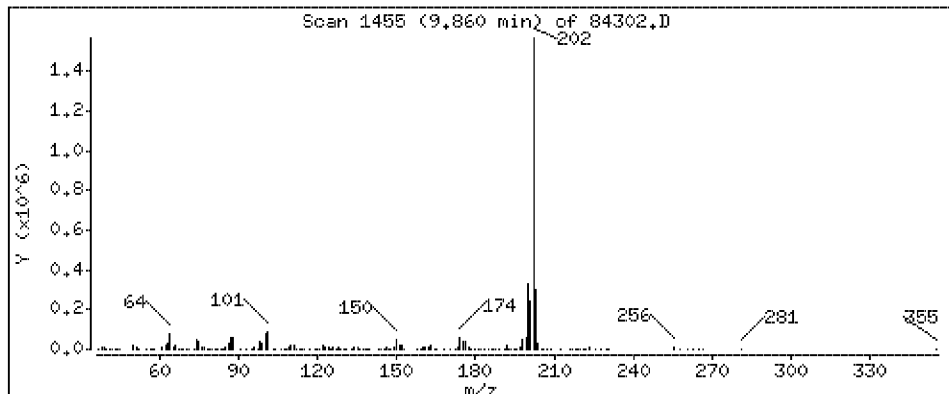
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

109 Fluoranthene

Concentration: 1840 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

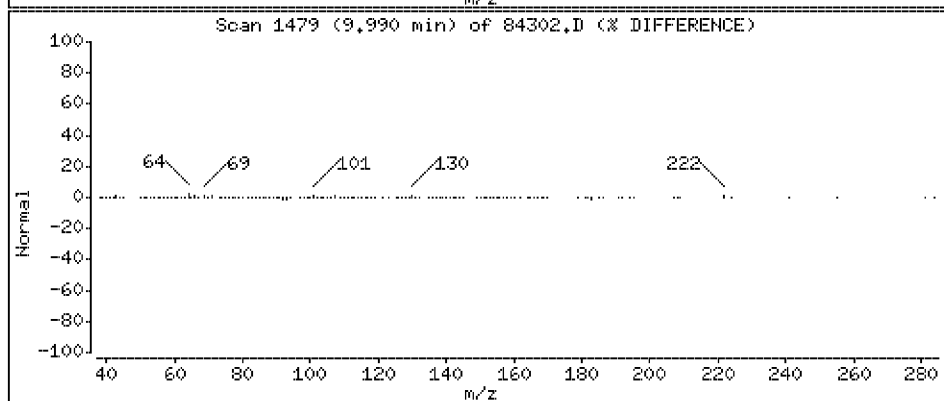
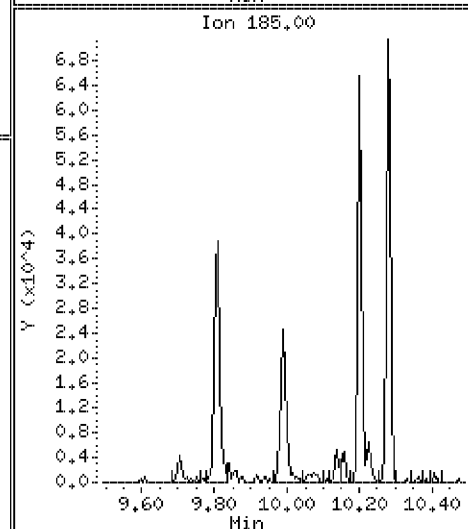
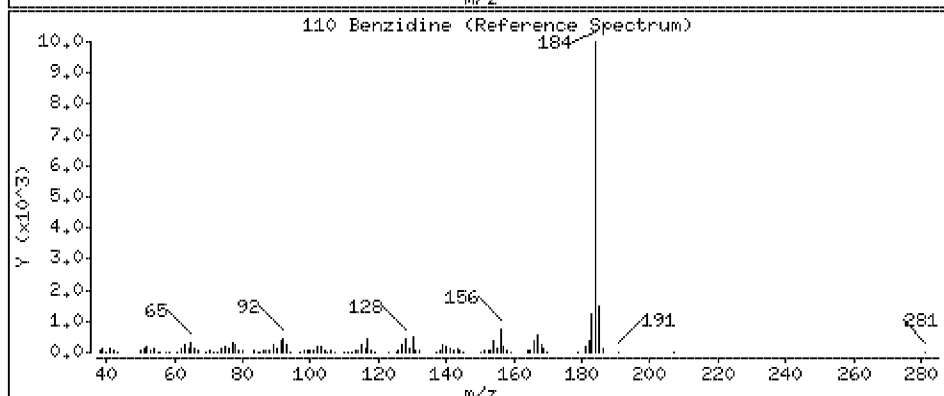
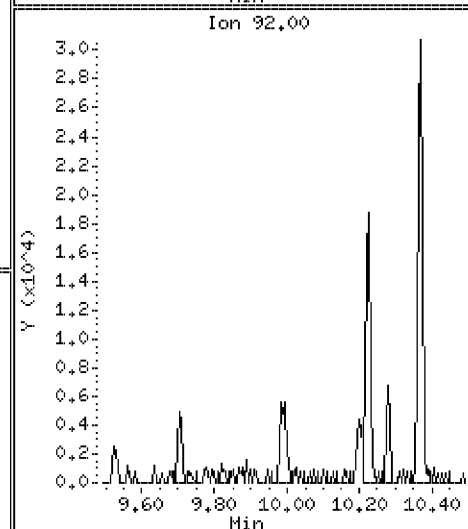
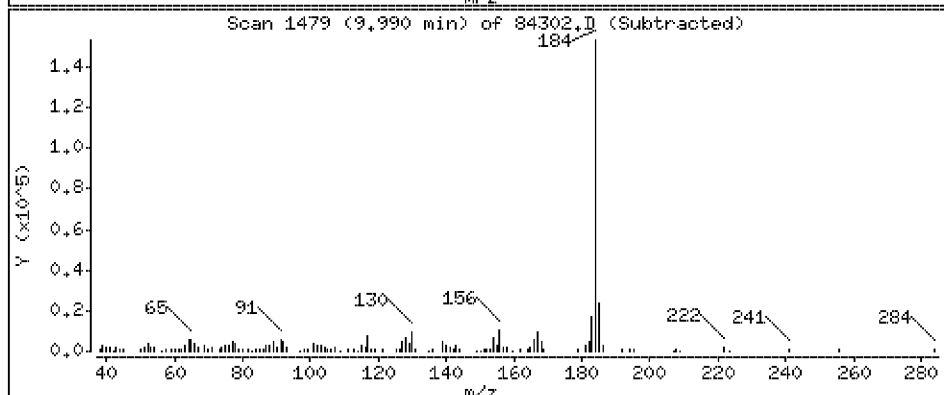
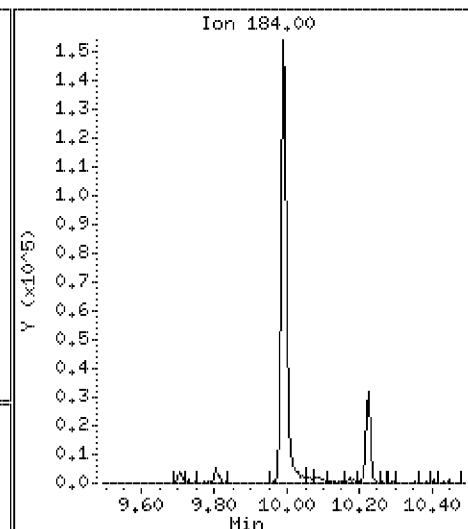
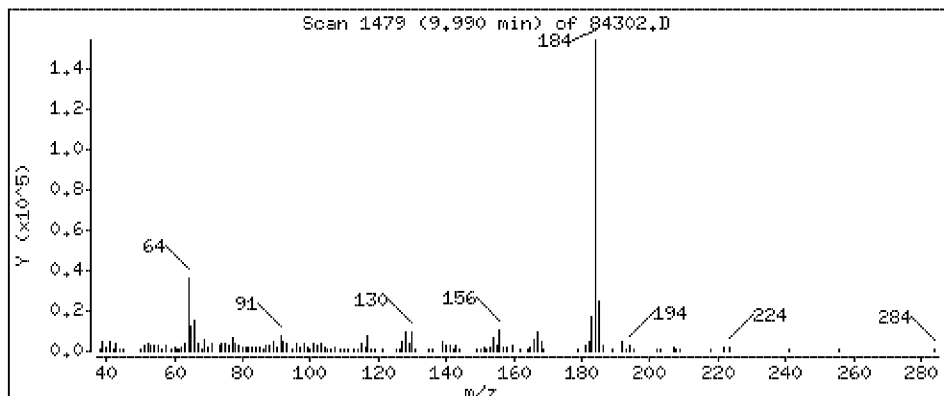
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

110 Benzidine

Concentration: 300 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

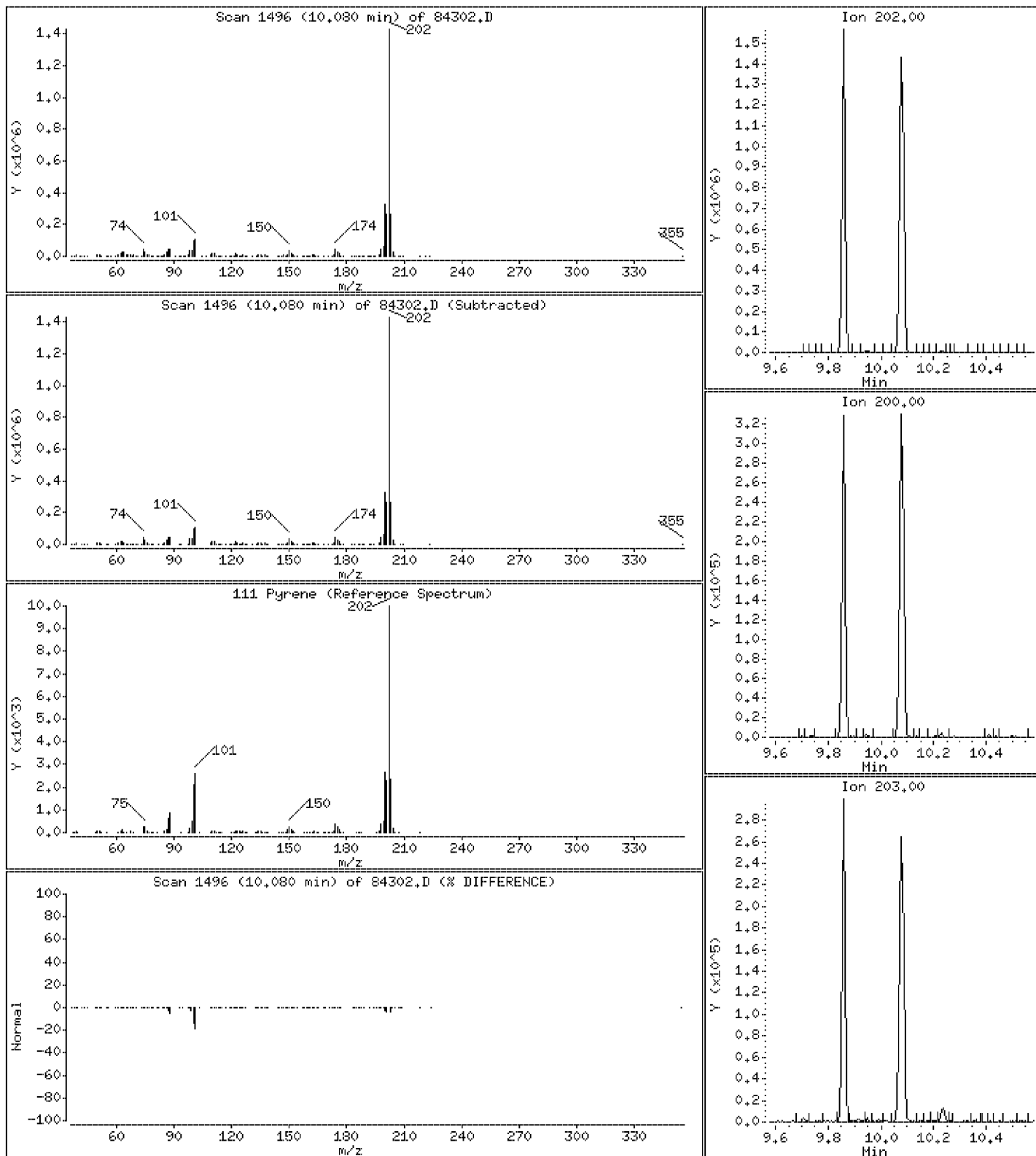
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

111 Pyrene

Concentration: 1770 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

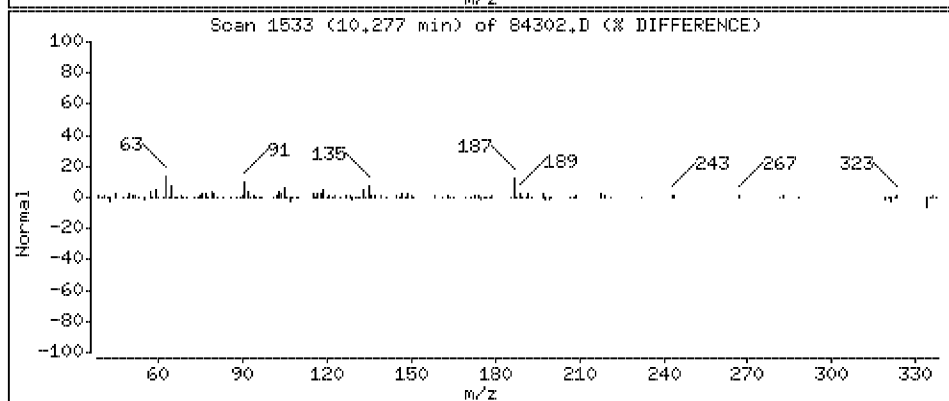
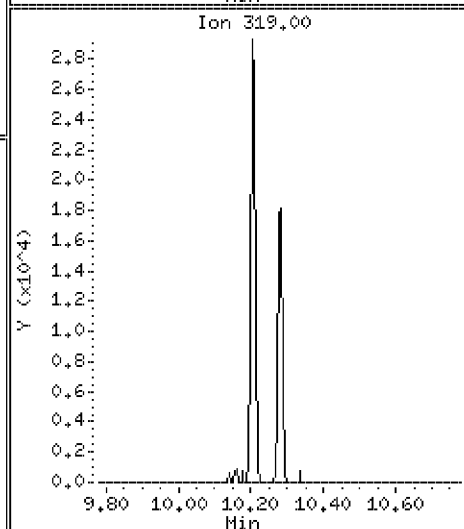
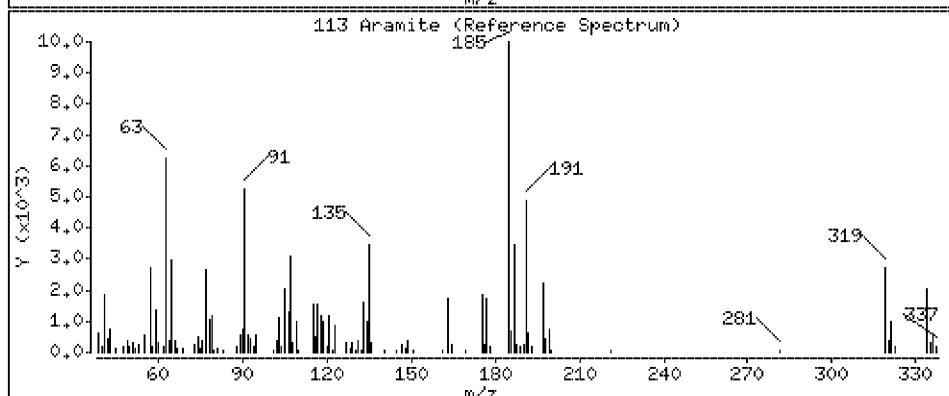
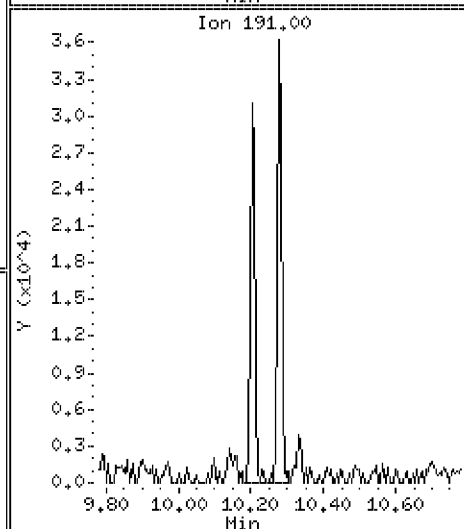
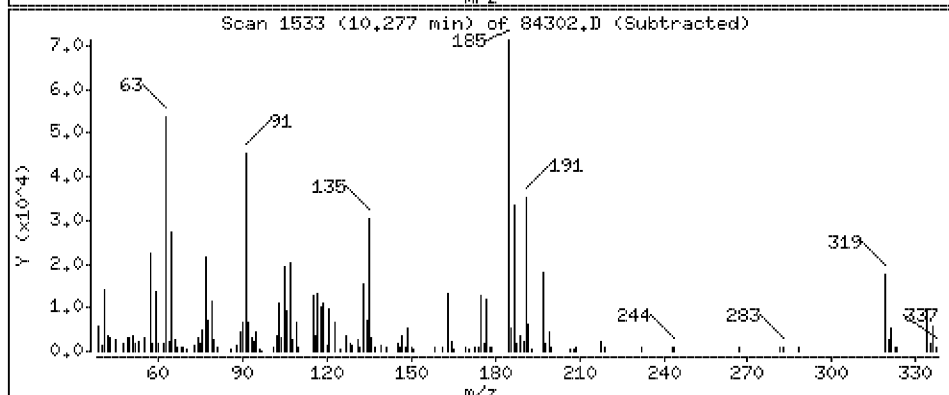
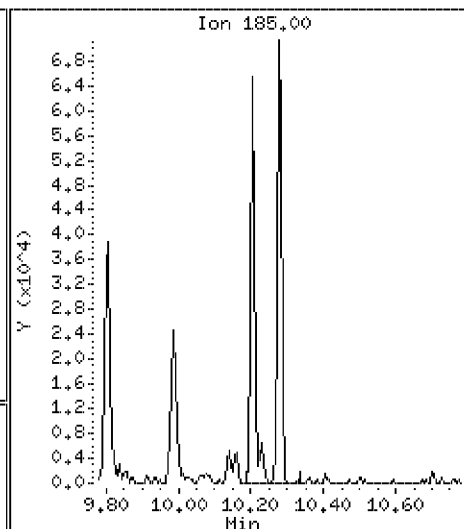
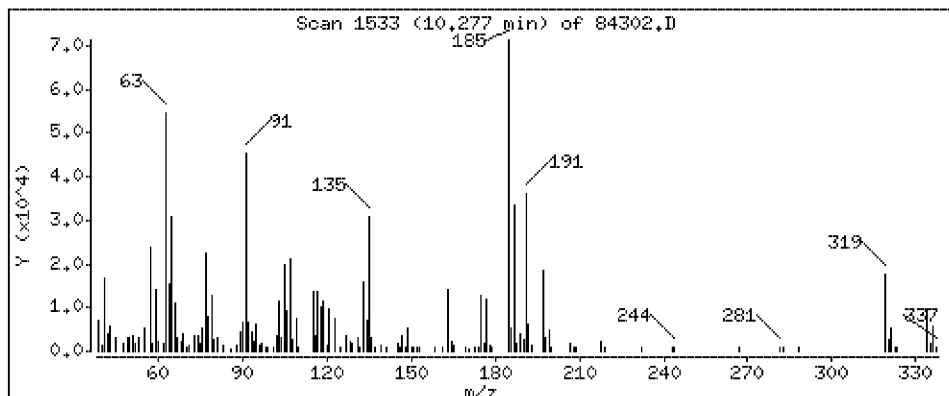
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

113 Aramite

Concentration: 1290 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

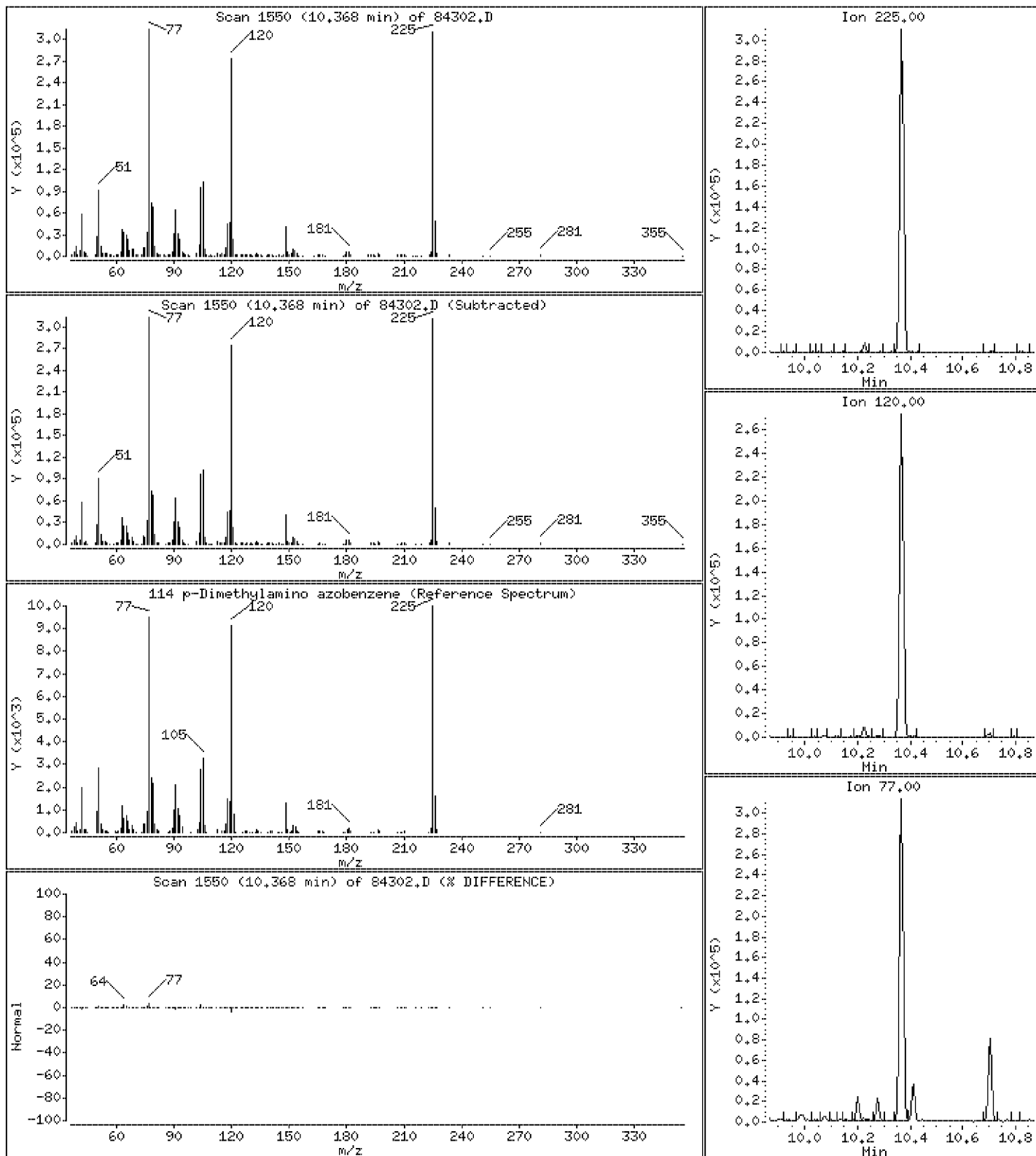
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

114 p-Dimethylamino azobenzene

Concentration: 1180 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

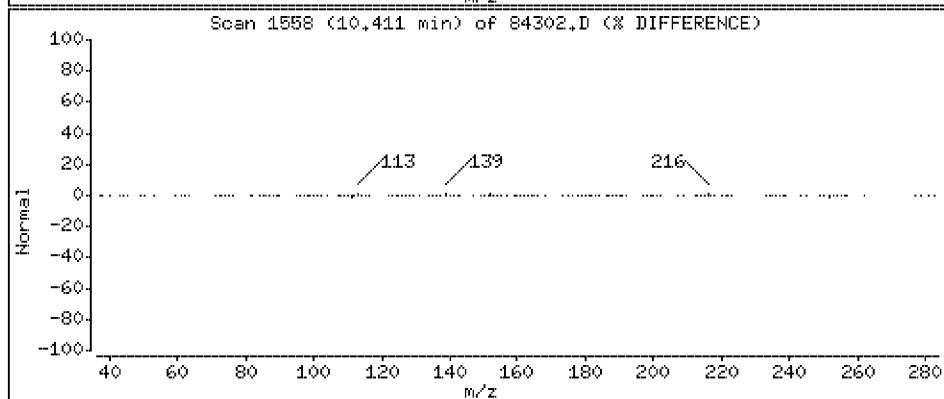
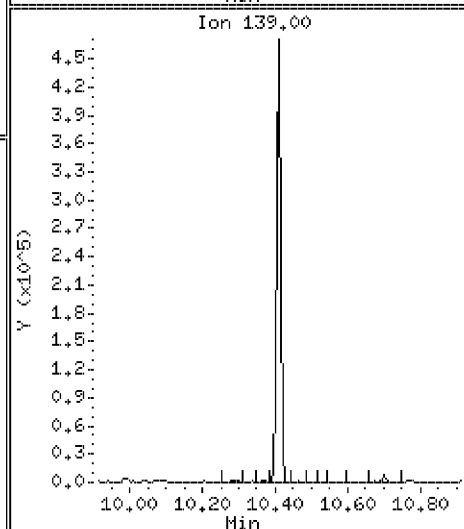
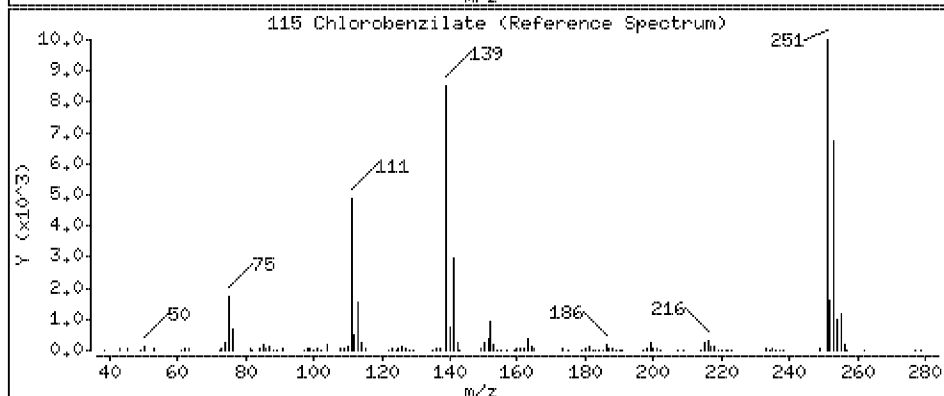
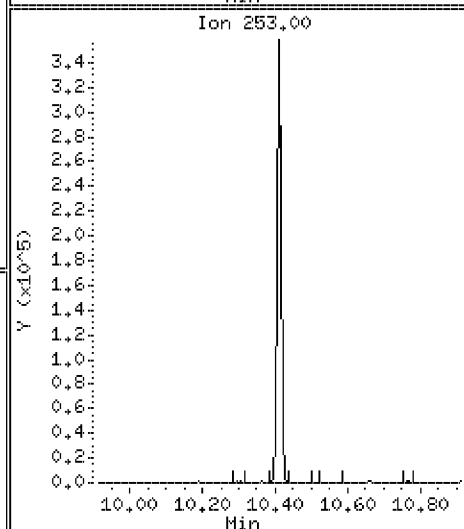
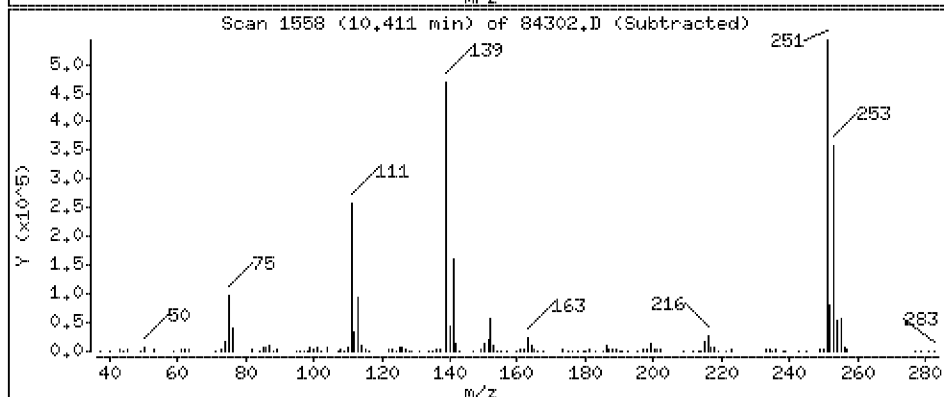
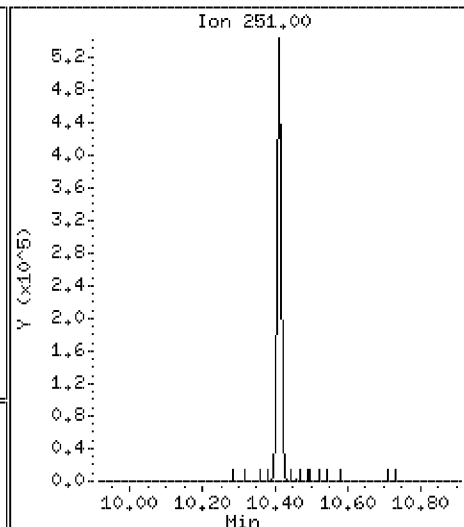
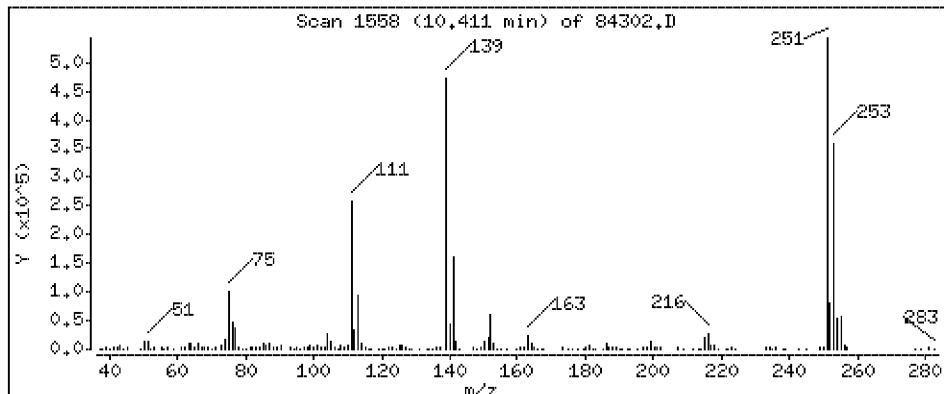
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

115 Chlorobenzilate

Concentration: 1280 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

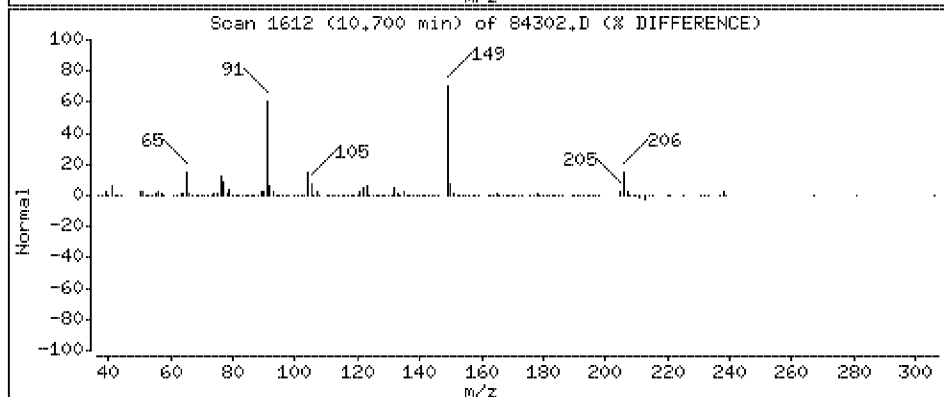
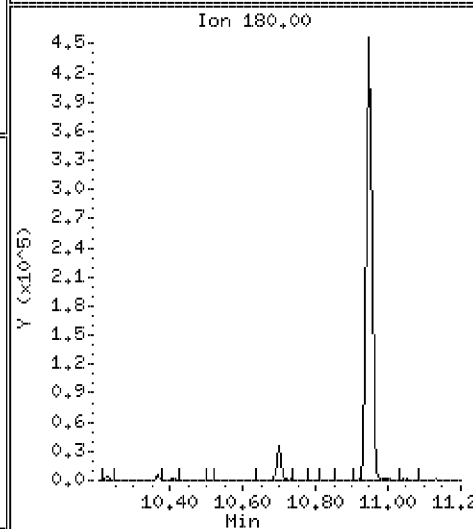
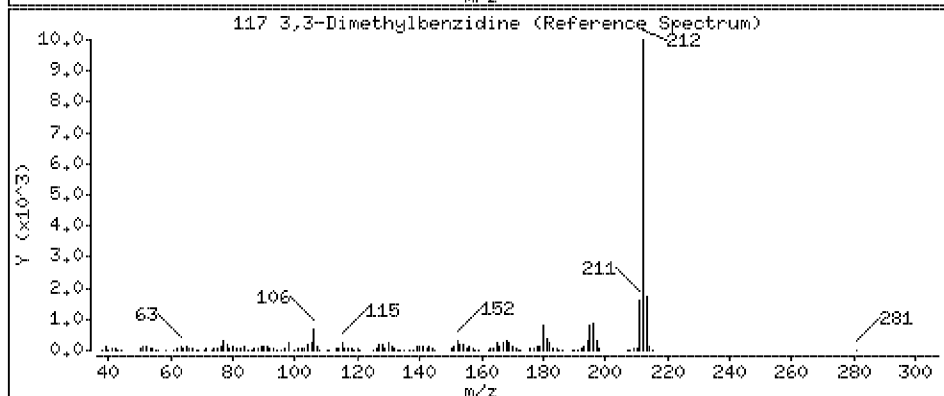
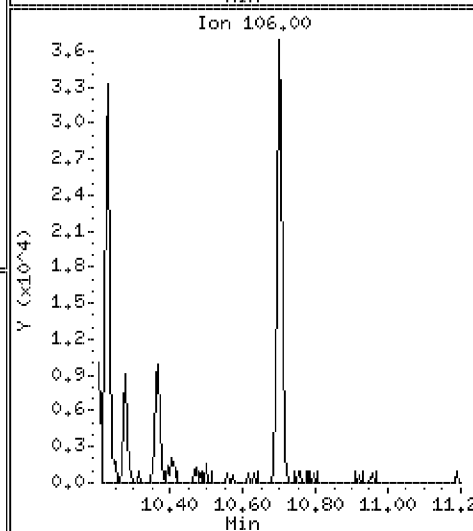
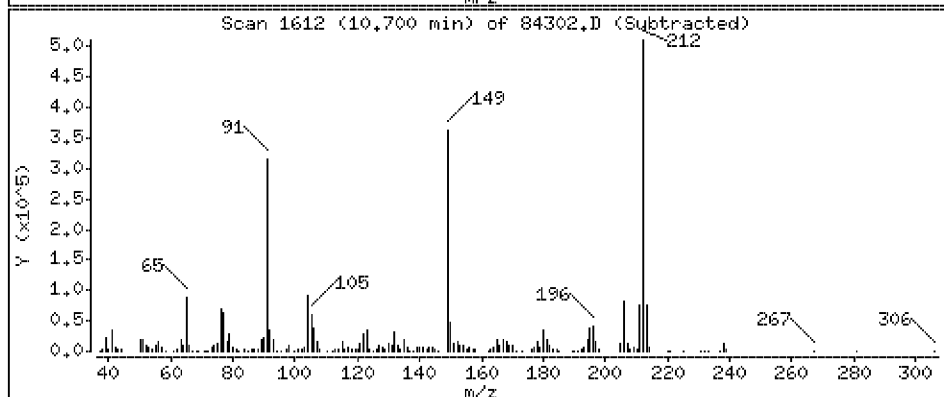
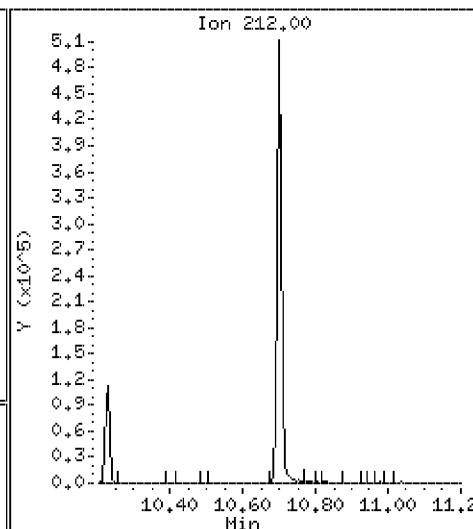
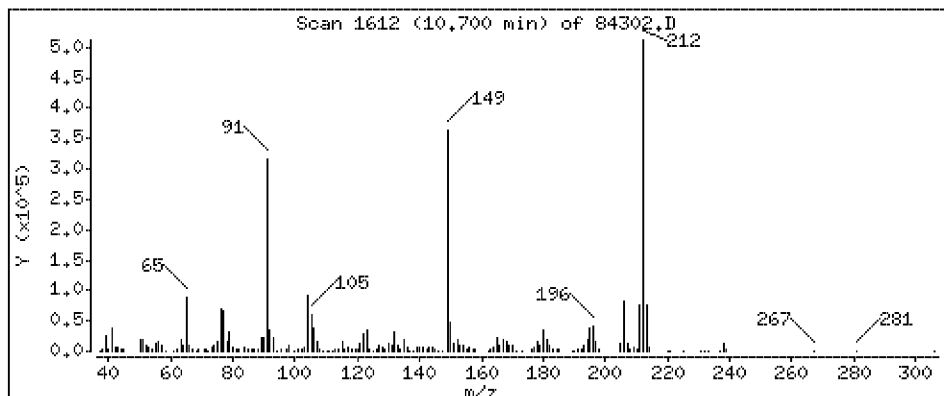
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

117 3,3-Dimethylbenzidine

Concentration: 677 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

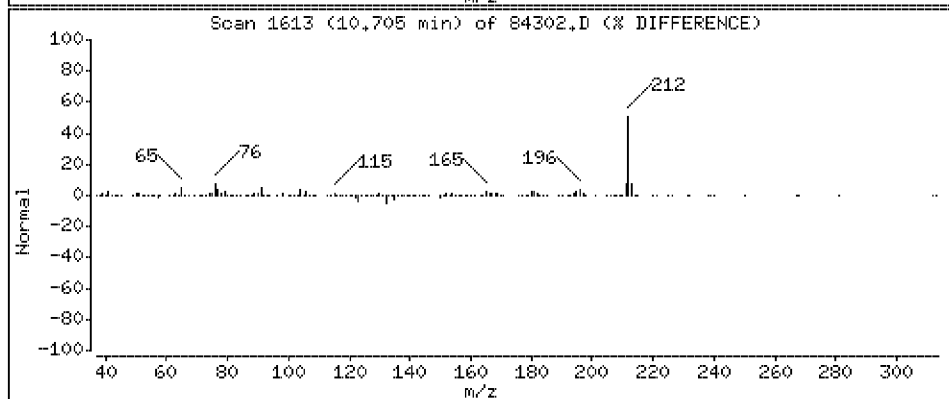
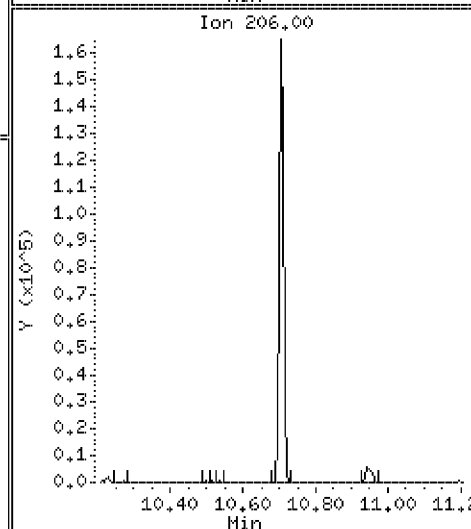
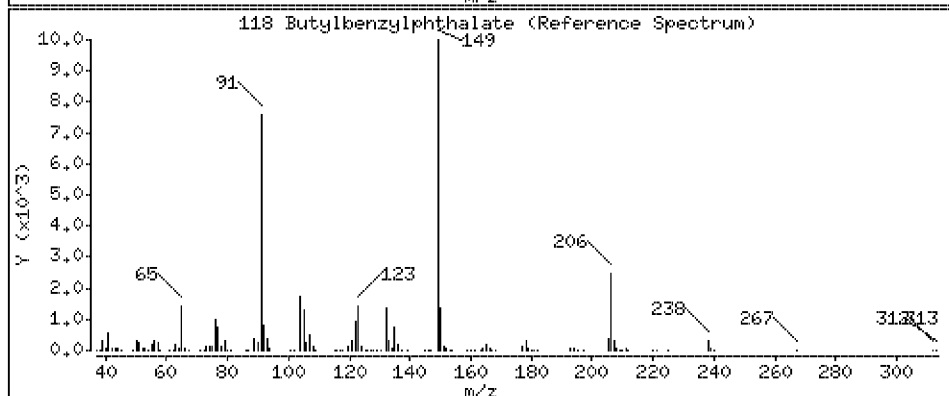
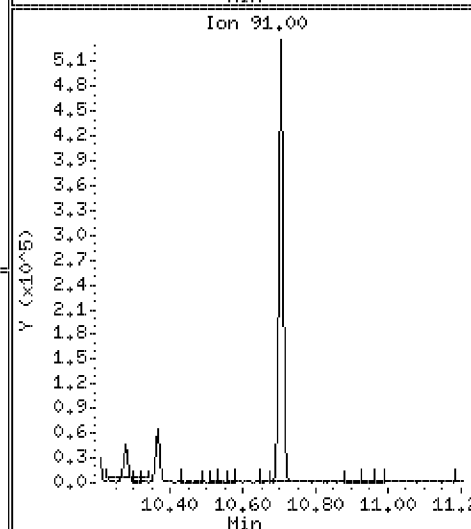
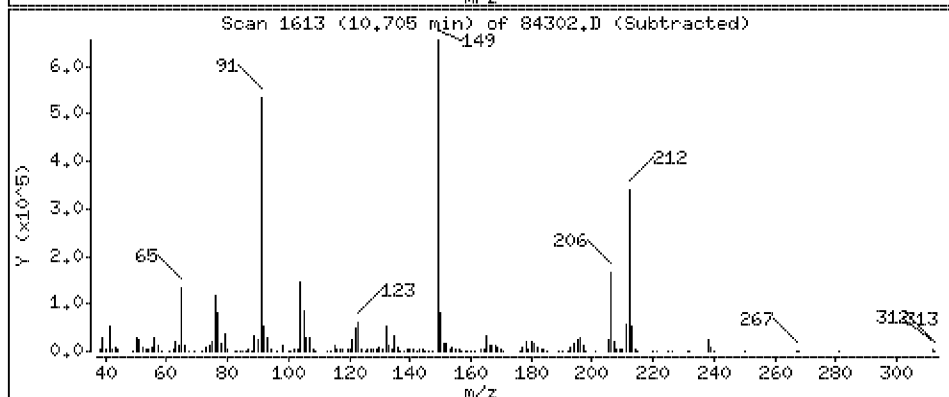
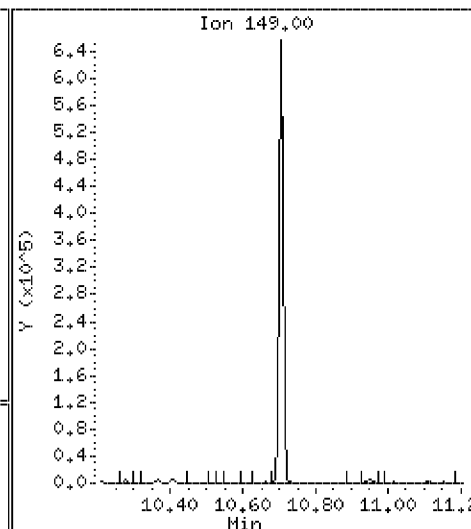
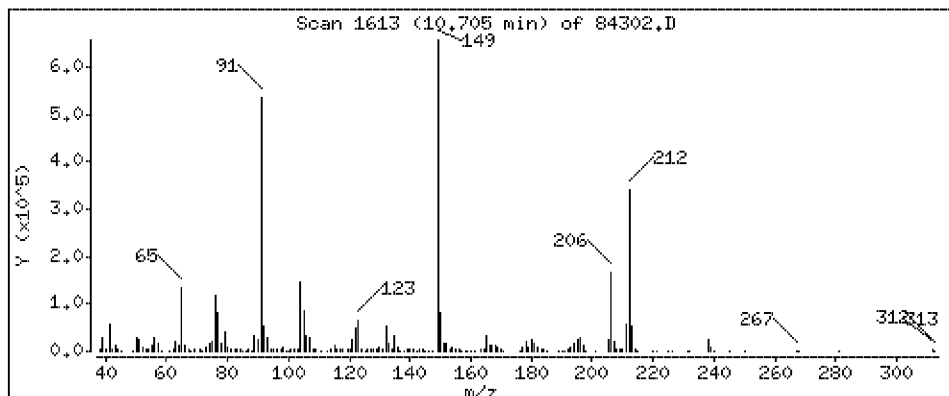
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

118 Butylbenzylphthalate

Concentration: 1620 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

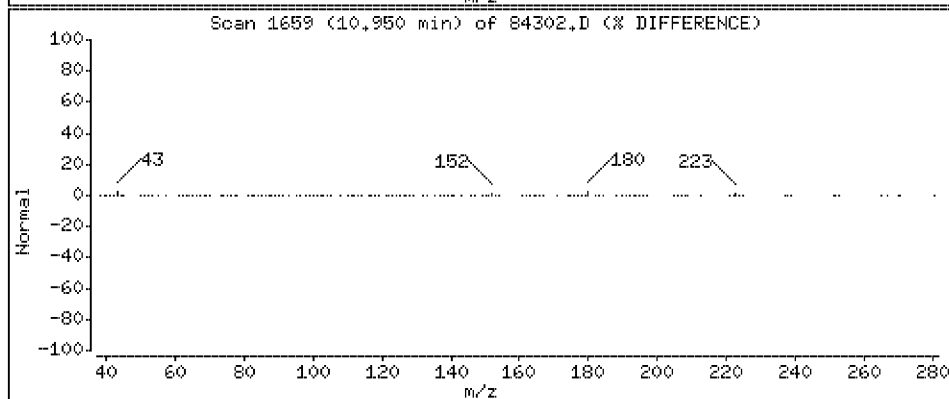
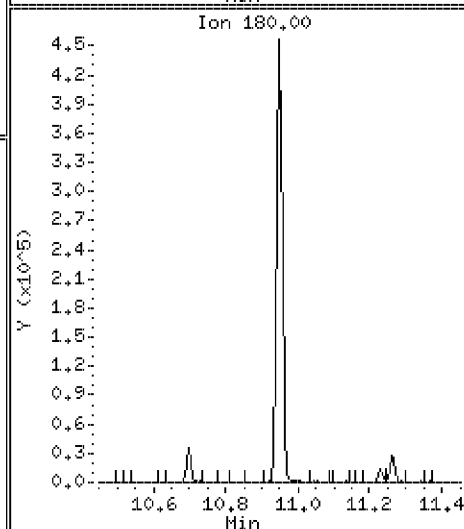
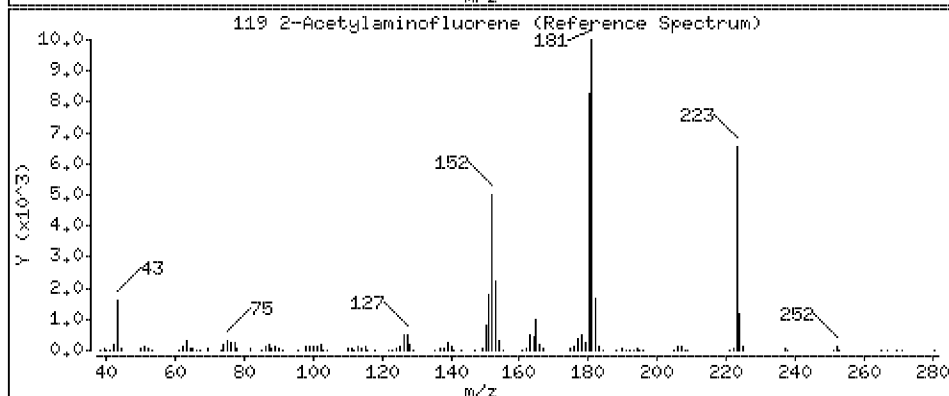
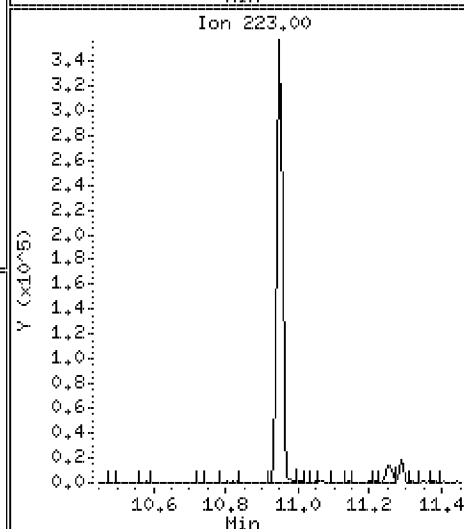
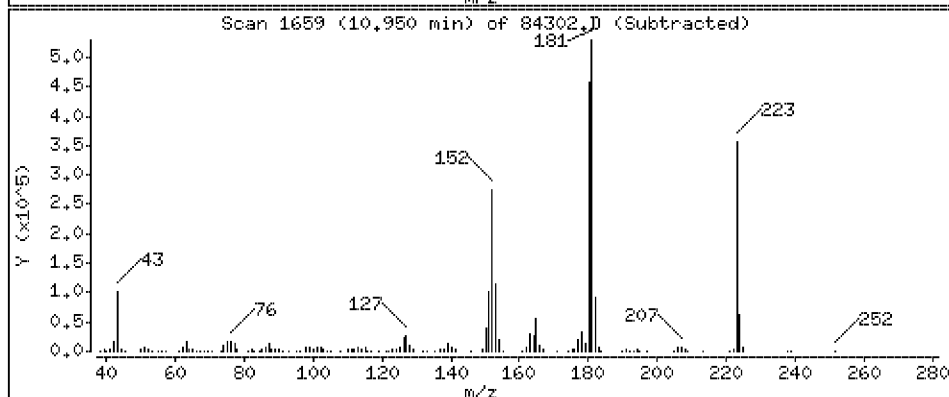
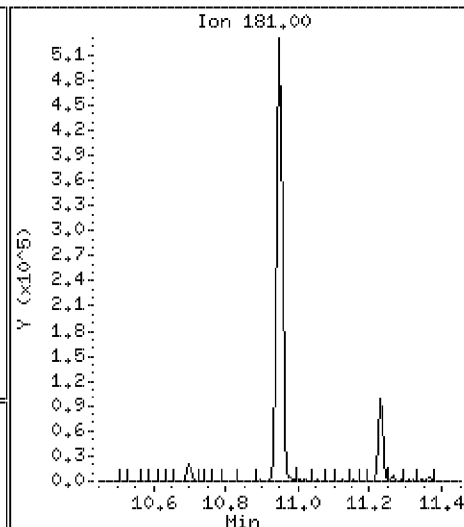
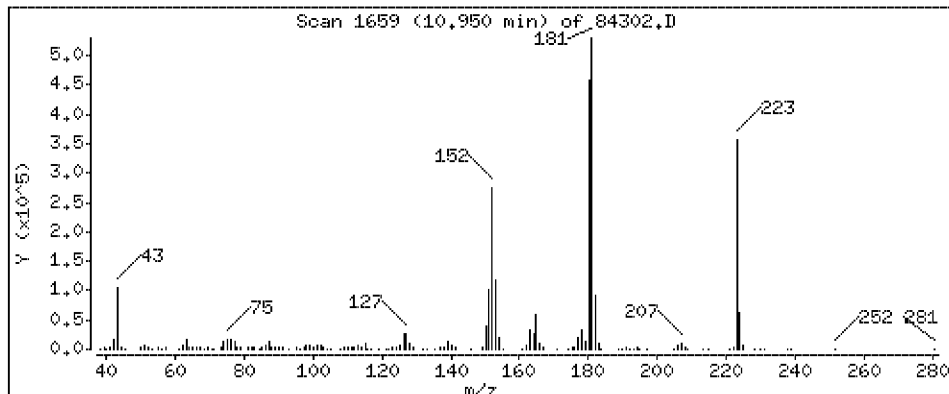
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

119 2-Acetylaminofluorene

Concentration: 1260 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

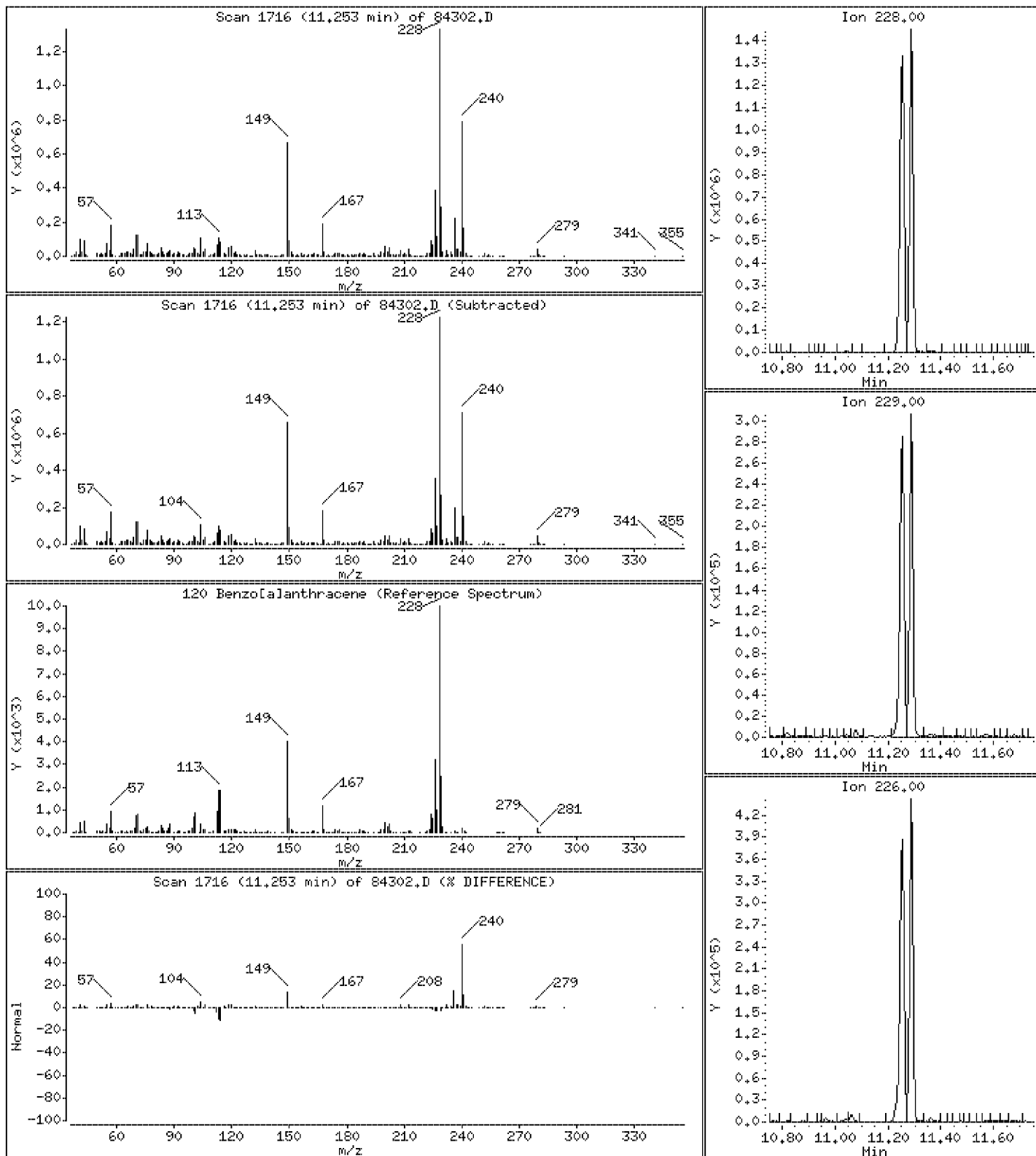
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

120 Benzo[*a*]anthracene

Concentration: 1670 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

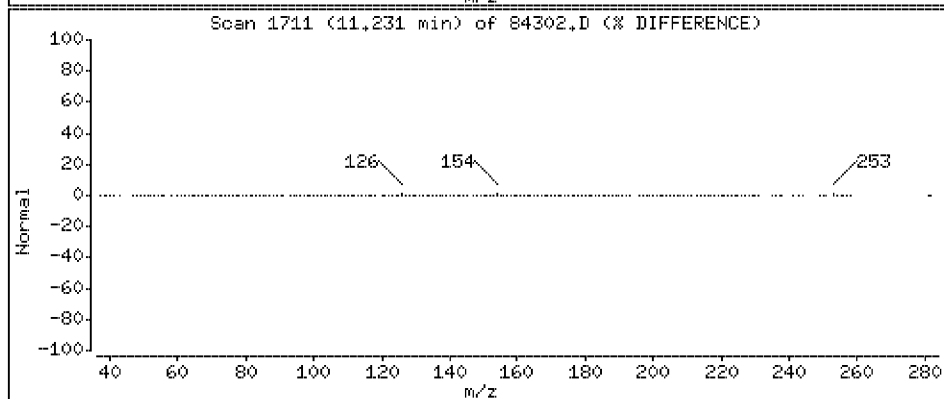
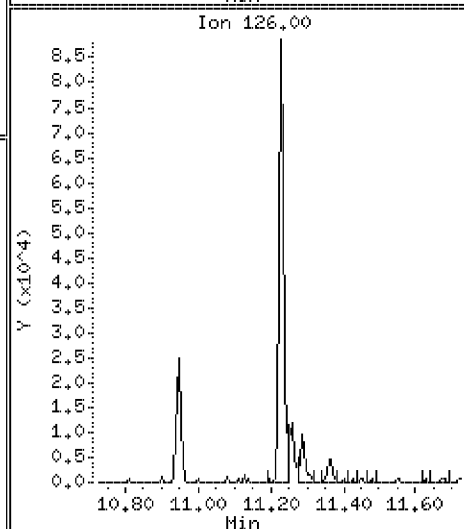
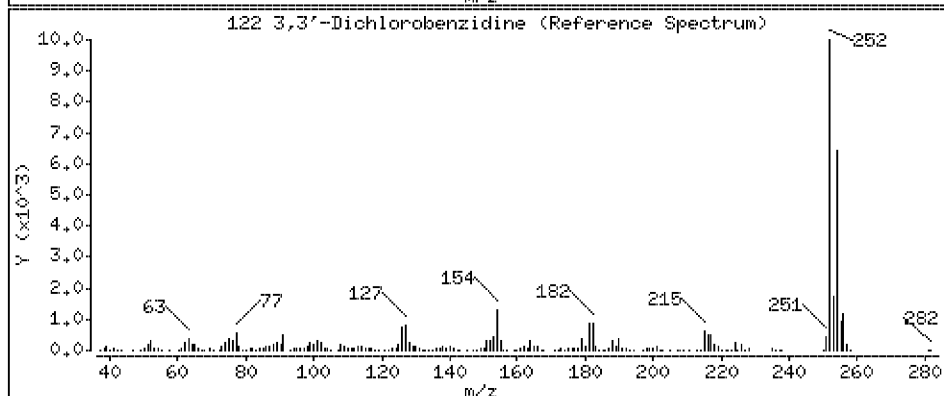
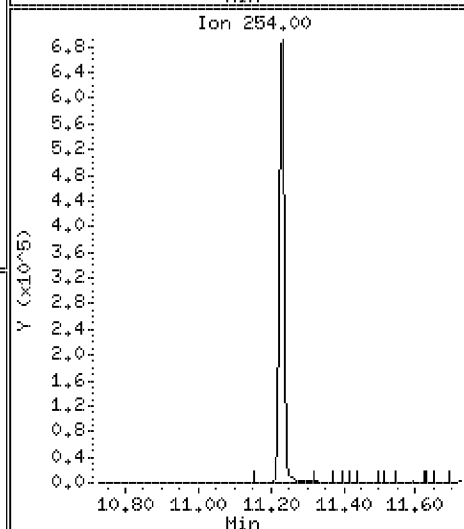
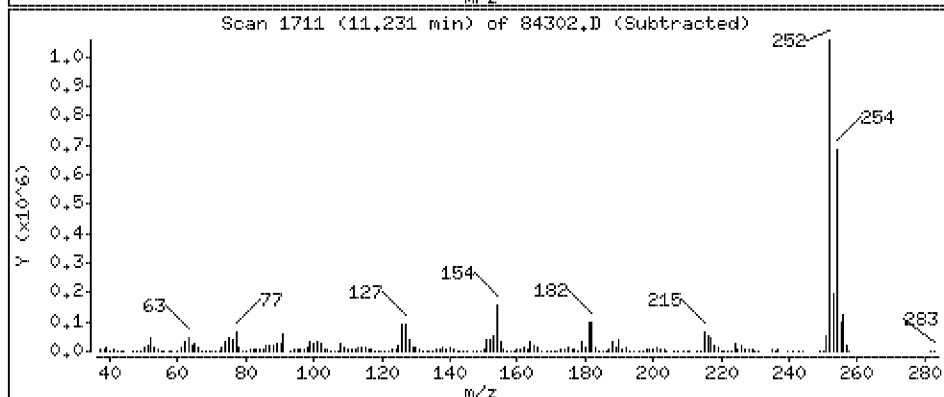
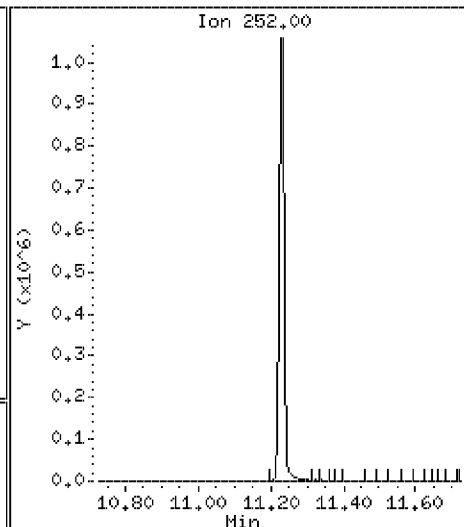
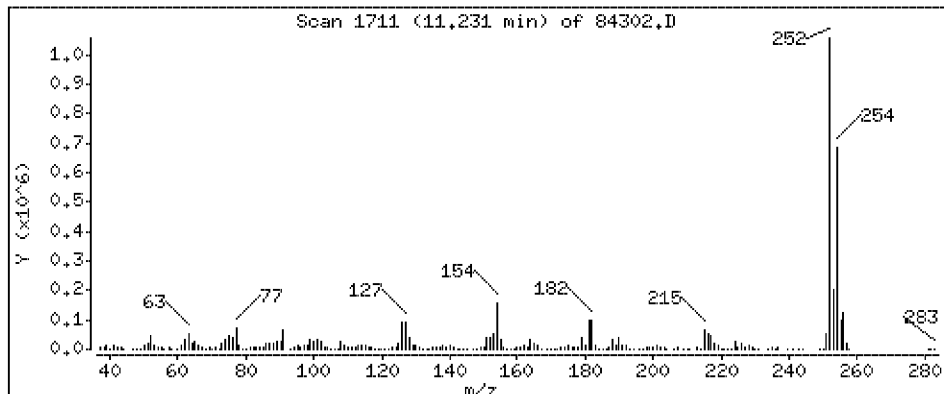
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

122 3,3'-Dichlorobenzidine

Concentration: 2420 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

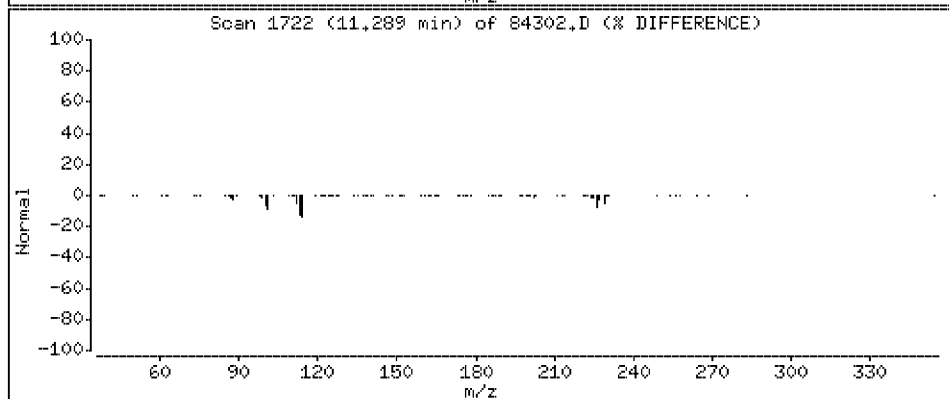
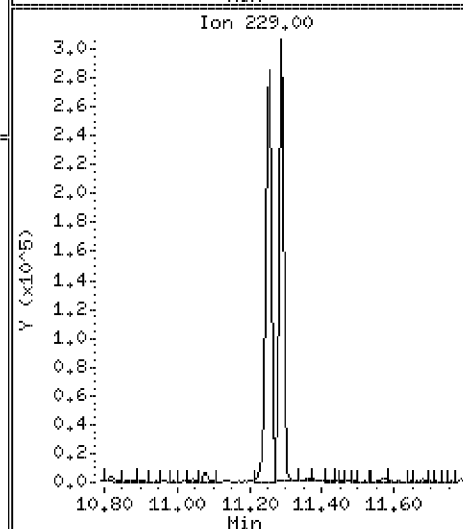
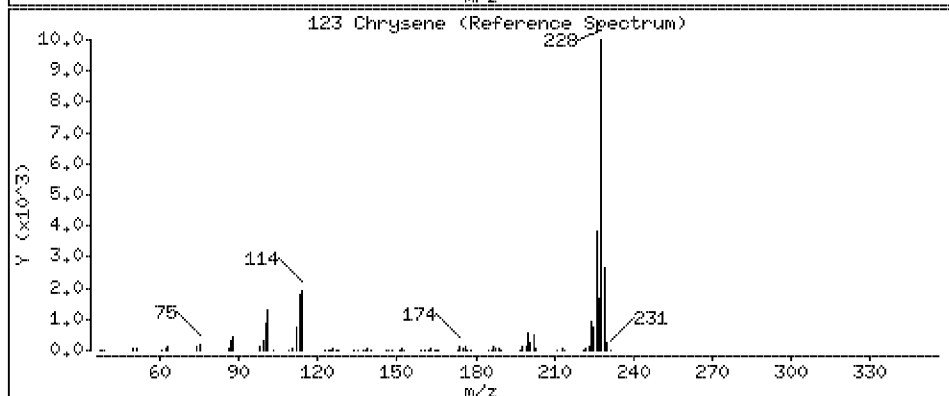
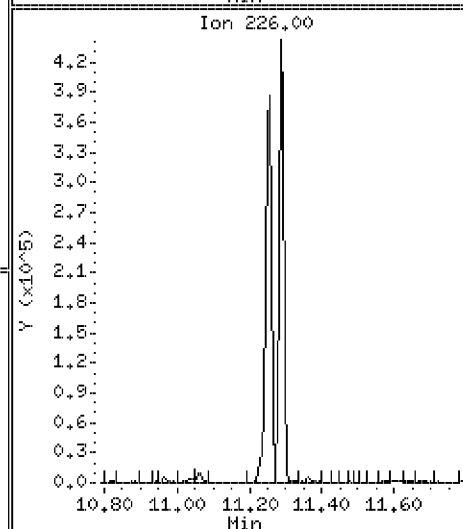
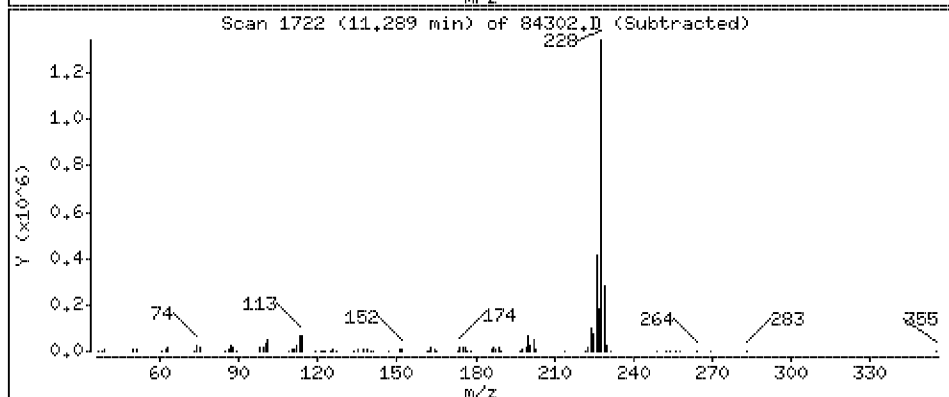
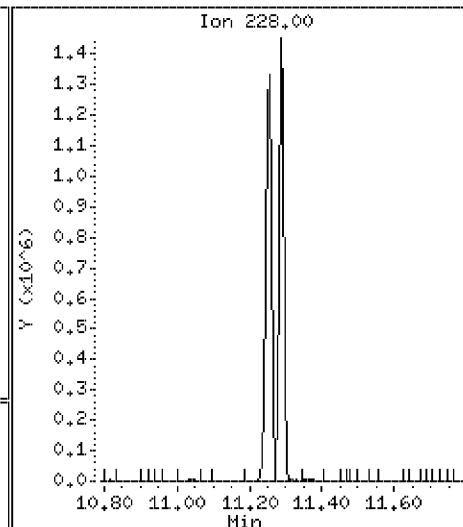
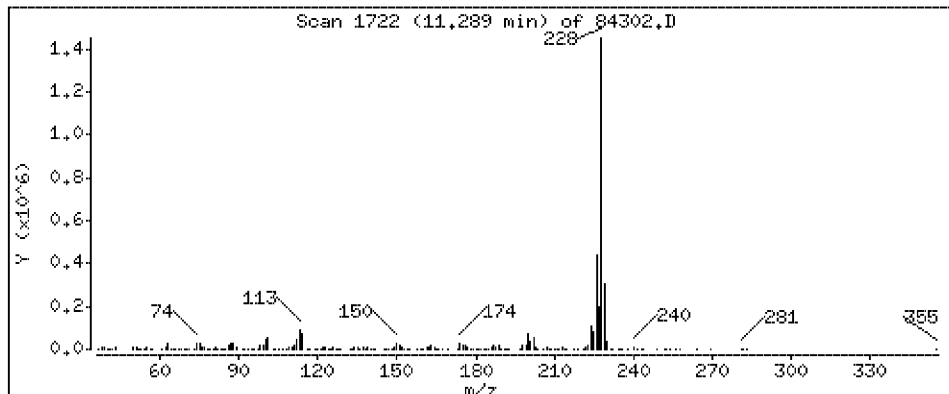
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

123 Chrysene

Concentration: 1660 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

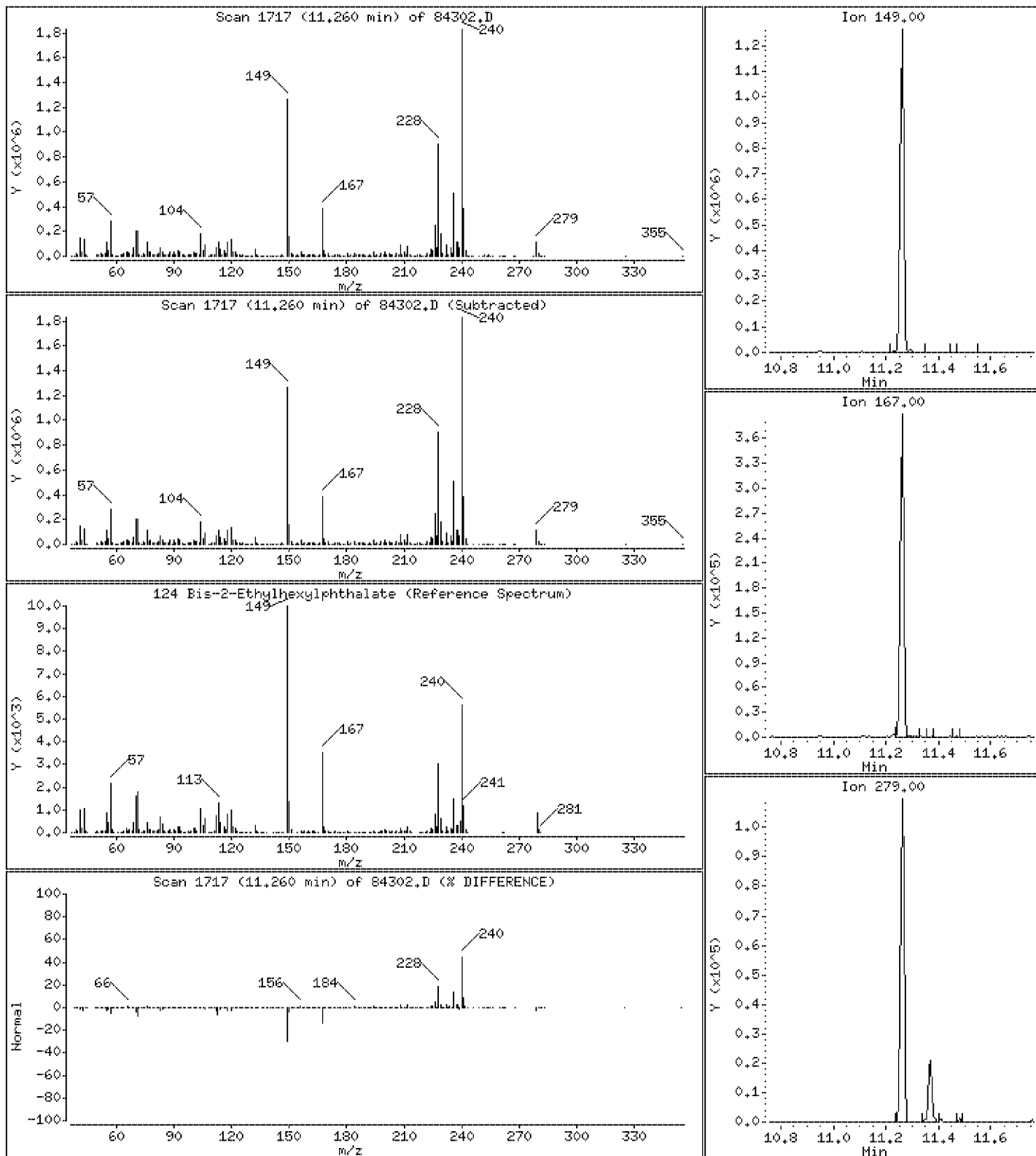
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

124 Bis-2-Ethylhexylphthalate

Concentration: 1710 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

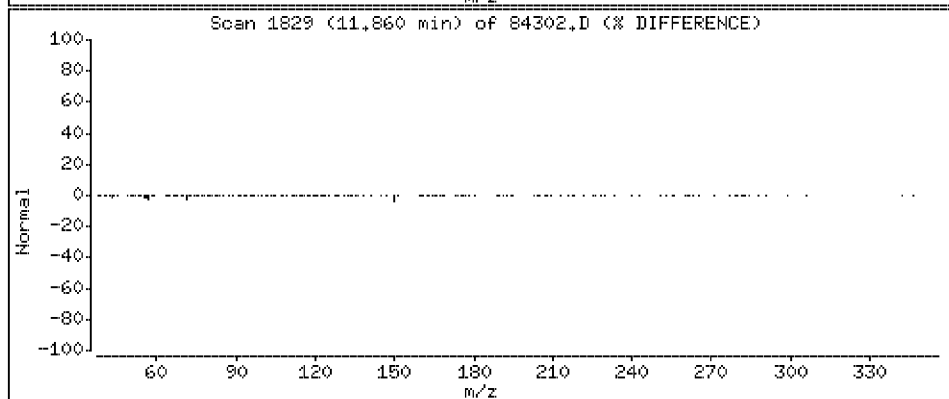
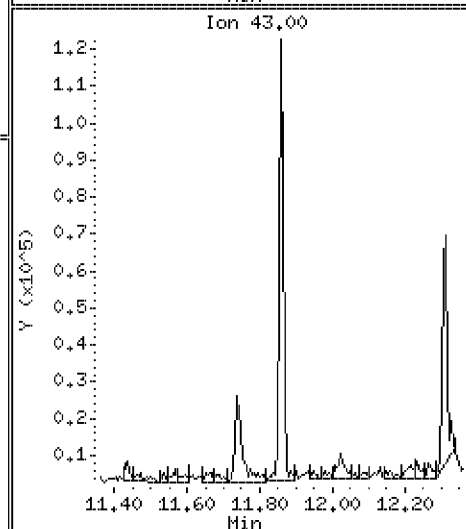
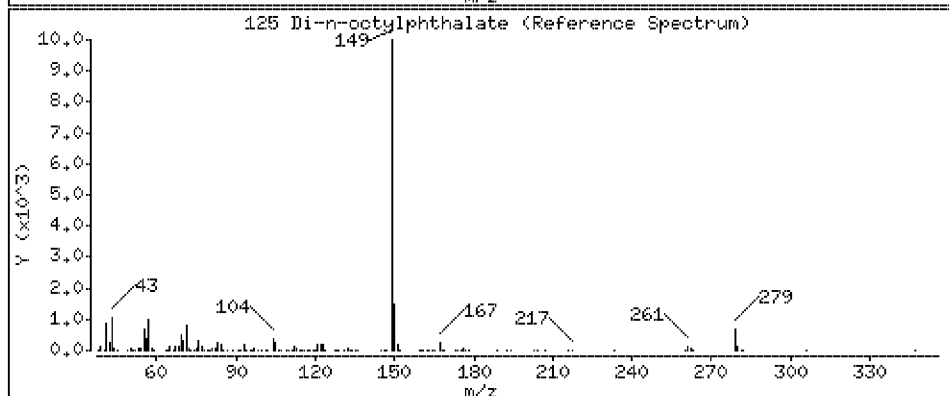
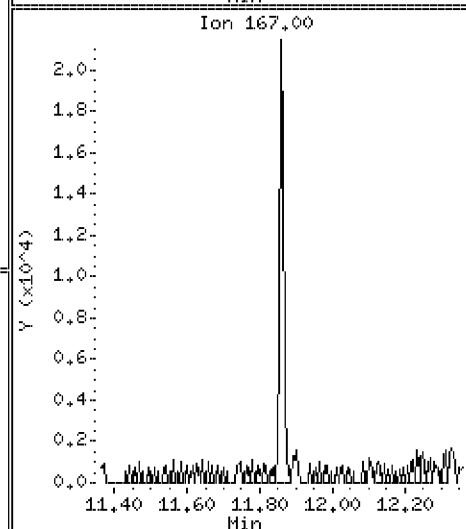
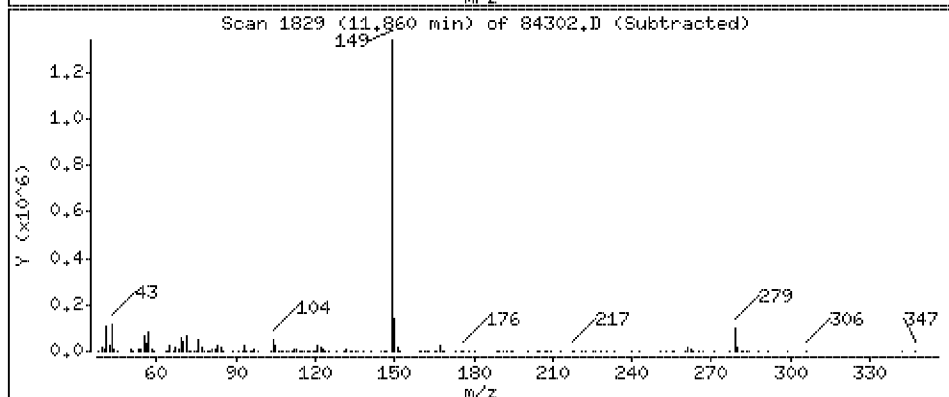
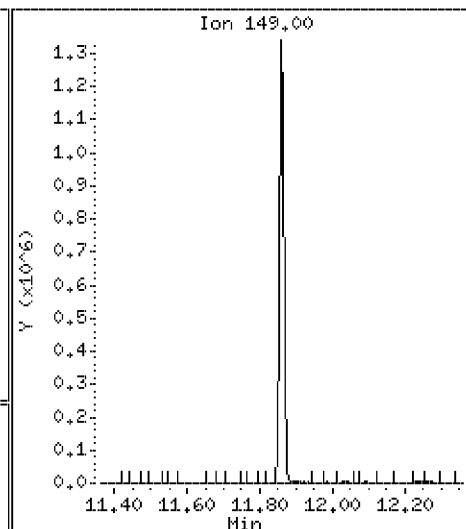
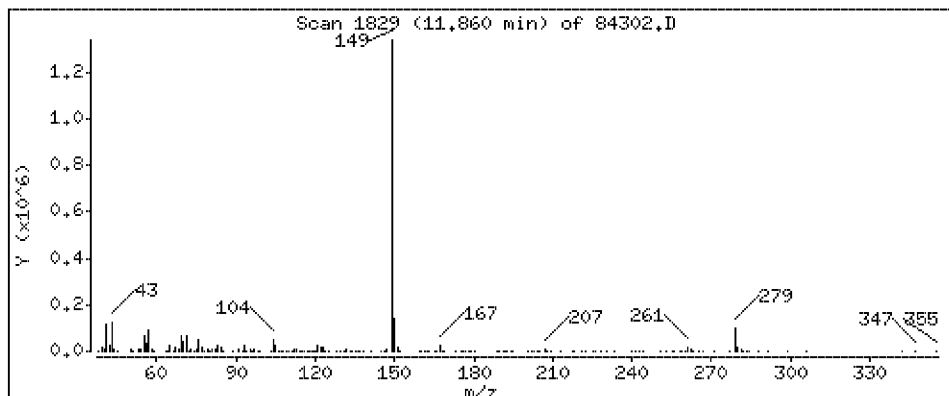
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

125 Di-n-octylphthalate

Concentration: 1710 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

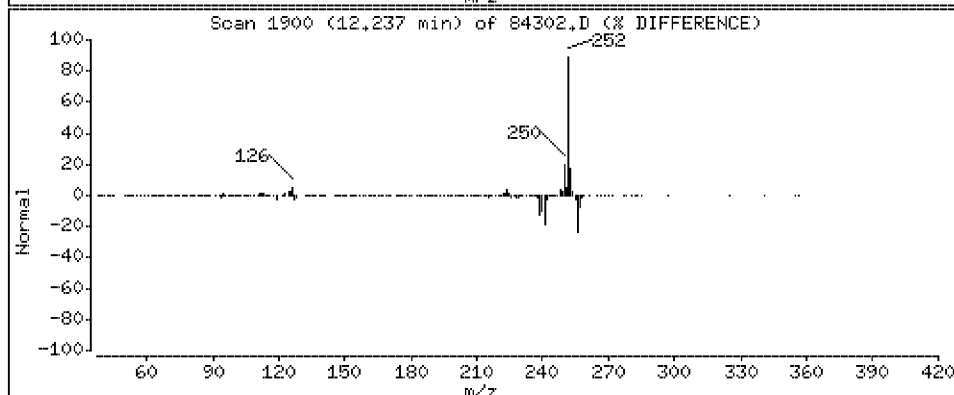
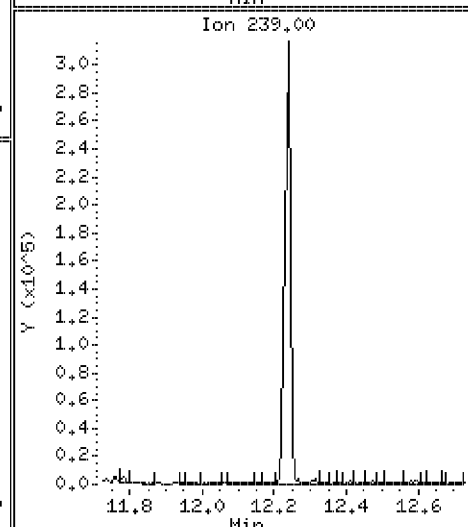
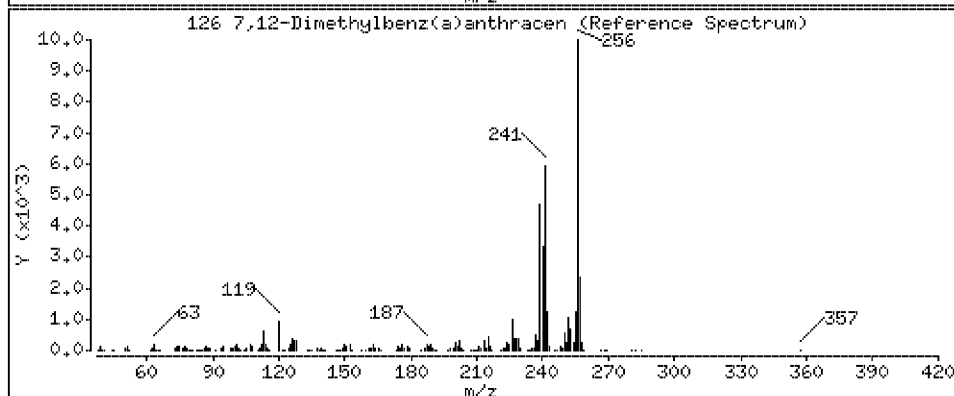
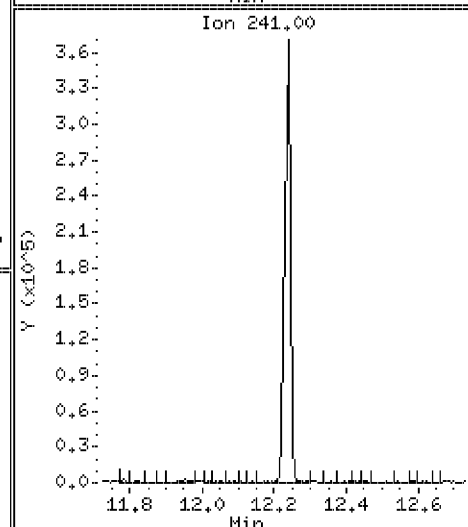
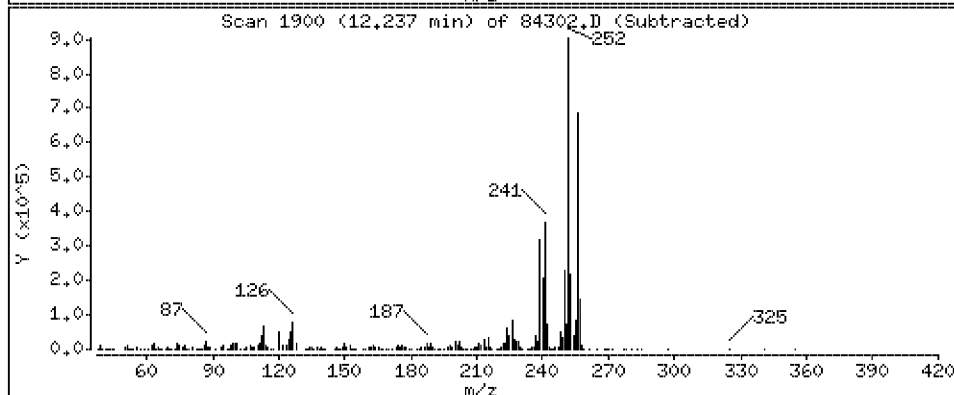
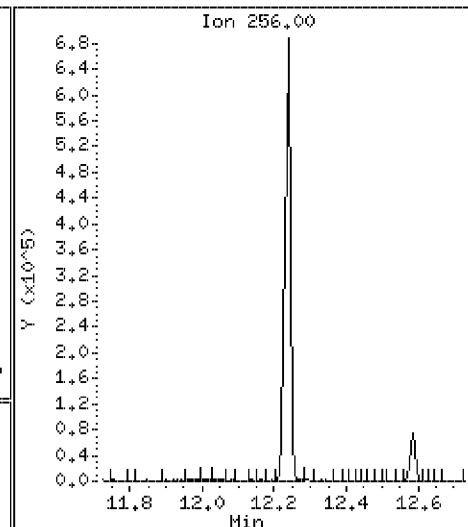
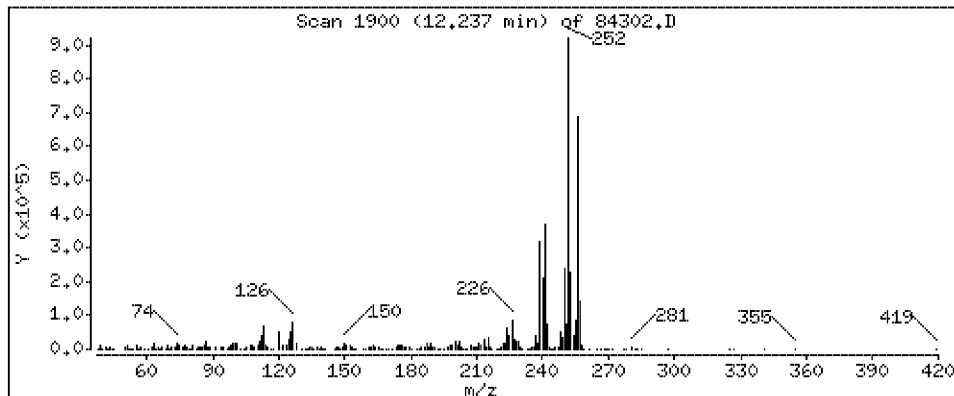
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

126 7,12-Dimethylbenz(a)anthracen

Concentration: 1420 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

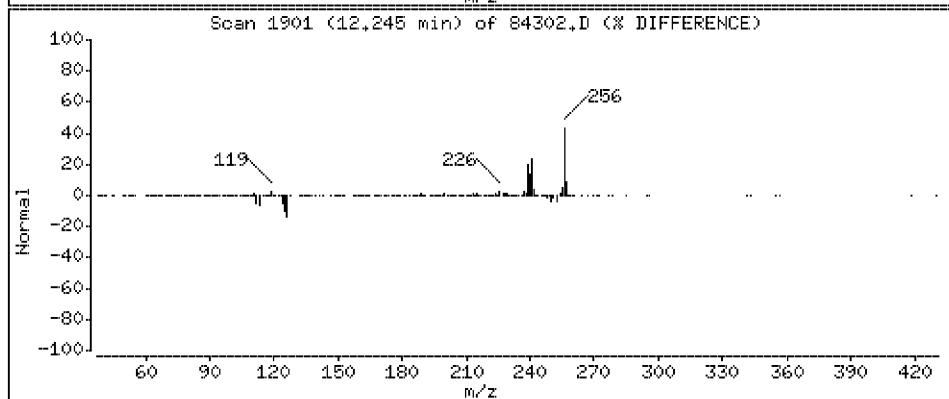
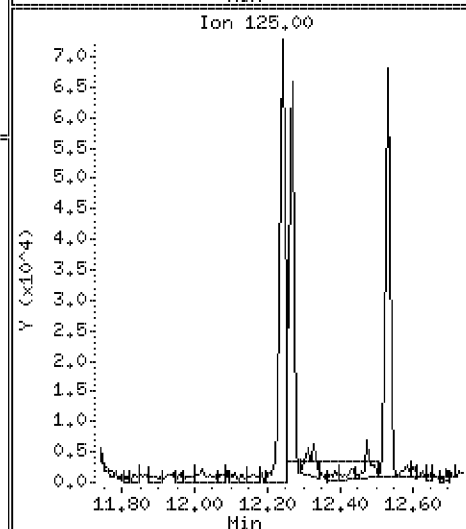
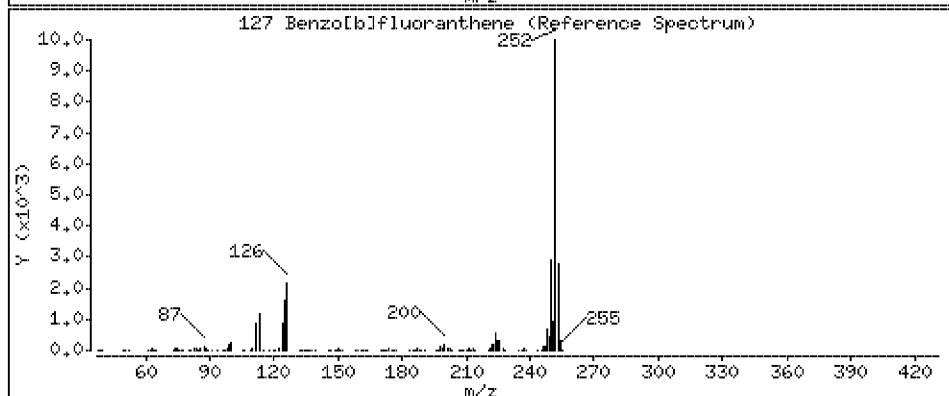
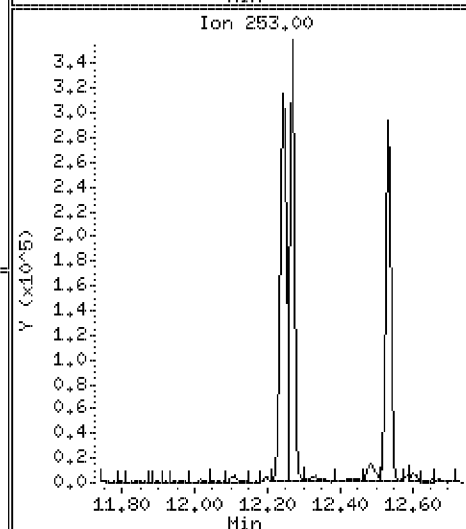
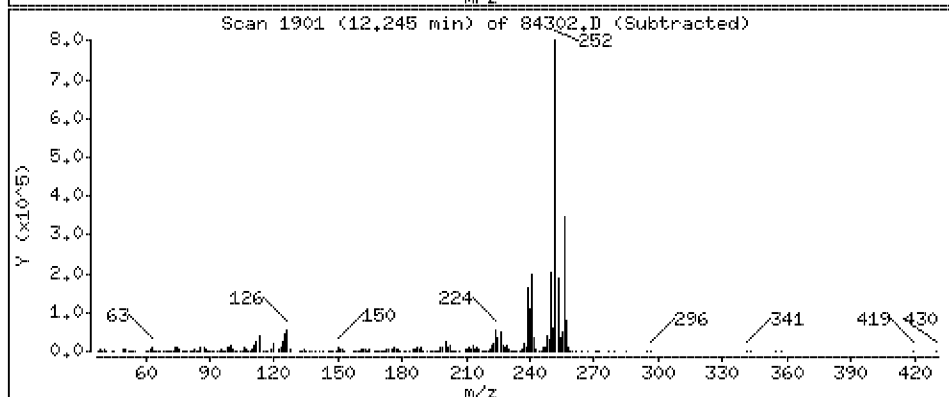
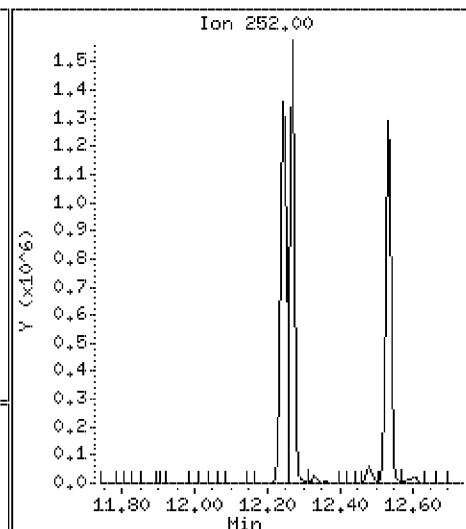
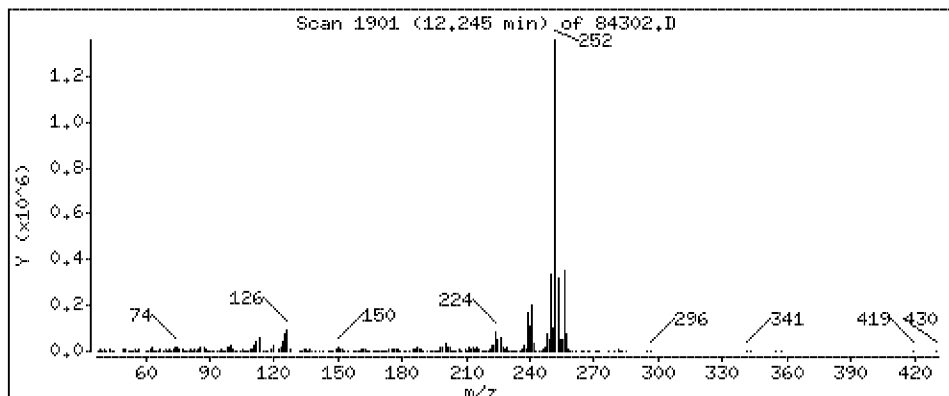
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

127 Benzo[b]fluoranthene

Concentration: 1970 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

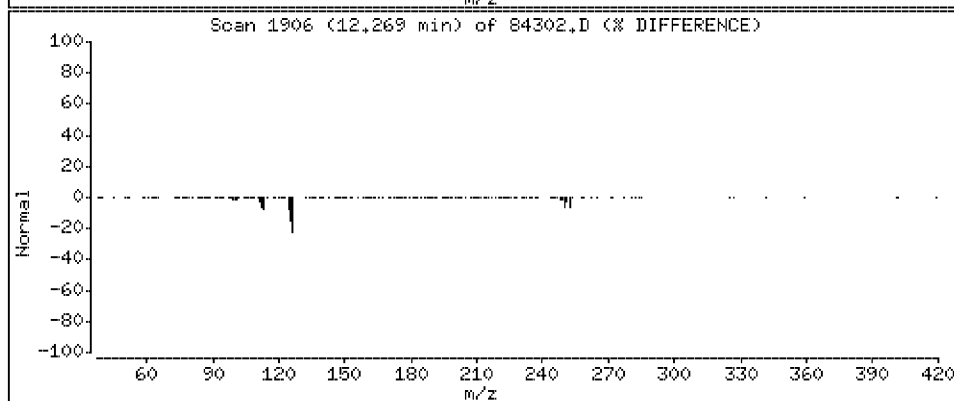
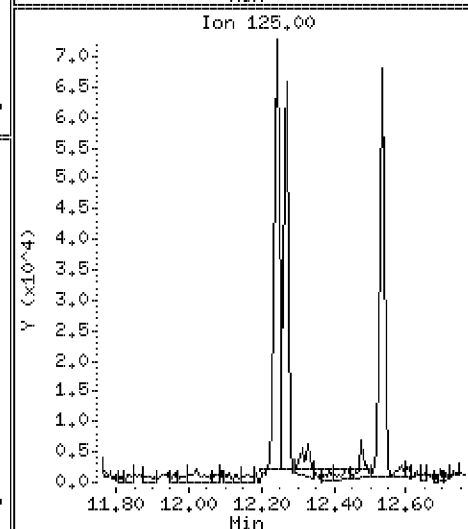
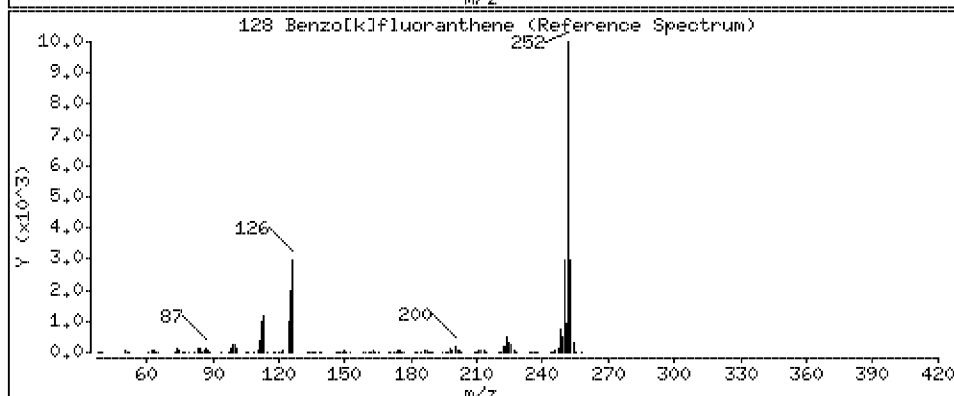
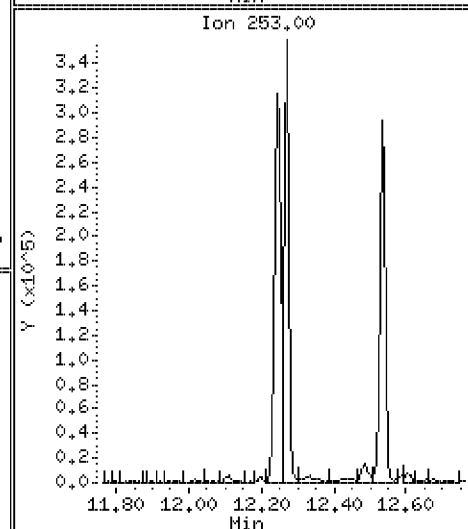
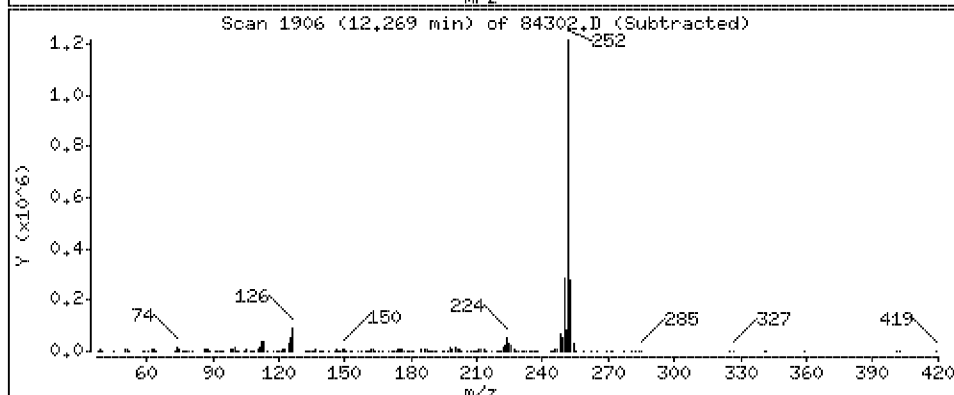
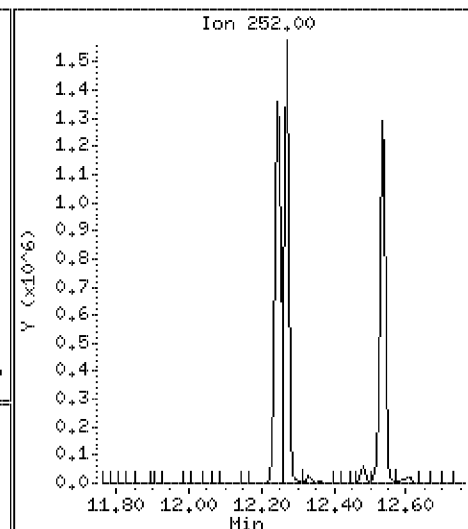
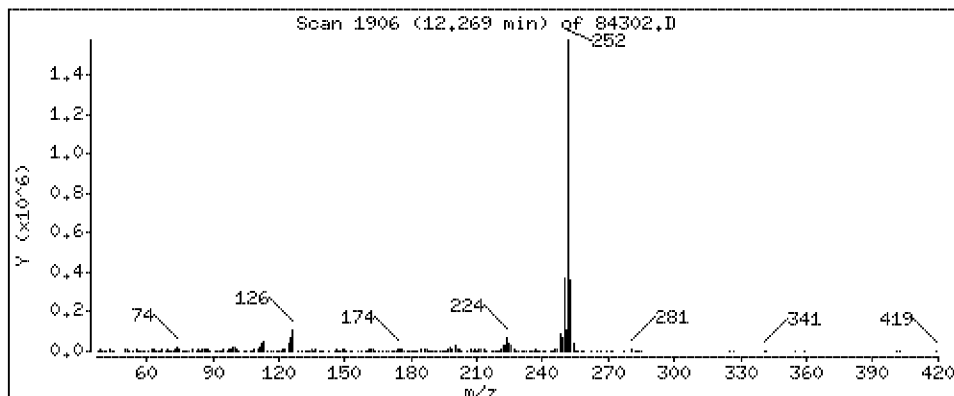
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

128 Benzo[k]fluoranthene

Concentration: 1620 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

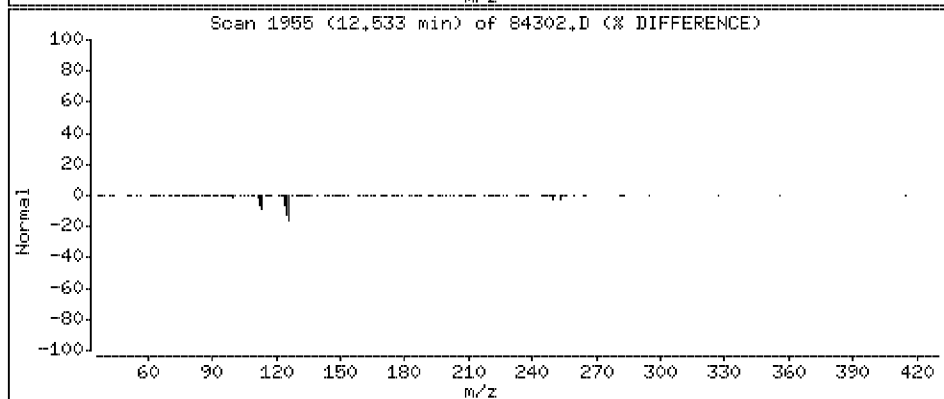
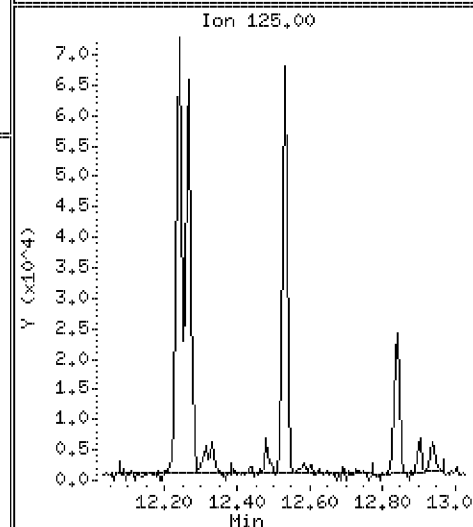
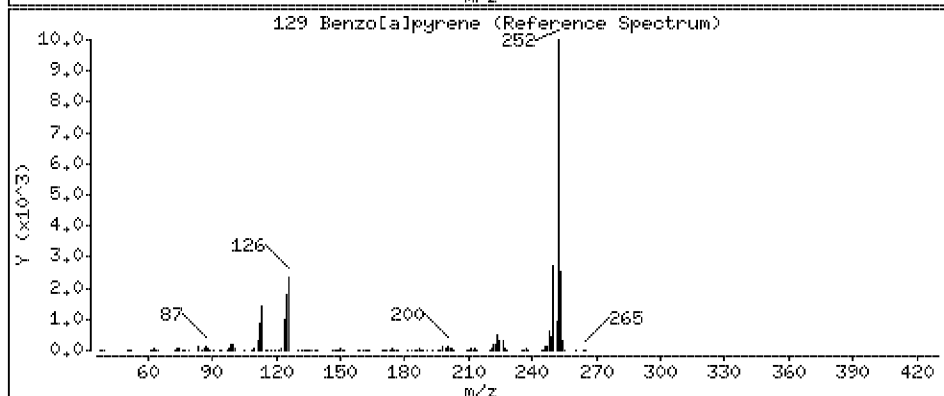
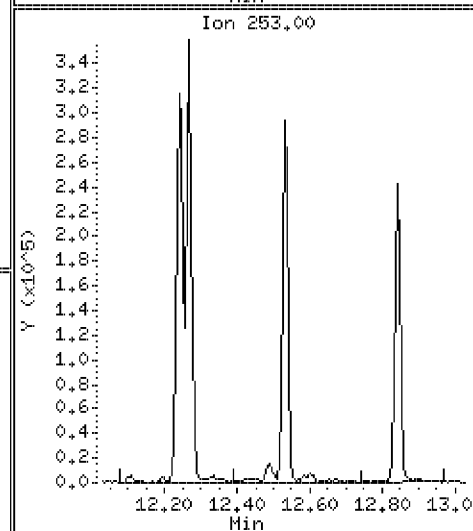
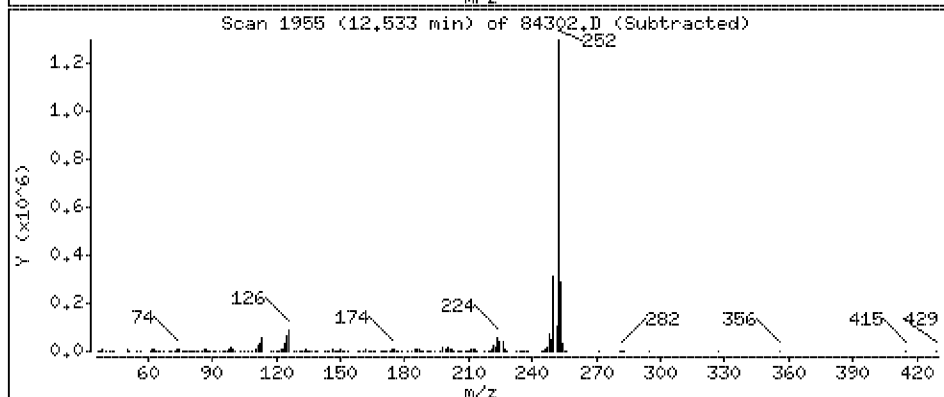
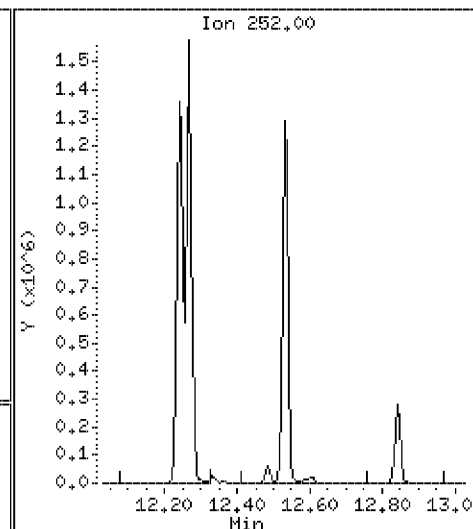
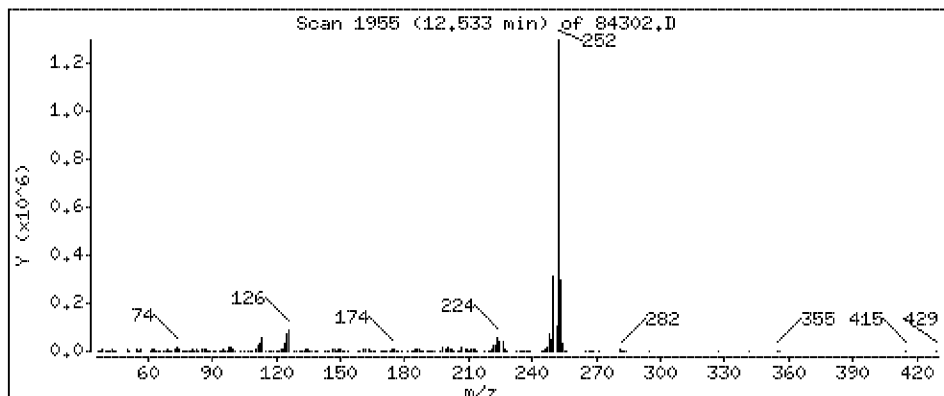
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

129 Benzo[a]pyrene

Concentration: 1790 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

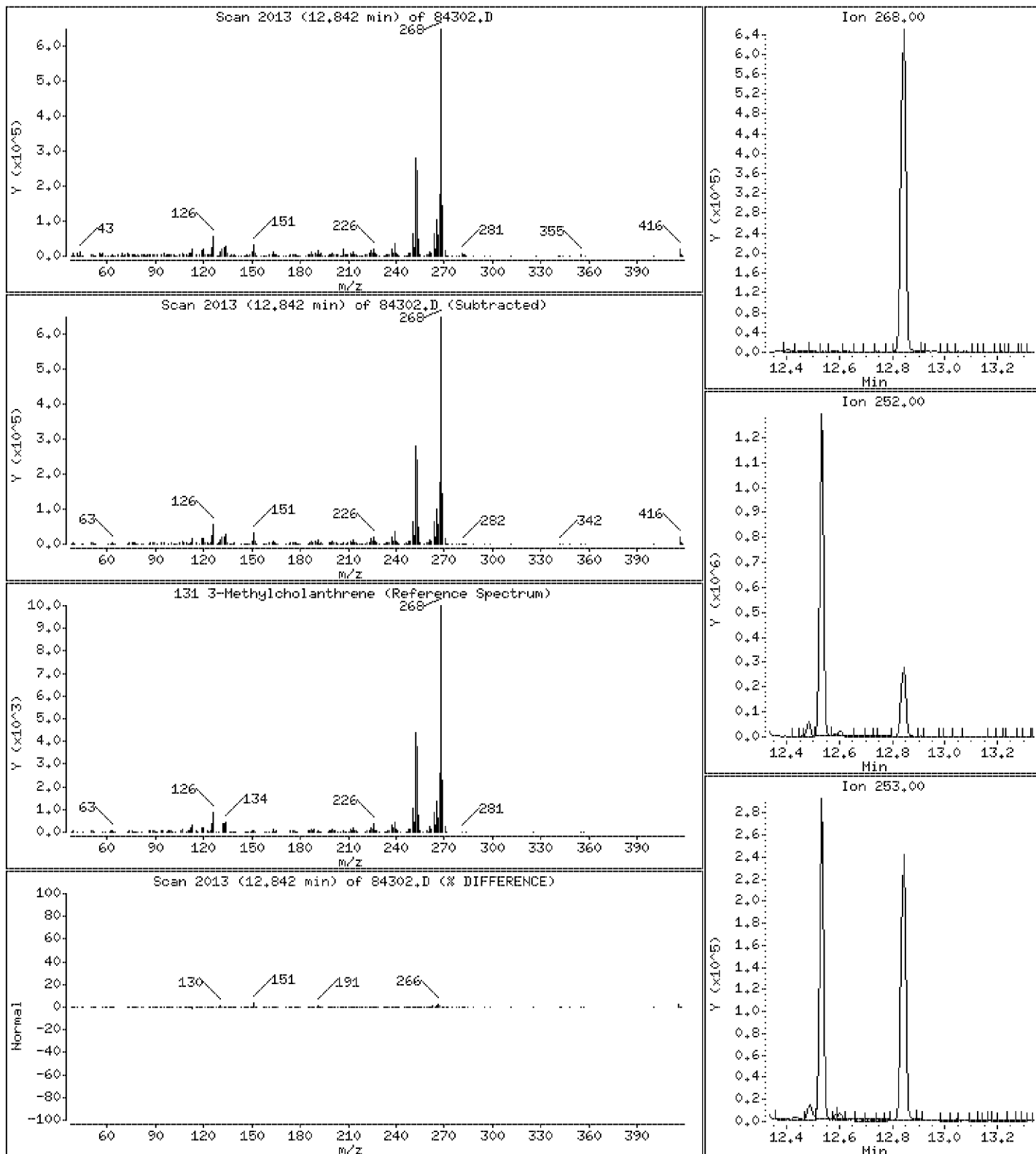
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

131 3-Methylcholanthrene

Concentration: 1400 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

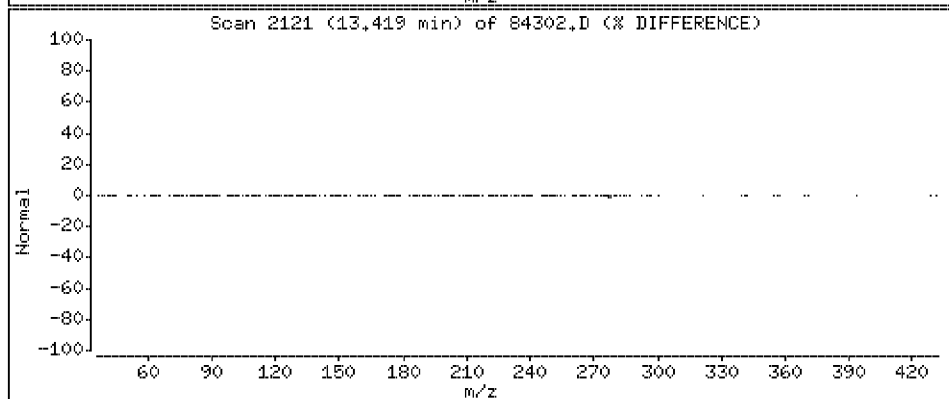
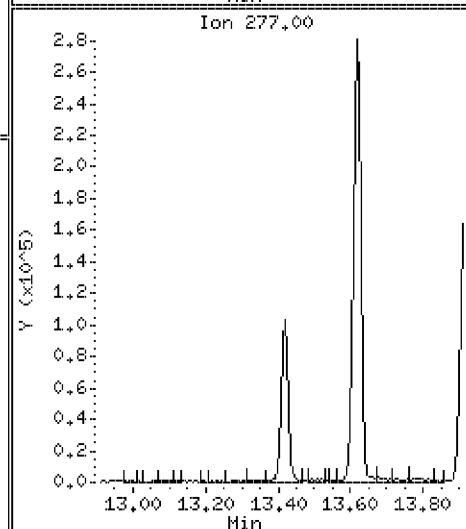
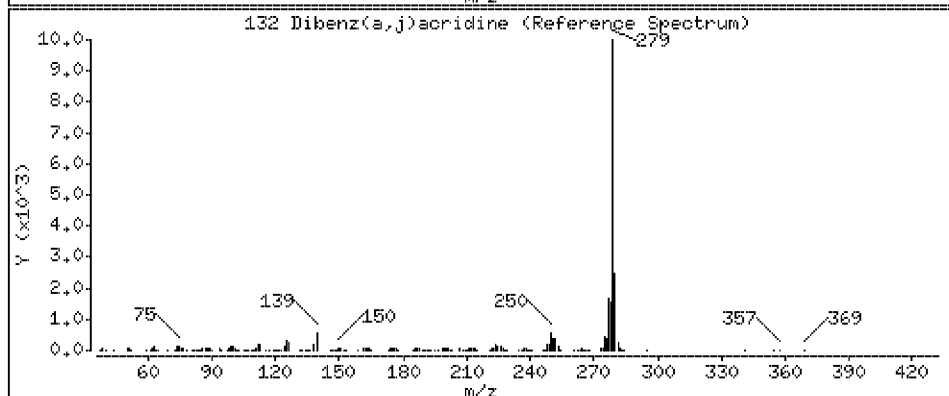
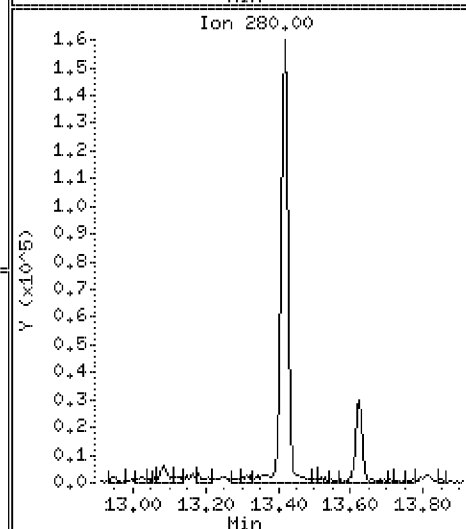
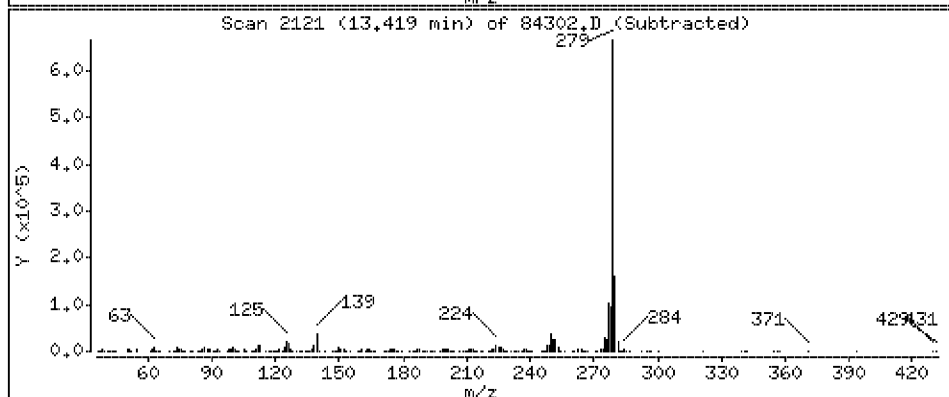
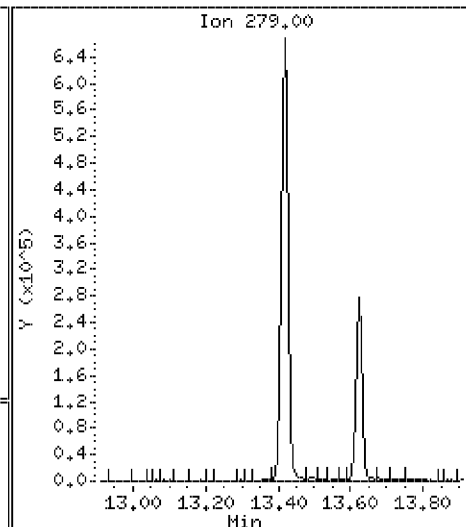
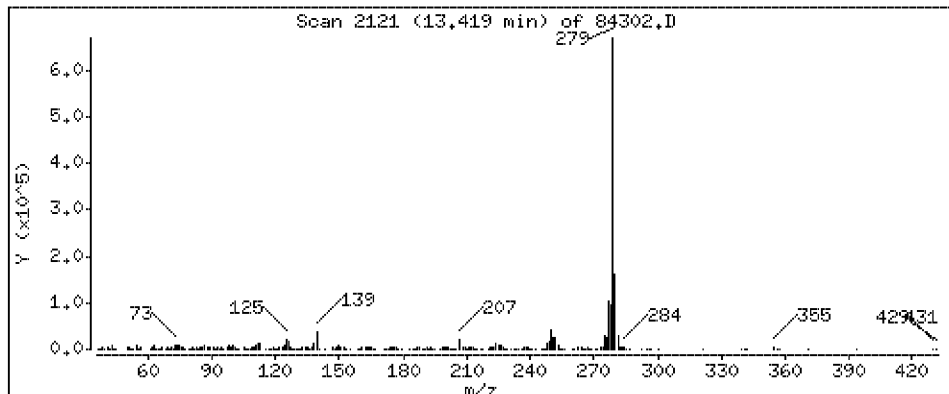
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

132 Dibenz(a,j)acridine

Concentration: 1240 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

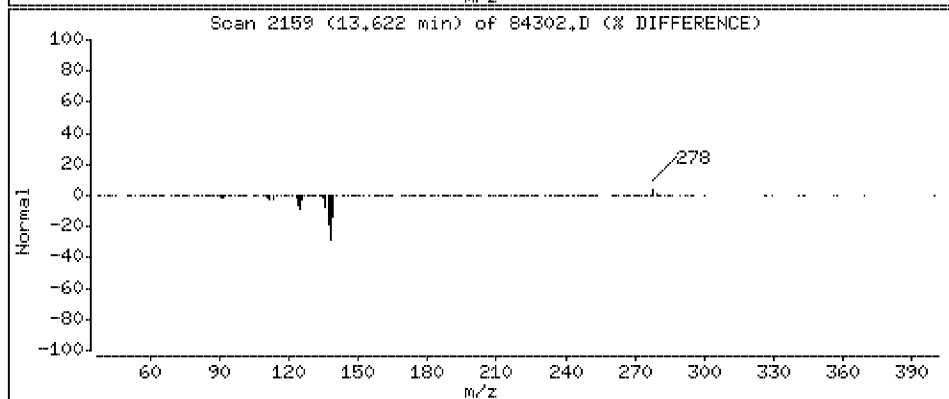
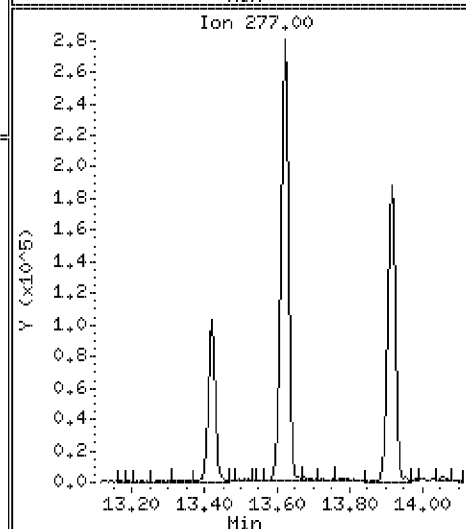
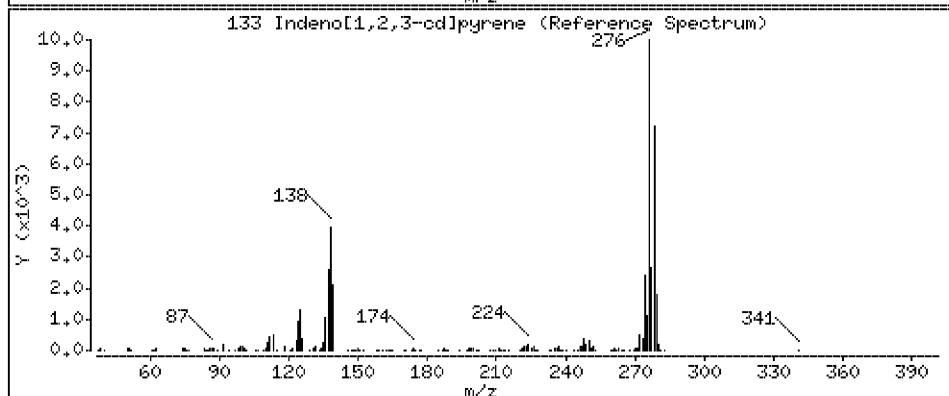
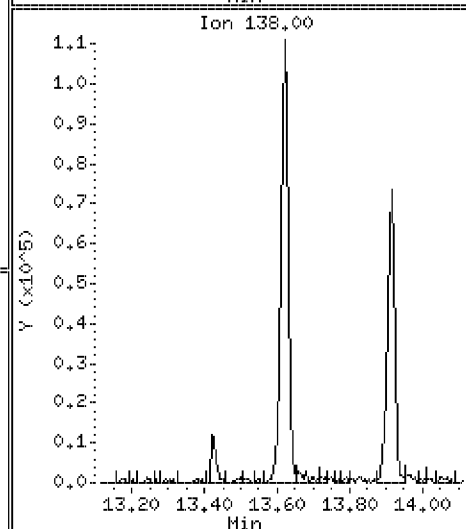
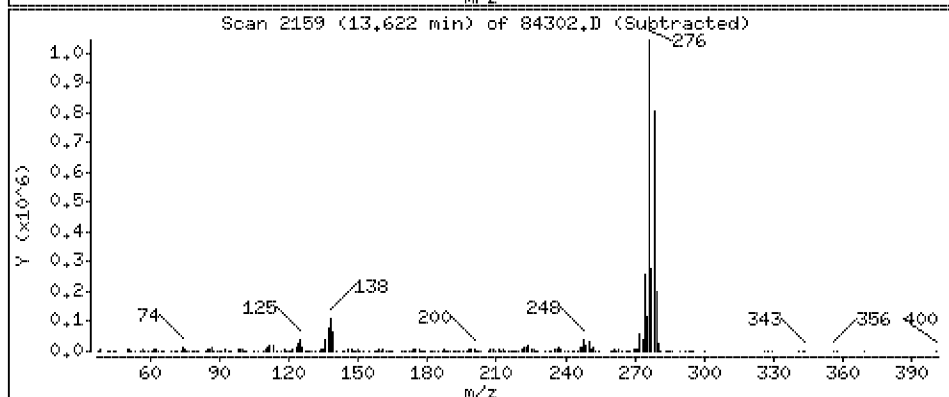
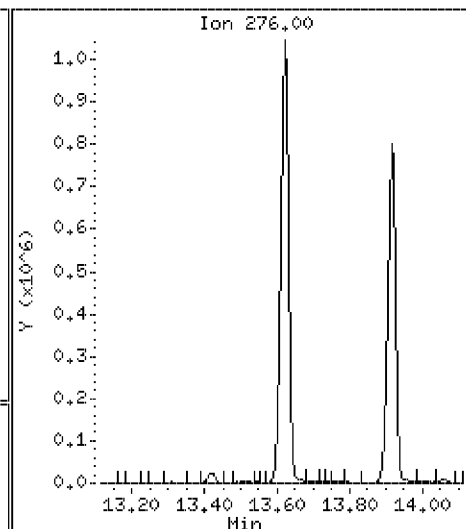
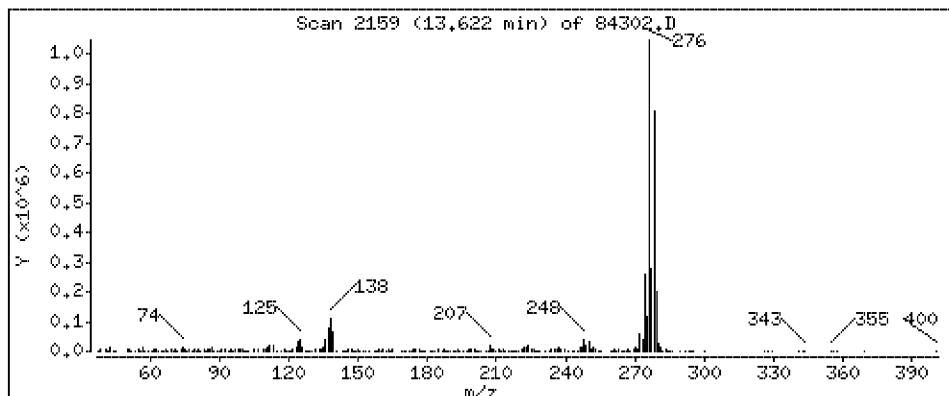
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

133 Indeno[1,2,3-cd]pyrene

Concentration: 1580 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

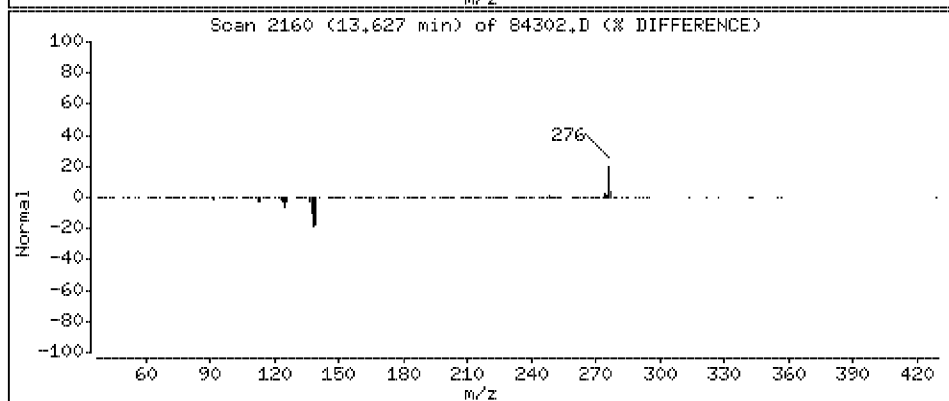
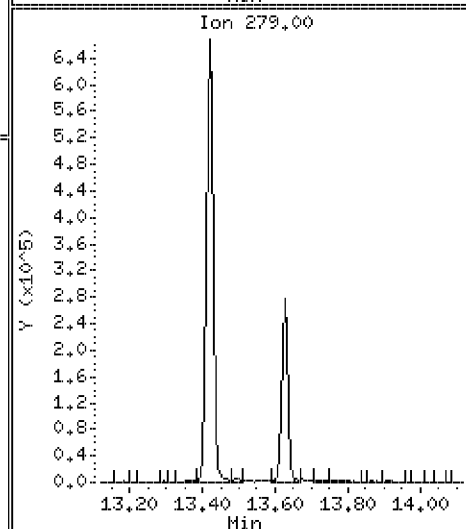
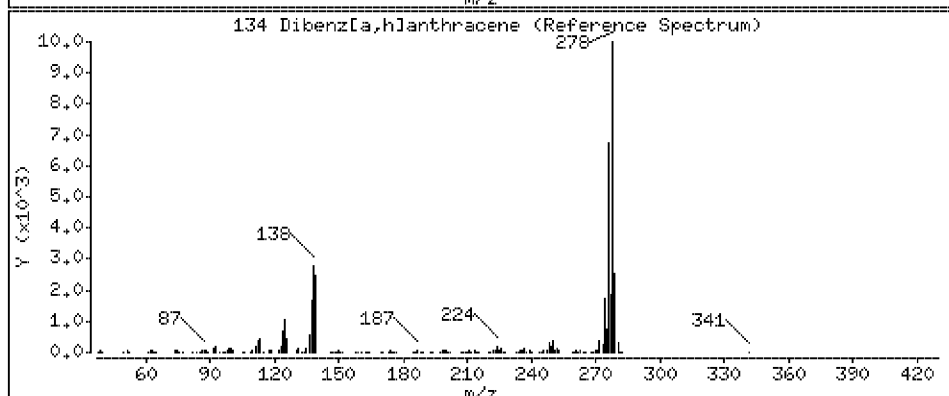
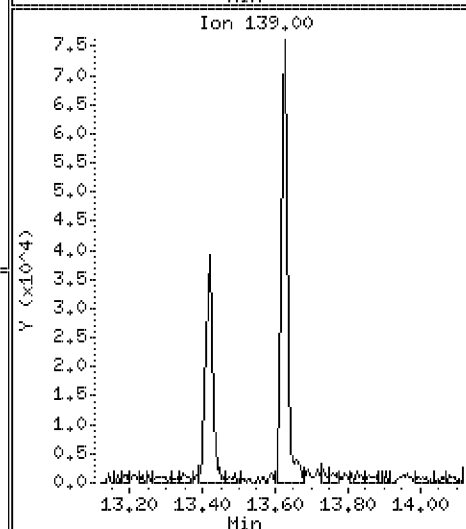
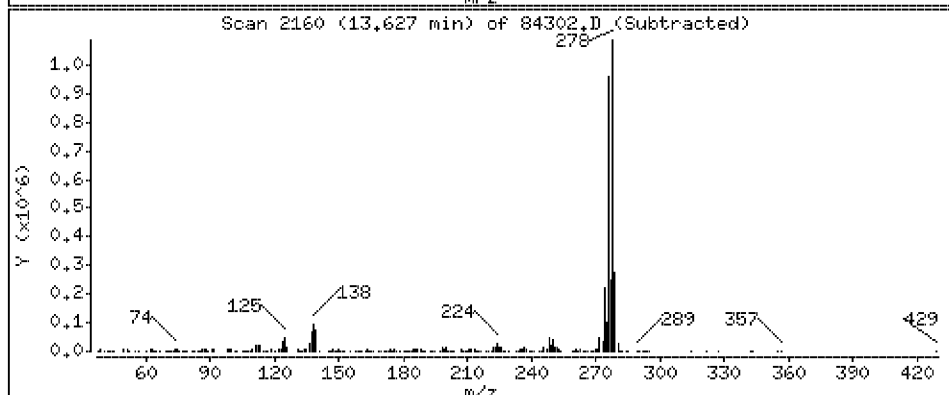
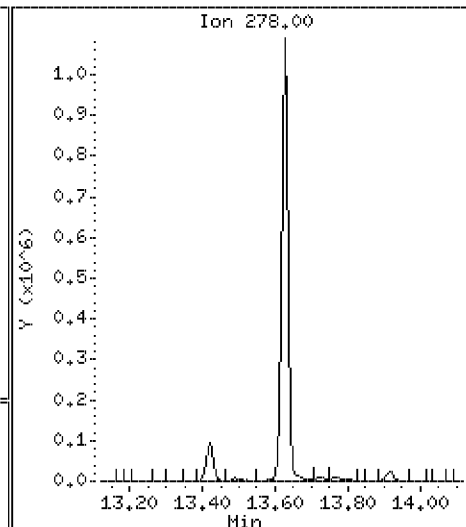
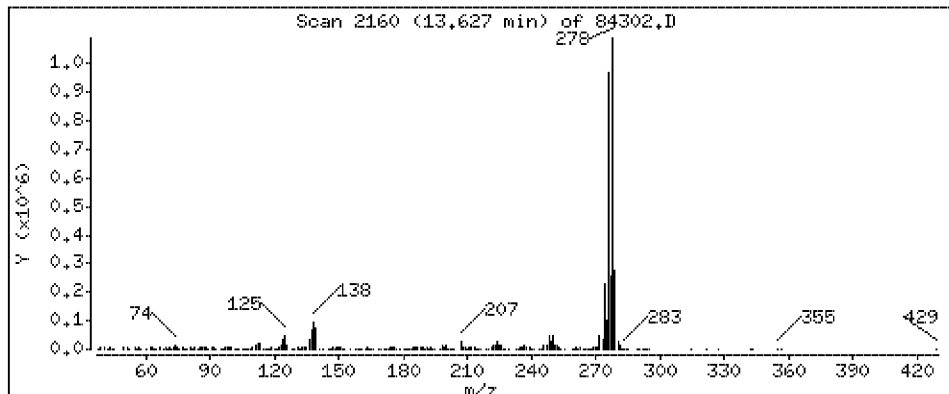
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

134 Dibenz[a,h]anthracene

Concentration: 1530 ug/kg



Date : 04-MAY-2012 13:22

Client ID: EPAFMC-SD-07MS

Instrument: smsd03.i

Sample Info: SW350584302

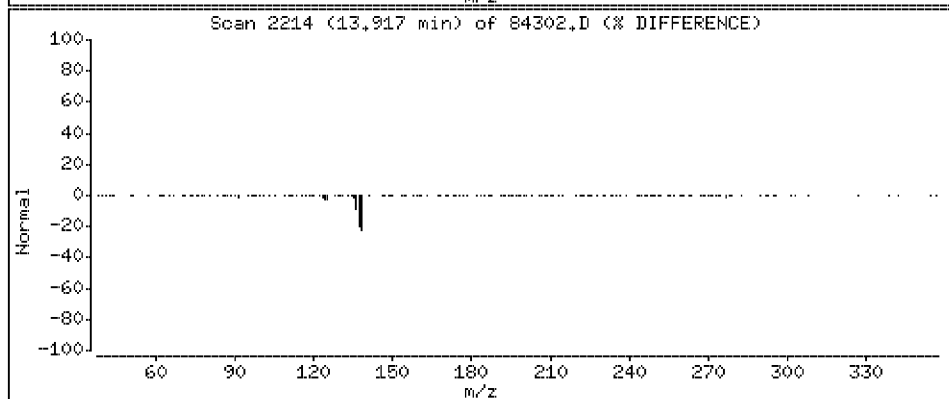
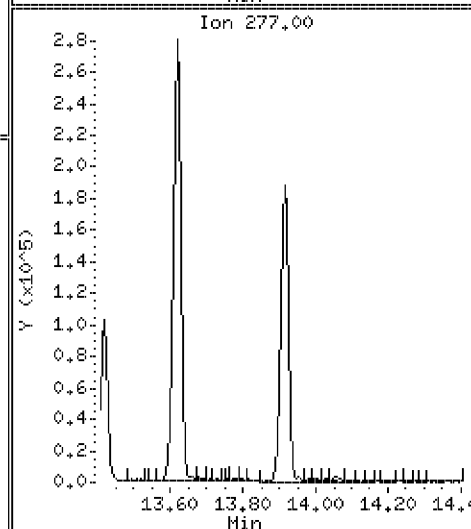
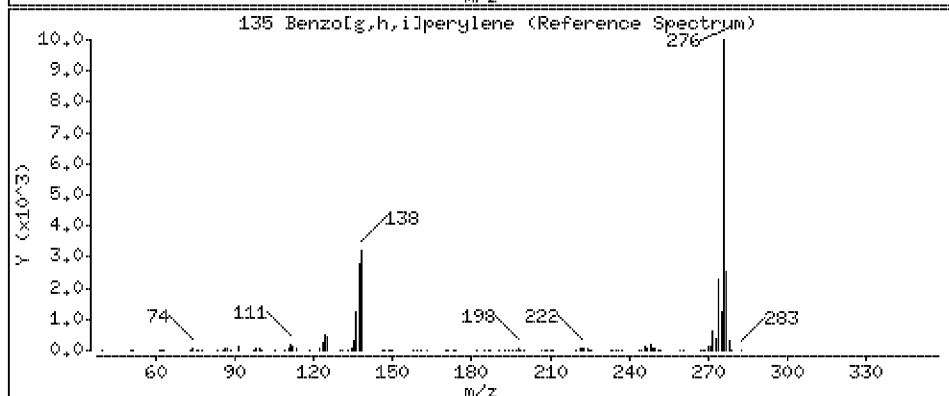
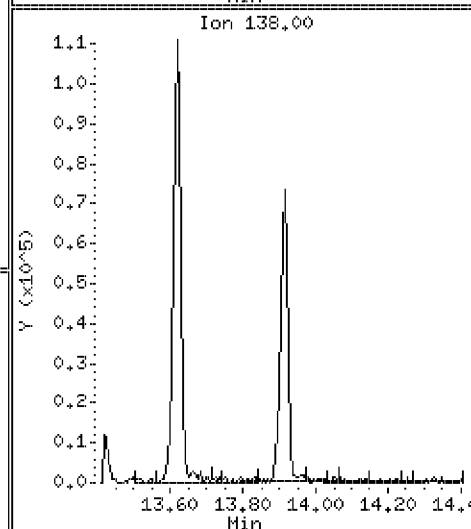
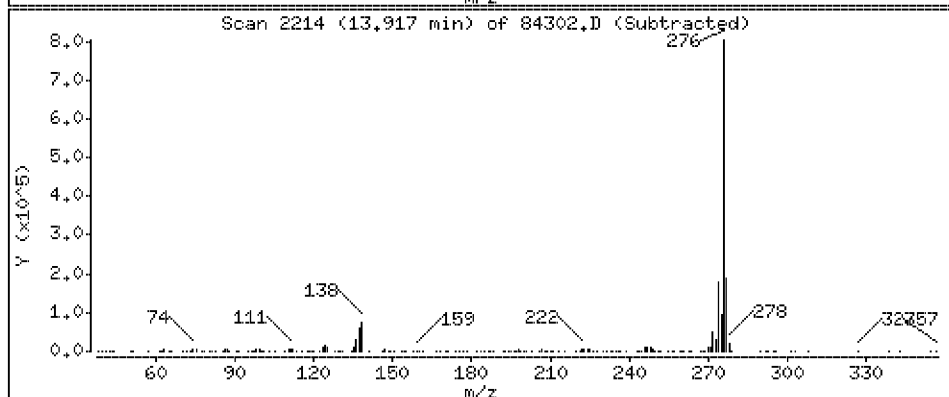
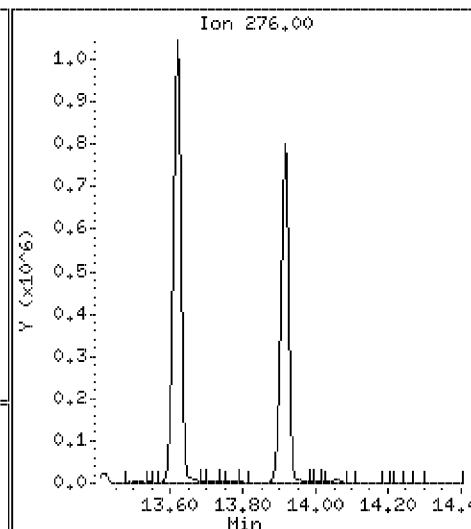
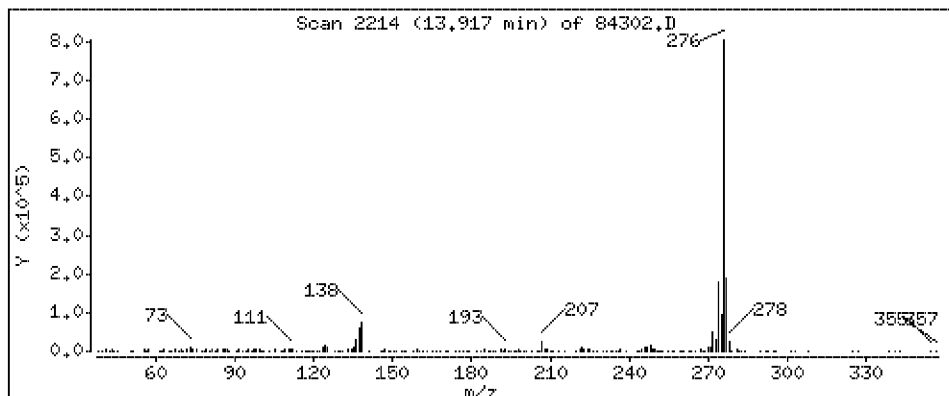
Operator: HJ

Column phase: HPMS-5

Column diameter: 0.25

135 Benzo[*g,h,i*]perylene

Concentration: 1490 ug/kg



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3050412.b\84303.D
 Lab Smp Id: 350584303 Client Smp ID: EPAFMC-SD-07SD
 Inj Date : 04-MAY-2012 13:46 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : SW350584303
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3050412.b\8270bcs.m
 Meth Date : 07-May-2012 17:35 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 18:17 Cal File: AP9CAL4.D
 Als bottle: 10 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.120	Weight of sample extracted (g)
M	24.500	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
3 2- Picoline CAS #: 109-06-8									
2.838	2.829 (0.652)		93	203310	19.7339	1040	80.00- 120.00	100.00	
2.838	2.829 (0.652)		66	104972			21.06- 81.06	51.63	
2.839	2.829 (0.652)		92	52568			0.00- 56.50	25.86	
4 N-Nitrosomethylethylamine CAS #: 10595-95-6									
2.912	2.908 (0.669)		88	99217	22.5855	1190	80.00- 120.00	100.00	
2.913	2.908 (0.669)		43	47170			16.07- 76.07	47.54	
2.912	2.908 (0.669)		42	95520			71.13- 131.13	96.27	
5 Methyl Methanesulfonate CAS #: 66-27-3									
3.147	3.145 (0.723)		80	146156	20.1229	1060	80.00- 120.00	100.00	
3.146	3.145 (0.723)		79	89450			26.83- 86.83	61.20	
3.146	3.145 (0.723)		65	36360			0.00- 57.30	24.88	
7 N-Nitrosodiethylamine CAS #: 55-18-5									
3.460	3.457 (0.795)		102	95496	21.9335	1160	80.00- 120.00	100.00	
3.459	3.457 (0.794)		42	64175			38.24- 98.24	67.20	
3.459	3.457 (0.794)		57	38280			10.00- 70.00	40.09	
8 Ethyl Methanesulfonate CAS #: 62-50-0									
3.698	3.697 (0.849)		79	184802	24.5138	1290	80.00- 120.00	100.00	

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO	
					ON-COL (ug/ml)	FINAL (ug/kg)			
8 Ethyl Methanesulfonate (continued)									
3.698	3.697	(0.849)	109	98148			20.31-	80.31	53.11
3.699	3.697	(0.850)	97	32459			0.00-	49.02	17.56

12 Pentachloroethane					CAS #: 76-01-7				
4.114	4.112	(0.945)	167	72088	16.7542	883	80.00-	120.00	100.00
4.113	4.112	(0.945)	117	49043			37.70-	97.70	68.03
4.114	4.112	(0.945)	130	31134			13.54-	73.54	43.19

* 18 1,4-Dichlorobenzene-d4					CAS #: 3855-82-1				
4.354	4.352	(1.000)	152	281440	40.0000		80.00-	120.00	100.00
4.353	4.352	(1.000)	115	173713			31.12-	91.12	61.72
4.354	4.352	(1.000)	150	452640			117.02-	177.02	160.83

24 N-Nitrosopyrrolidine					CAS #: 930-55-2				
4.698	4.695	(1.079)	100	114130	24.8665	1310	80.00-	120.00	100.00(Q)
4.705	4.695	(1.081)	41	180138			33.92-	93.92	157.84
4.706	4.695	(1.081)	42	190184			28.61-	88.61	166.64

25 Acetophenone					CAS #: 98-86-2				
4.711	4.708	(0.854)	105	682766	48.5586	2560	80.00-	120.00	100.00
4.711	4.708	(0.854)	77	795309			73.68-	133.68	116.48
4.710	4.708	(0.854)	51	209035			0.00-	57.35	30.62

27 N-Nitrosomorpholine					CAS #: 59-89-2				
4.726	4.725	(1.086)	56	122377	26.0419	1370	80.00-	120.00	100.00
4.727	4.725	(1.086)	116	45678			3.66-	63.66	37.33
4.727	4.725	(1.086)	86	87326			42.07-	102.07	71.36

29 o-Toluidine					CAS #: 95-53-4				
4.744	4.743	(1.090)	106	283812	18.9599	1000	80.00-	120.00	100.00
4.744	4.743	(1.089)	77	72785			0.00-	55.88	25.65
4.744	4.743	(1.090)	107	206975			44.03-	104.03	72.93

33 N-Nitrosopiperidine					CAS #: 100-75-4				
5.004	5.003	(0.907)	114	96557	23.7624	1250	80.00-	120.00	100.00
5.004	5.003	(0.907)	42	112914			81.37-	141.37	116.94
5.004	5.003	(0.907)	55	58419			28.82-	88.82	60.50

37 o,o,o-Triethylphosphorothioate					CAS #: 126-68-1				
5.249	5.247	(1.206)	198	137905	20.3879	1070	80.00-	120.00	100.00
5.249	5.247	(1.205)	97	88782			34.32-	94.32	64.38
5.248	5.247	(1.205)	65	72591			21.58-	81.58	52.64

39 a,a-Dimethylphenethylamine					CAS #: 122-09-8				
5.363	5.368	(0.972)	58	298570	20.9623	1100	80.00-	120.00	100.00(M)
5.363	5.368	(0.972)	91	103655			9.02-	69.02	34.72
5.363	5.368	(0.972)	65	60602			0.00-	48.82	20.30

* 43 Naphthalene-d8					CAS #: 1146-65-2				
5.515	5.513	(1.000)	136	934621	40.0000		80.00-	120.00	100.00
5.515	5.513	(1.000)	68	51735			0.00-	35.11	5.54

CONCENTRATIONS								
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
====	=====	=====	=====	=====	=====	=====	=====	=====
46 2,6-Dichlorophenol					CAS #: 87-65-0			
5.598	5.598	(1.015)	162	208065	26.6018	1400	80.00- 120.00	100.00
5.596	5.598	(1.015)	63	204072			46.91- 106.91	98.08
5.597	5.598	(1.015)	98	55757			0.00- 57.33	26.80

47 Hexachloropropene					CAS #: 1888-71-7			
5.619	5.618	(1.019)	213	74052	7.11379	375	80.00- 120.00	100.00
5.619	5.618	(1.019)	215	46806			33.47- 93.47	63.21
5.617	5.618	(1.018)	117	14277			0.00- 49.38	19.28

49 N-Nitrosodi-n-butylamine					CAS #: 924-16-3			
5.902	5.901	(1.070)	84	211002	28.0244	1480	80.00- 120.00	100.00
5.902	5.901	(1.070)	57	106518			28.87- 88.87	50.48
5.902	5.901	(1.070)	41	122426			22.24- 82.24	58.02

52 Isosafrole					CAS #: 120-58-1			
6.109	6.108	(1.108)	162	171006	22.5725	1190	80.00- 120.00	100.00
6.108	6.108	(1.107)	104	129018			45.08- 105.08	75.45
6.108	6.108	(1.108)	131	87466			17.53- 77.53	51.15

56 1,2,4,5-Tetrachlorobenzene					CAS #: 95-94-3			
6.358	6.358	(0.882)	216	262613	20.6267	1090	80.00- 120.00	100.00
6.358	6.358	(0.882)	214	205553			47.88- 107.88	78.27
6.357	6.358	(0.882)	108	43272			0.00- 46.90	16.48

60 Safrole					CAS #: 94-59-7			
6.612	6.610	(1.199)	162	185858	26.1349	1380	80.00- 120.00	100.00
6.611	6.610	(1.199)	104	118468			32.51- 92.51	63.74
6.611	6.610	(1.199)	77	74409			9.98- 69.98	40.04

64 1,4-Naphthoquinone					CAS #: 130-15-4			
6.839	6.838	(0.949)	158	17065	2.37437	125	80.00- 120.00	100.00(R)
6.839	6.838	(0.948)	102	15879			54.85- 114.85	93.05
6.840	6.838	(0.949)	130	7127			16.10- 76.10	41.76

66 1,3-Dinitrobenzene					CAS #: 99-65-0			
6.980	6.977	(0.968)	168	75970	22.3514	1180	80.00- 120.00	100.00
6.979	6.977	(0.968)	75	97582			99.26- 159.26	128.45
6.979	6.977	(0.968)	50	53590			41.55- 101.55	70.54

* 70 Acenaphthene-d10					CAS #: 15067-26-2			
7.210	7.208	(1.000)	164	671925	40.0000		80.00- 120.00	100.00
7.210	7.208	(1.000)	162	640390			66.36- 126.36	95.31
7.210	7.208	(1.000)	160	293815			14.03- 74.03	43.73

73 Pentachlorobenzene					CAS #: 608-93-5			
7.373	7.372	(1.023)	250	272148	21.9217	1160	80.00- 120.00	100.00
7.373	7.372	(1.023)	252	180424			35.99- 95.99	66.30
7.372	7.372	(1.022)	108	71067			0.00- 57.33	26.11

77 1-Naphthylamine					CAS #: 134-32-7			
7.489	7.487	(1.039)	143	263077	22.3915	1180	80.00- 120.00	100.00
7.488	7.487	(1.039)	115	152382			28.87- 88.87	57.92

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET	RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
77 1-Naphthylamine (continued)									
7.489	7.487	(1.039)	89	38148			0.00-	42.36	14.50

78 2,3,4,6-Tetrachlorophenol CAS #: 58-90-2									
7.539	7.538	(1.046)	232	157225	23.0543	1220	80.00-	120.00	100.00
7.538	7.538	(1.045)	168	50581			0.00-	56.41	32.17
7.538	7.538	(1.045)	131	65310			9.55-	69.55	41.54

79 2-Naphthylamine CAS #: 91-59-8									
7.566	7.566	(1.049)	143	182092	11.8238	623	80.00-	120.00	100.00
7.566	7.566	(1.049)	115	100257			27.34-	87.34	55.06
7.566	7.566	(1.049)	116	37487			0.00-	51.96	20.59

83 5-Nitro-ortho-toluidine CAS #: 99-55-8									
7.763	7.763	(1.077)	152	140682	23.5208	1240	80.00-	120.00	100.00(R)
7.763	7.763	(1.077)	106	98445			43.31-	103.31	69.98
7.763	7.763	(1.077)	77	169806			98.11-	158.11	120.70

90 1,3,5-Trinitrobenzene CAS #: 99-35-4									
8.137	8.132	(1.129)	75	151054	12.0560	636	80.00-	120.00	100.00
8.137	8.132	(1.129)	74	91417			32.42-	92.42	60.52
8.139	8.132	(1.129)	213	54294			7.82-	67.82	35.94

89 Diallate CAS #: 2303-16-4									
8.141	8.140	(1.129)	86	176679	21.1733	1120	80.00-	120.00	100.00(M)
8.141	8.140	(1.129)	43	176546			69.18-	129.18	99.92
8.141	8.140	(1.129)	234	127121			41.29-	101.29	71.95

92 Phenacetin CAS #: 62-44-2									
8.172	8.176	(0.943)	109	243014	25.5163	1340	80.00-	120.00	100.00
8.172	8.176	(0.943)	108	287501			83.43-	143.43	118.31
8.172	8.176	(0.943)	179	168092			37.04-	97.04	69.17

91 p-Phenylenediamine CAS #: 106-50-3									
8.172	8.175	(0.943)	108	287501	27.5662	1450	80.00-	120.00	100.00
8.171	8.175	(0.943)	80	81402			0.00-	58.28	28.31
8.171	8.175	(0.943)	53	37898			0.00-	42.98	13.18

97 Pentachloronitrobenzene CAS #: 82-68-8									
8.497	8.496	(0.981)	237	120401	24.5323	1290	80.00-	120.00	100.00
8.499	8.496	(0.981)	295	46920			8.79-	68.79	38.97
8.496	8.496	(0.980)	142	91688			40.35-	100.35	76.15

98 4-Aminobiphenyl CAS #: 92-67-1									
8.483	8.483	(0.979)	169	441291	18.6835	985	80.00-	120.00	100.00
8.483	8.483	(0.979)	168	96702			0.00-	52.22	21.91
8.482	8.483	(0.979)	115	52170			0.00-	42.15	11.82

99 Pronamide CAS #: 23950-58-5									
8.541	8.541	(0.986)	173	277171	23.5934	1240	80.00-	120.00	100.00
8.541	8.541	(0.986)	175	180441			35.20-	95.20	65.10
8.541	8.541	(0.986)	145	106670			8.71-	68.71	38.49

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	
* 100 Phenanthrene-d10					CAS #: 1517-22-2				
8.665	8.665	(1.000)	188	1367063	40.0000		80.00- 120.00	100.00	
8.664	8.665	(1.000)	94	83685			0.00- 36.25	6.12	
8.664	8.665	(1.000)	80	102828			0.00- 37.67	7.52	

102 Dinoseb					CAS #: 88-85-7				
8.662	8.662	(1.000)	211	137297	19.6682	1040	80.00- 120.00	100.00	
8.661	8.662	(1.000)	163	50731			8.78- 68.78	36.95	
8.661	8.662	(0.999)	117	29680			0.00- 52.24	21.62	

106 4-Nitroquinoline-1-oxide					CAS #: 56-57-5				
9.450	9.448	(1.091)	174	2305	6.06981	320	80.00- 120.00	100.00(Q)	
9.450	9.448	(1.090)	128	7362			211.46- 271.46	319.39	
9.449	9.448	(1.090)	101	6667			382.79- 442.79	289.24	

107 Methapyrilene					CAS #: 91-80-5				
9.524	9.517	(1.099)	97	160584	350.791	18500	80.00- 120.00	100.00(AR)	
9.524	9.517	(1.099)	58	148794			67.15- 127.15	92.66	
9.525	9.517	(1.099)	191	27227			0.00- 49.02	16.95	

108 Isodrin					CAS #: 465-73-6				
9.705	9.704	(1.120)	193	41623	9.99046	527	80.00- 120.00	100.00(R)	
9.705	9.704	(1.120)	66	46075			61.45- 121.45	110.70	
9.706	9.704	(1.120)	195	39455			55.48- 115.48	94.79	

113 Aramite					CAS #: 140-57-8				
10.278	10.277	(0.913)	185	93125	19.8011	1040	80.00- 120.00	100.00(M)	
10.278	10.277	(0.913)	191	42897			21.99- 81.99	46.06	
10.203	10.277	(0.906)	319	32883			7.24- 67.24	35.31	

114 p-Dimethylamino azobenzene					CAS #: 60-11-7				
10.368	10.368	(0.921)	225	207696	17.9158	945	80.00- 120.00	100.00	
10.367	10.368	(0.920)	120	181313			57.09- 117.09	87.30	
10.366	10.368	(0.920)	77	200796			70.49- 130.49	96.68	

115 Chlorobenzilate					CAS #: 510-15-6				
10.411	10.411	(0.924)	251	342825	19.1293	1010	80.00- 120.00	100.00	
10.411	10.411	(0.924)	253	225993			35.14- 95.14	65.92	
10.409	10.411	(0.924)	139	290262			56.67- 116.67	84.67	

117 3,3-Dimethylbenzidine					CAS #: 119-93-7				
10.699	10.700	(0.950)	212	288376	8.18893	432	80.00- 120.00	100.00	
10.699	10.700	(0.950)	106	27400			0.00- 36.31	9.50	
10.699	10.700	(0.950)	180	23214			0.00- 37.76	8.05	

119 2-Acetylaminofluorene					CAS #: 53-96-3				
10.949	10.950	(0.972)	181	419611	20.6670	1090	80.00- 120.00	100.00	
10.949	10.950	(0.972)	223	279852			35.79- 95.79	66.69	
10.949	10.950	(0.972)	180	358219			56.81- 116.81	85.37	

* 121 Chrysene-d12					CAS #: 1719-03-5				
11.263	11.259	(1.000)	240	1970067	40.0000		80.00- 120.00	100.00	
11.261	11.259	(1.000)	120	119226			0.00- 34.90	6.05	

CONCENTRATIONS								
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
* 121 Chrysene-d12 (continued)								
11.263	11.259	(1.000)	236	540785			0.00- 56.56	27.45

126 7,12-Dimethylbenz(a)anthracen					CAS #: 57-97-6			
12.233	12.227	(0.972)	256	504634	20.2016	1060	80.00- 120.00	100.00 (M)
12.235	12.227	(0.972)	241	286676			26.83- 86.83	56.81
12.235	12.227	(0.972)	239	231896			16.14- 76.14	45.95

* 130 Perylene-d12					CAS #: 1520-96-3			
12.585	12.576	(1.000)	264	1754864	40.0000		80.00- 120.00	100.00
12.584	12.576	(1.000)	260	435925			0.00- 54.67	24.84
12.585	12.576	(1.000)	265	417632			0.00- 53.09	23.80

131 3-Methylcholanthrene					CAS #: 56-49-5			
12.840	12.836	(1.020)	268	573711	20.3920	1080	80.00- 120.00	100.00
12.840	12.836	(1.020)	252	222233			12.97- 72.97	38.74
12.840	12.836	(1.020)	253	190203			7.46- 67.46	33.15

132 Dibenz(a,j)acridine					CAS #: 224-42-0			
13.416	13.410	(1.066)	279	726587	17.9536	947	80.00- 120.00	100.00
13.415	13.410	(1.066)	280	178256			0.00- 54.26	24.53
13.415	13.410	(1.066)	277	116610			0.00- 45.41	16.05

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

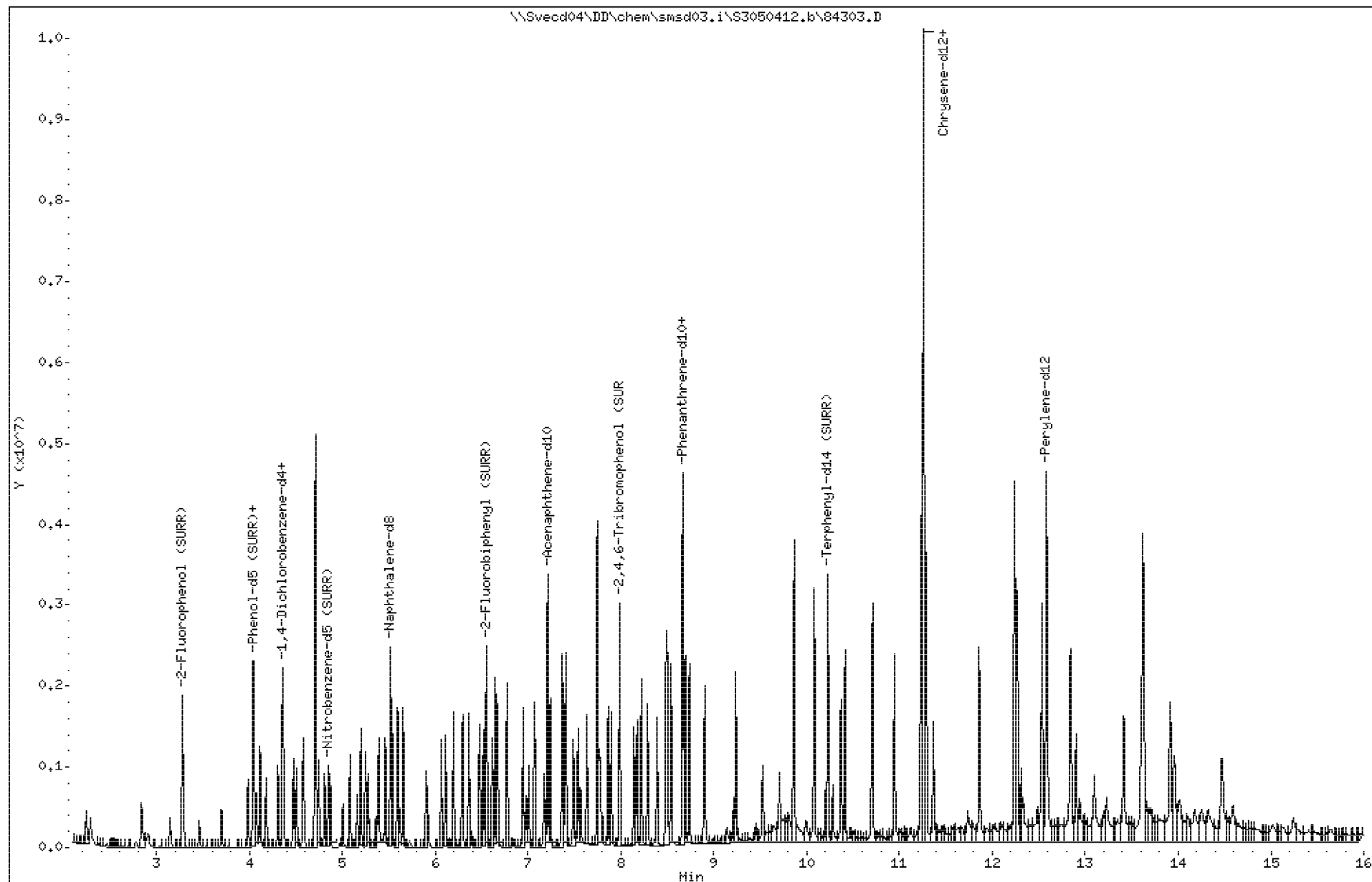
Sample Info: SN350584303

Instrument: smsd03.i

Operator: PEL

Column diameter: 0.25

Column phase: HPMS-5



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

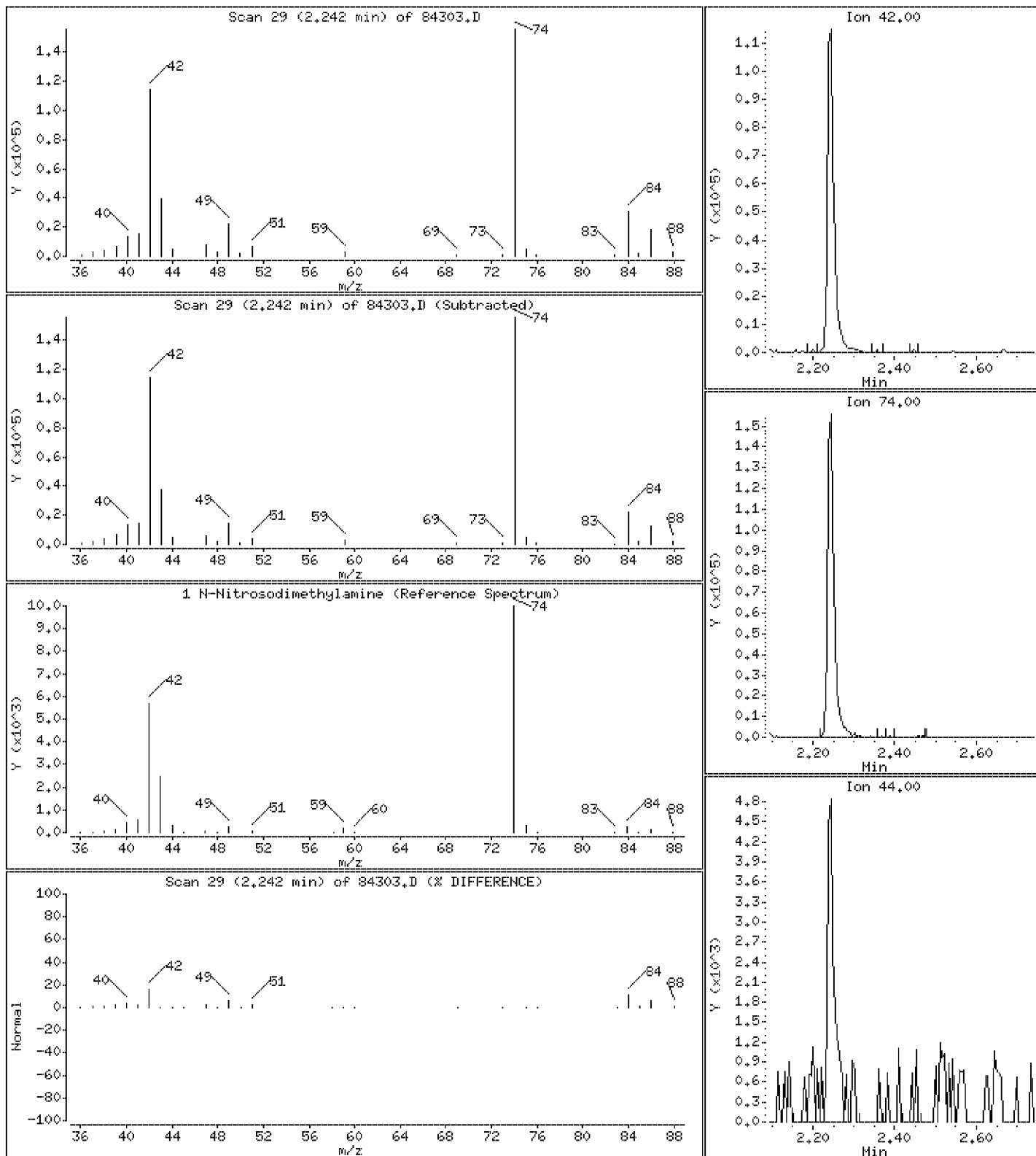
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

1 N-Nitrosodimethylamine

Concentration: 1450 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

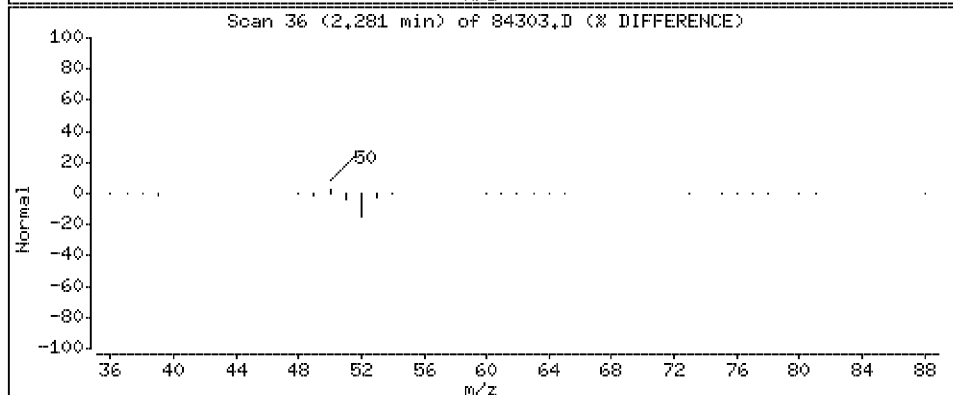
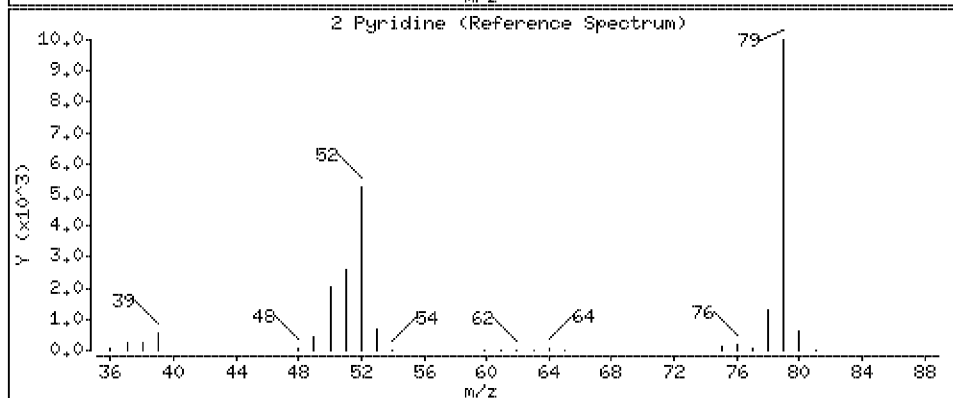
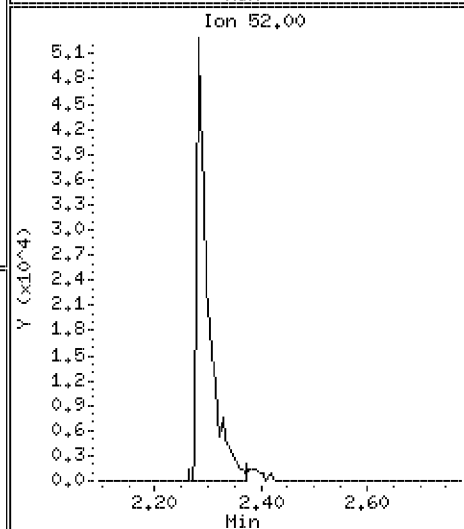
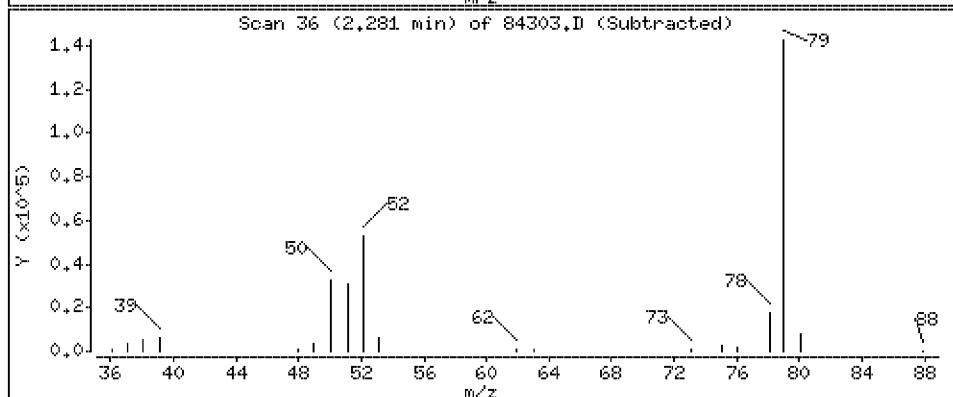
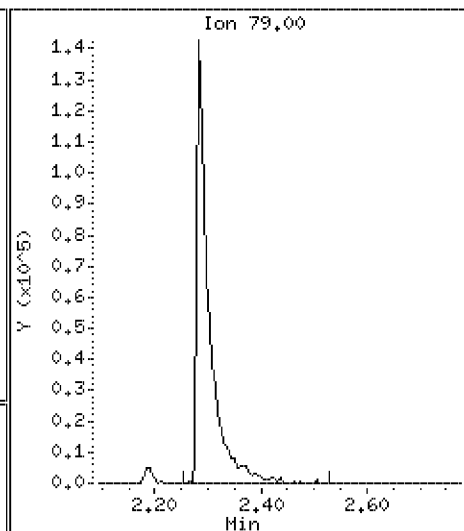
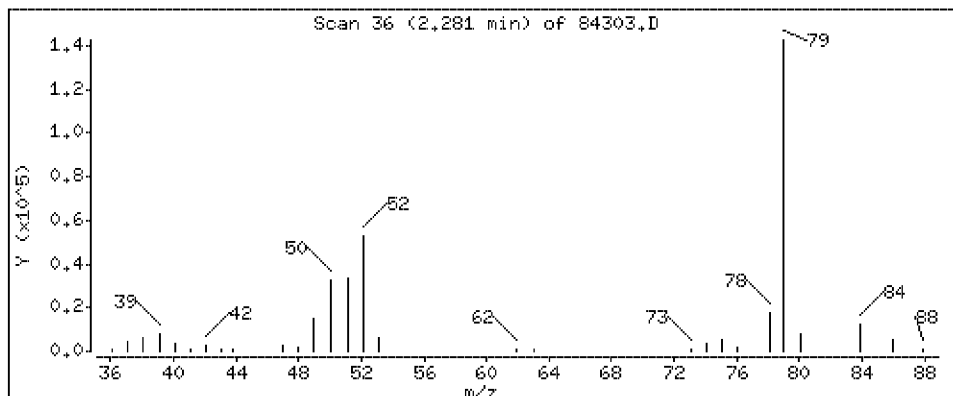
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

2 Pyridine

Concentration: 1130 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

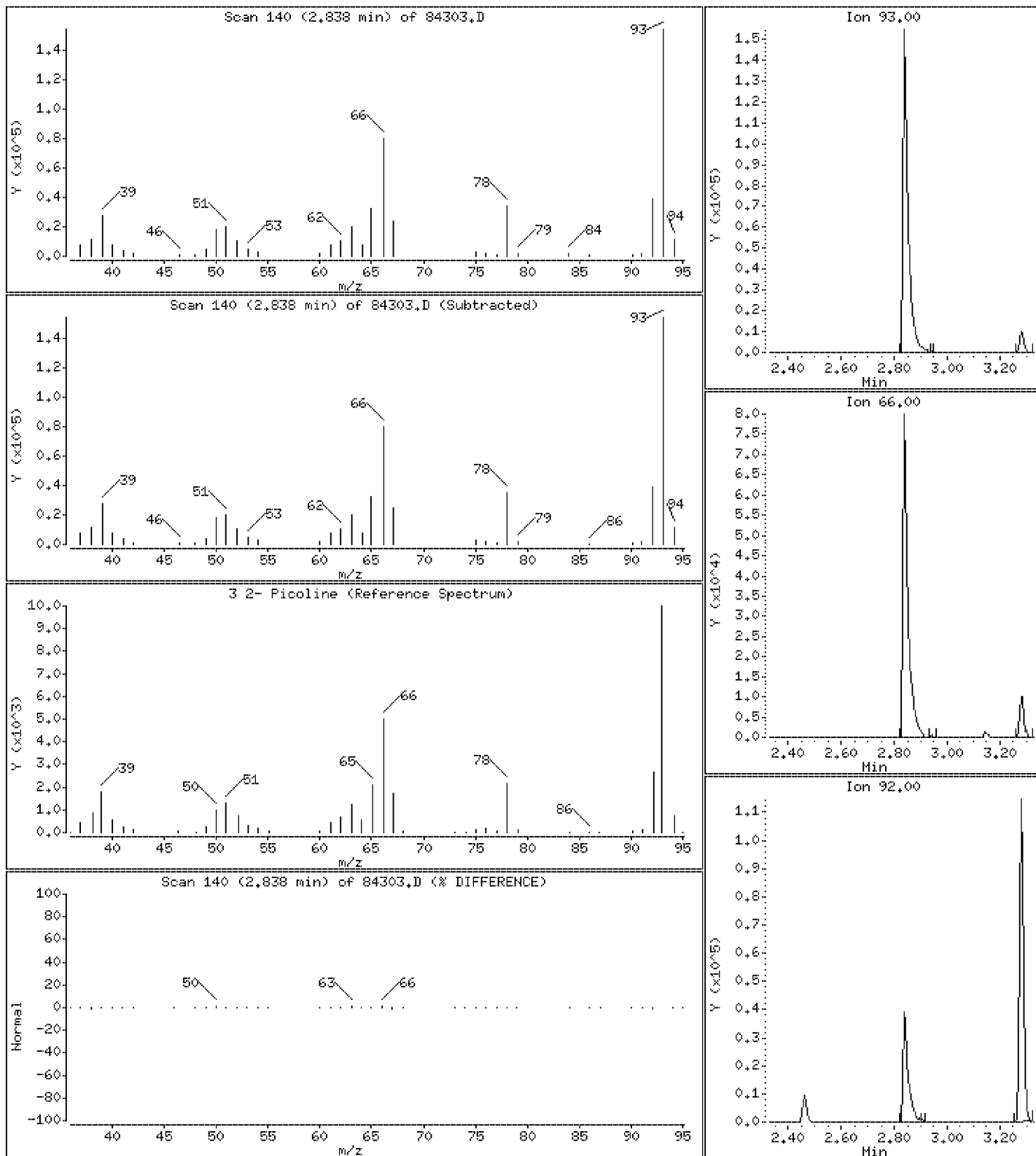
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

3 2- Picoline

Concentration: 1040 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

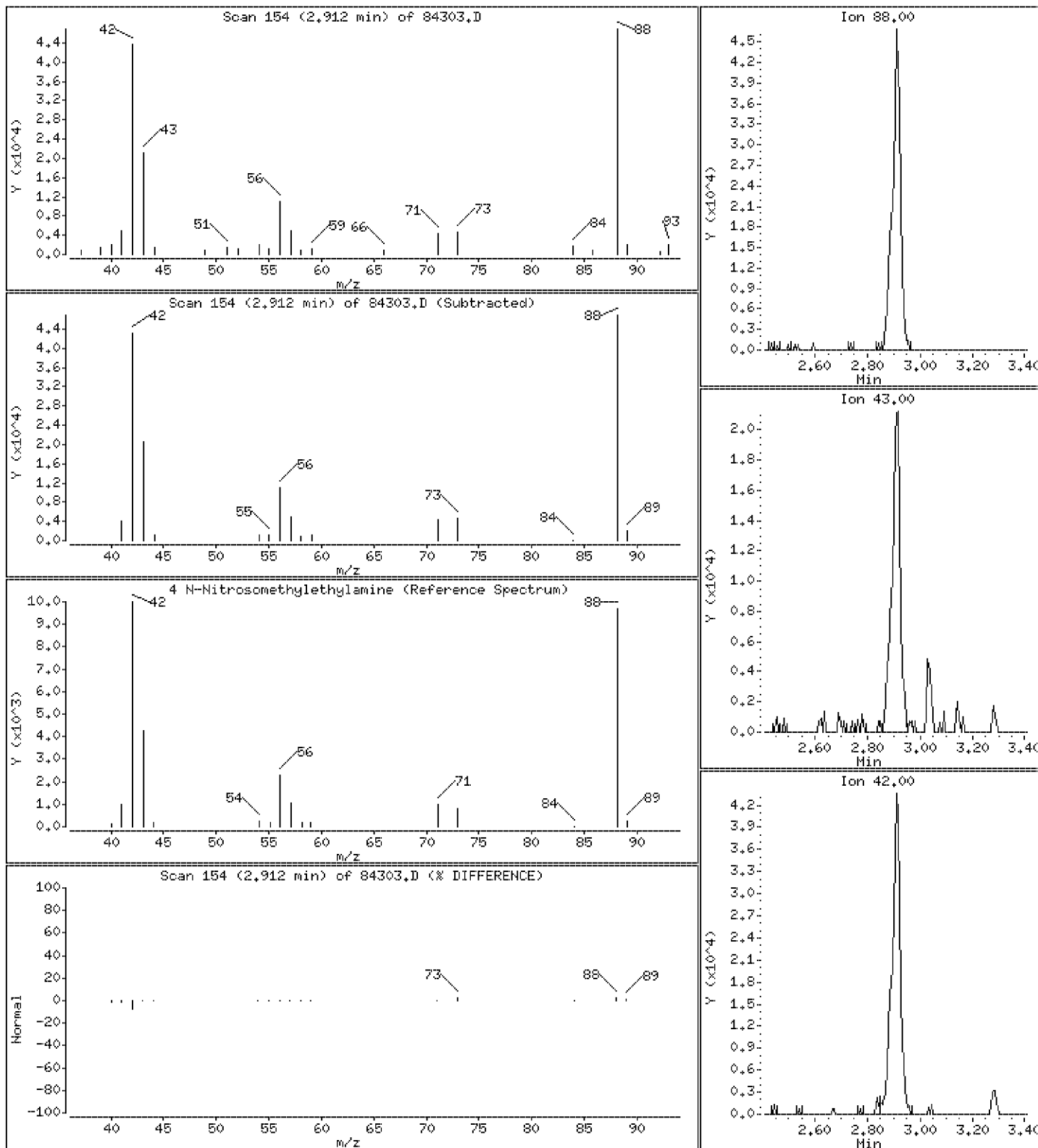
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

4 N-Nitrosomethylethylamine

Concentration: 1190 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

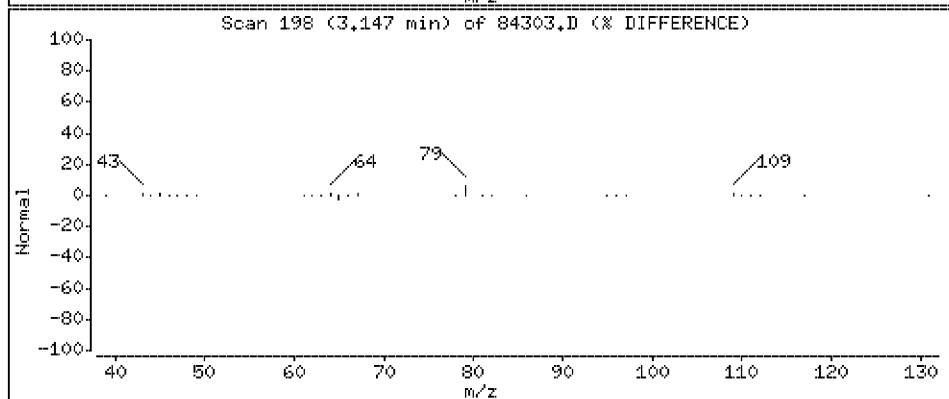
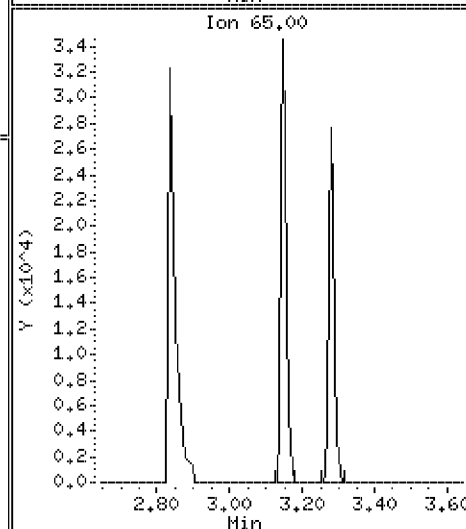
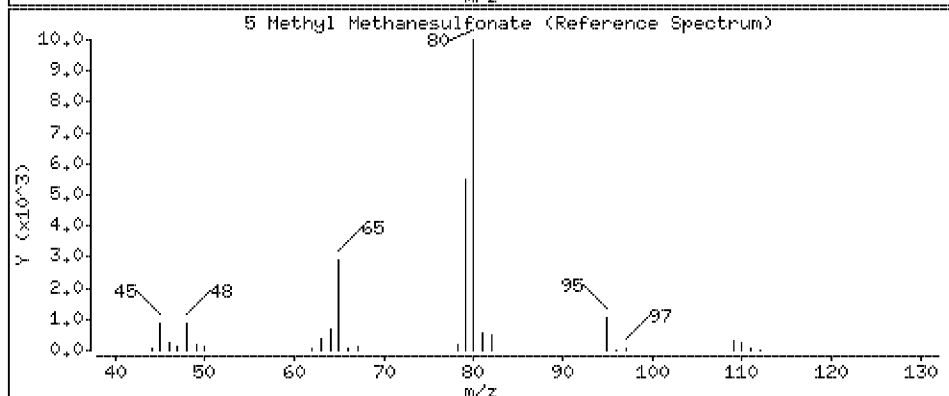
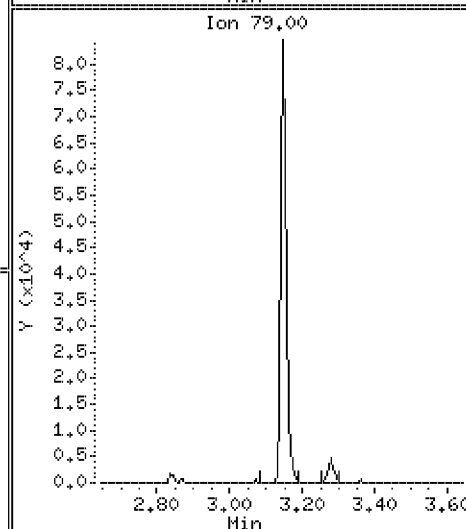
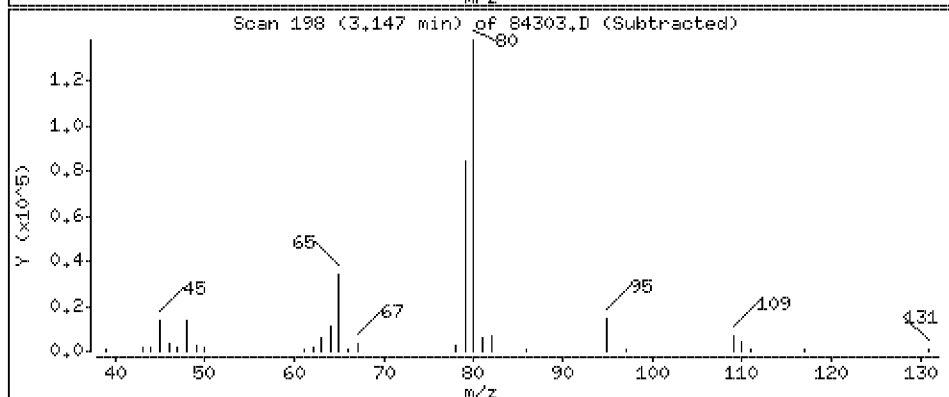
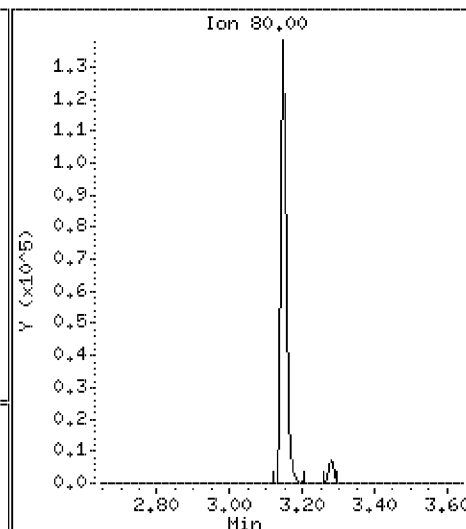
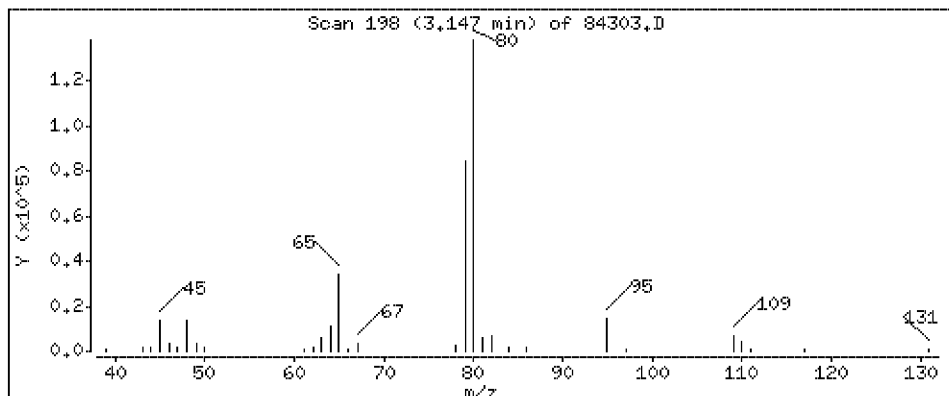
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

5 Methyl Methanesulfonate

Concentration: 1060 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

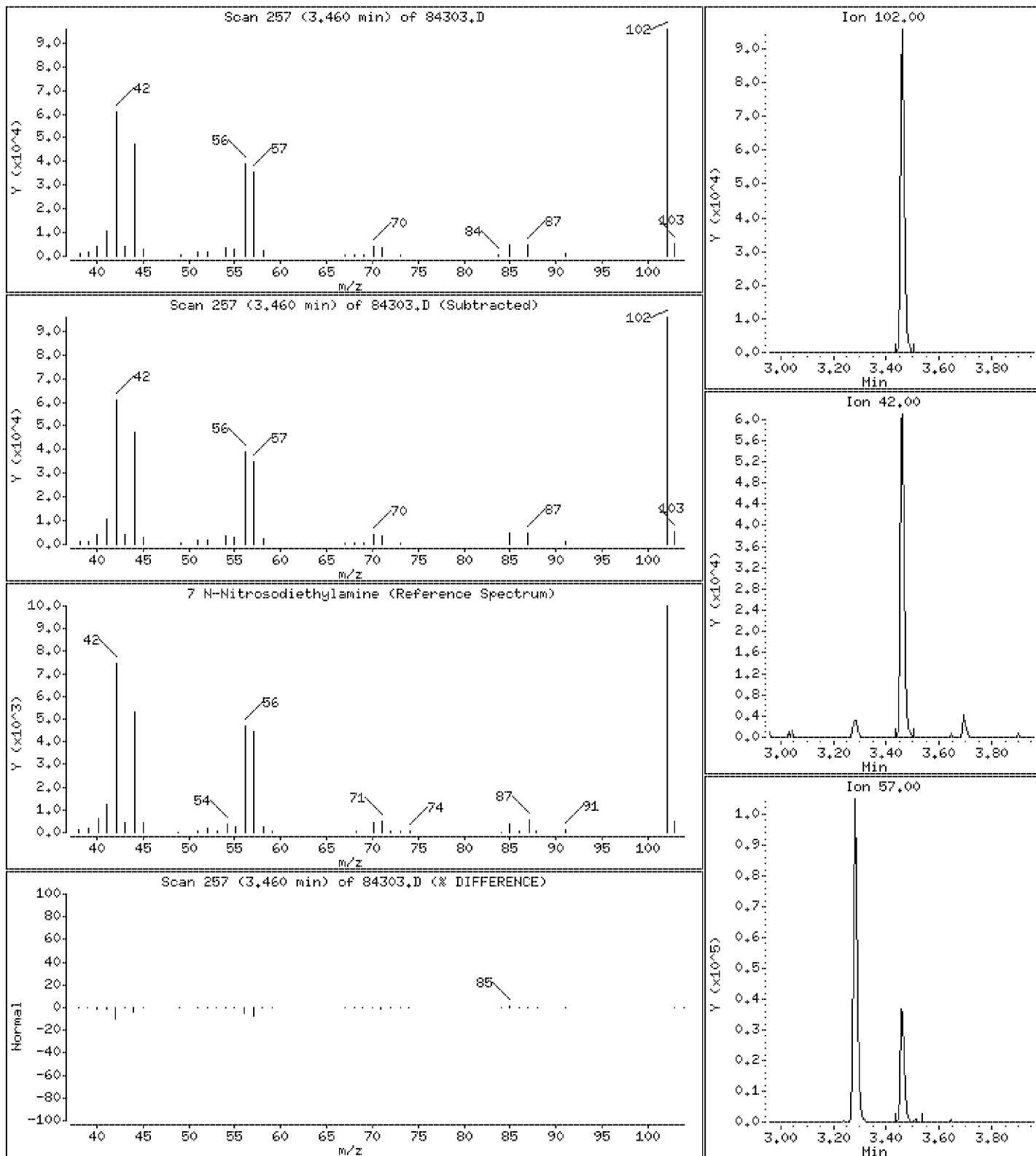
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

7 N-Nitrosodiethylamine

Concentration: 1160 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

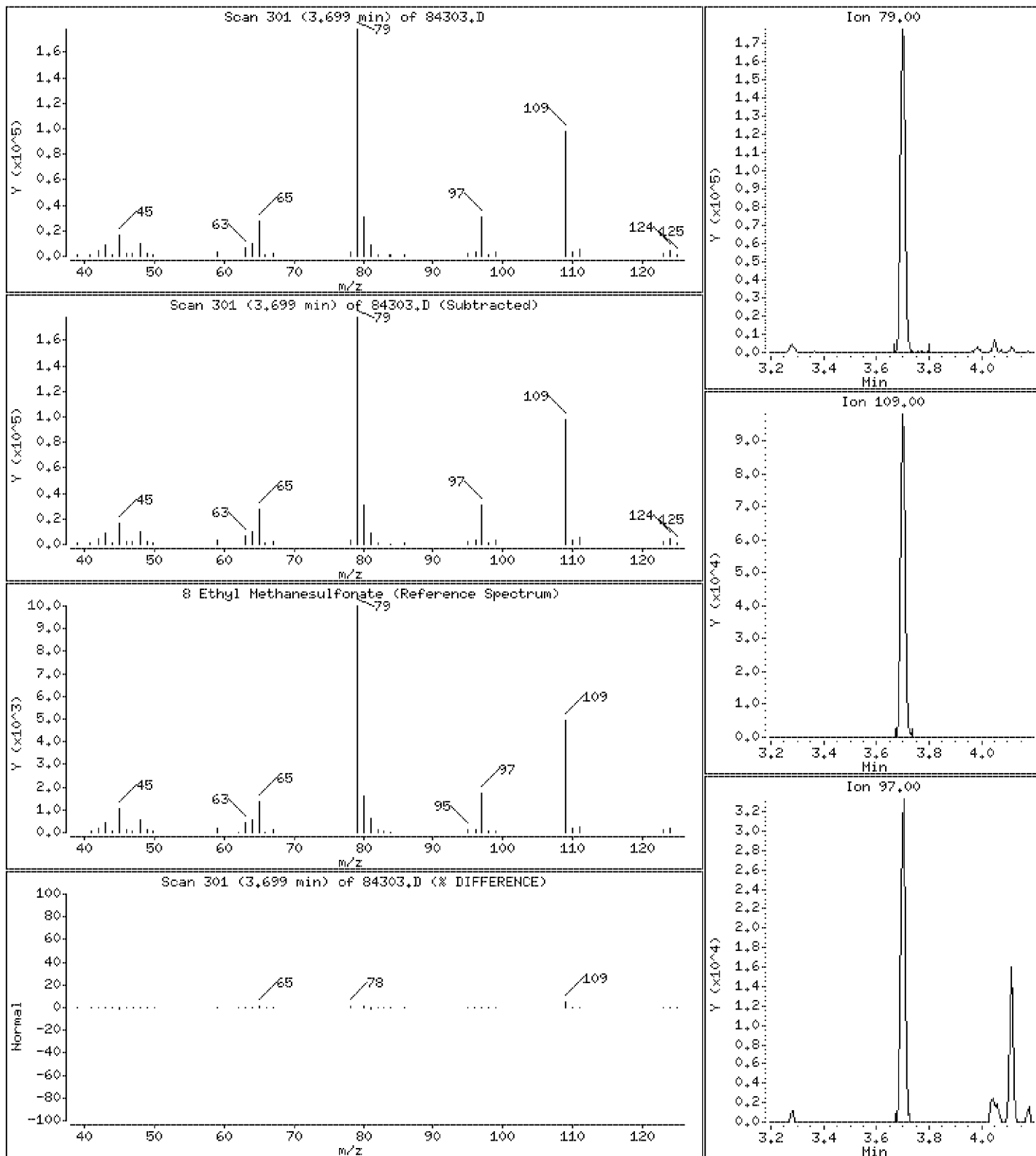
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

8 Ethyl Methanesulfonate

Concentration: 1290 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

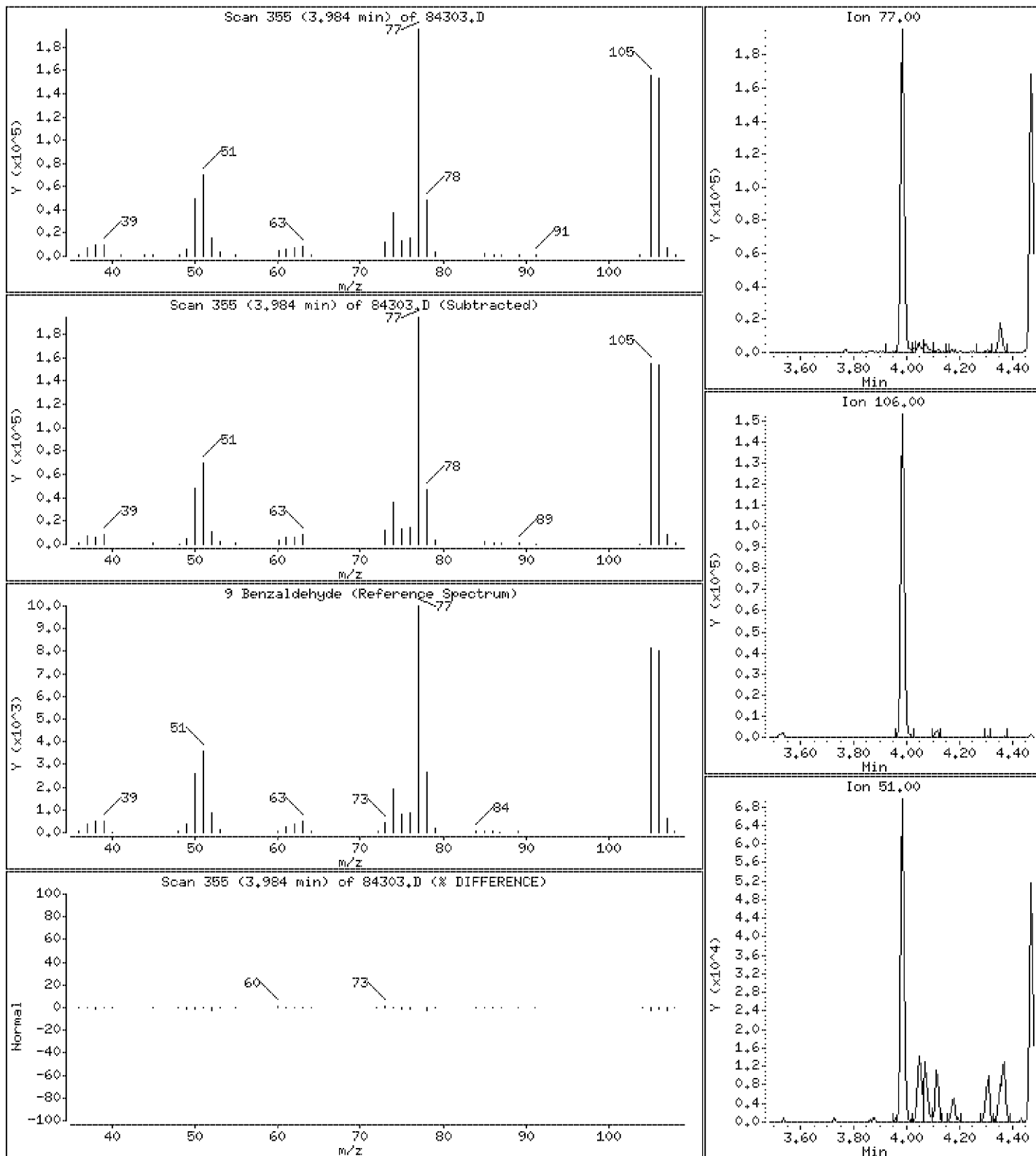
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

9 Benzaldehyde

Concentration: 1170 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

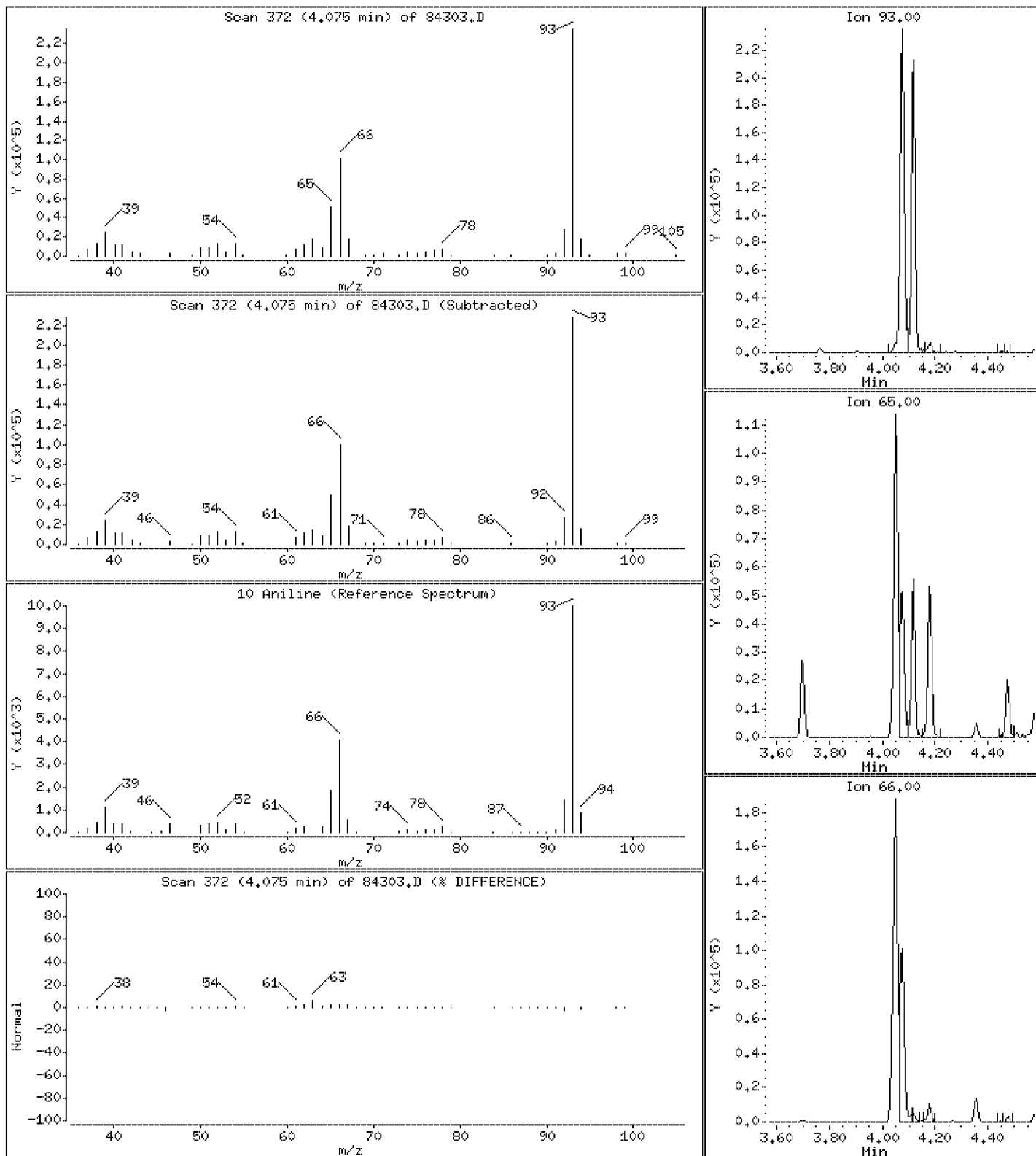
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

10 Aniline

Concentration: 1020 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

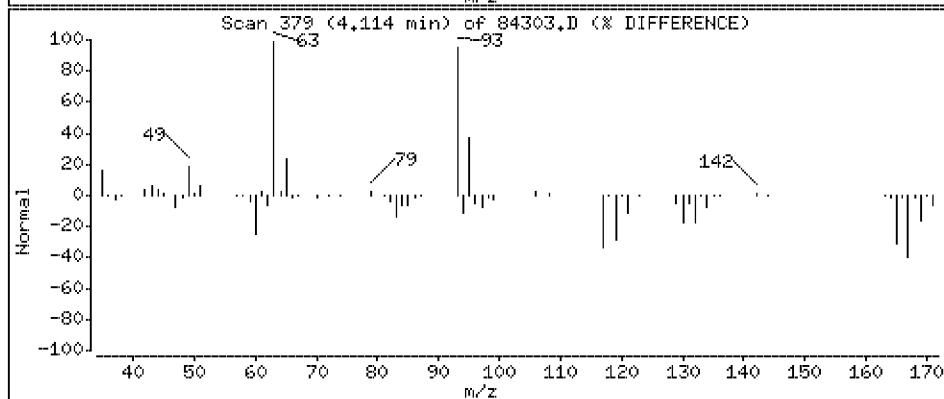
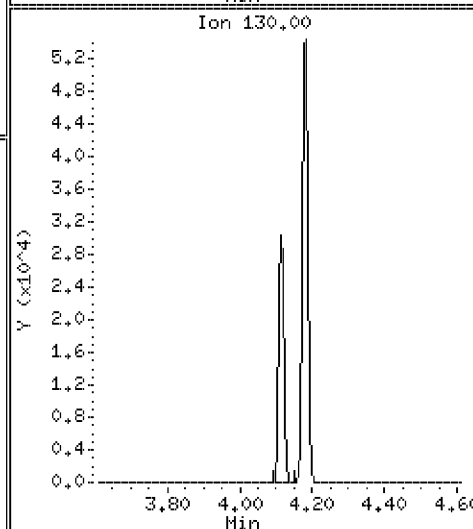
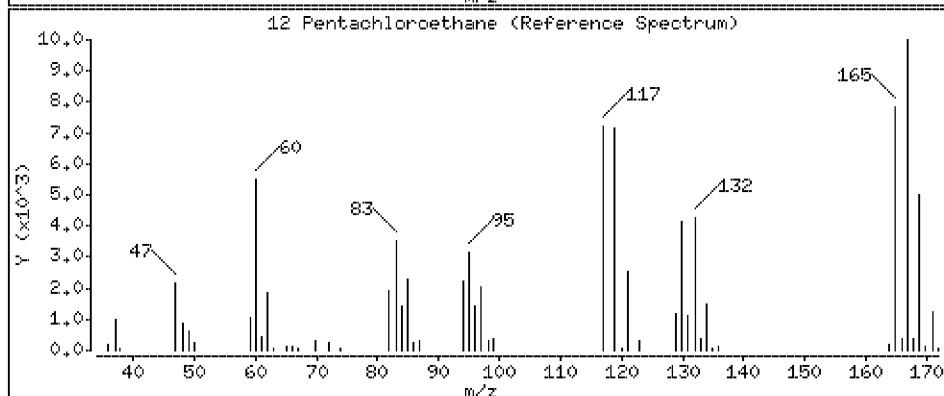
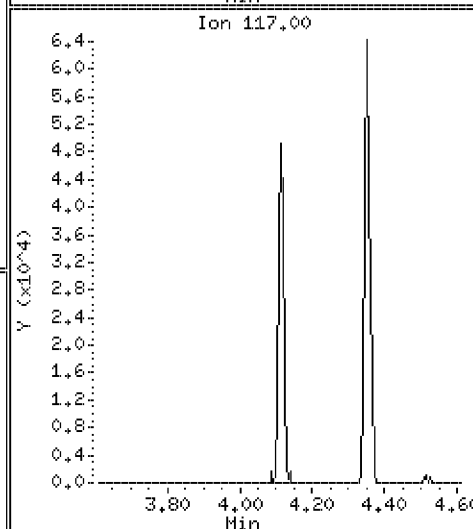
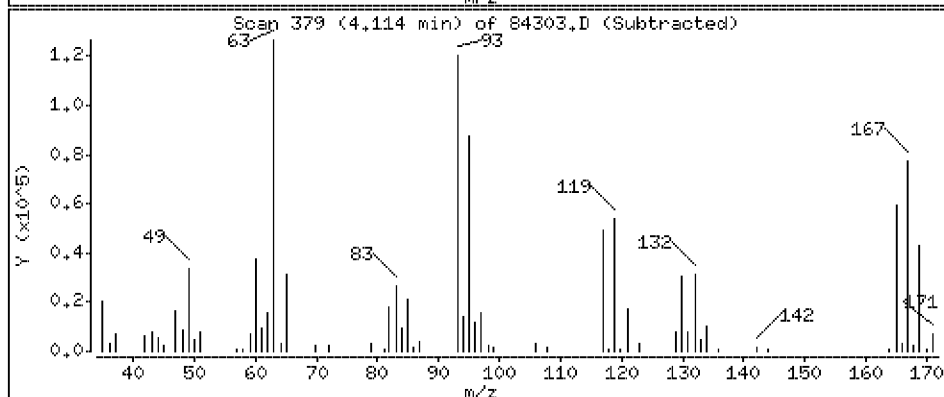
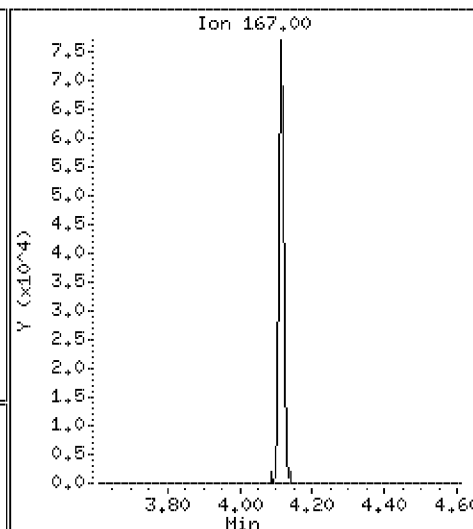
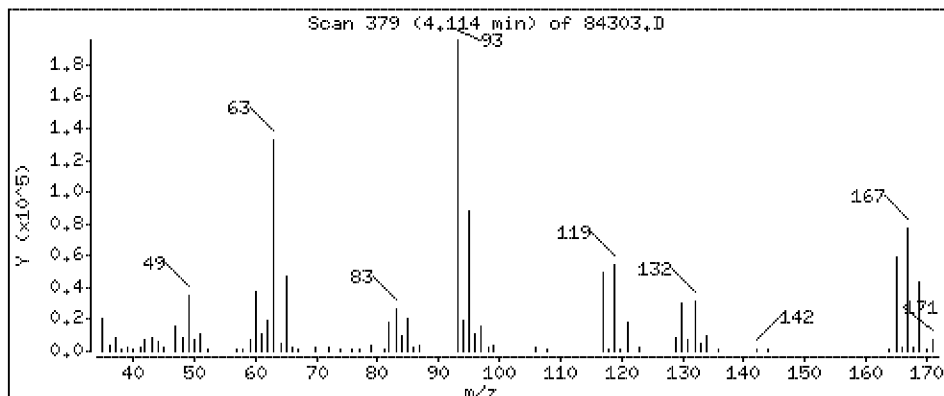
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

12 Pentachloroethane

Concentration: 883 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

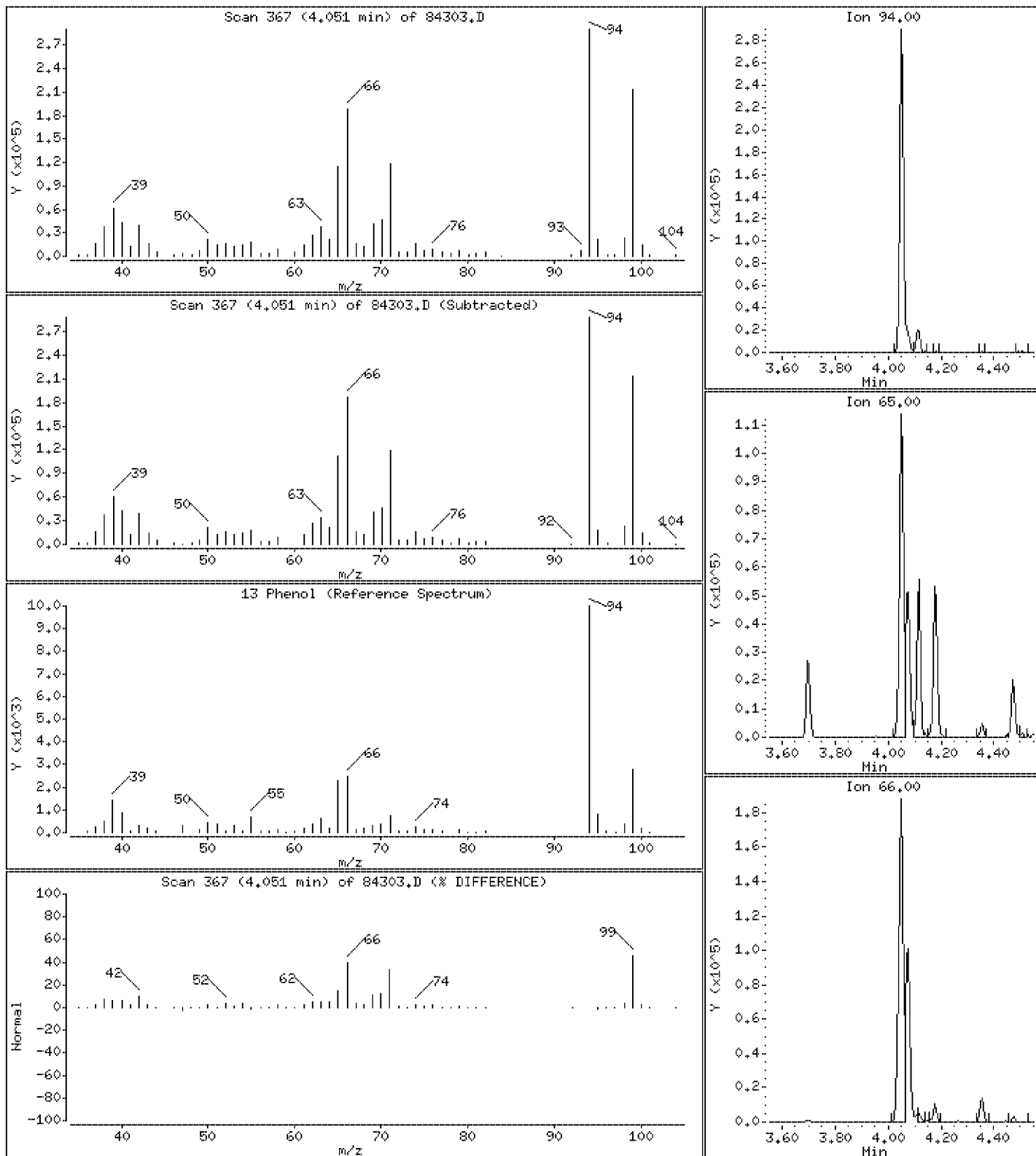
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

13 Phenol

Concentration: 1270 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

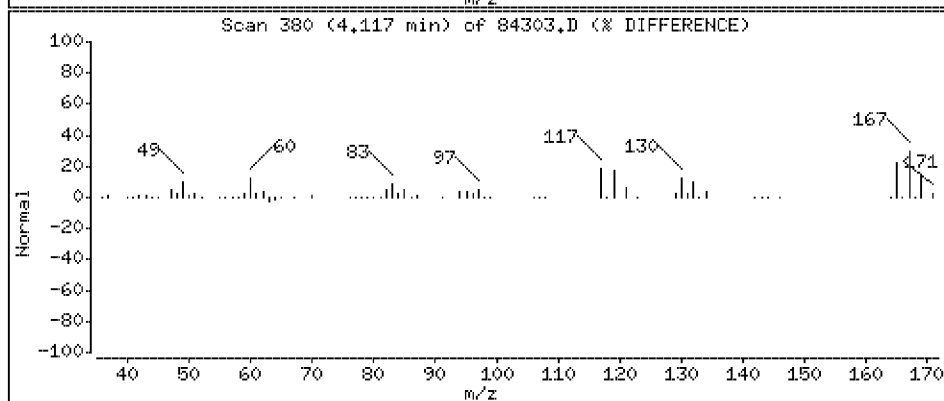
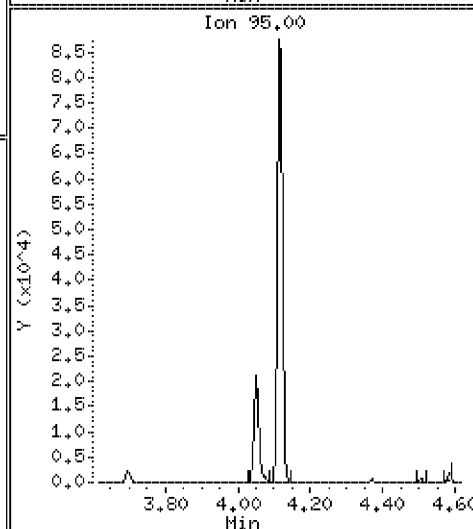
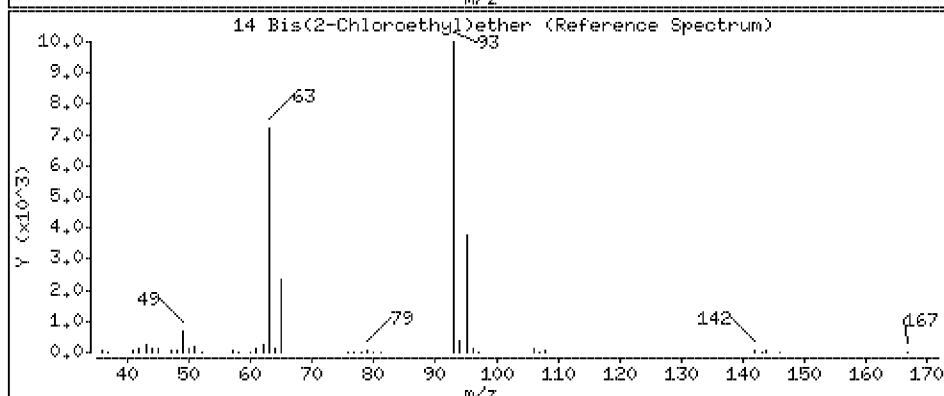
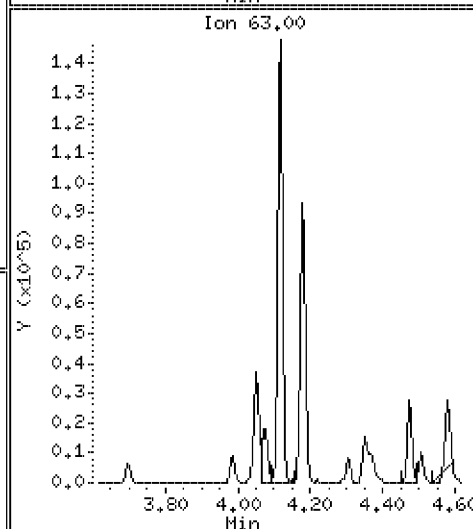
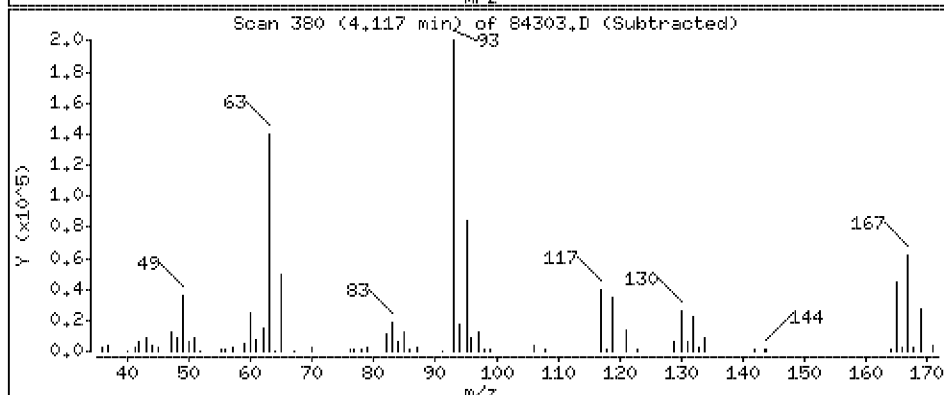
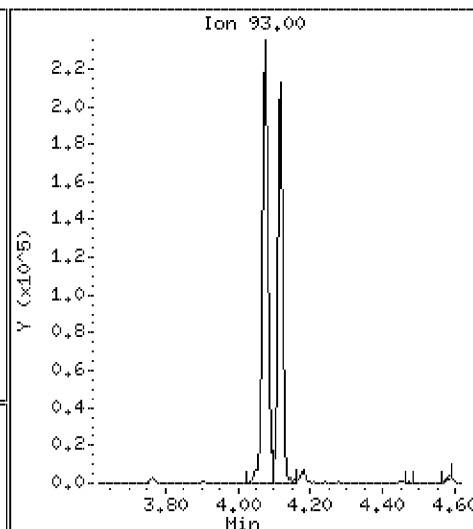
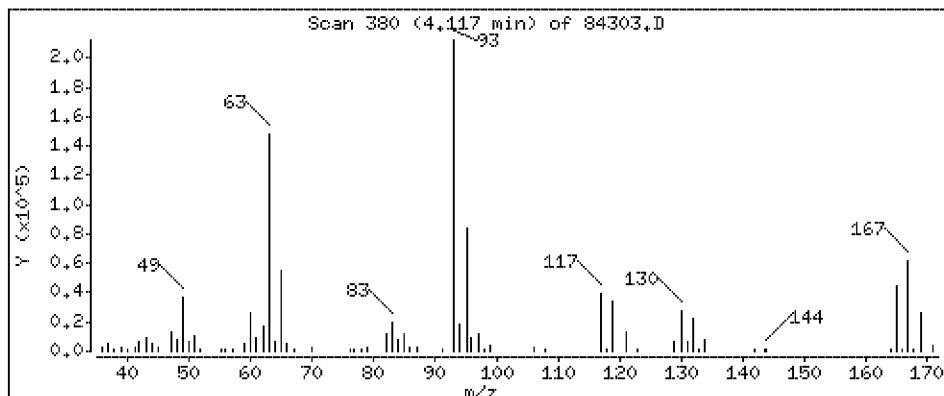
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

14 Bis(2-Chloroethyl)ether

Concentration: 1380 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

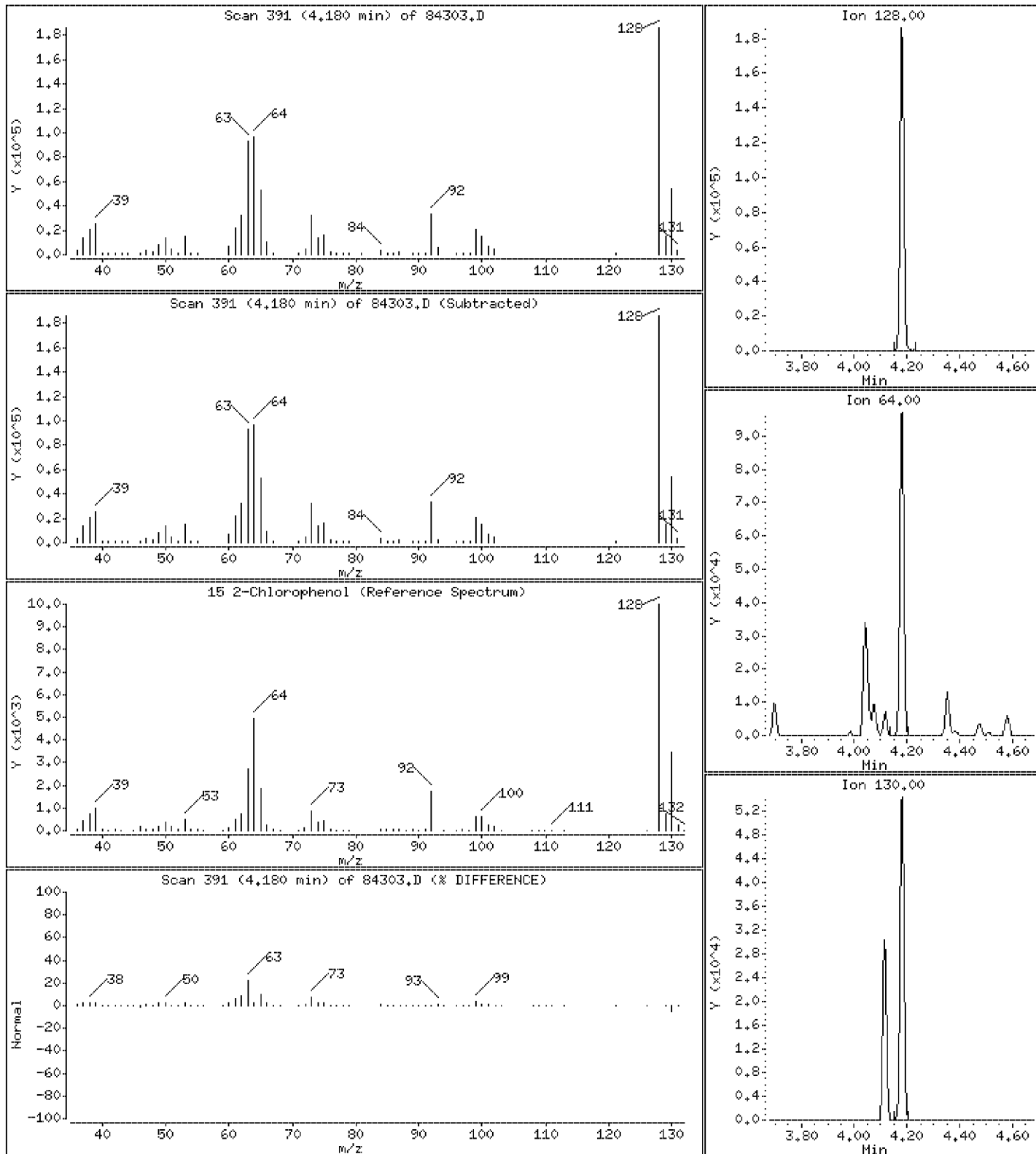
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

15 2-Chlorophenol

Concentration: 1220 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

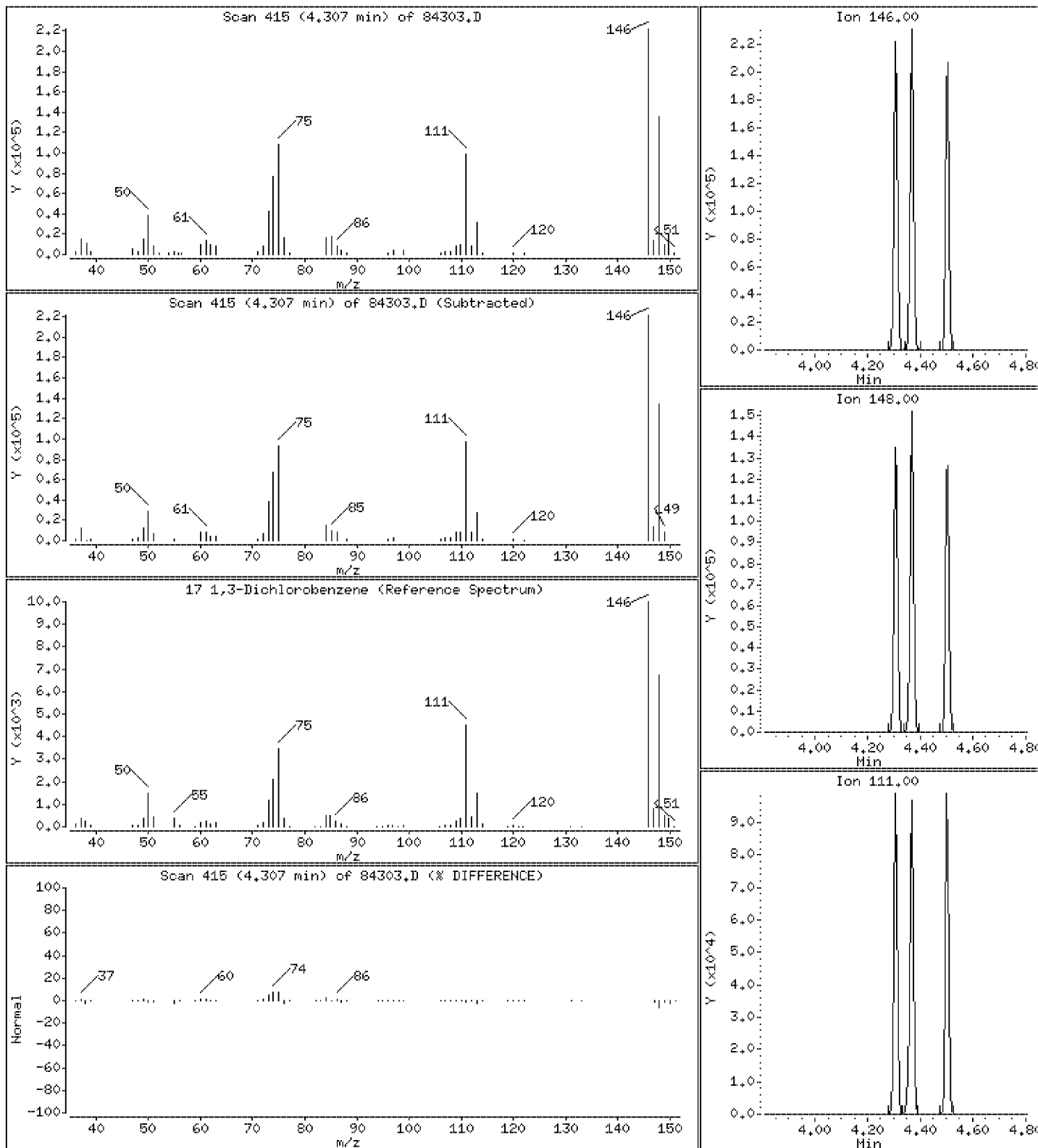
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

17 1,3-Dichlorobenzene

Concentration: 1070 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

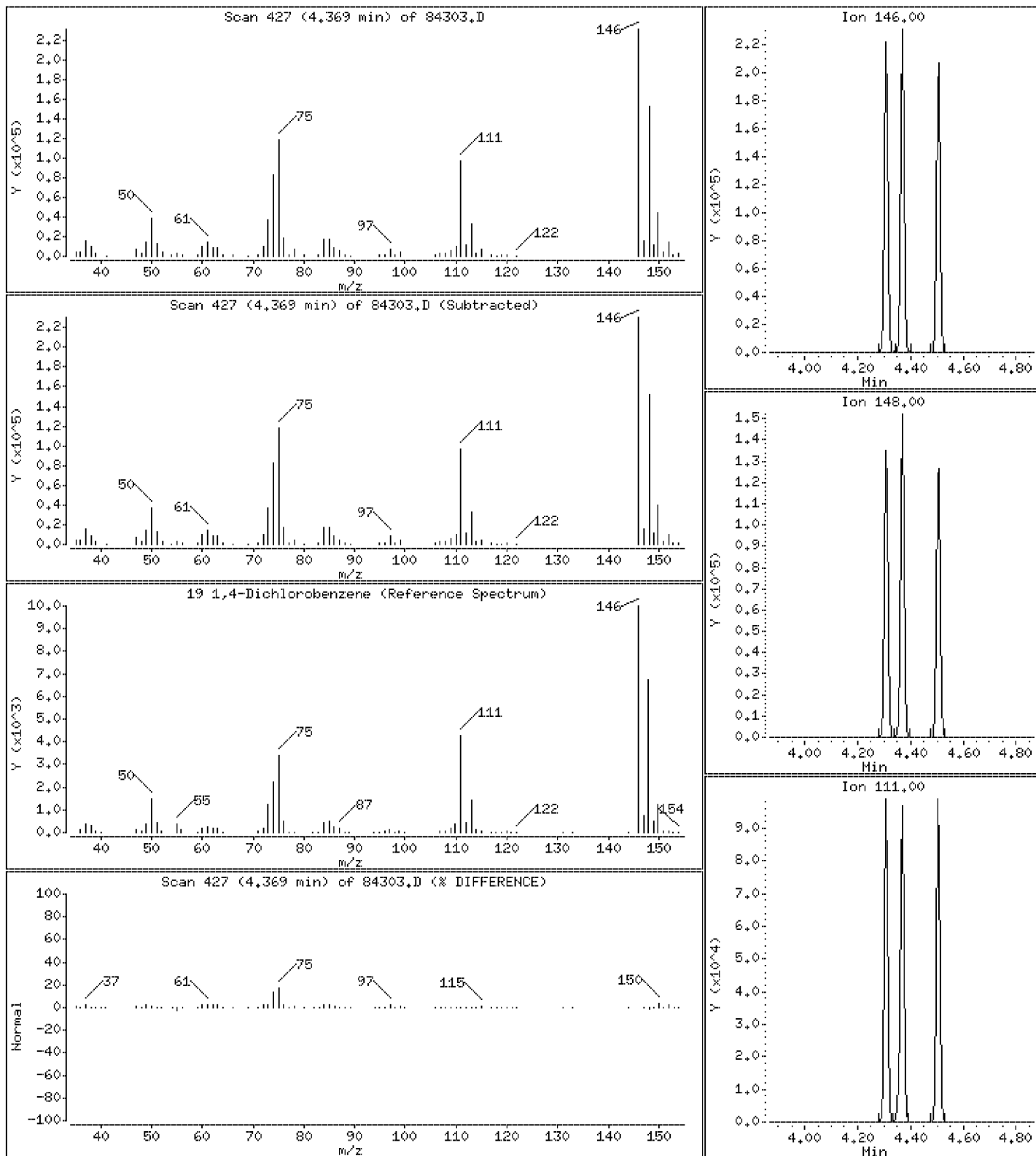
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

19 1,4-Dichlorobenzene

Concentration: 1060 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

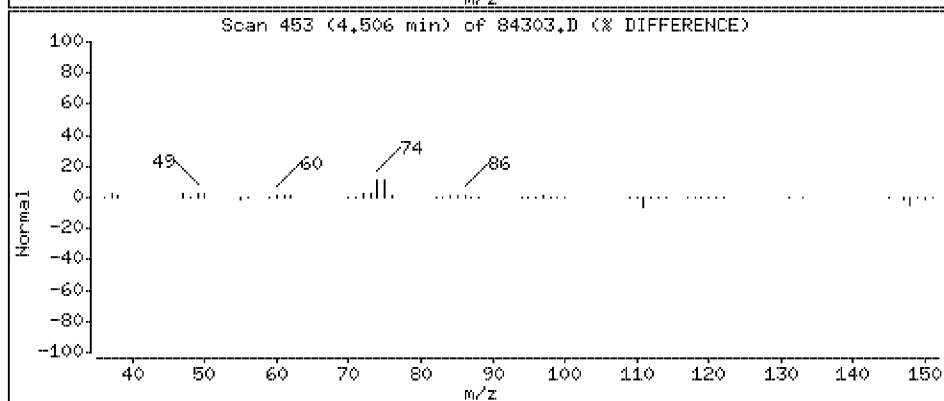
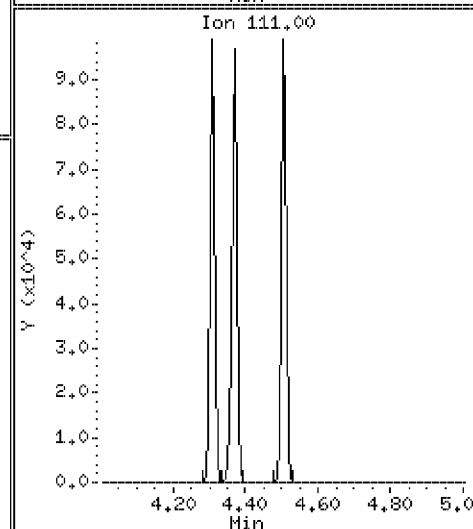
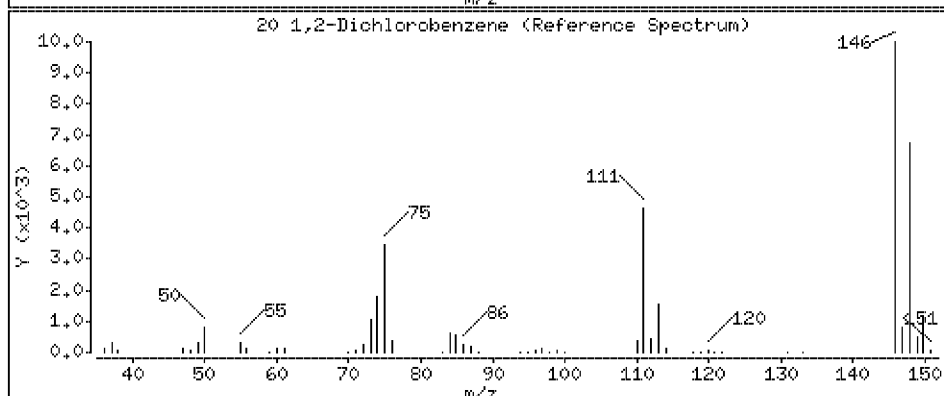
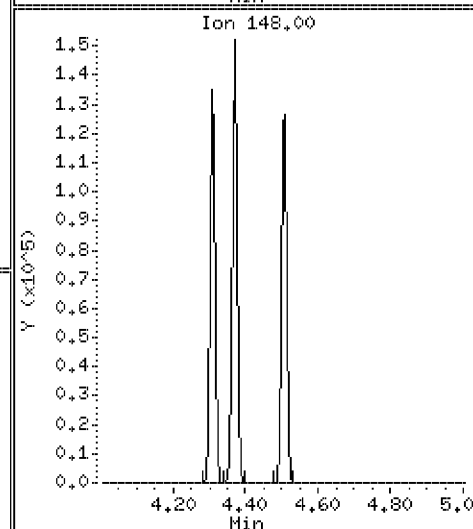
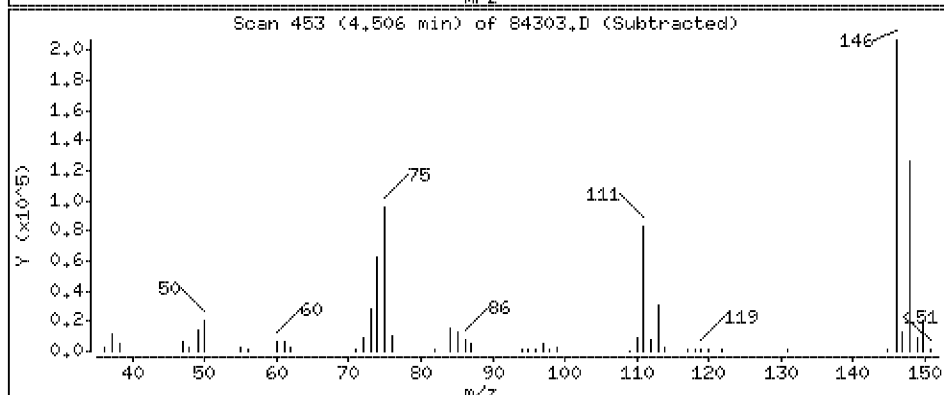
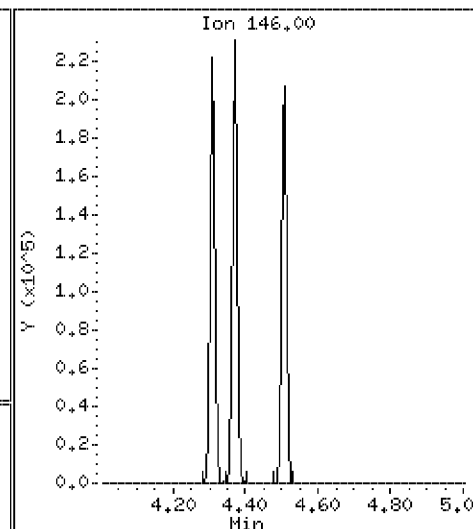
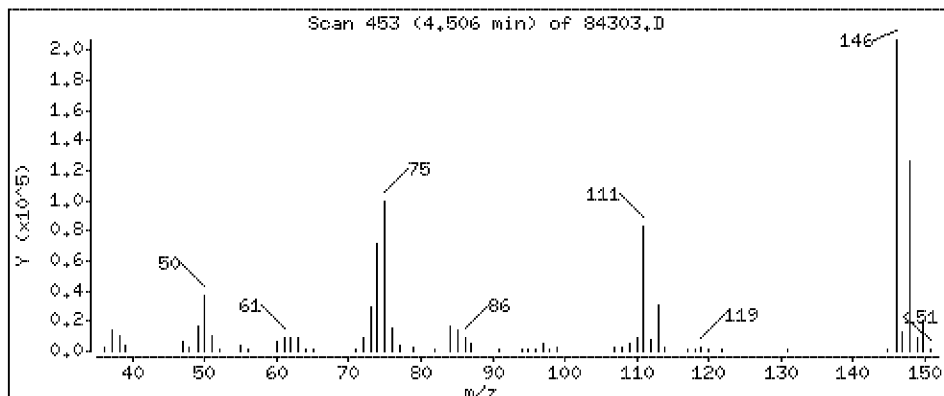
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

20 1,2-Dichlorobenzene

Concentration: 1080 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

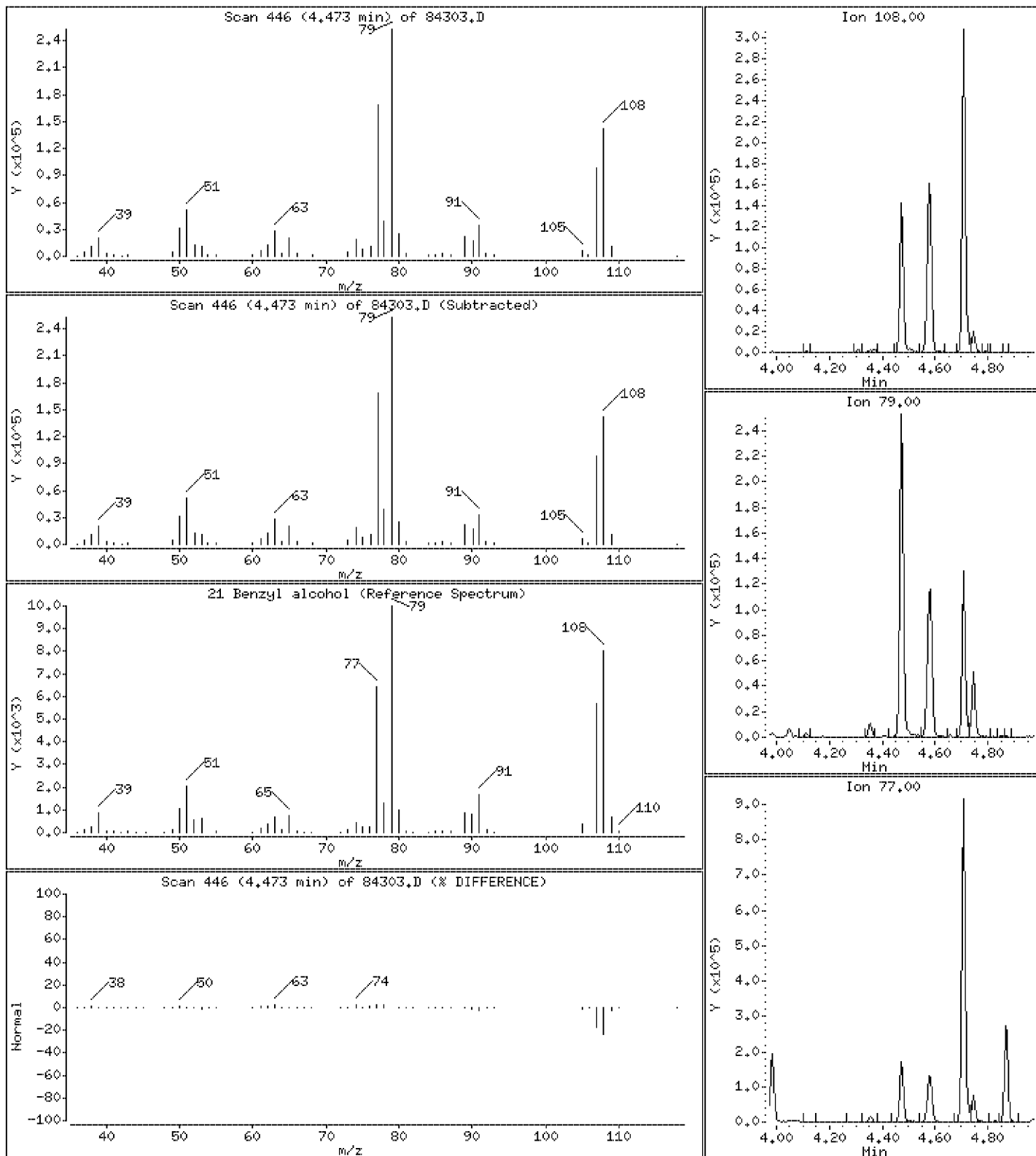
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

21 Benzyl alcohol

Concentration: 1280 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

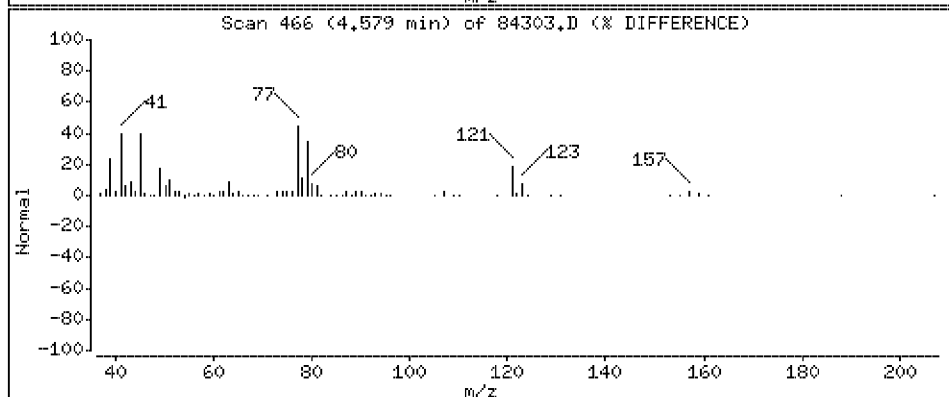
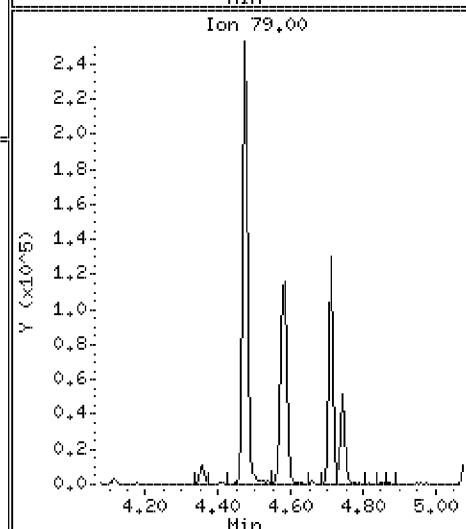
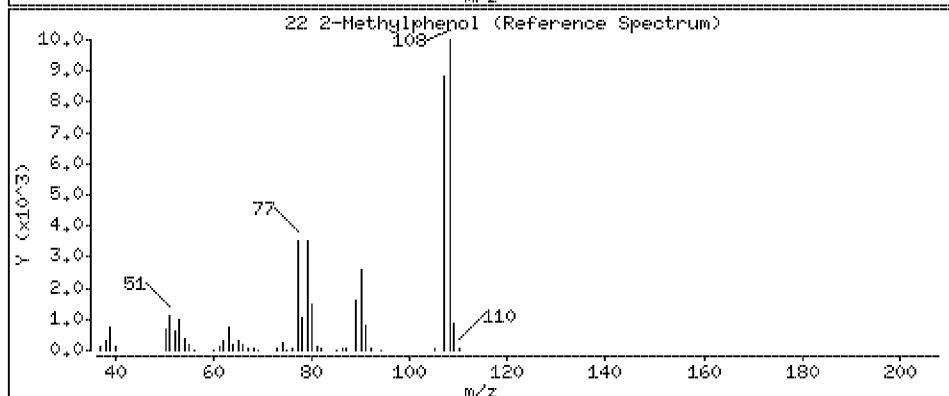
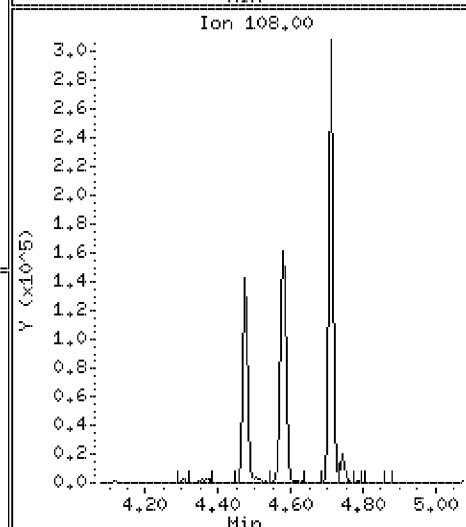
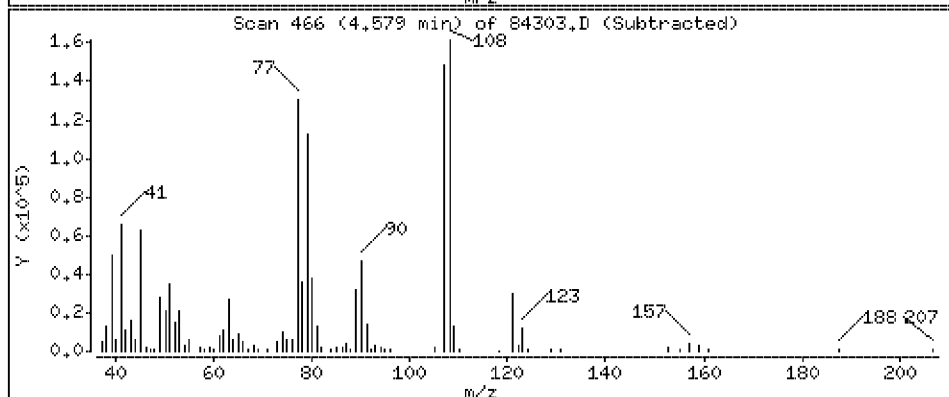
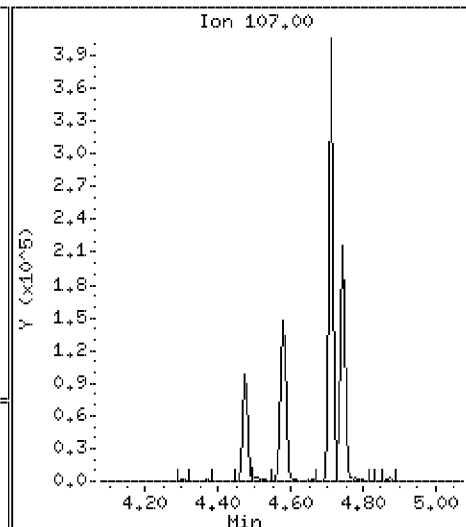
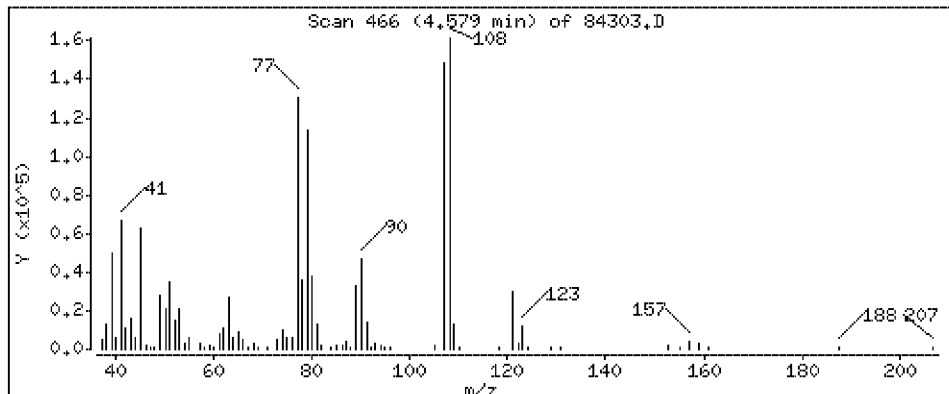
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

22 2-Methylphenol

Concentration: 1180 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

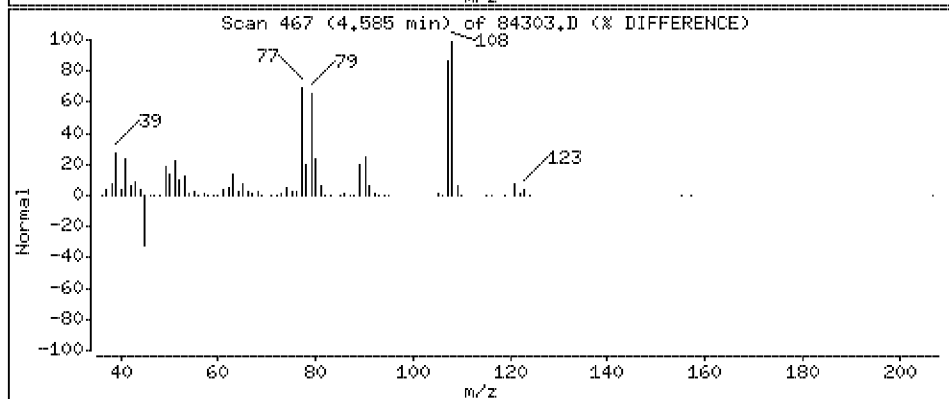
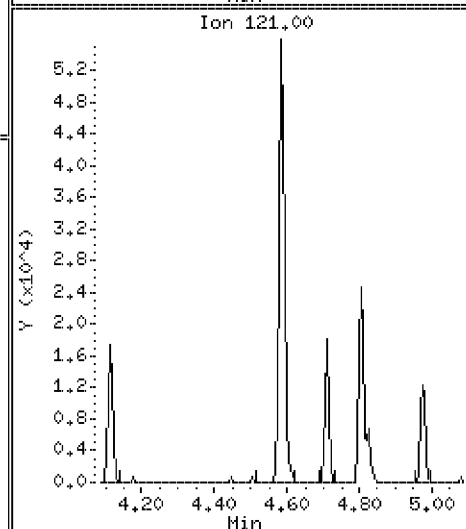
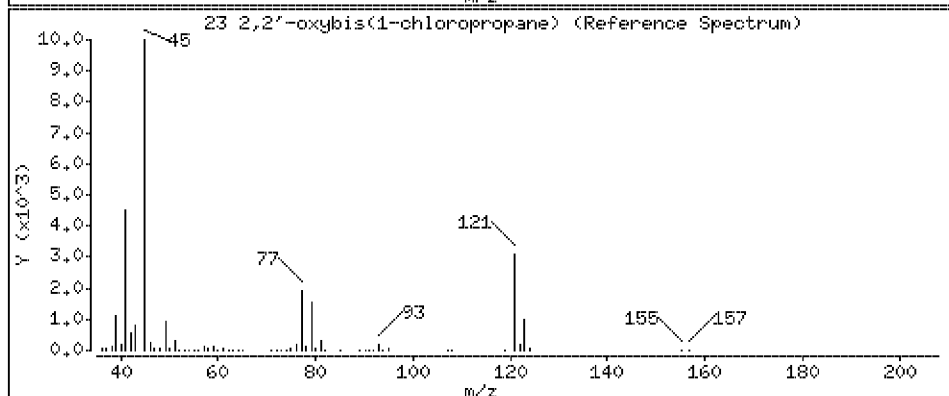
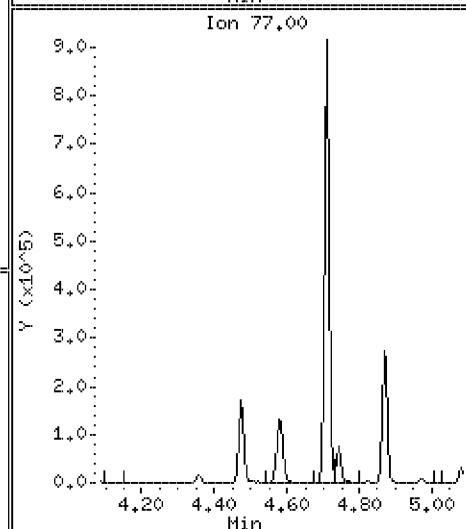
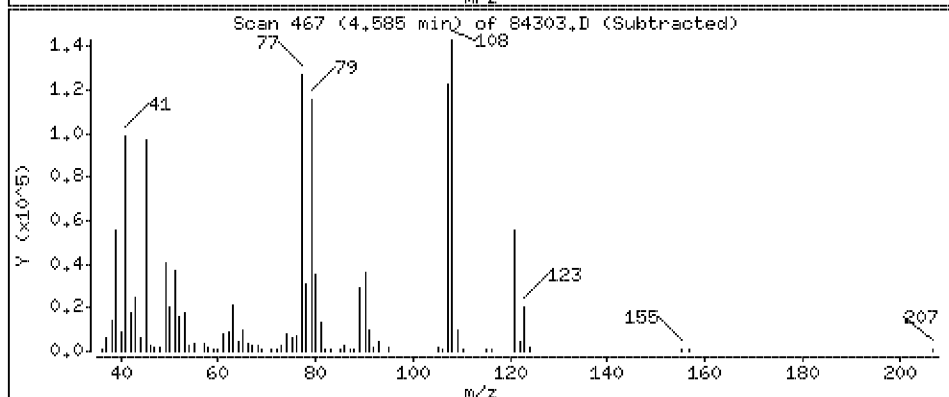
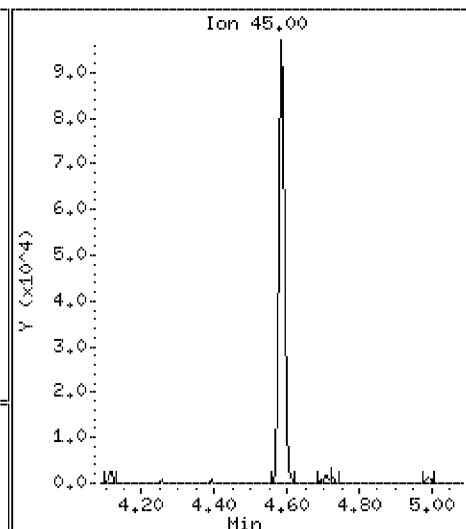
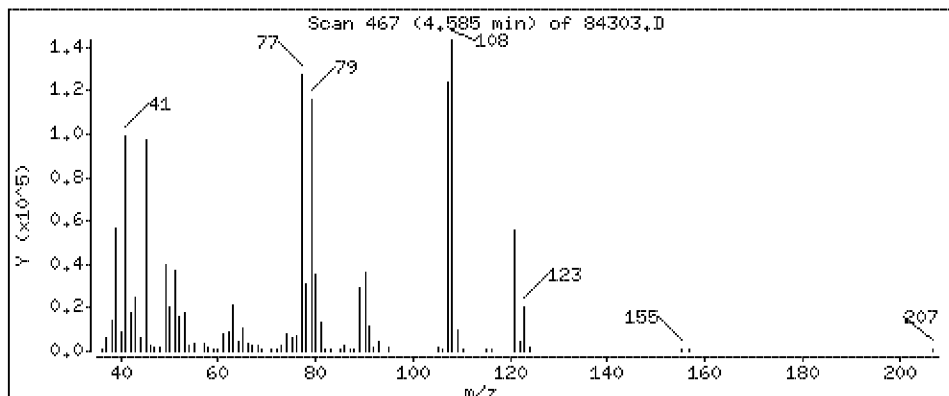
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

23 2,2'-oxybis(1-chloropropane)

Concentration: 1030 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

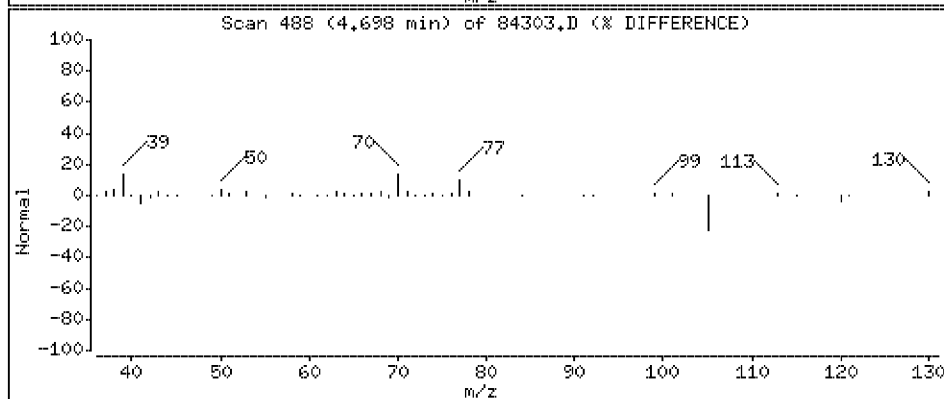
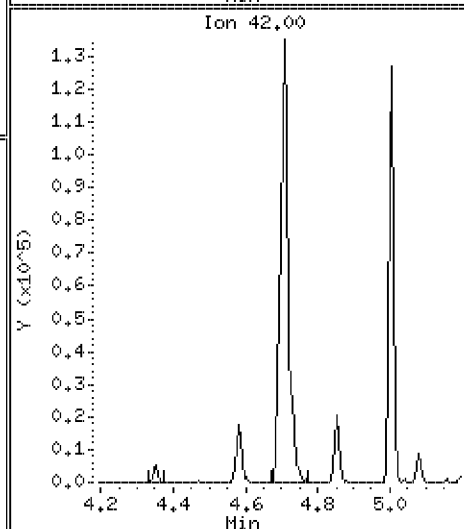
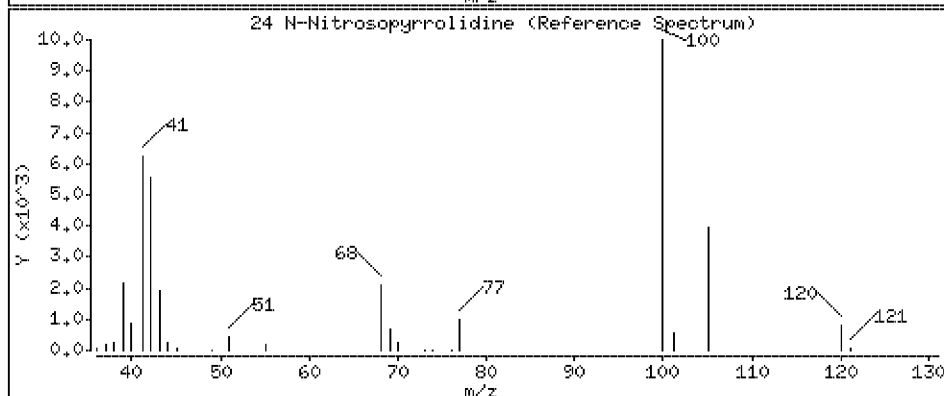
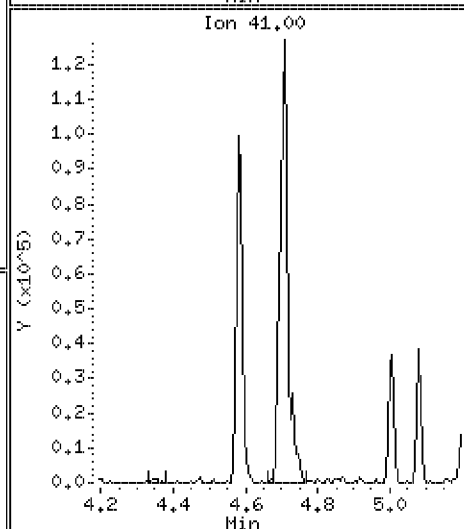
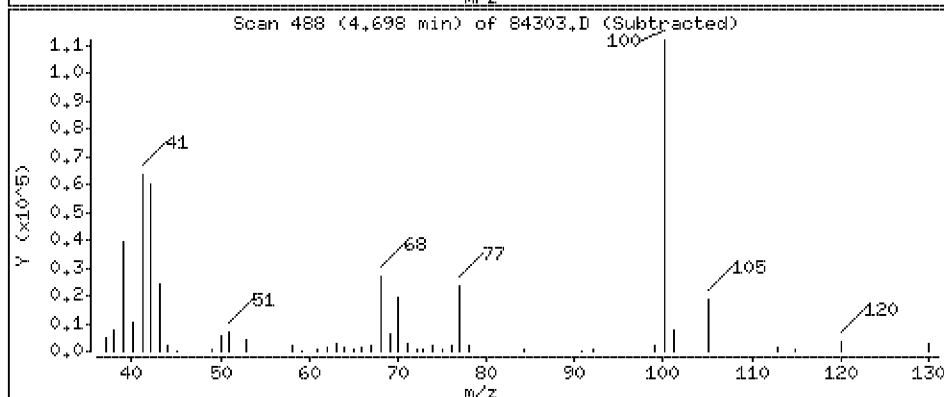
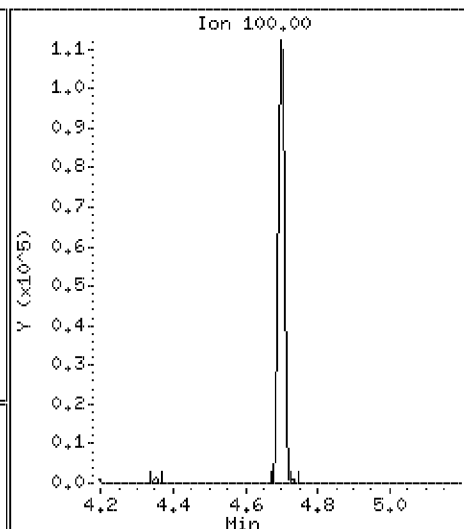
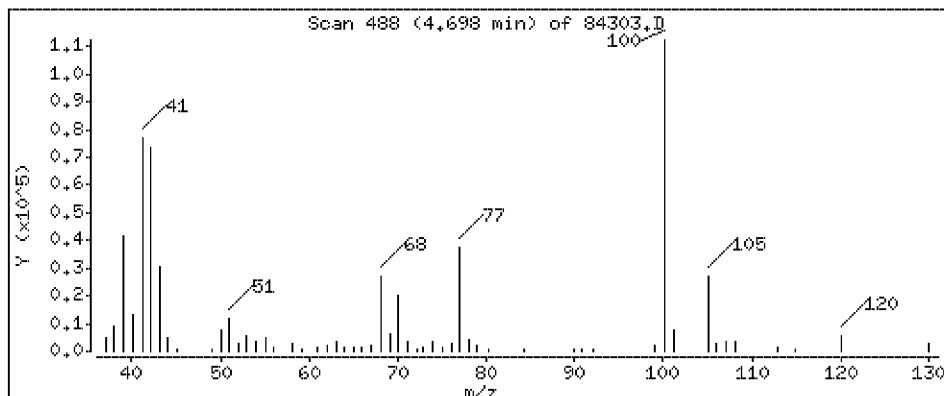
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

24 N-Nitrosopyrrolidine

Concentration: 1310 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

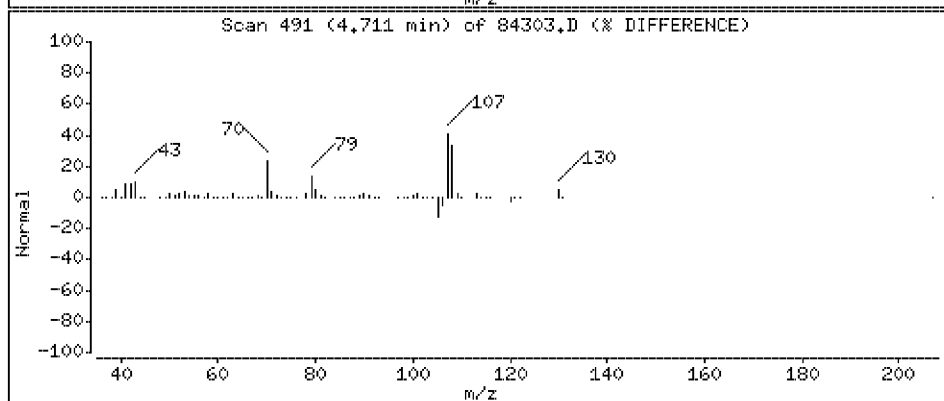
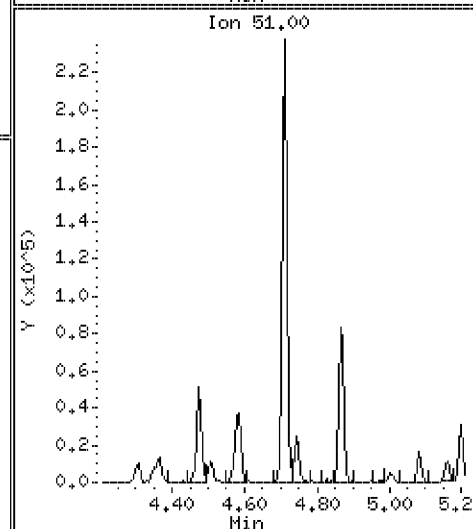
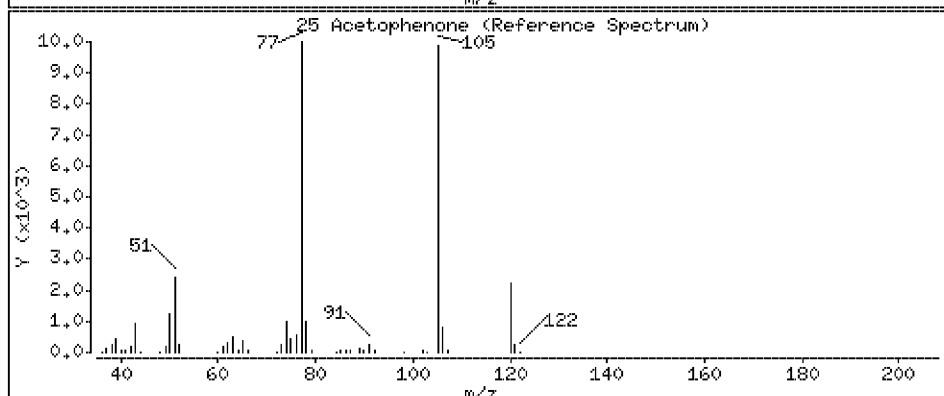
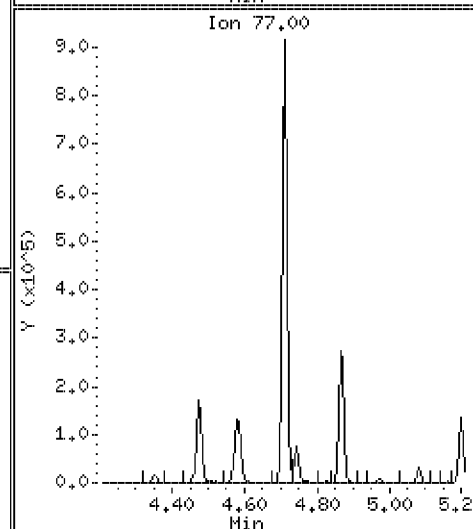
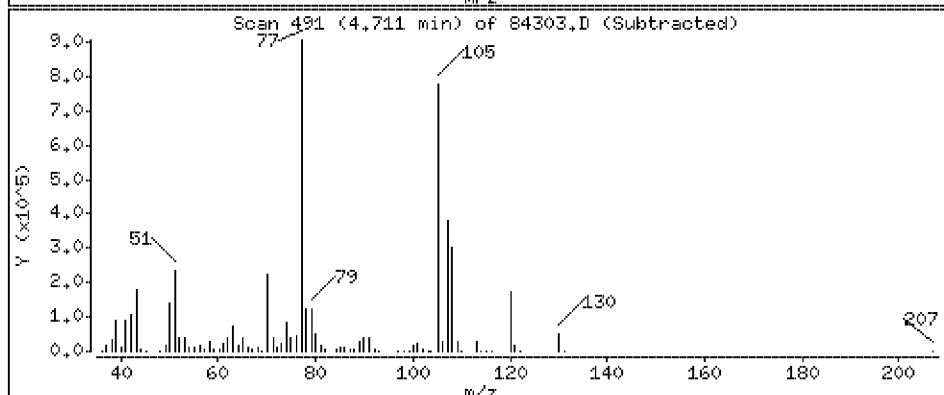
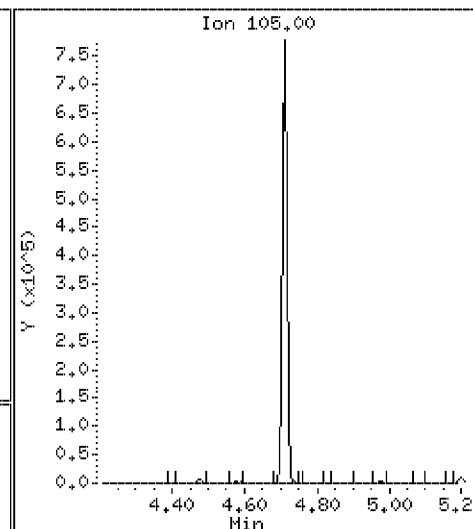
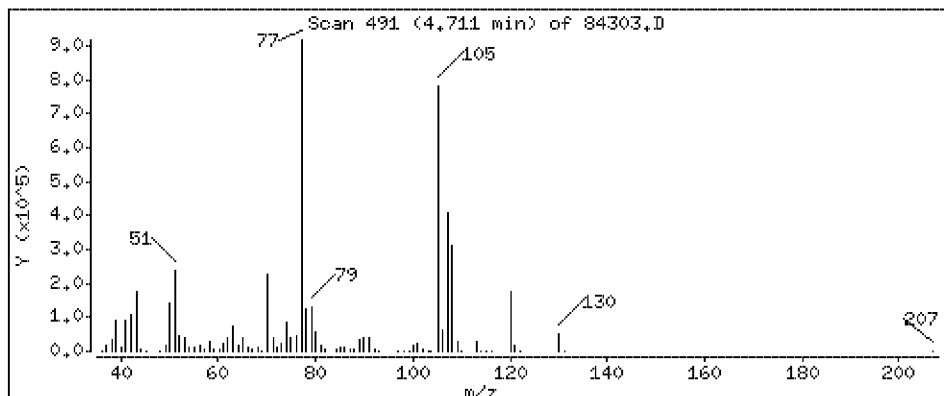
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

25 Acetophenone

Concentration: 2560 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

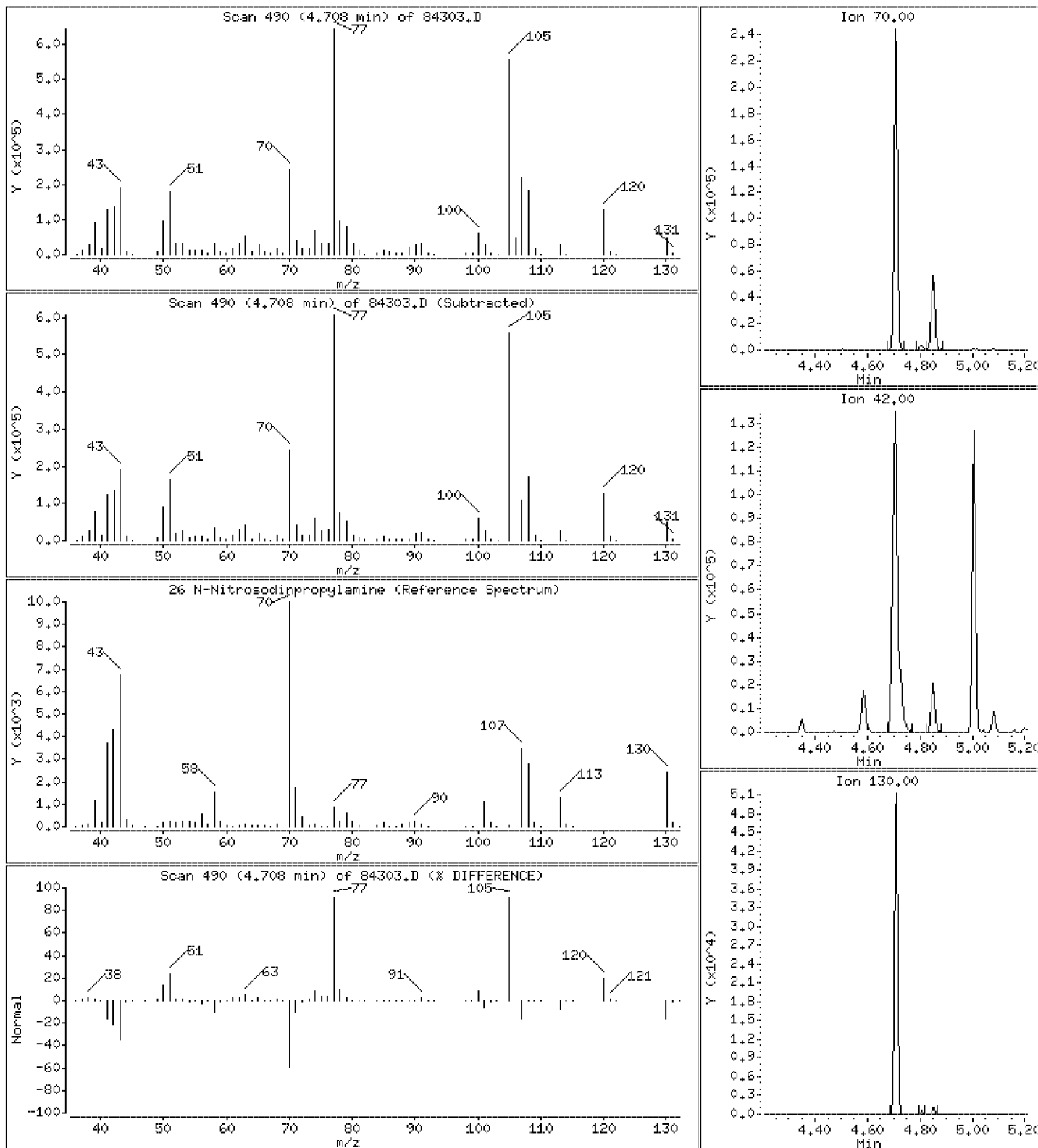
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

26 N-Nitrosodipropylamine

Concentration: 1400 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

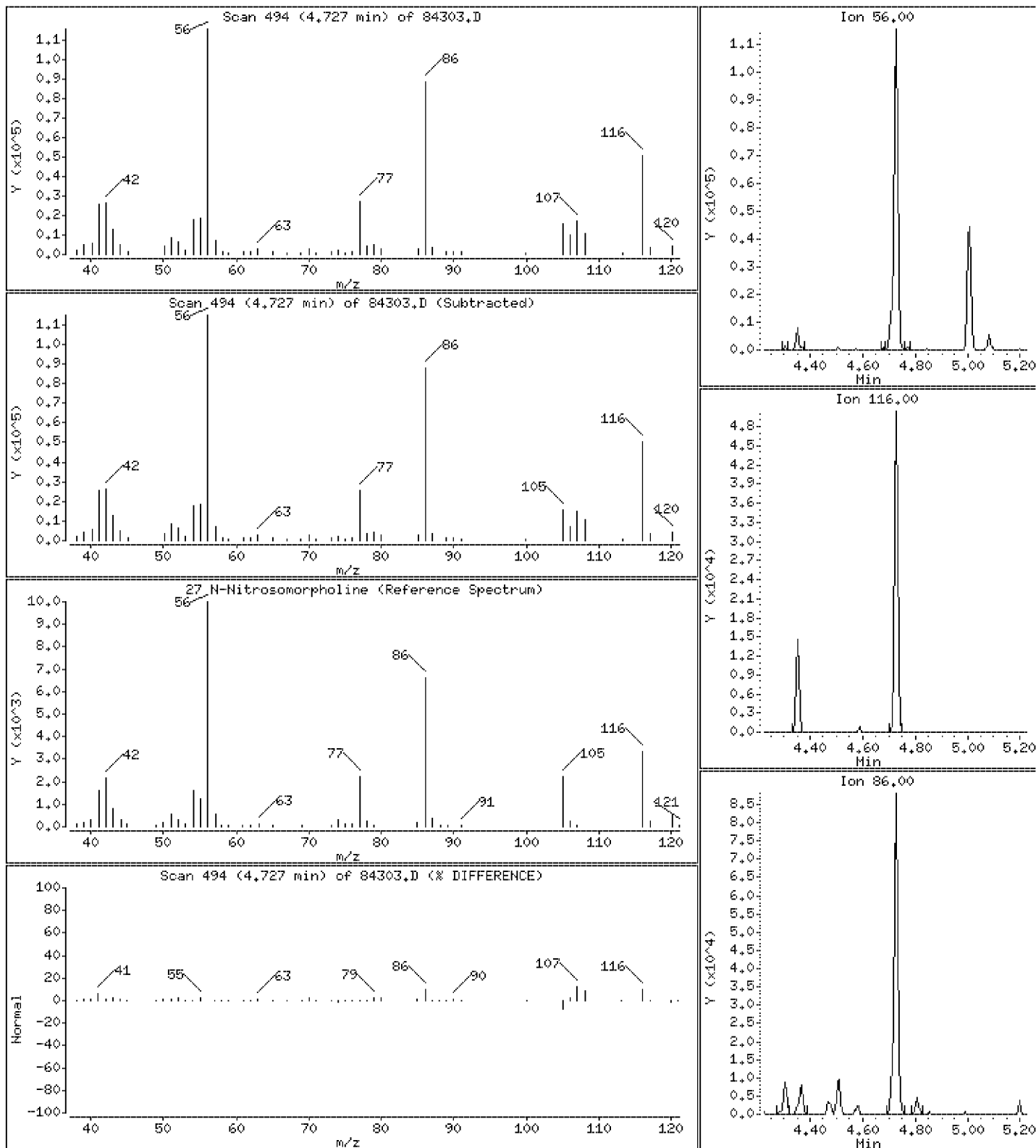
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

27 N-Nitrosomorpholine

Concentration: 1370 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

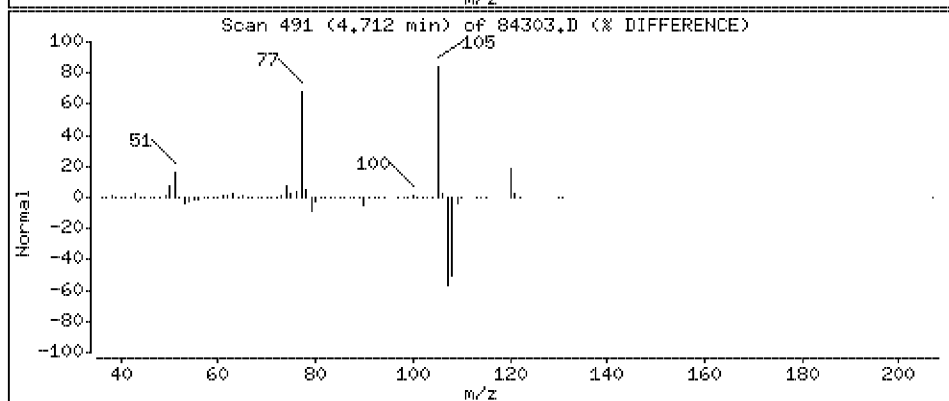
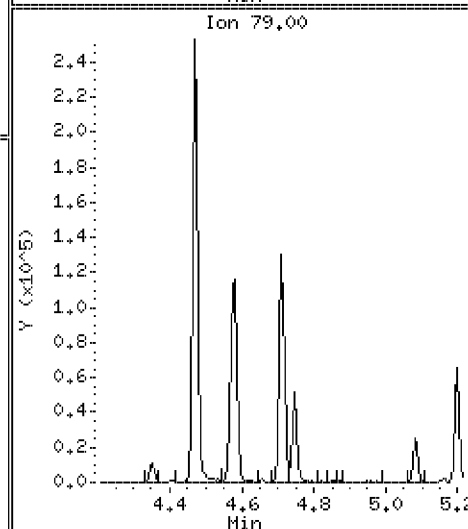
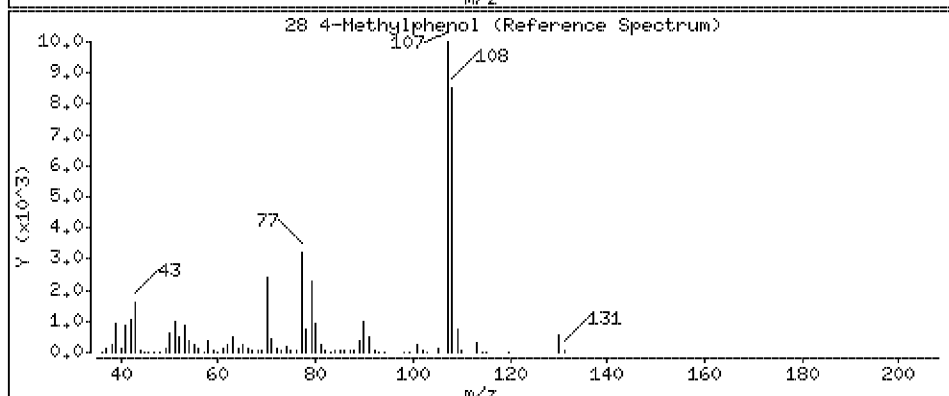
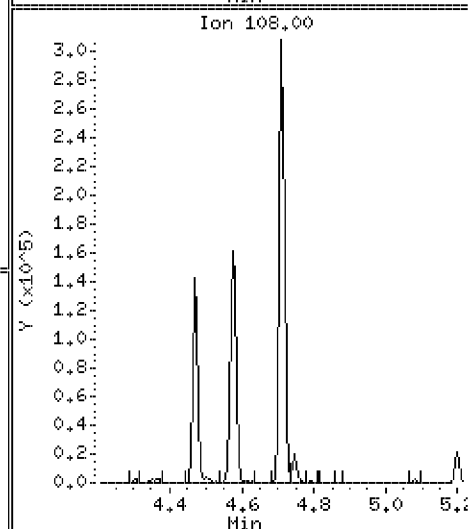
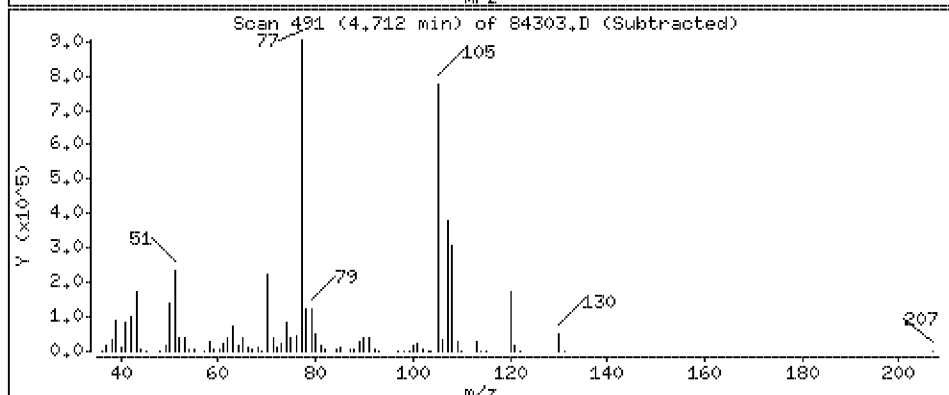
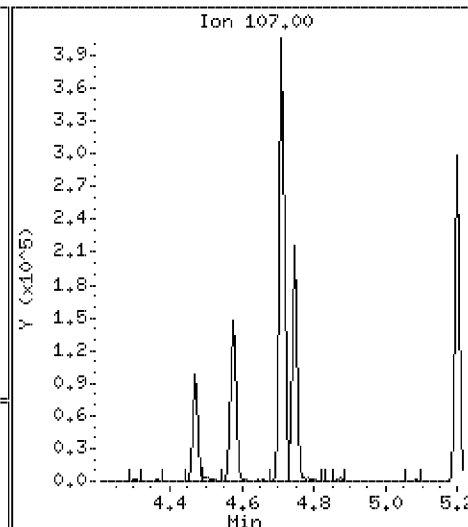
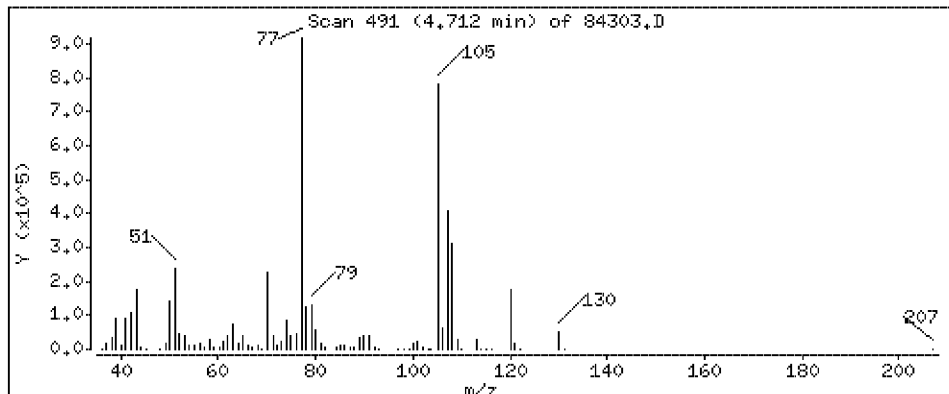
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

28 4-Methylphenol

Concentration: 1540 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

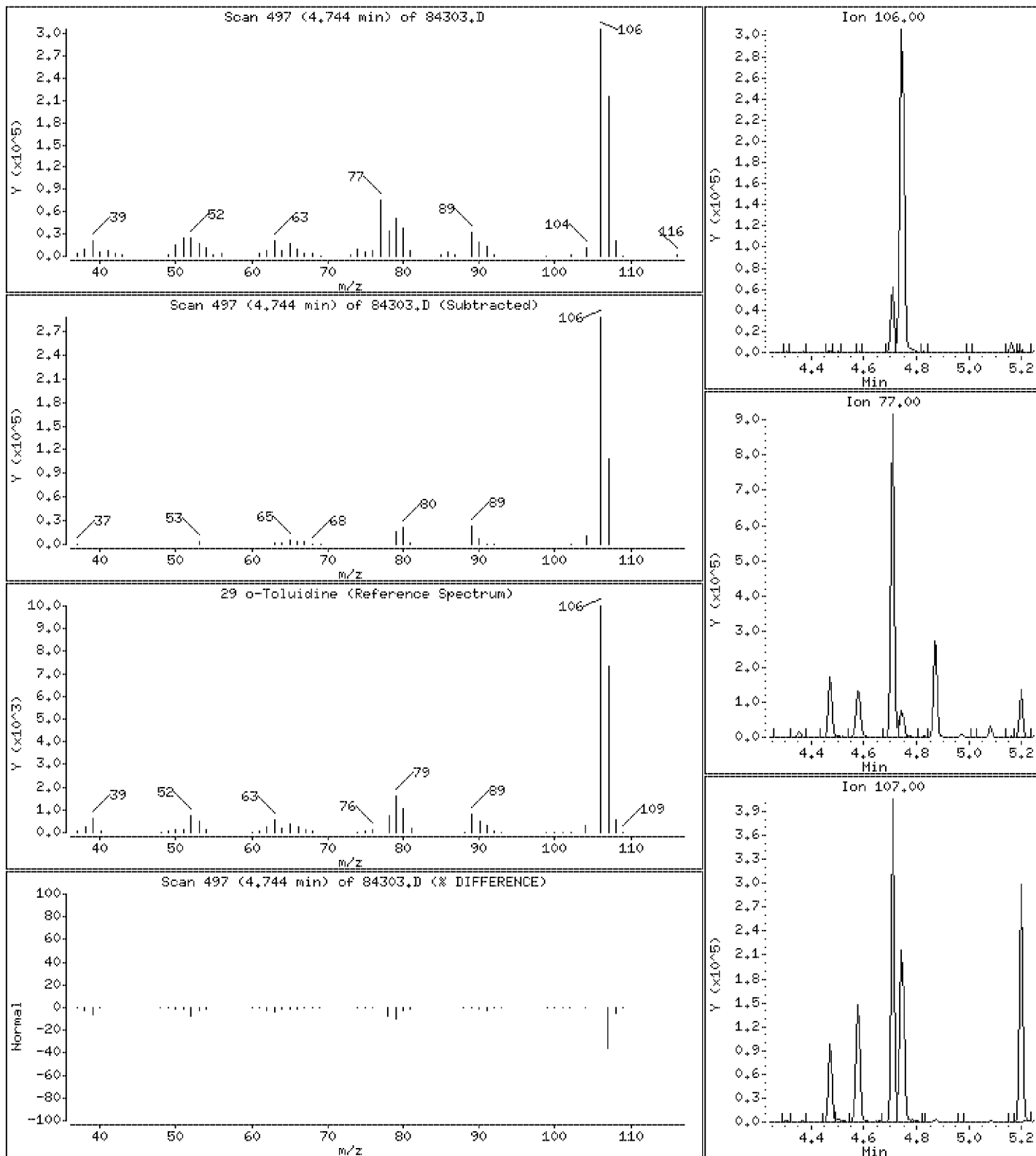
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

29 o-Toluidine

Concentration: 1000 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

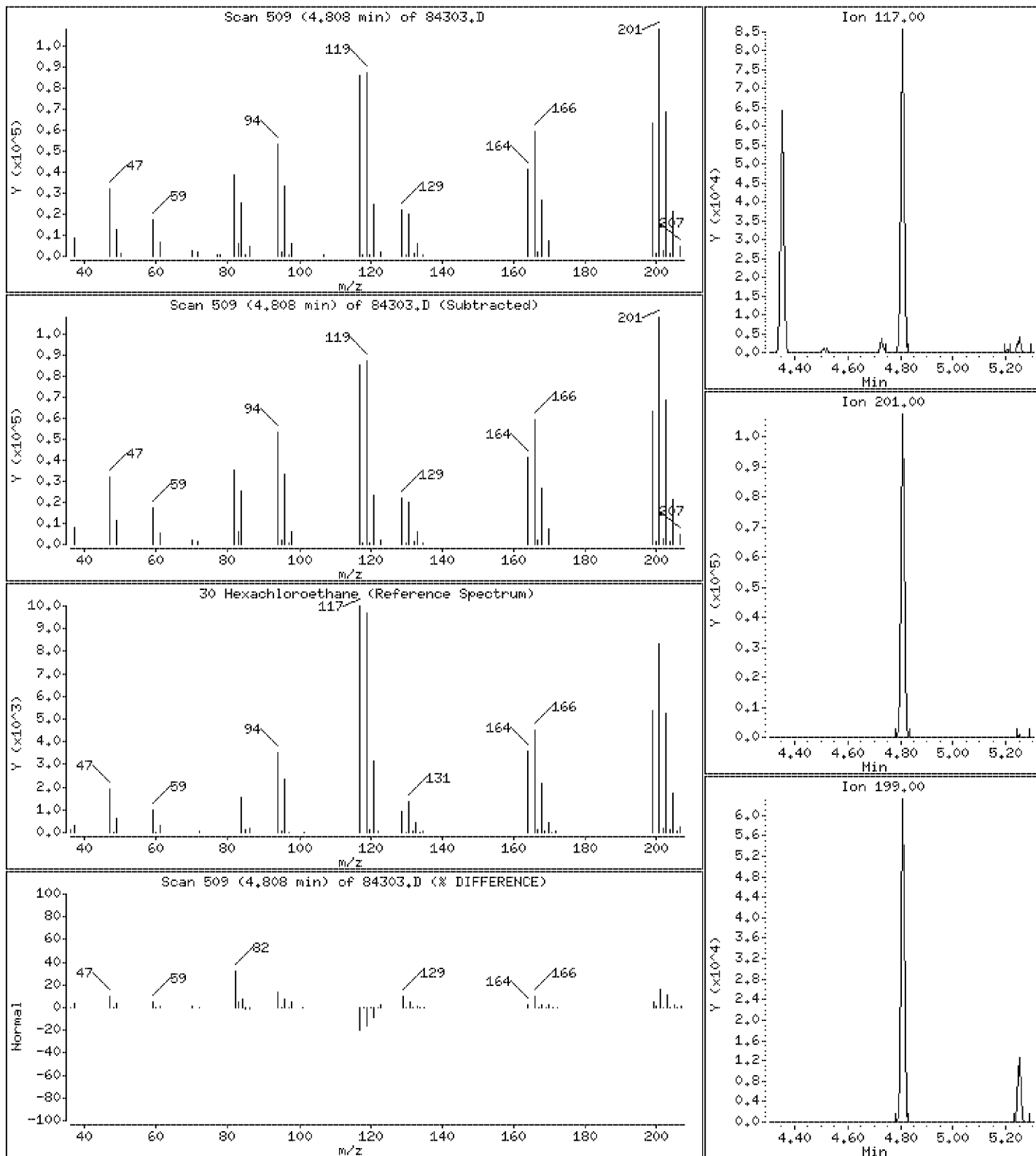
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

30 Hexachloroethane

Concentration: 934 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

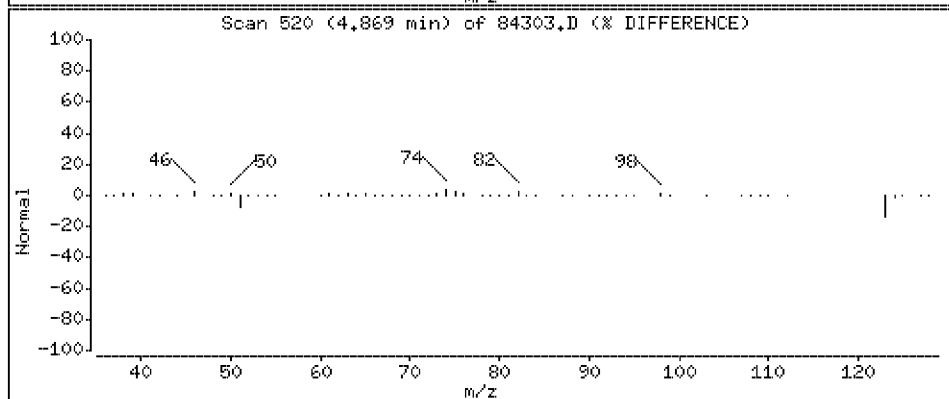
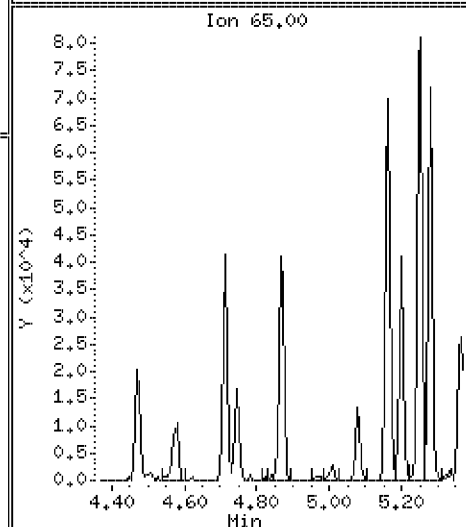
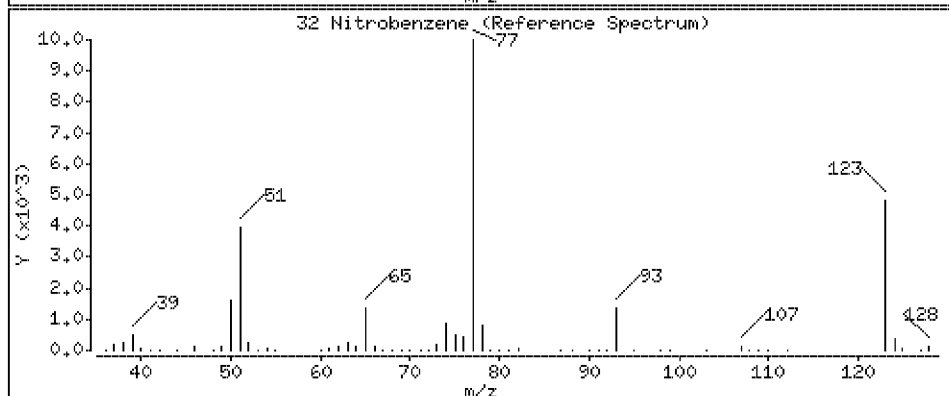
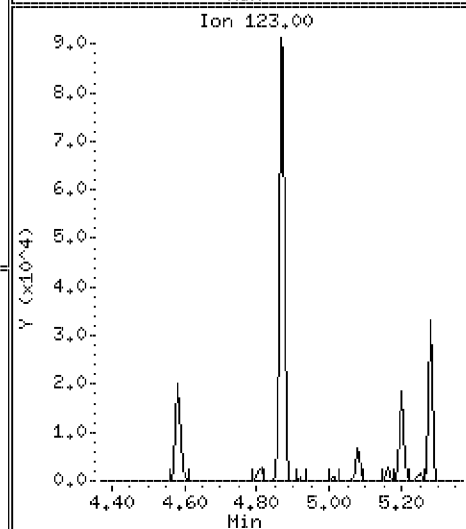
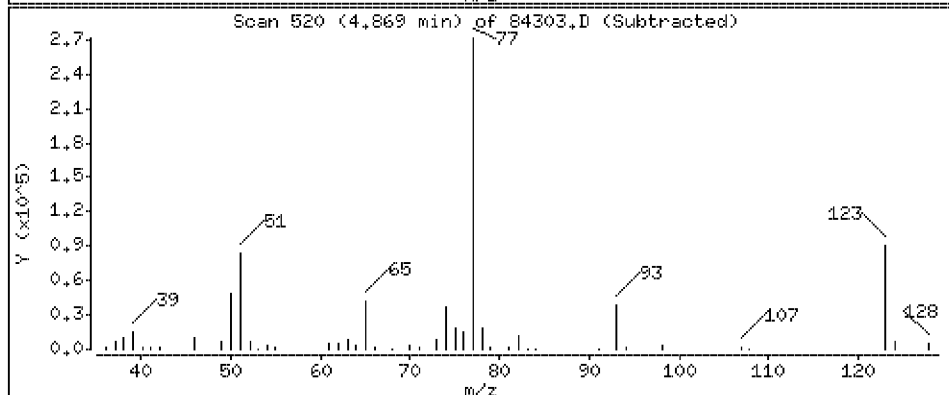
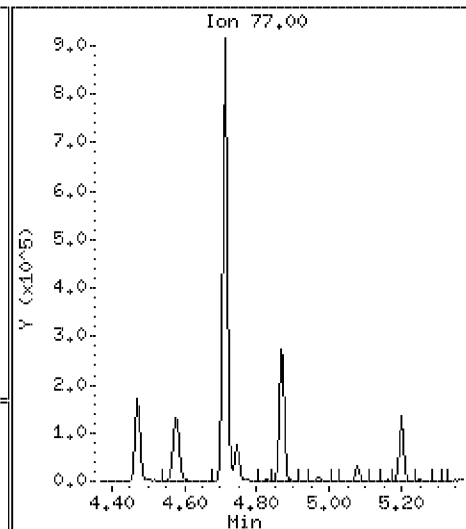
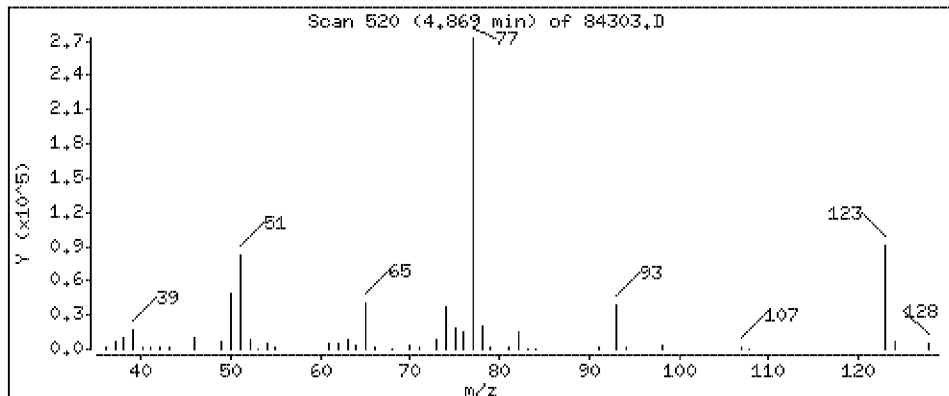
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

32 Nitrobenzene

Concentration: 1130 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

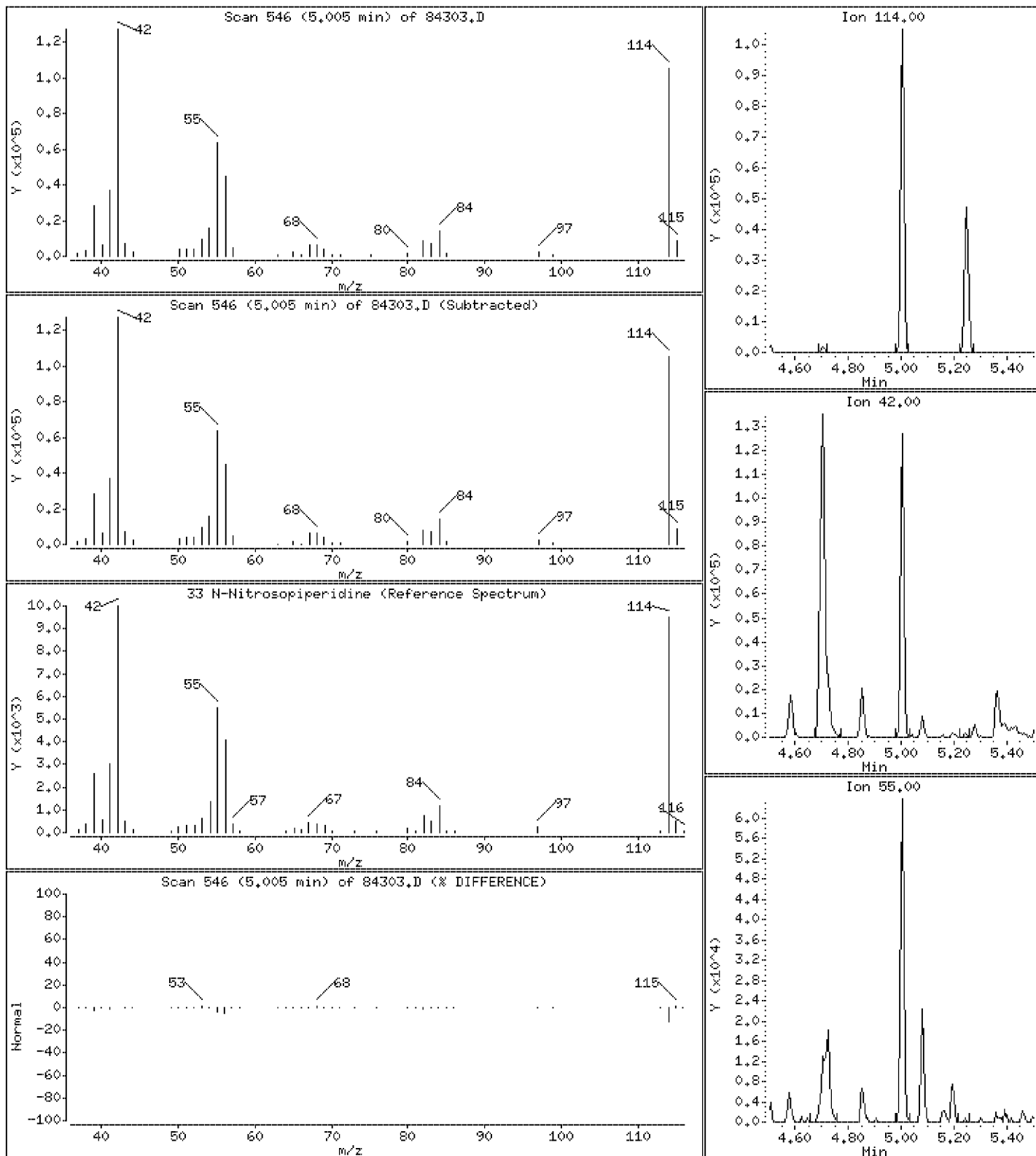
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

33 N-Nitrosopiperidine

Concentration: 1250 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

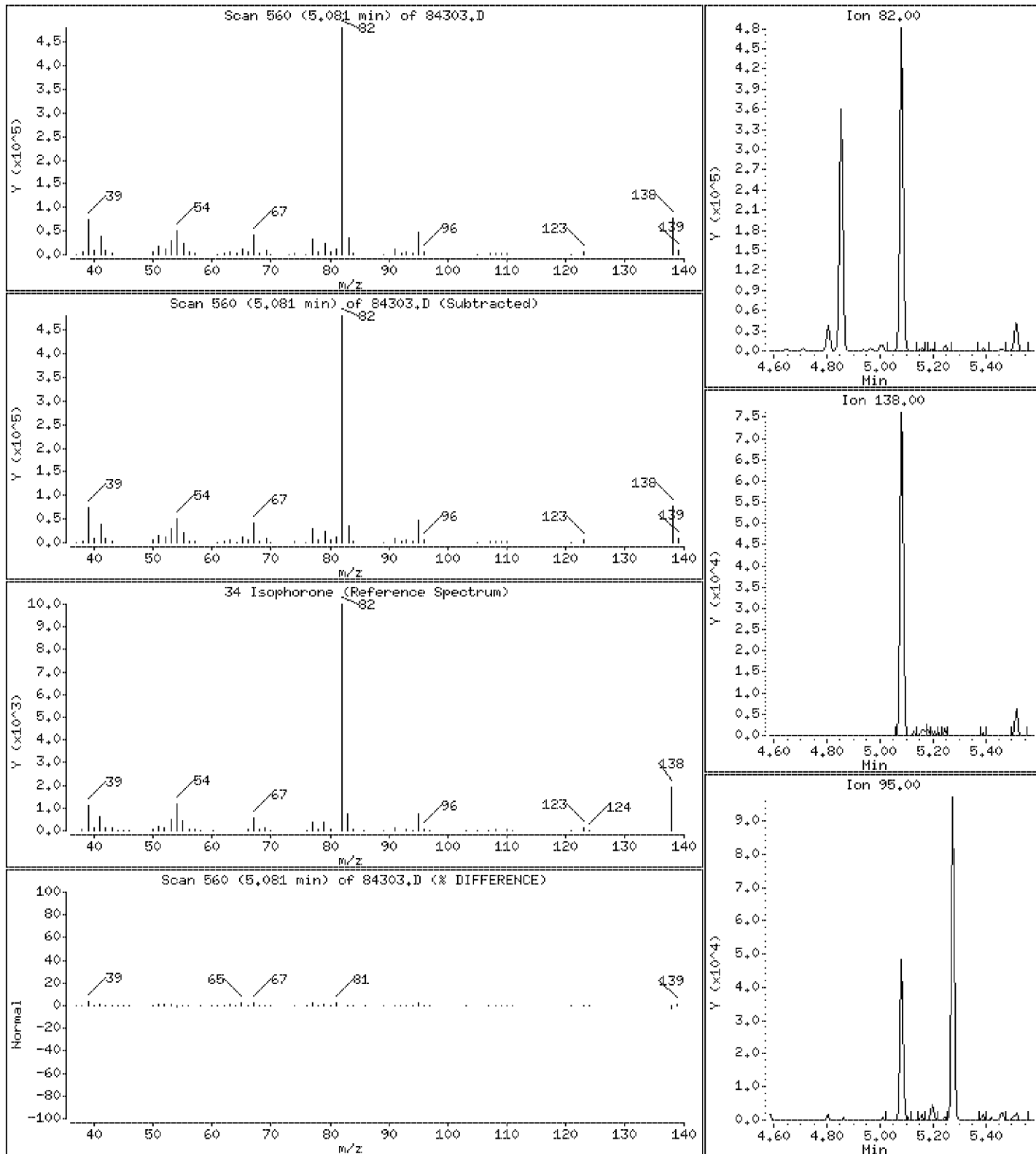
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

34 Isophorone

Concentration: 1460 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

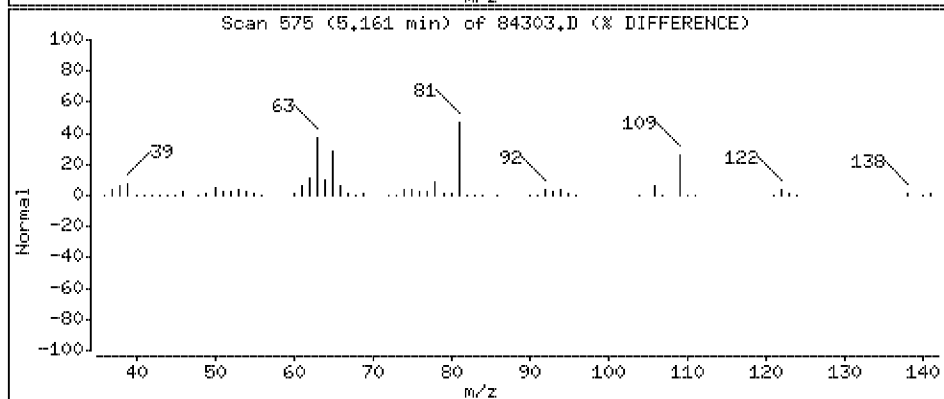
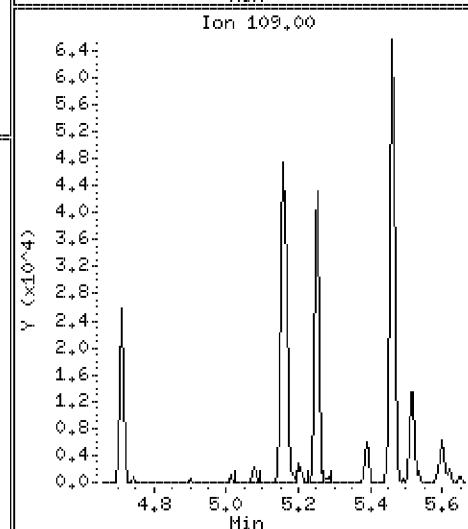
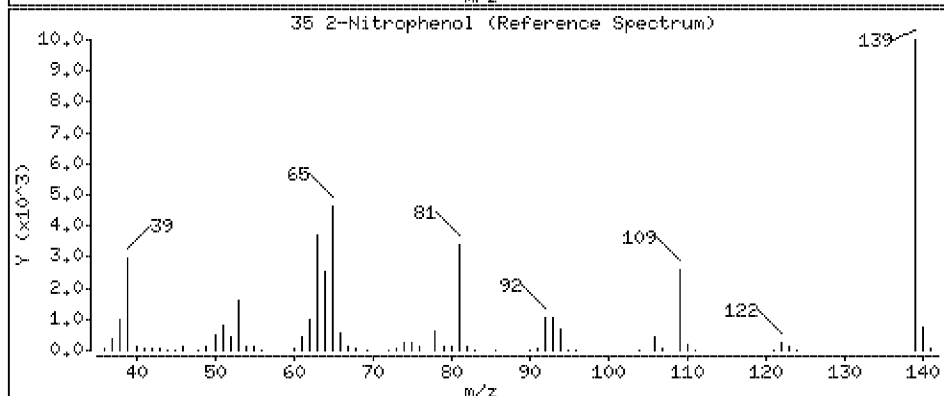
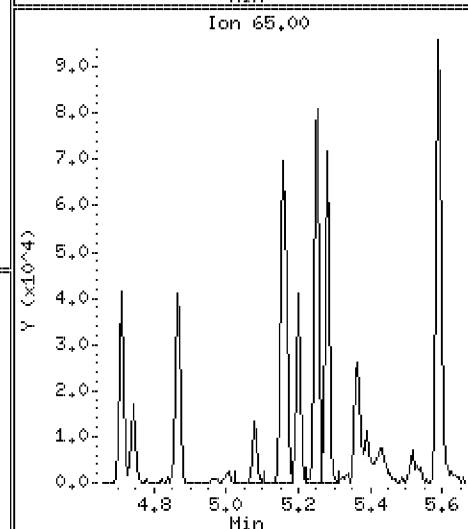
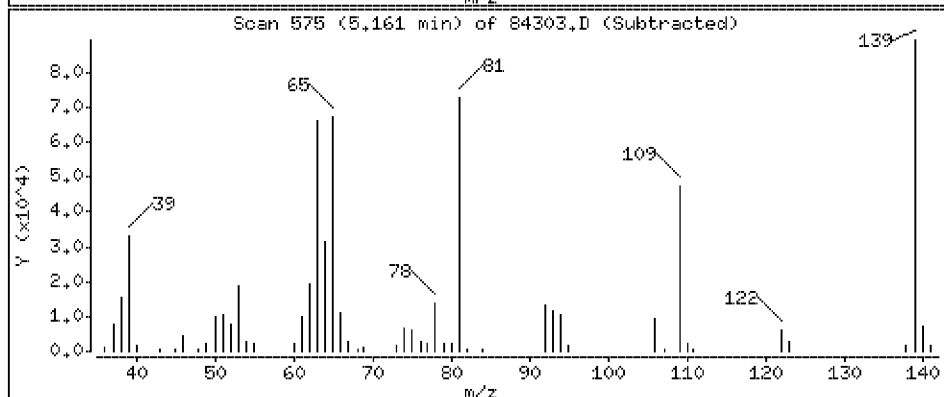
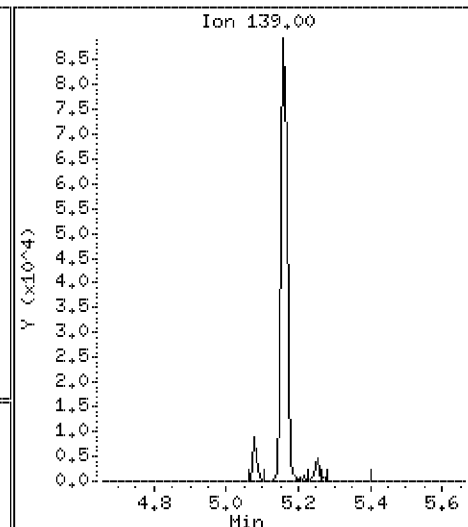
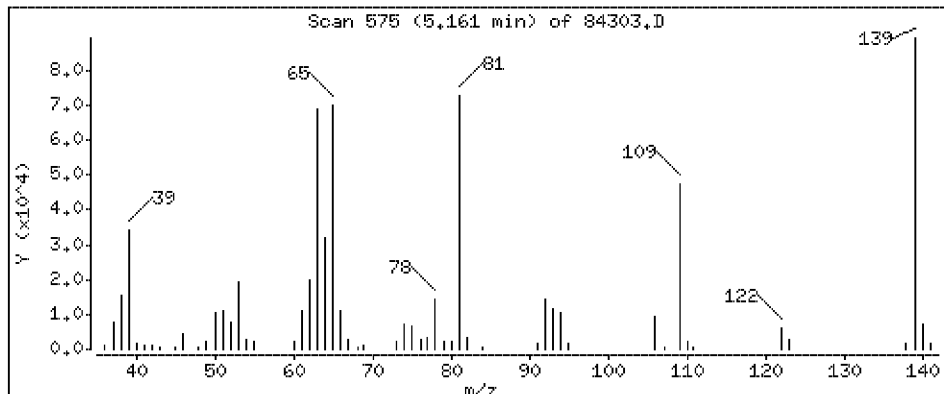
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

35 2-Nitrophenol

Concentration: 980 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

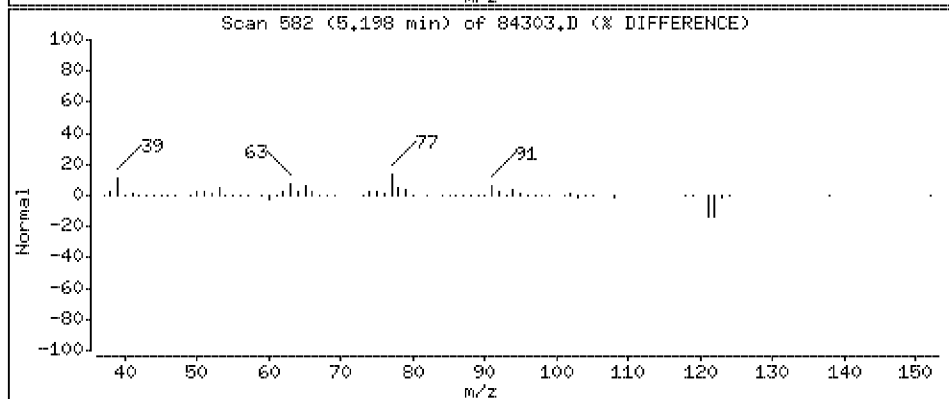
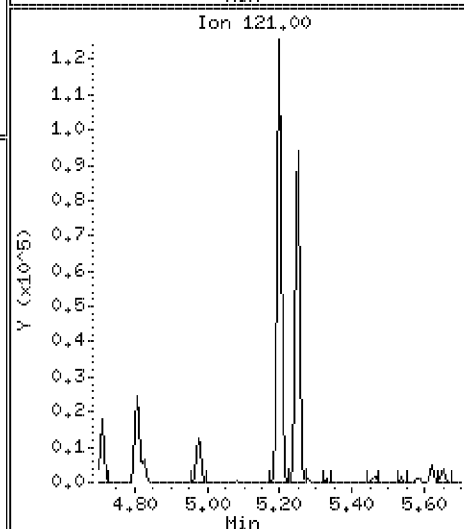
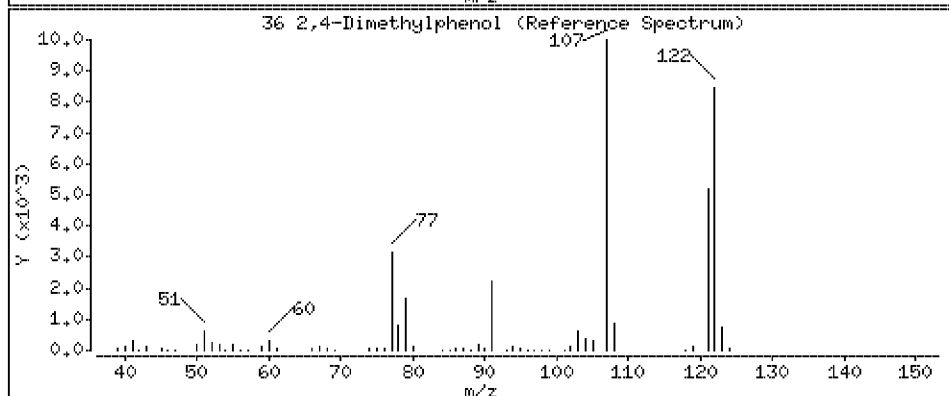
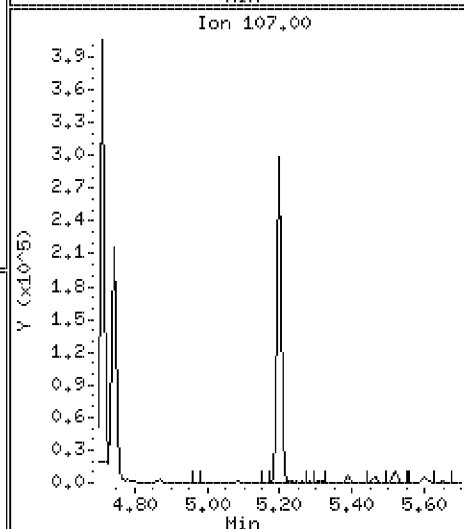
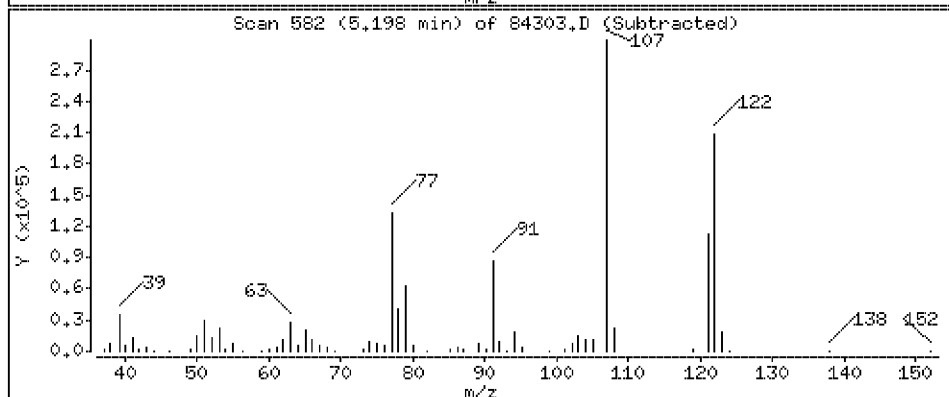
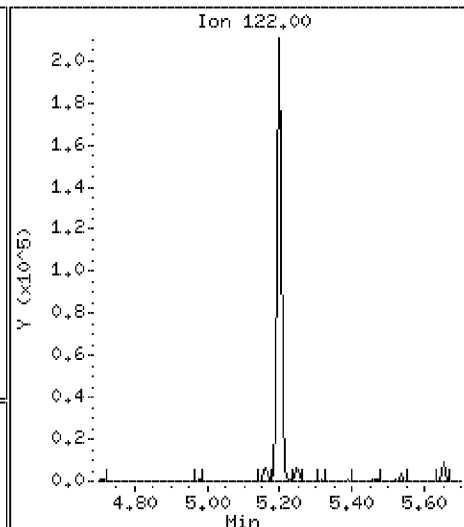
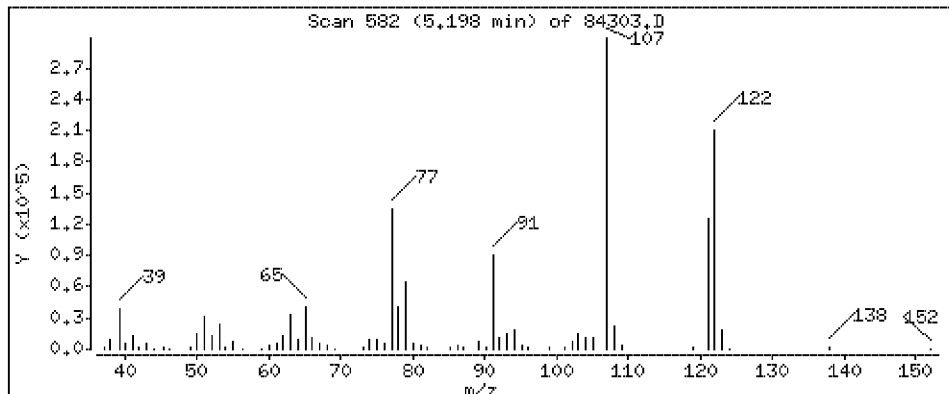
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

36 2,4-Dimethylphenol

Concentration: 1330 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

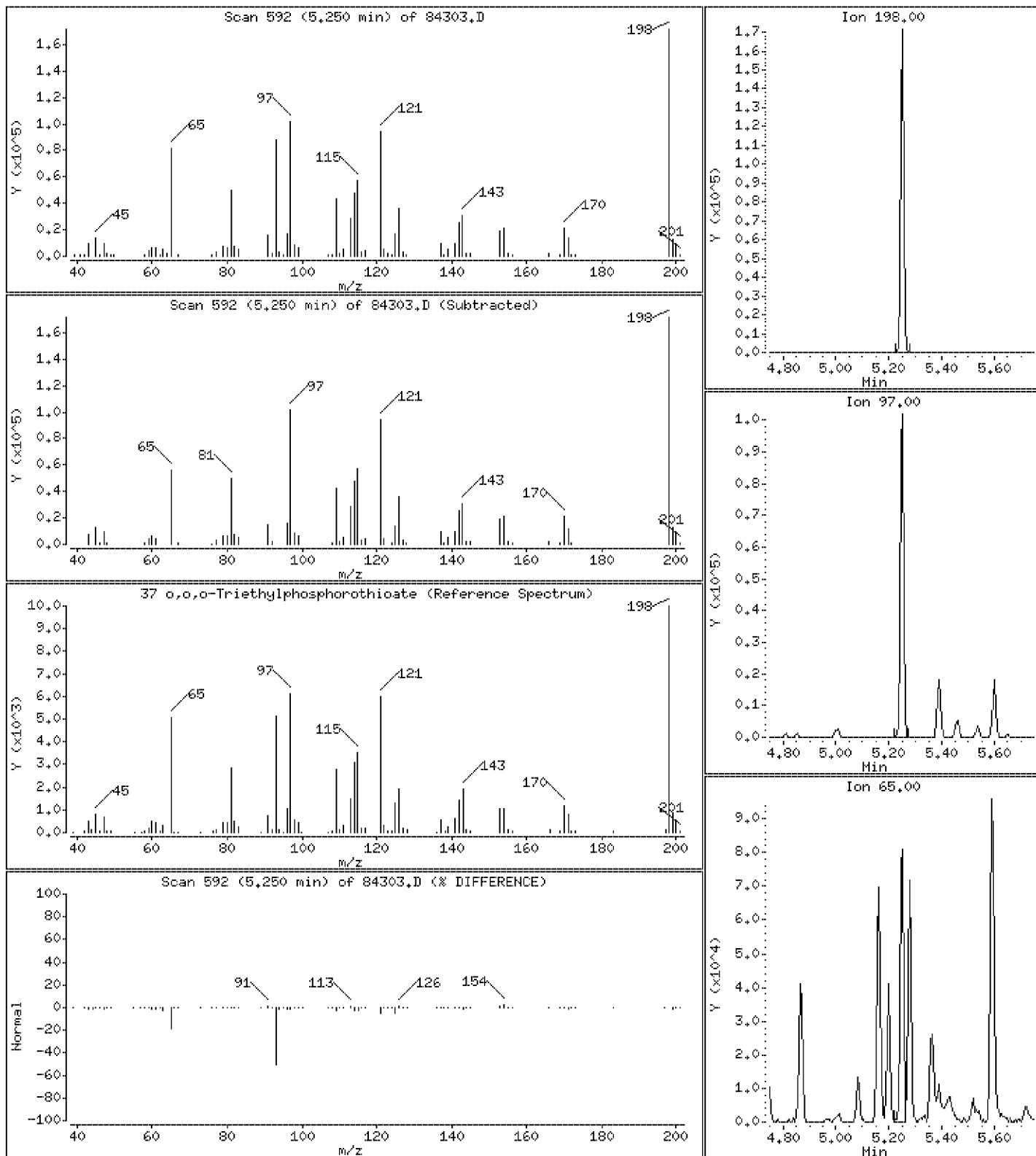
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

37 o,o,o-Triethylphosphorothioate

Concentration: 1070 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

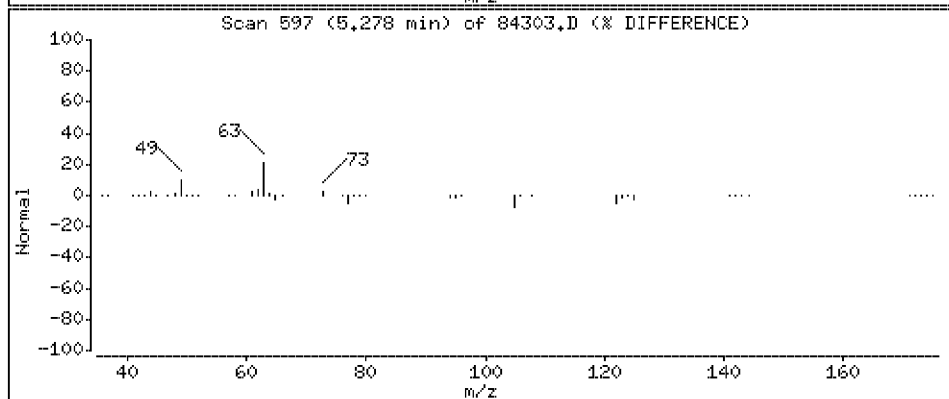
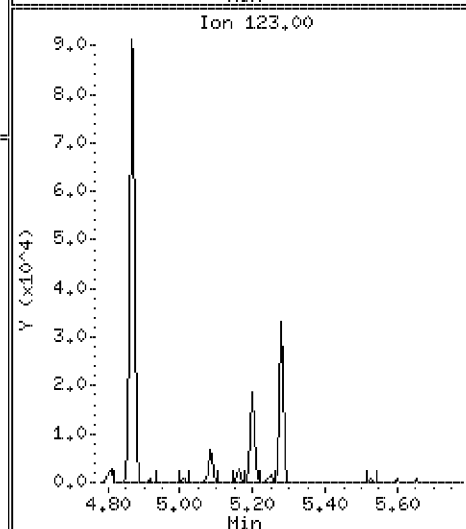
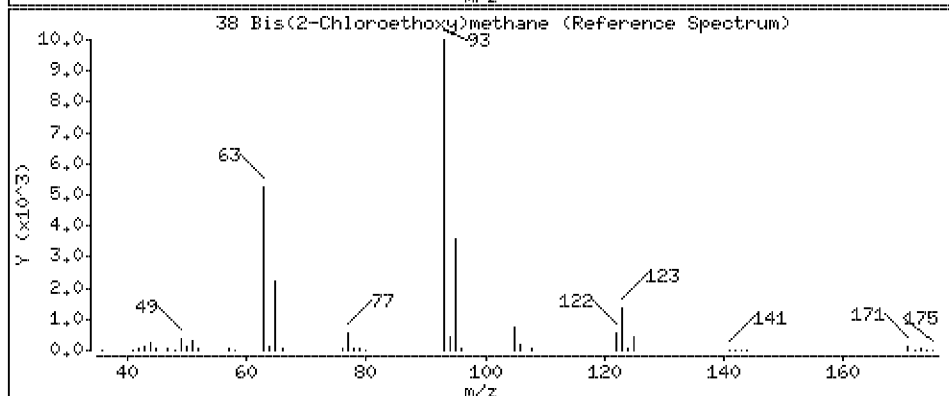
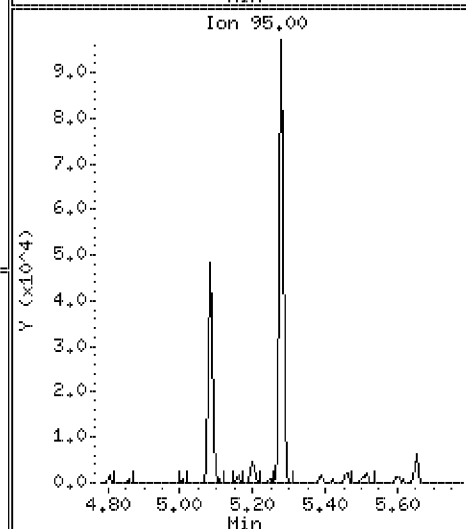
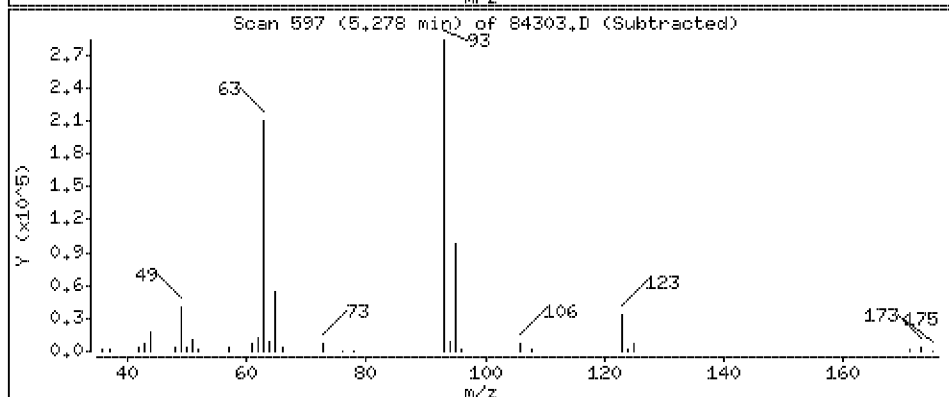
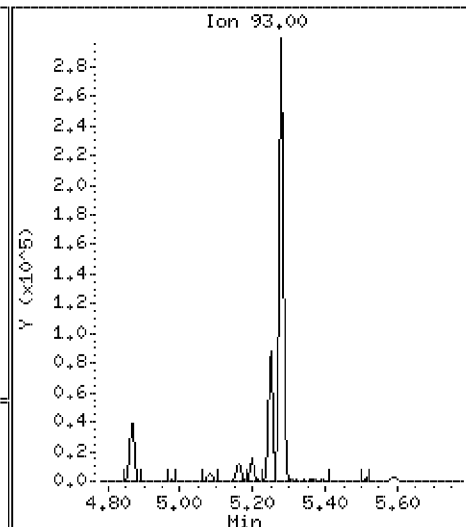
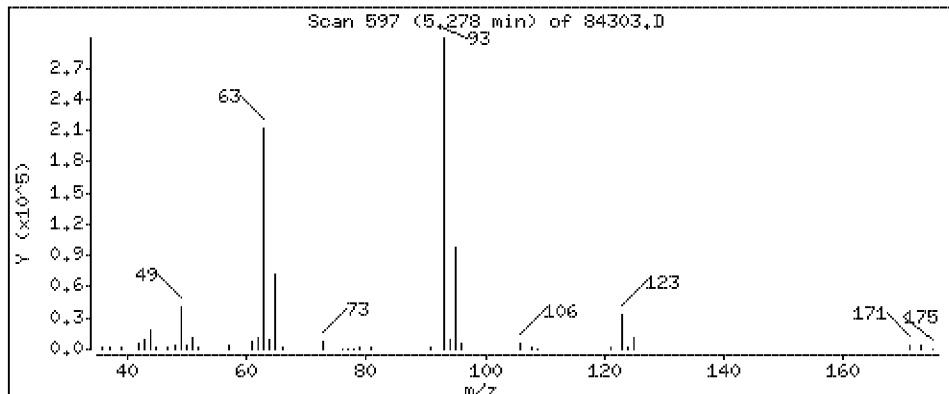
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

38 Bis(2-Chloroethoxy)methane

Concentration: 1250 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

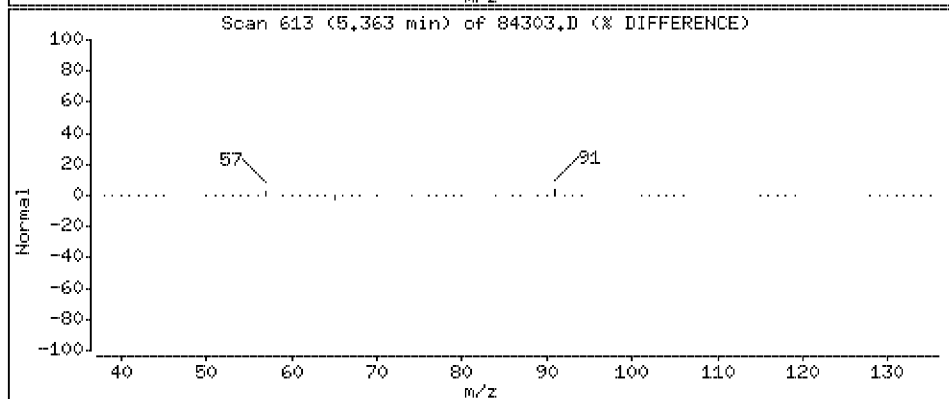
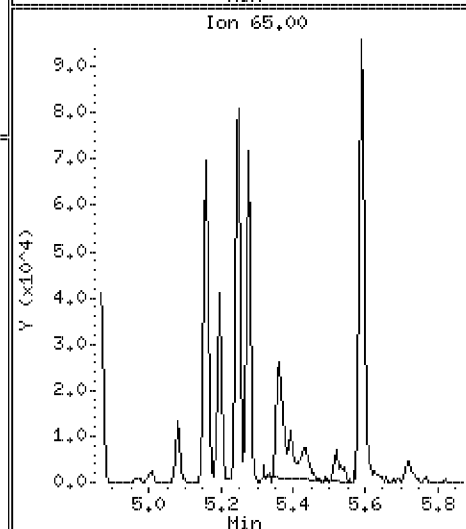
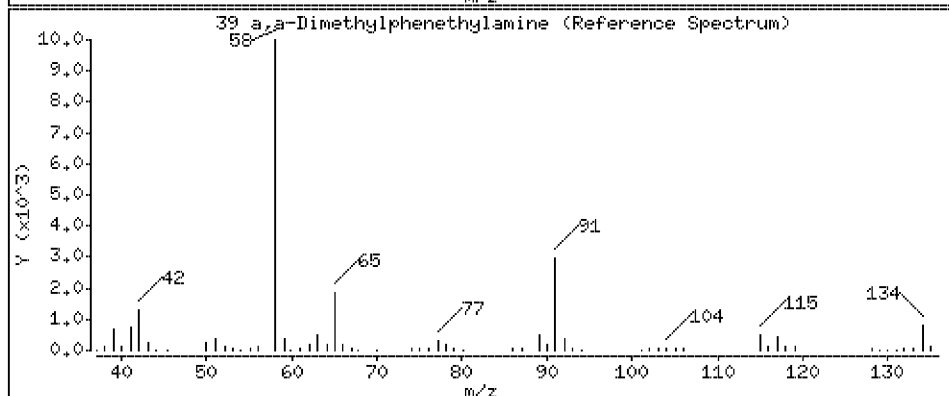
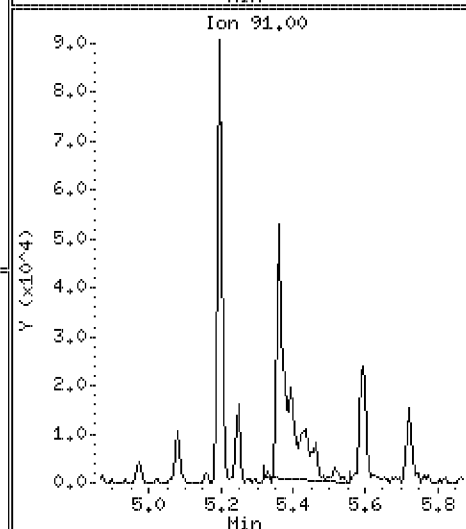
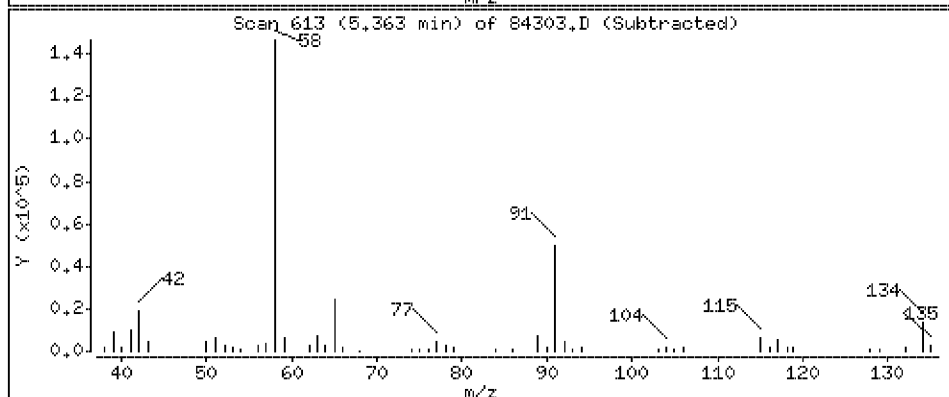
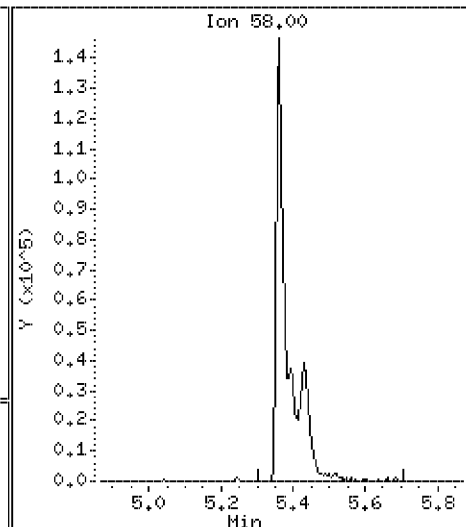
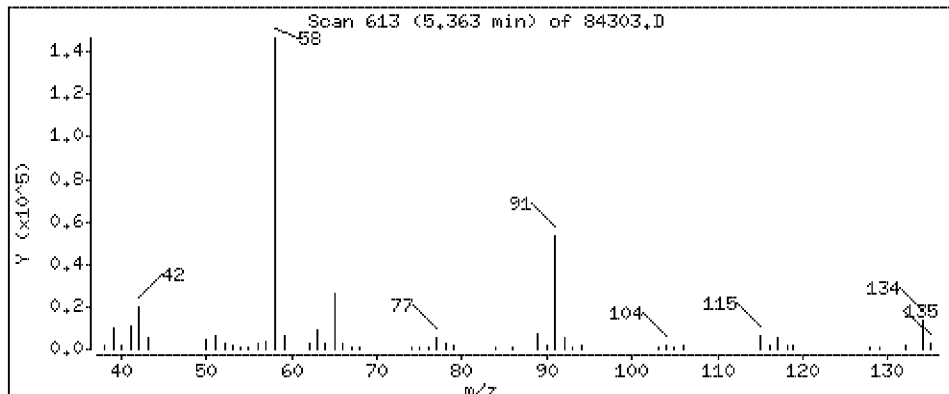
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

39 a,a-Dimethylphenethylamine

Concentration: 1100 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

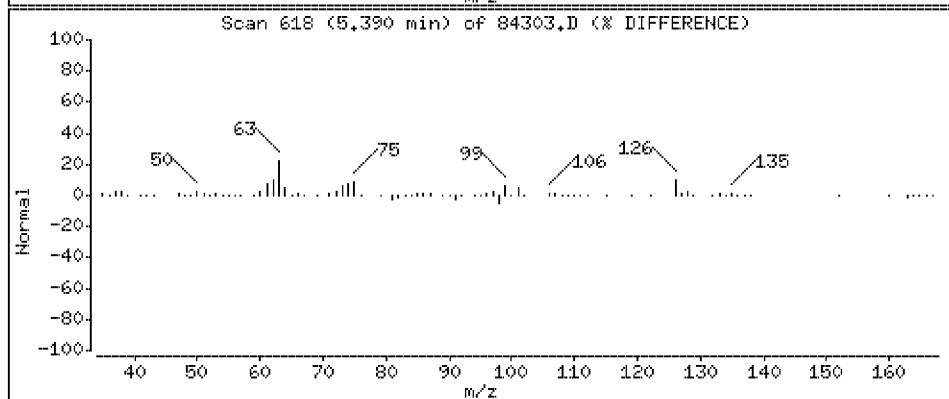
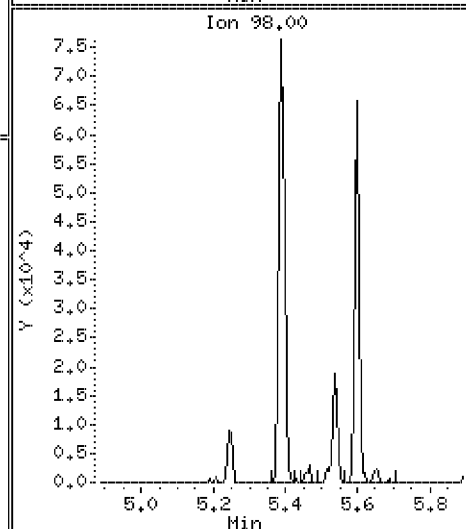
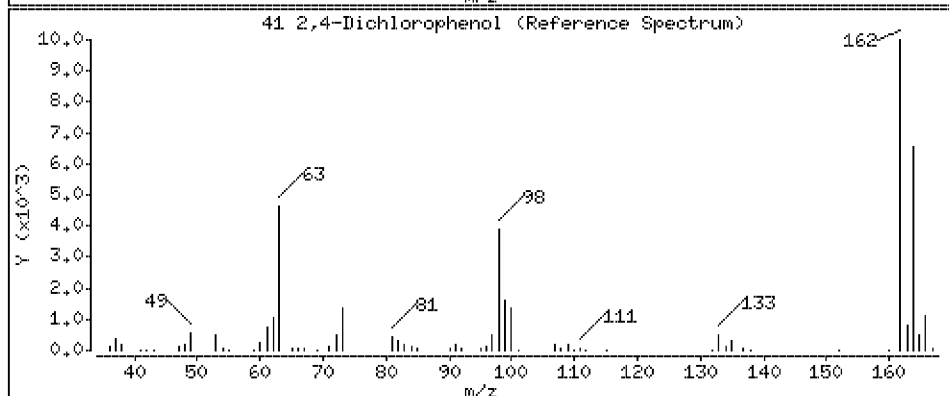
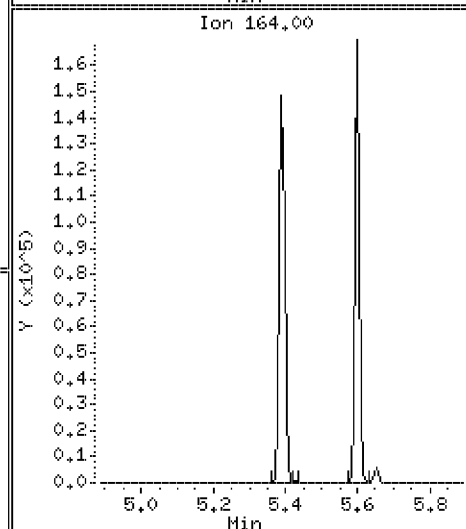
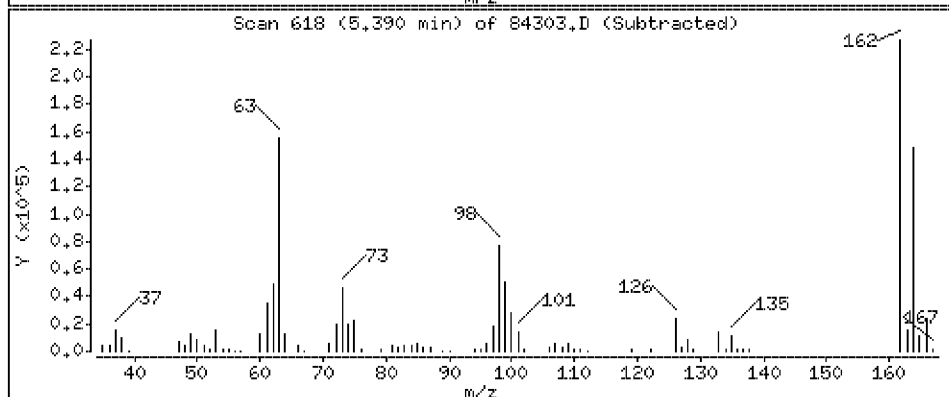
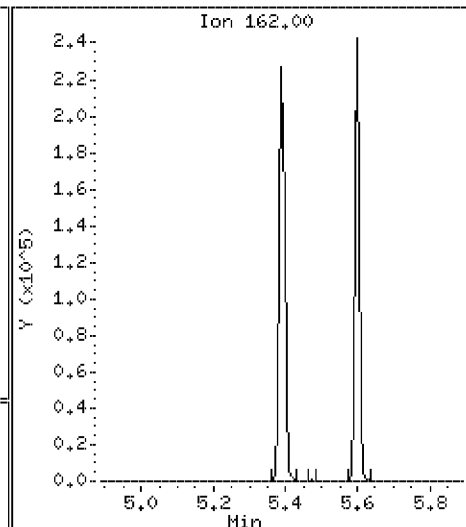
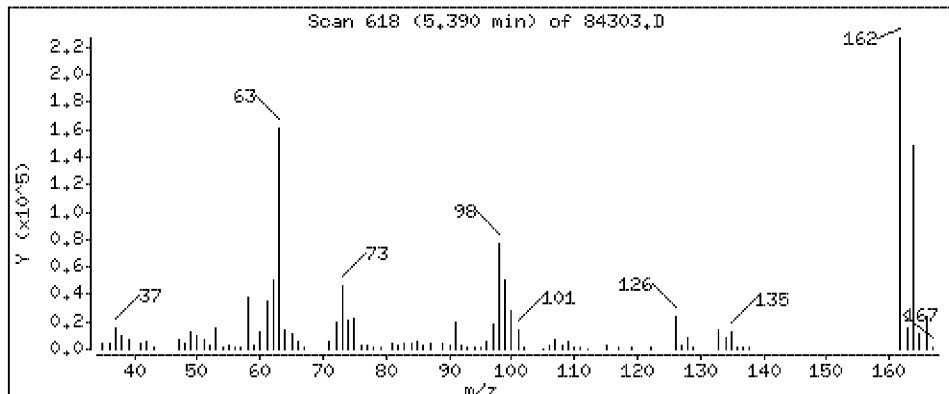
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

41 2,4-Dichlorophenol

Concentration: 1240 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

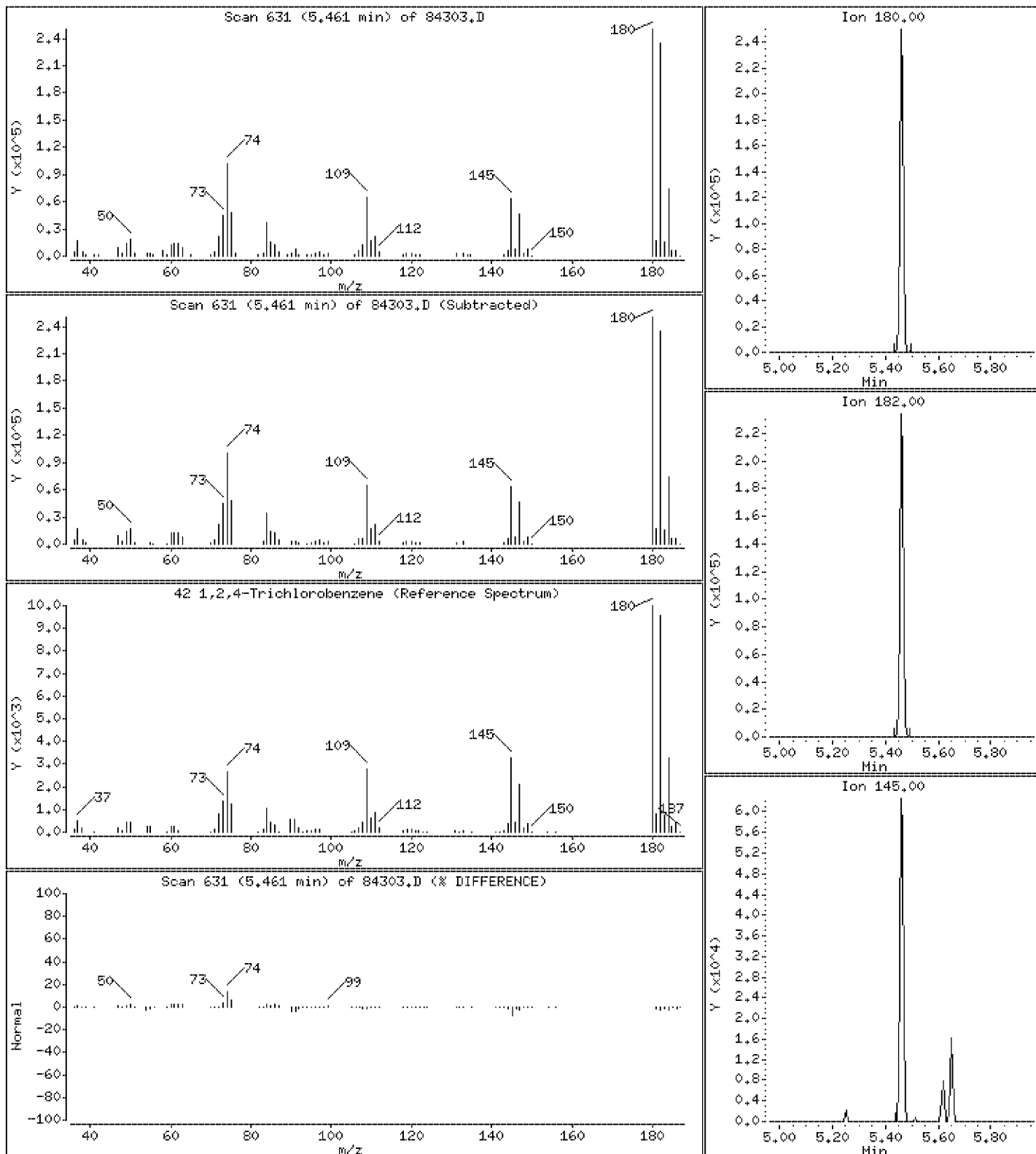
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

42 1,2,4-Trichlorobenzene

Concentration: 1110 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

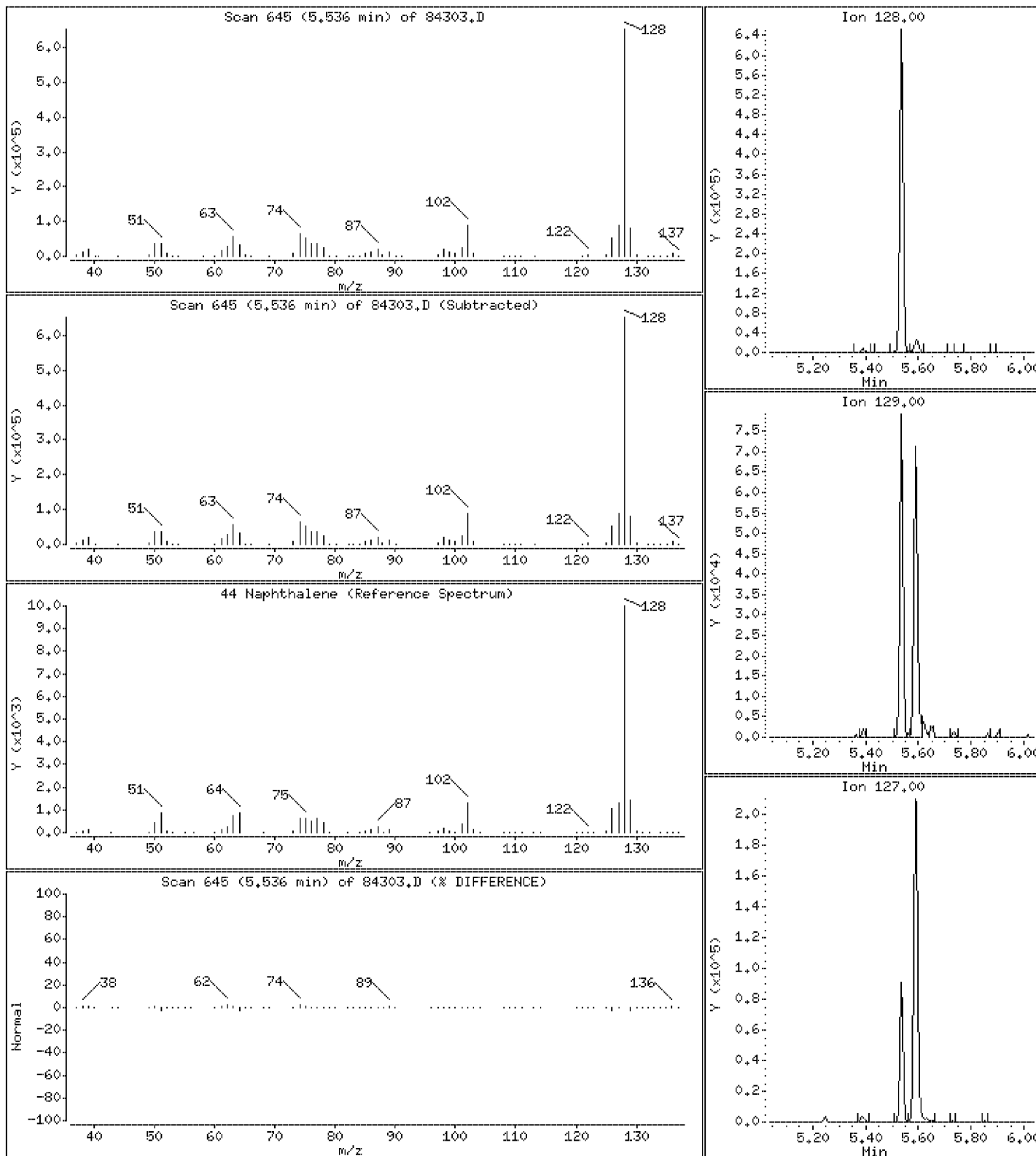
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

44 Naphthalene

Concentration: 1250 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

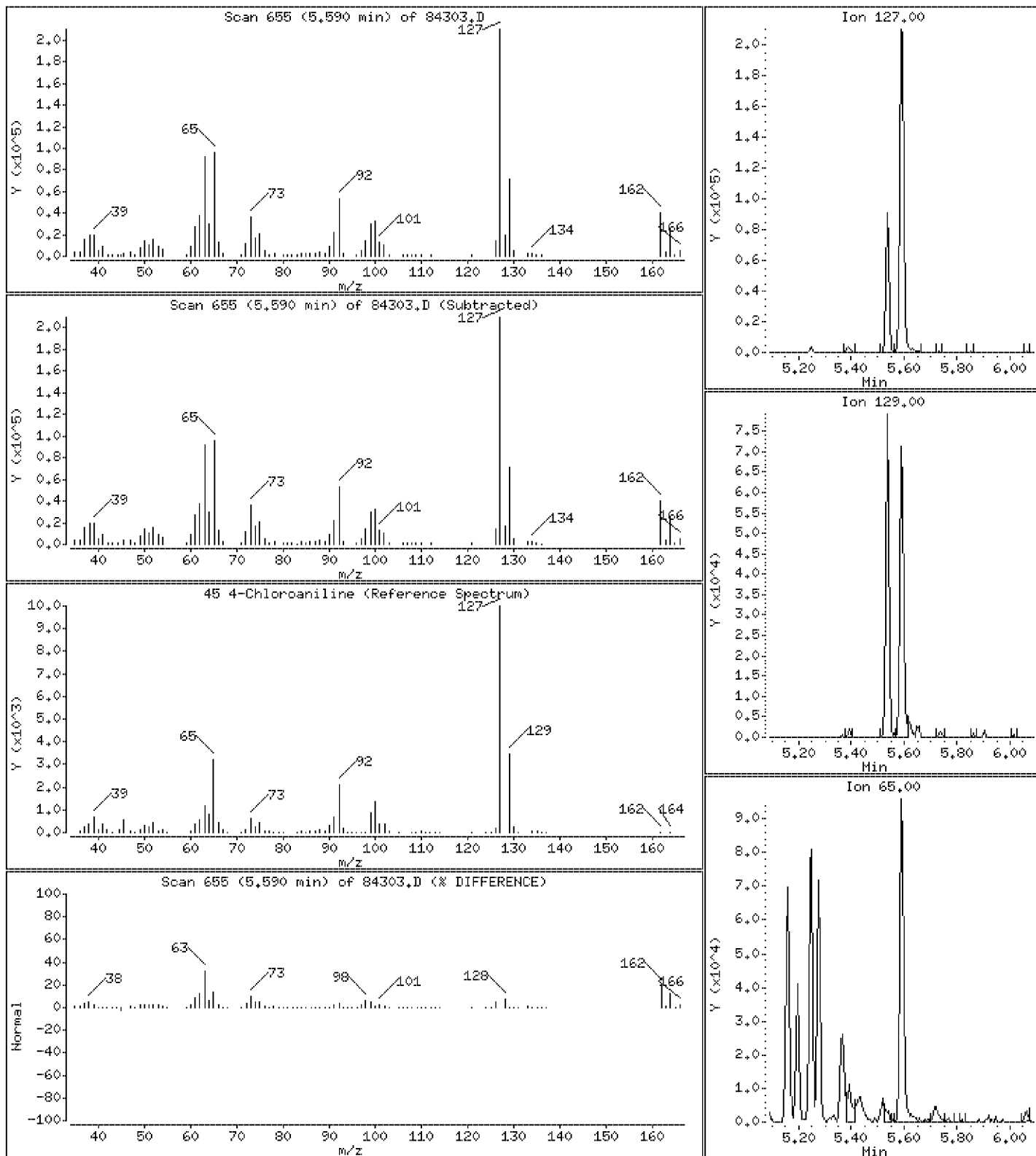
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

45 4-Chloroaniline

Concentration: 1180 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

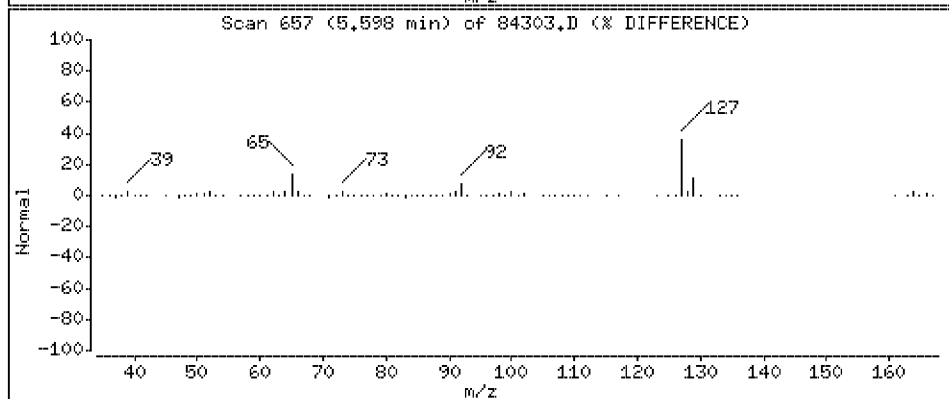
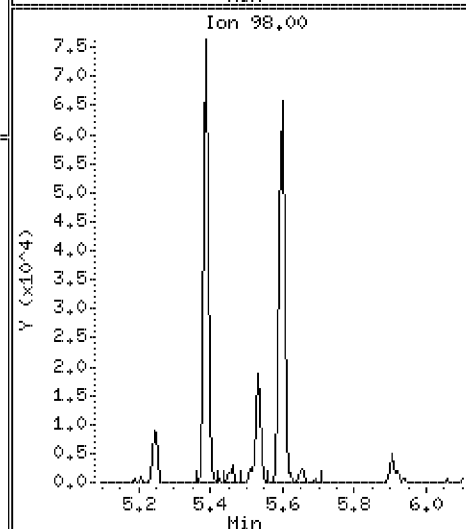
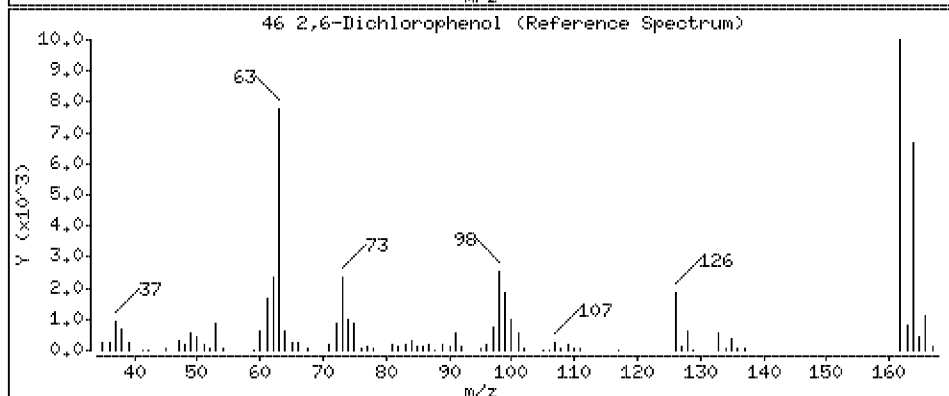
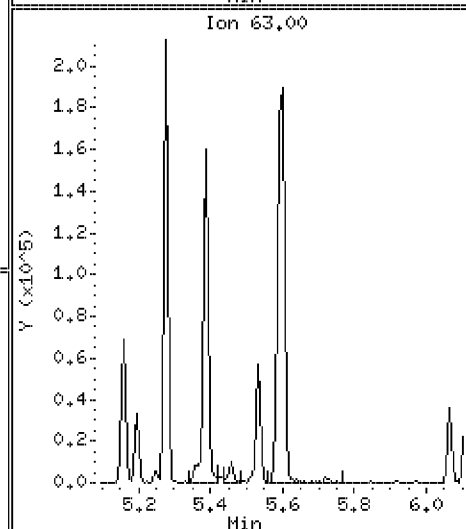
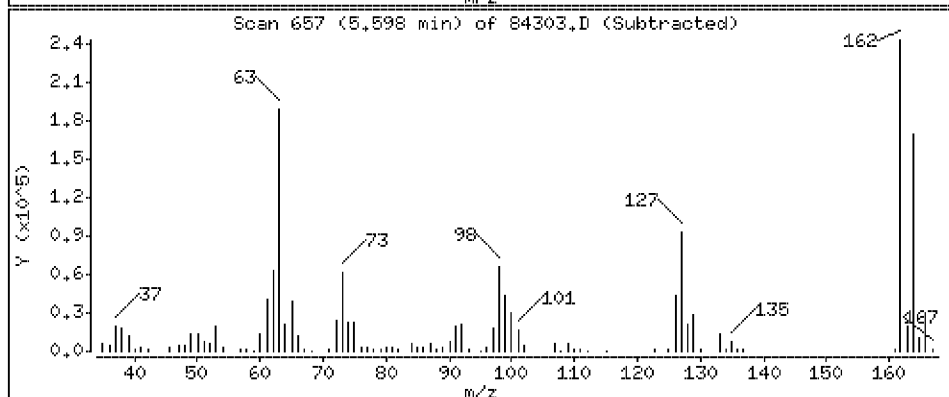
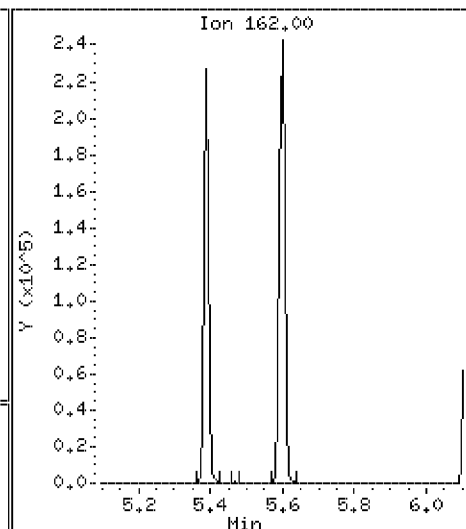
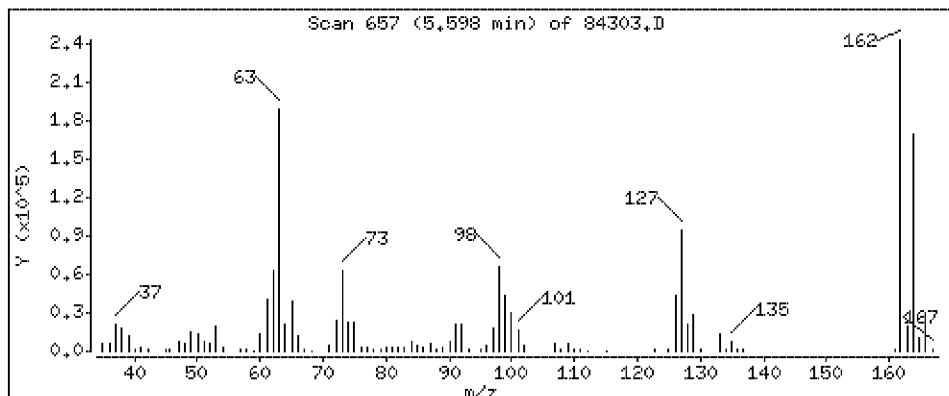
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

46 2,6-Dichlorophenol

Concentration: 1400 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

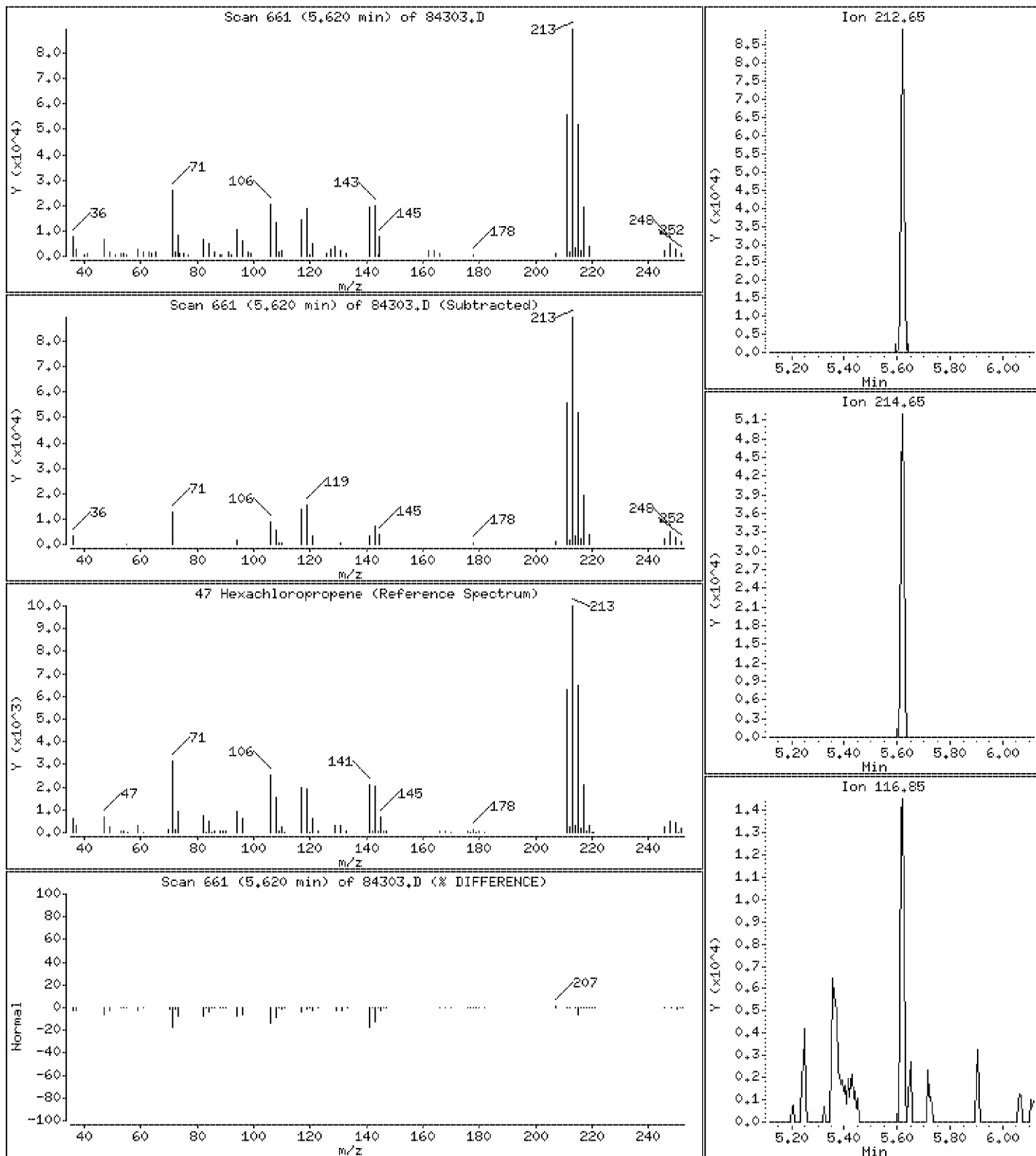
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

47 Hexachloropropene

Concentration: 375 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

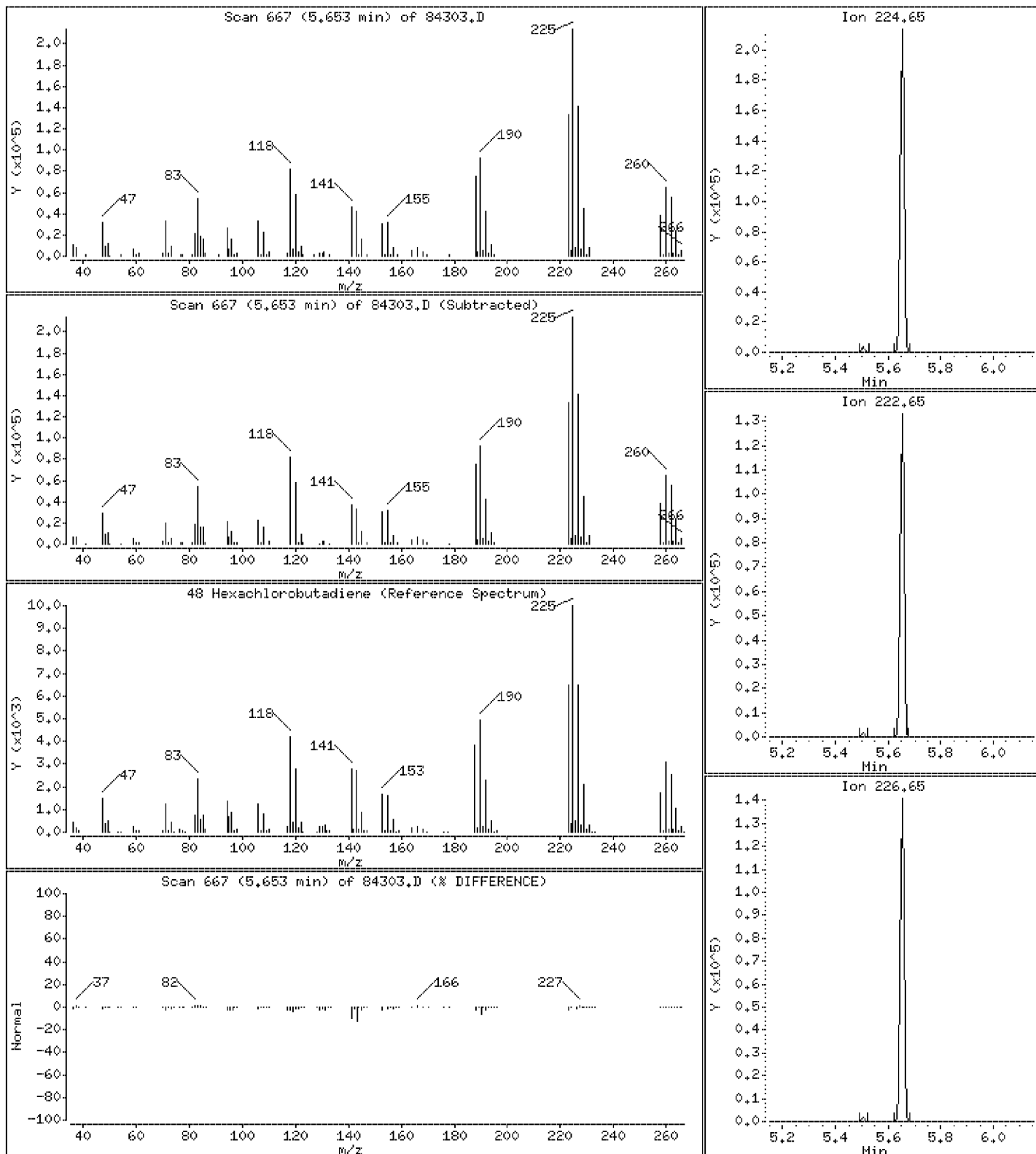
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

48 Hexachlorobutadiene

Concentration: 1130 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

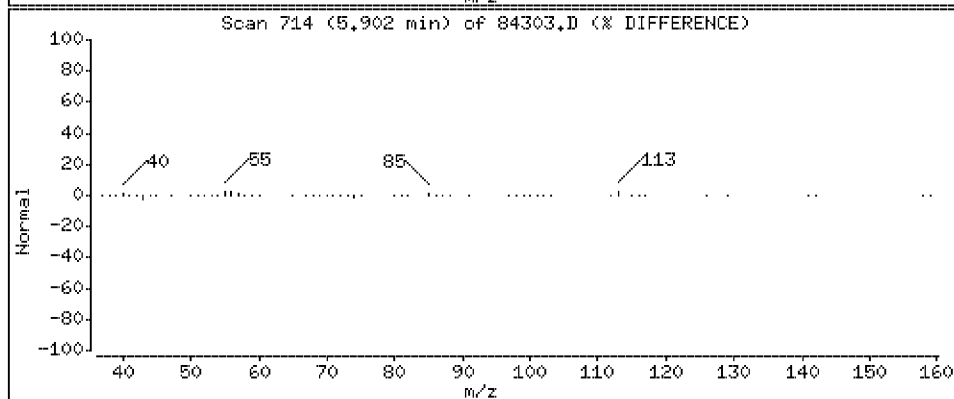
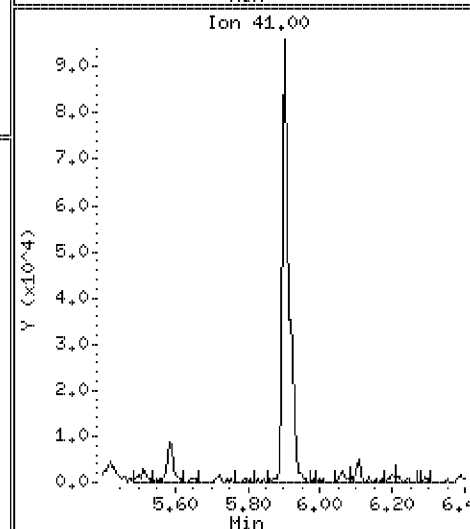
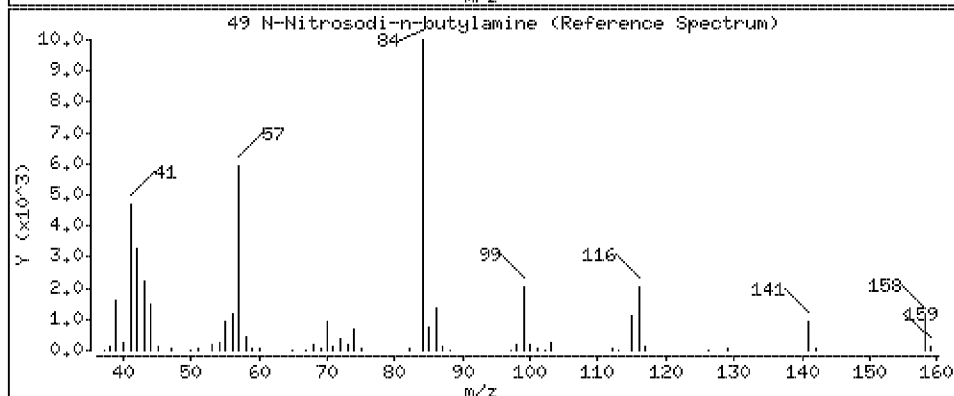
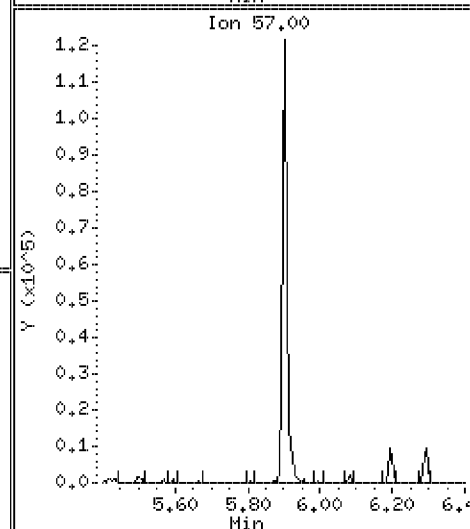
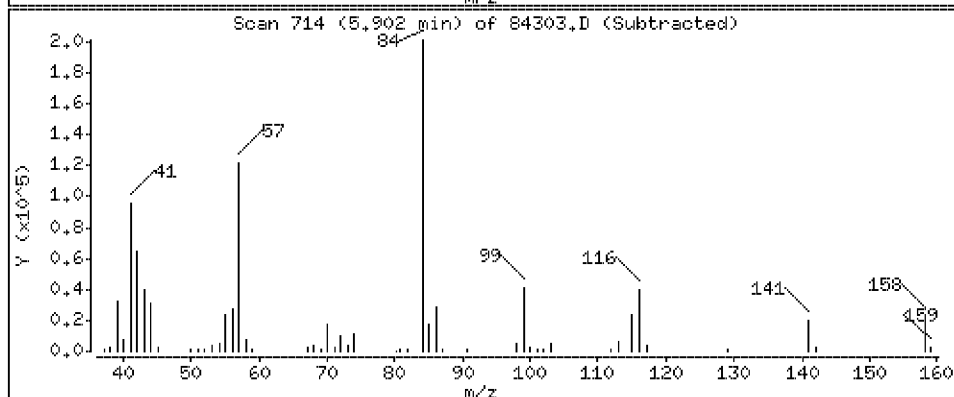
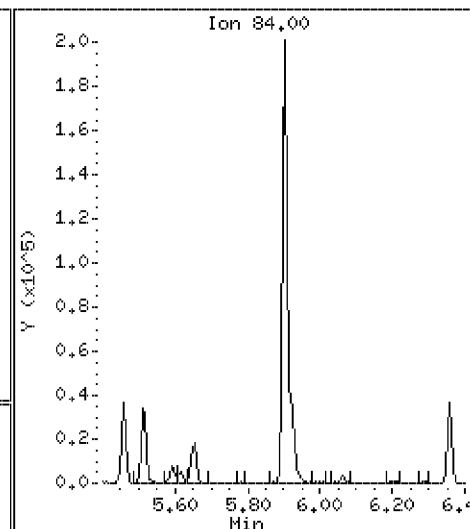
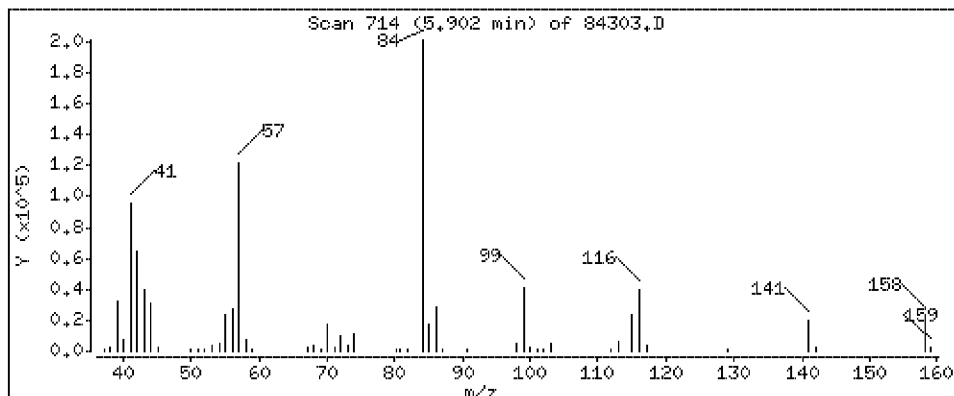
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

49 N-Nitrosodi-n-butylamine

Concentration: 1480 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

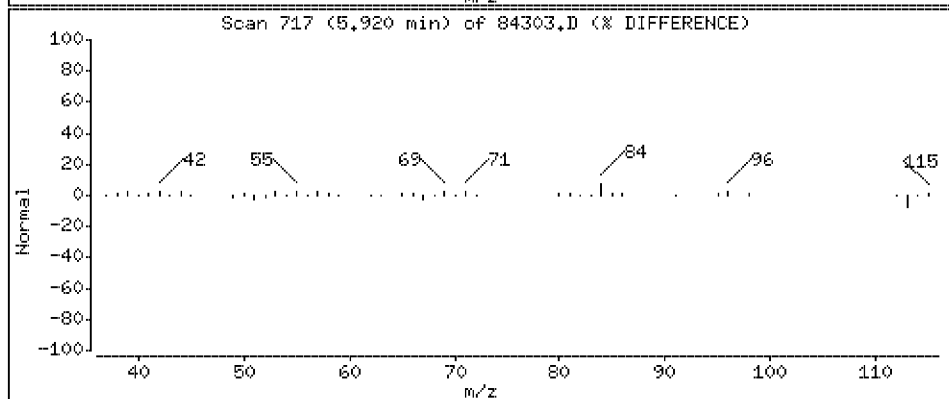
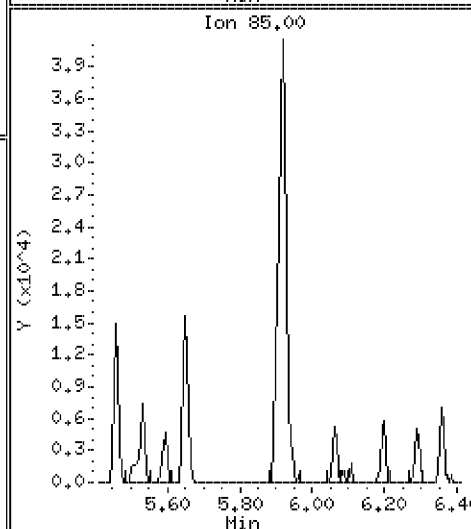
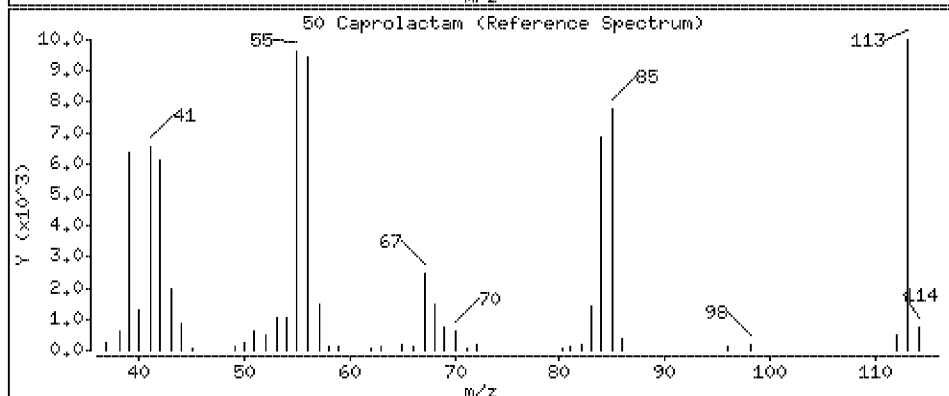
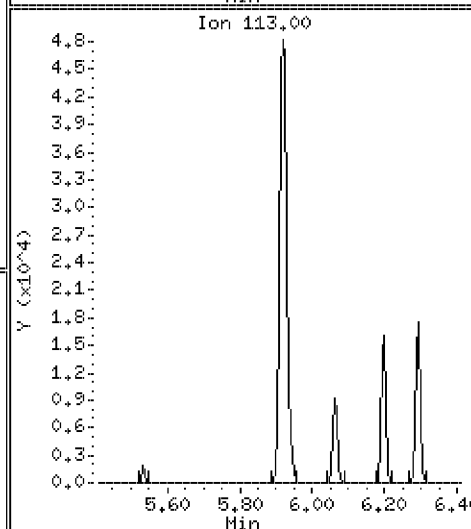
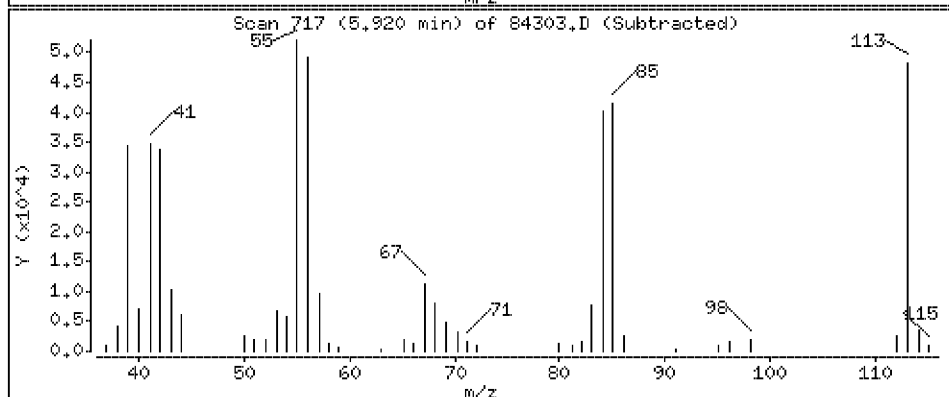
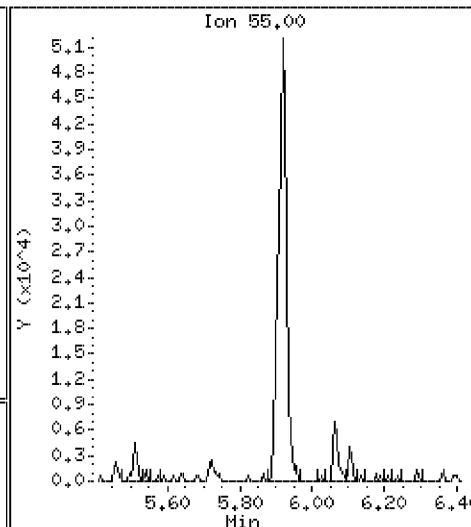
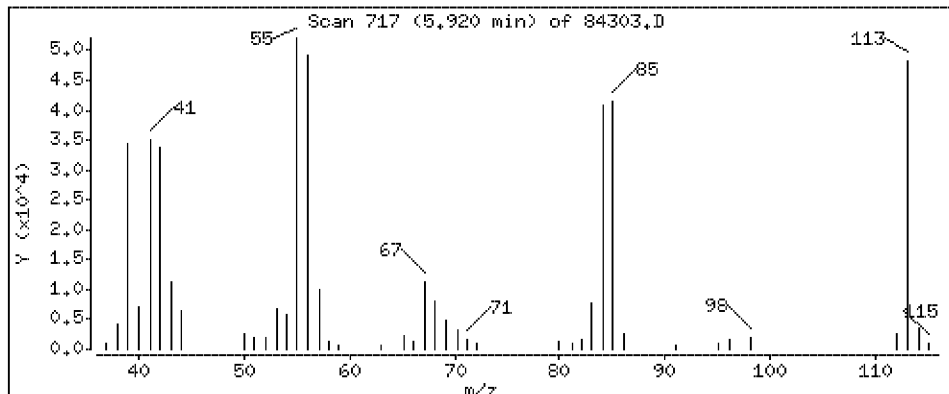
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

50 Caprolactam

Concentration: 1670 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

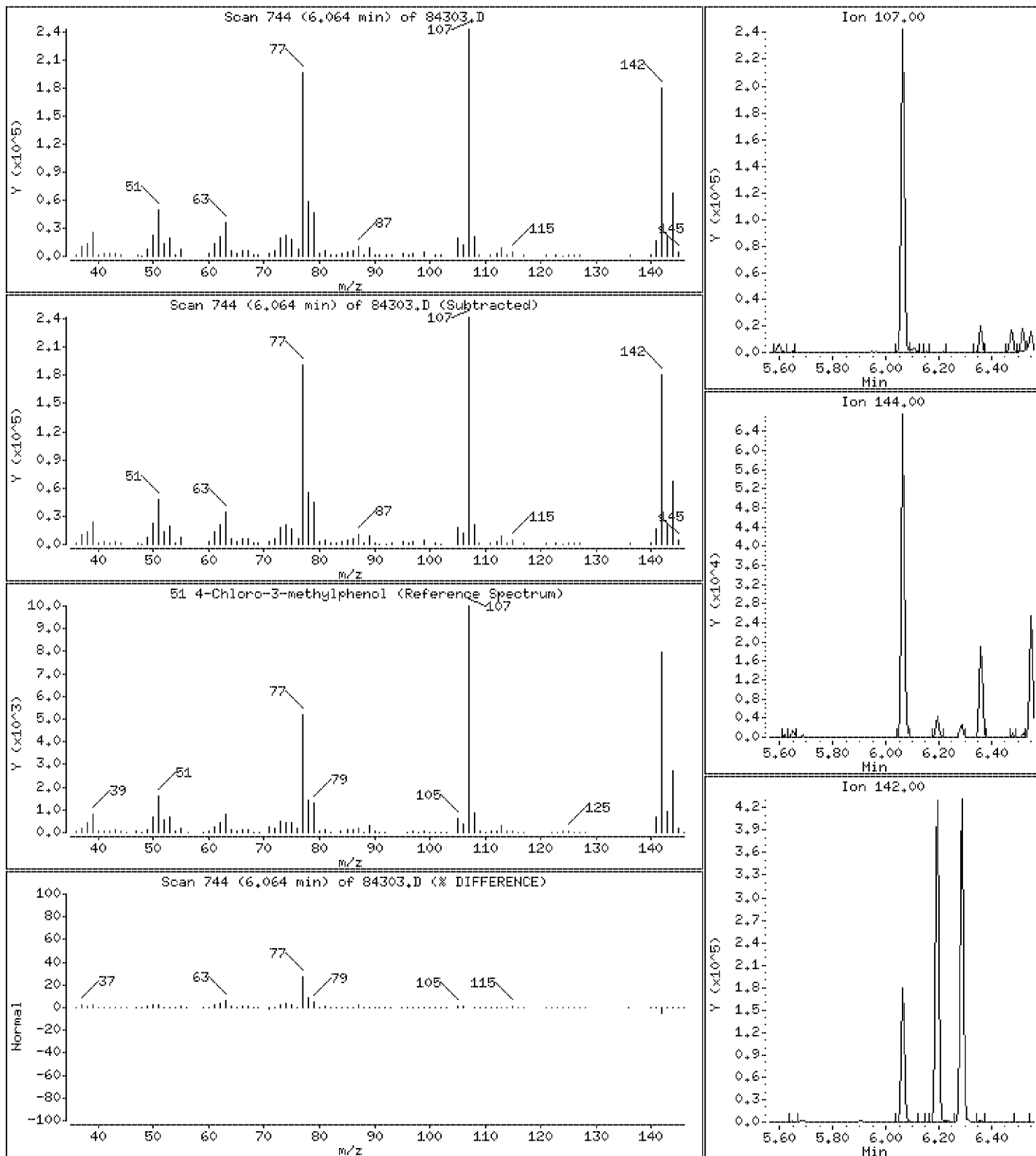
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

51 4-Chloro-3-methylphenol

Concentration: 1360 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

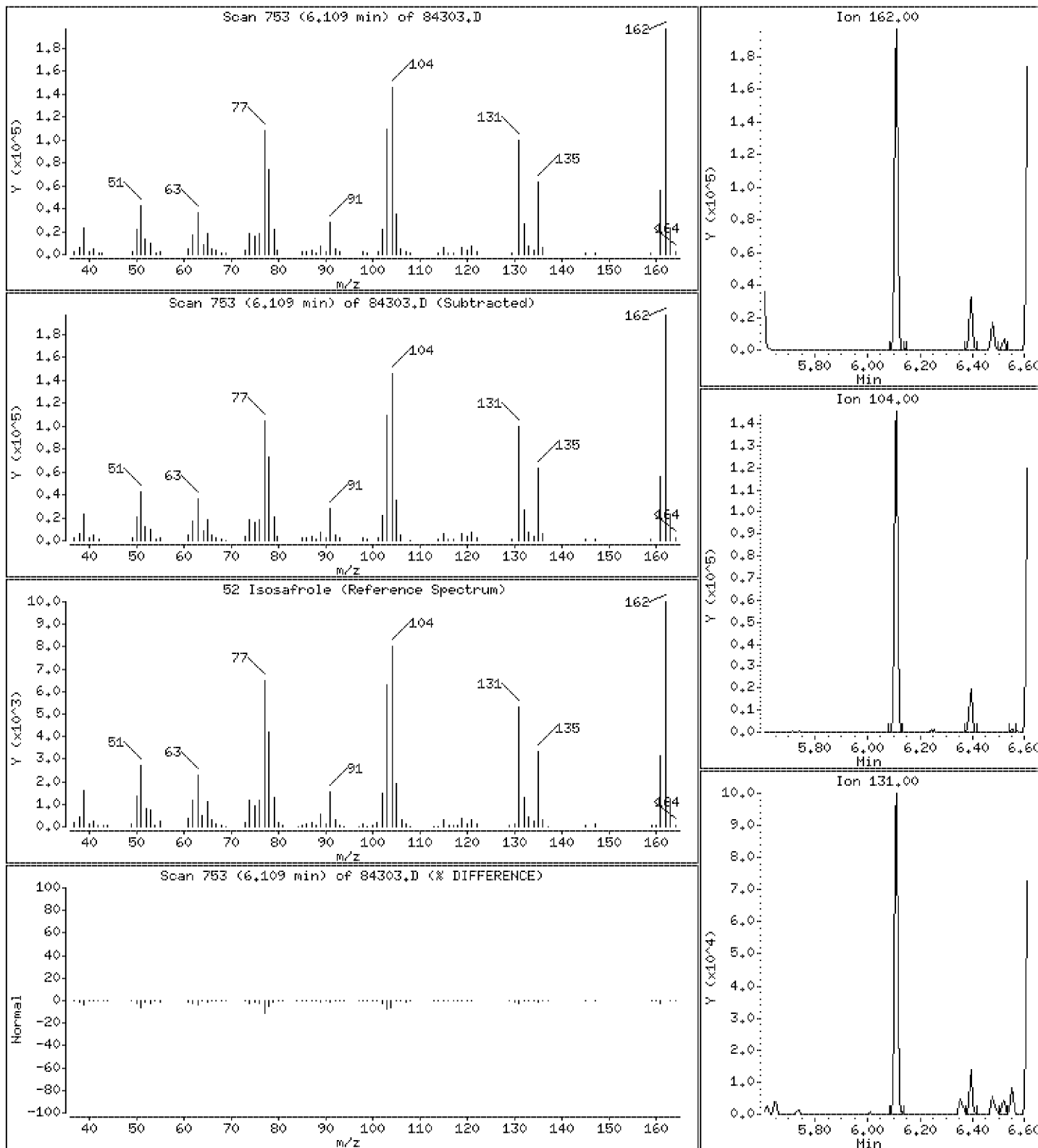
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

52 Isosafrole

Concentration: 1190 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

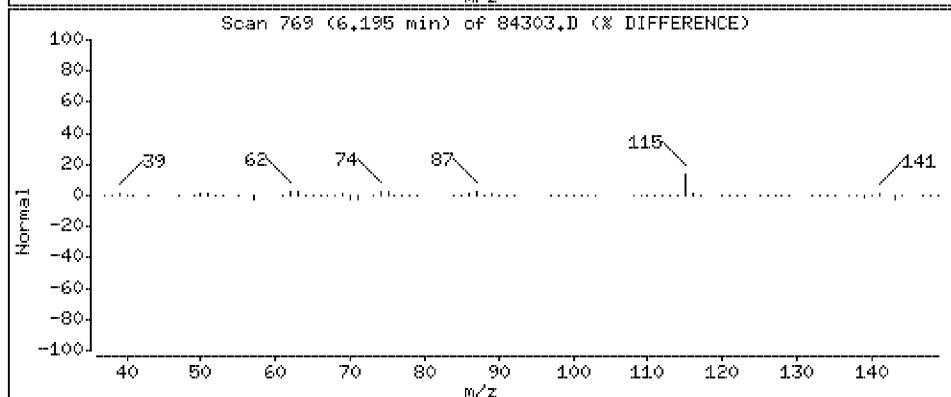
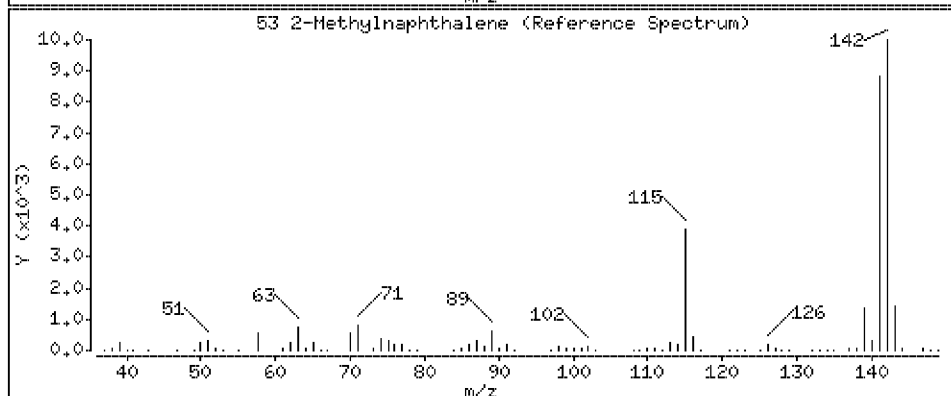
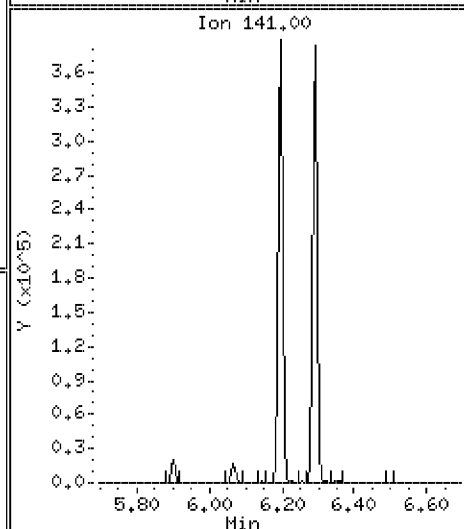
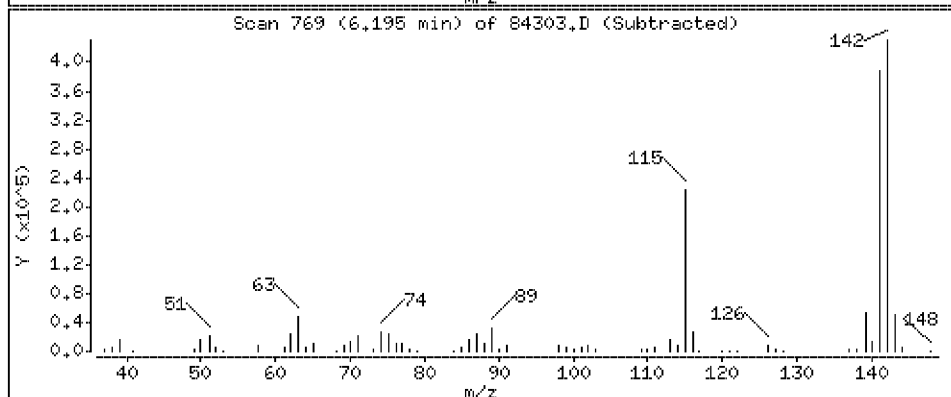
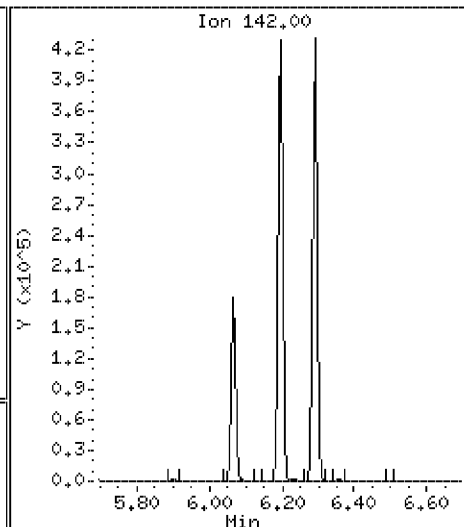
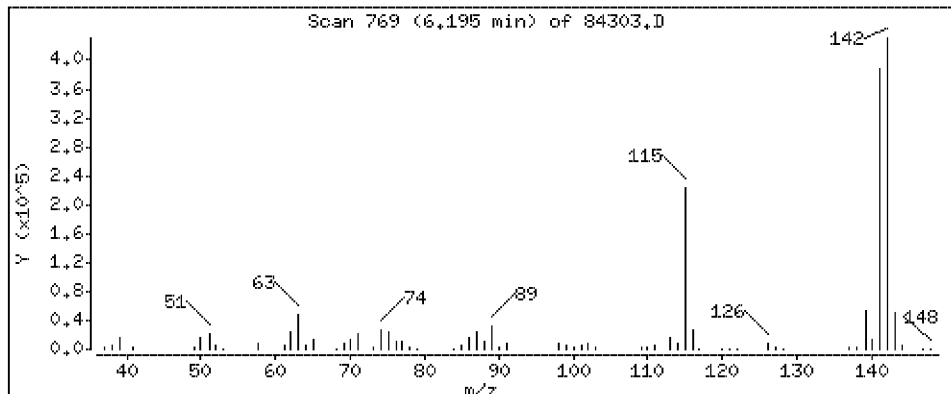
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

53 2-Methylnaphthalene

Concentration: 1180 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

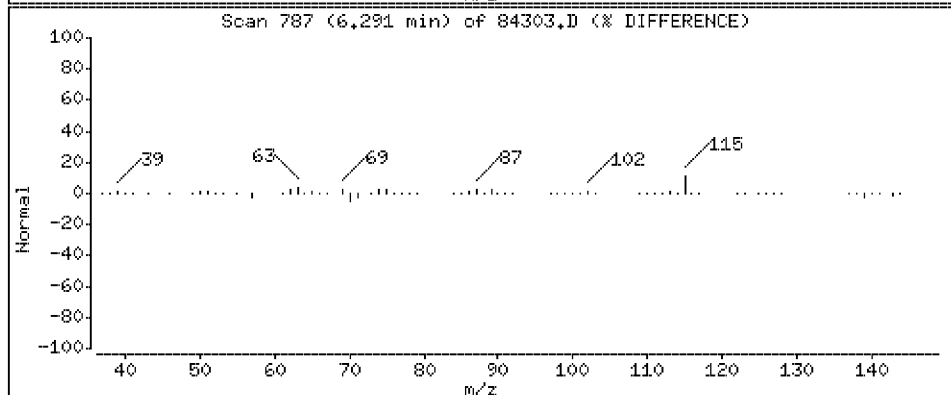
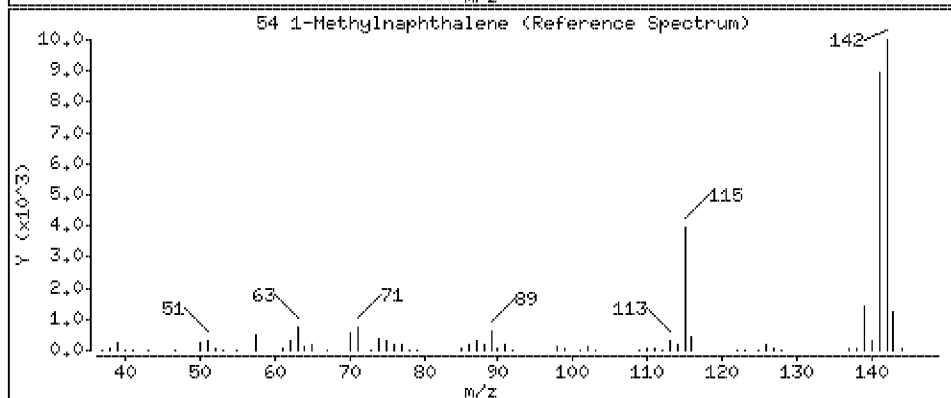
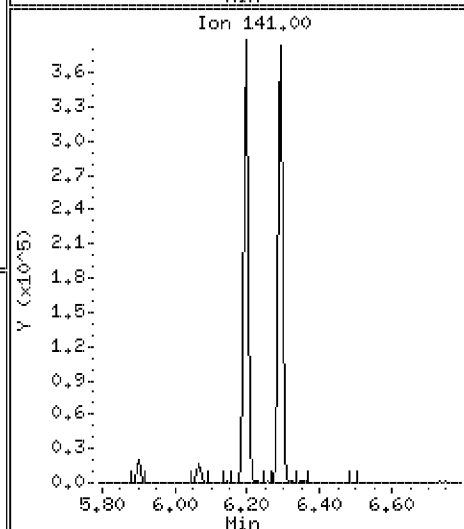
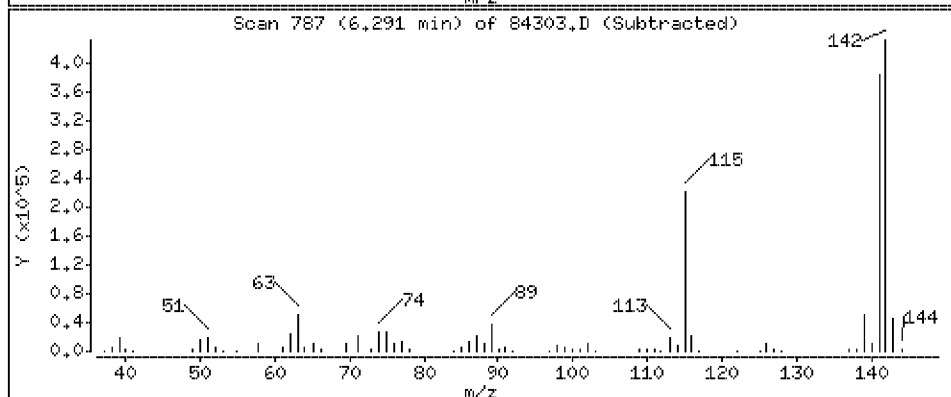
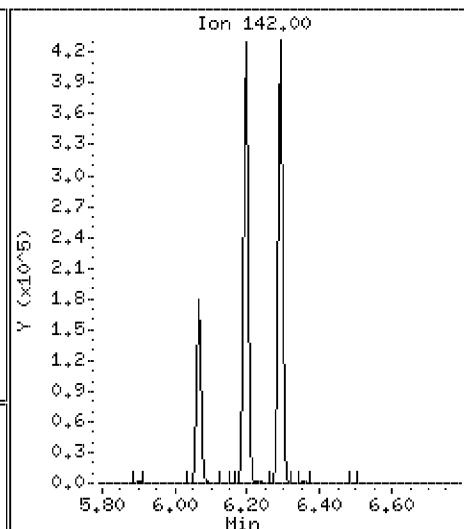
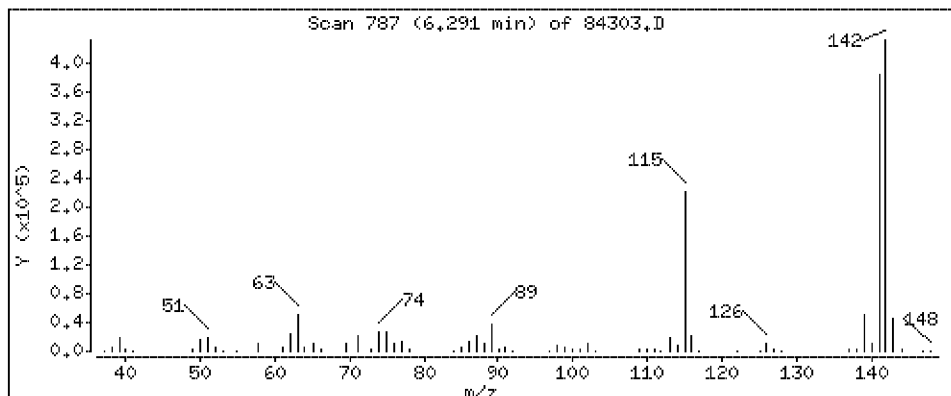
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

54 1-Methylnaphthalene

Concentration: 1240 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

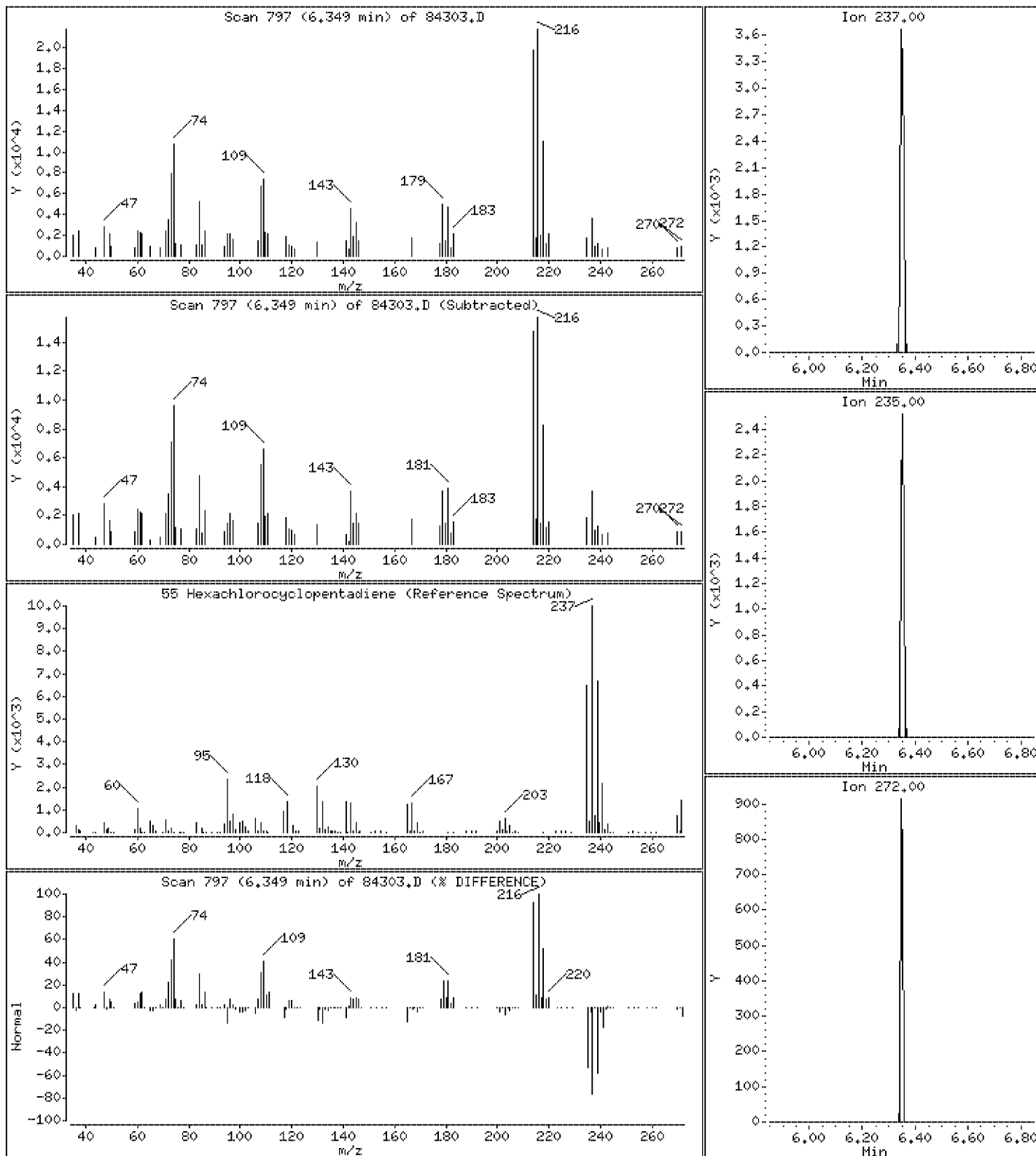
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

55 Hexachlorocyclopentadiene

Concentration: 16.1 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

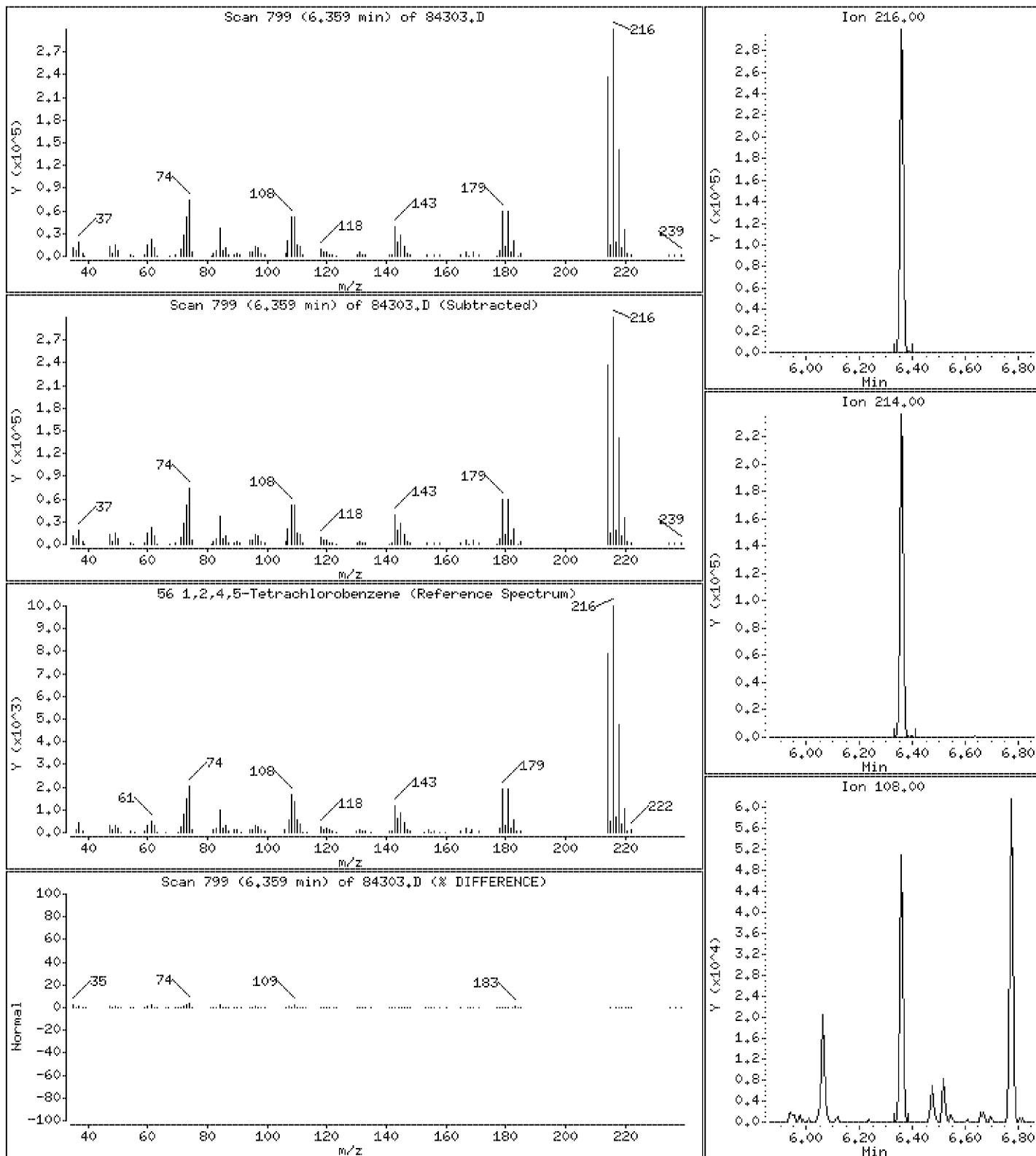
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

56 1,2,4,5-Tetrachlorobenzene

Concentration: 1090 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

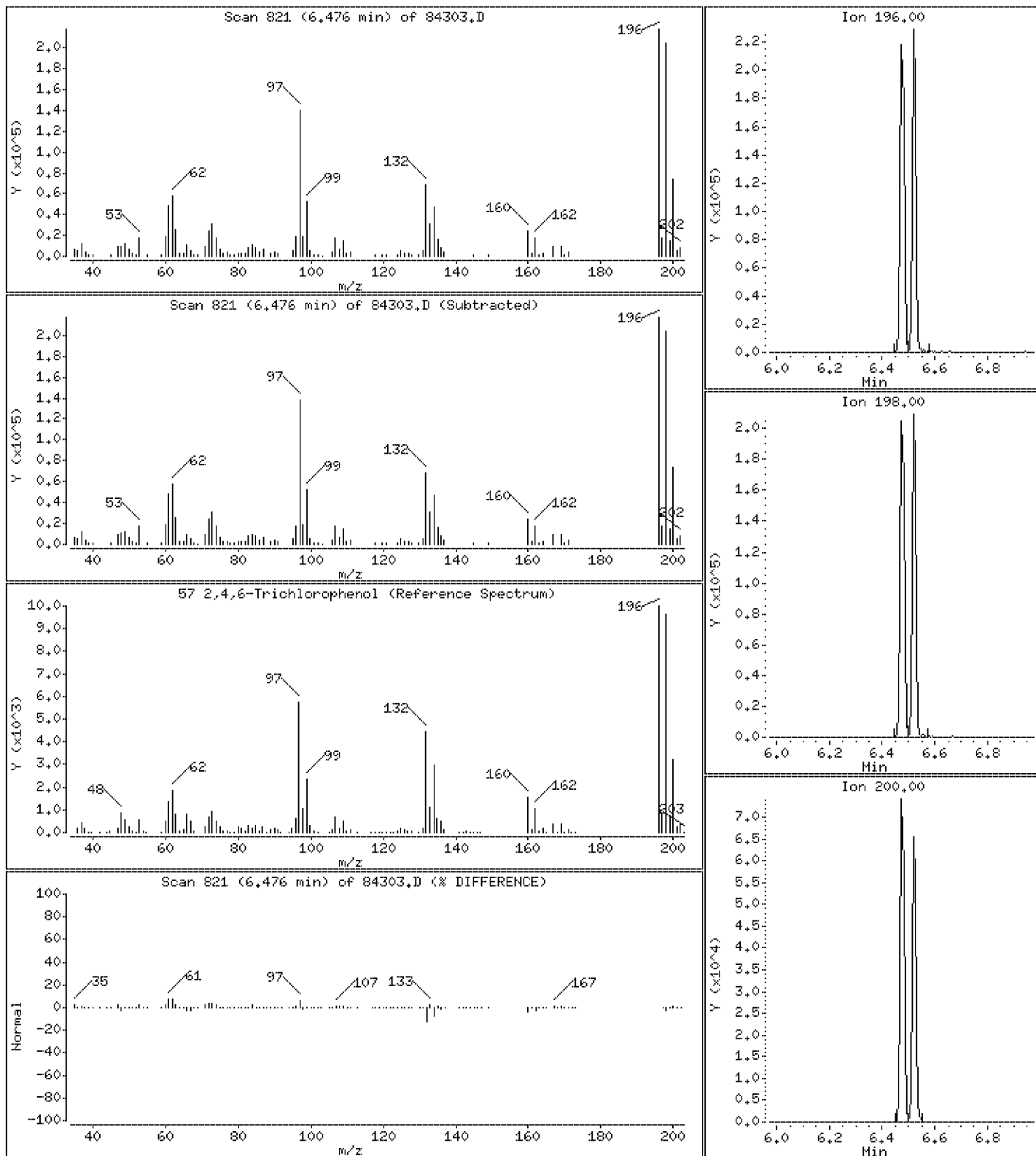
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

57 2,4,6-Trichlorophenol

Concentration: 1190 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

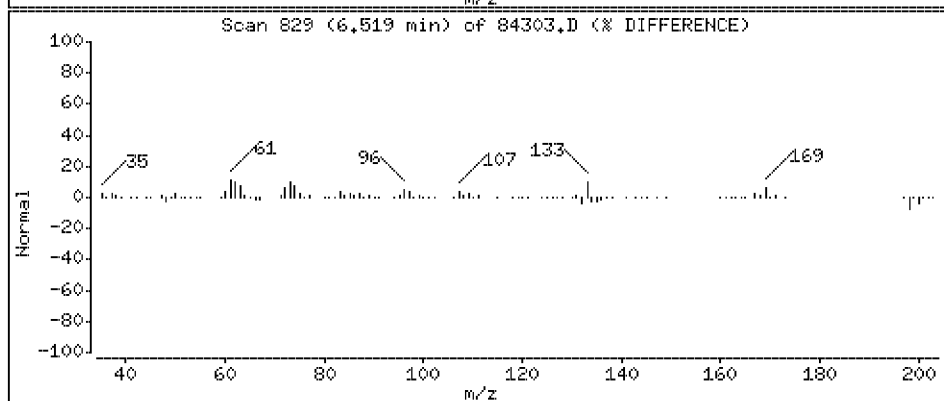
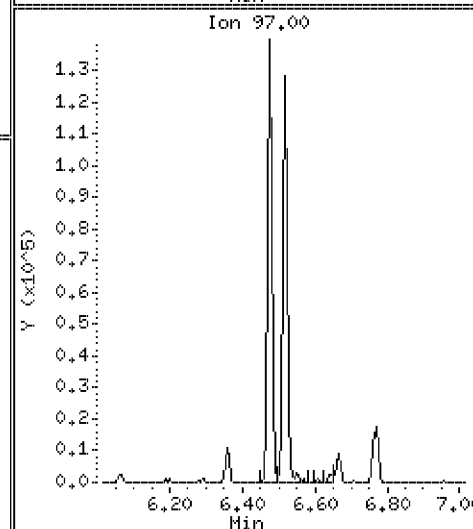
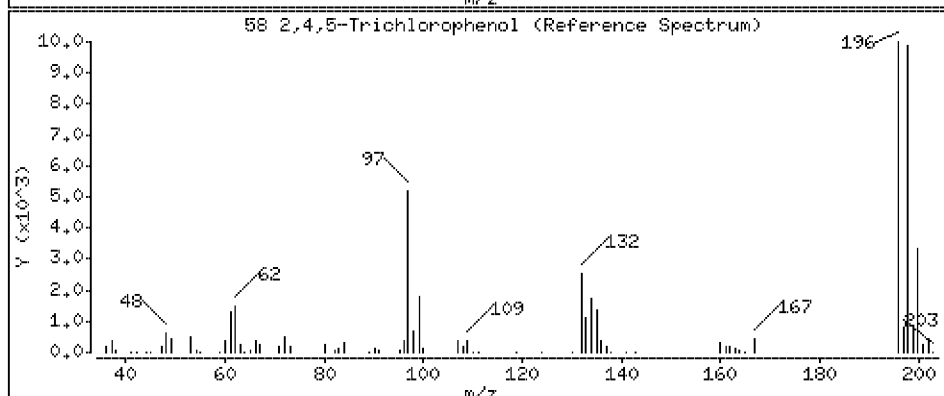
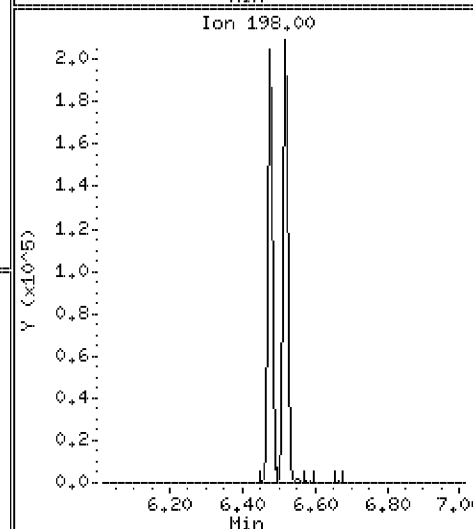
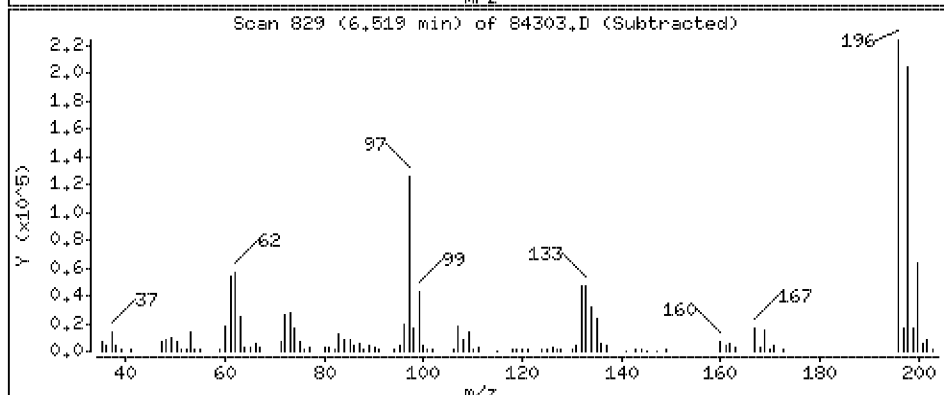
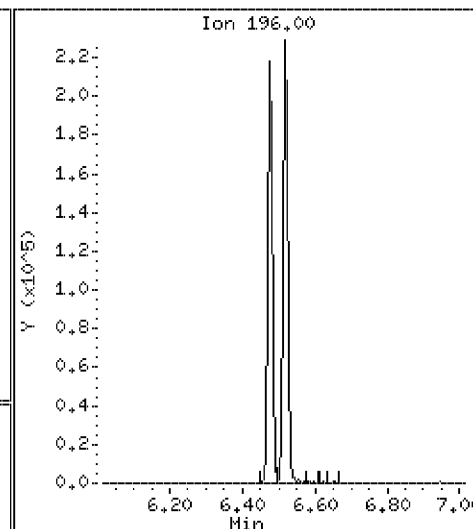
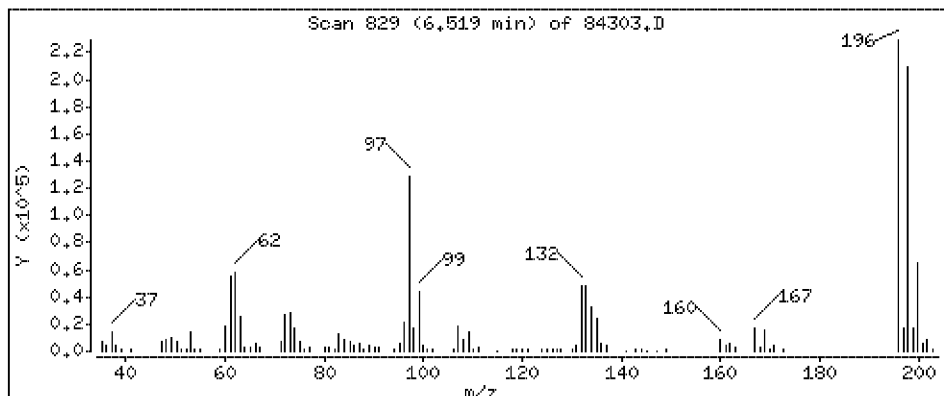
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

58 2,4,5-Trichlorophenol

Concentration: 1390 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

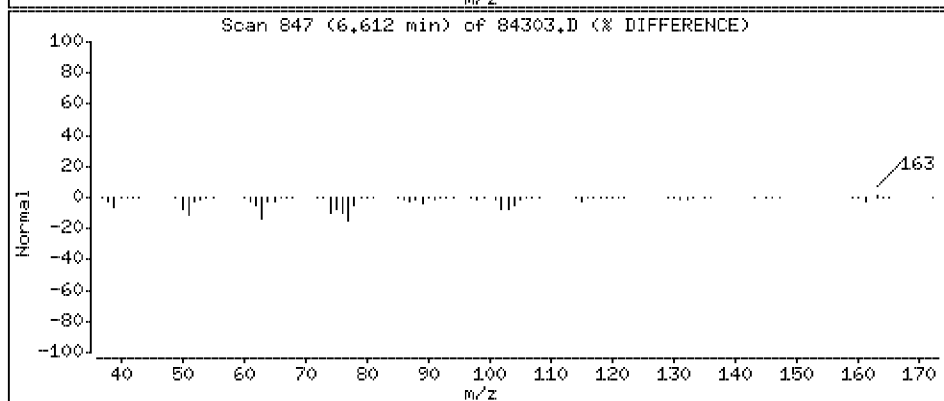
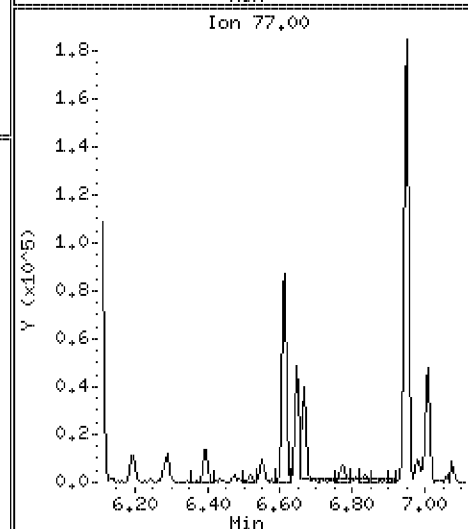
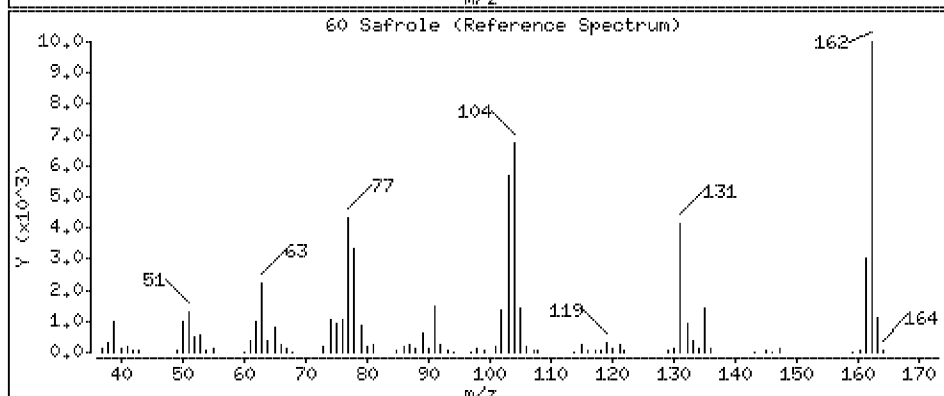
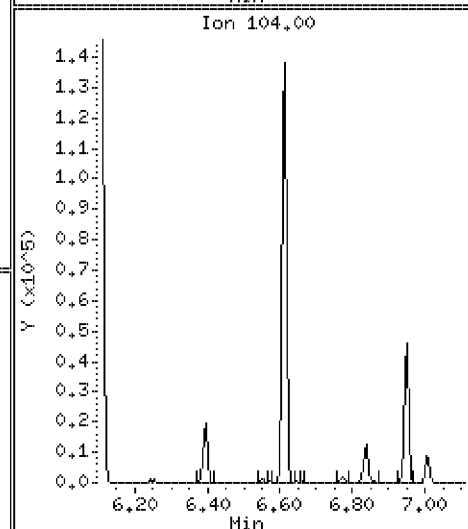
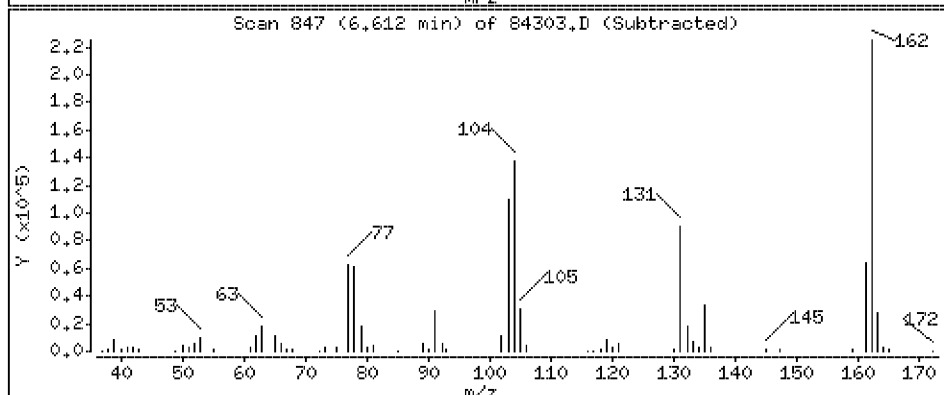
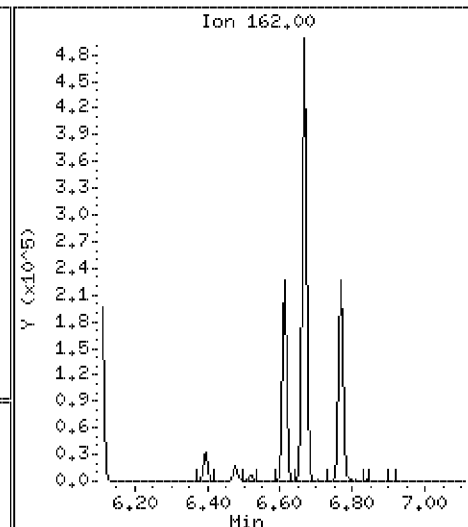
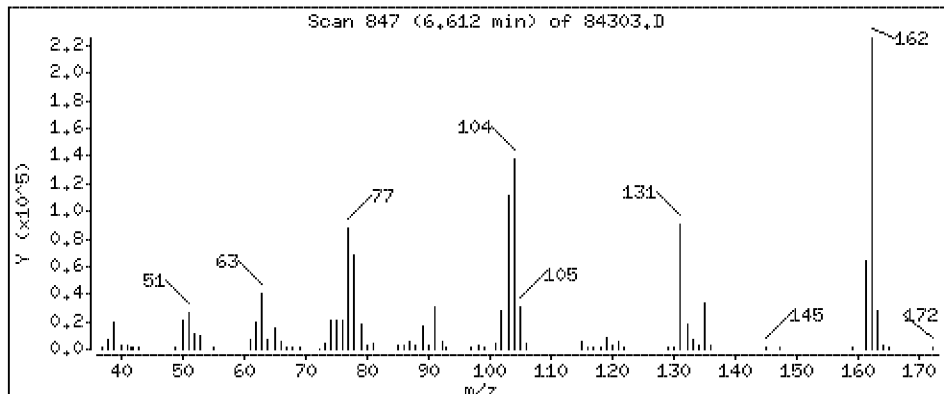
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

60 Safrole

Concentration: 1380 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

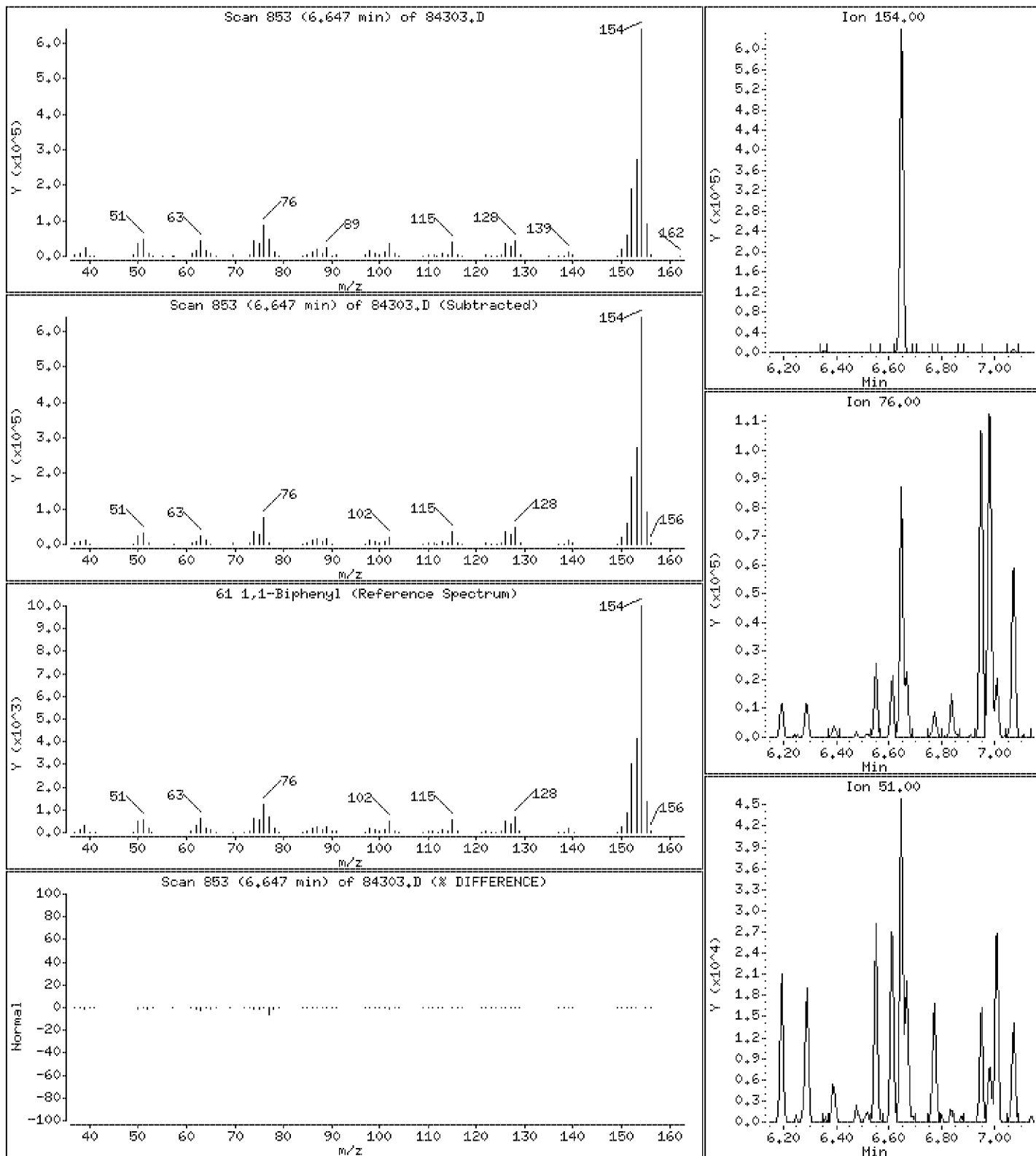
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

61 1,1-Biphenyl

Concentration: 1090 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

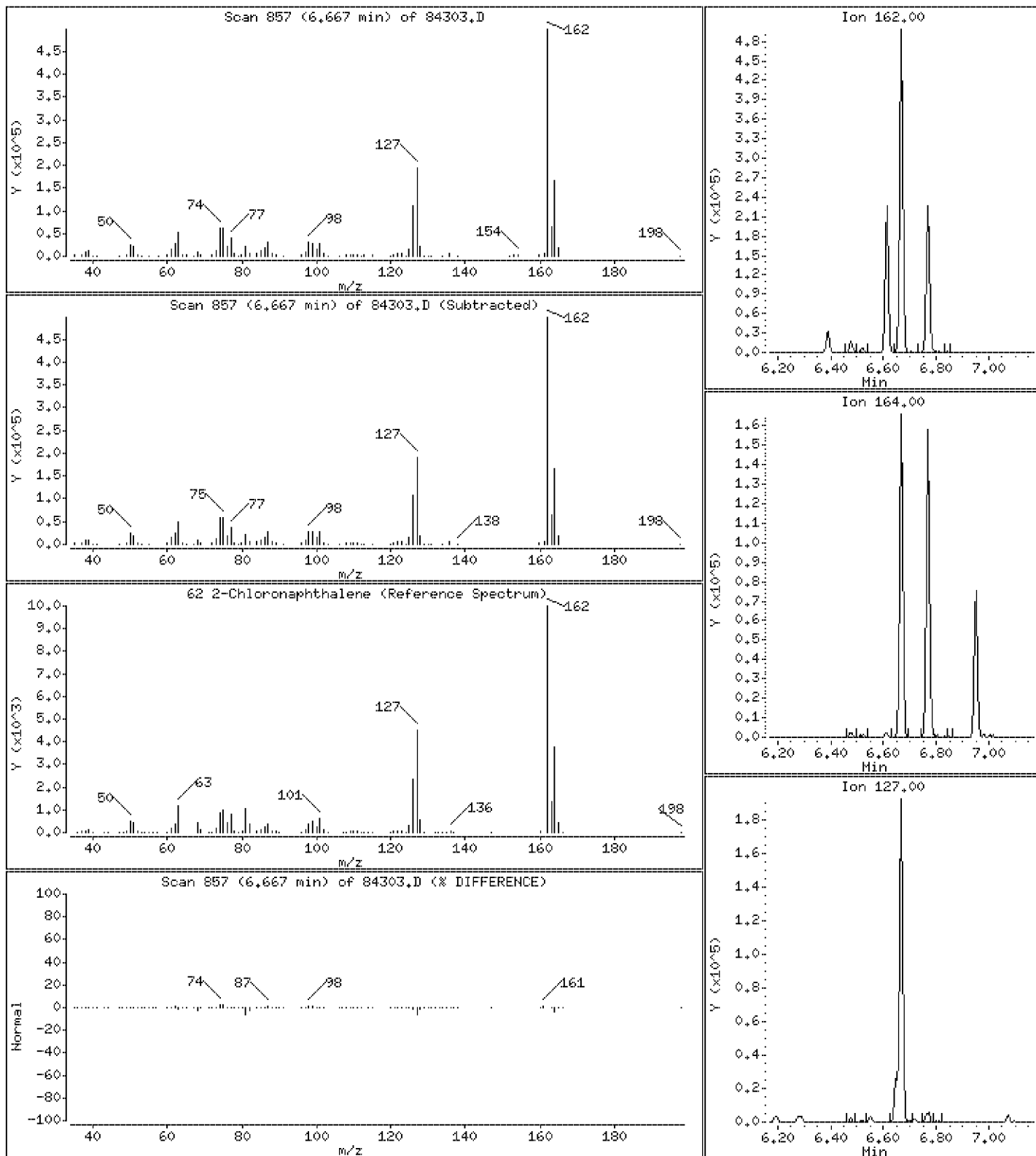
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

62 2-Chloronaphthalene

Concentration: 1130 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

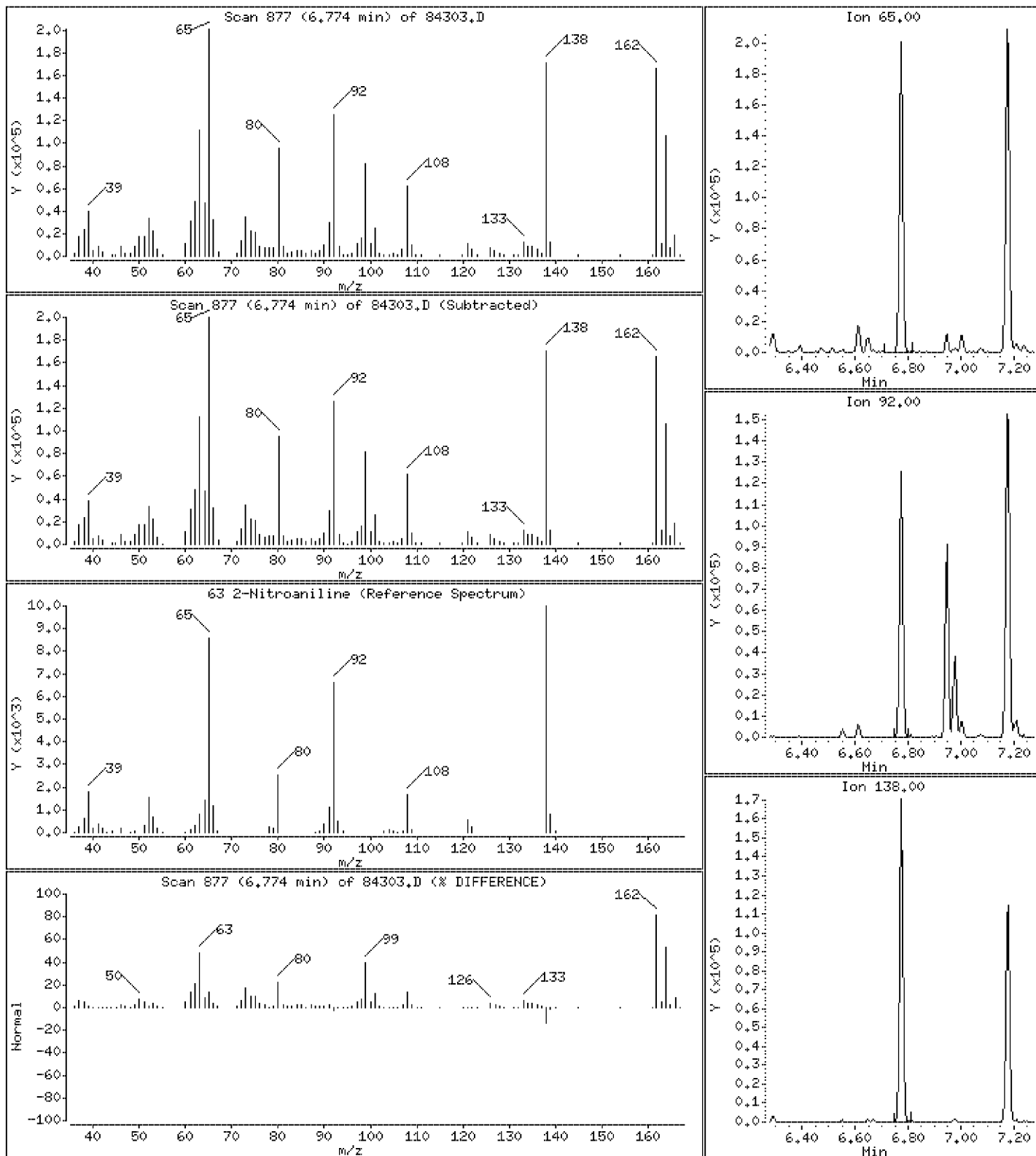
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

63 2-Nitroaniline

Concentration: 1400 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

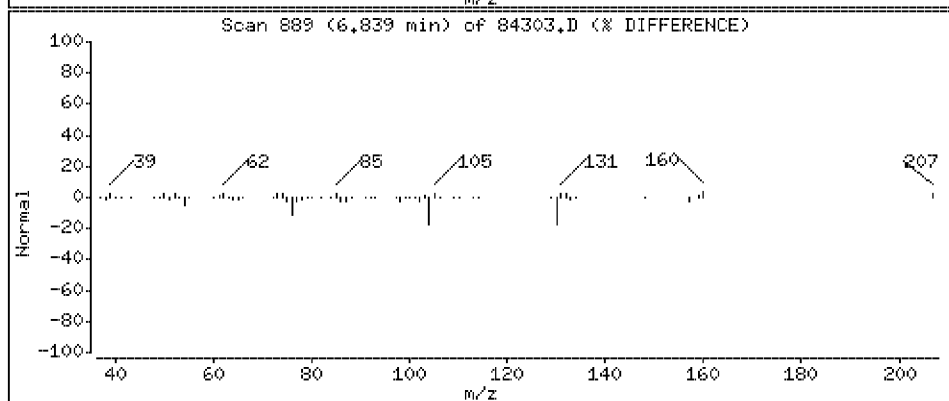
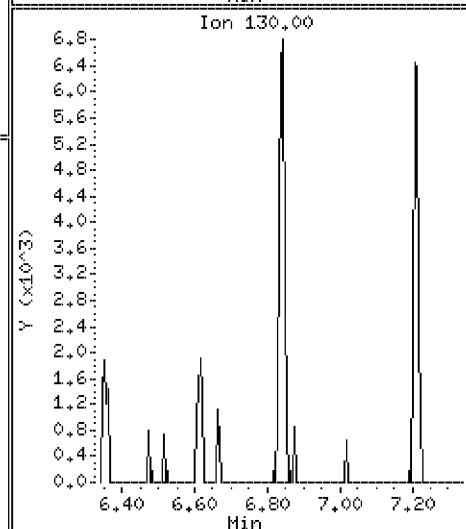
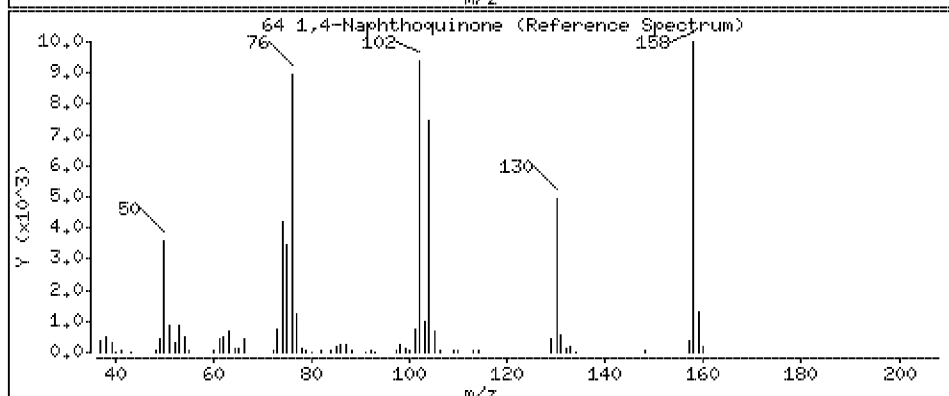
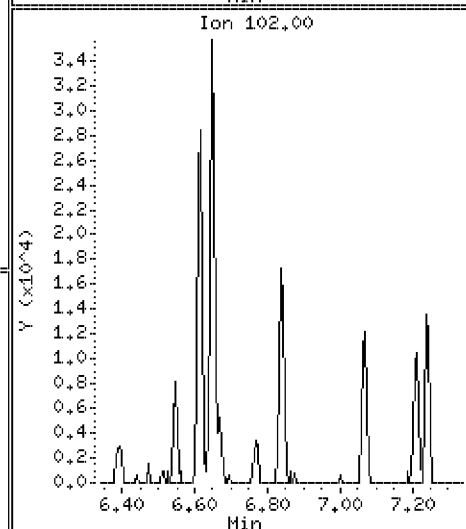
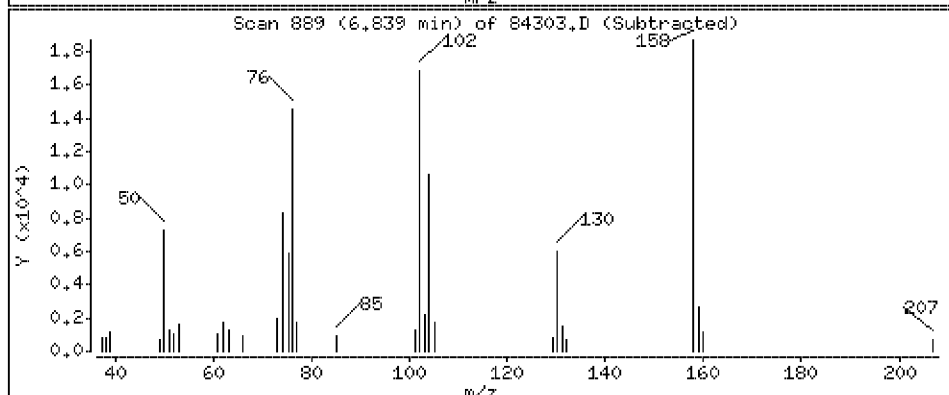
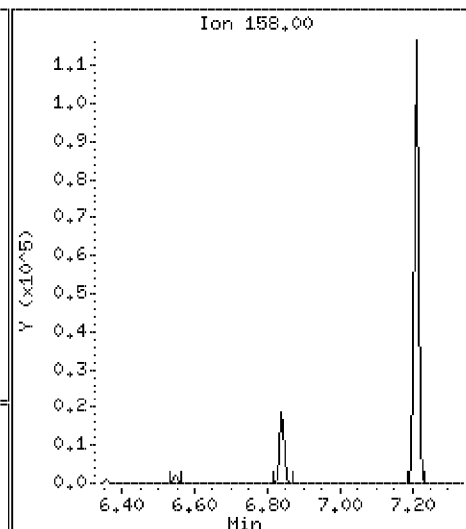
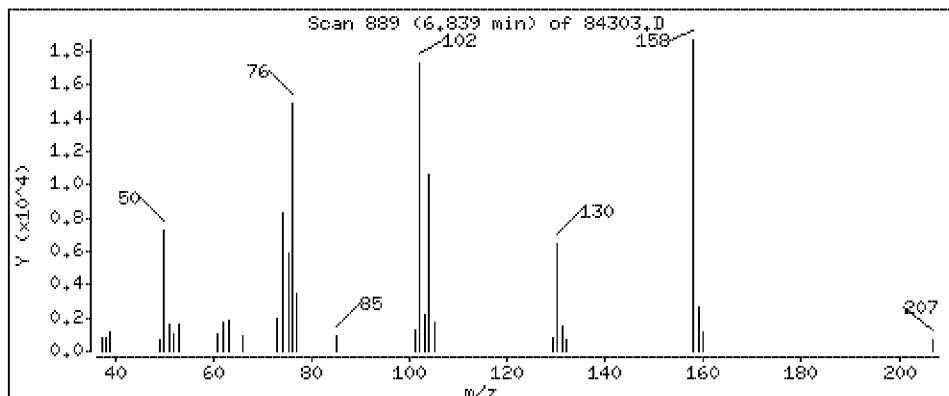
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

64 1,4-Naphthoquinone

Concentration: 125 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

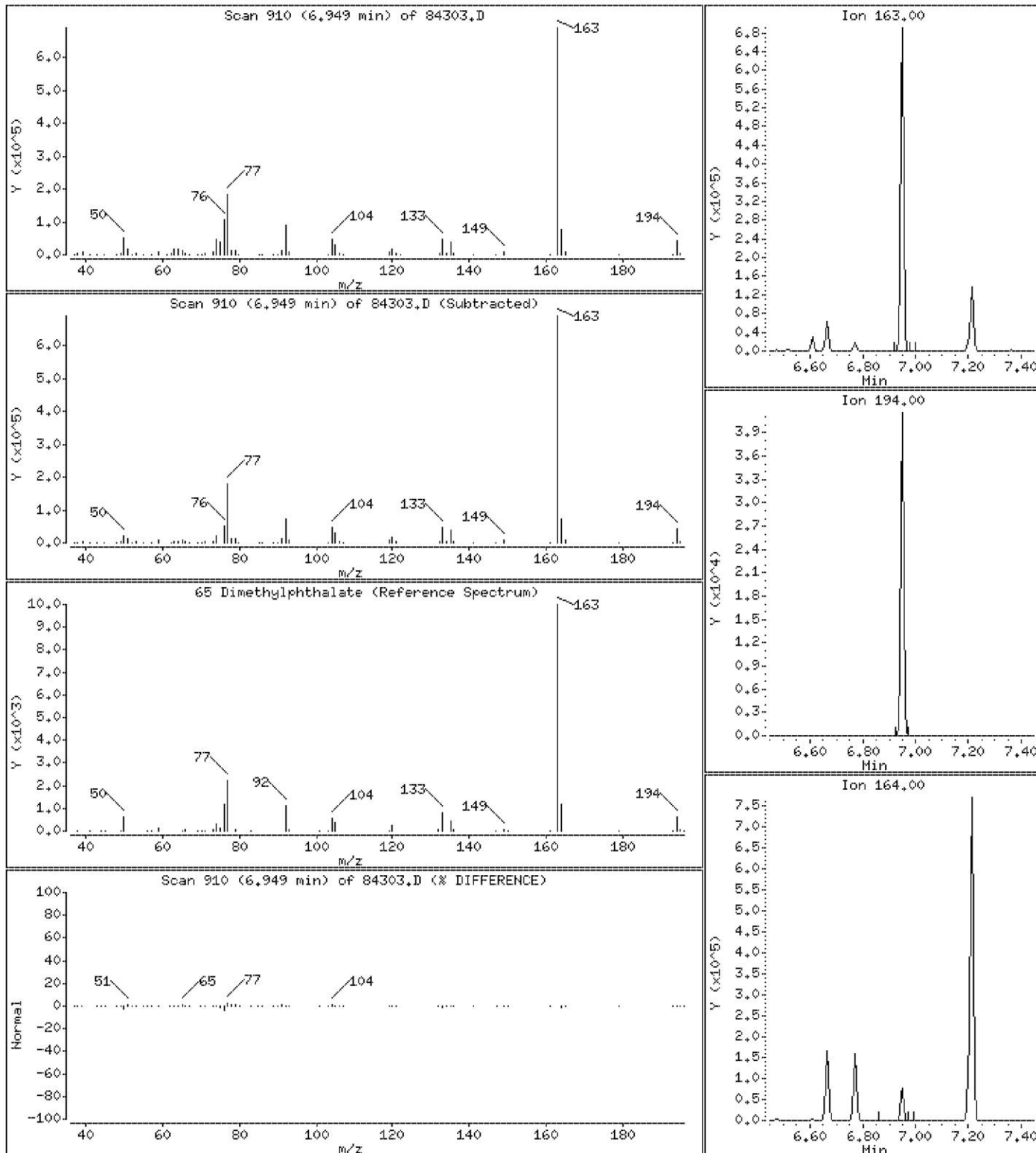
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

65 Dimethylphthalate

Concentration: 1330 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

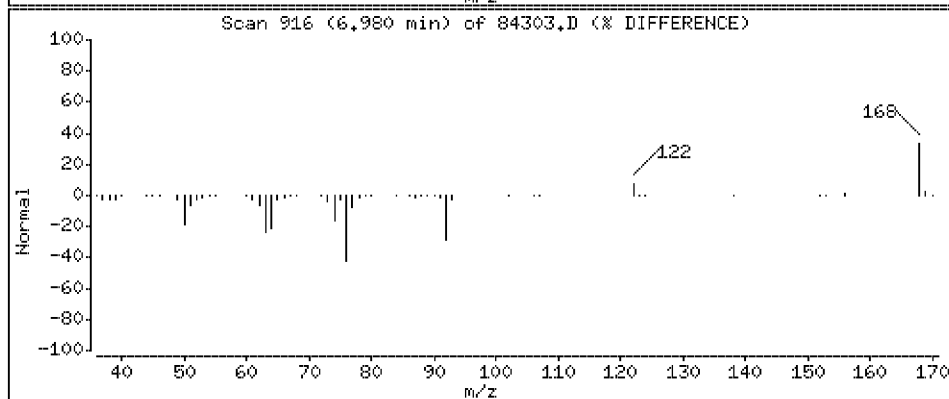
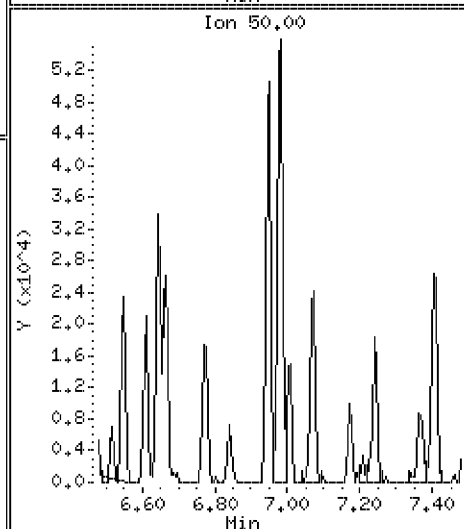
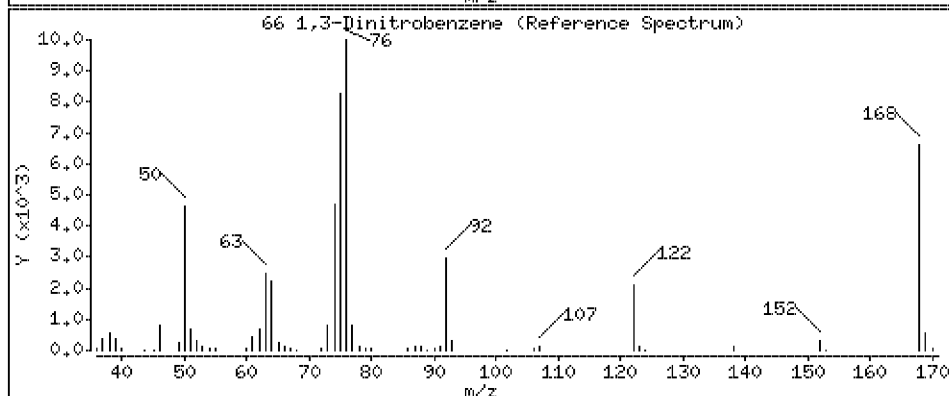
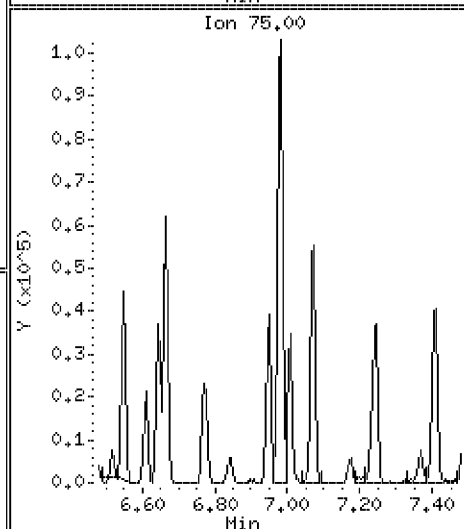
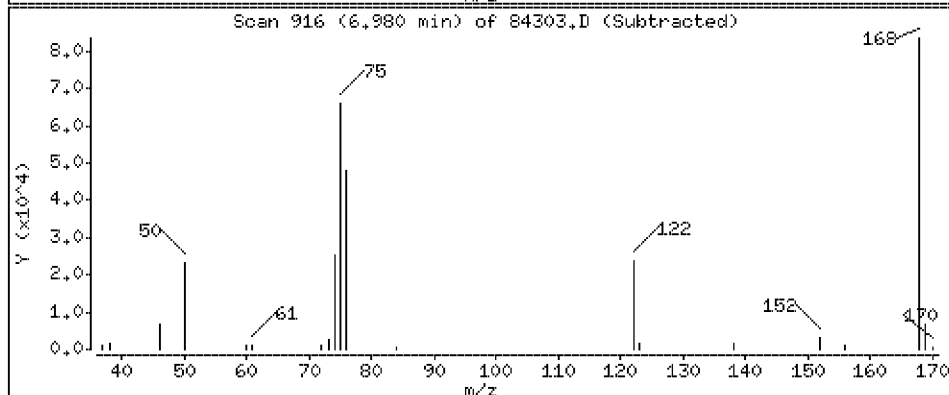
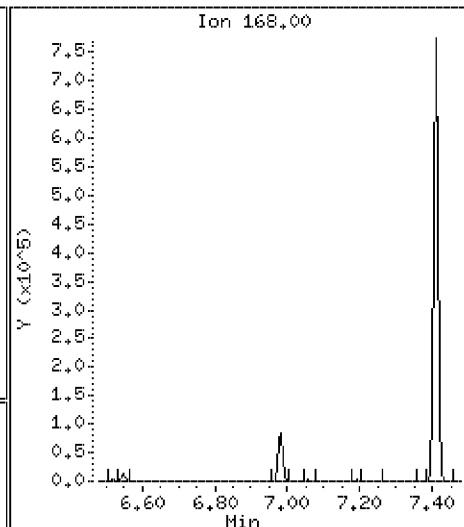
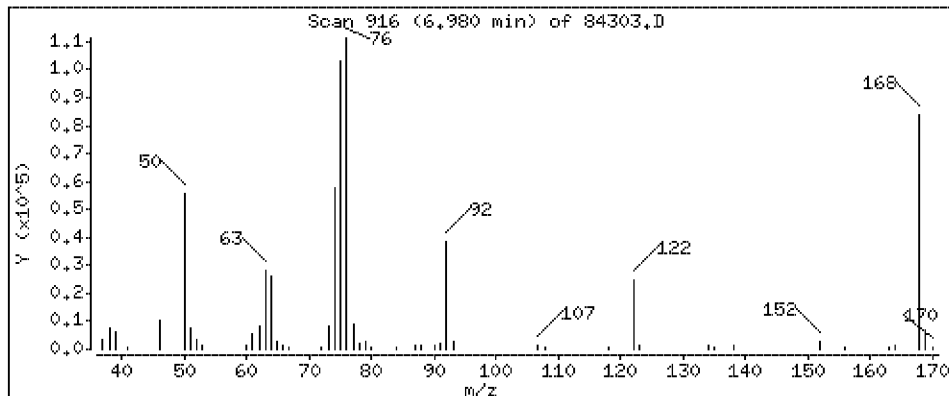
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

66 1,3-Dinitrobenzene

Concentration: 1180 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

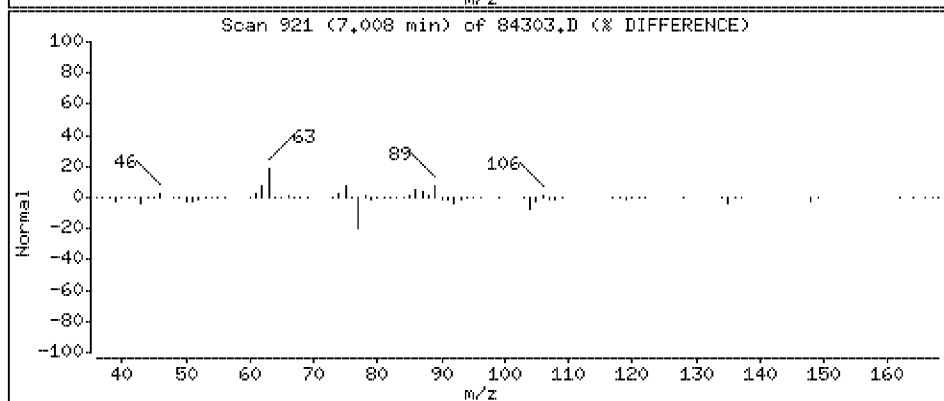
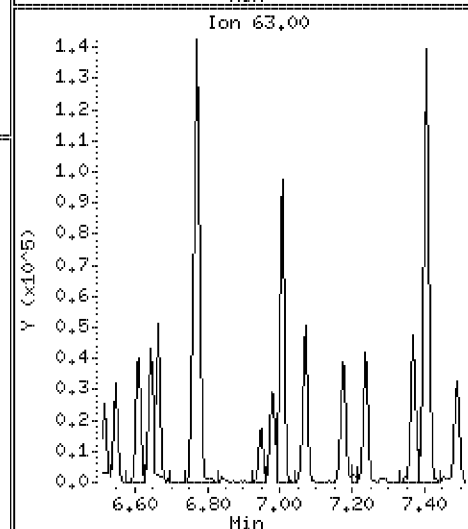
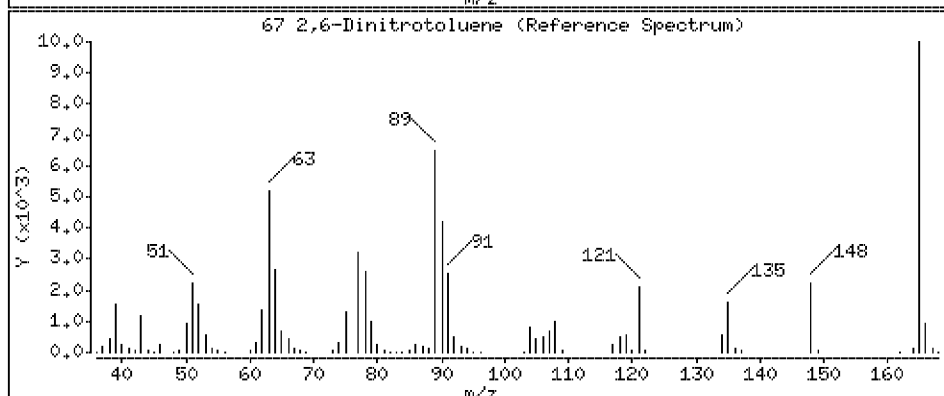
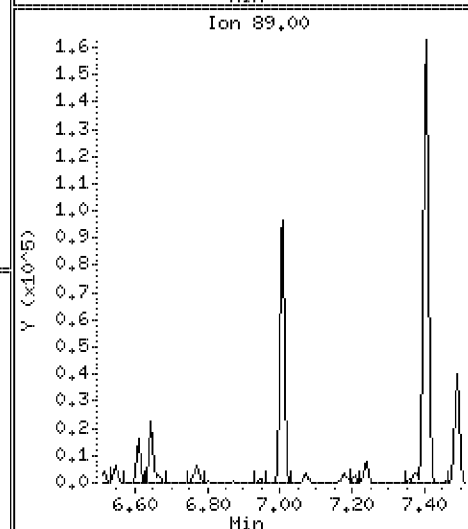
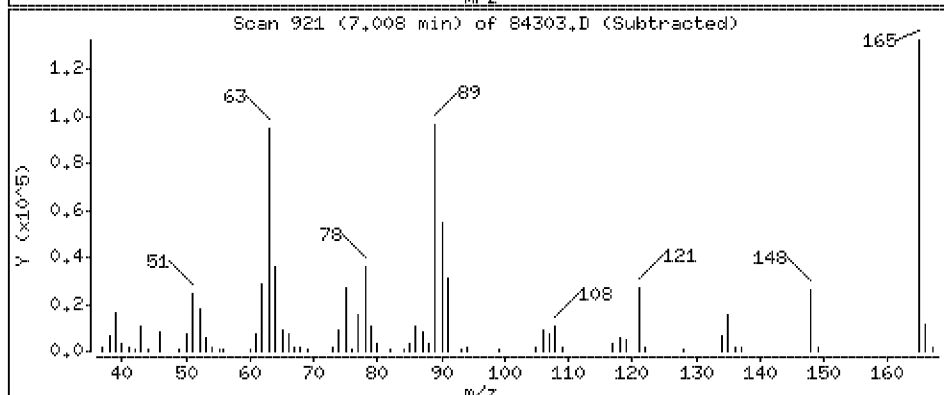
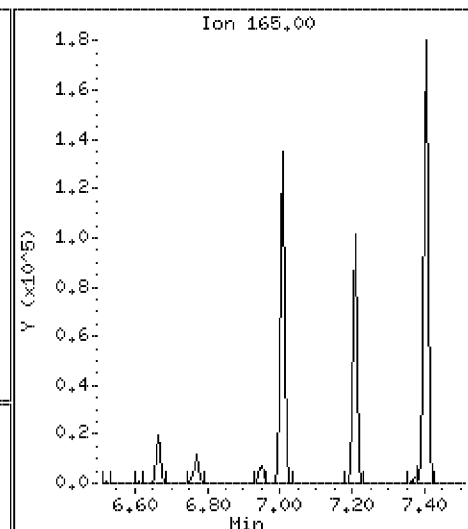
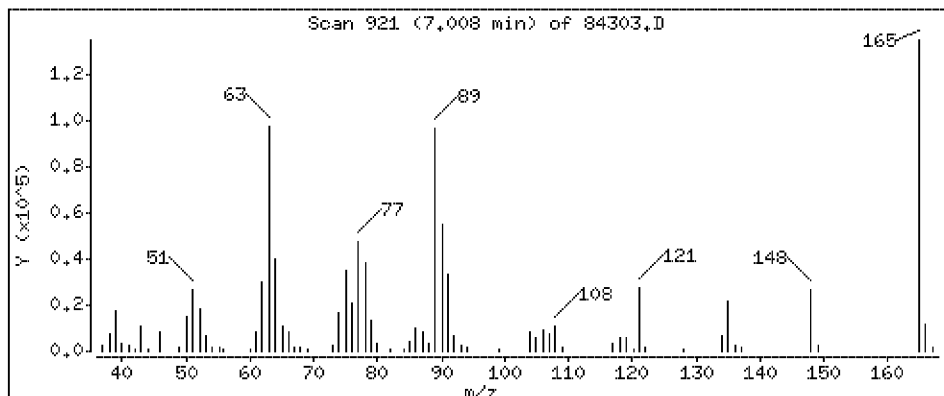
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

67 2,6-Dinitrotoluene

Concentration: 1150 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

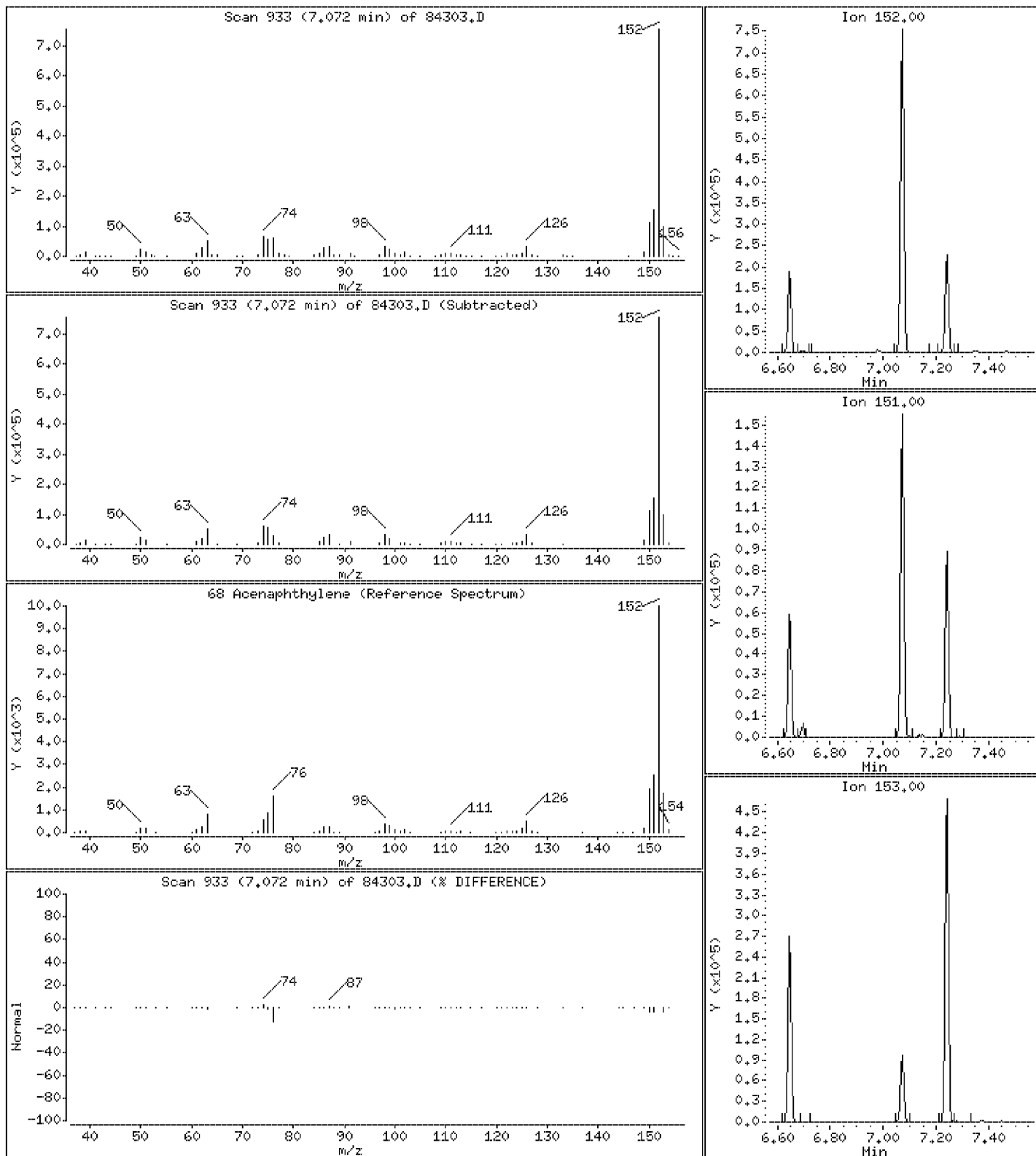
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

68 Acenaphthylene

Concentration: 1200 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

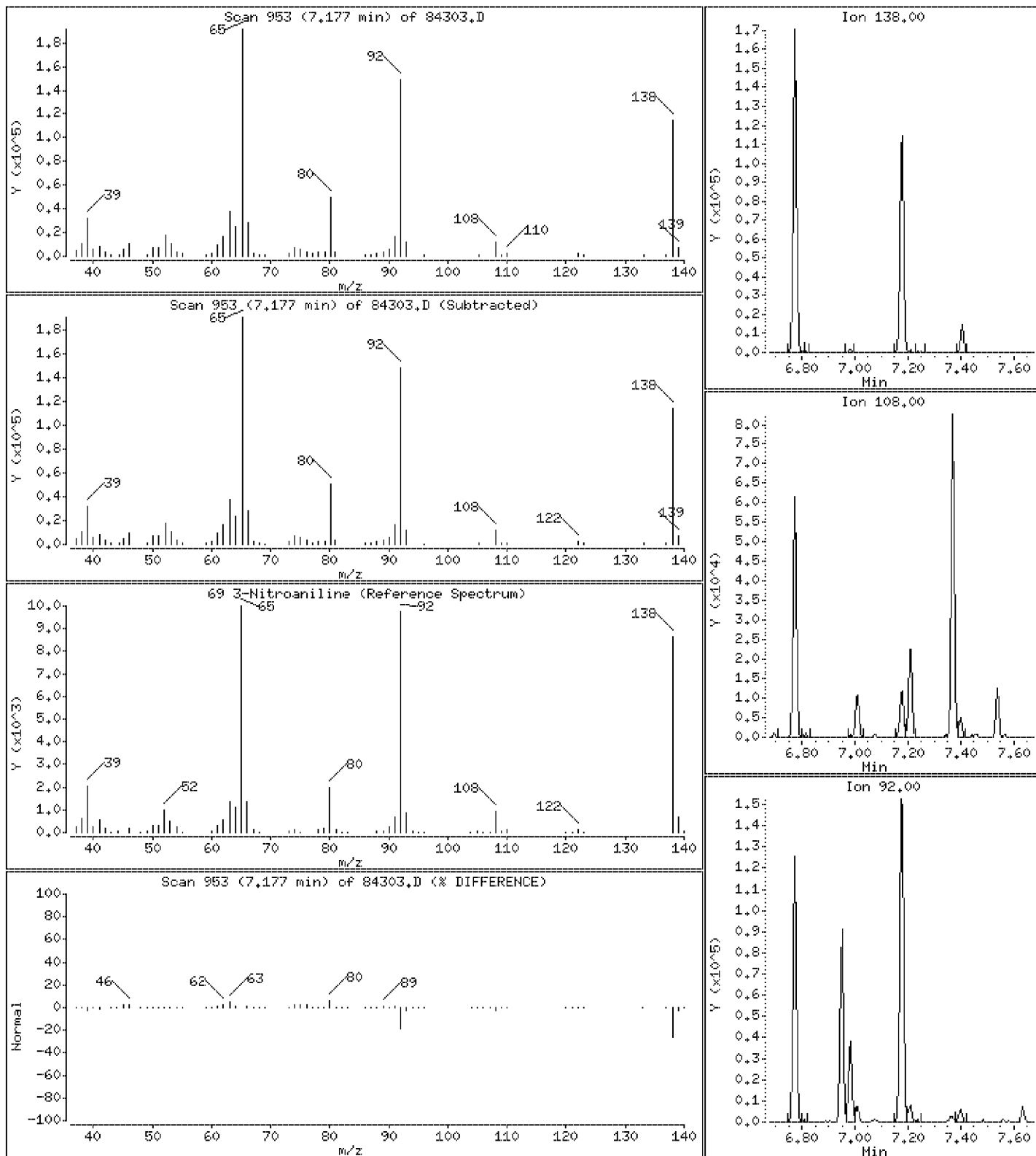
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

69 3-Nitroaniline

Concentration: 1290 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

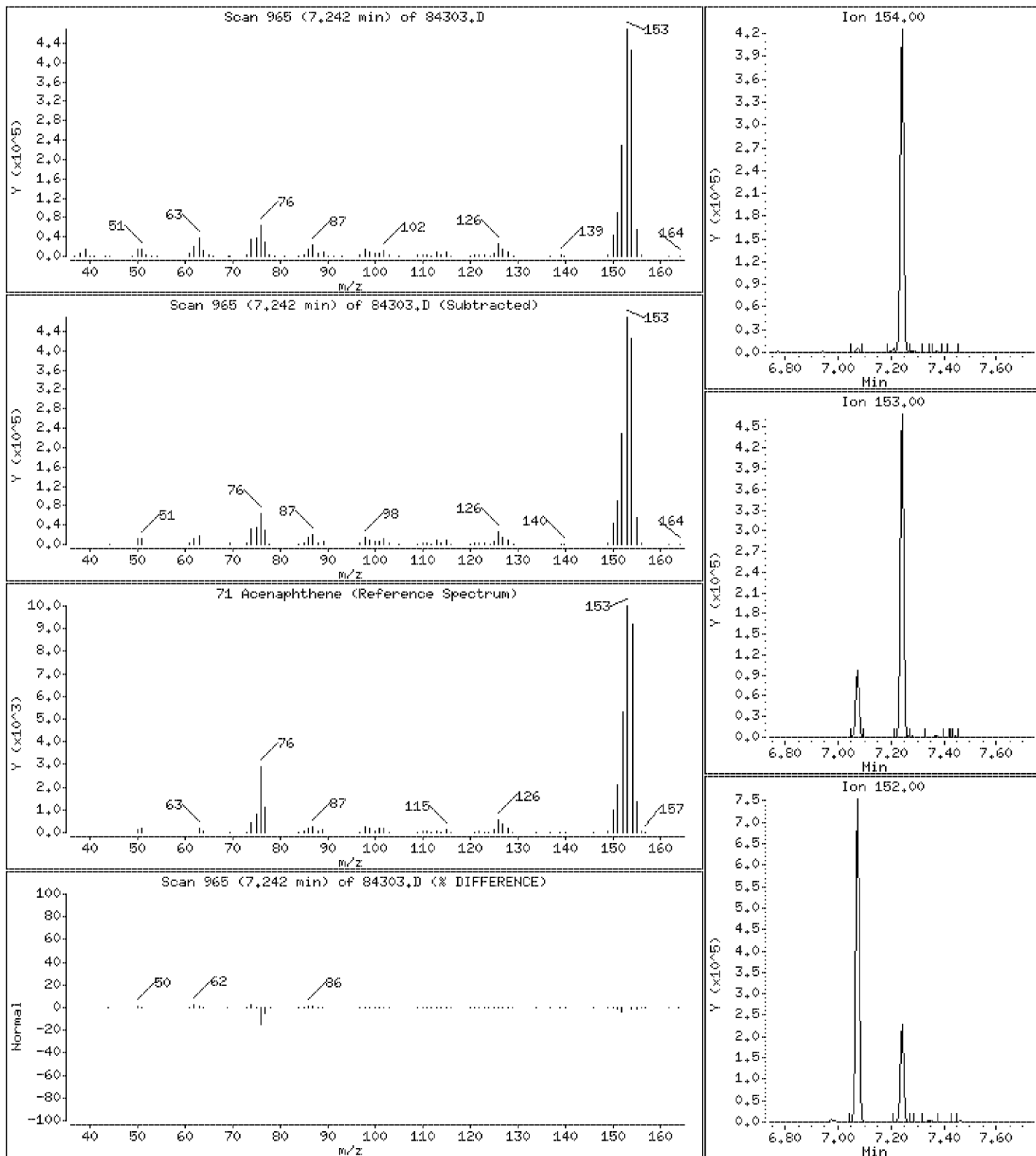
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

71 Acenaphthene

Concentration: 1140 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

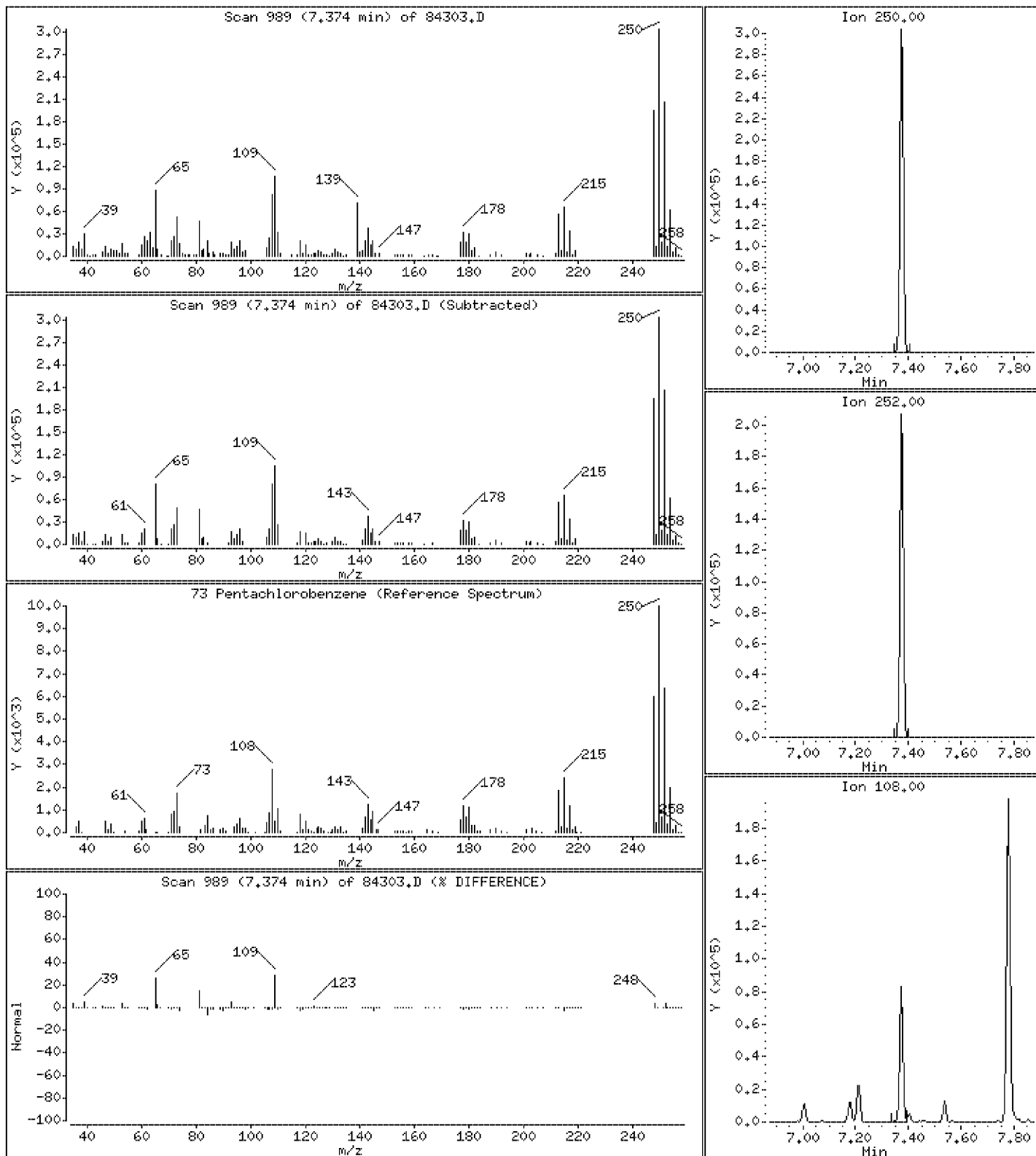
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

73 Pentachlorobenzene

Concentration: 1160 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

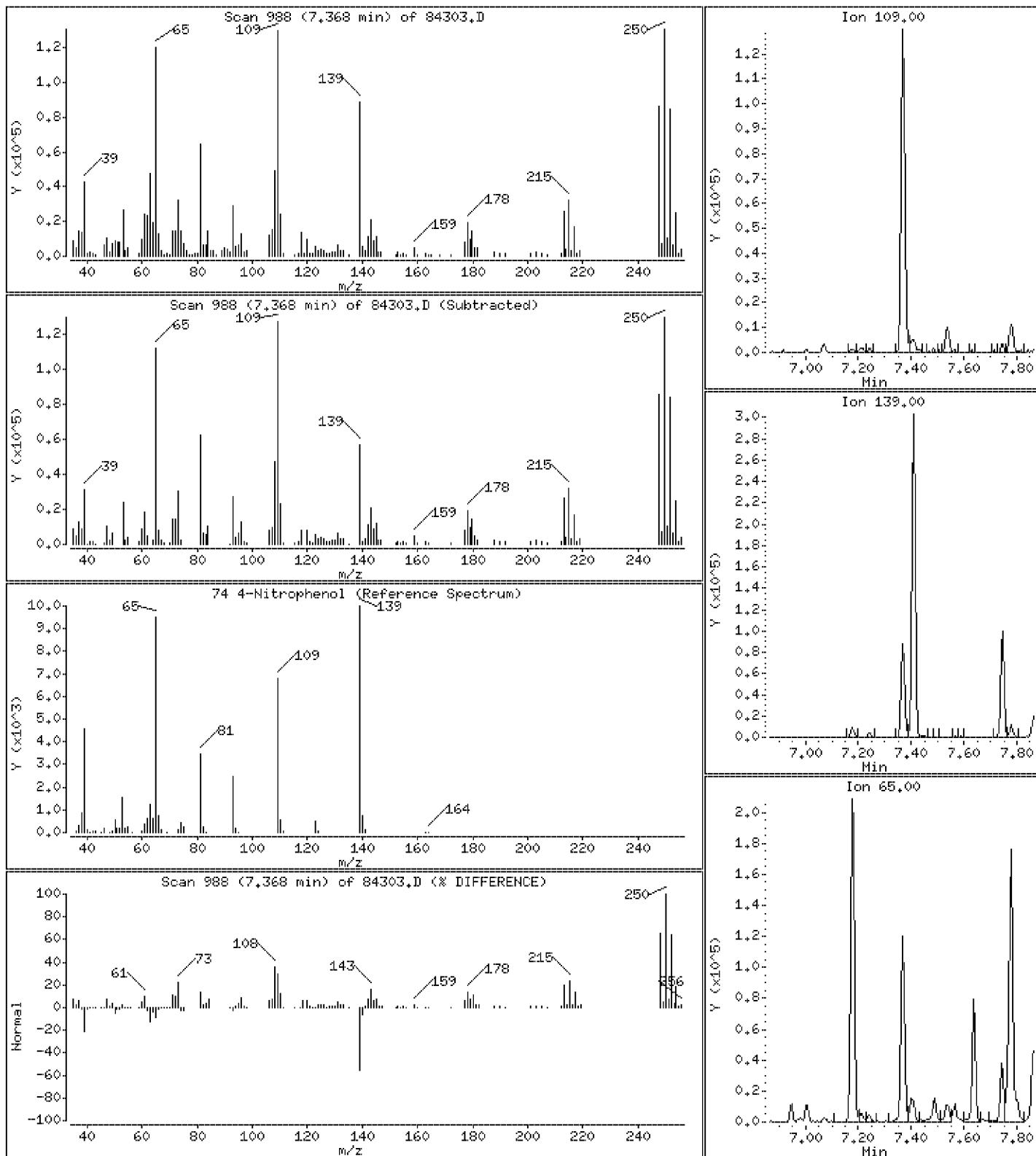
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

74 4-Nitrophenol

Concentration: 1390 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

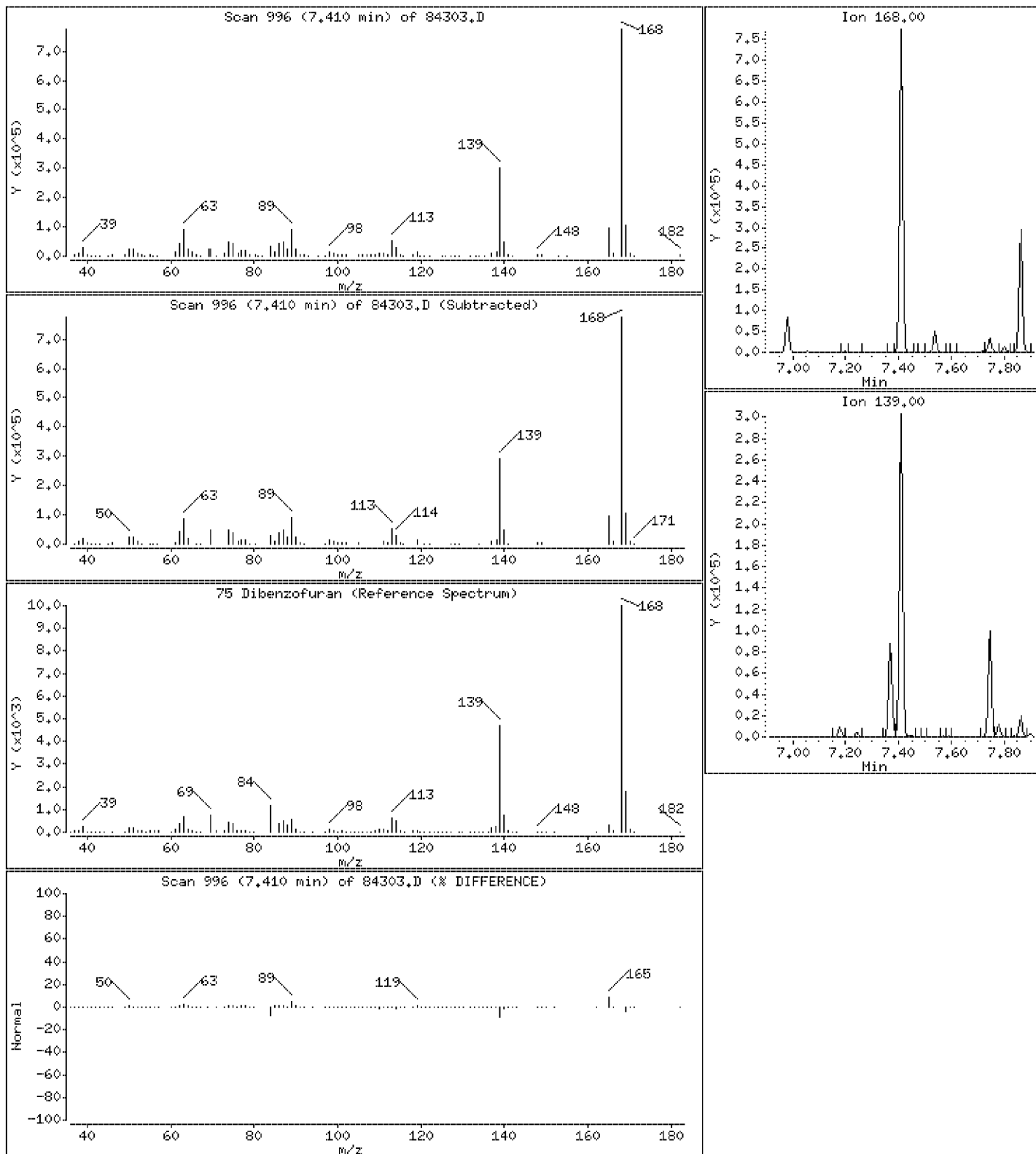
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

75 Dibenzofuran

Concentration: 1200 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

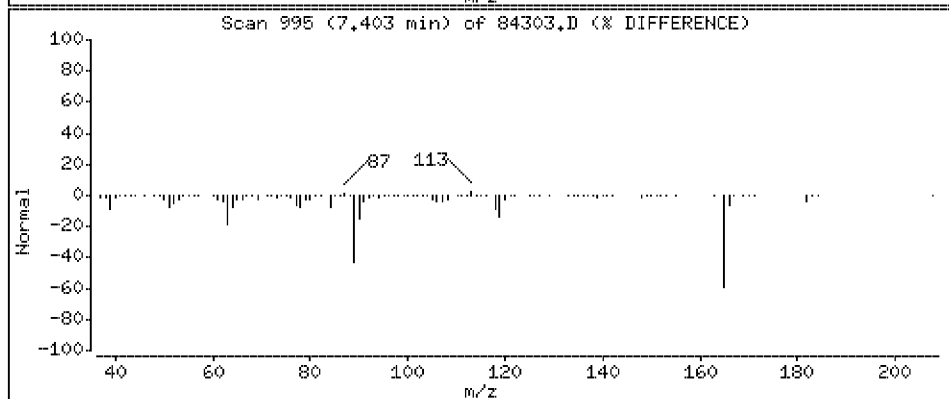
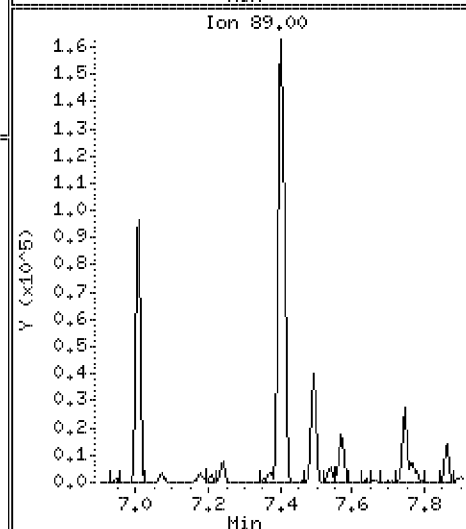
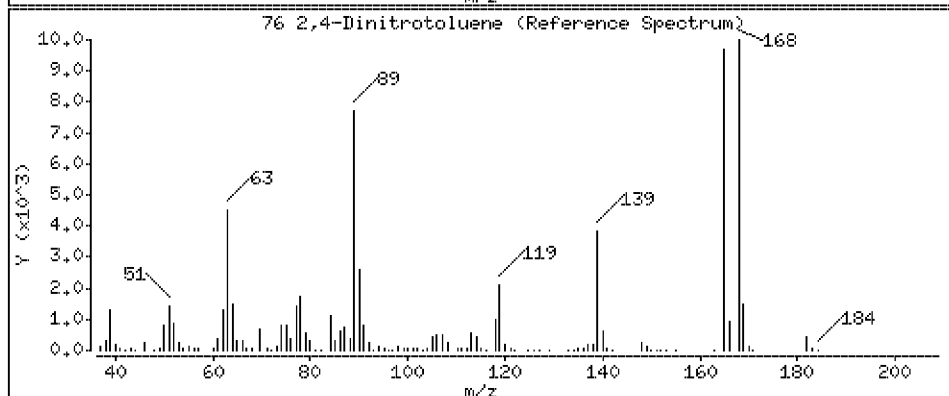
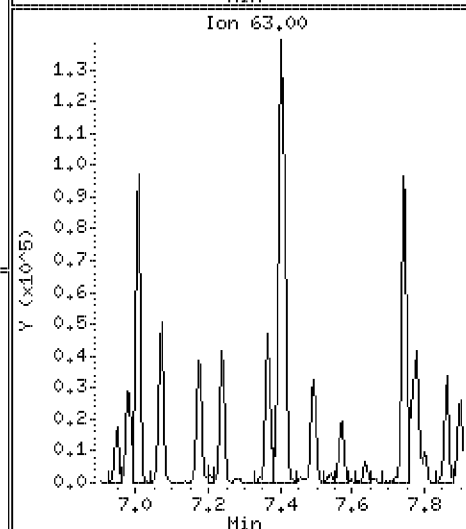
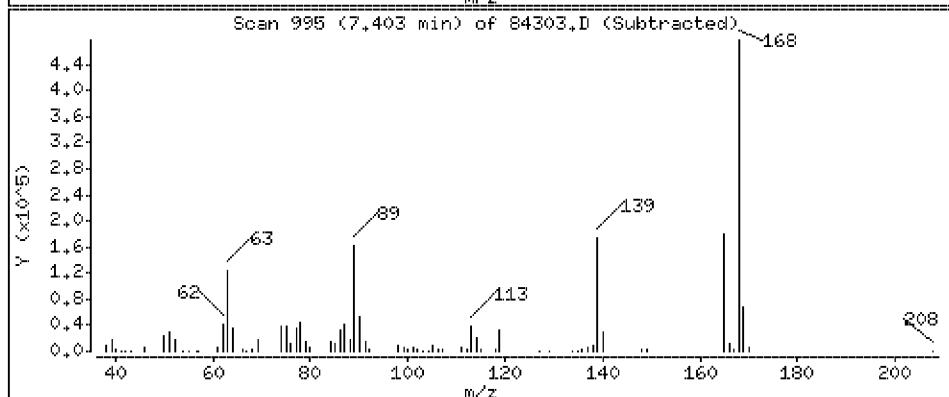
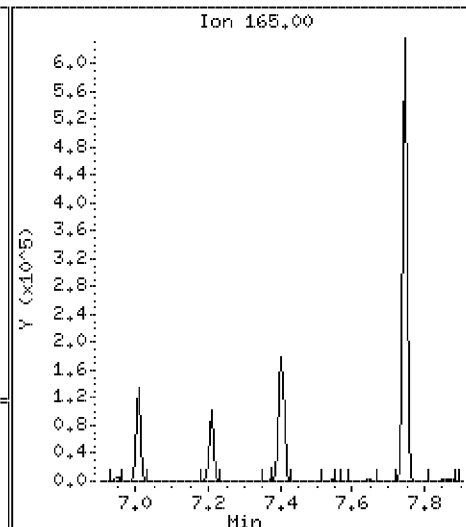
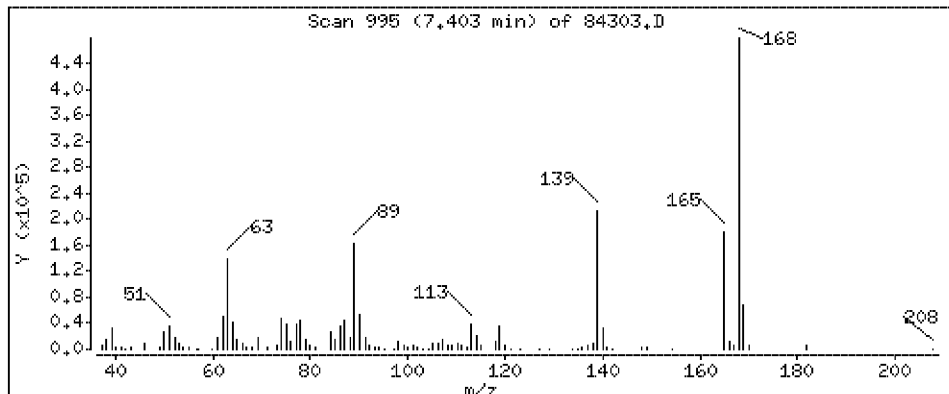
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

76 2,4-Dinitrotoluene

Concentration: 1150 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

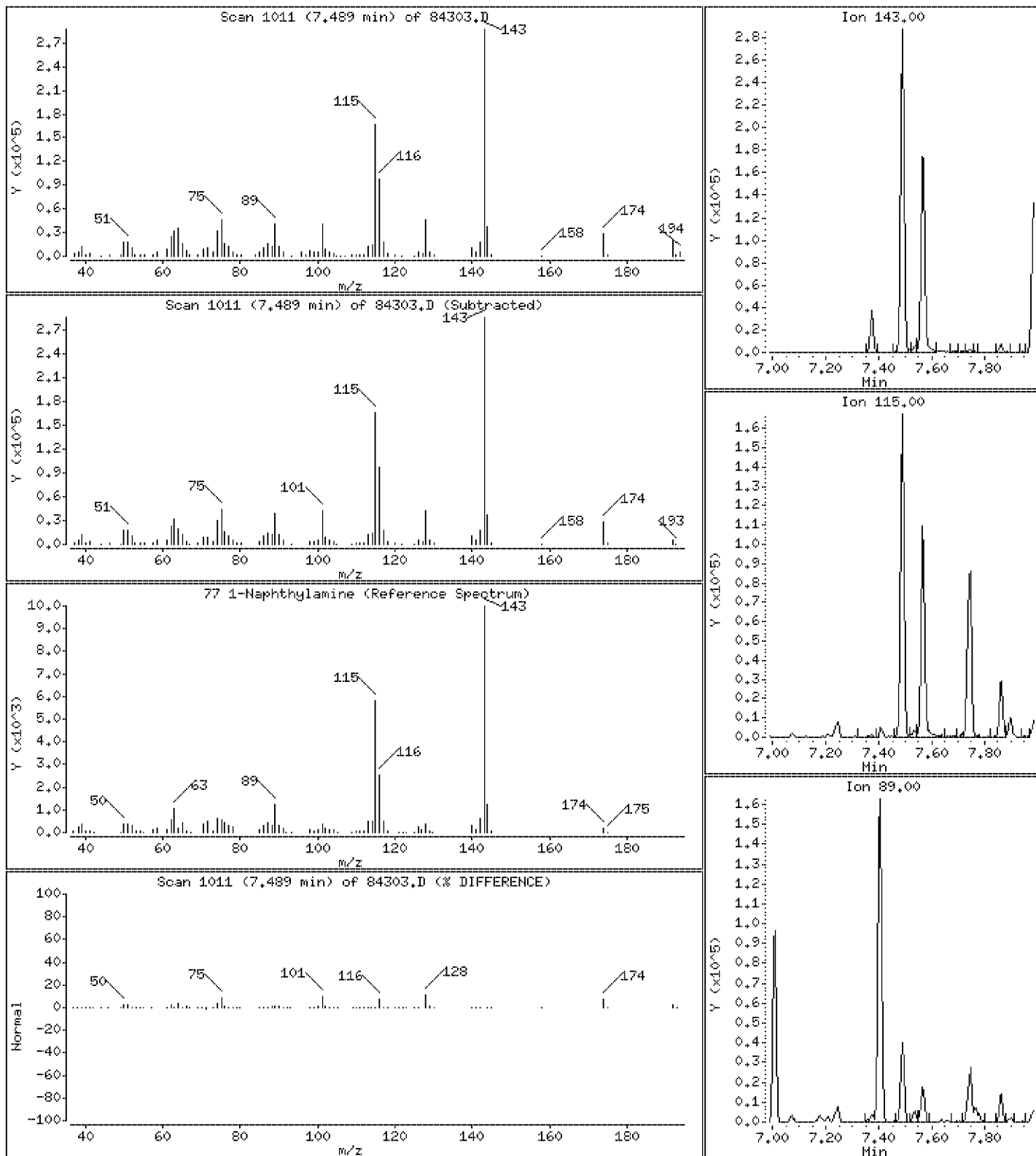
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

77 1-Naphthylamine

Concentration: 1180 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

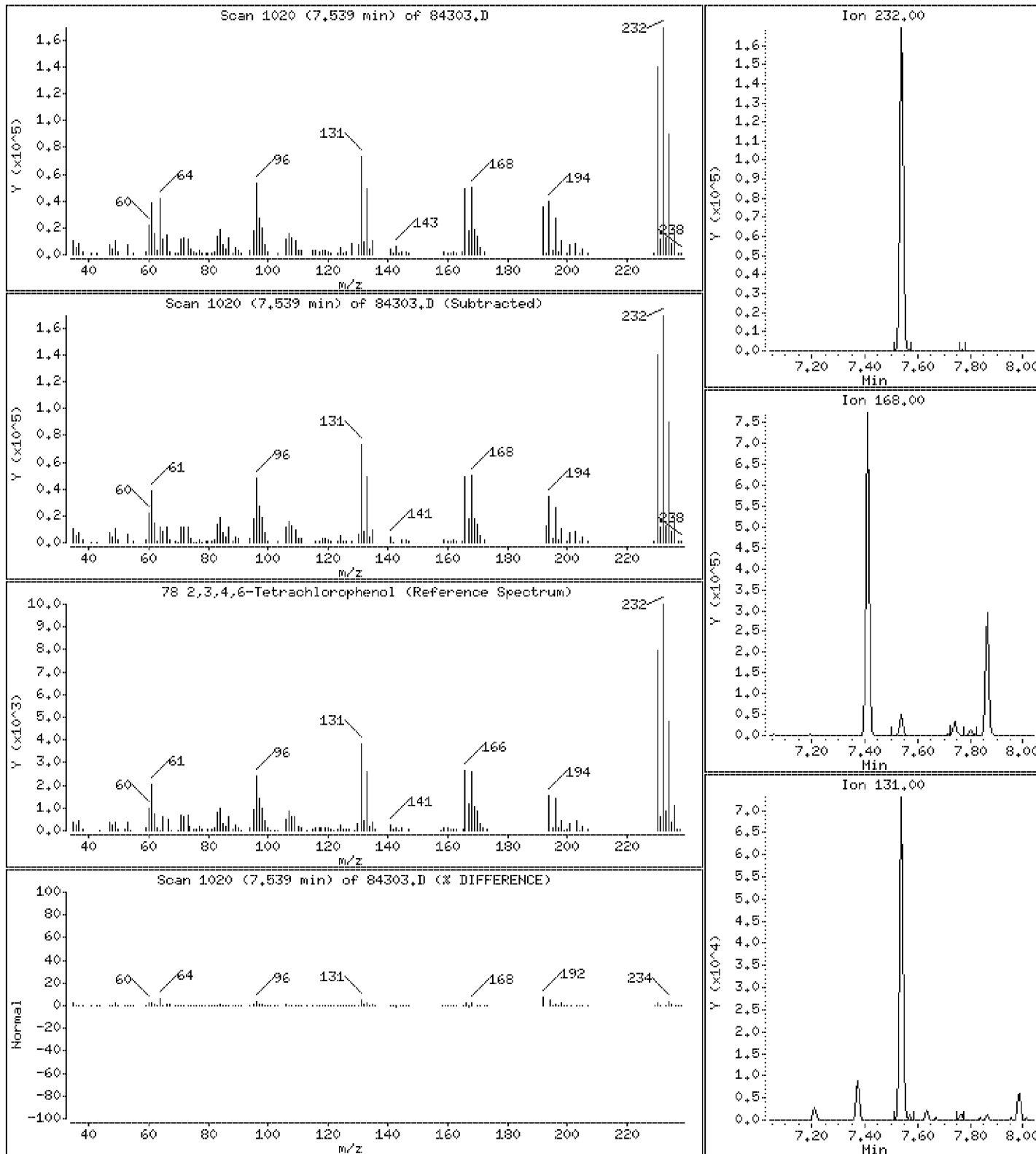
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

78 2,3,4,6-Tetrachlorophenol

Concentration: 1220 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

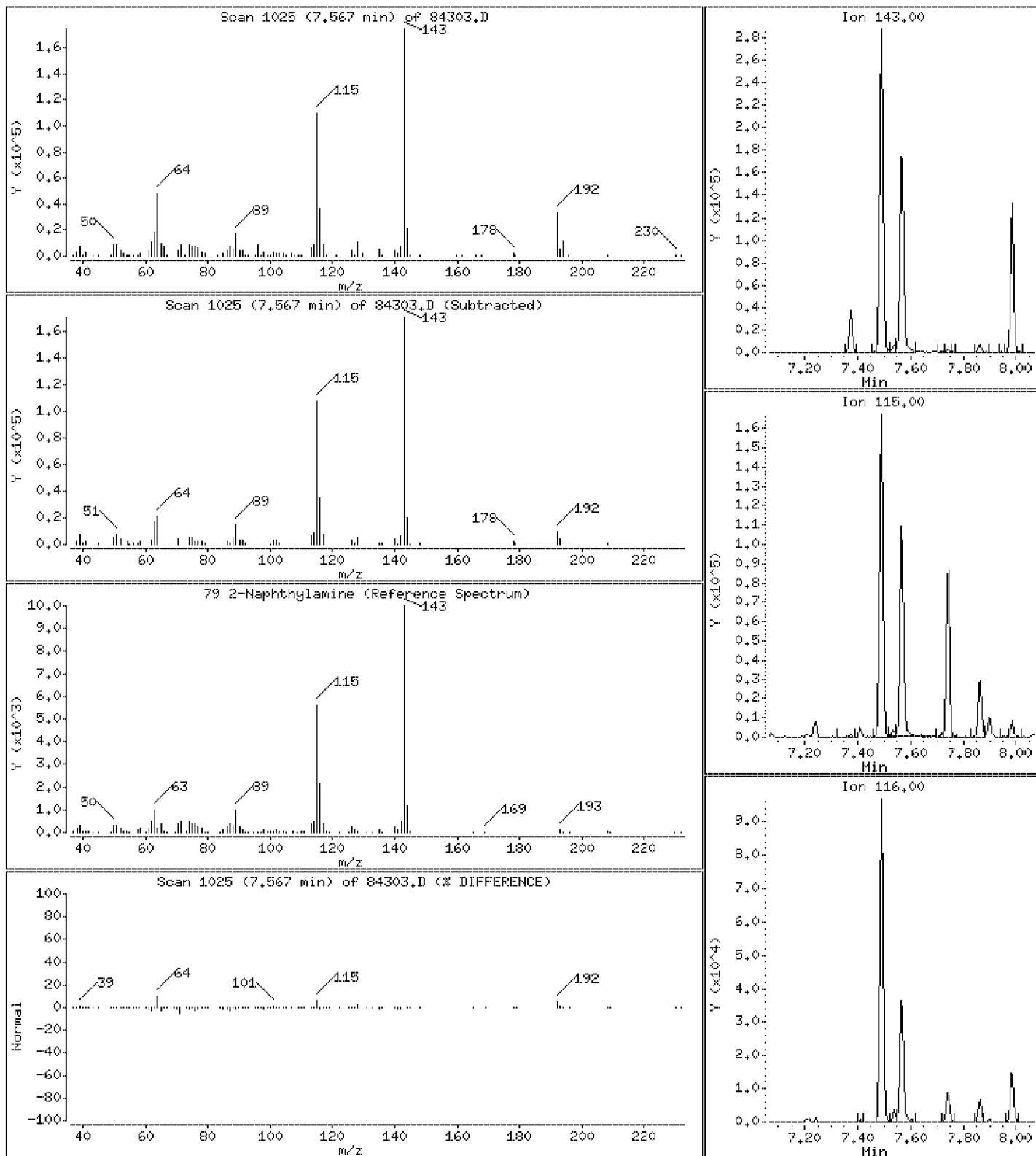
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

79 2-Naphthylamine

Concentration: 623 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

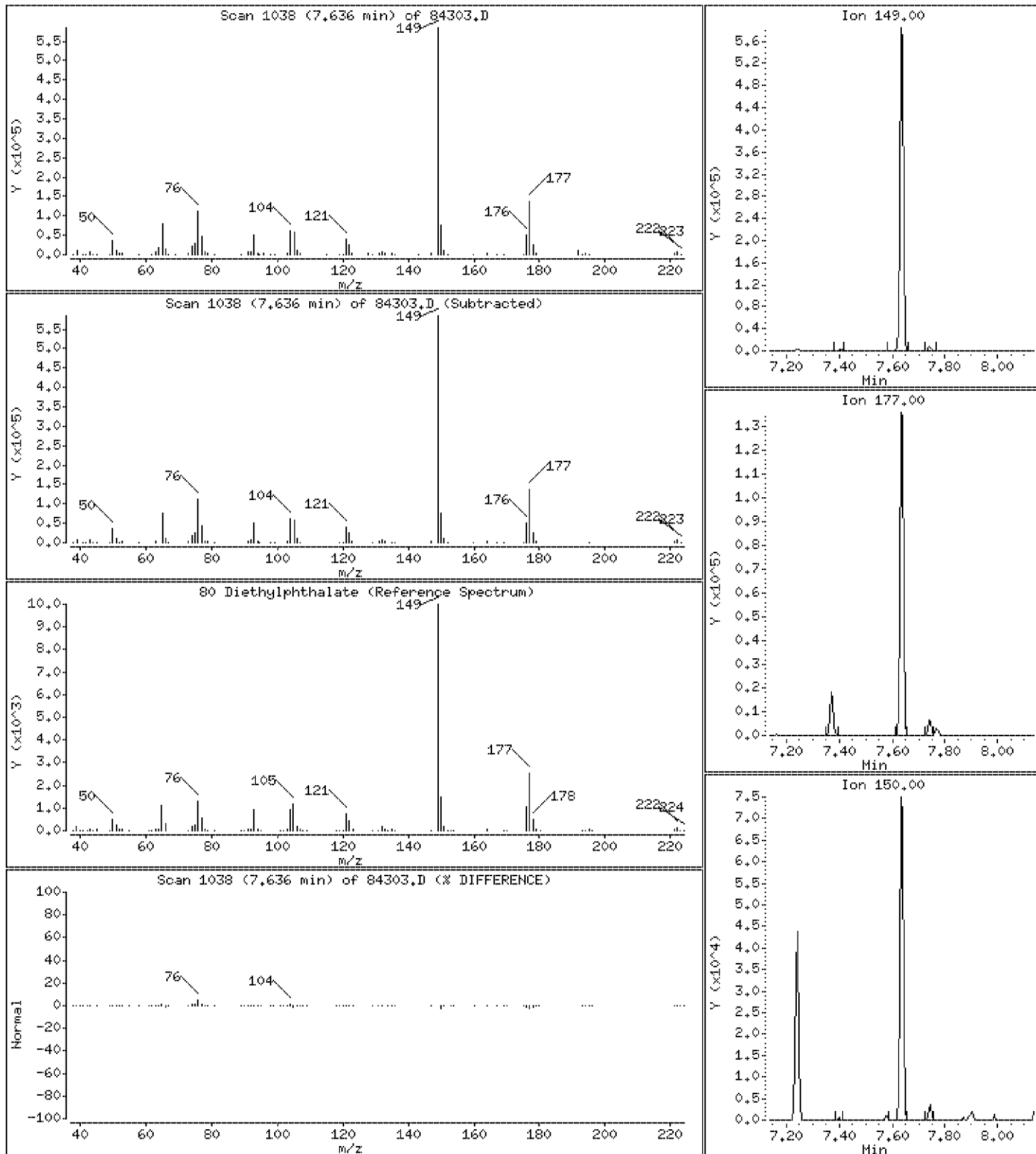
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

80 Diethylphthalate

Concentration: 1330 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

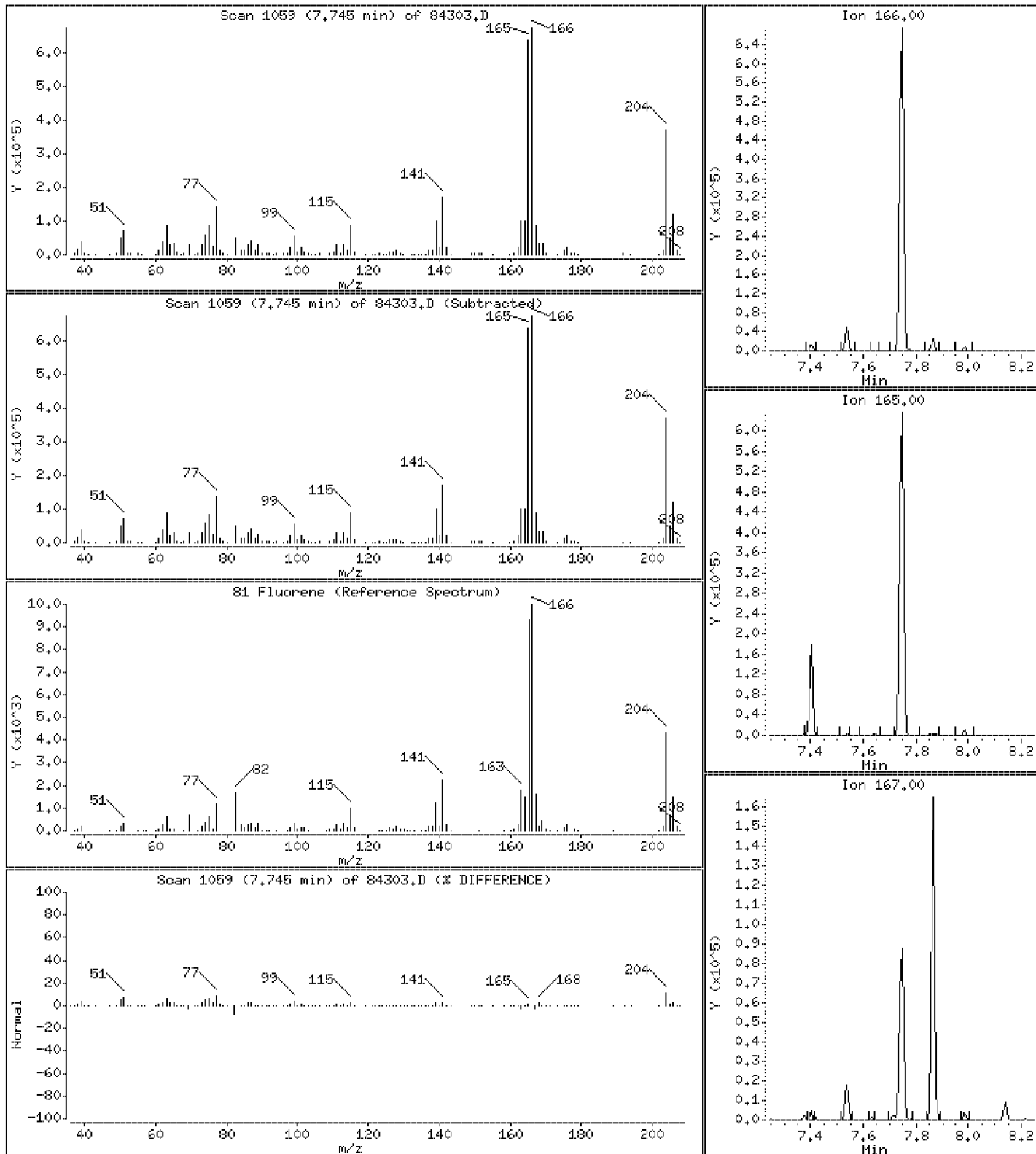
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

81 Fluorene

Concentration: 1180 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

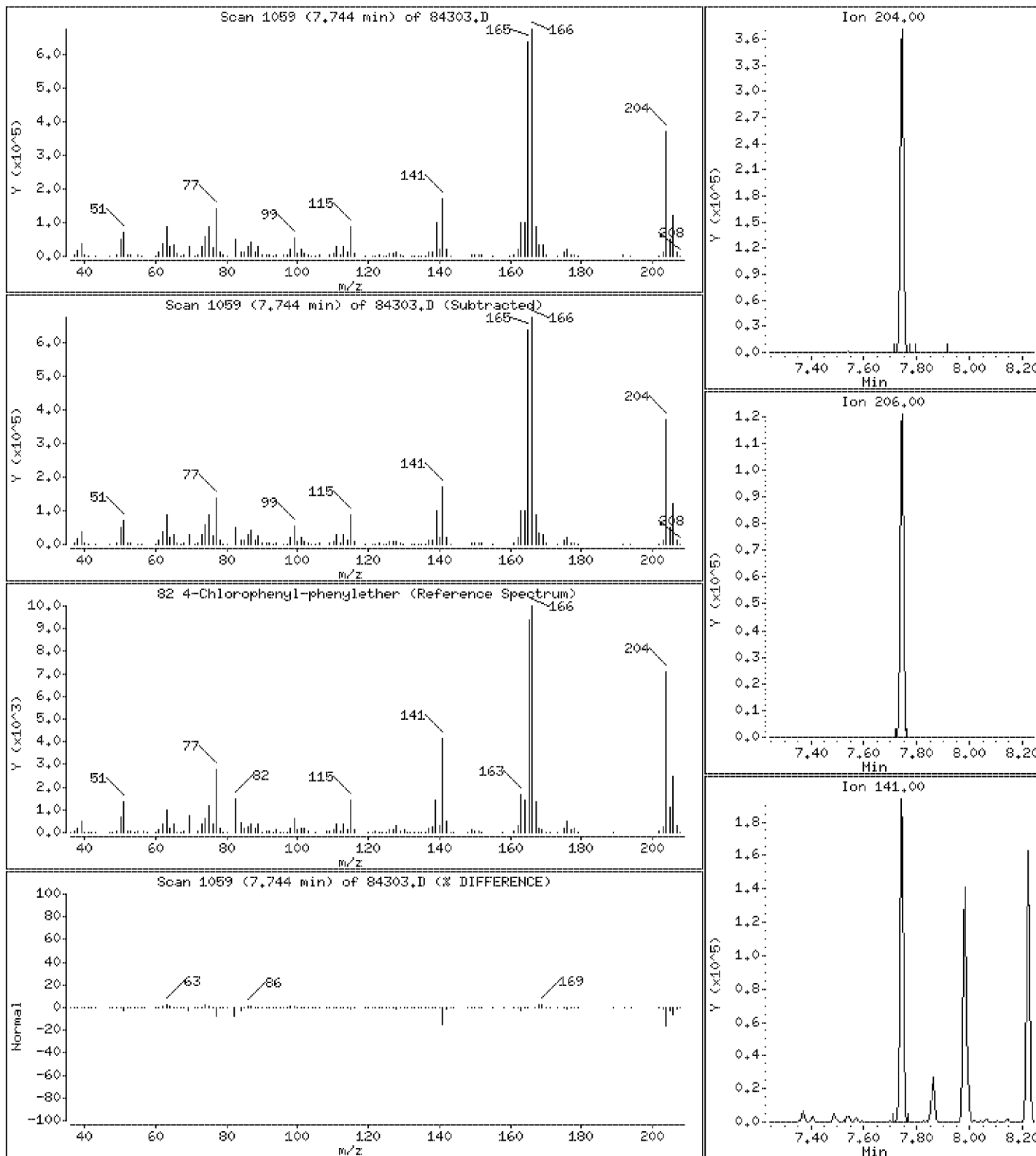
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

82 4-Chlorophenyl-phenylether

Concentration: 1140 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

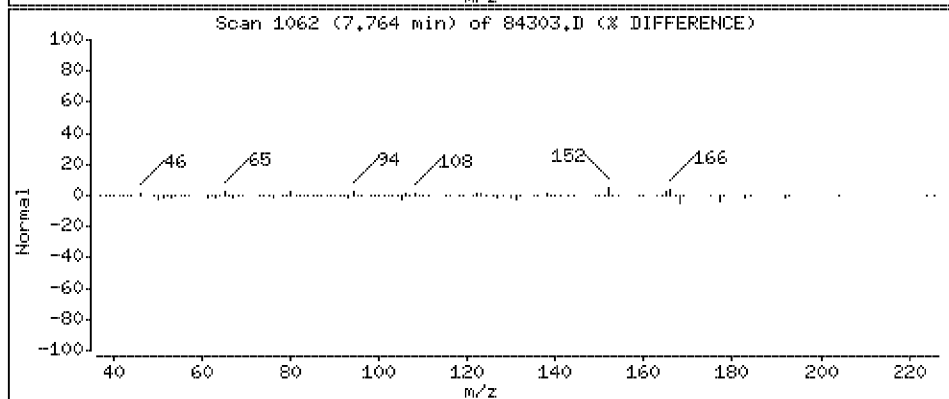
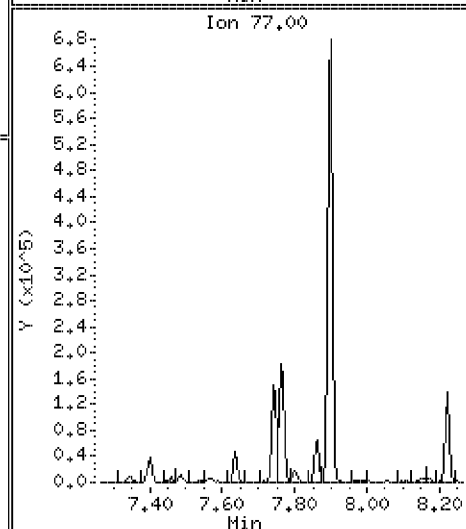
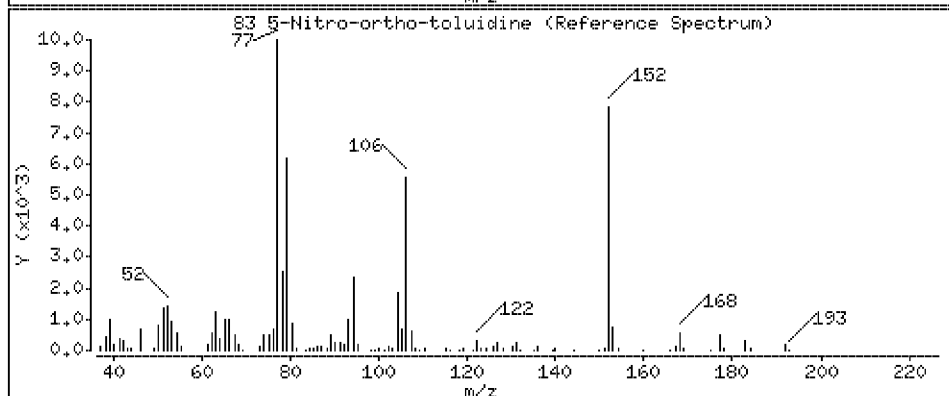
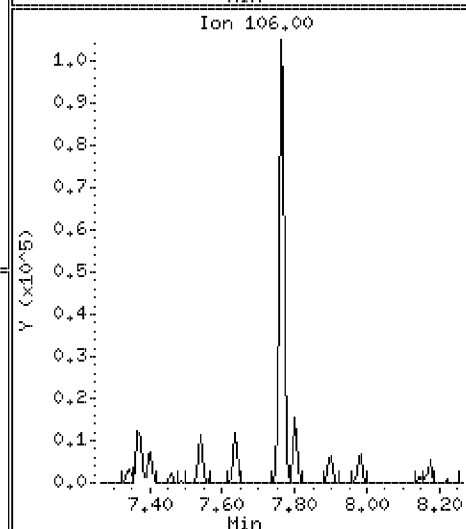
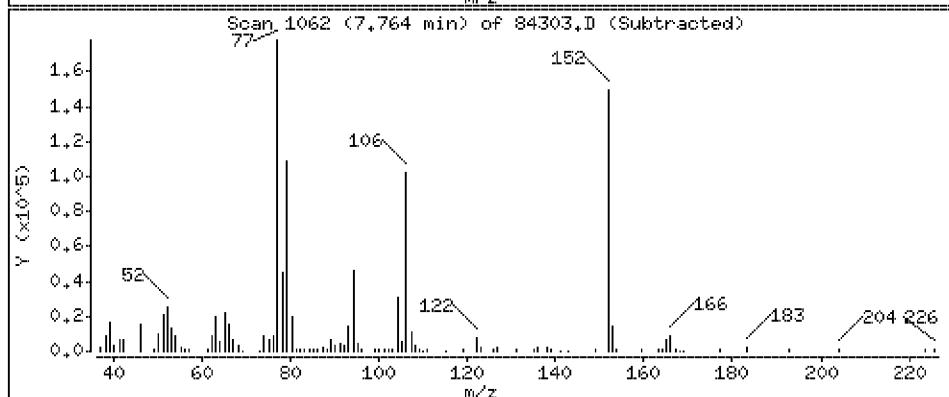
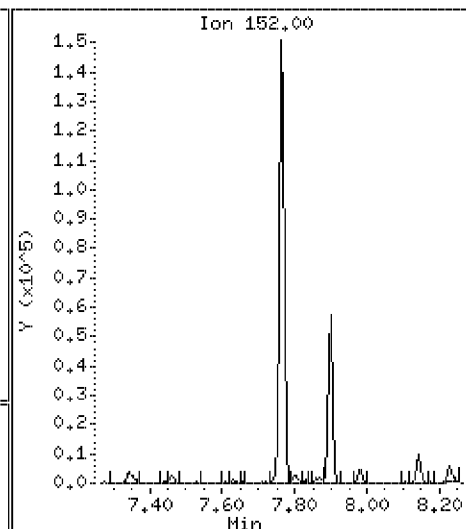
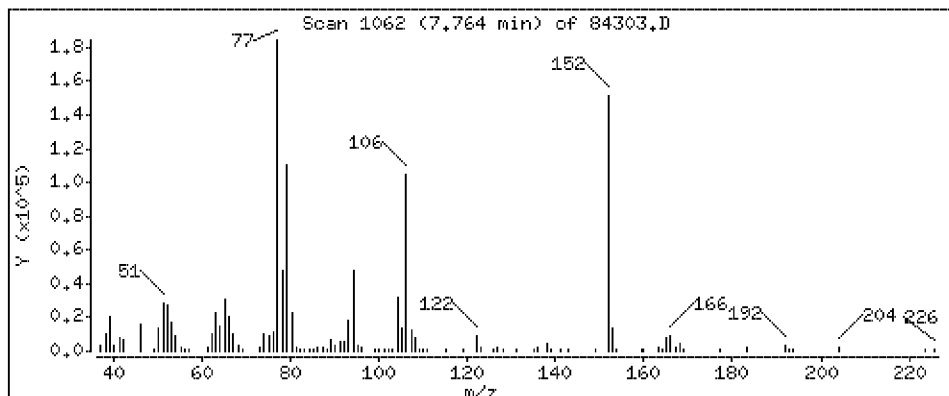
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

83 5-Nitro-ortho-toluidine

Concentration: 1240 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

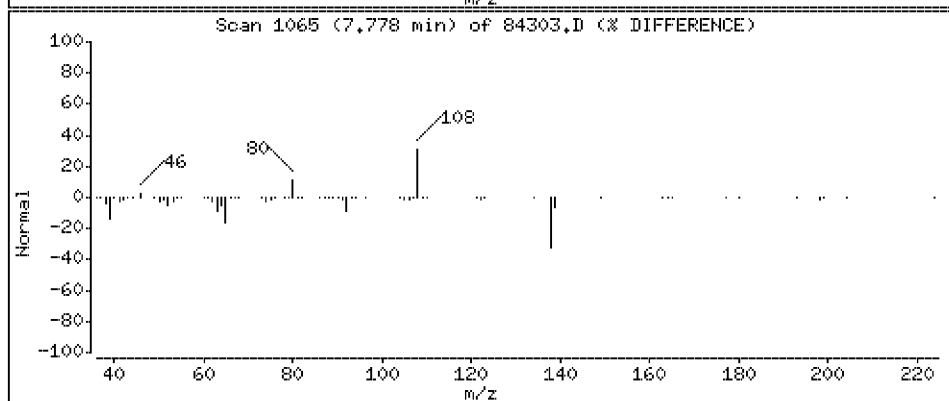
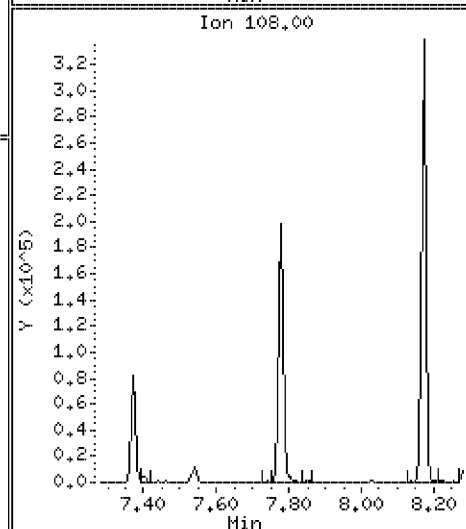
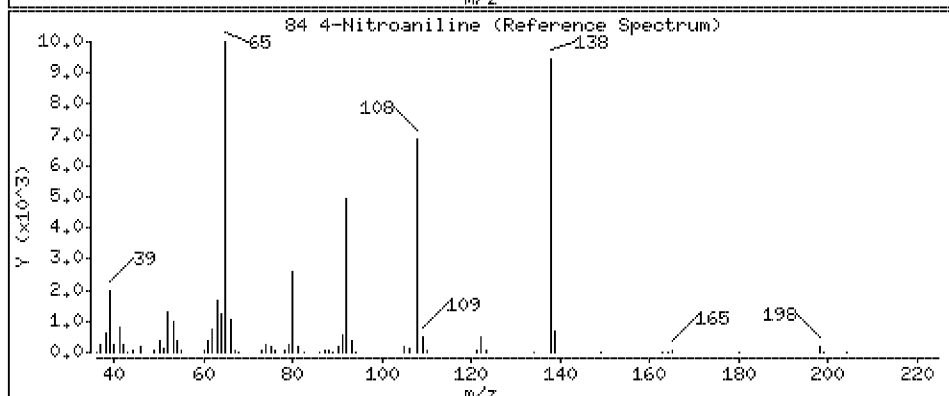
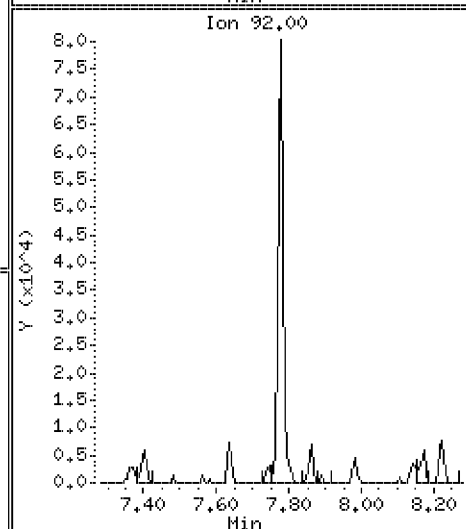
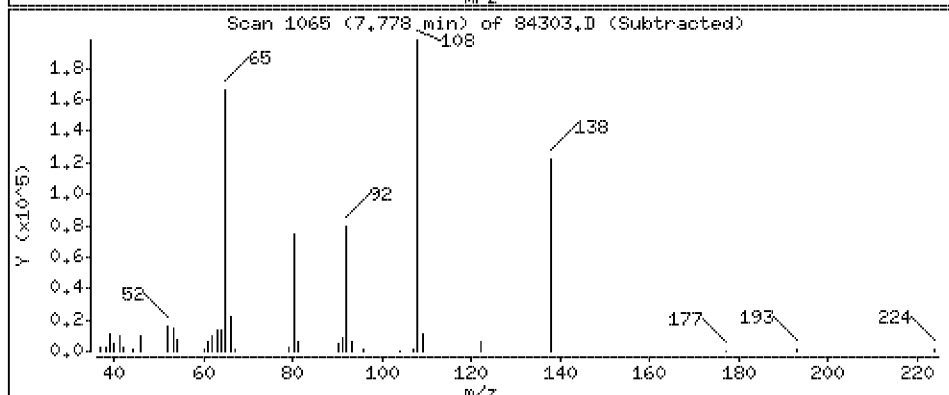
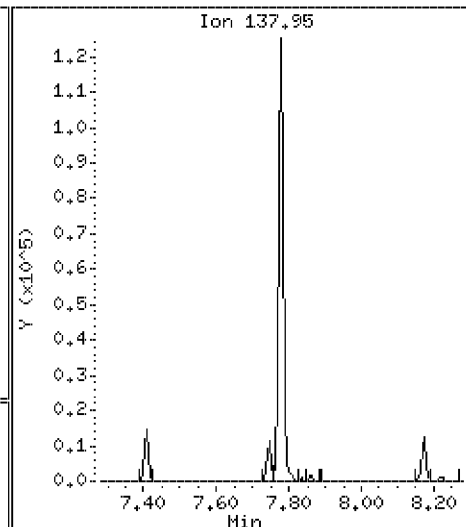
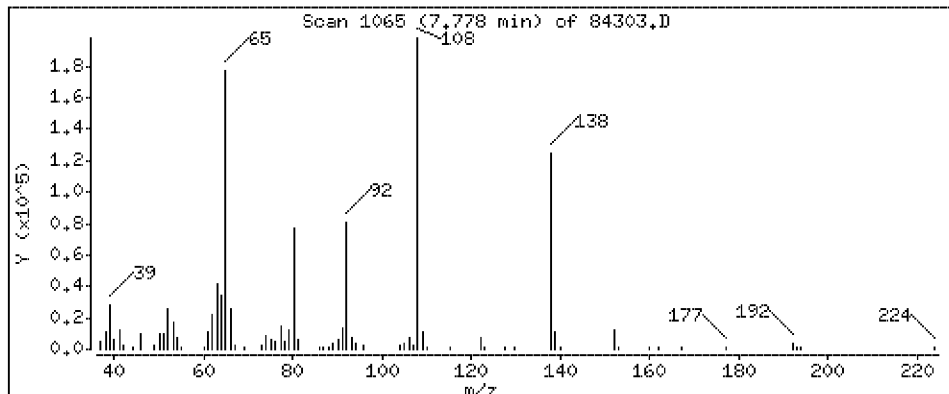
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

84 4-Nitroaniline

Concentration: 1540 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

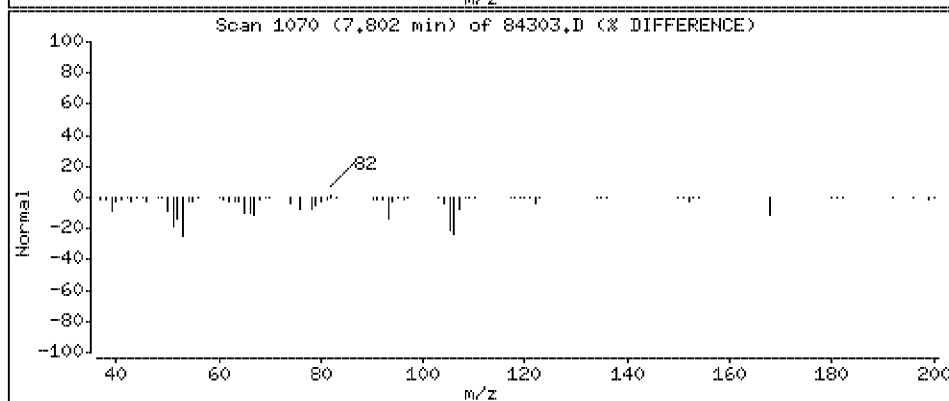
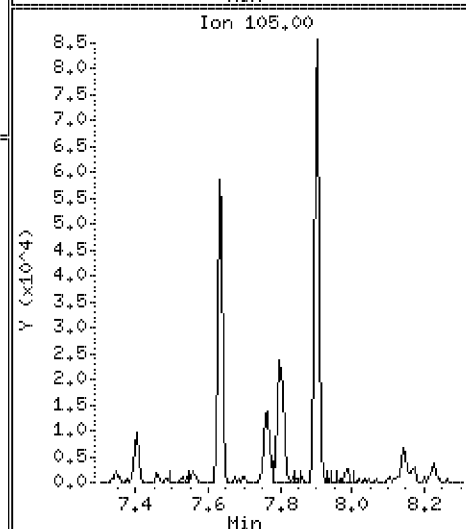
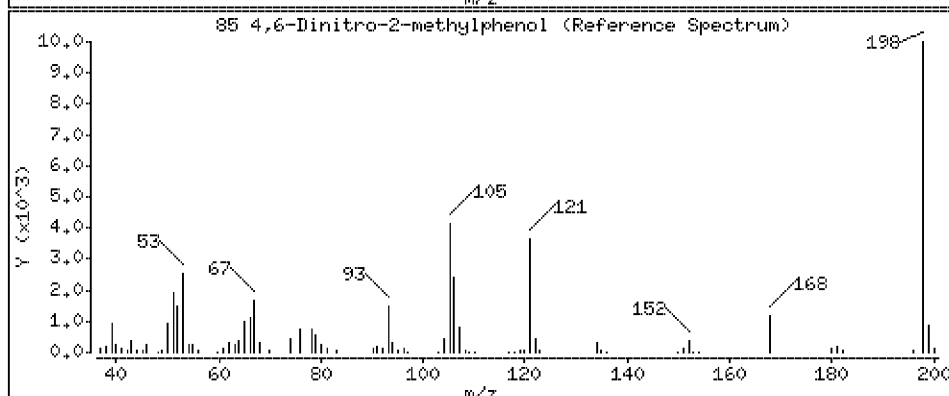
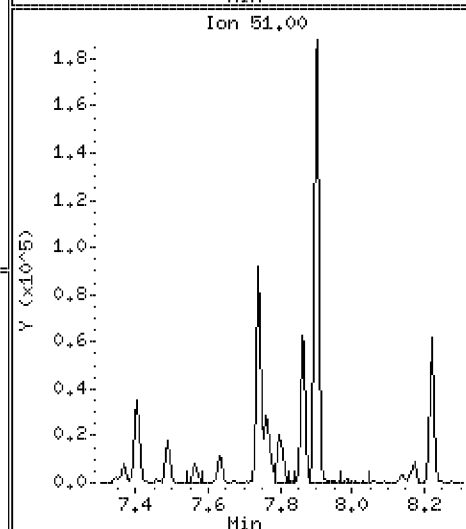
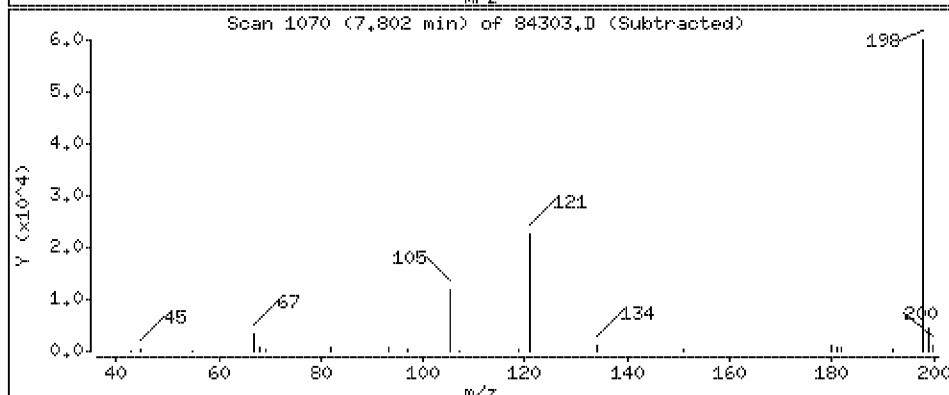
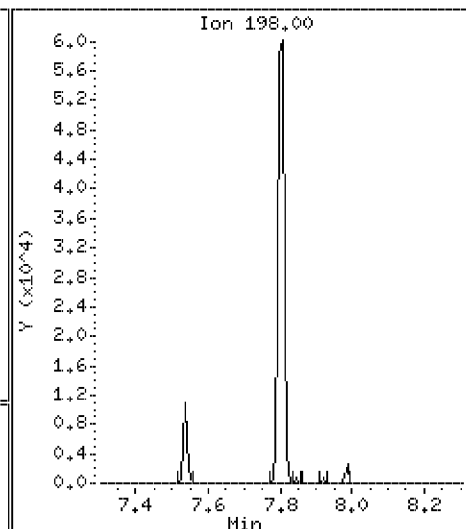
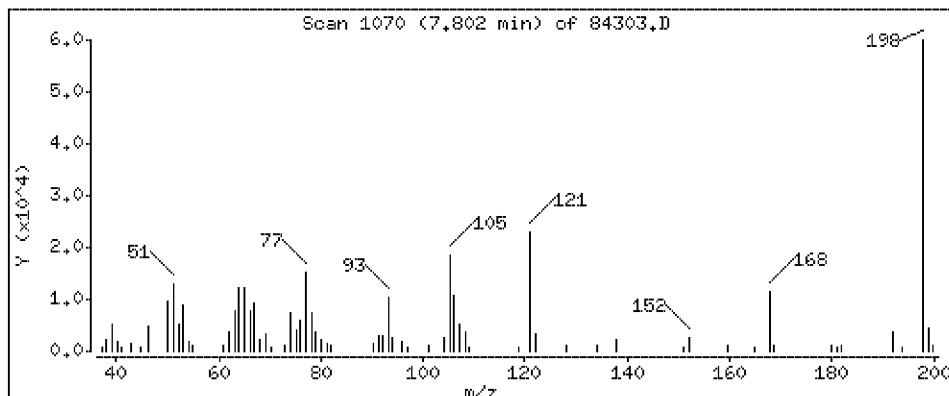
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

85 4,6-Dinitro-2-methylphenol

Concentration: 670 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

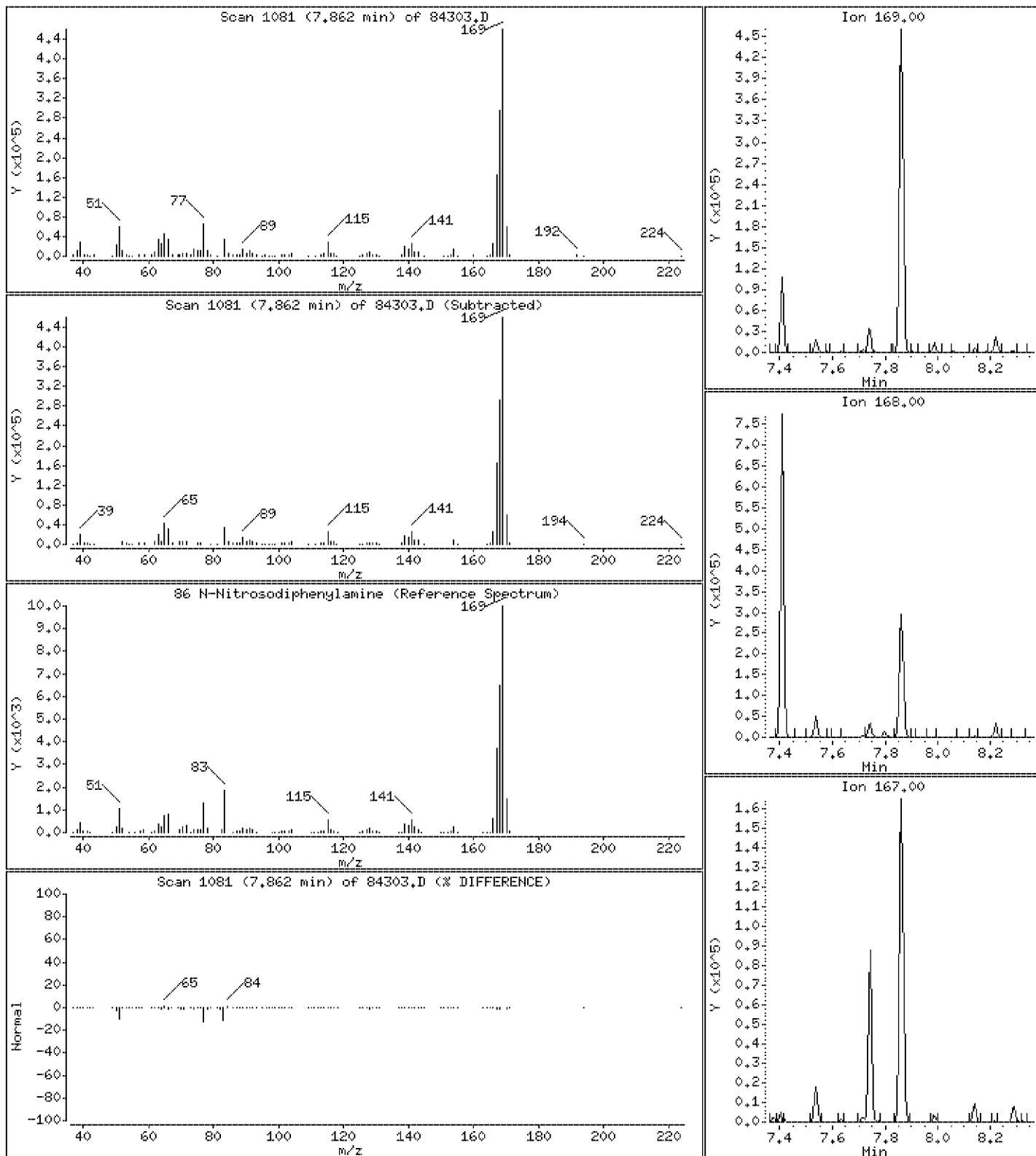
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

86 N-Nitrosodiphenylamine

Concentration: 1180 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

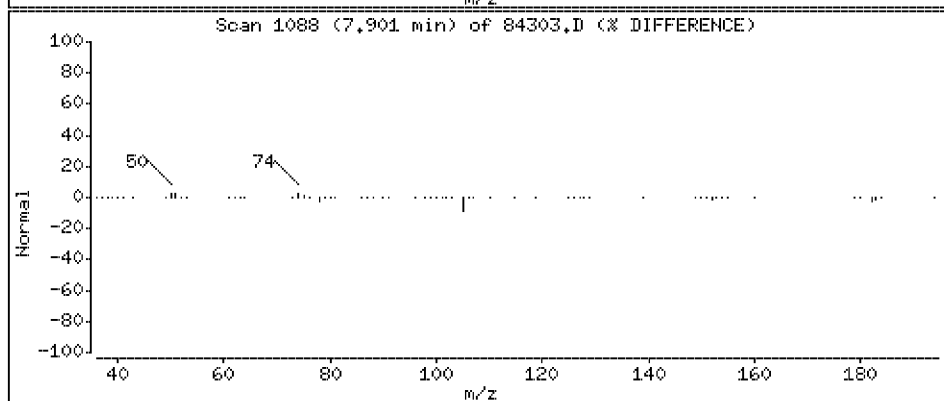
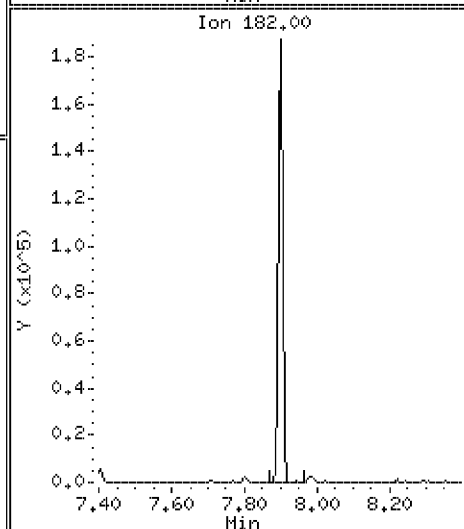
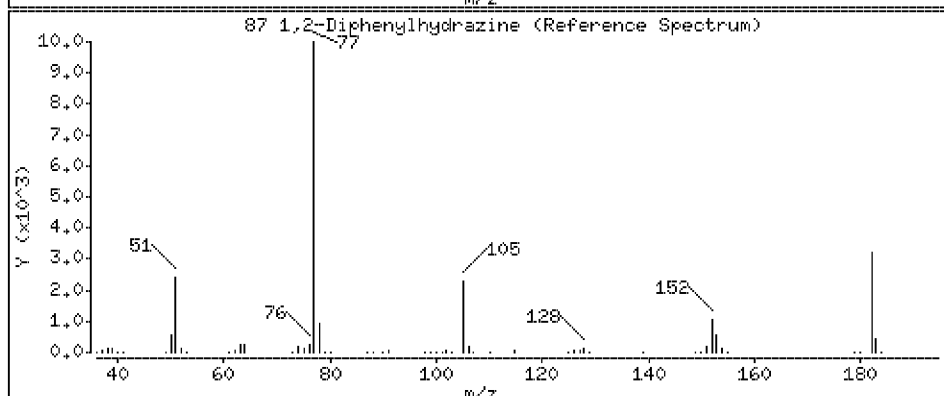
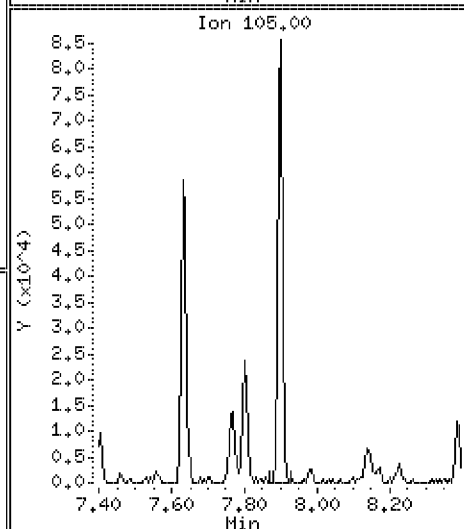
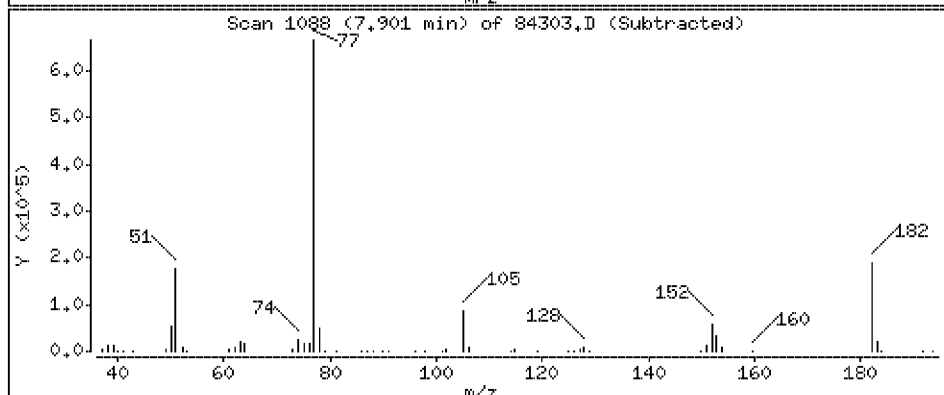
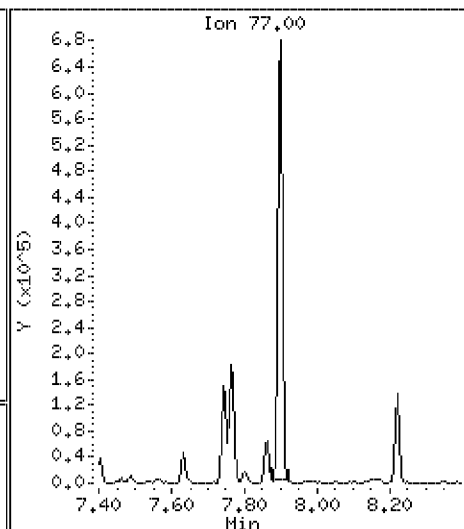
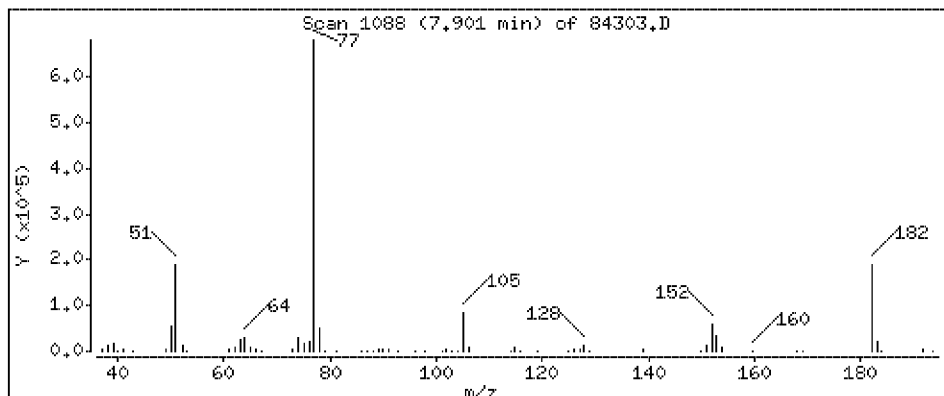
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

87 1,2-Diphenylhydrazine

Concentration: 1300 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

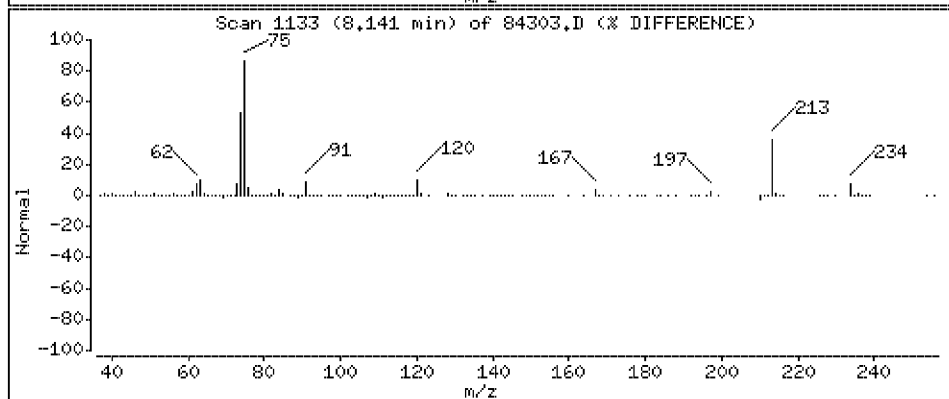
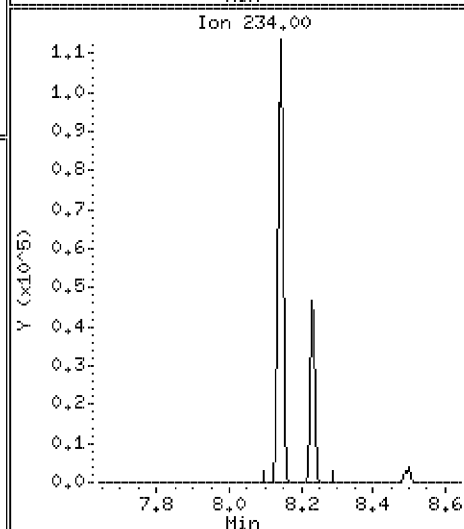
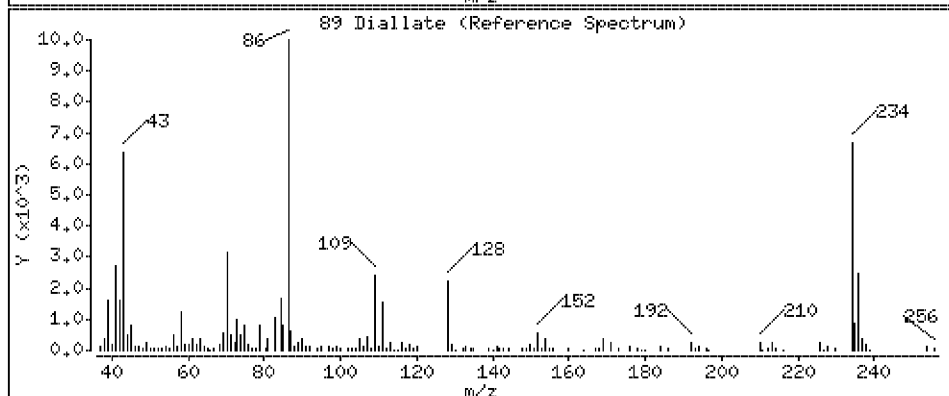
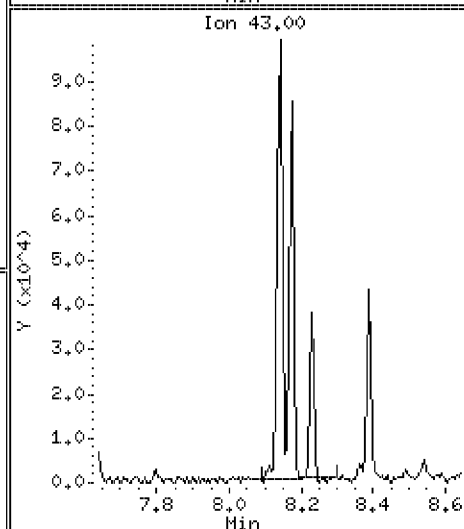
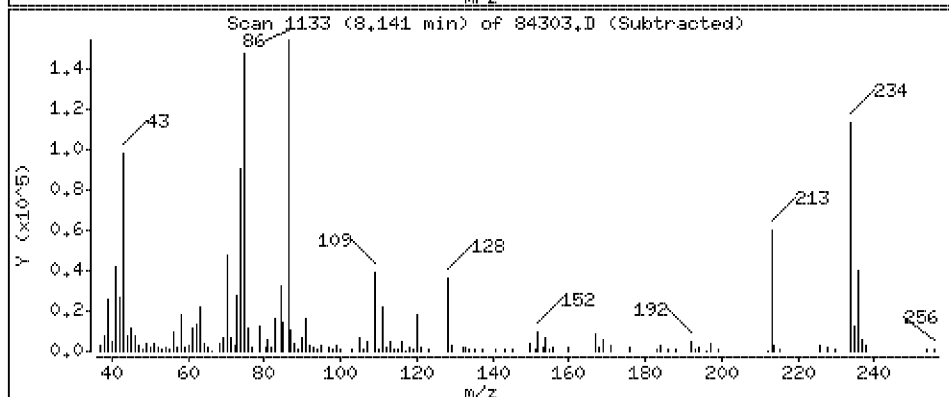
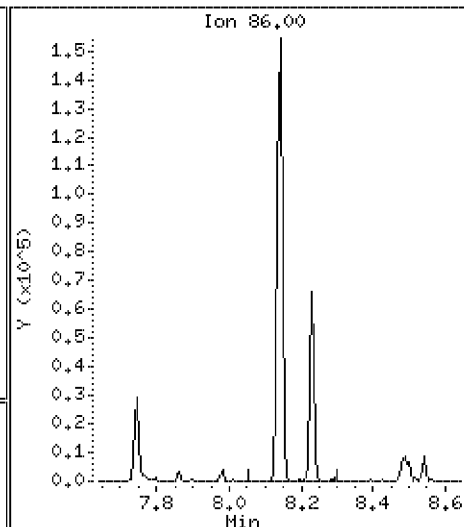
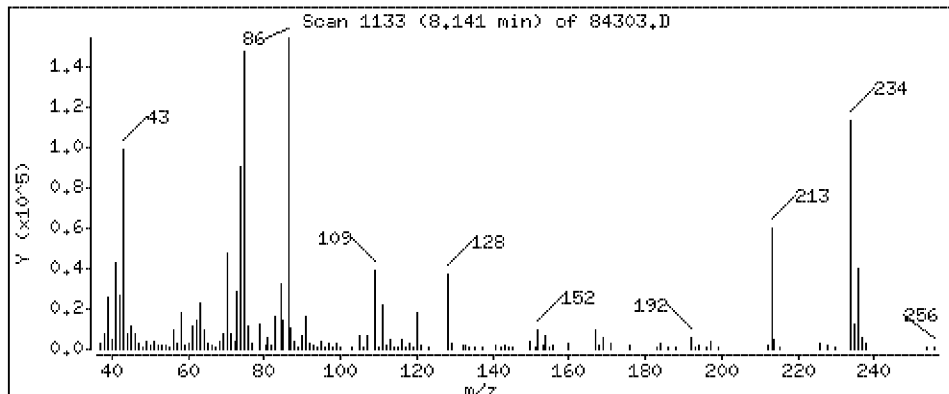
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

89 Diallate

Concentration: 1120 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

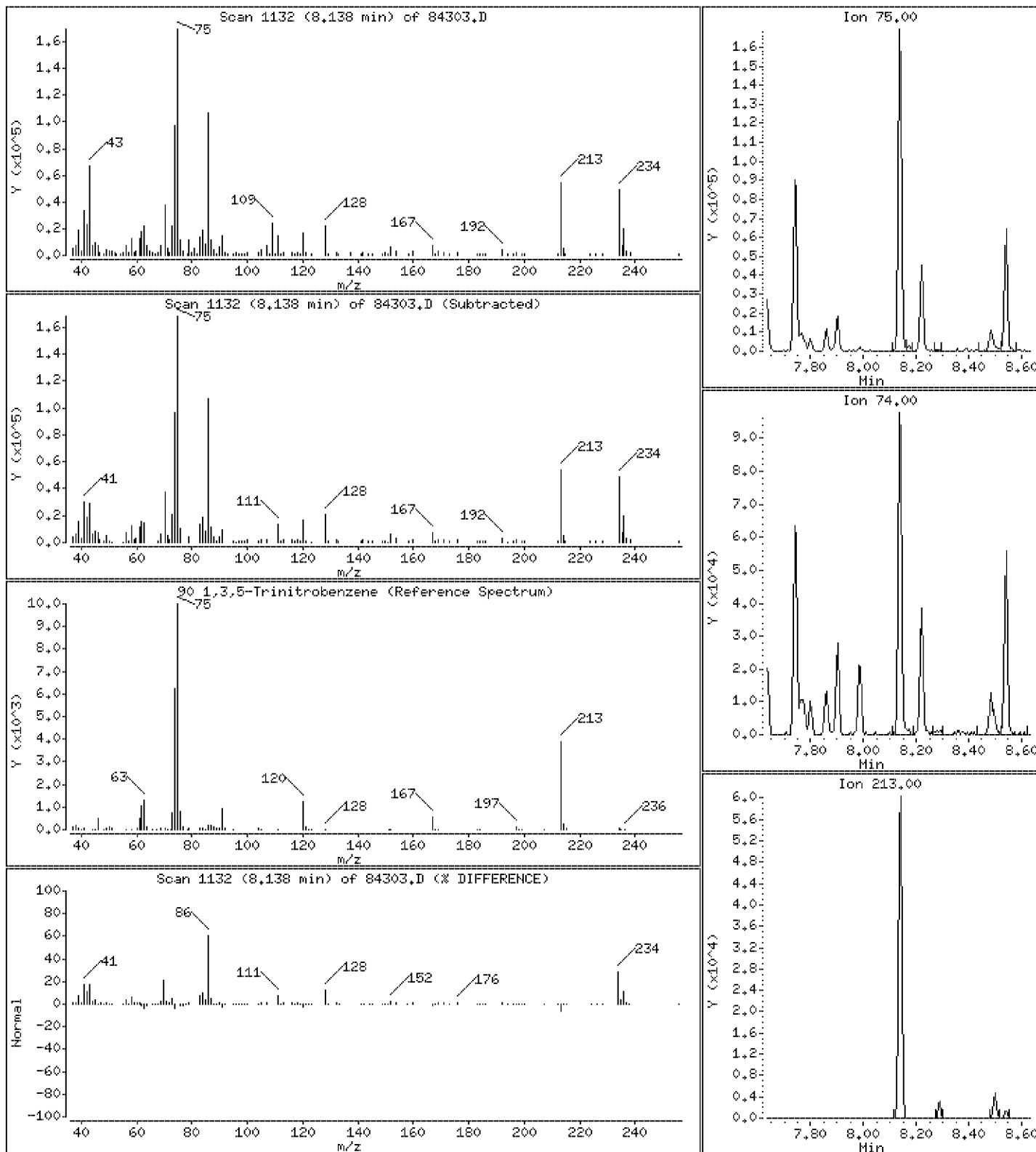
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

90 1,3,5-Trinitrobenzene

Concentration: 636 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

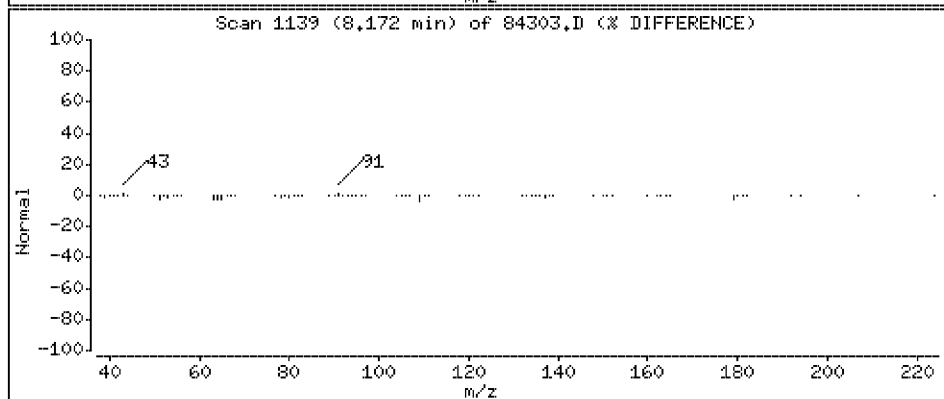
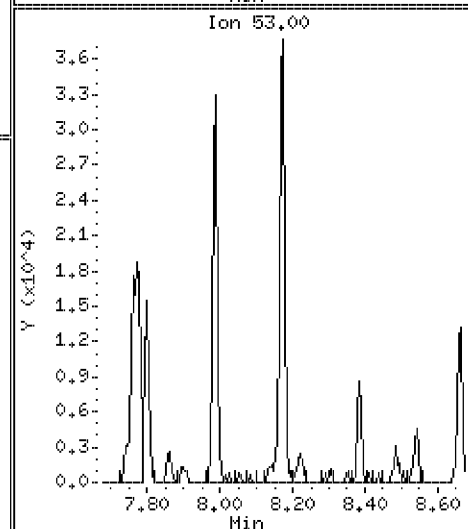
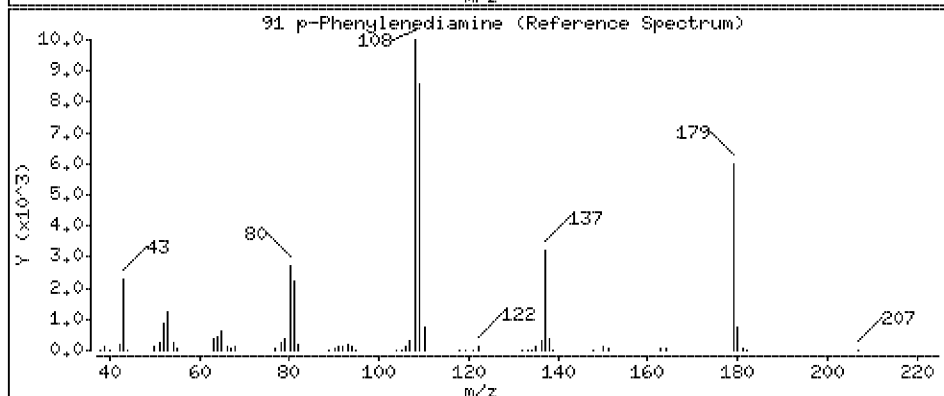
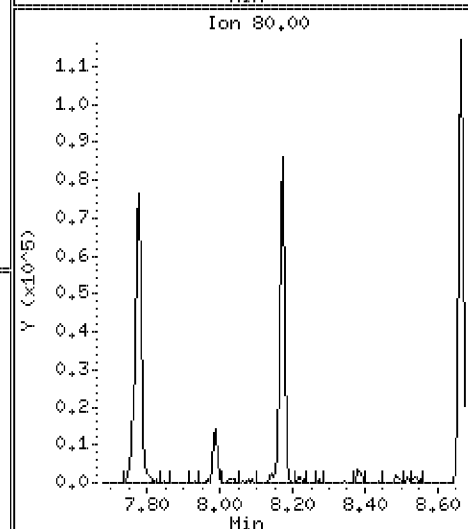
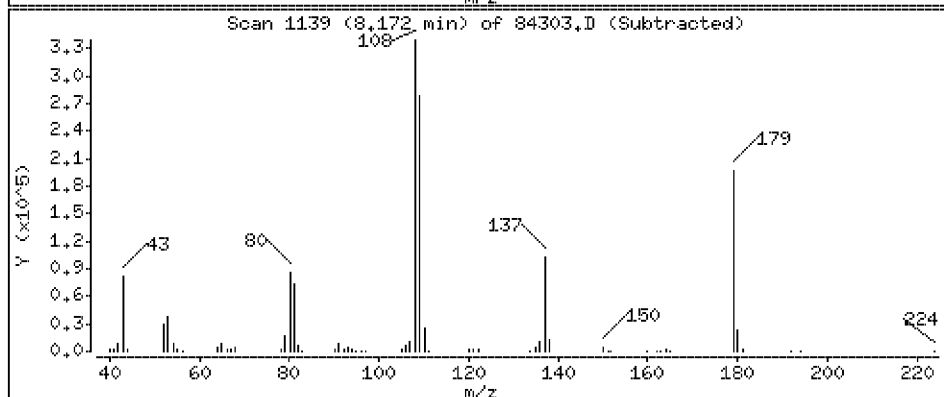
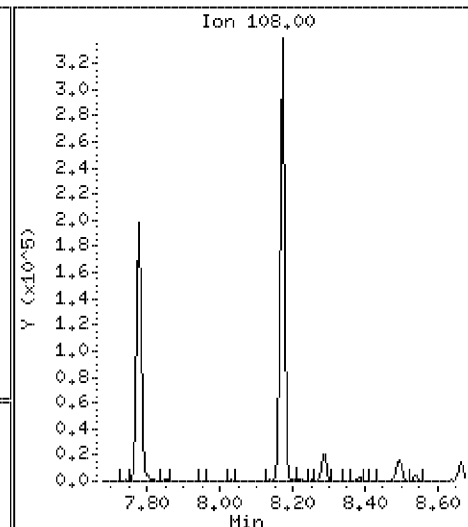
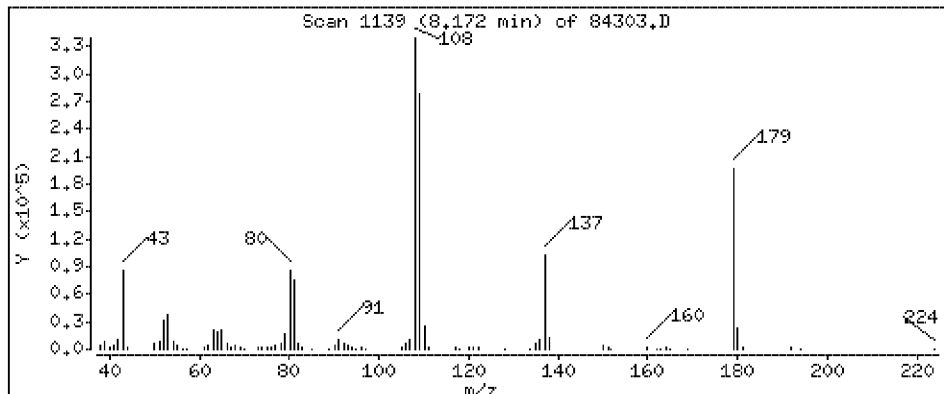
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

91 p-Phenylenediamine

Concentration: 1450 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

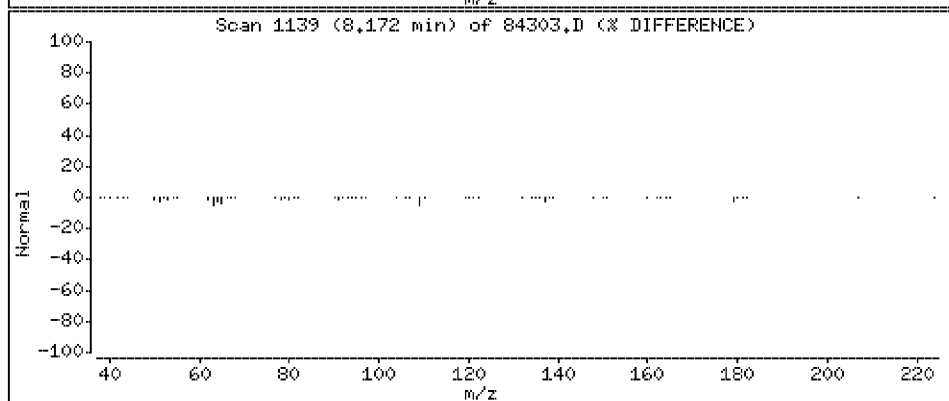
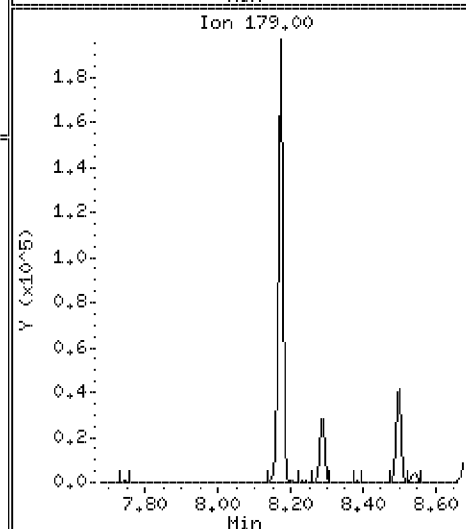
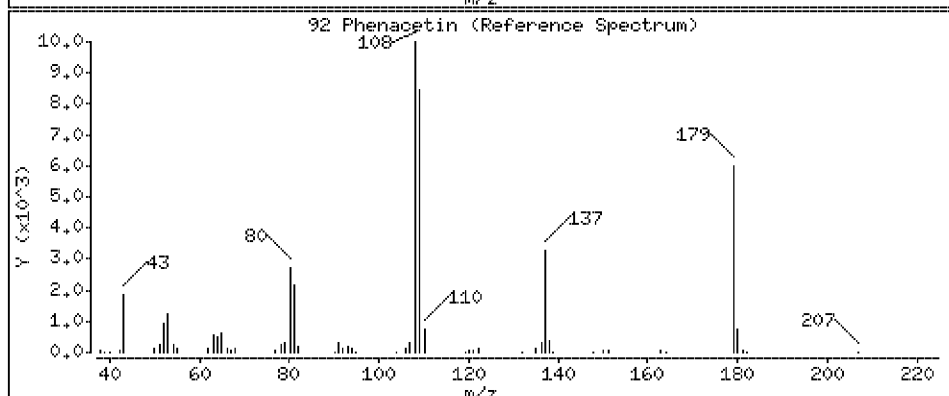
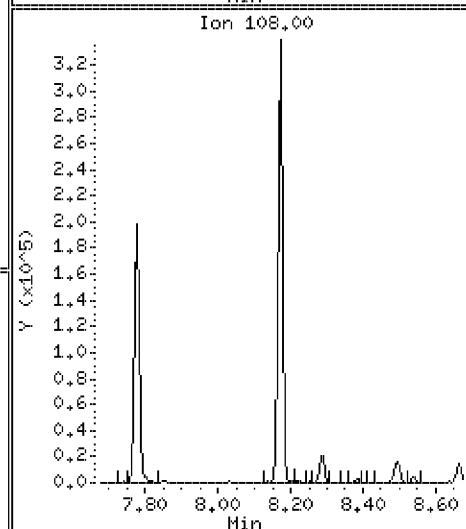
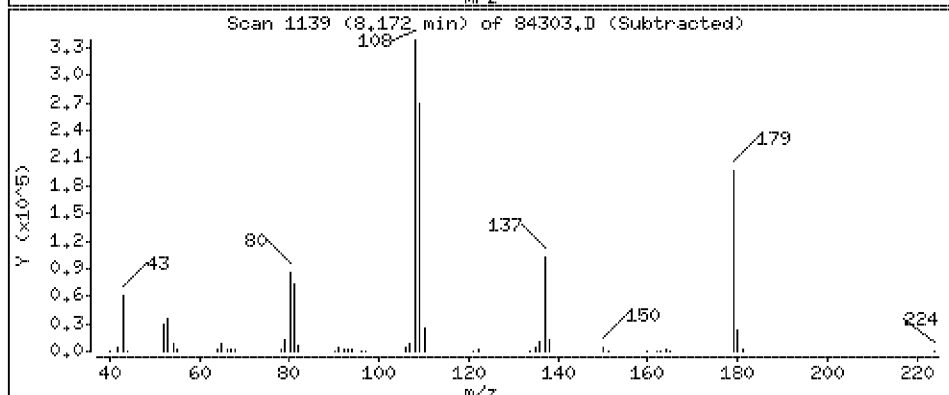
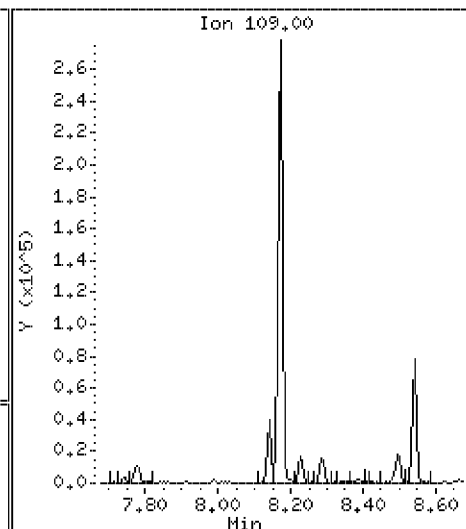
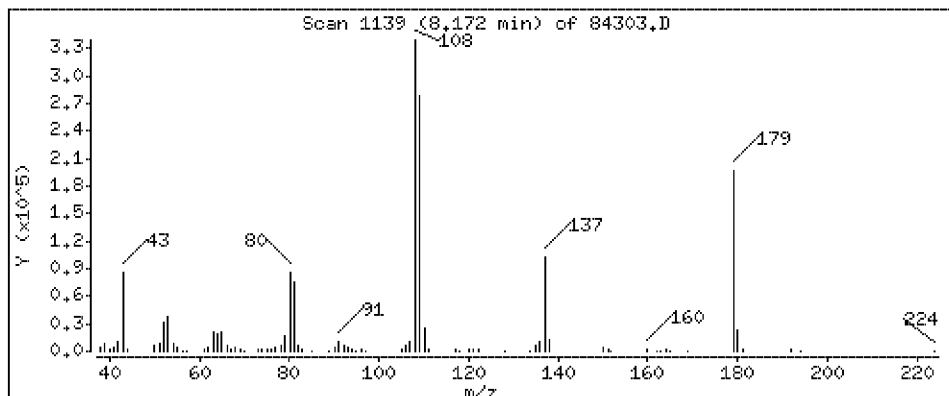
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

92 Phenacetin

Concentration: 1340 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

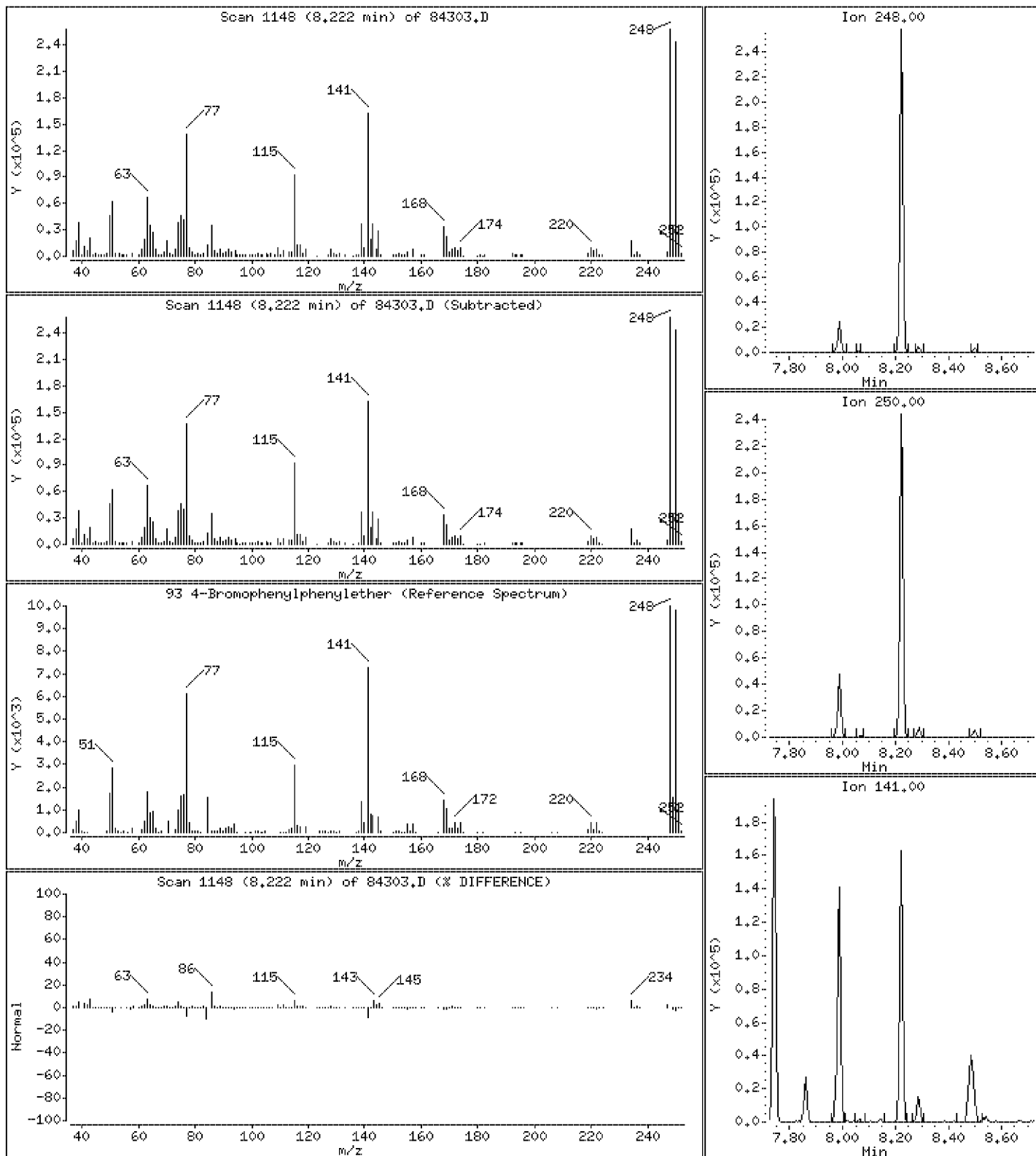
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

93 4-Bromophenylphenylether

Concentration: 1090 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

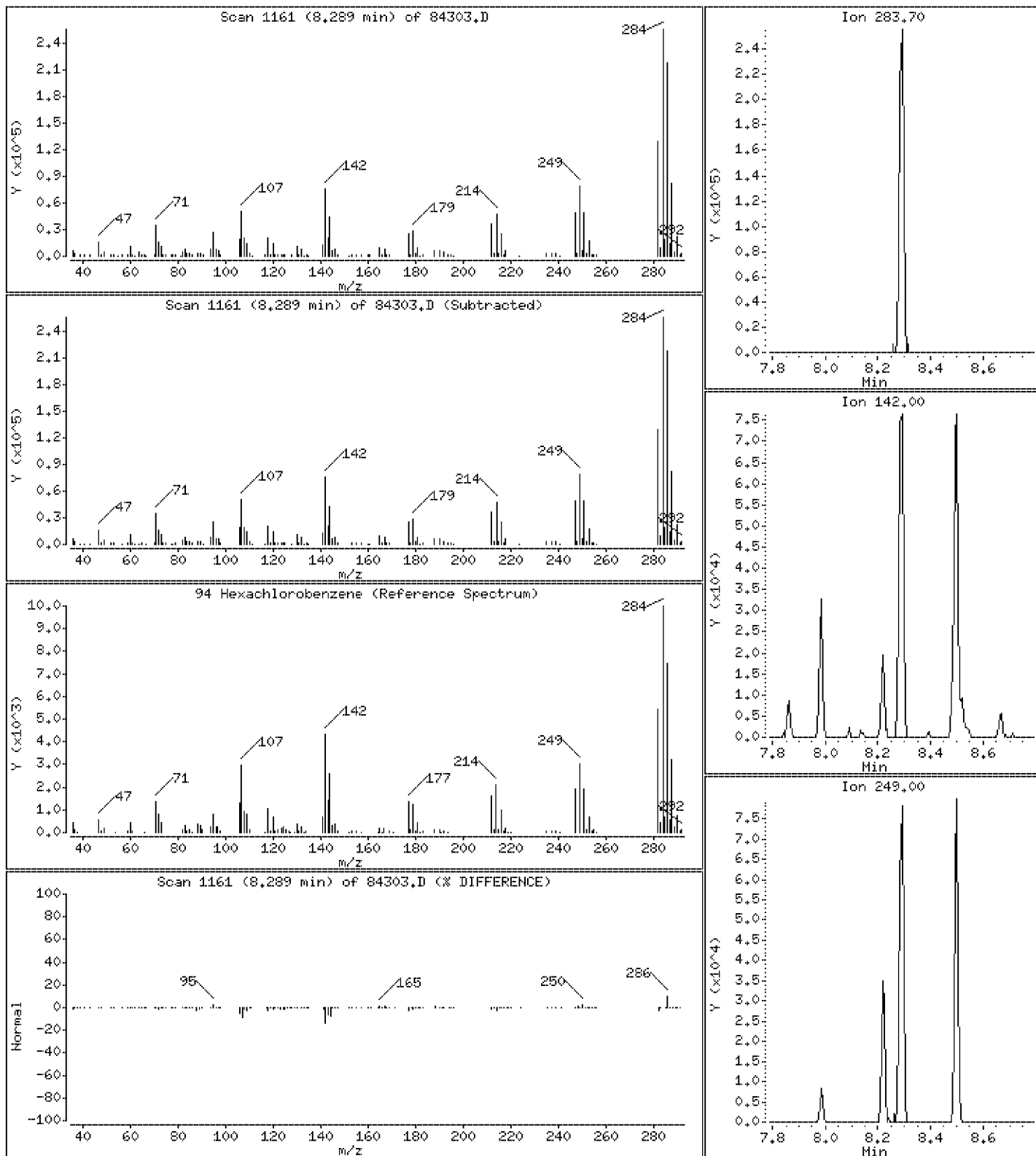
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

94 Hexachlorobenzene

Concentration: 1040 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

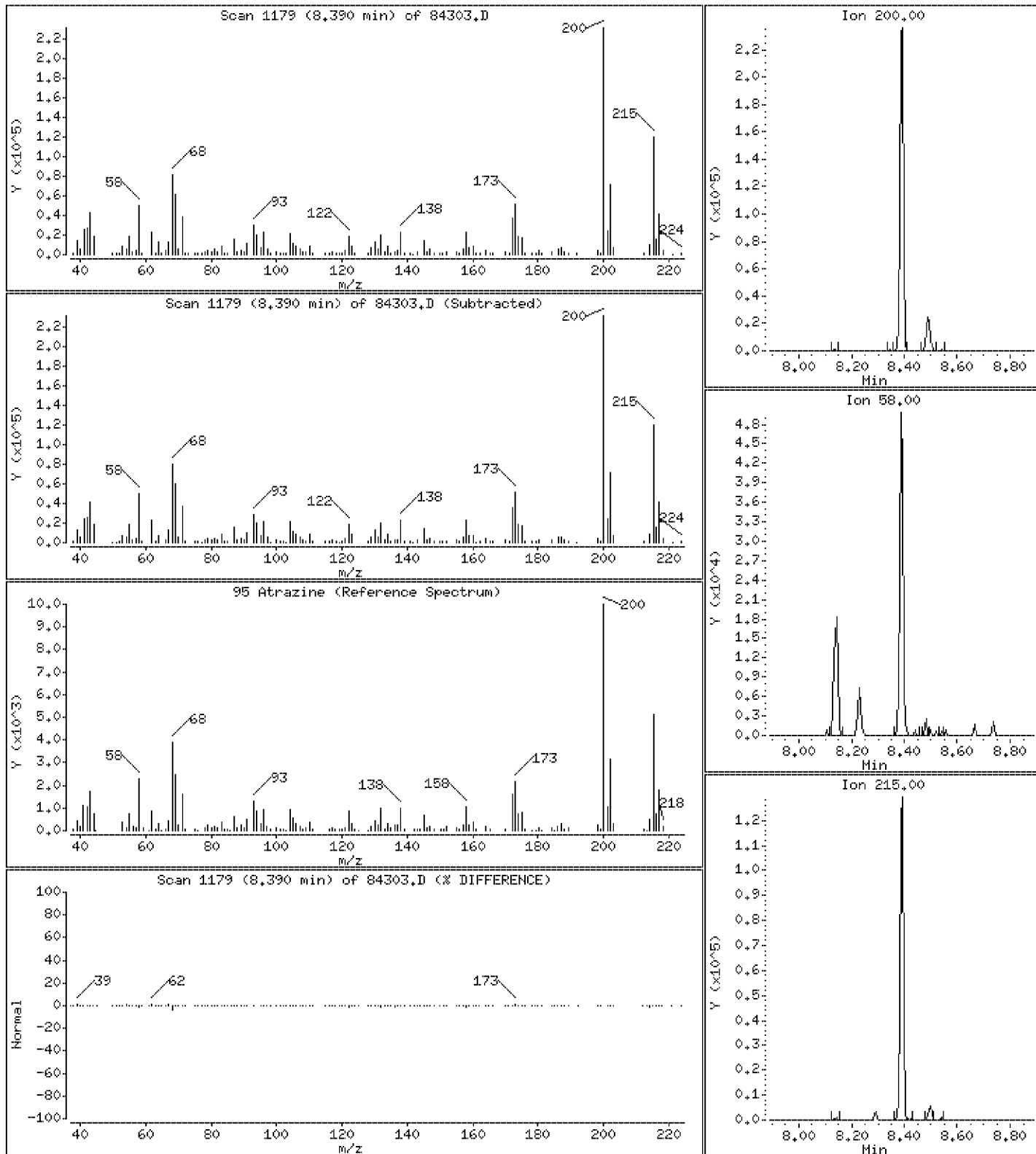
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

95 Atrazine

Concentration: 1220 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

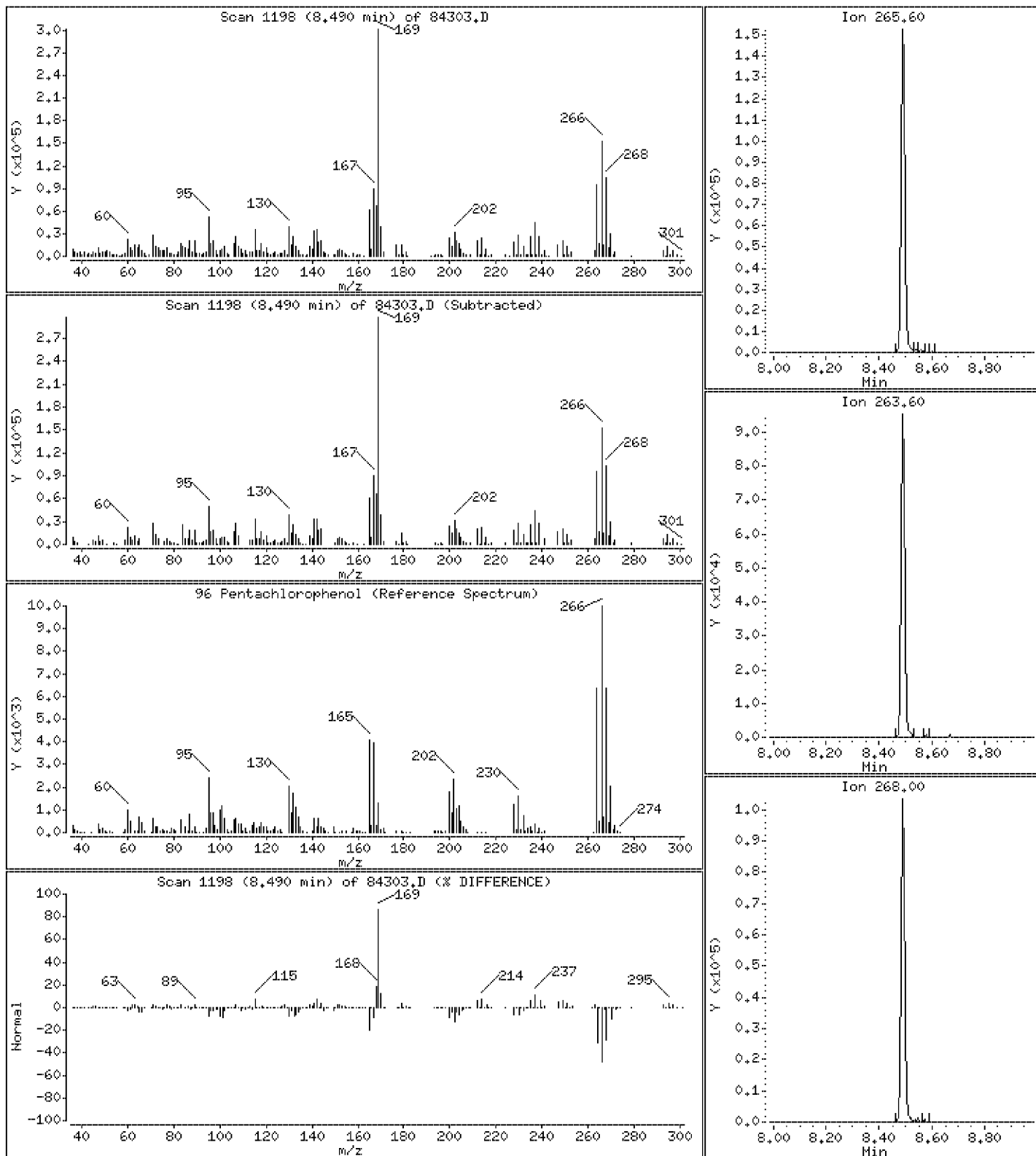
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

96 Pentachlorophenol

Concentration: 1170 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

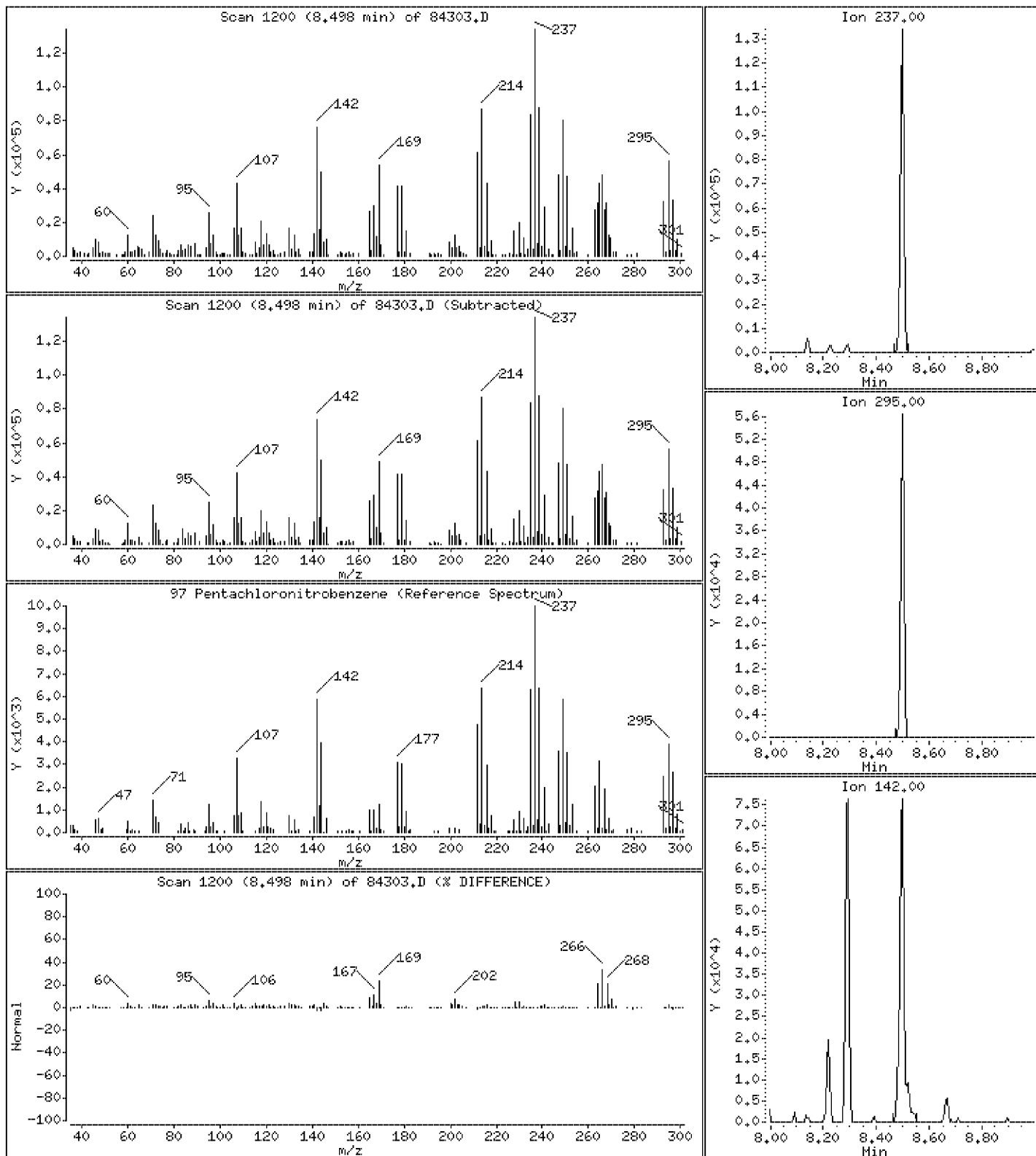
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

97 Pentachloronitrobenzene

Concentration: 1290 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

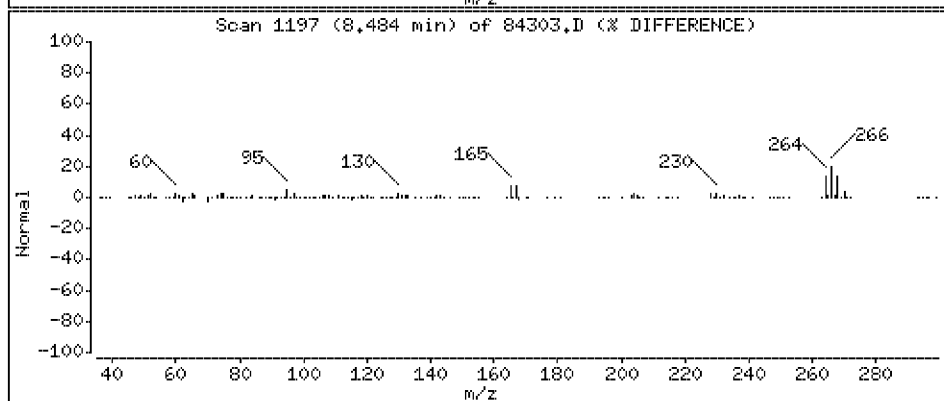
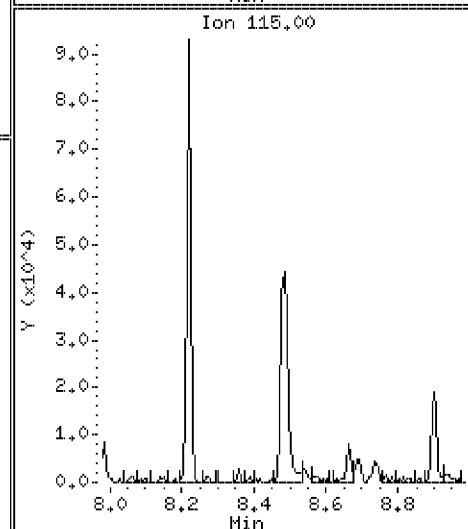
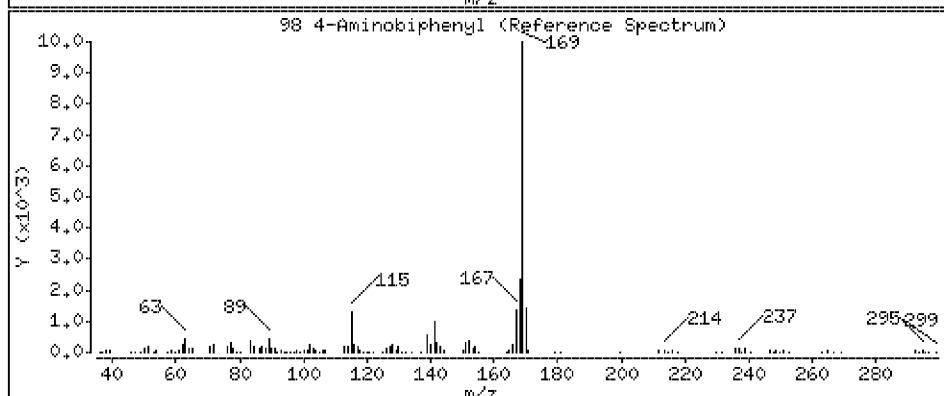
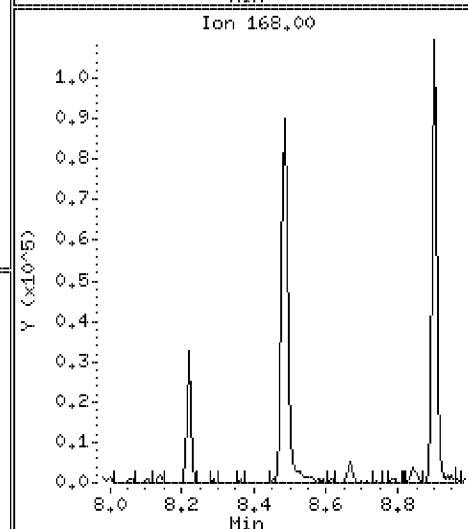
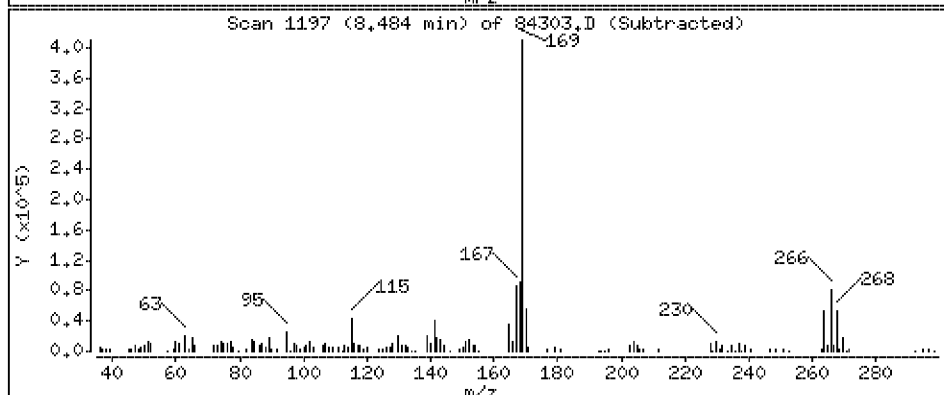
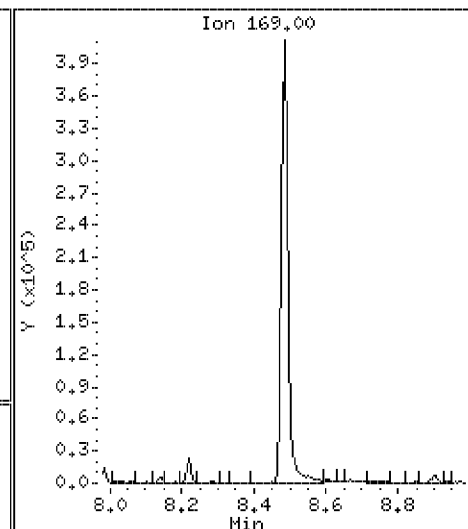
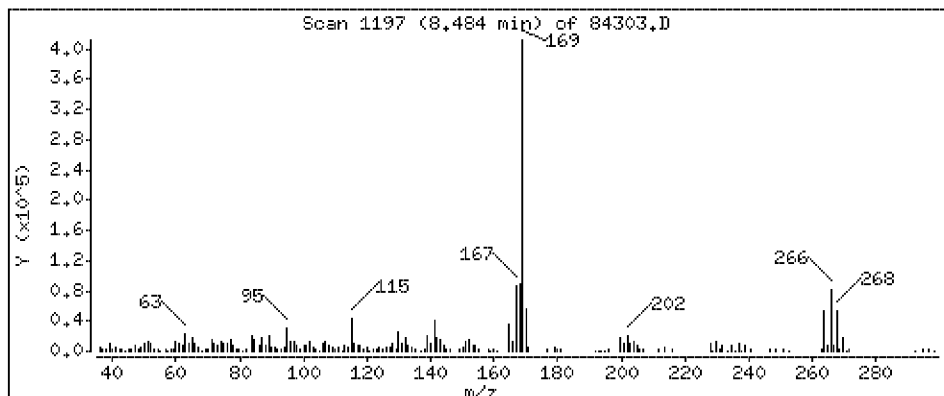
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

98 4-Aminobiphenyl

Concentration: 985 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

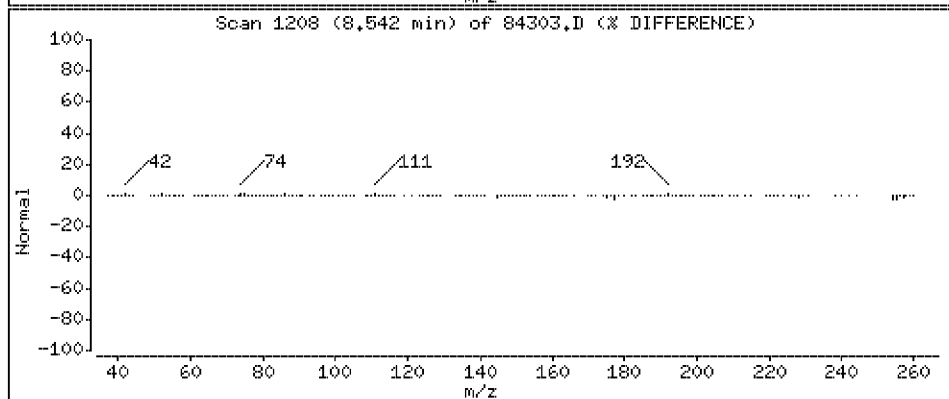
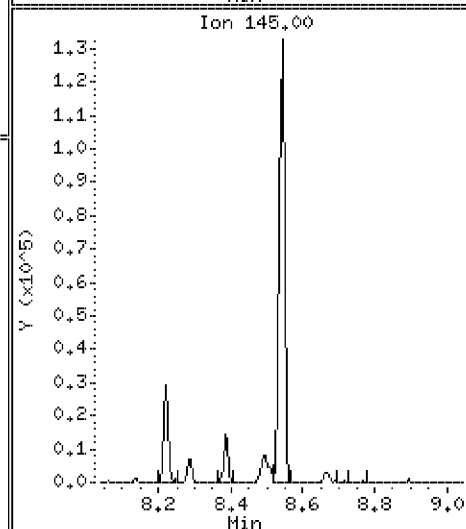
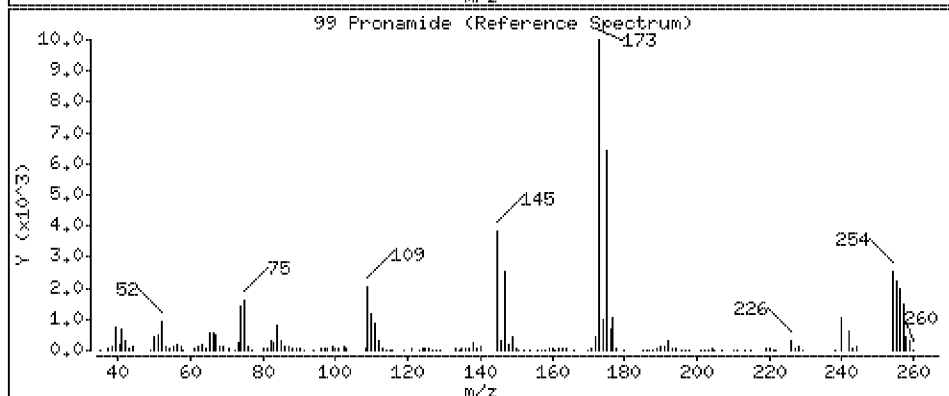
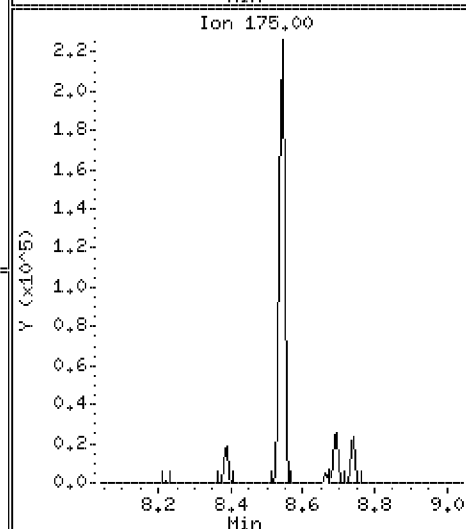
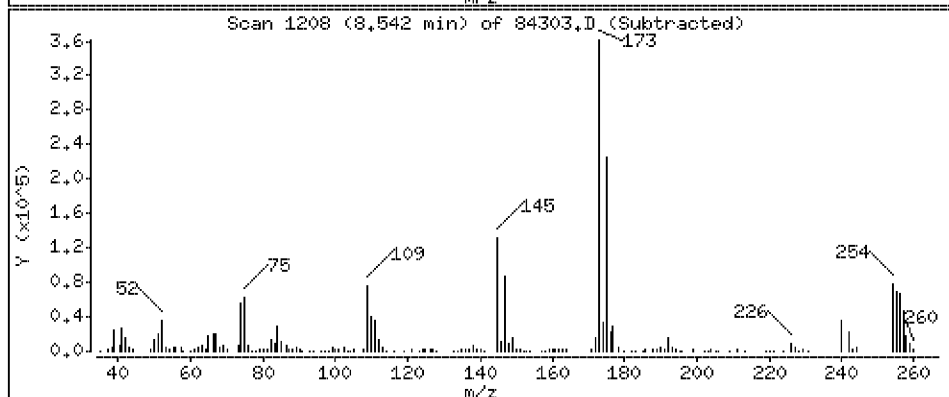
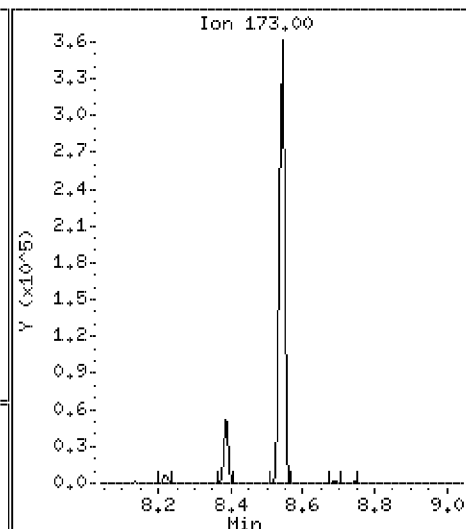
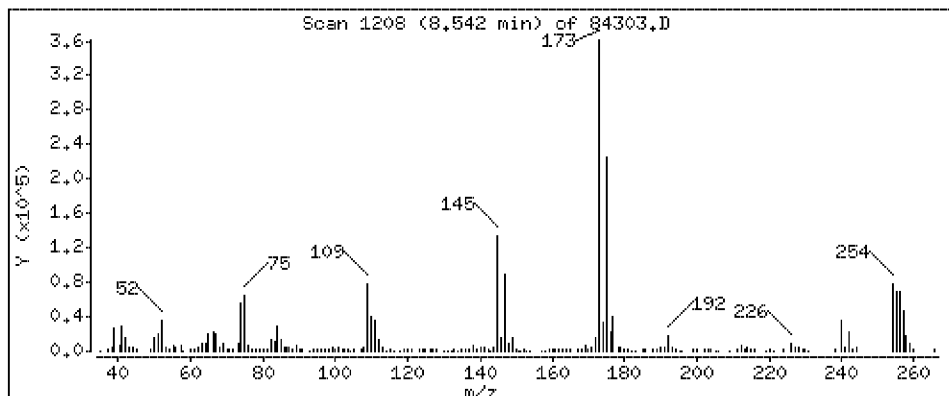
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

99 Pronamide

Concentration: 1240 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

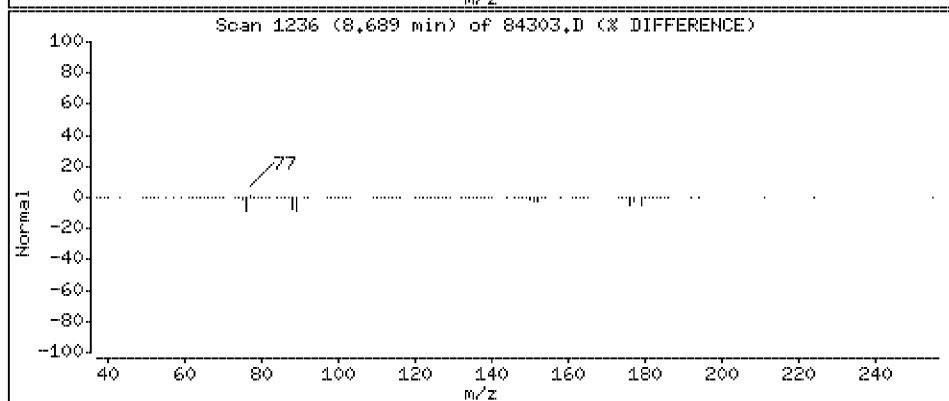
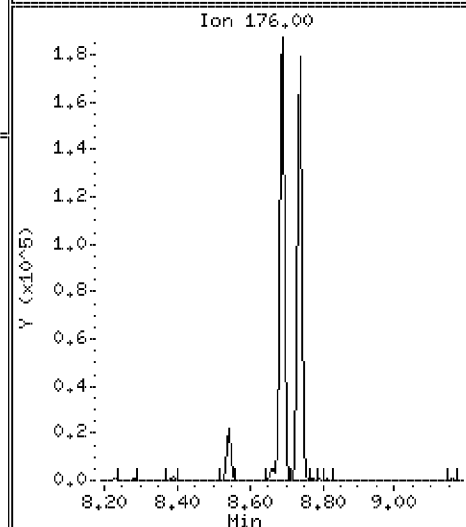
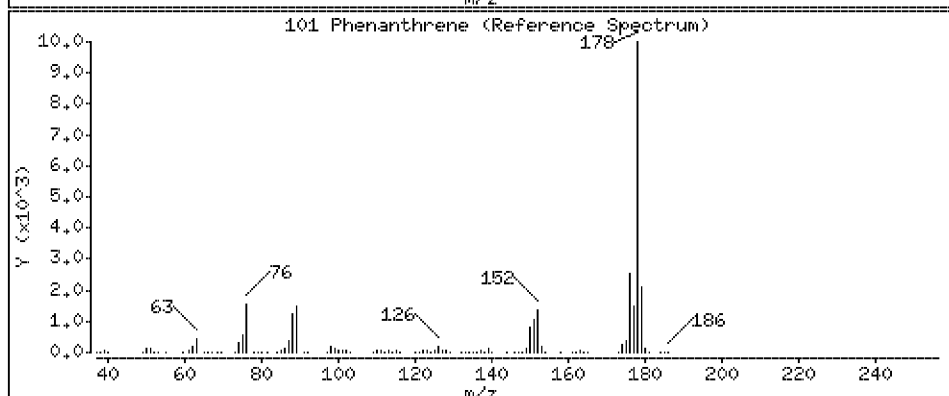
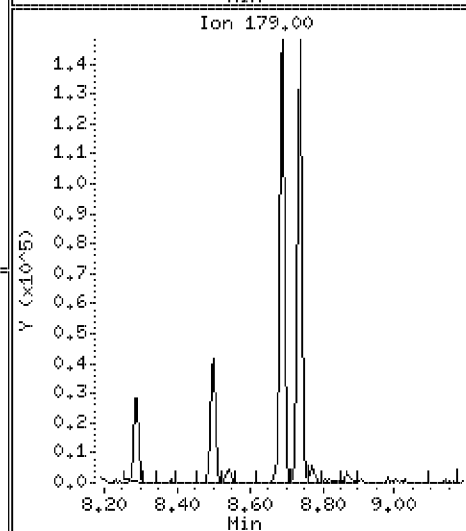
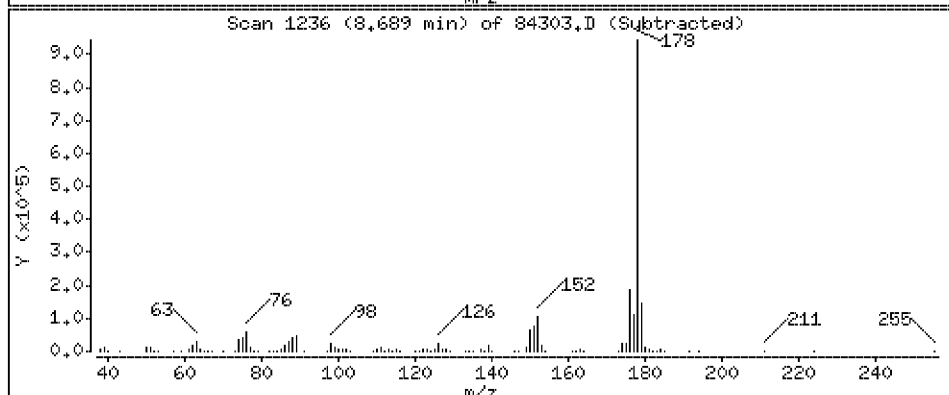
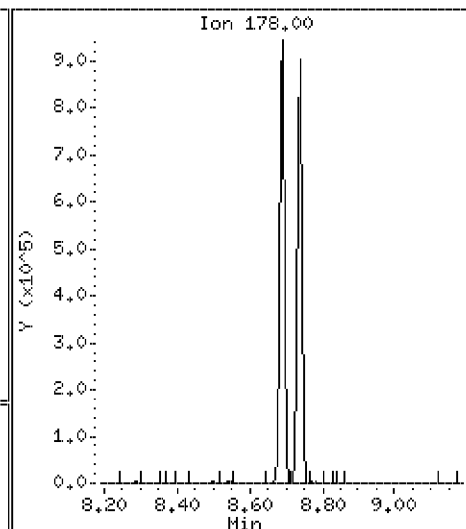
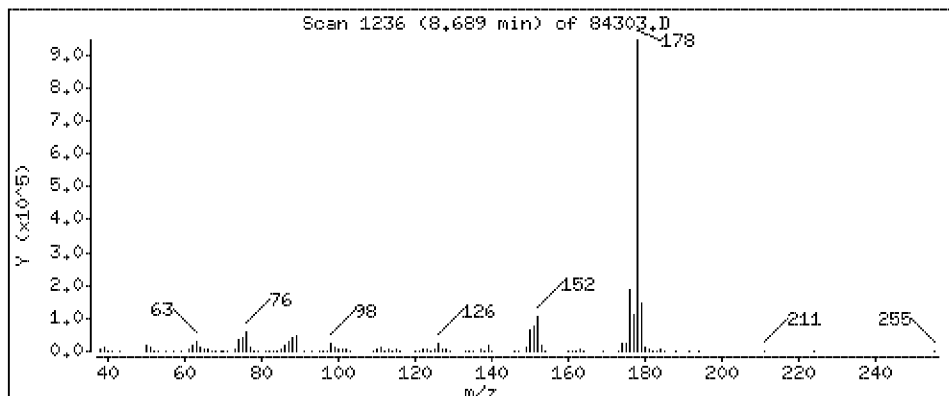
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

101 Phenanthrene

Concentration: 1260 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

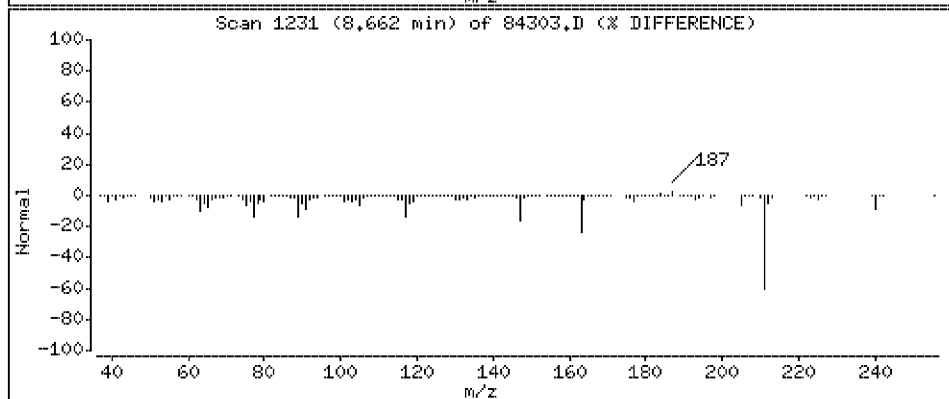
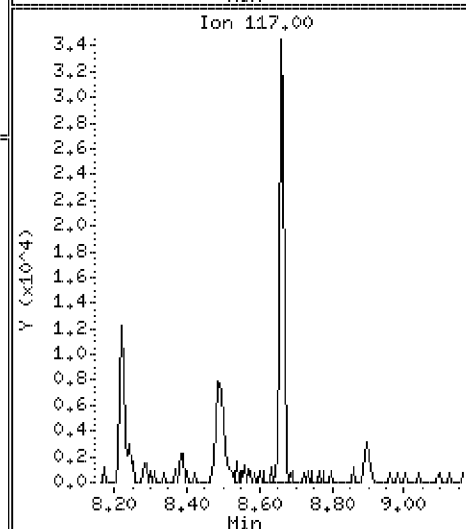
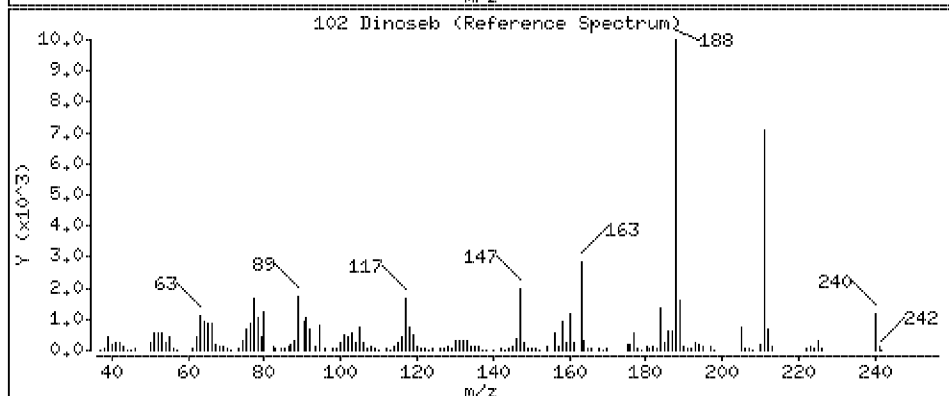
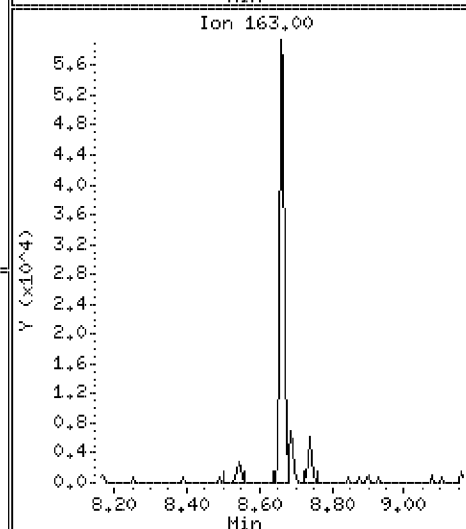
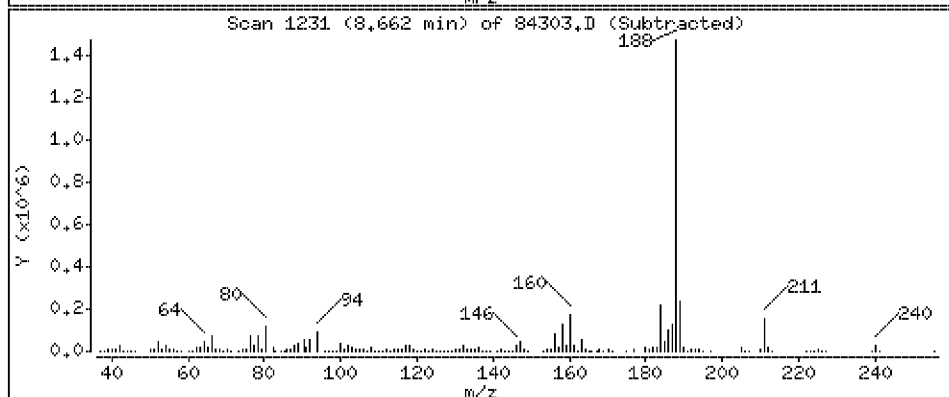
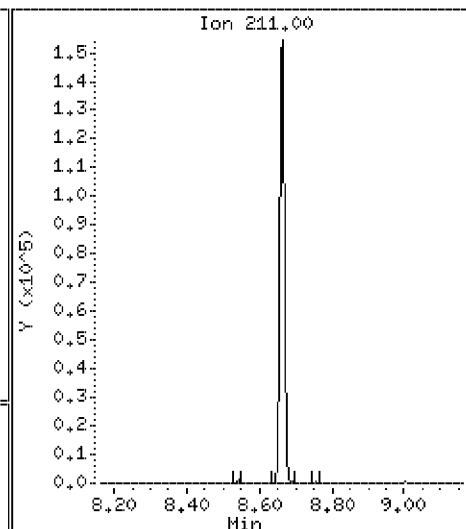
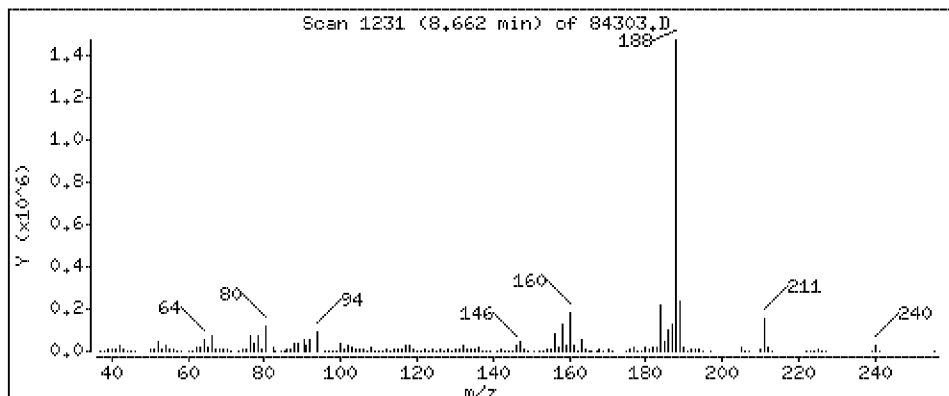
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

102 Dinoseb

Concentration: 1040 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

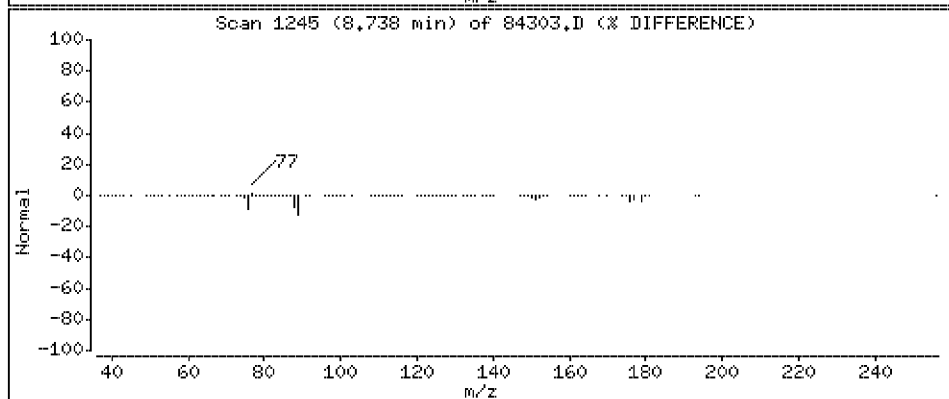
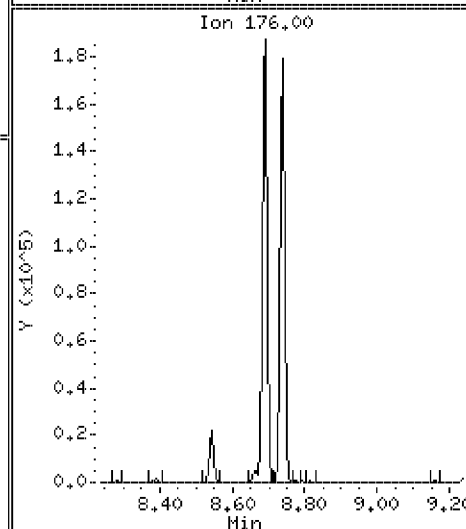
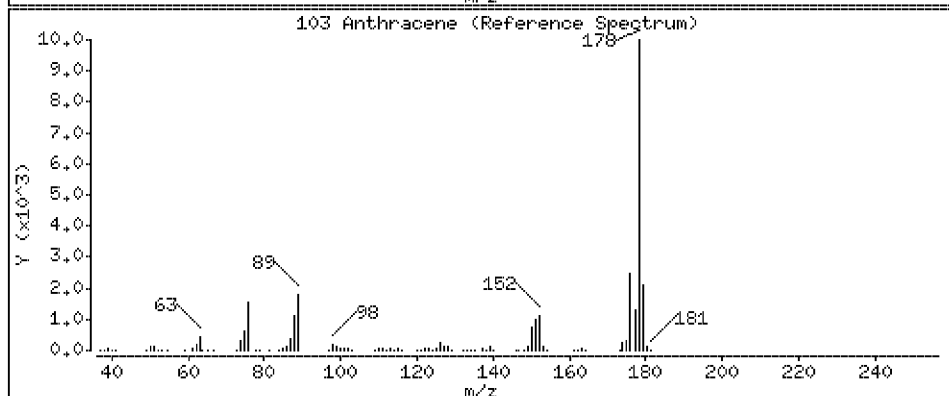
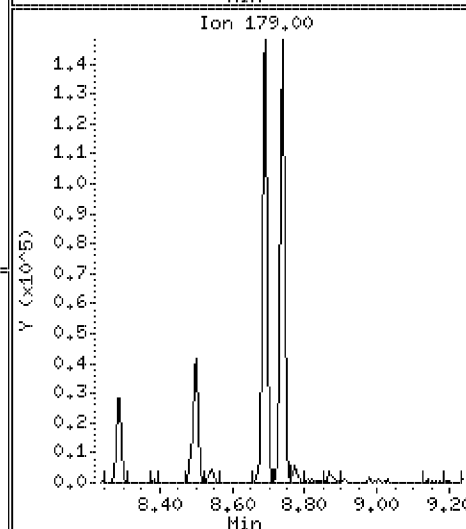
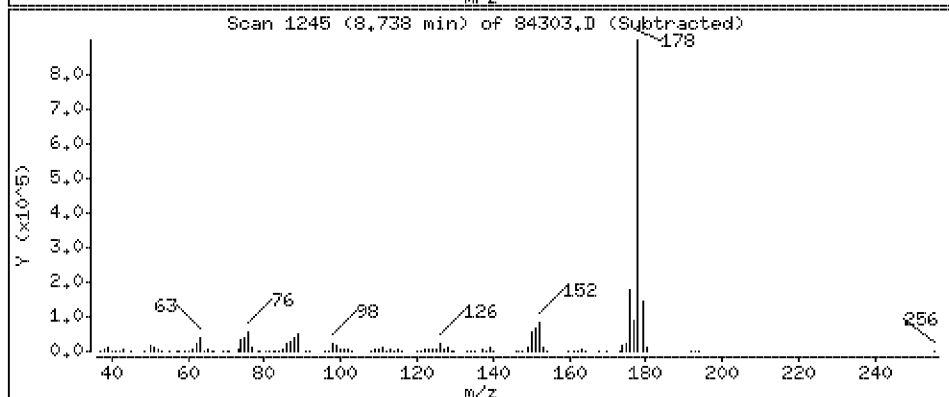
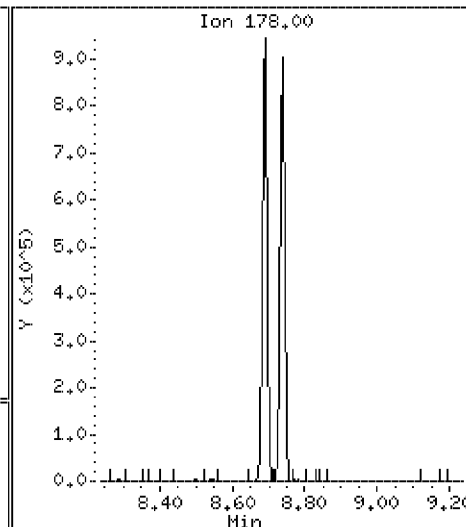
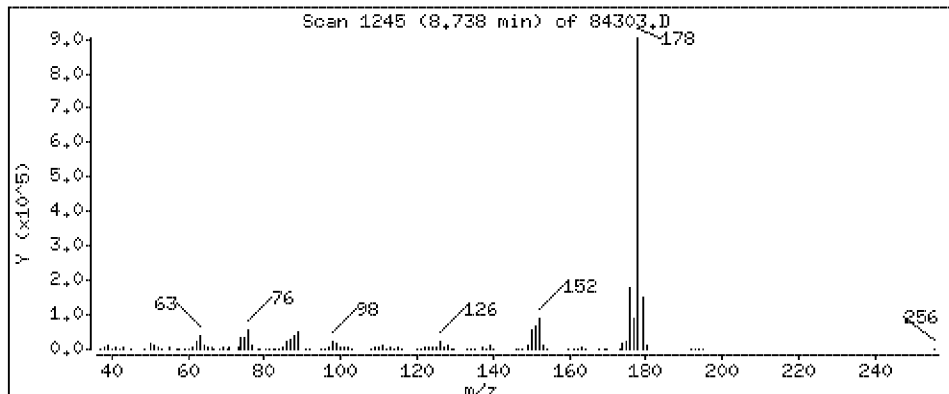
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

103 Anthracene

Concentration: 1210 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

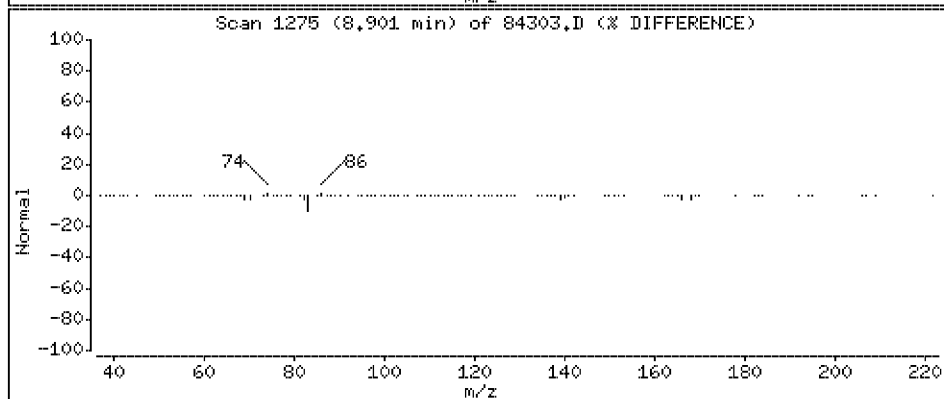
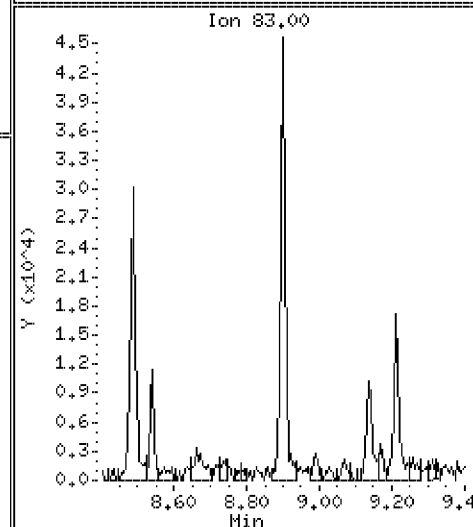
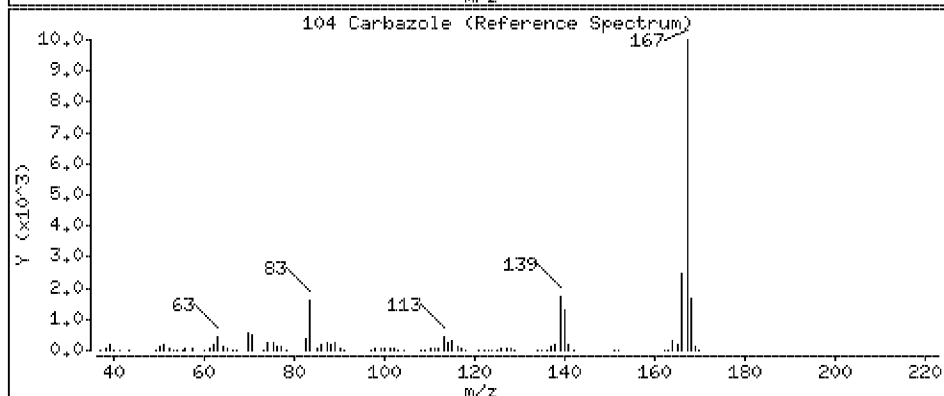
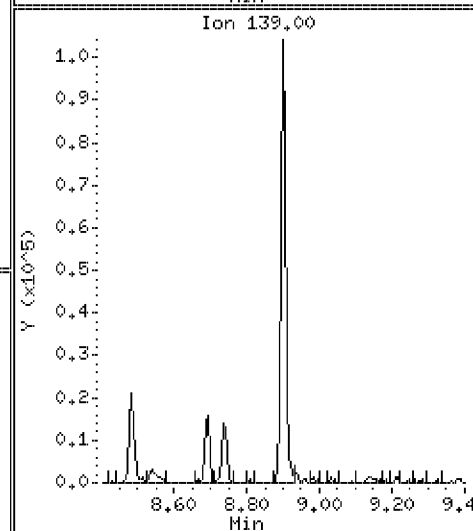
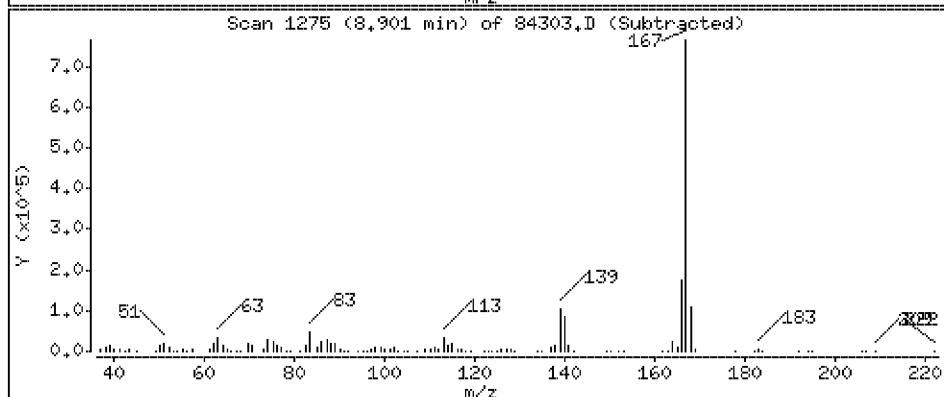
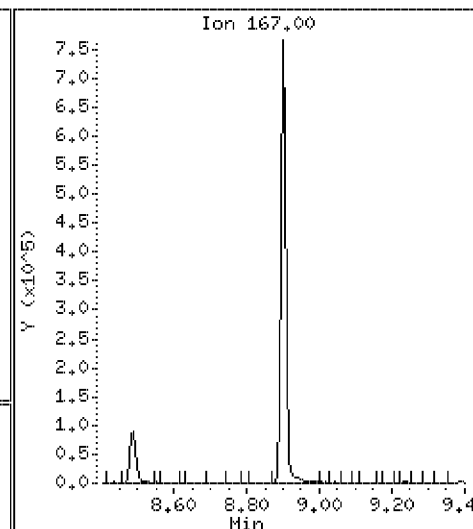
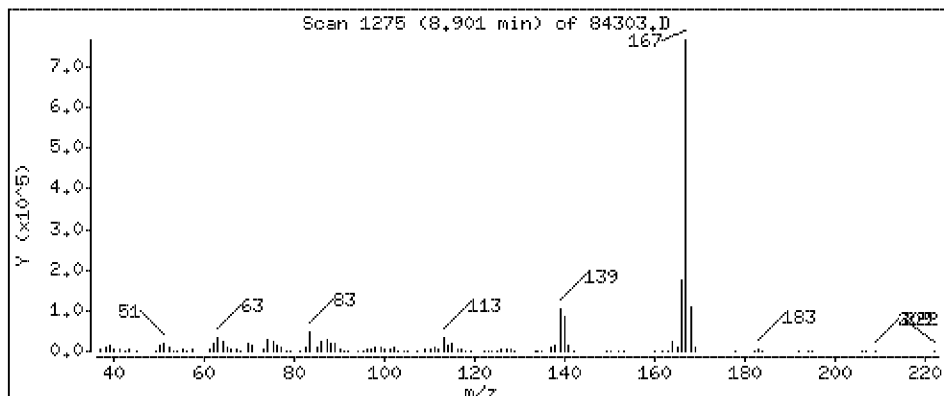
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

104 Carbazole

Concentration: 1330 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

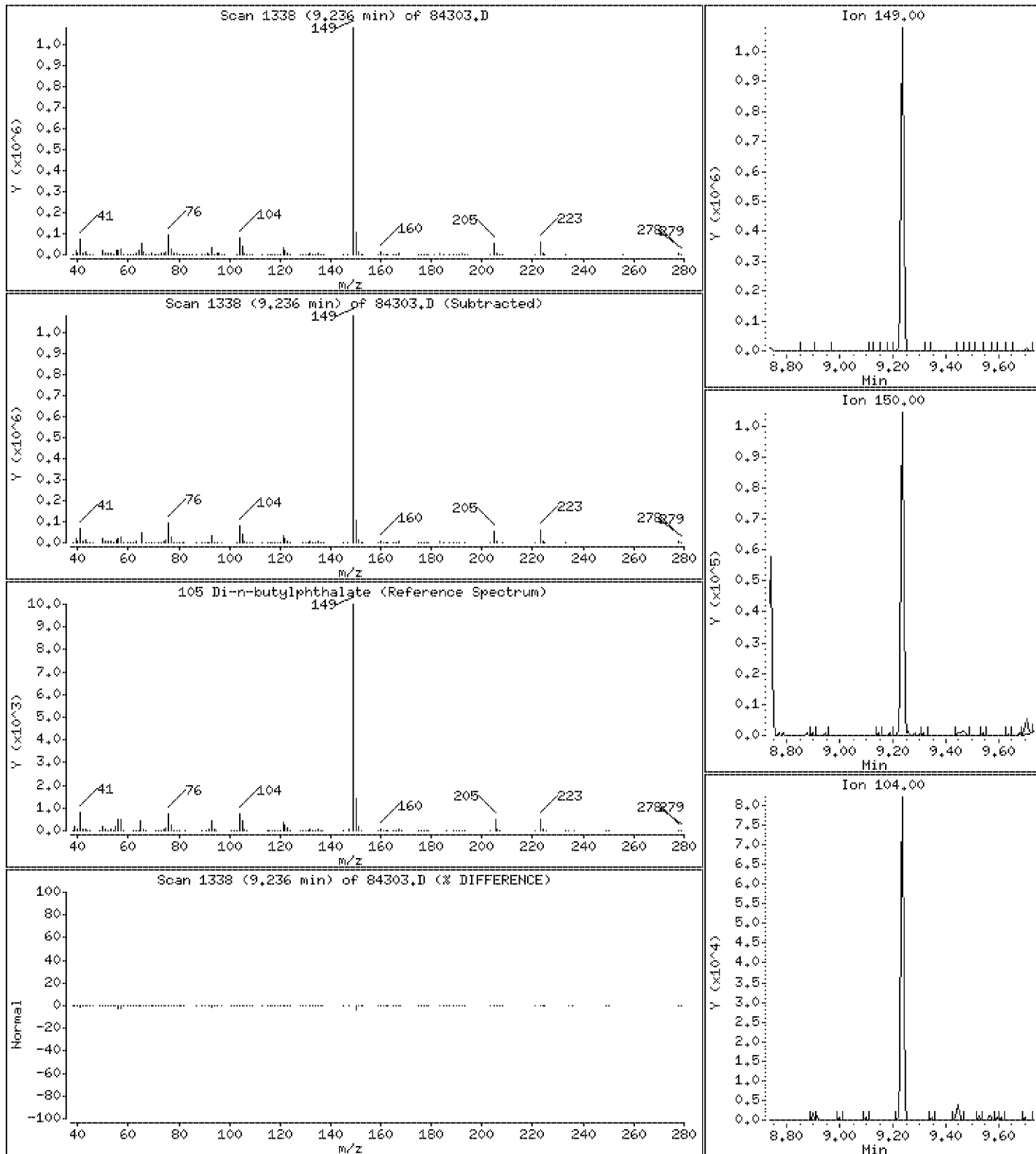
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

105 Di-n-butylphthalate

Concentration: 1170 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

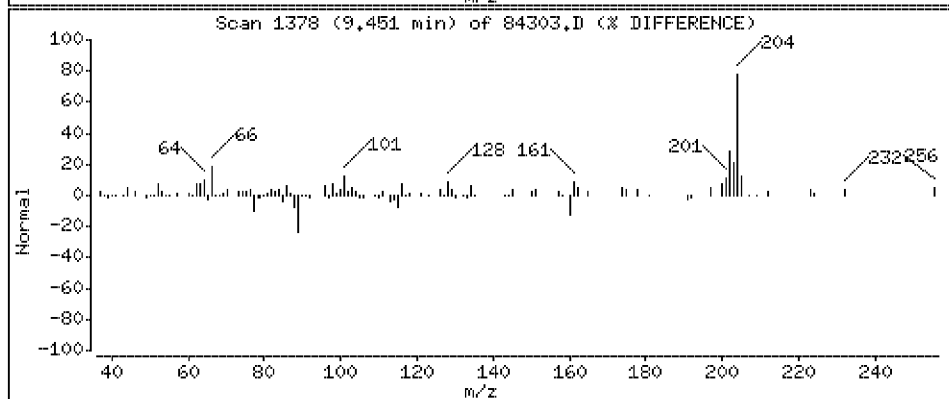
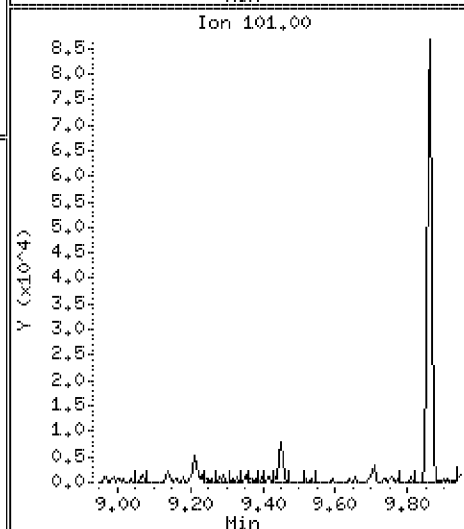
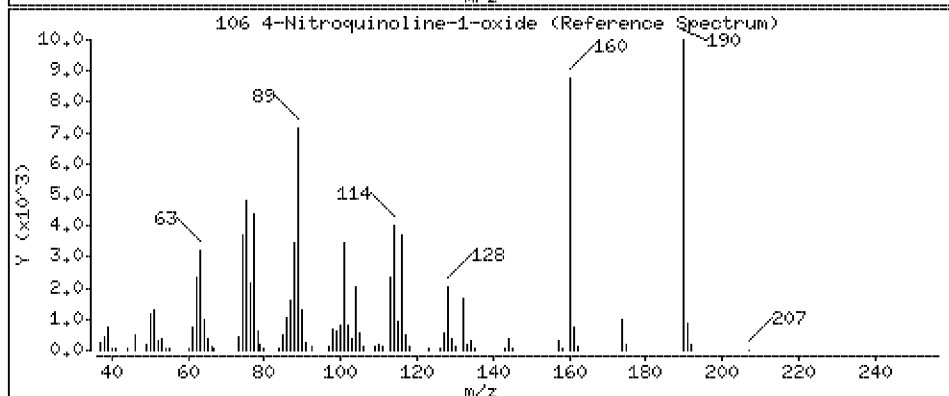
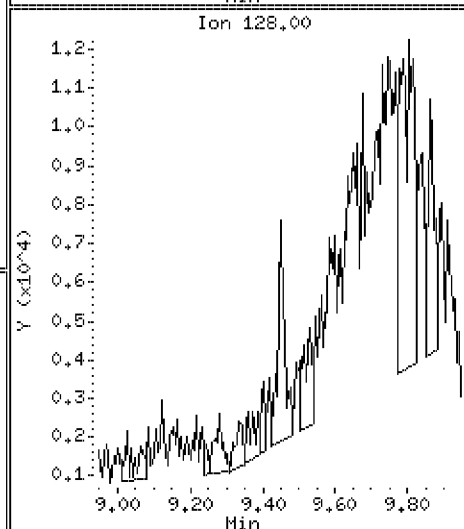
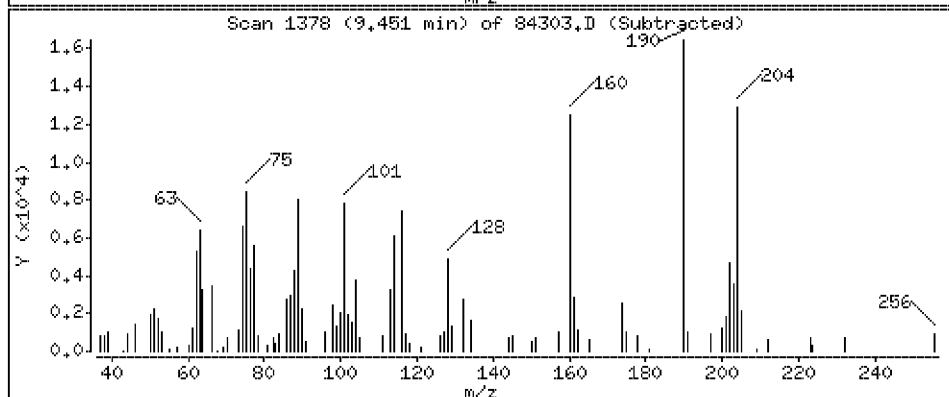
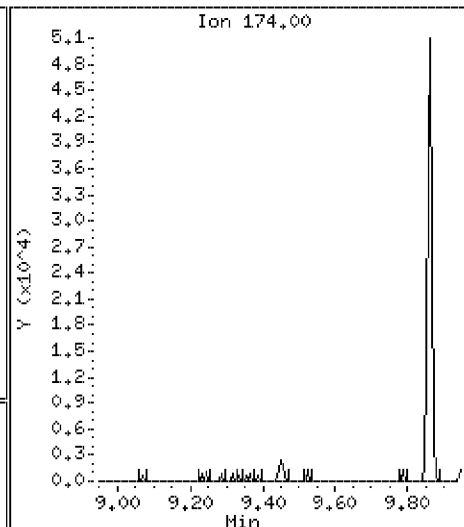
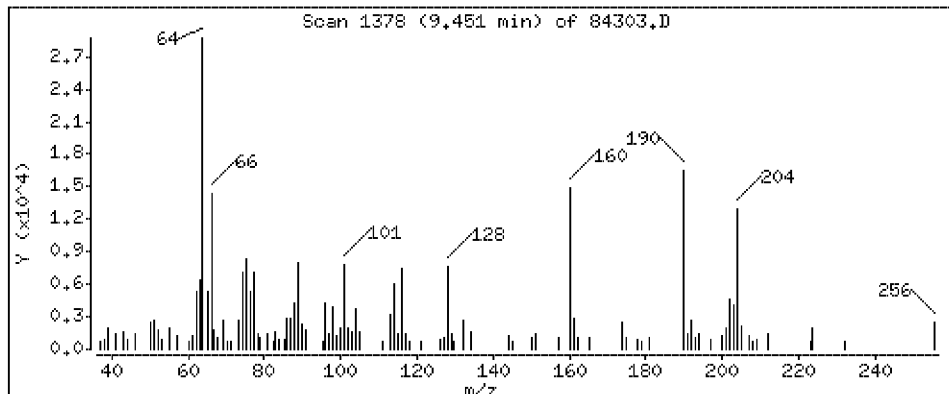
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

106 4-Nitroquinoline-1-oxide

Concentration: 320 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

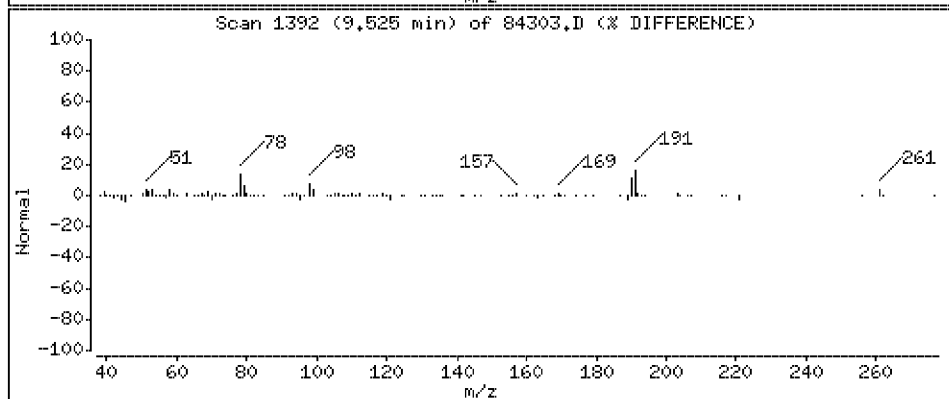
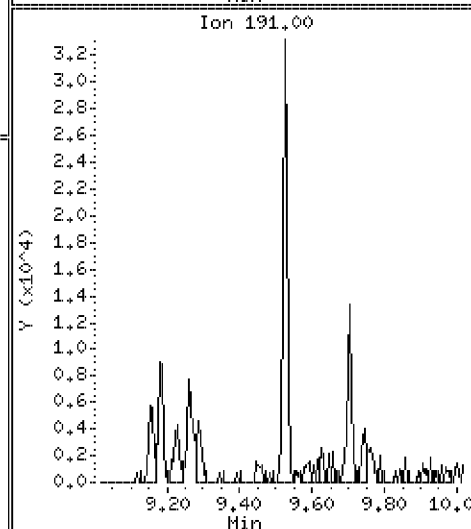
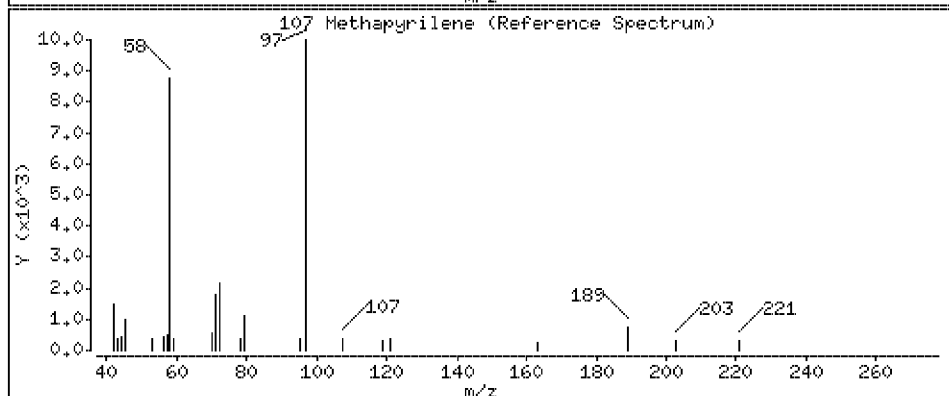
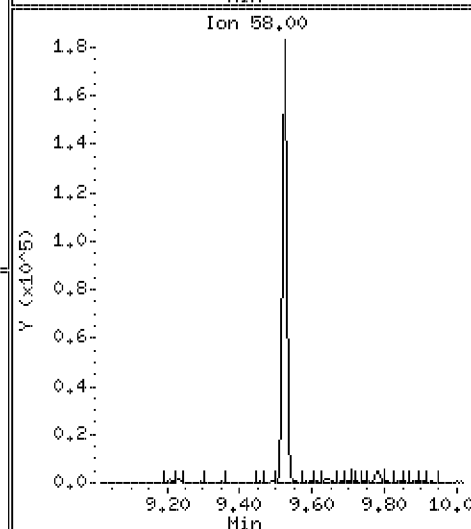
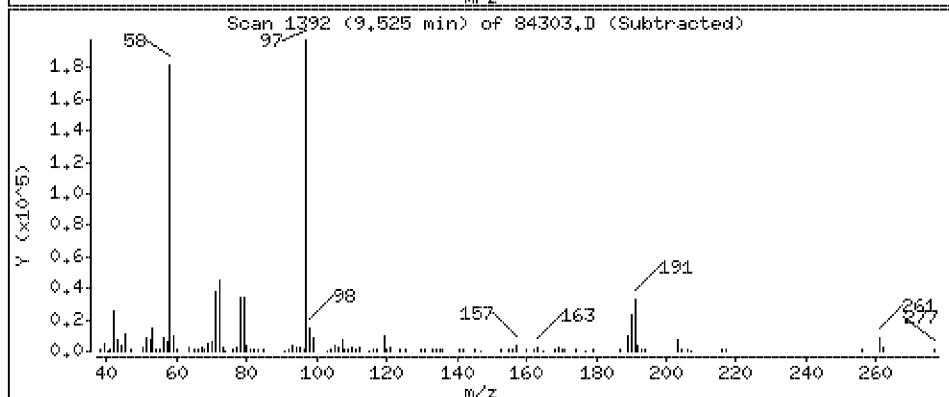
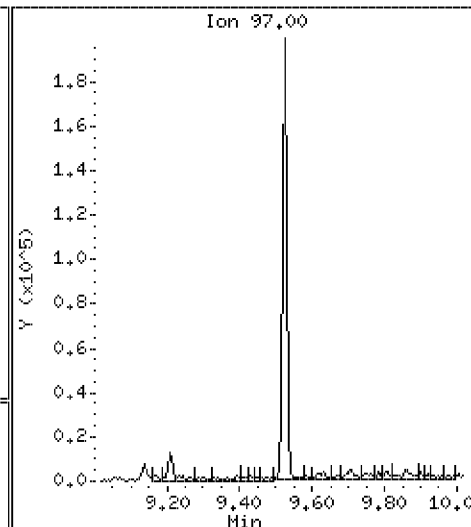
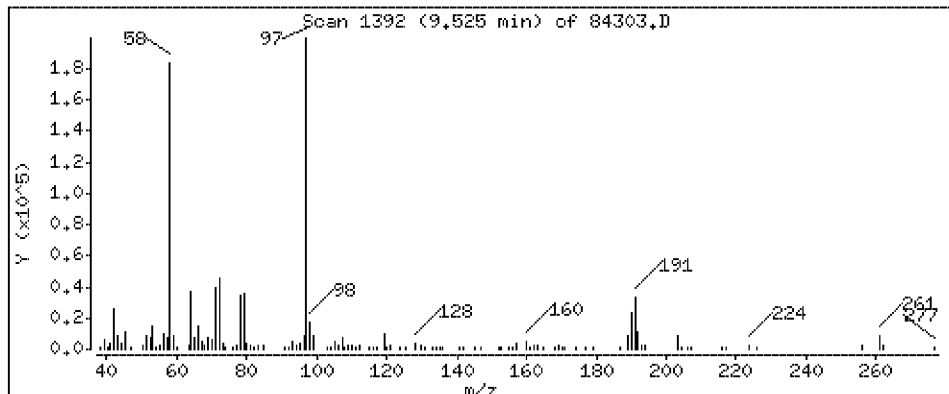
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

107 Methapyrilene

Concentration: 18500 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

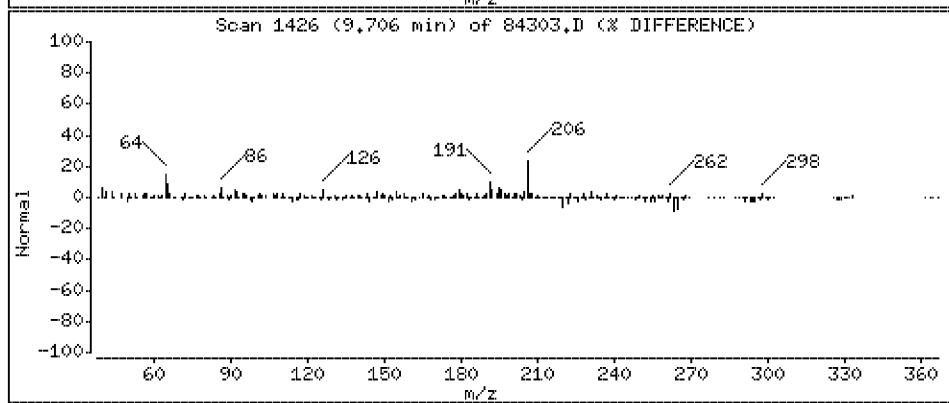
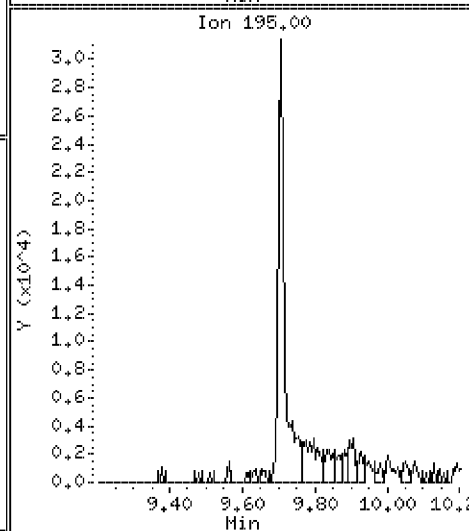
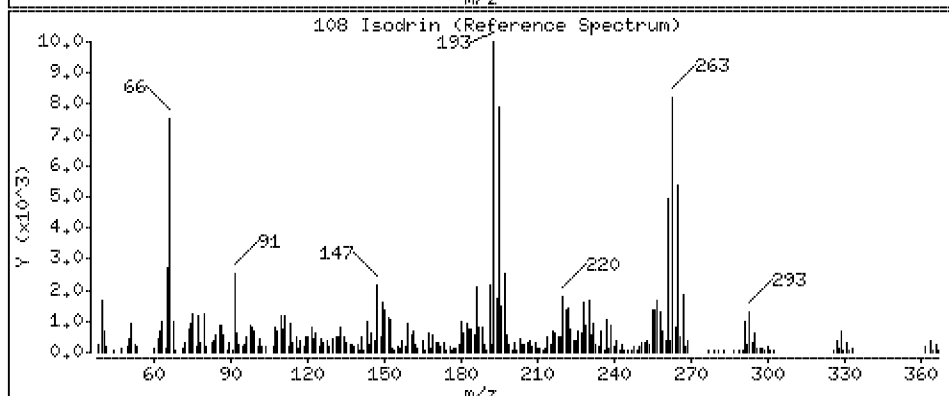
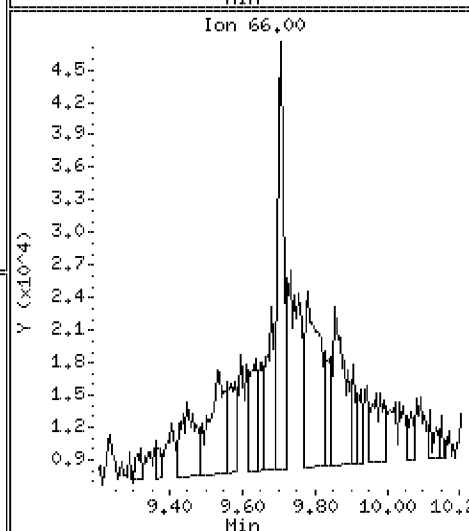
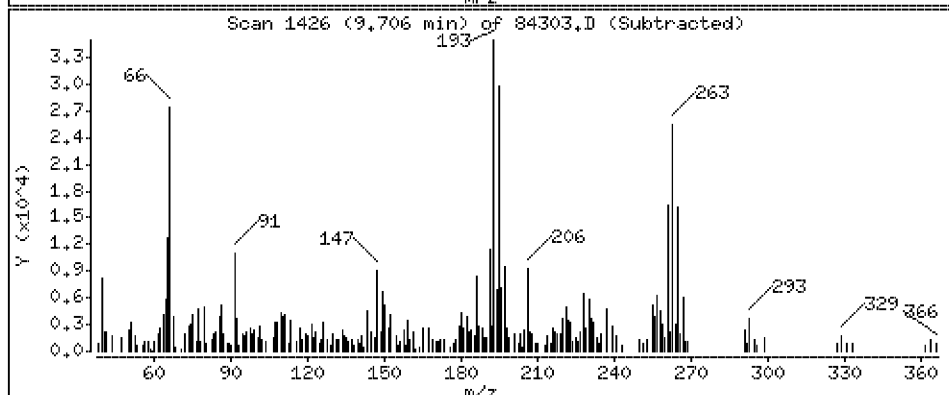
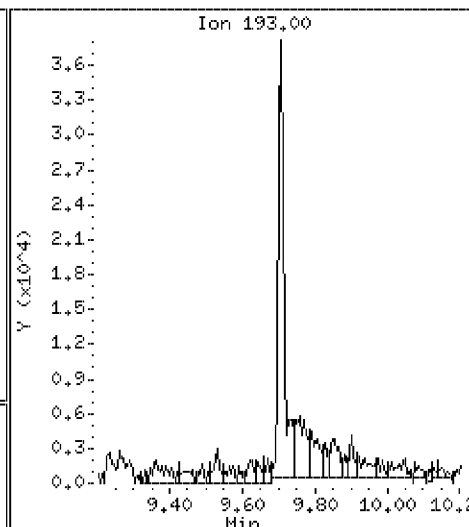
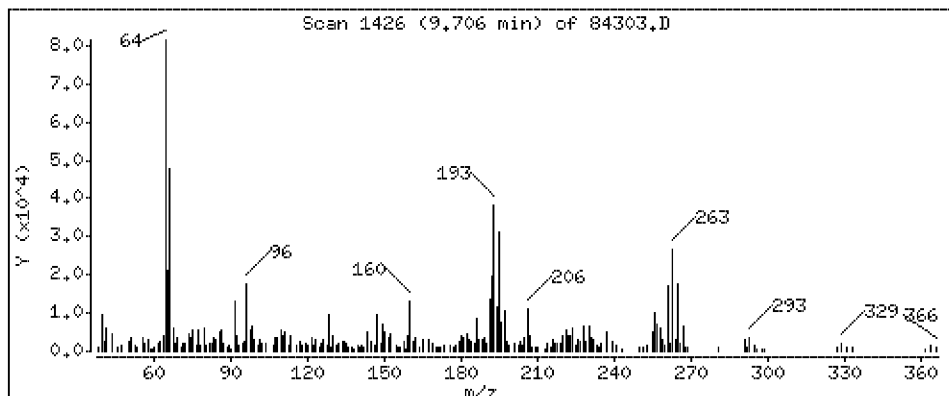
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

108 Isodrin

Concentration: 527 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

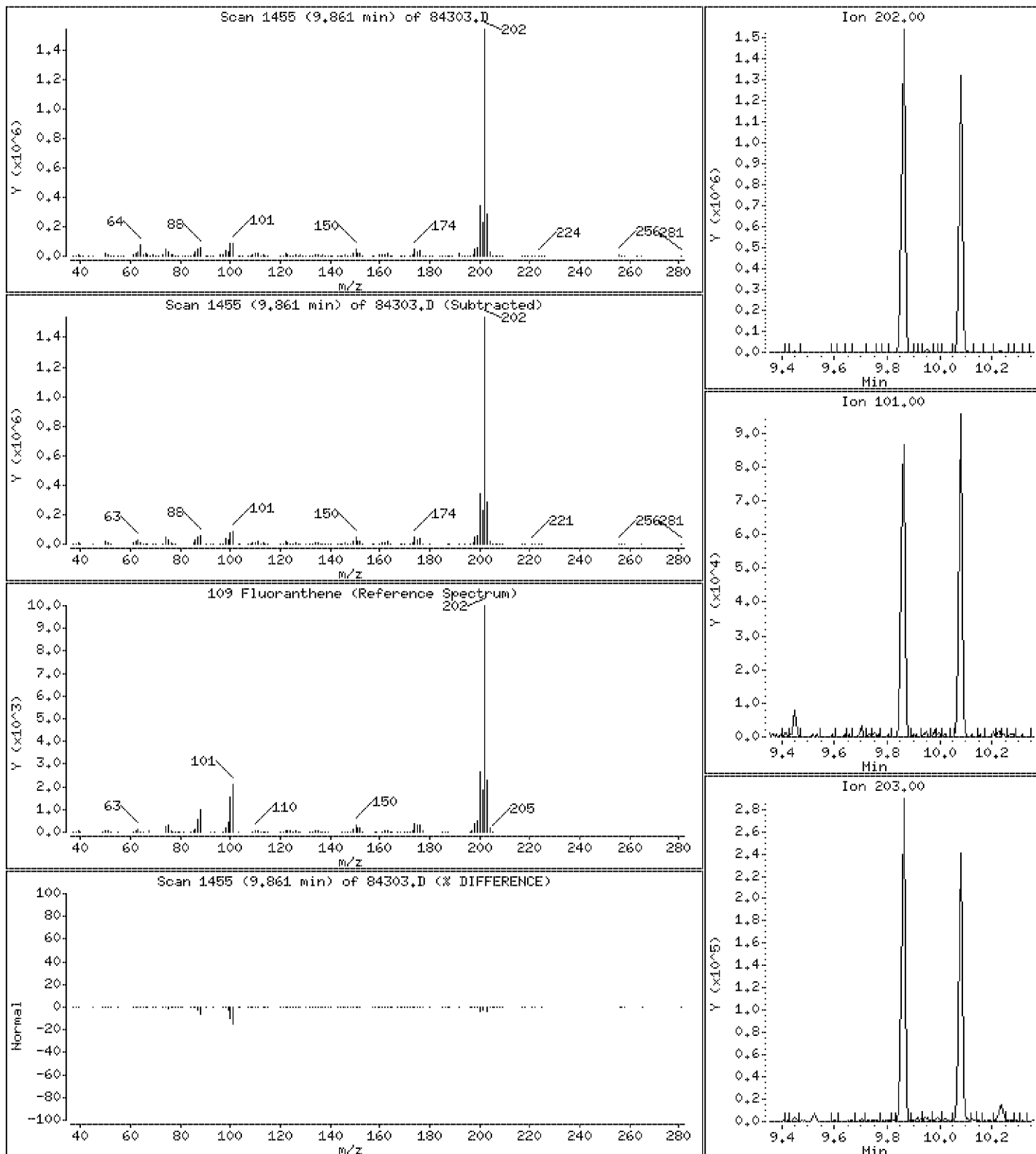
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

109 Fluoranthene

Concentration: 1630 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

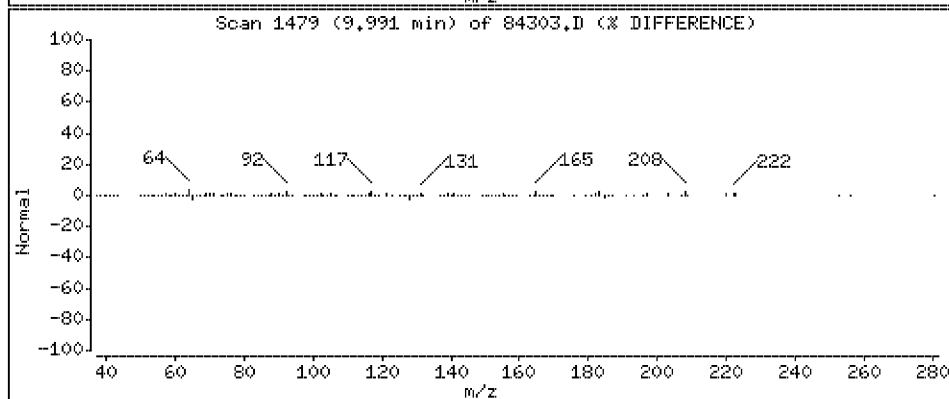
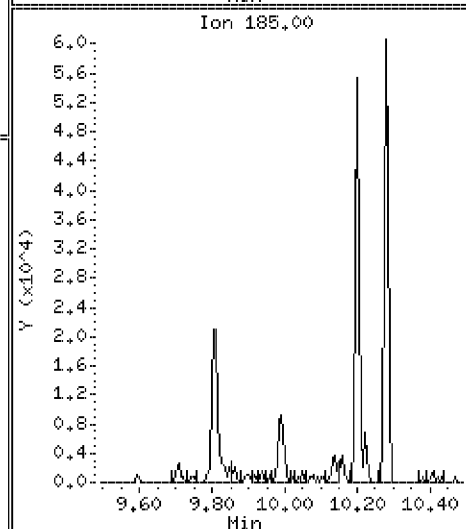
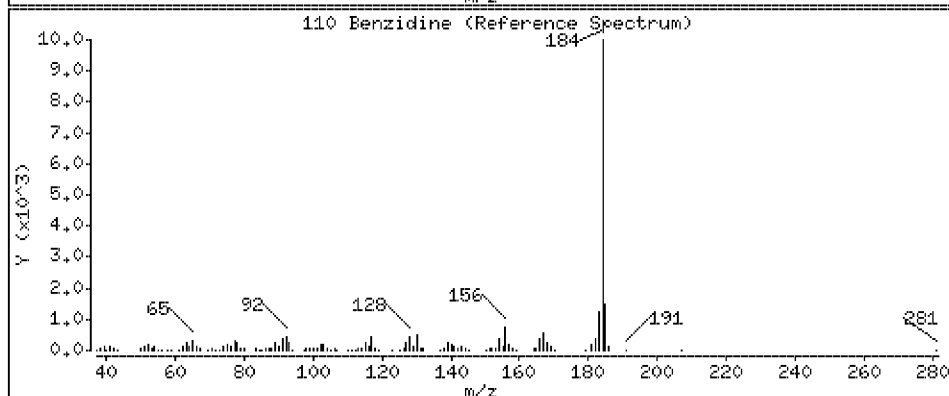
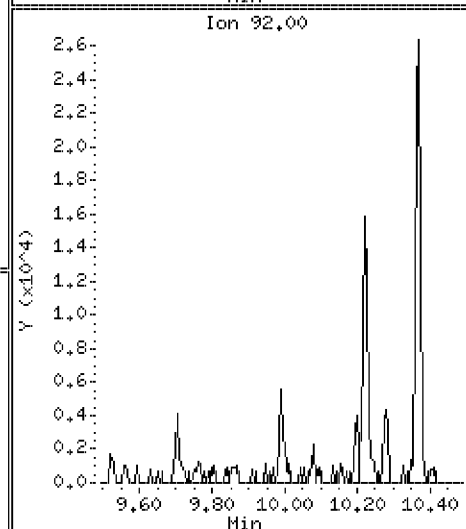
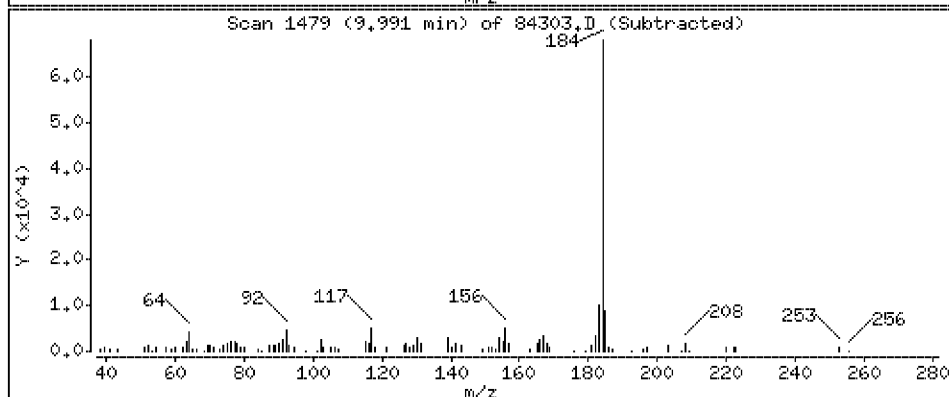
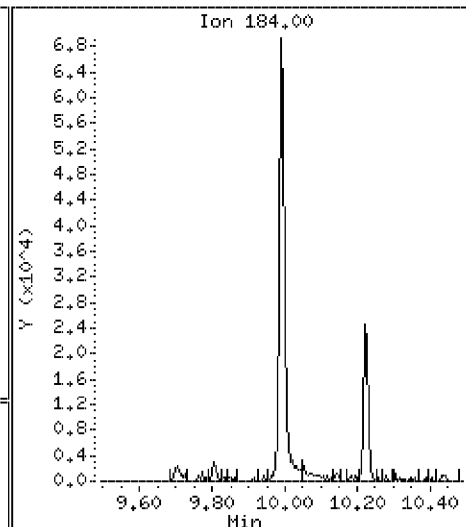
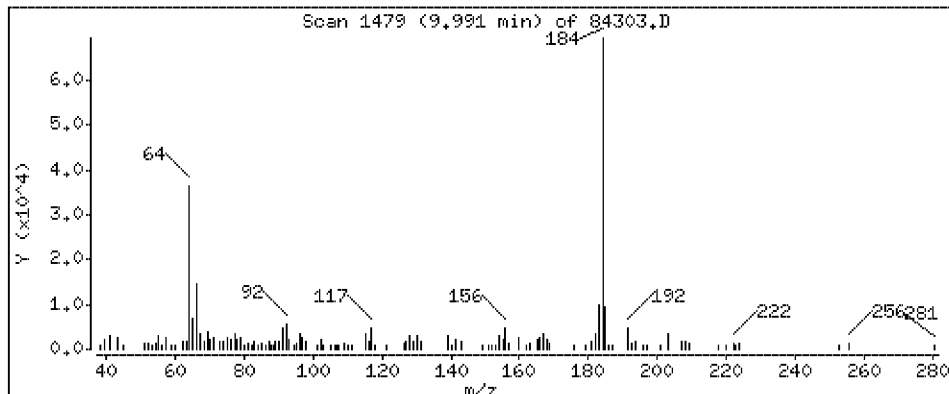
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

110 Benzidine

Concentration: 127 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

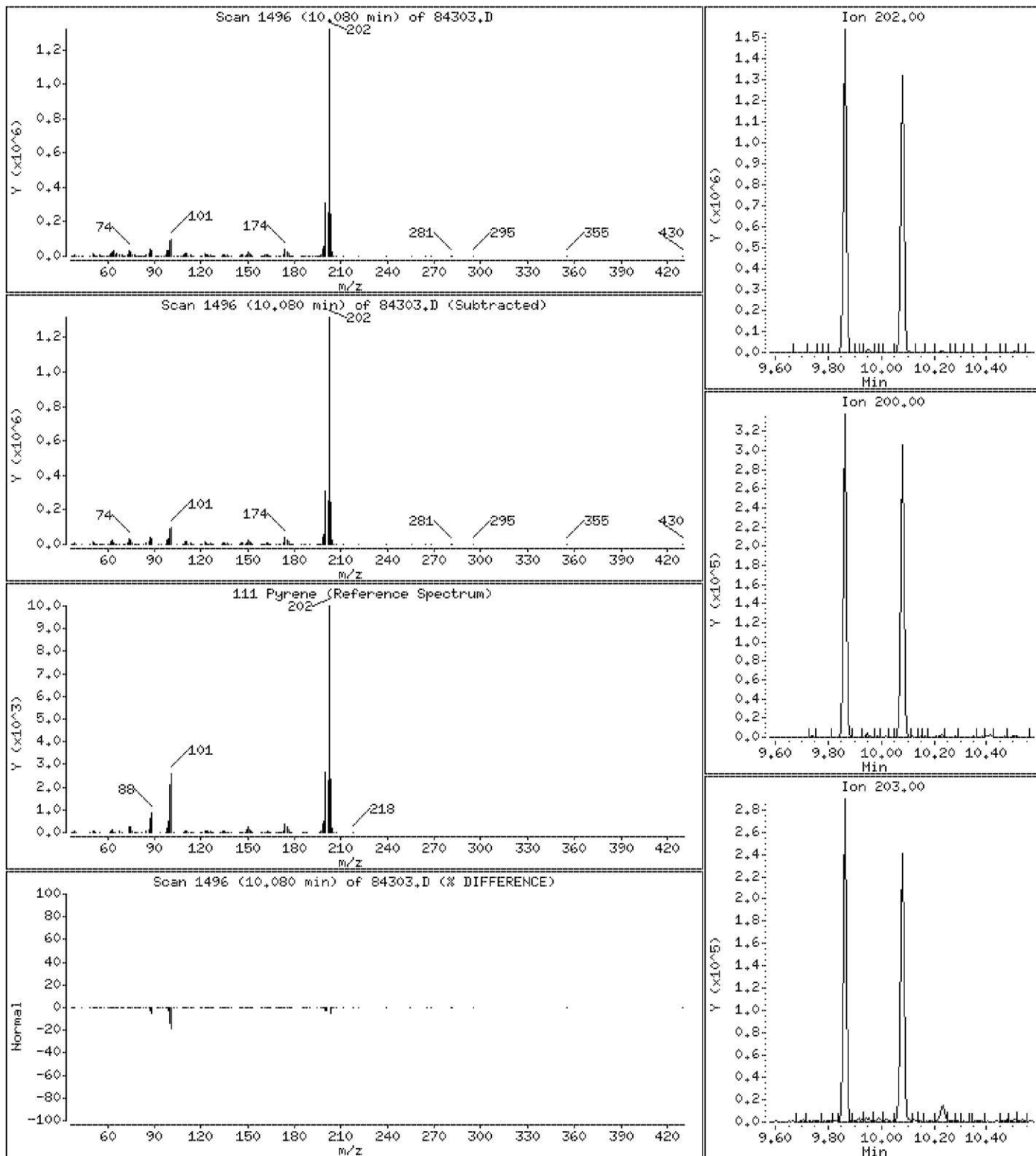
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

111 Pyrene

Concentration: 1590 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

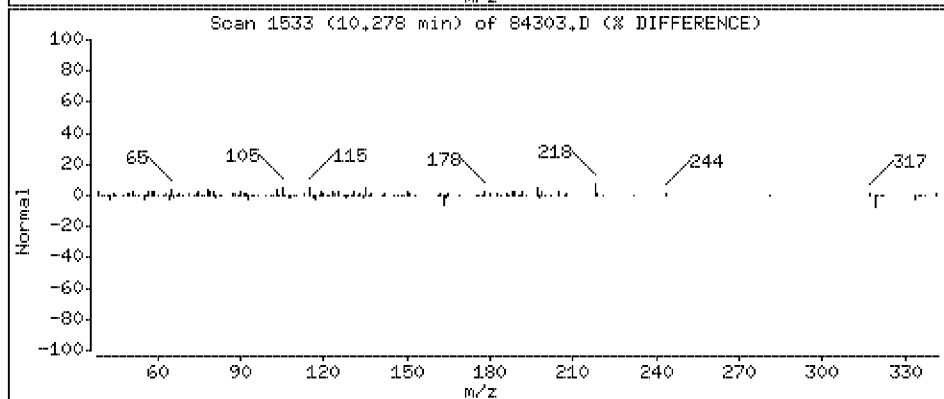
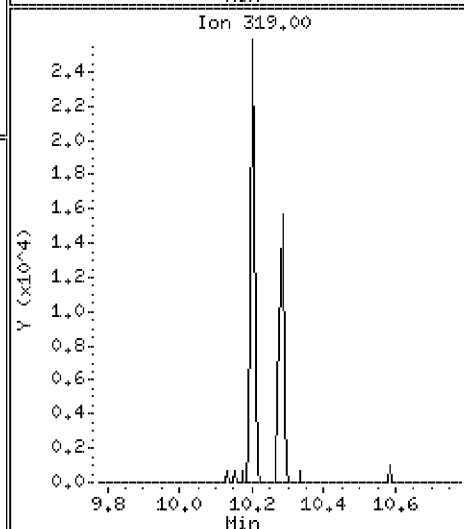
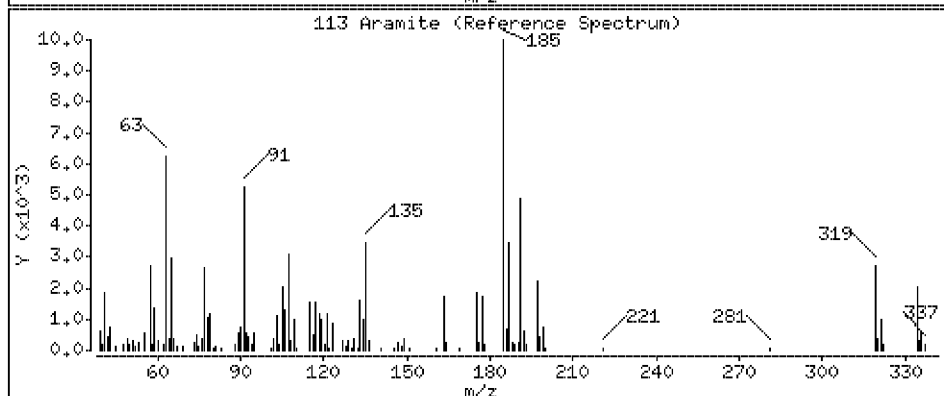
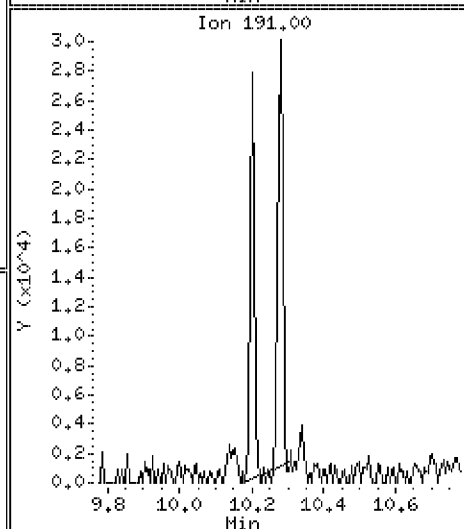
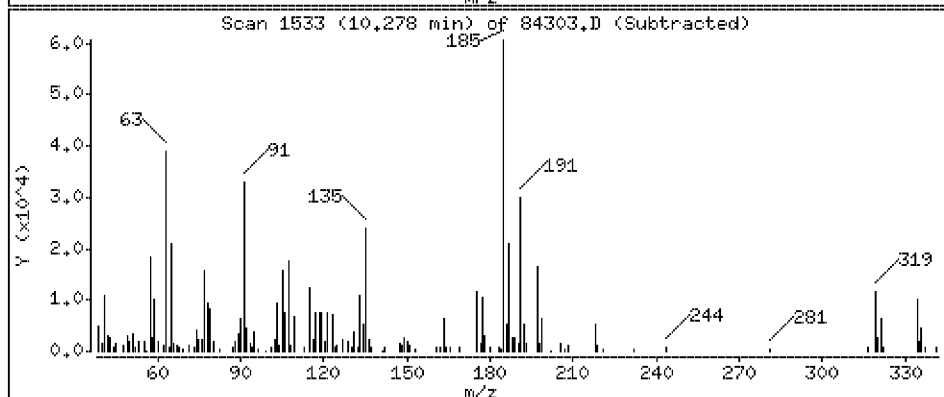
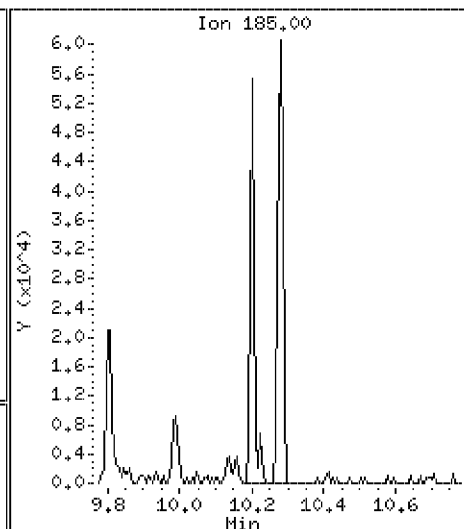
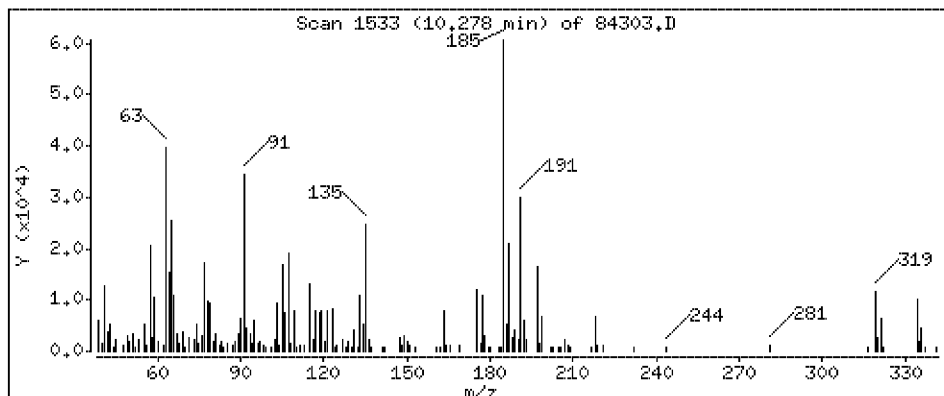
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

113 Aramite

Concentration: 1040 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

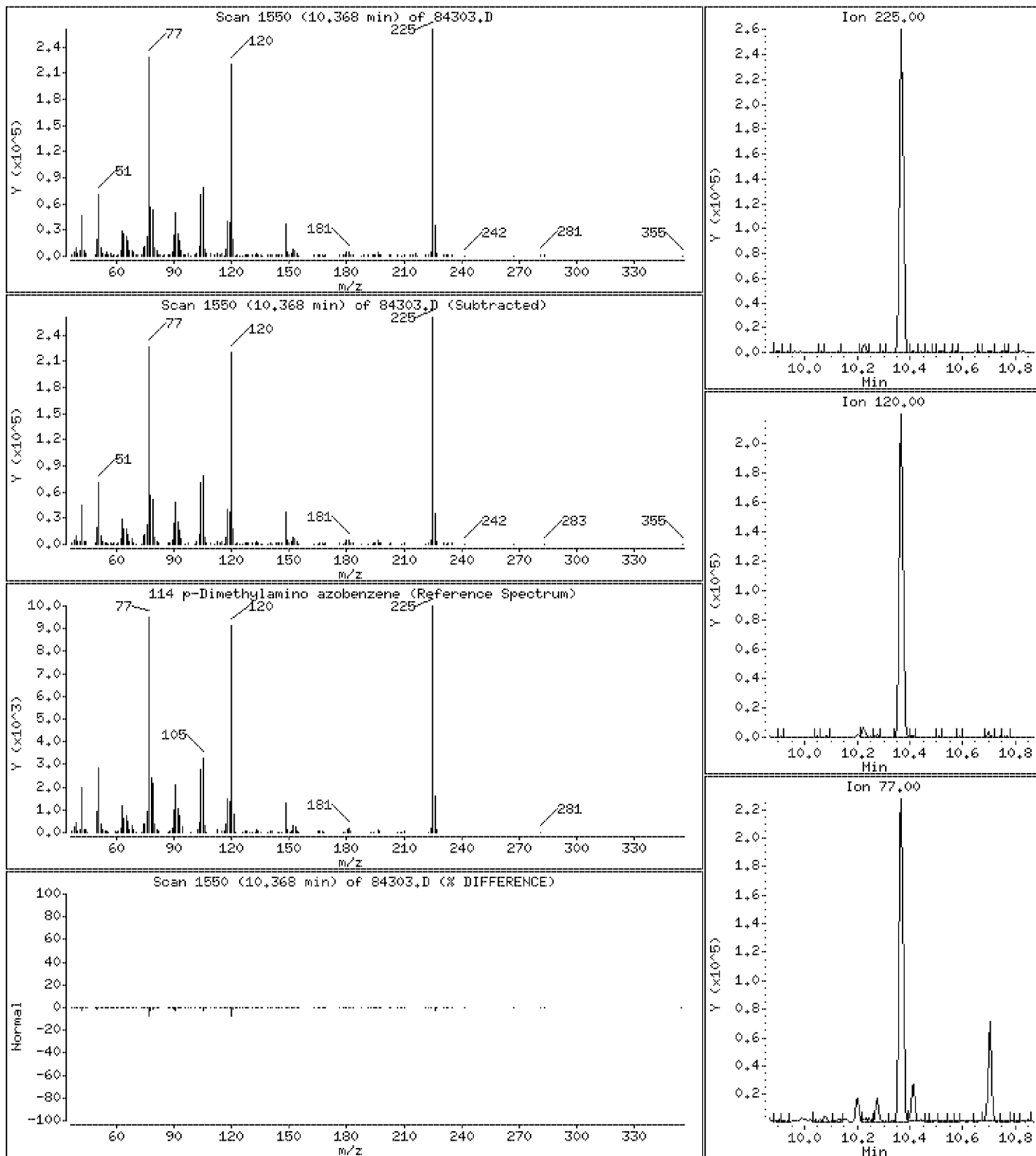
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

114 p-Dimethylamino azobenzene

Concentration: 945 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

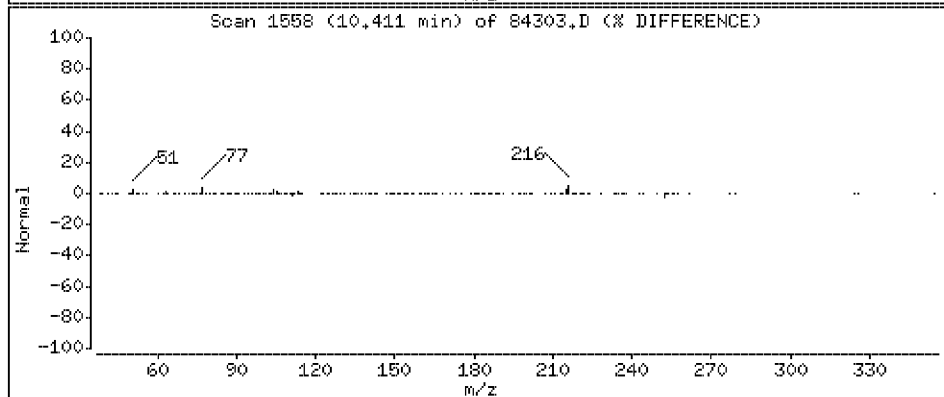
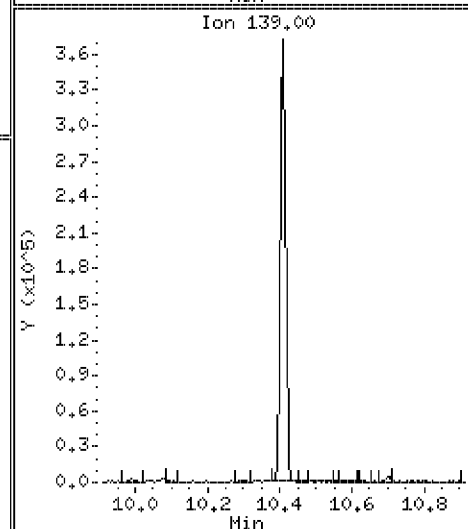
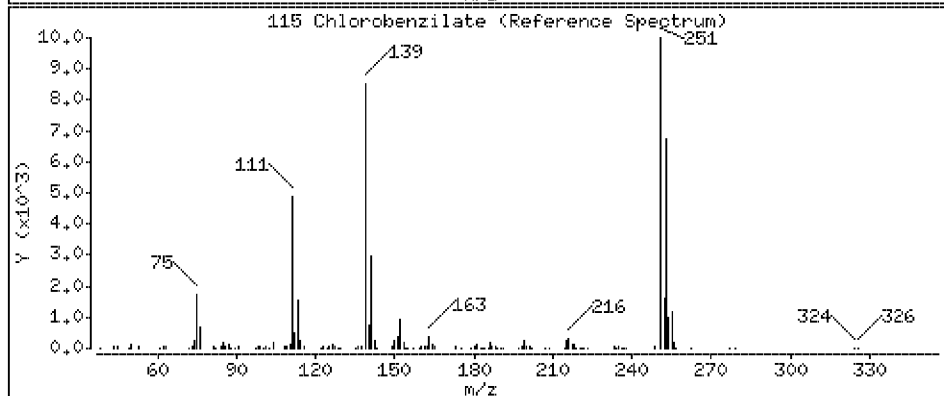
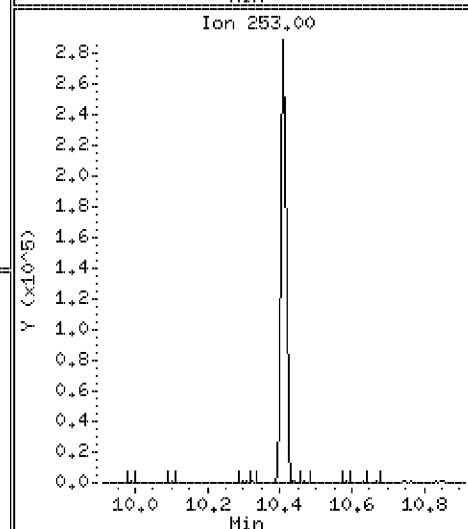
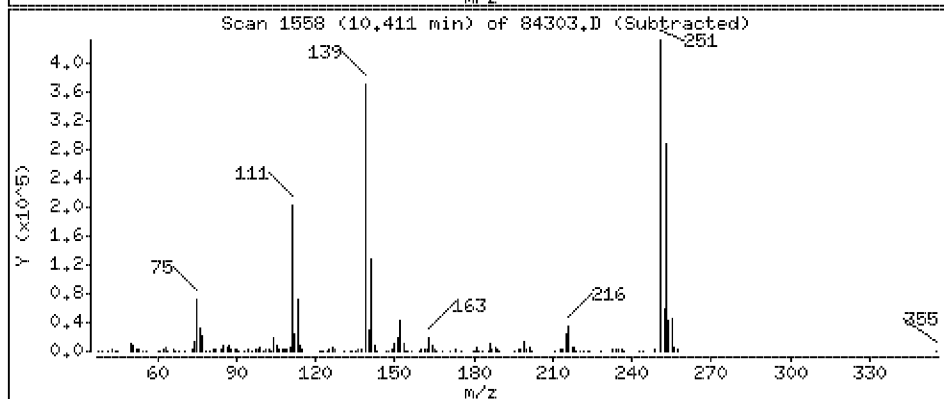
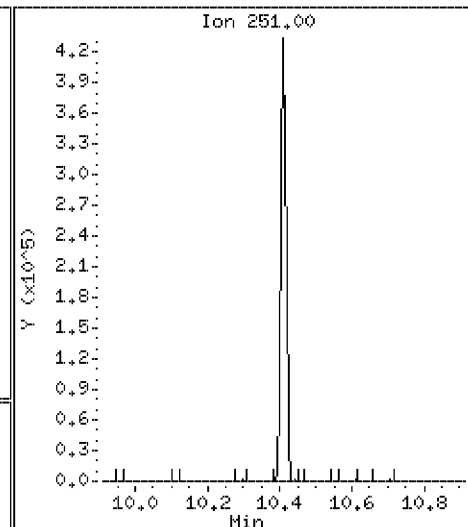
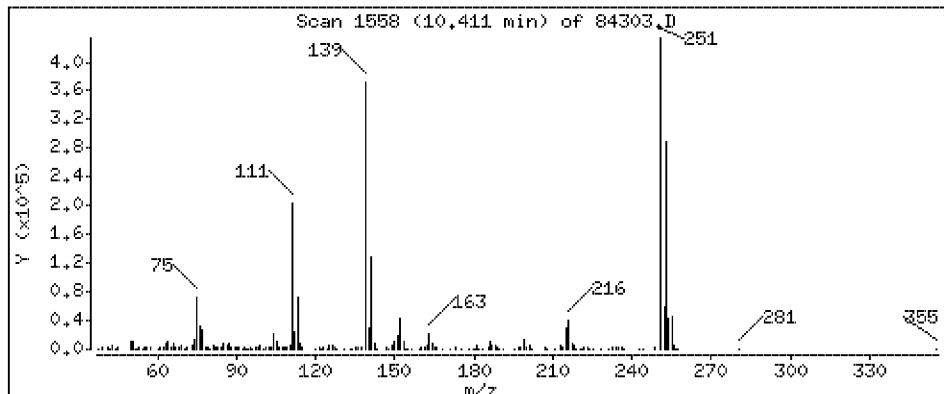
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

115 Chlorobenzilate

Concentration: 1010 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

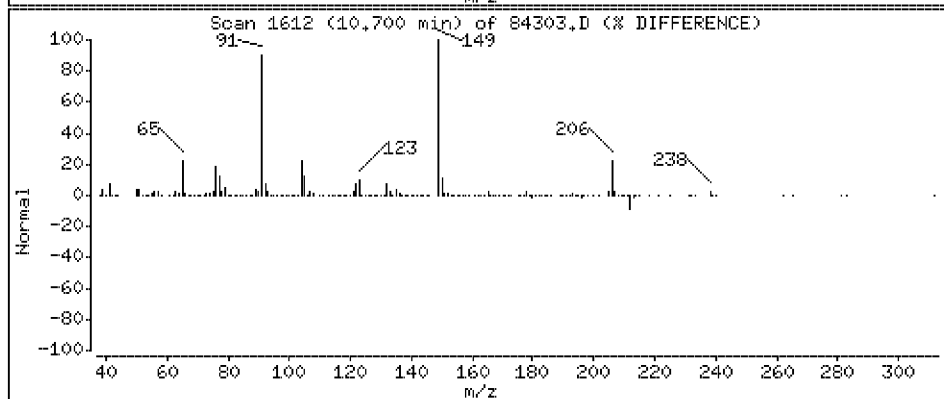
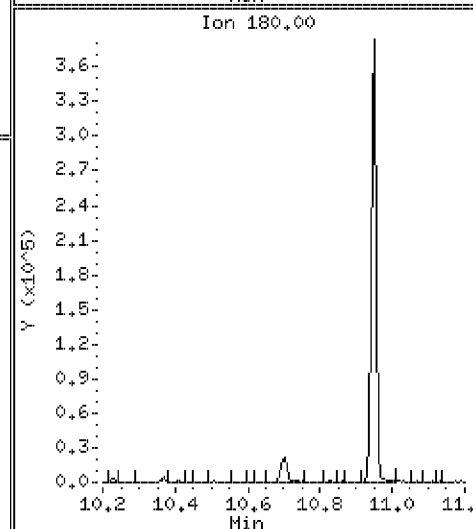
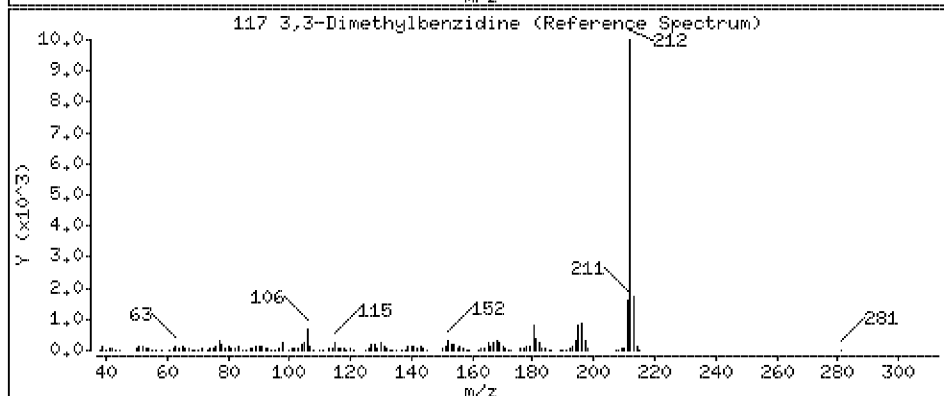
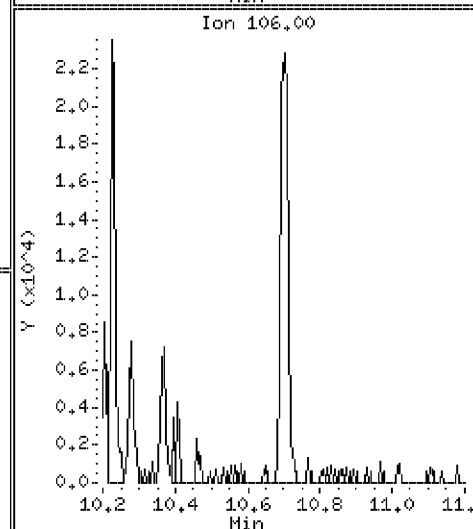
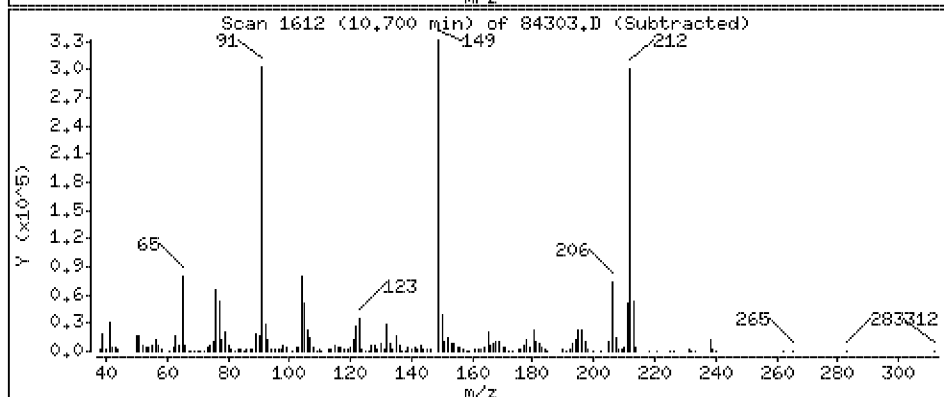
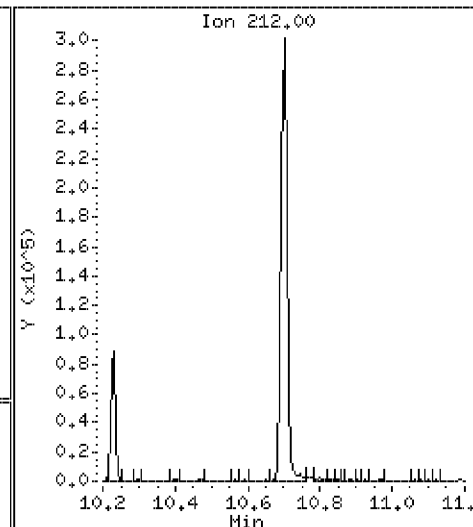
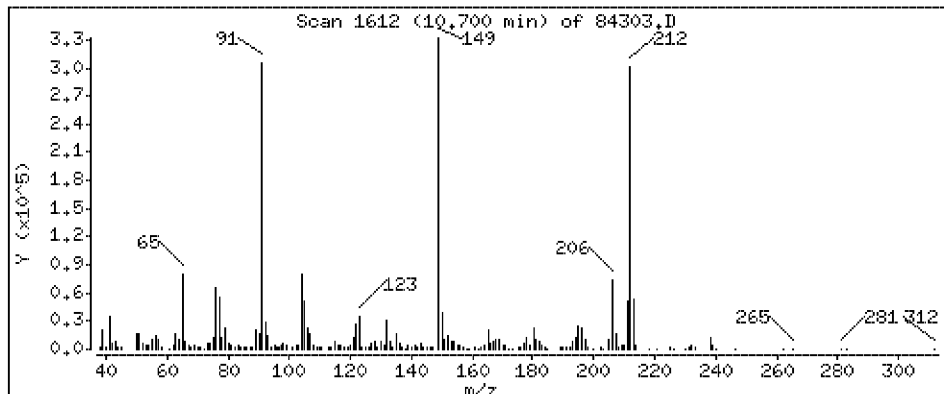
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

117 3,3-Dimethylbenzidine

Concentration: 432 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

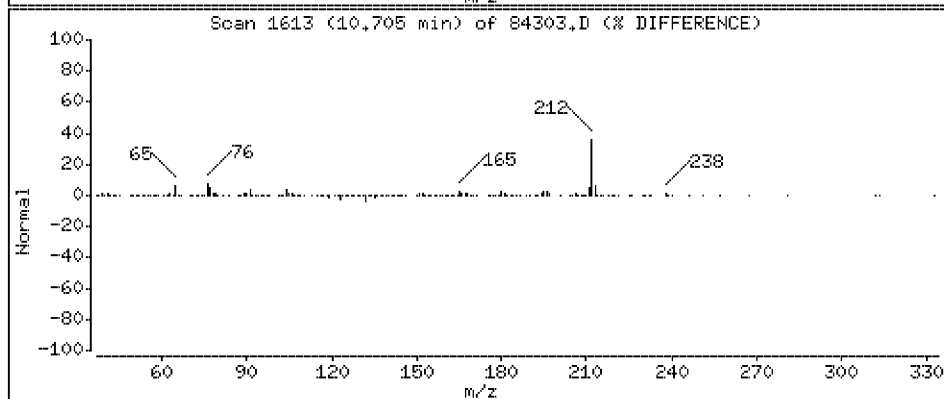
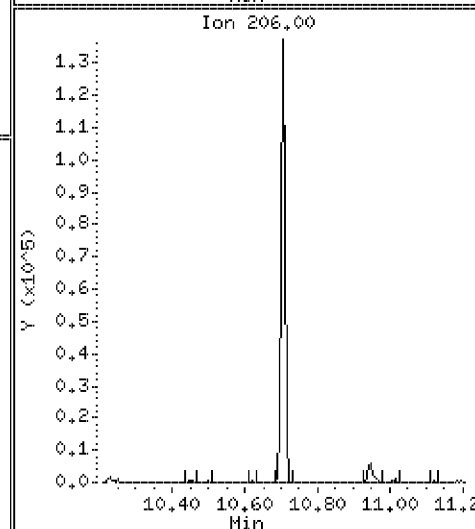
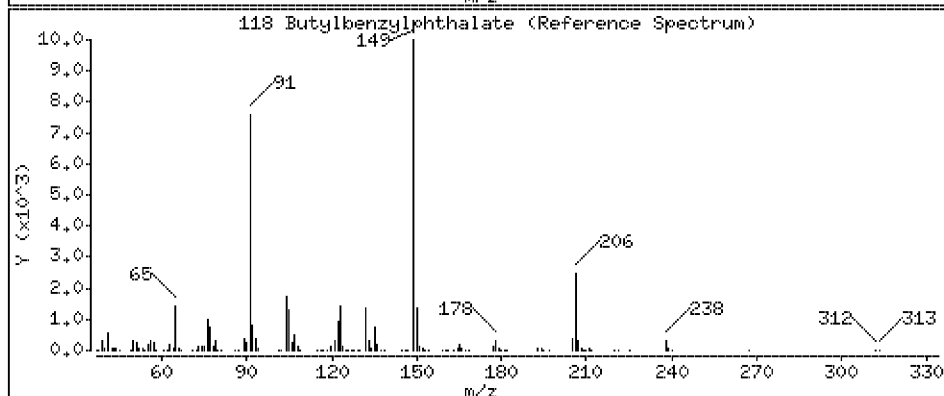
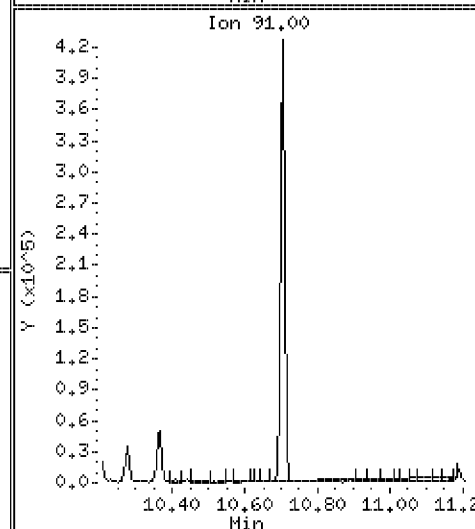
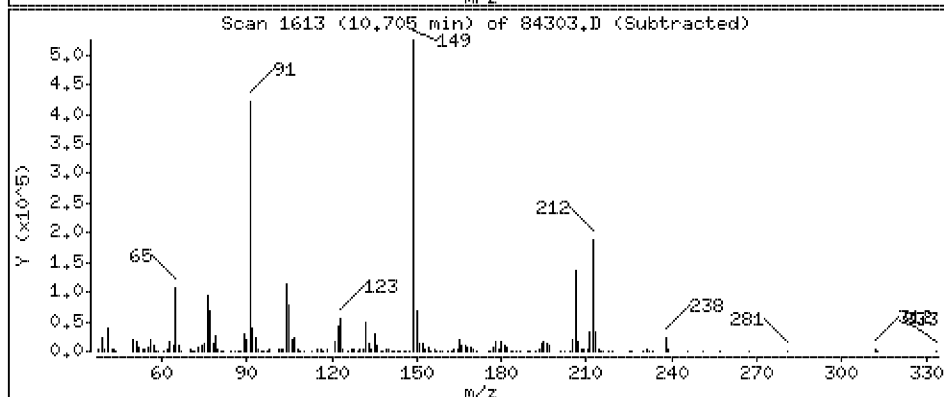
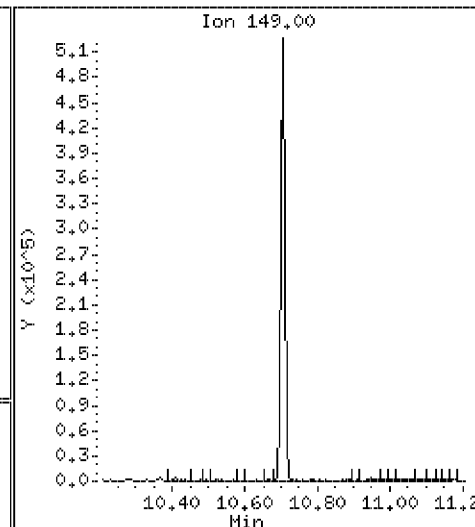
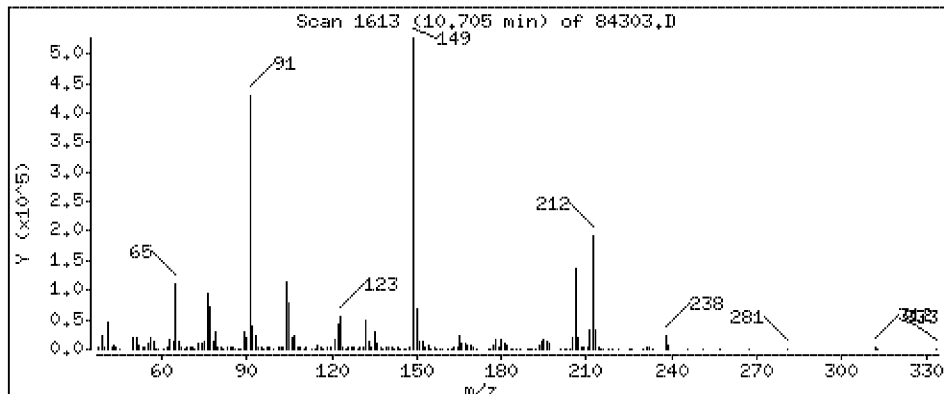
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

118 Butylbenzylphthalate

Concentration: 1230 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

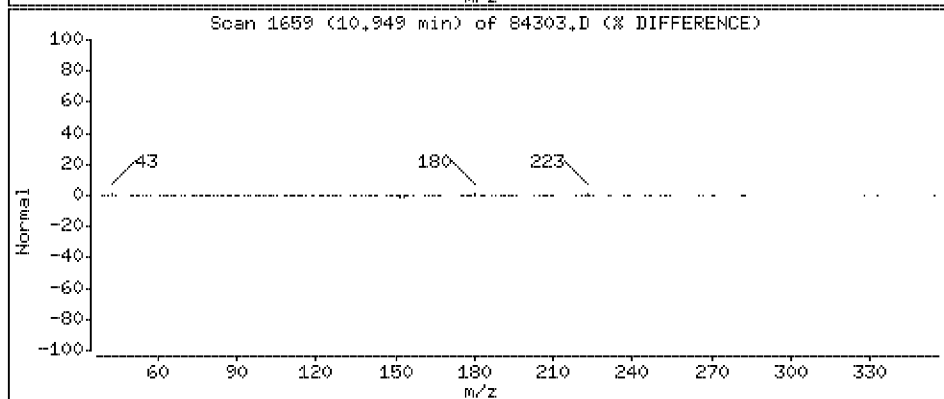
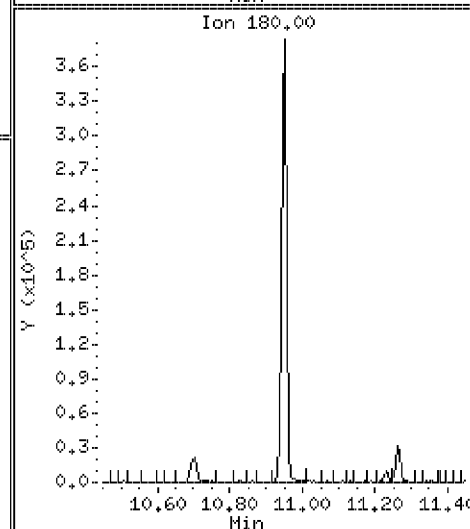
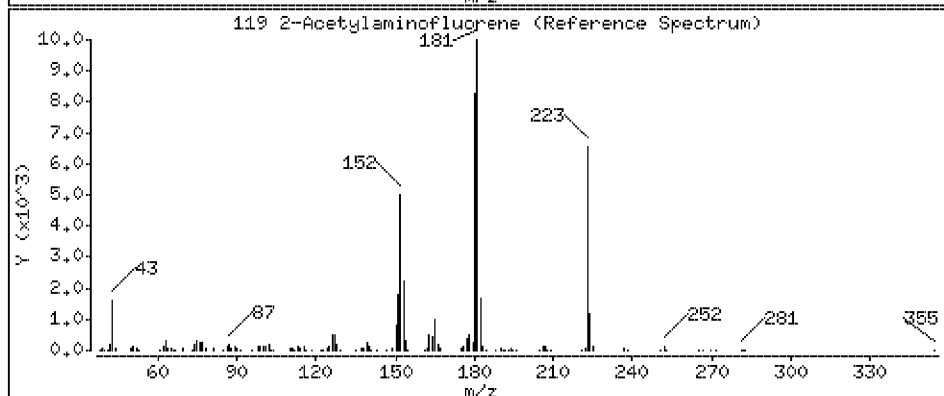
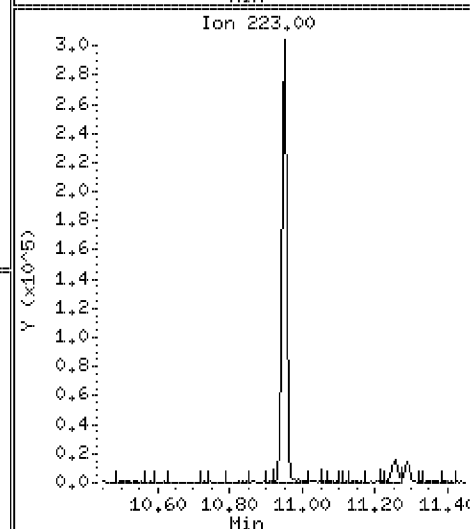
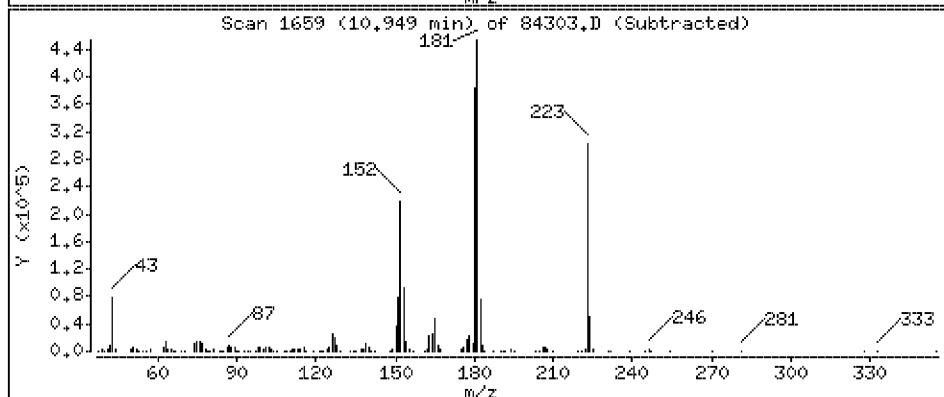
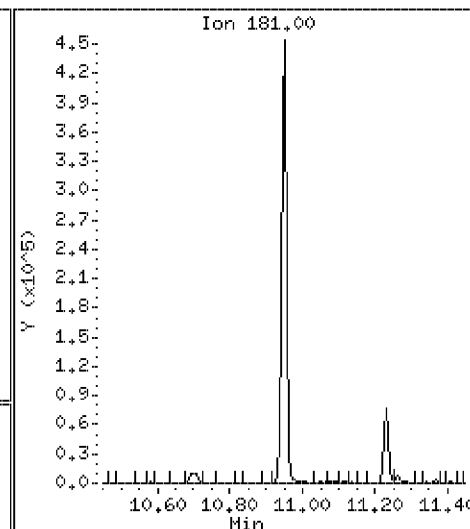
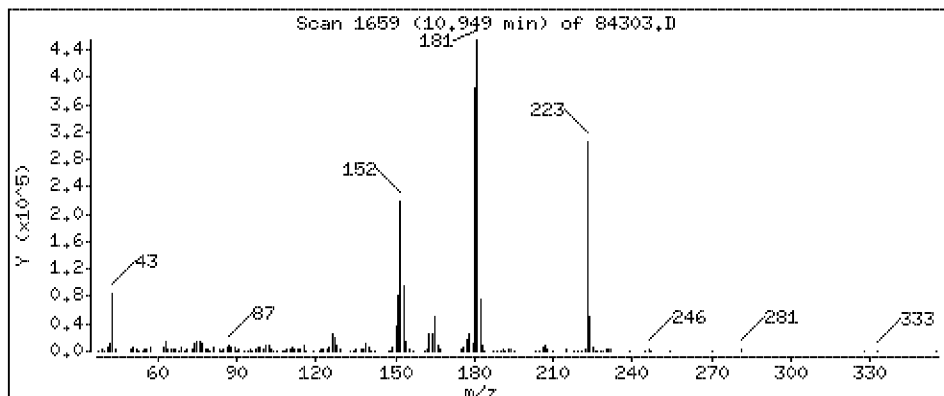
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

119 2-Acetylaminofluorene

Concentration: 1090 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

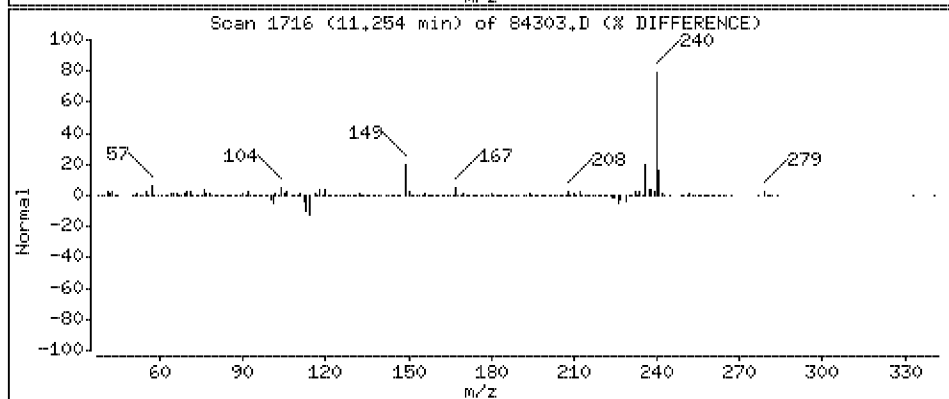
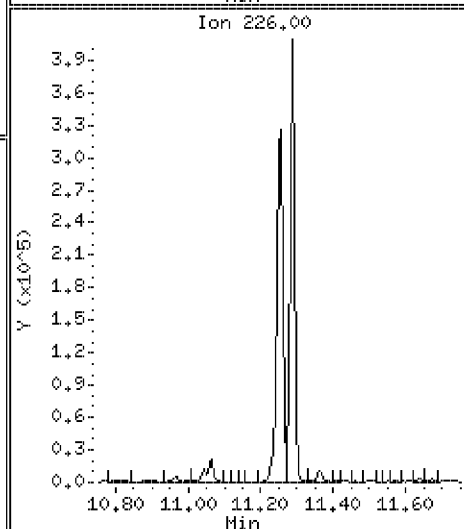
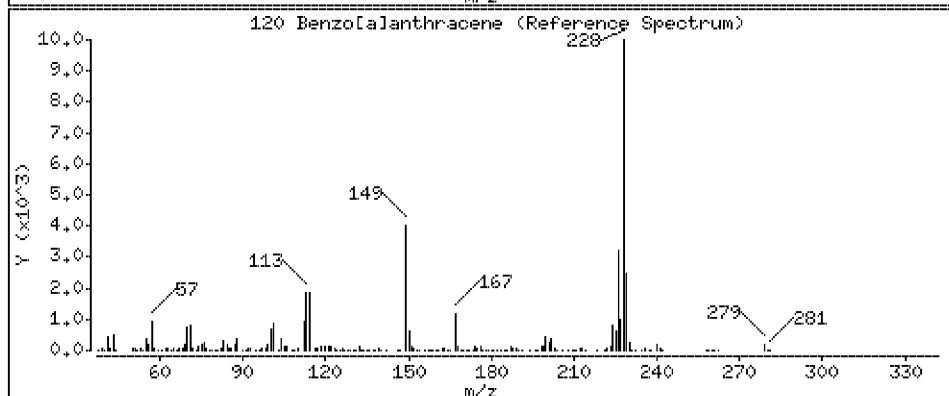
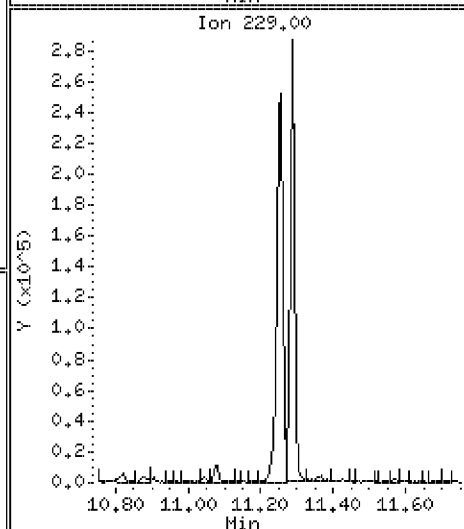
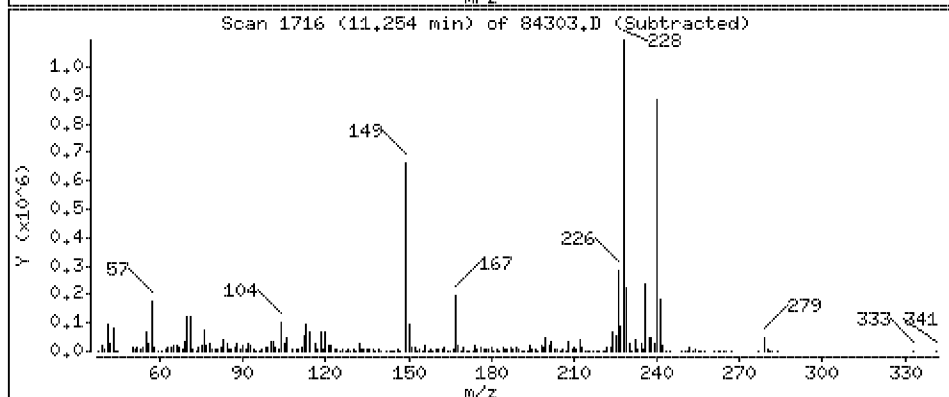
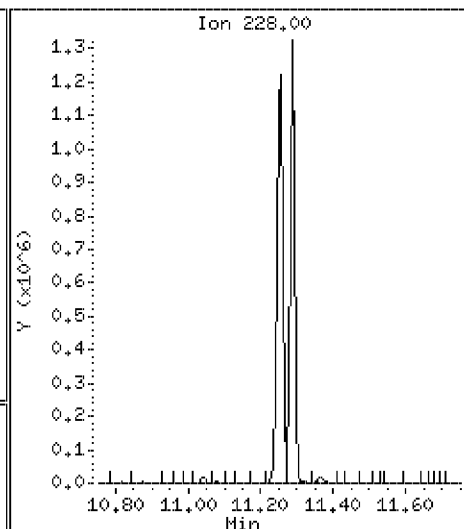
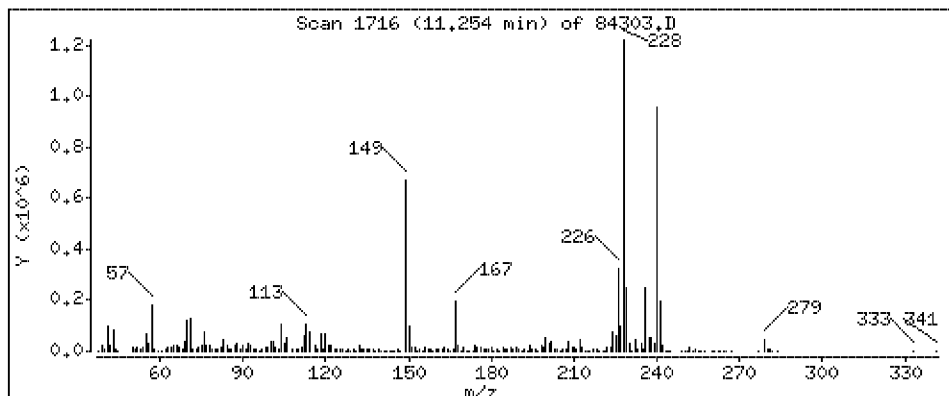
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

120 Benzo[*a*]anthracene

Concentration: 1450 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

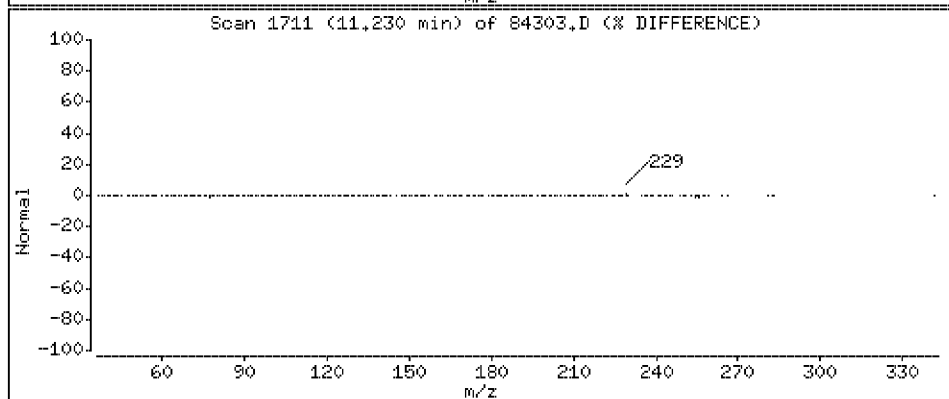
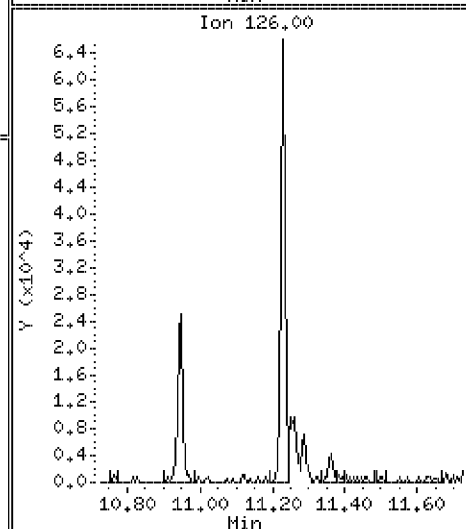
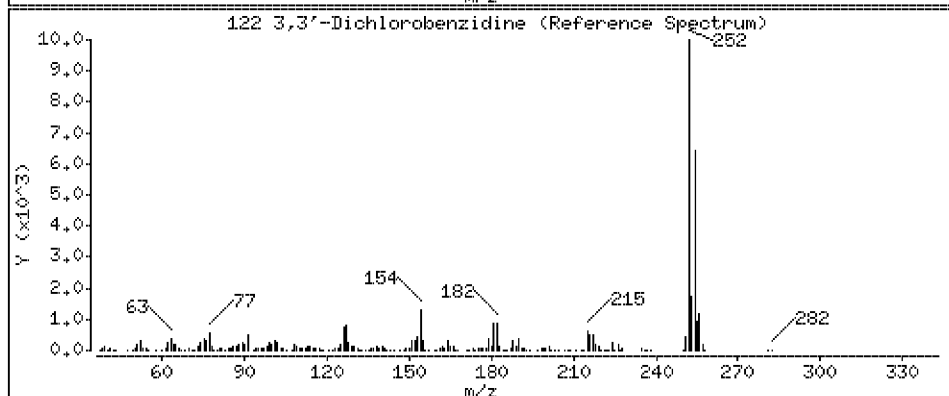
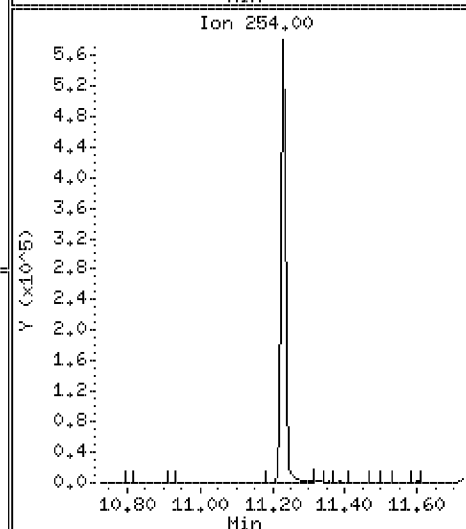
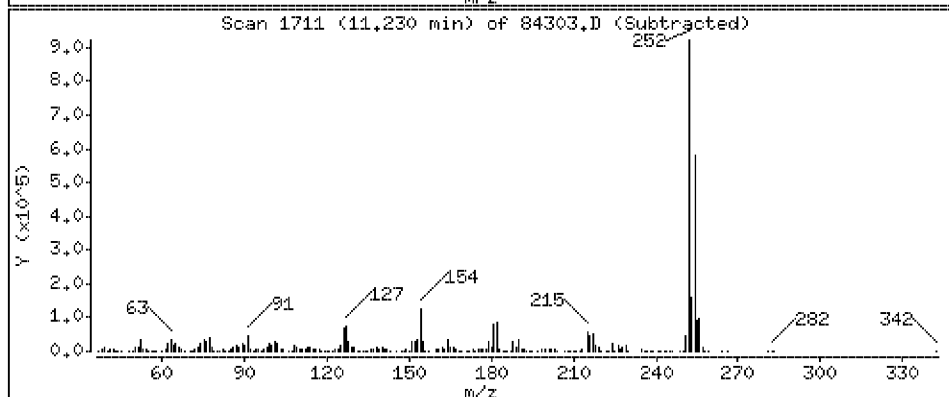
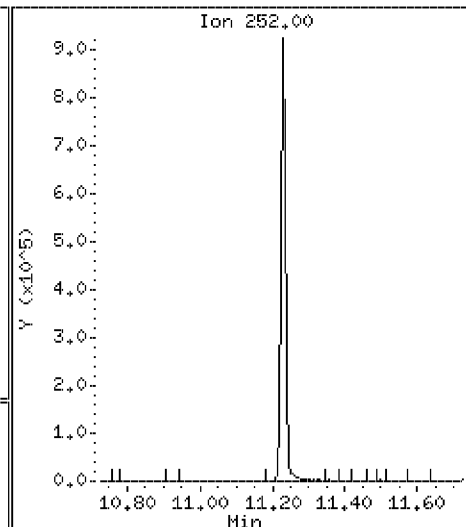
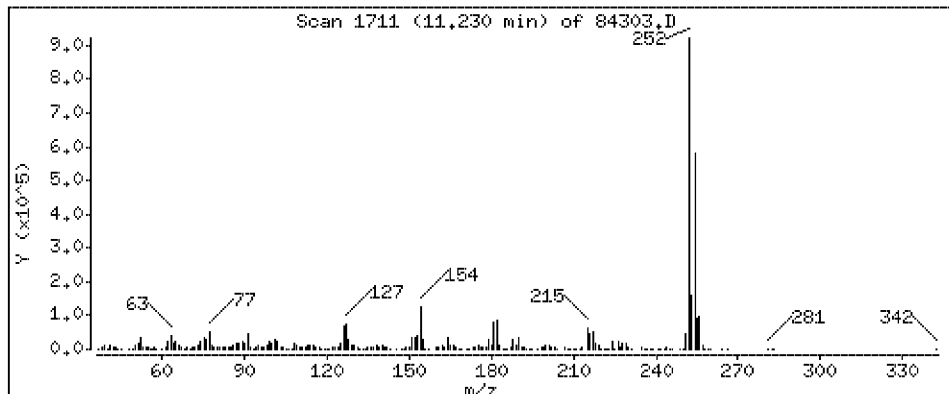
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

122 3,3'-Dichlorobenzidine

Concentration: 1870 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

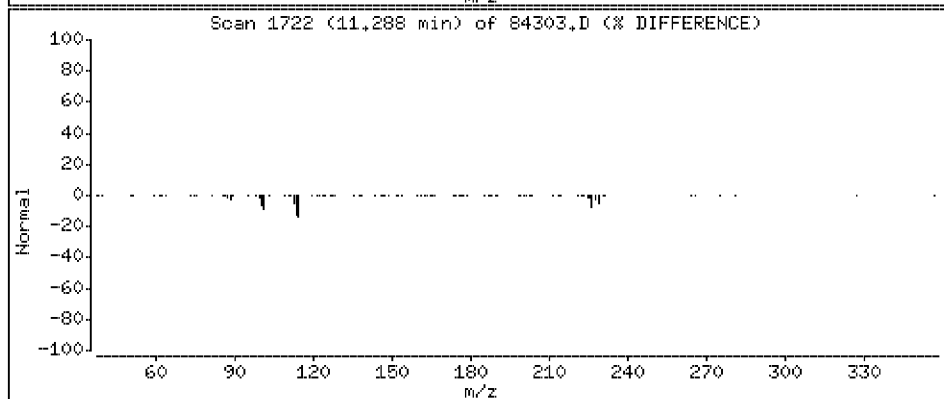
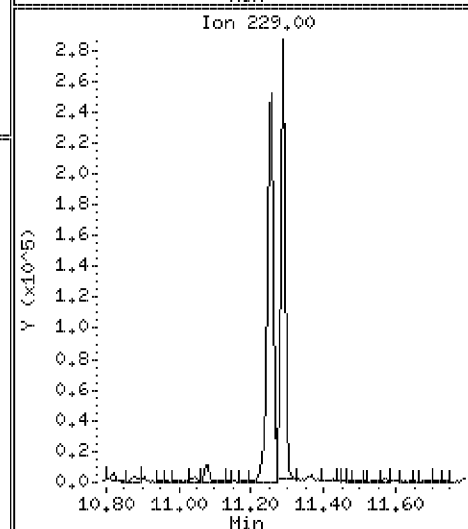
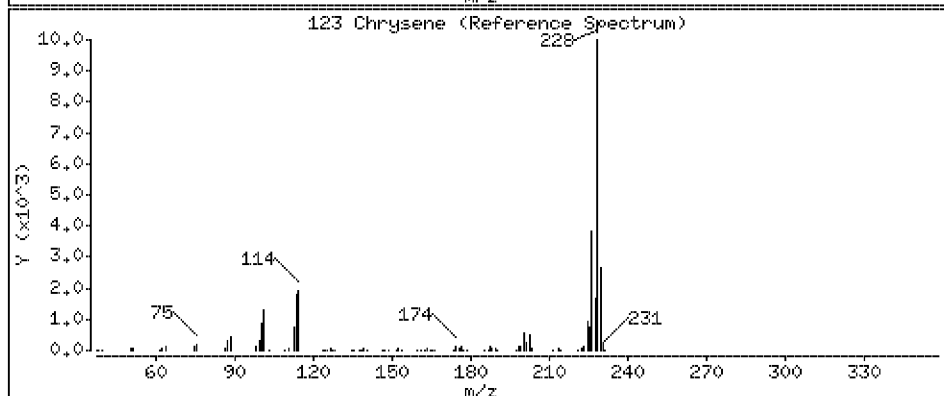
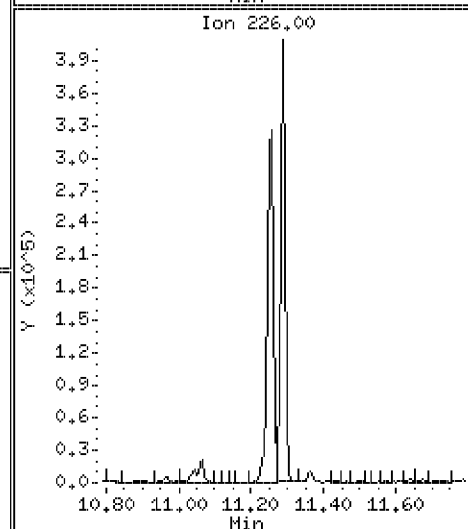
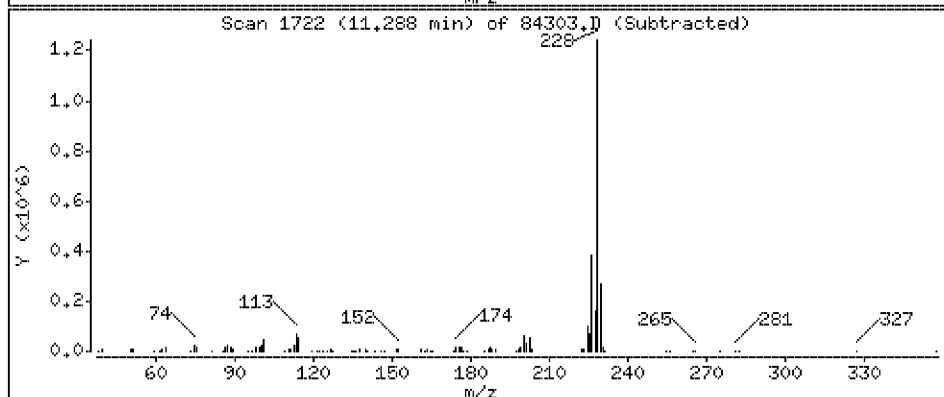
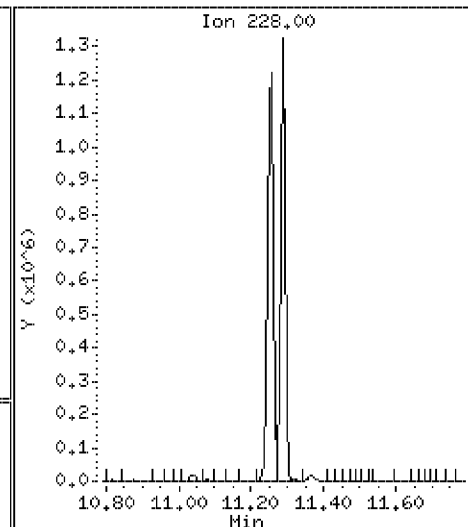
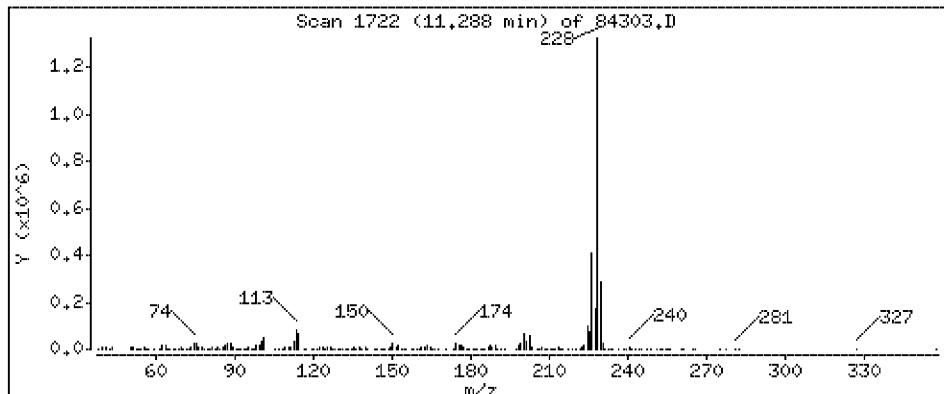
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

123 Chrysene

Concentration: 1400 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

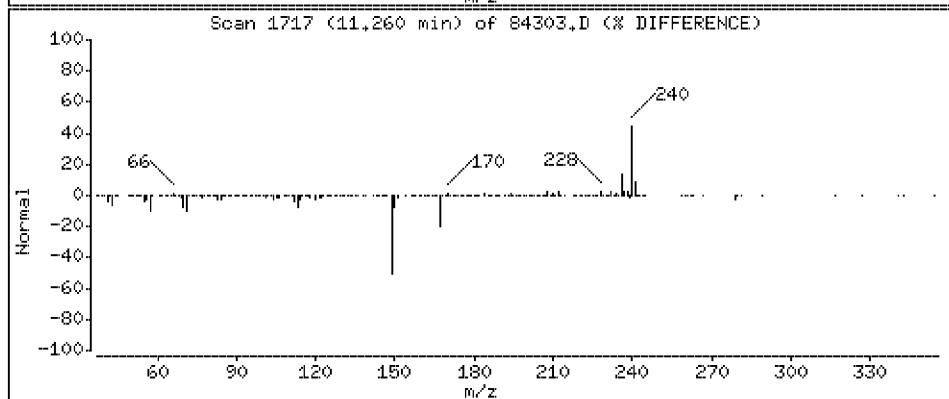
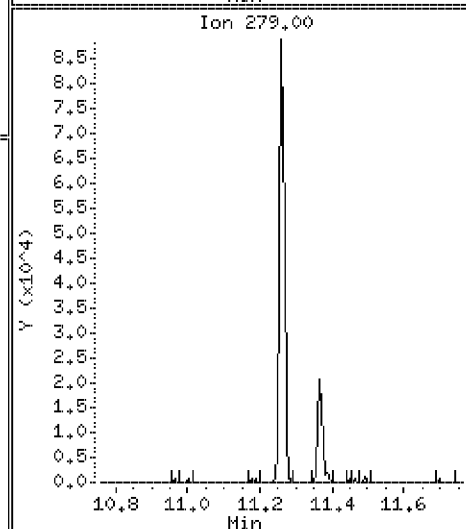
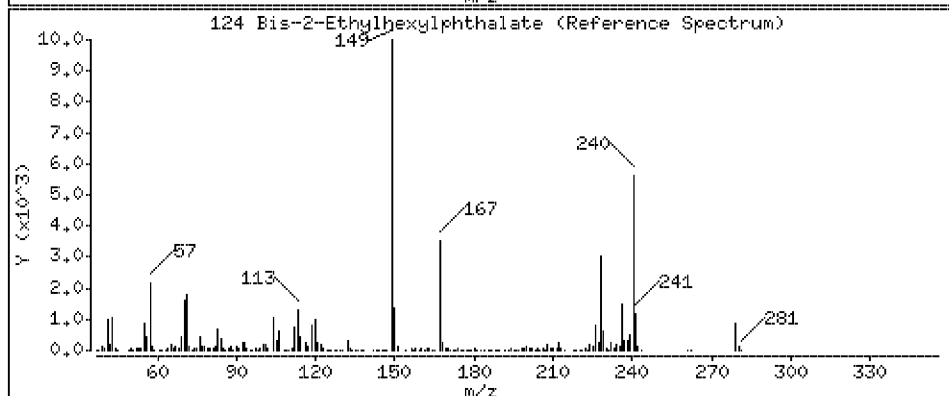
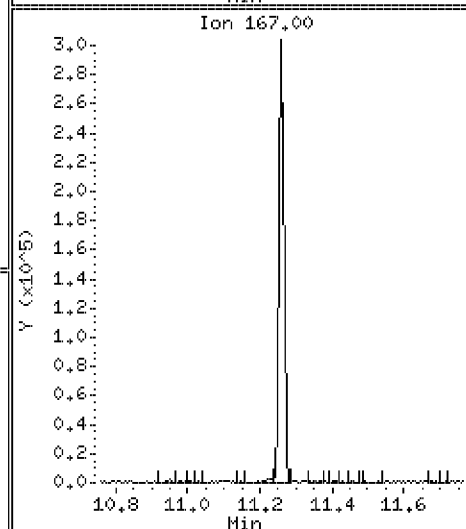
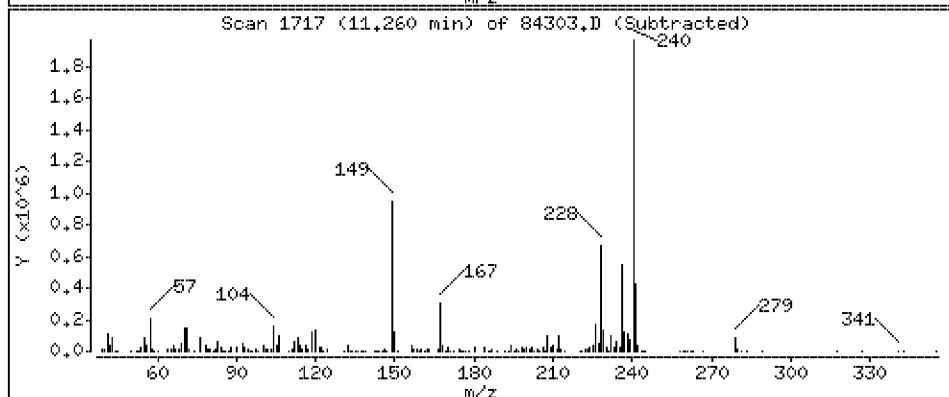
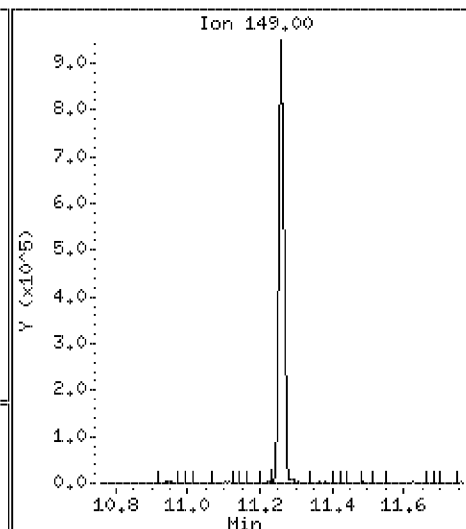
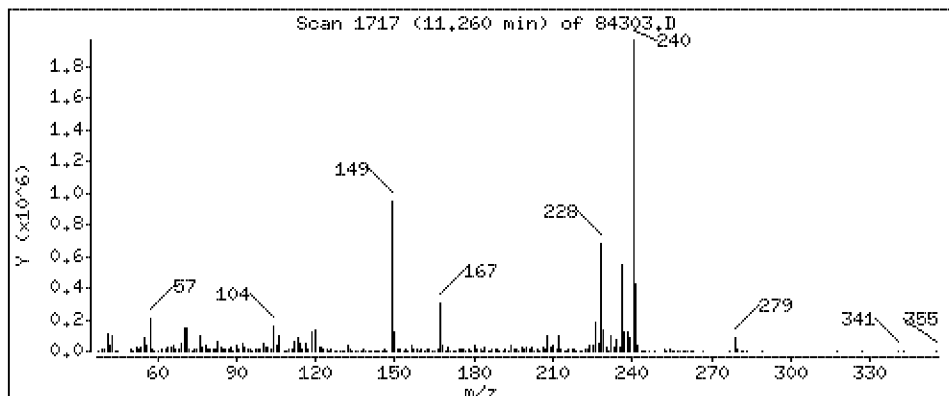
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

124 Bis-2-Ethylhexylphthalate

Concentration: 1330 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

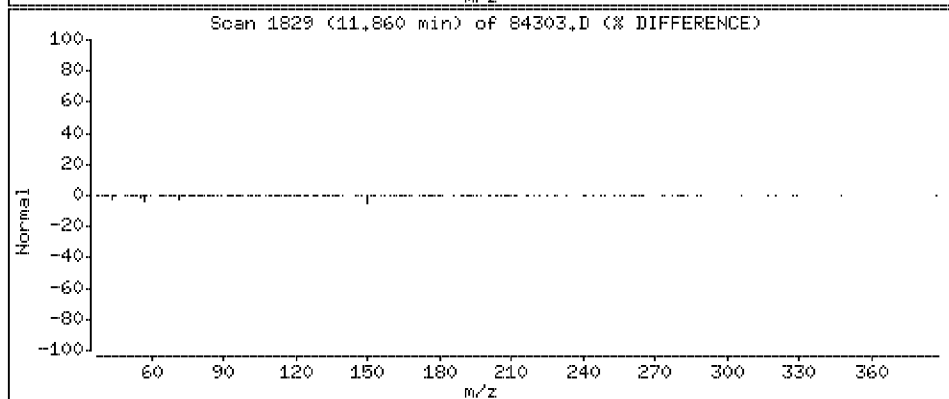
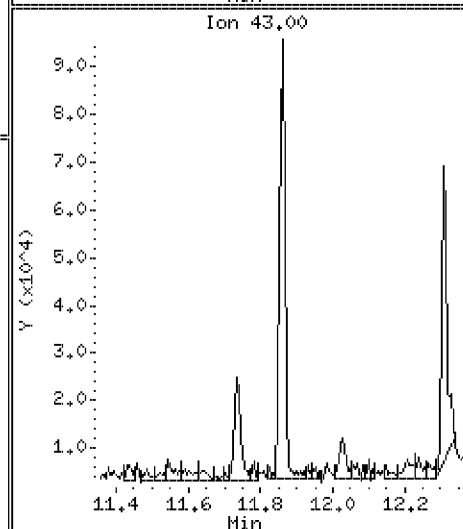
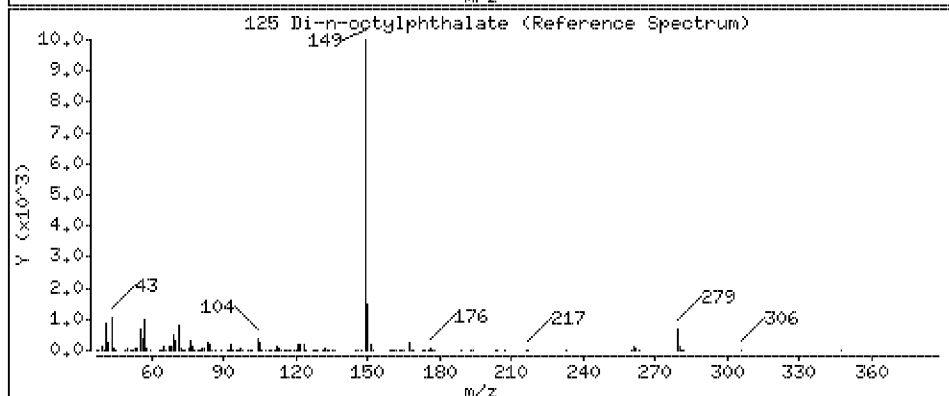
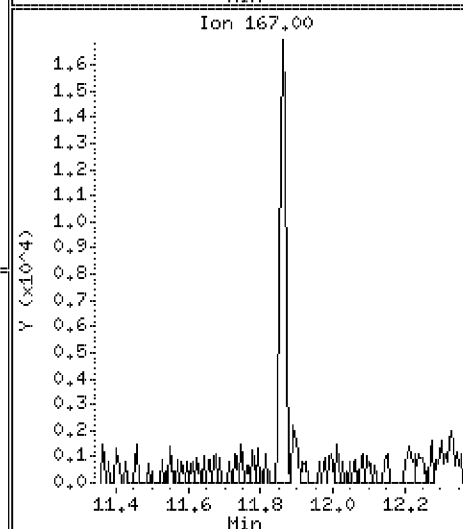
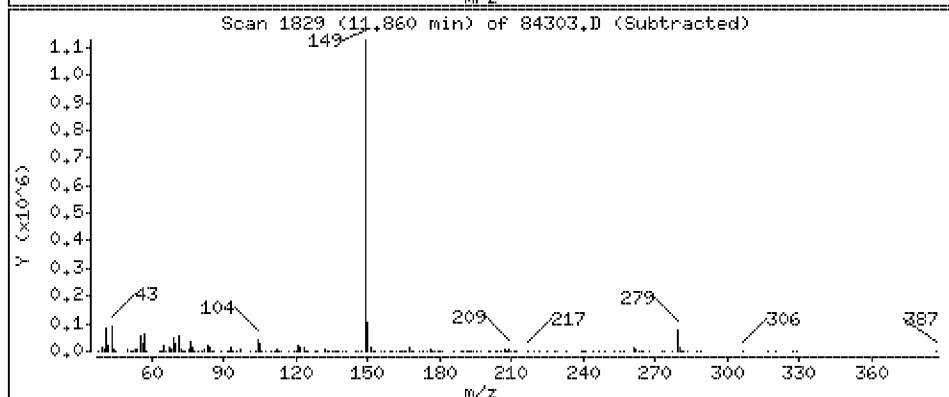
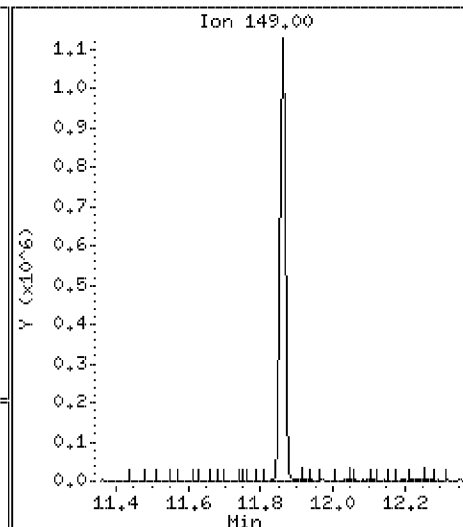
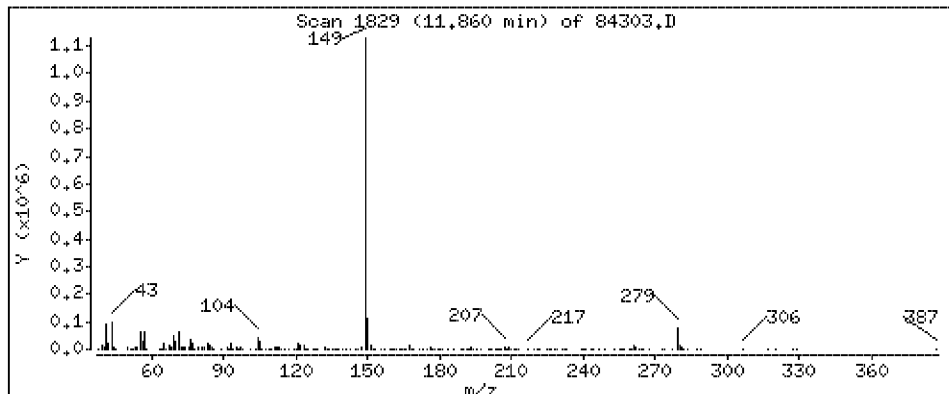
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

125 Di-n-octylphthalate

Concentration: 1280 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

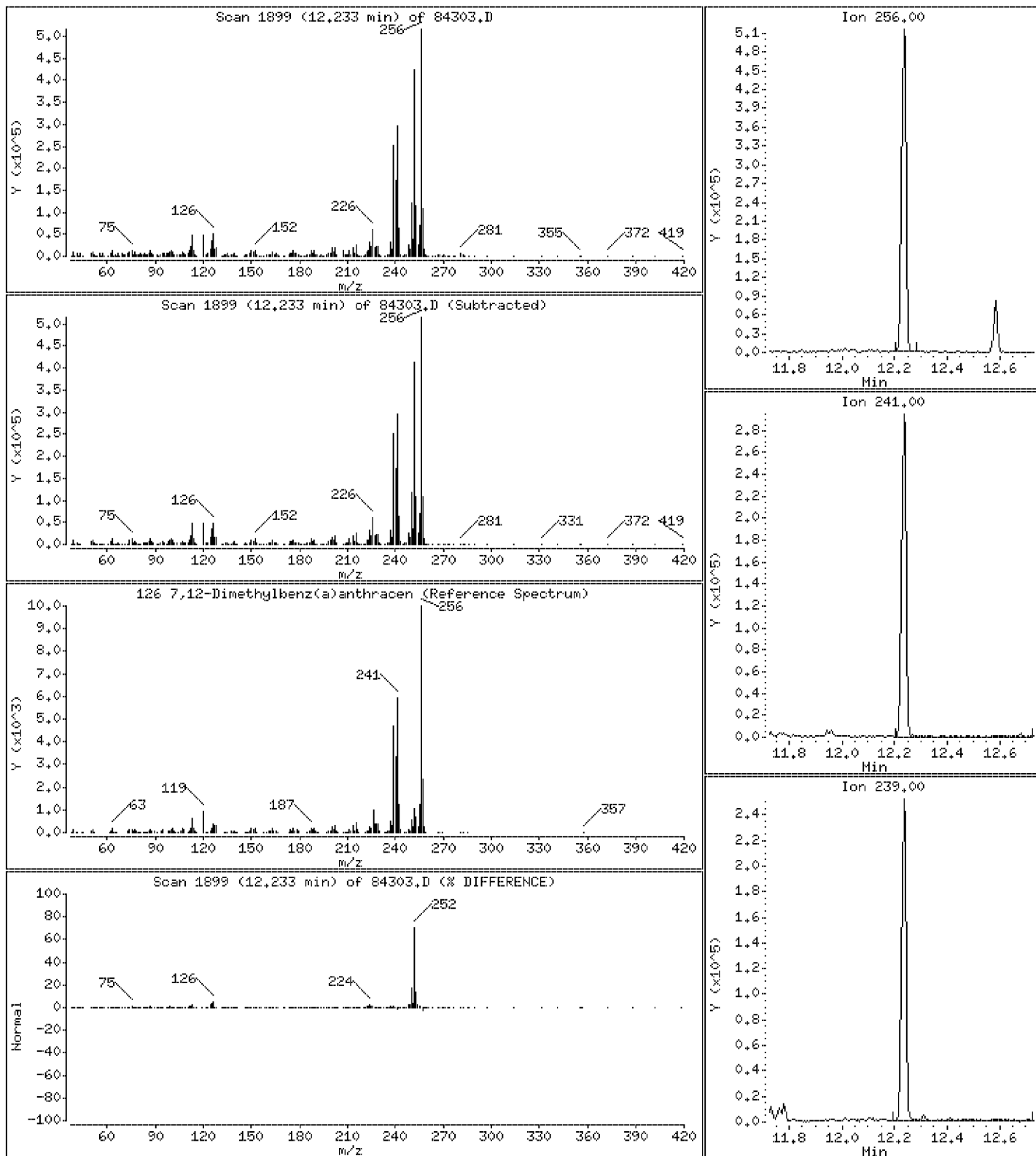
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

126 7,12-Dimethylbenz(a)anthracen

Concentration: 1060 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

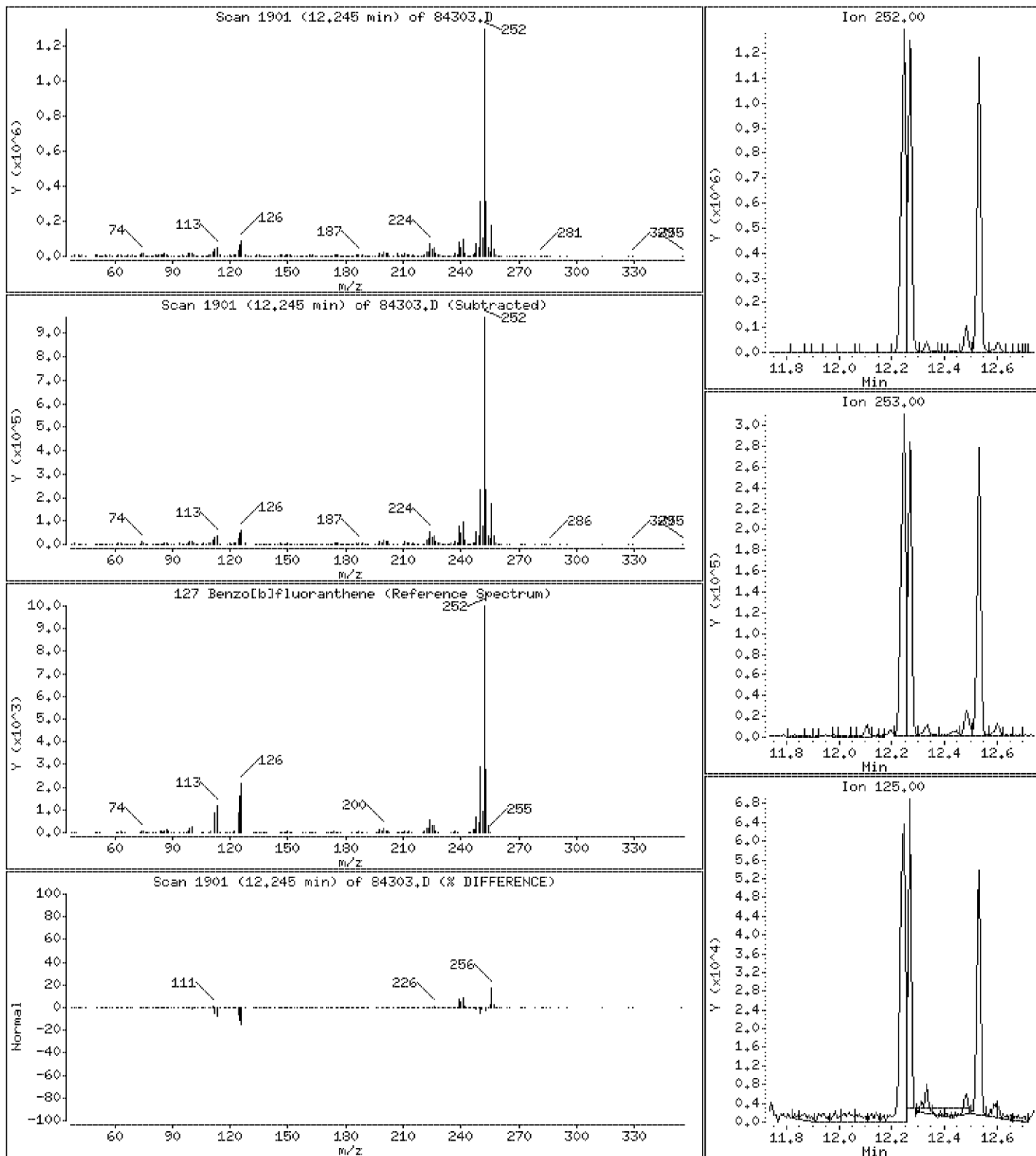
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

127 Benzo[b]fluoranthene

Concentration: 1640 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

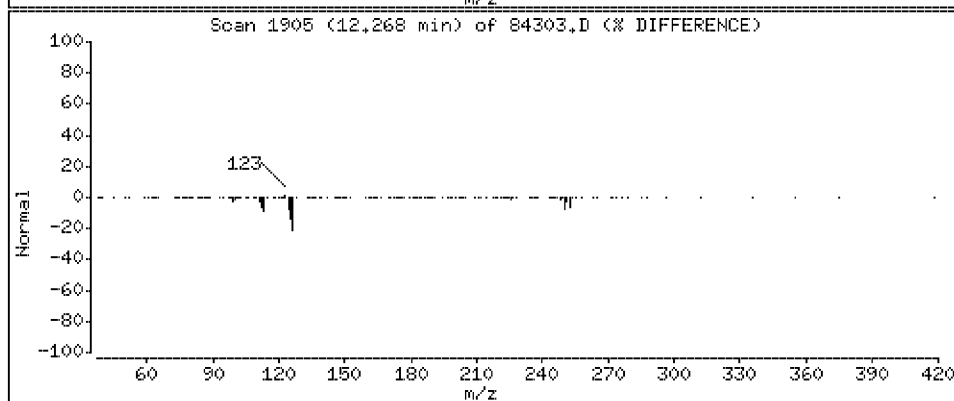
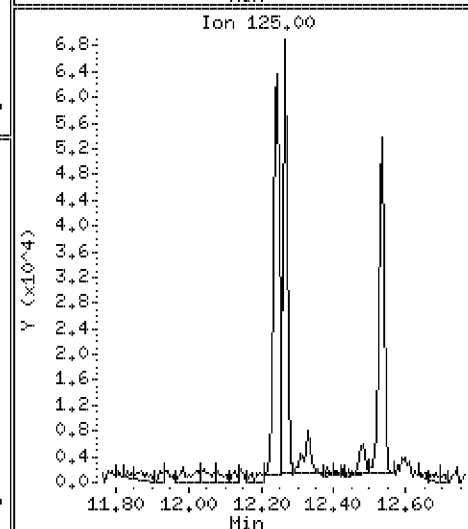
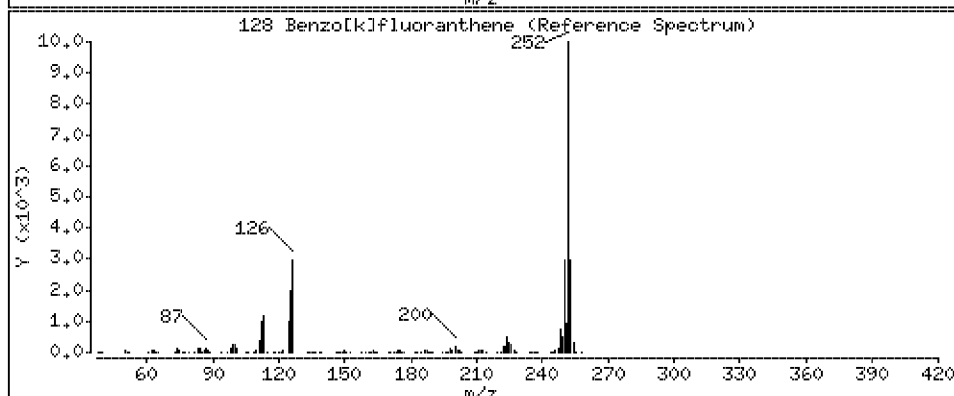
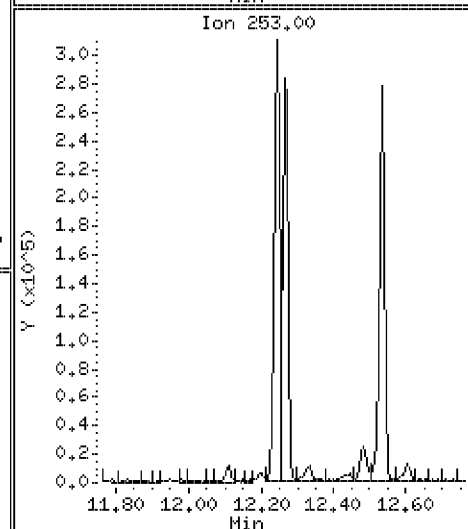
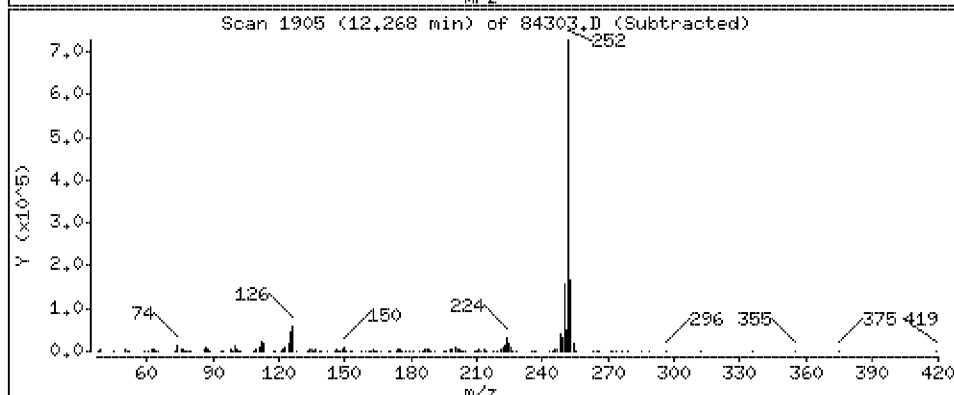
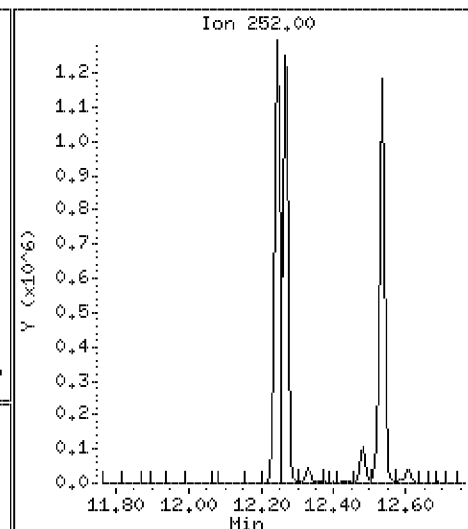
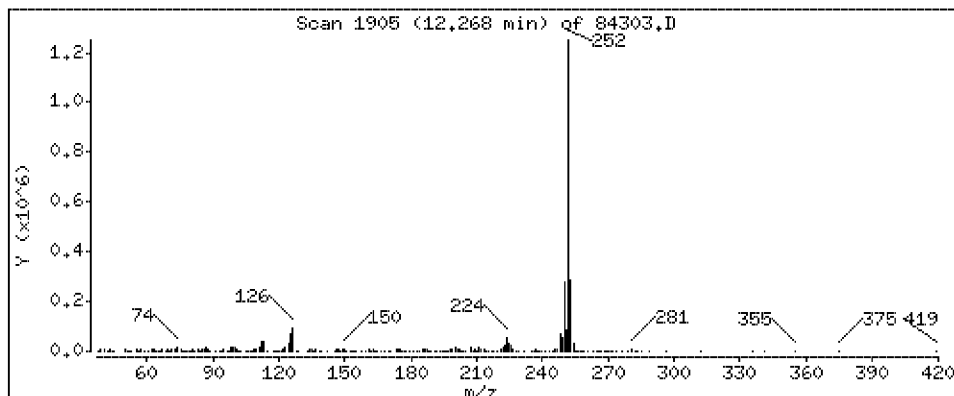
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

128 Benzo[k]fluoranthene

Concentration: 1260 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

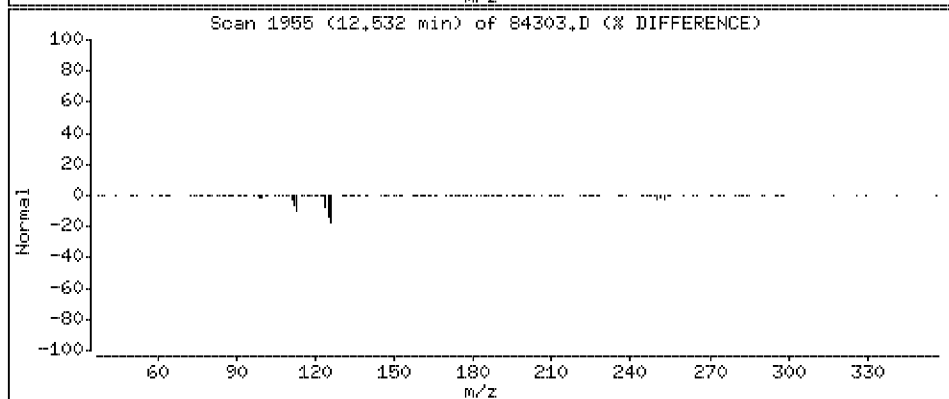
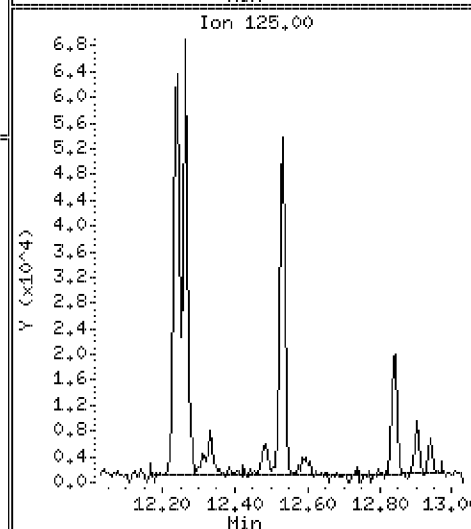
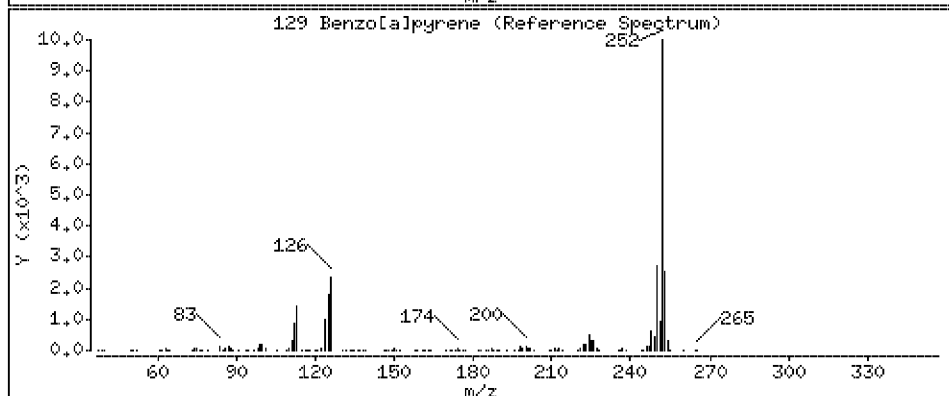
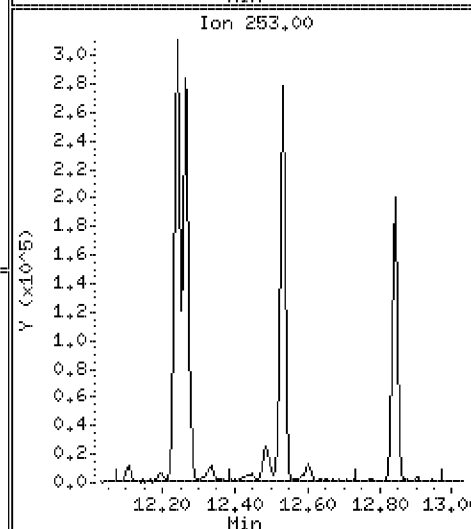
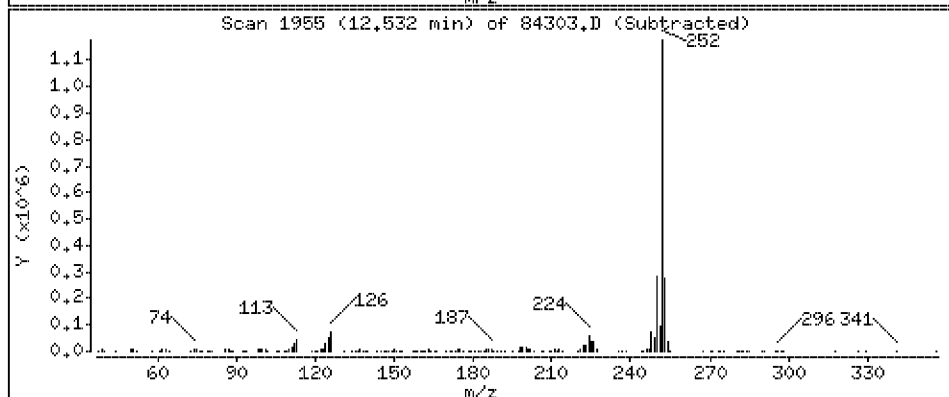
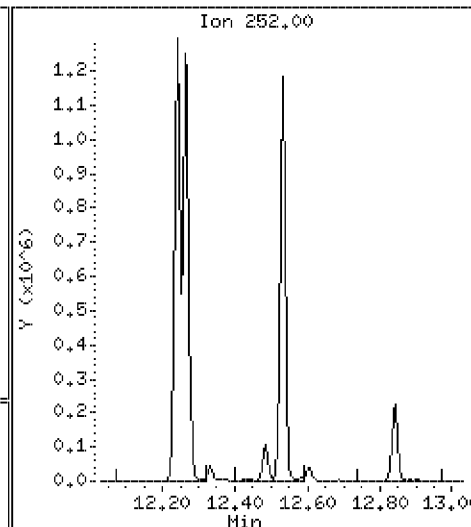
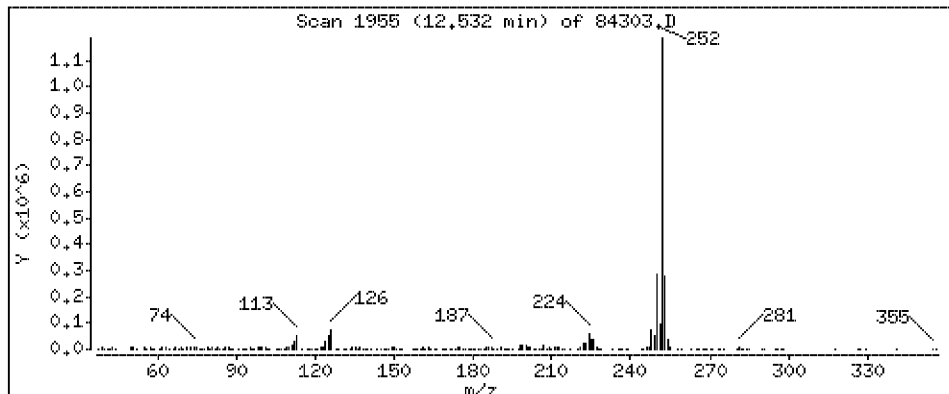
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

129 Benzo[ap]pyrene

Concentration: 1490 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

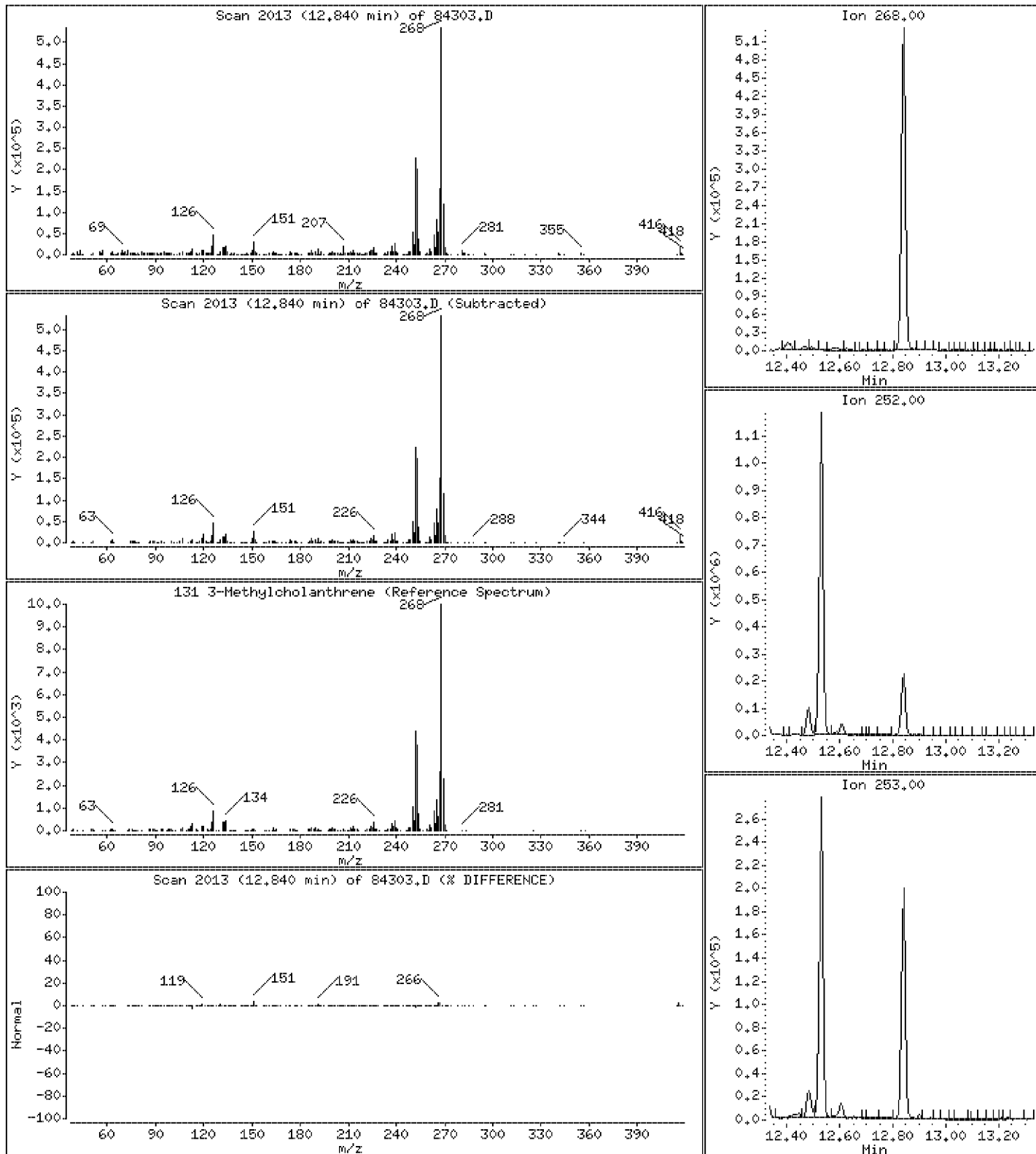
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

131 3-Methylcholanthrene

Concentration: 1080 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

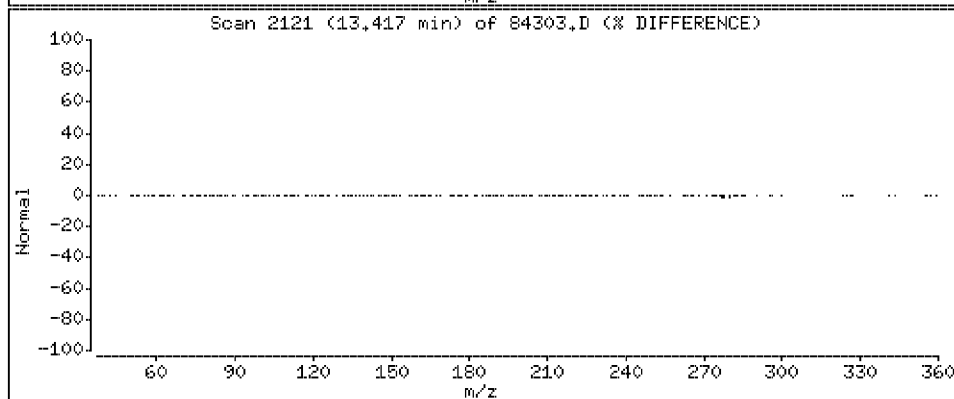
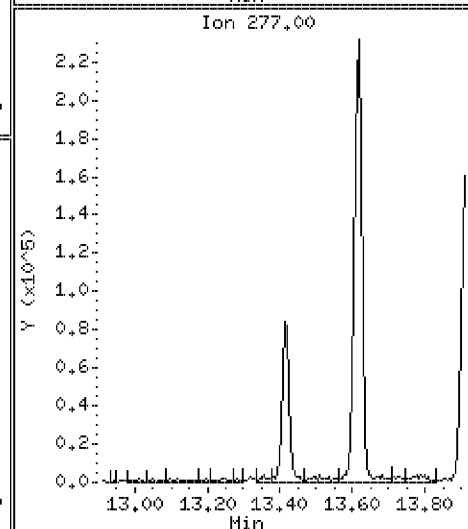
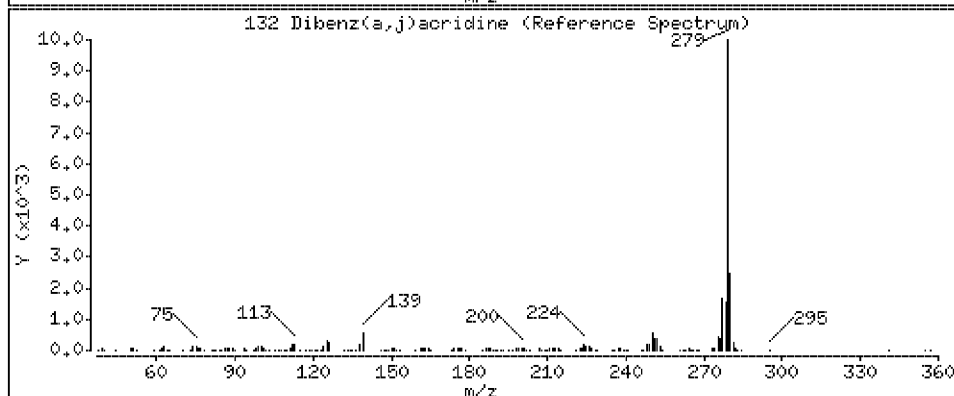
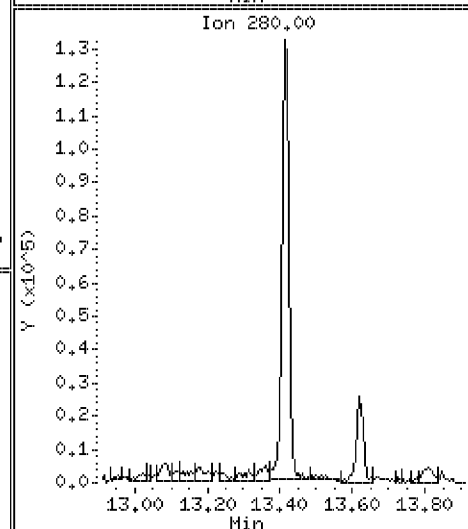
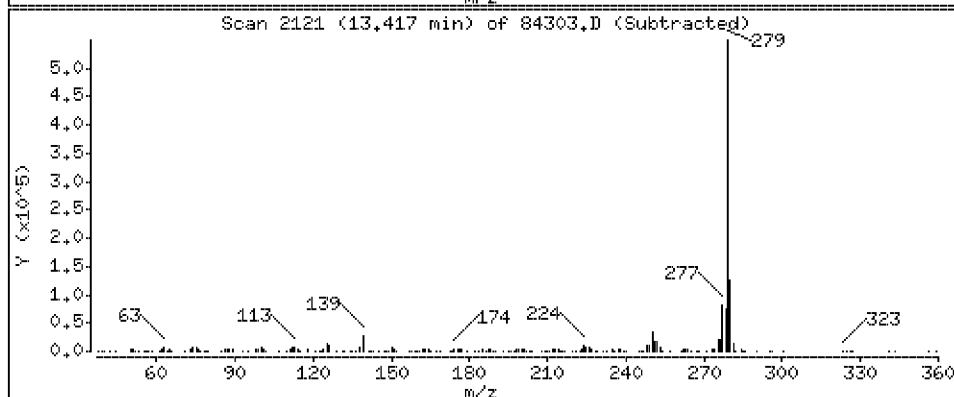
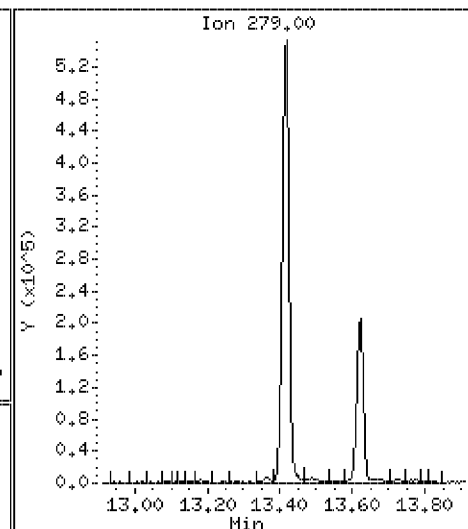
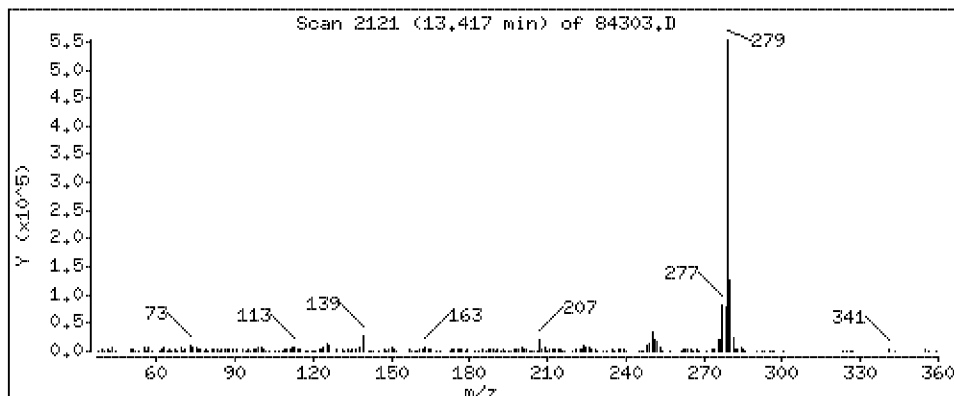
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

132 Dibenz(a,j)acridine

Concentration: 947 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

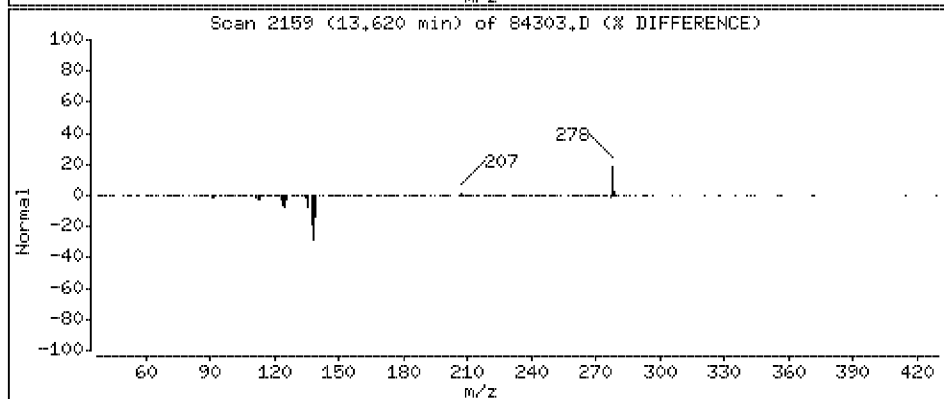
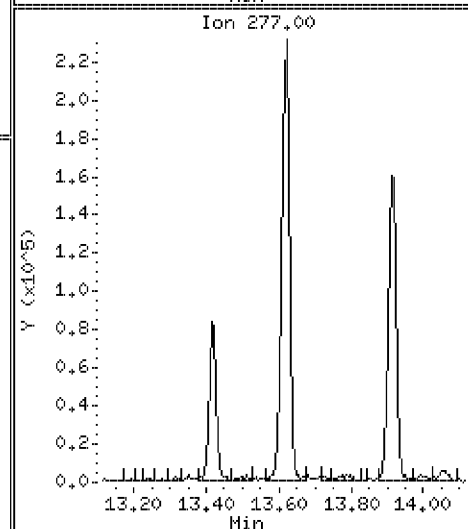
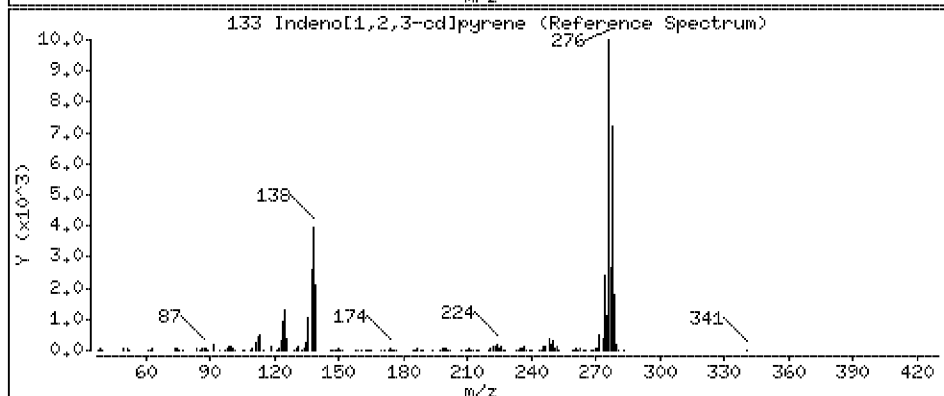
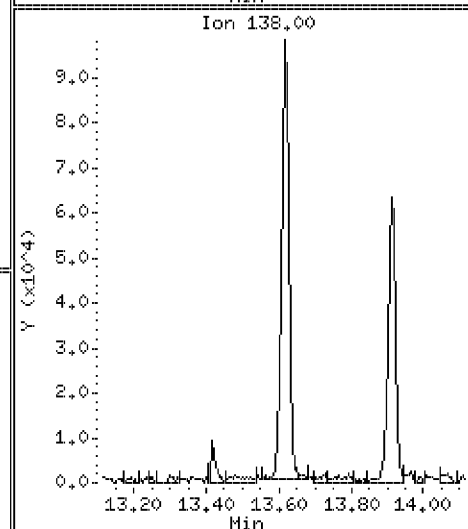
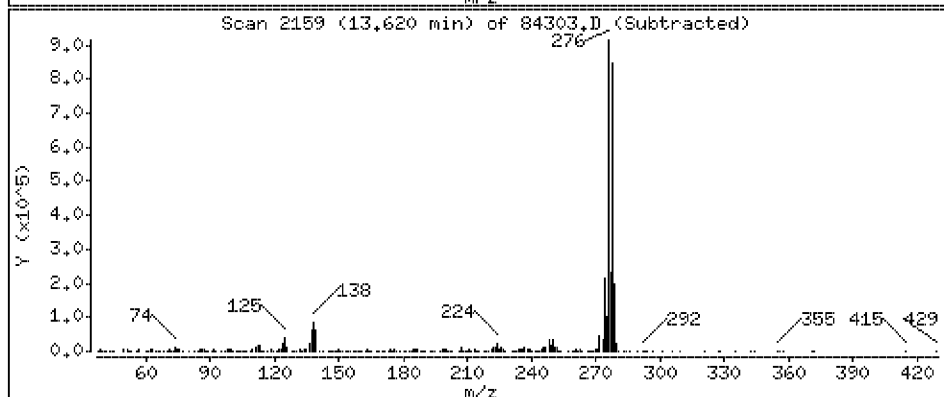
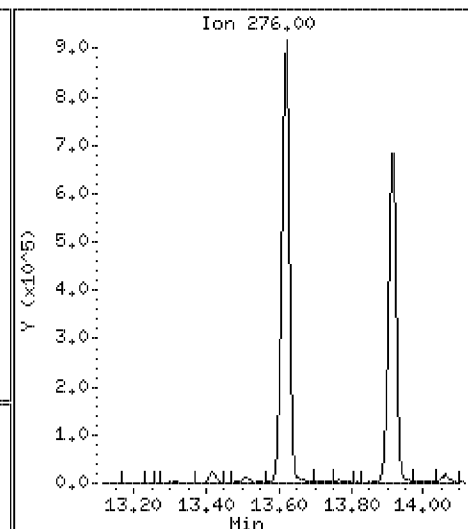
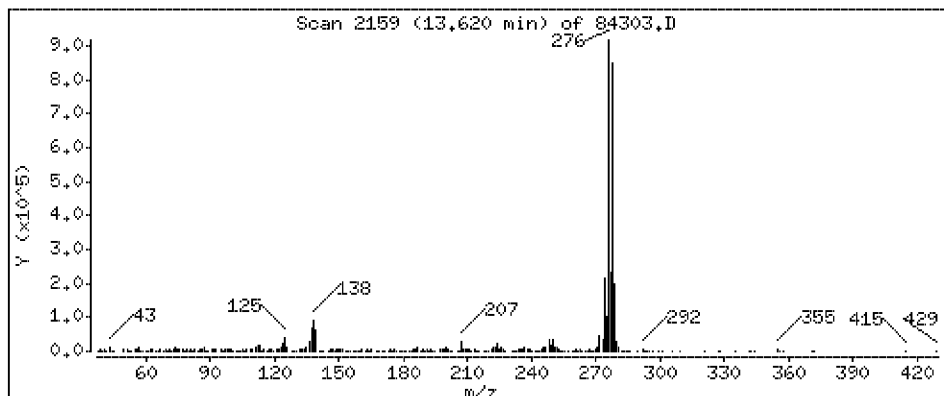
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

133 Indeno[1,2,3-cd]pyrene

Concentration: 1250 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

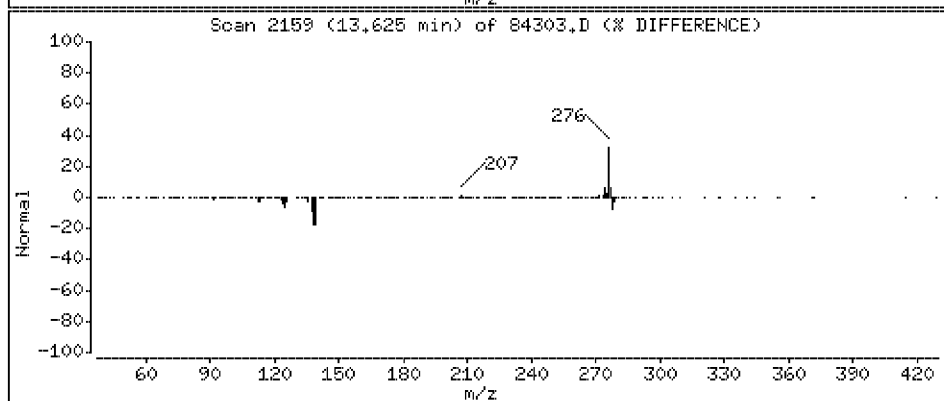
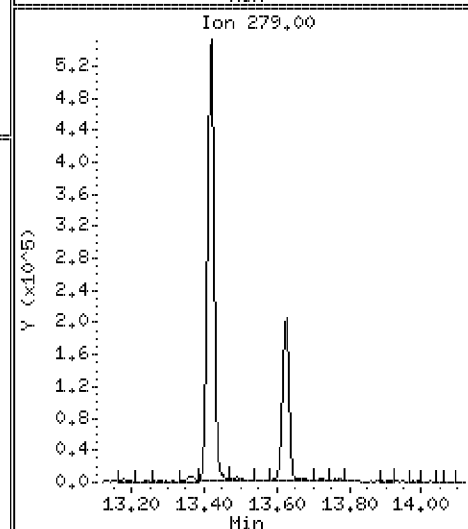
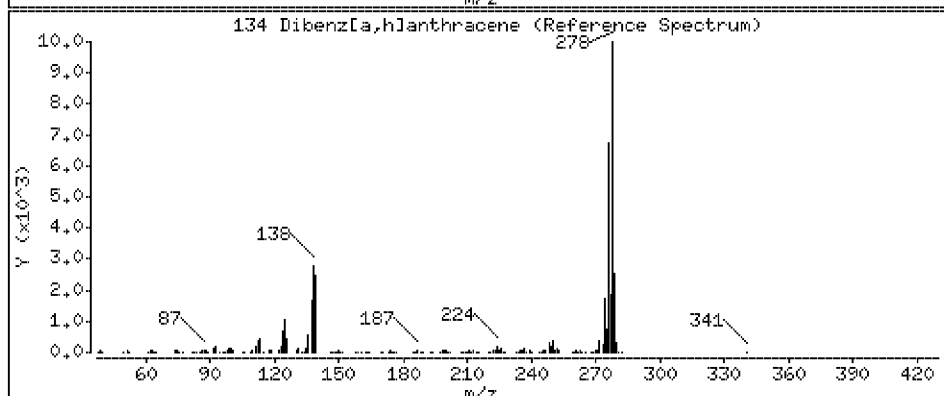
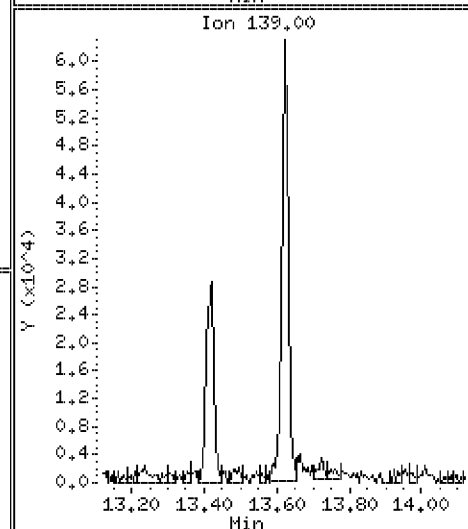
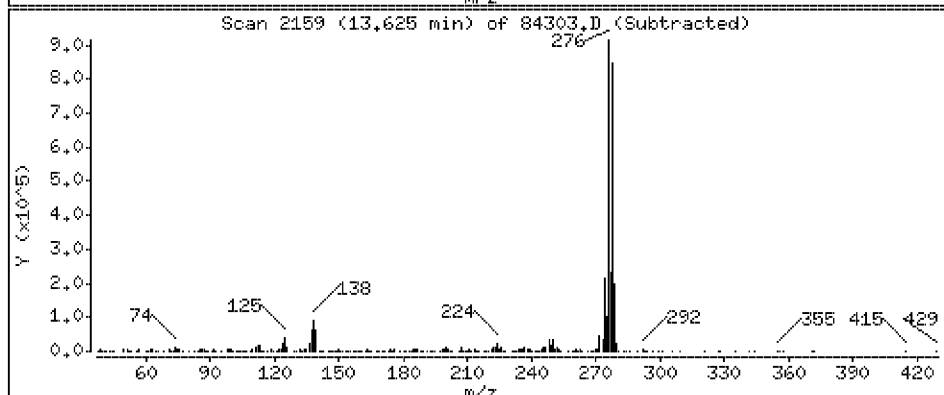
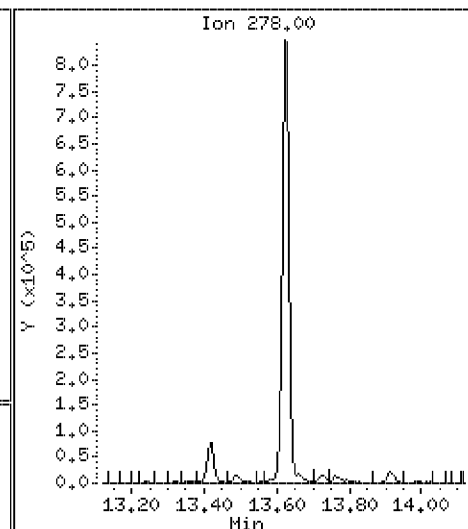
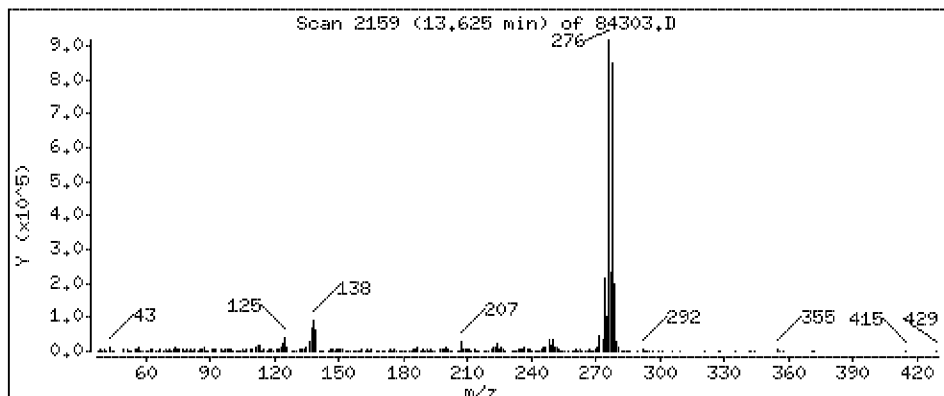
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

134 Dibenz[a,h]anthracene

Concentration: 1190 ug/kg



Date : 04-MAY-2012 13:46

Client ID: EPAFMC-SD-07SD

Instrument: smsd03.i

Sample Info: SW350584303

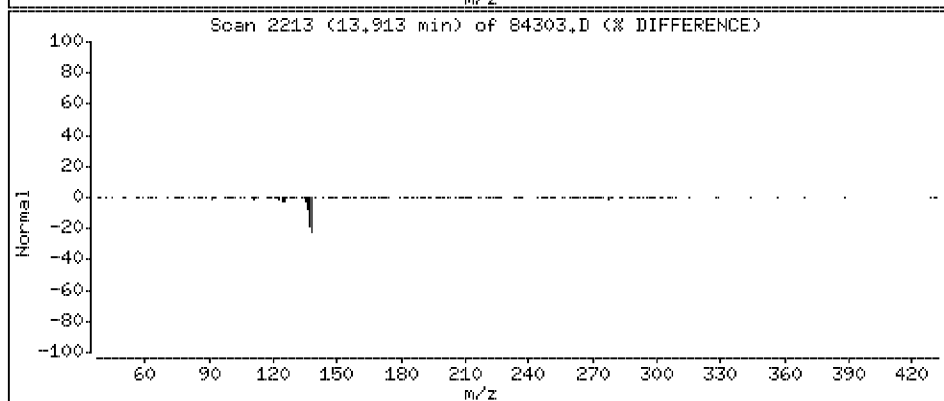
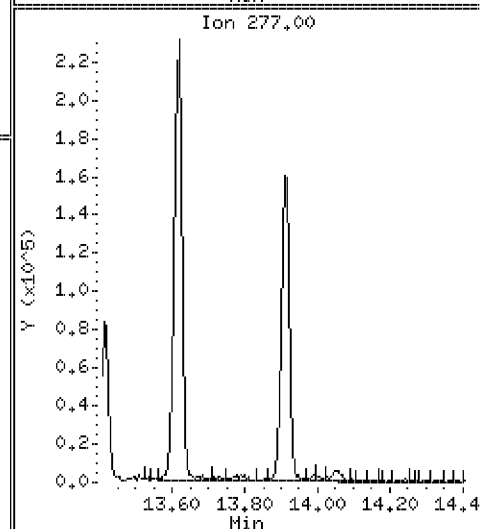
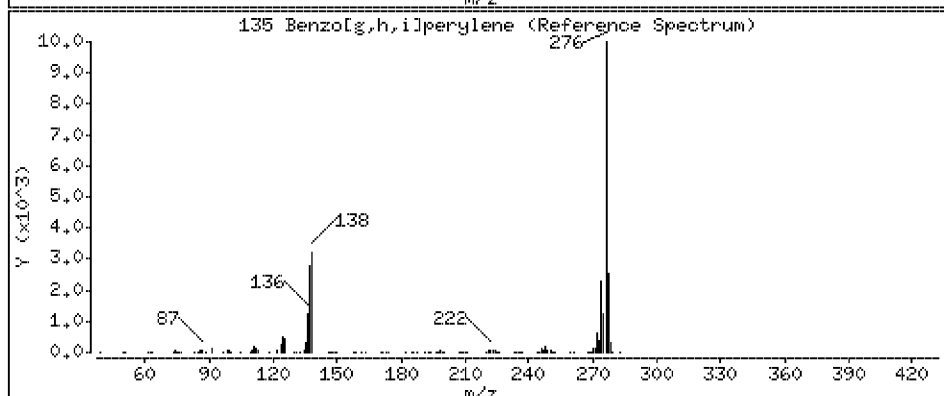
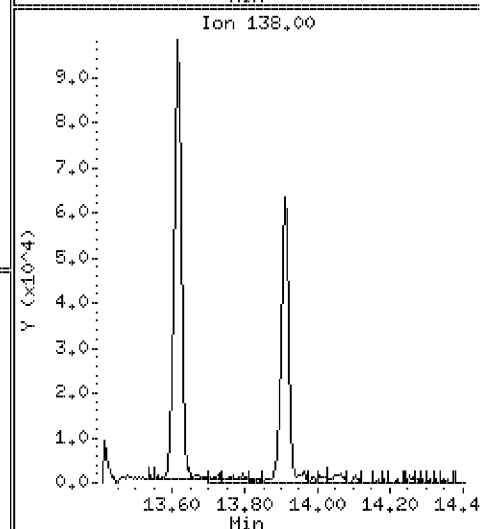
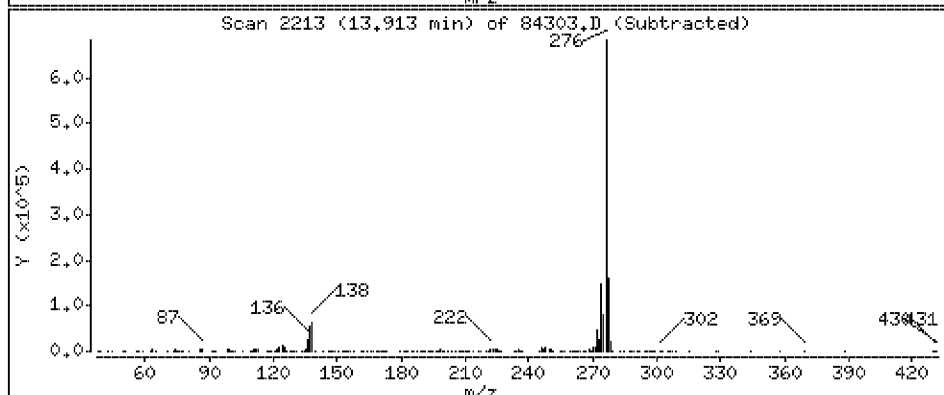
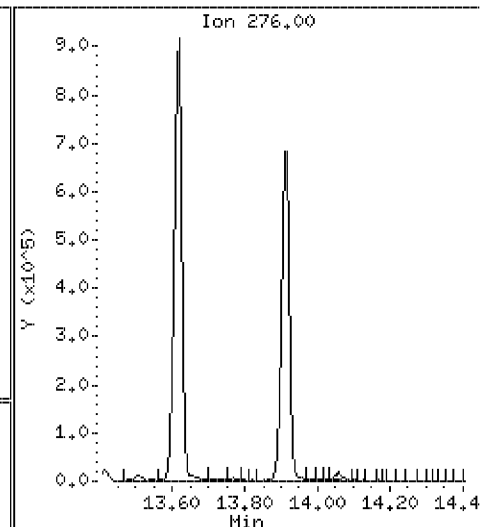
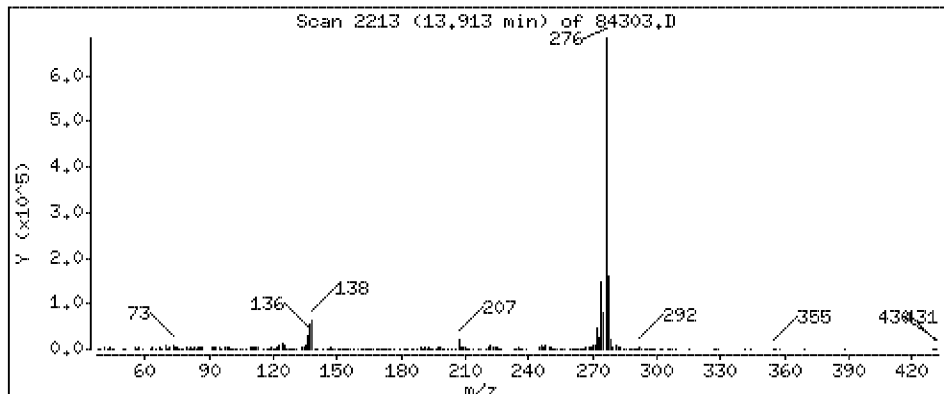
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

135 Benzo[*g,h,i*]perylene

Concentration: 1220 ug/kg



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3050412.b\84304.D
 Lab Smp Id: 350584304 Client Smp ID: EPAFMC-SD-08
 Inj Date : 04-MAY-2012 14:09 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : SW350584304
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3050412.b\8270bcs.m
 Meth Date : 07-May-2012 17:35 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 18:17 Cal File: AP9CAL4.D
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.390	Weight of sample extracted (g)
M	2.900	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.353	4.352 (1.000)		152	283897	40.0000		80.00- 120.00	100.00	
4.353	4.352 (1.000)		115	172087			31.12- 91.12	60.62	
4.353	4.352 (1.000)		150	423673			117.02- 177.02	149.23	
* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.514	5.513 (1.000)		136	942848	40.0000		80.00- 120.00	100.00	
5.513	5.513 (1.000)		68	50841			0.00- 35.11	5.39	
* 70 Acenaphthene-d10 CAS #: 15067-26-2									
7.209	7.208 (1.000)		164	669831	40.0000		80.00- 120.00	100.00	
7.209	7.208 (1.000)		162	637557			66.36- 126.36	95.18	
7.209	7.208 (1.000)		160	290151			14.03- 74.03	43.32	
* 100 Phenanthrene-d10 CAS #: 1517-22-2									
8.664	8.665 (1.000)		188	1330186	40.0000		80.00- 120.00	100.00	
8.663	8.665 (1.000)		94	82237			0.00- 36.25	6.18	
8.663	8.665 (1.000)		80	99119			0.00- 37.67	7.45	
* 121 Chrysene-d12 CAS #: 1719-03-5									
11.260	11.259 (1.000)		240	1834266	40.0000		80.00- 120.00	100.00	

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
* 121 Chrysene-d12 (continued)									
11.259	11.259	(1.000)	120	63209			0.00-	34.90	3.45
11.260	11.259	(1.000)	236	483124			0.00-	56.56	26.34

* 130 Perylene-d12						CAS #: 1520-96-3			
12.586	12.576	(1.000)	264	1805520	40.0000		80.00-	120.00	100.00
12.586	12.576	(1.000)	260	440492			0.00-	54.67	24.40
12.586	12.576	(1.000)	265	423500			0.00-	53.09	23.46

Date : 04-MAY-2012 14:09

Client ID: EPAFMC-SD-08

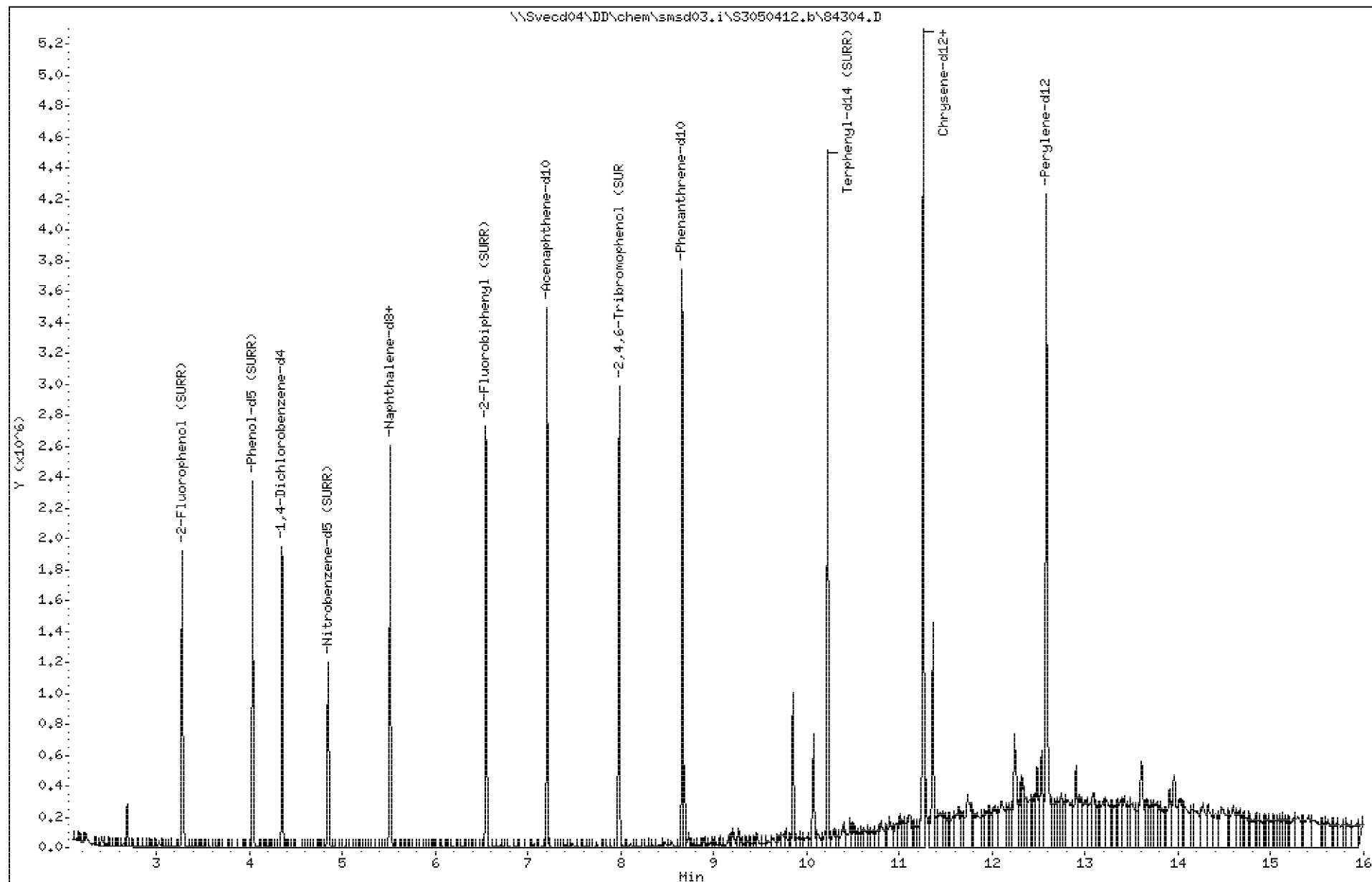
Sample Info: SN350584304

Instrument: smsd03.i

Operator: PEL

Column diameter: 0.25

Column phase: HPMS-5



Date : 04-MAY-2012 14:09

Client ID: EPAFMC-SD-08

Instrument: smsd03.i

Sample Info: SW350584304

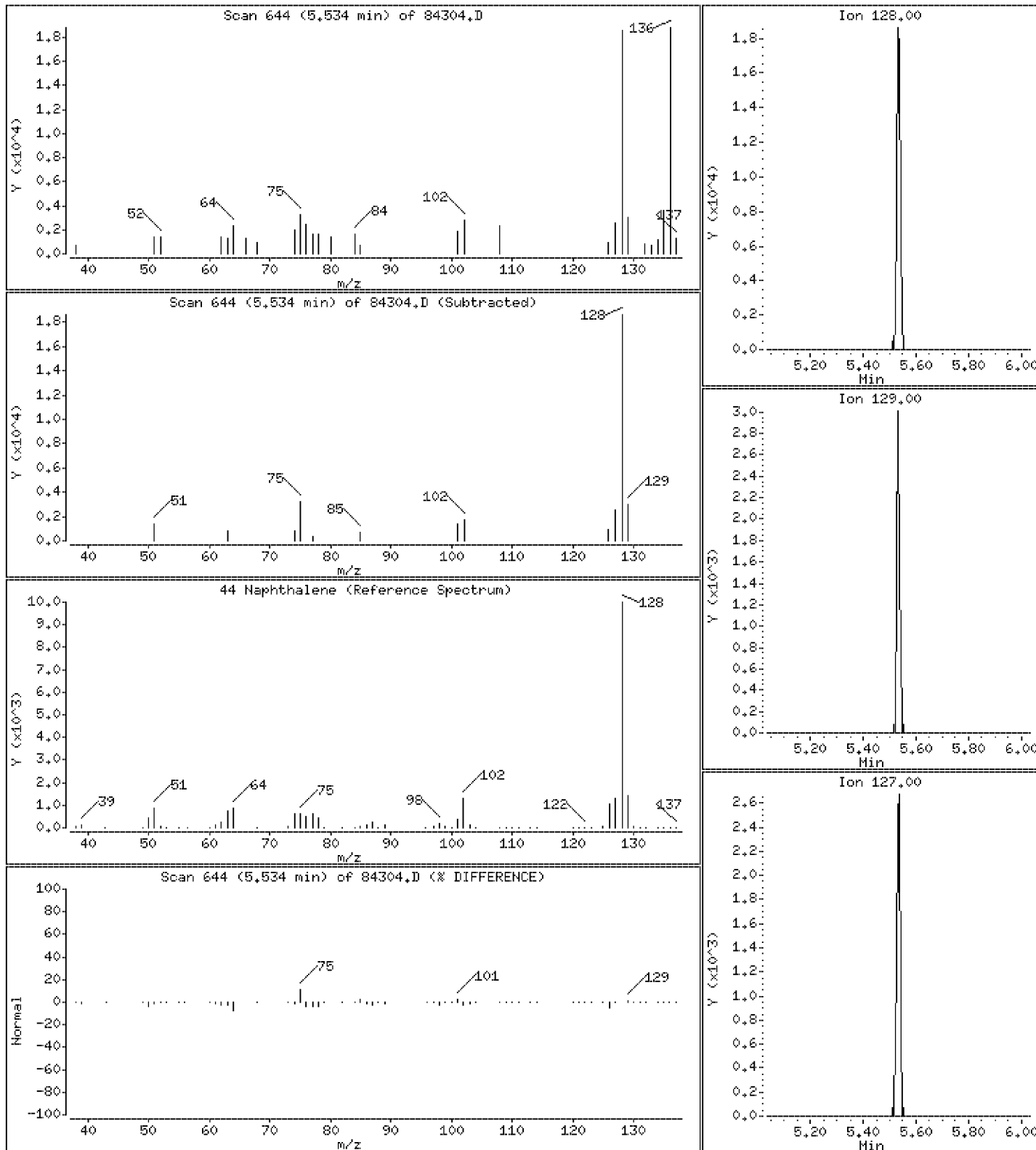
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

44 Naphthalene

Concentration: 29.4 ug/kg



Date : 04-MAY-2012 14:09

Client ID: EPAFMC-SD-08

Instrument: smsd03.i

Sample Info: SW350584304

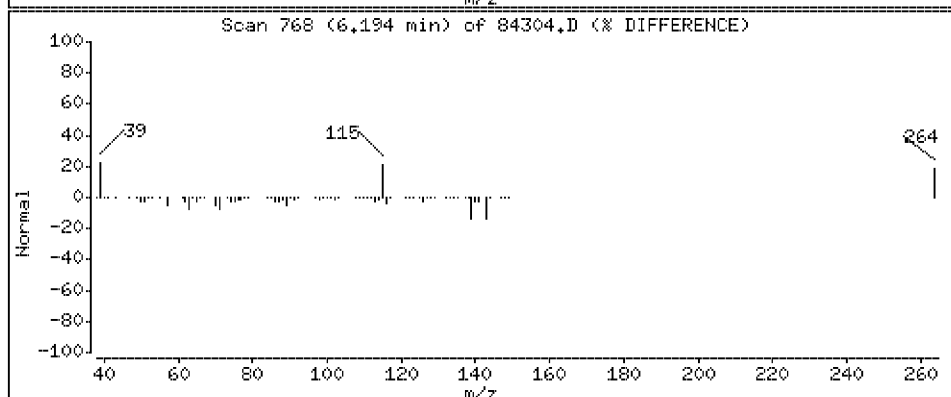
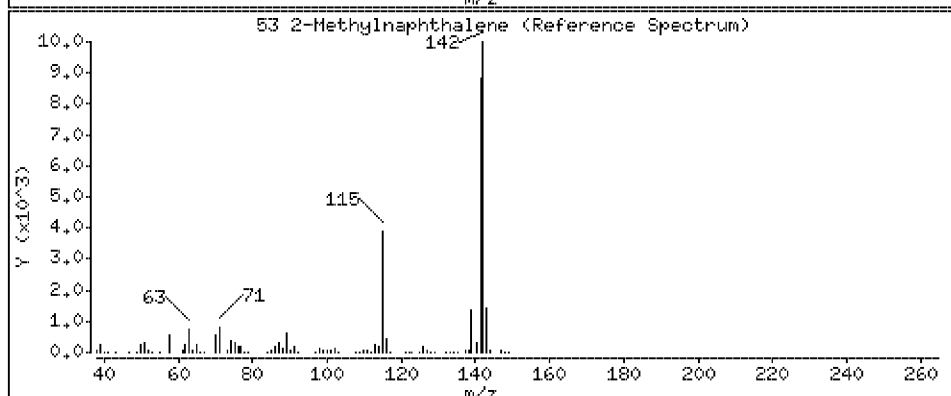
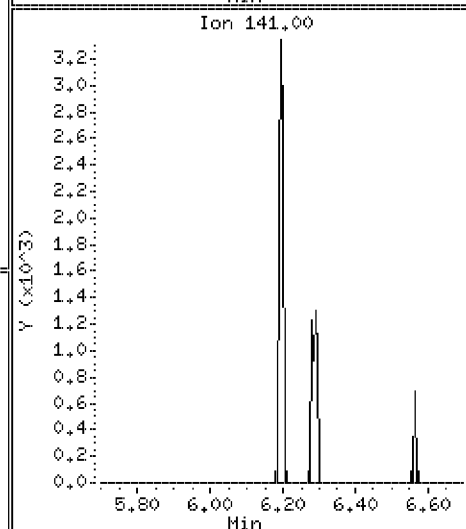
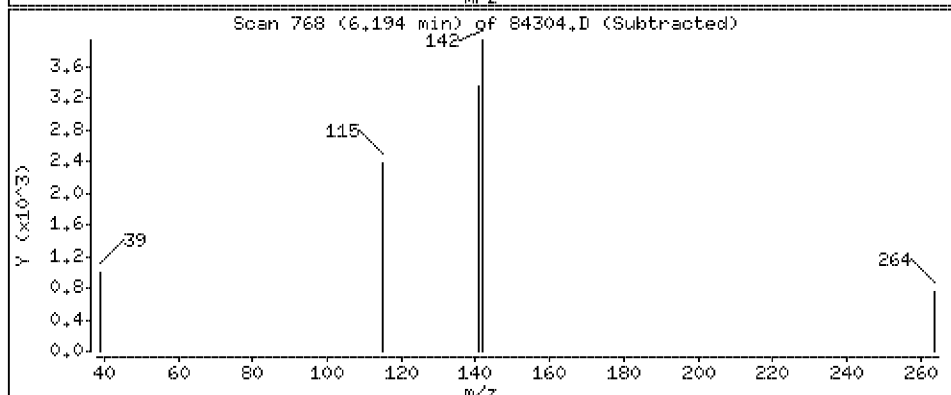
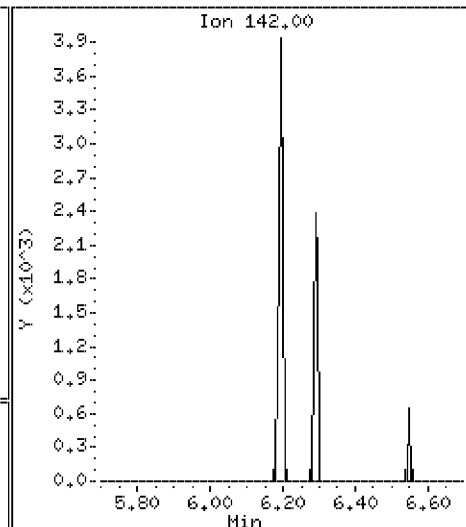
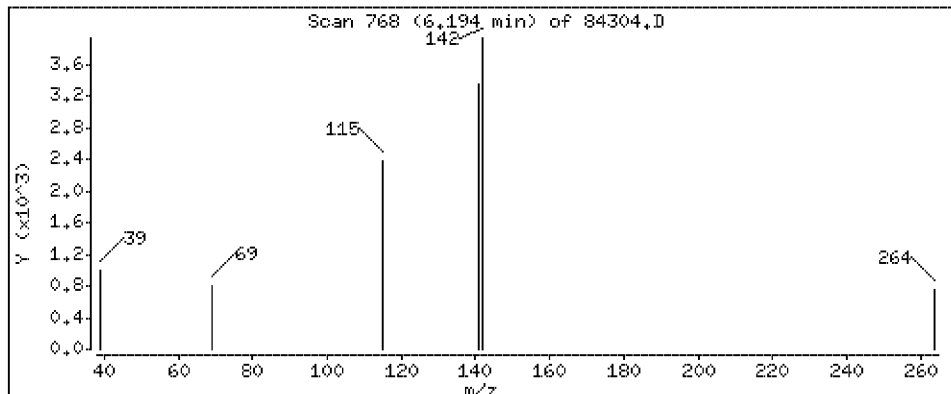
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

53 2-Methylnaphthalene

Concentration: 6.8 ug/kg



Date : 04-MAY-2012 14:09

Client ID: EPAFMC-SD-08

Instrument: smsd03.i

Sample Info: SW350584304

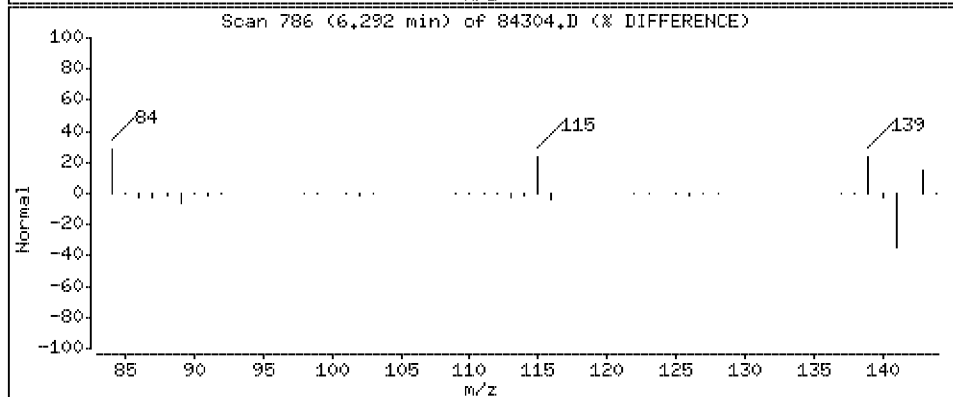
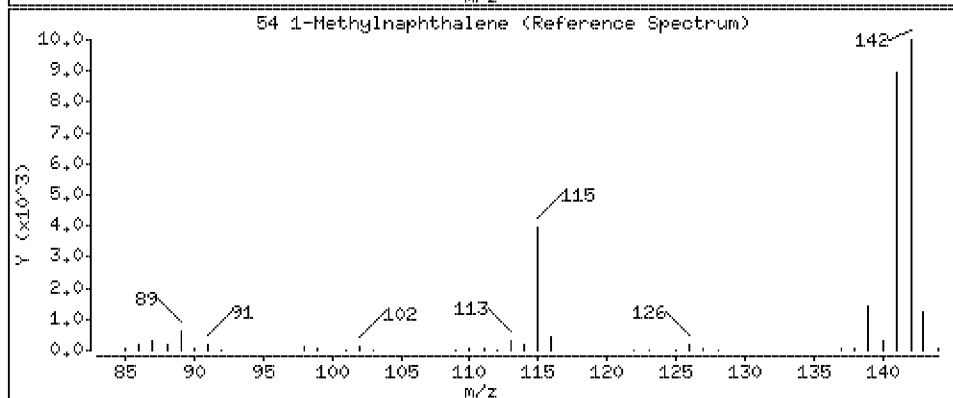
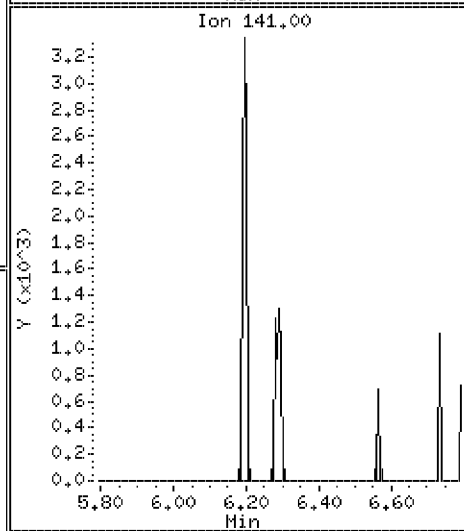
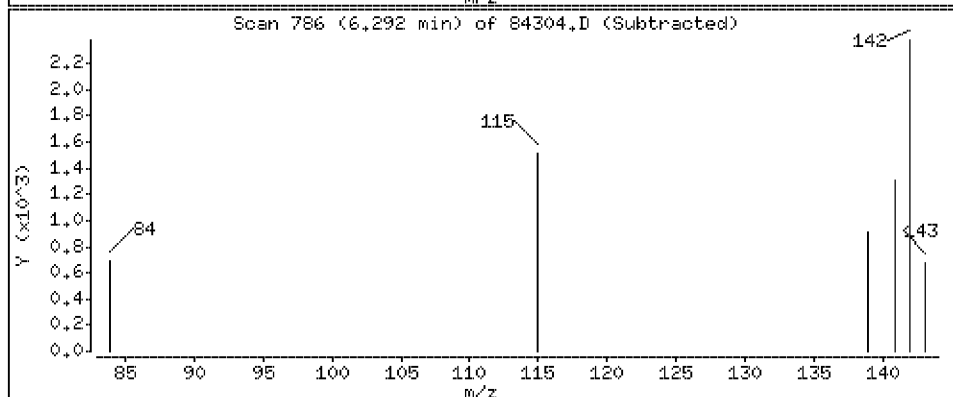
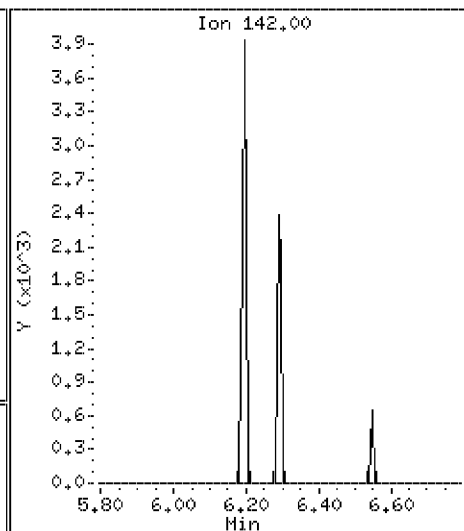
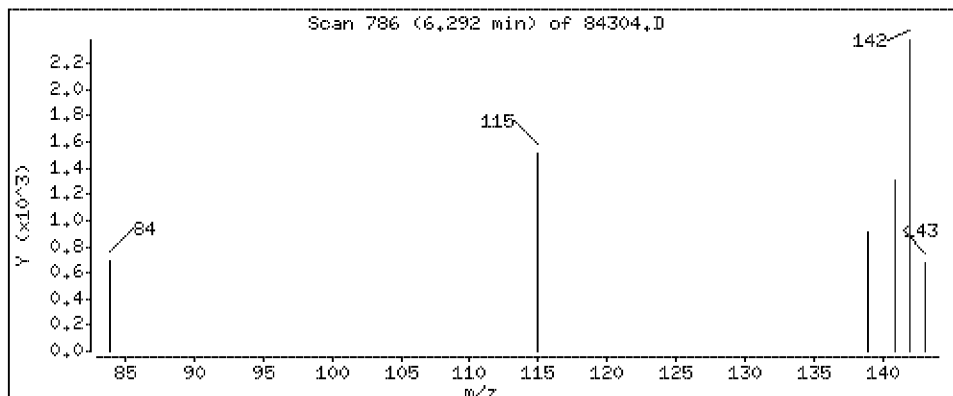
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

54 1-Methylnaphthalene

Concentration: 4.5 ug/kg



Date : 04-MAY-2012 14:09

Client ID: EPAFMC-SD-08

Instrument: smsd03.i

Sample Info: SW350584304

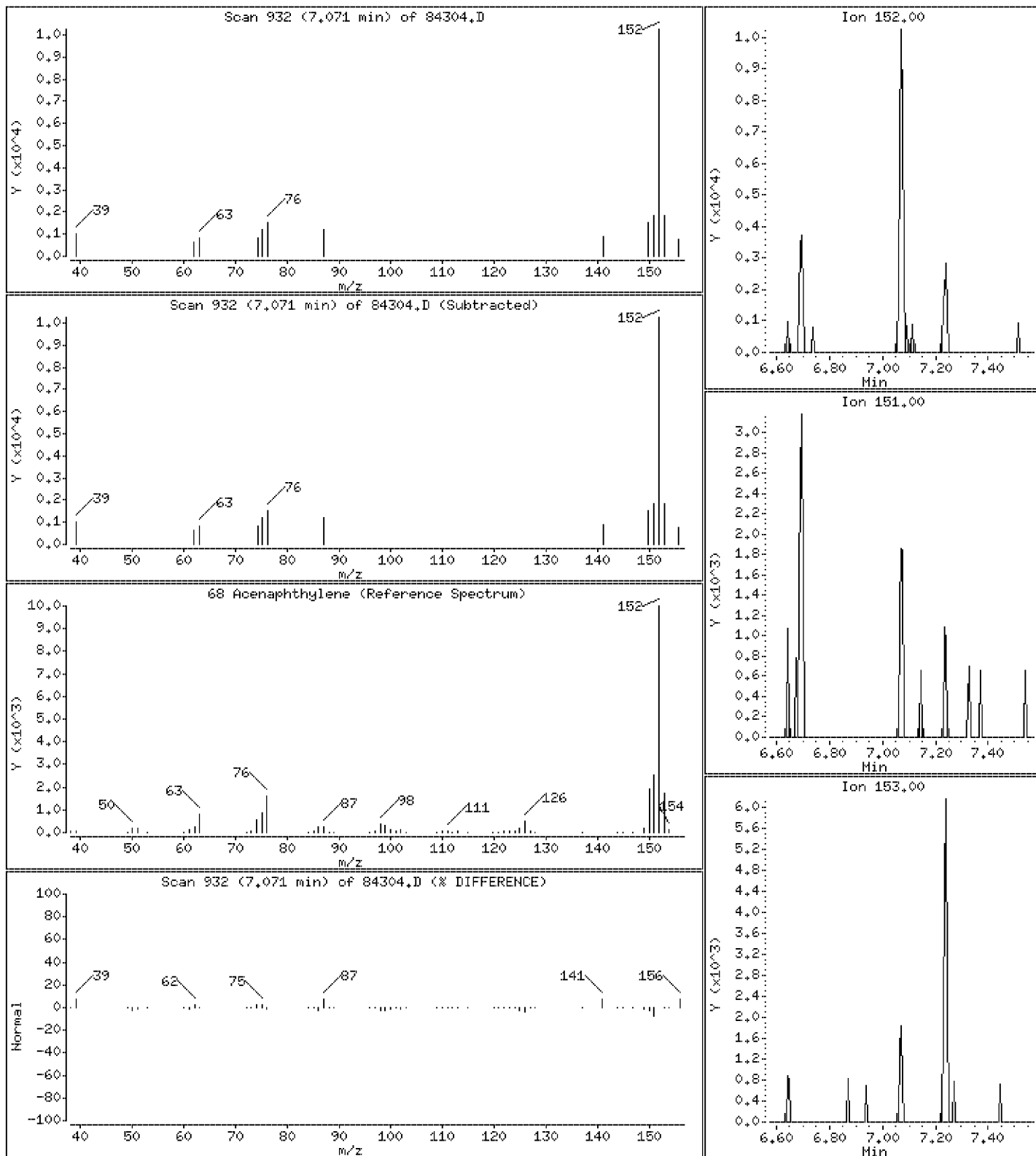
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

68 Acenaphthylene

Concentration: 13.4 ug/kg



Date : 04-MAY-2012 14:09

Client ID: EPAFMC-SD-08

Instrument: smsd03.i

Sample Info: SW350584304

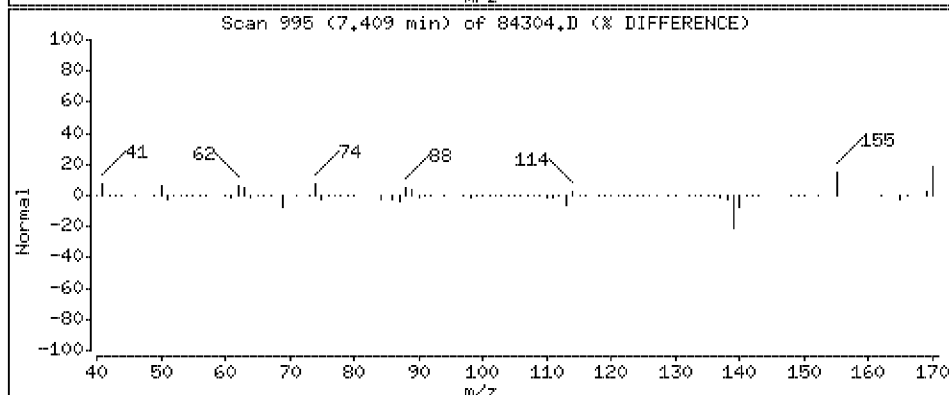
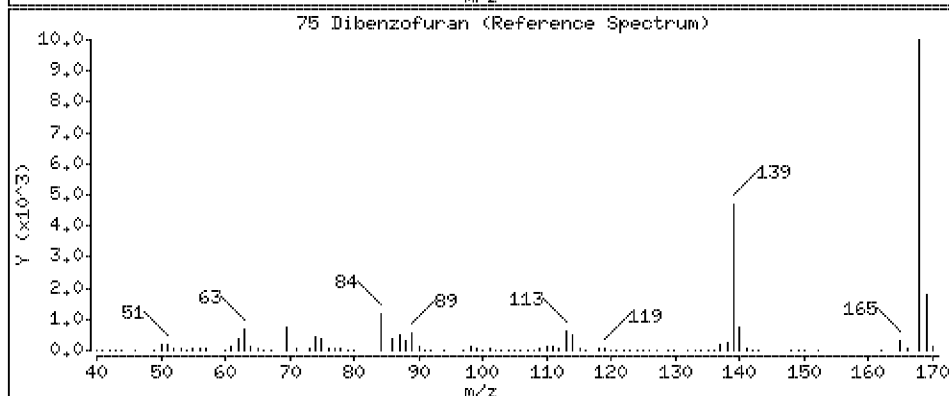
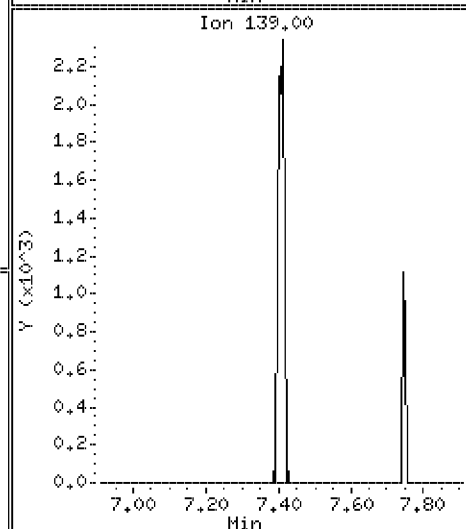
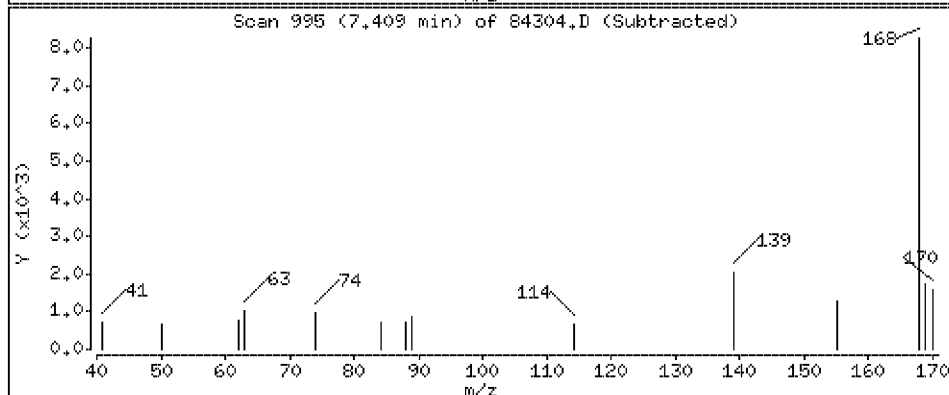
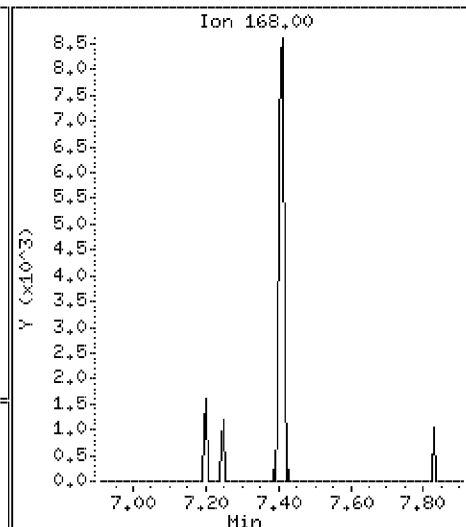
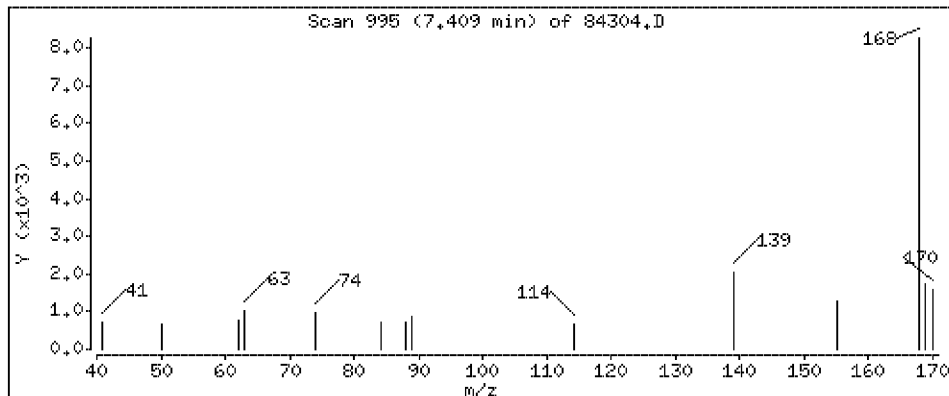
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

75 Dibenzofuran

Concentration: 12.2 ug/kg



Date : 04-MAY-2012 14:09

Client ID: EPAFMC-SD-08

Instrument: smsd03.i

Sample Info: SW350584304

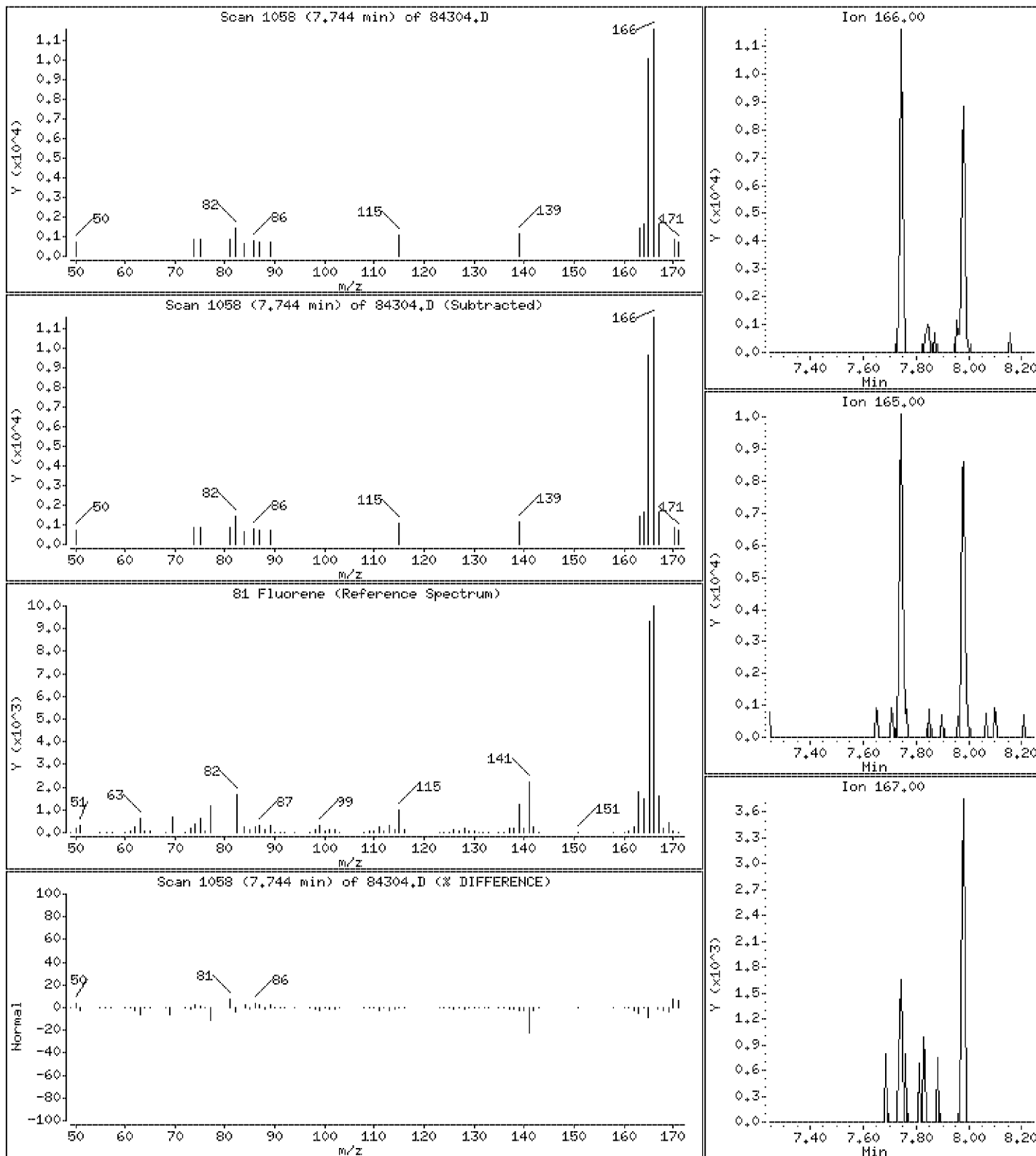
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

81 Fluorene

Concentration: 14.8 ug/kg



Date : 04-MAY-2012 14:09

Client ID: EPAFMC-SD-08

Instrument: smsd03.i

Sample Info: SW350584304

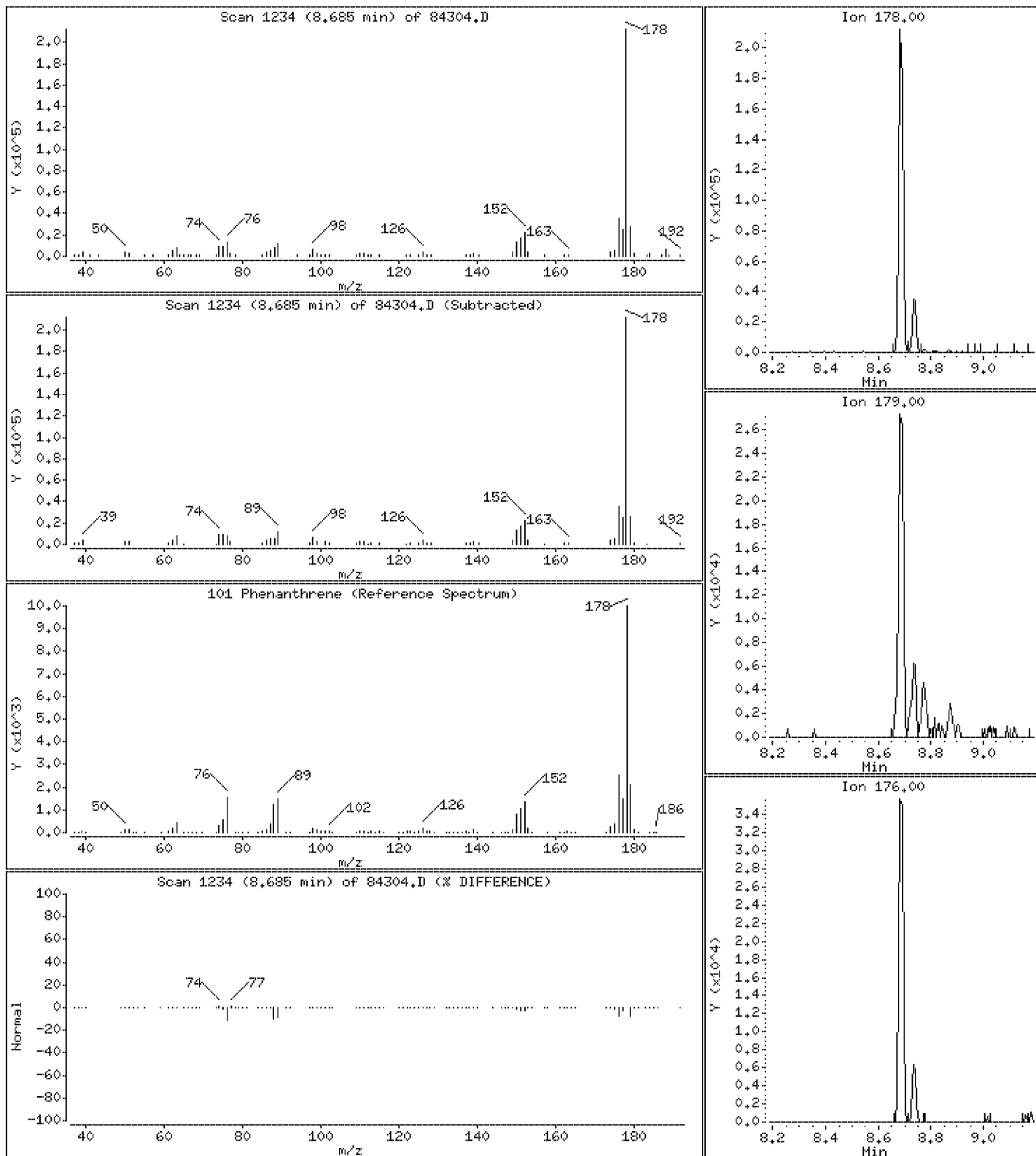
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

101 Phenanthrene

Concentration: 215 ug/kg



Date : 04-MAY-2012 14:09

Client ID: EPAFMC-SD-08

Instrument: smsd03.i

Sample Info: SW350584304

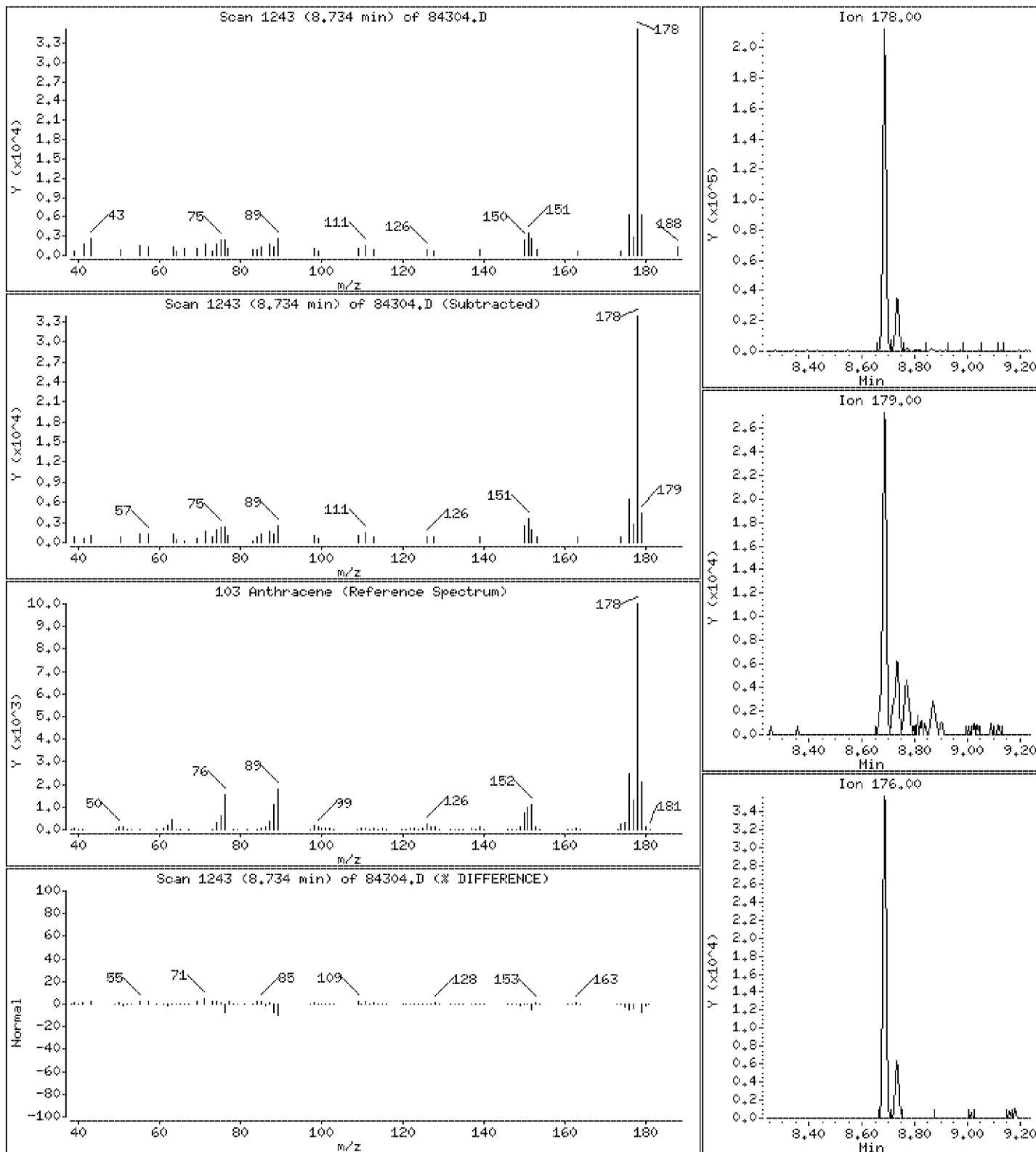
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

103 Anthracene

Concentration: 42.4 ug/kg



Date : 04-MAY-2012 14:09

Client ID: EPAFMC-SD-08

Instrument: smsd03.i

Sample Info: SW350584304

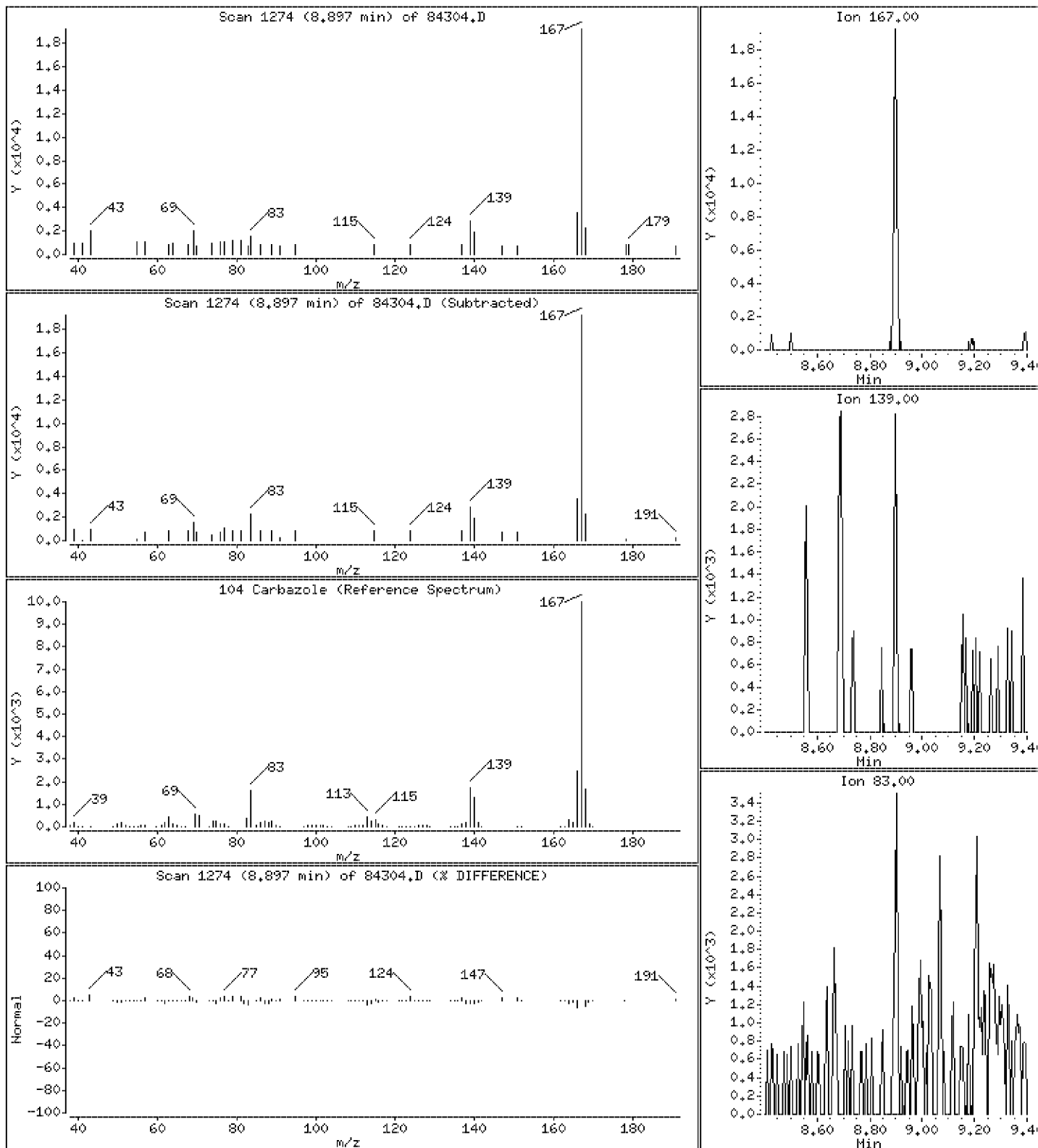
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

104 Carbazole

Concentration: 21.9 ug/kg



Date : 04-MAY-2012 14:09

Client ID: EPAFMC-SD-08

Instrument: smsd03.i

Sample Info: SW350584304

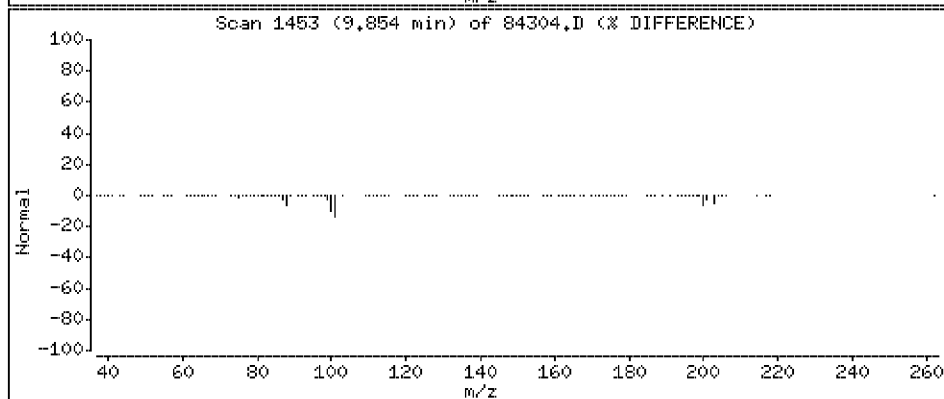
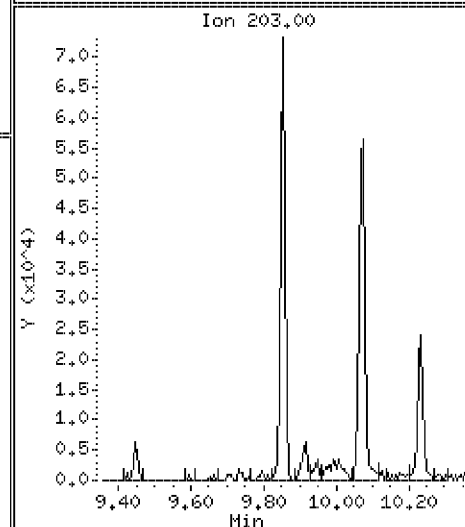
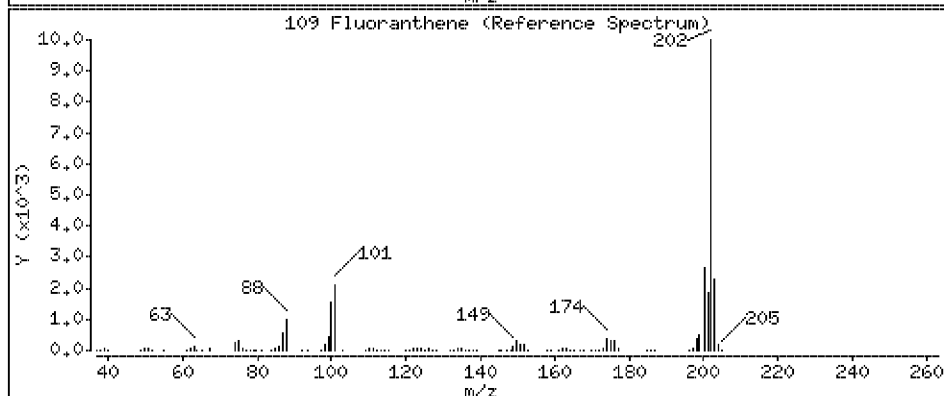
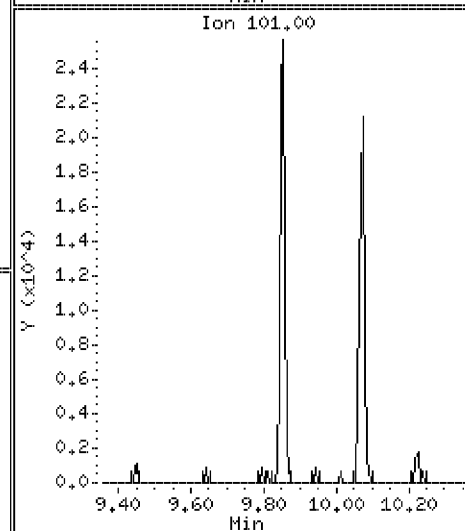
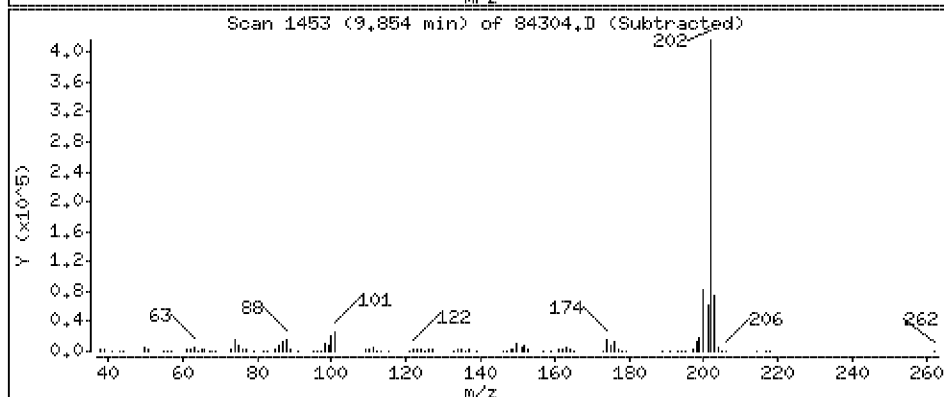
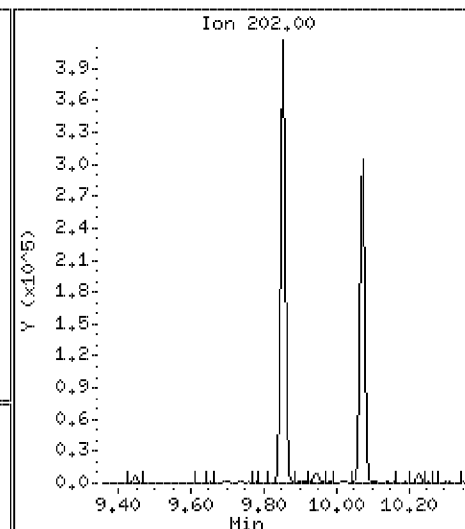
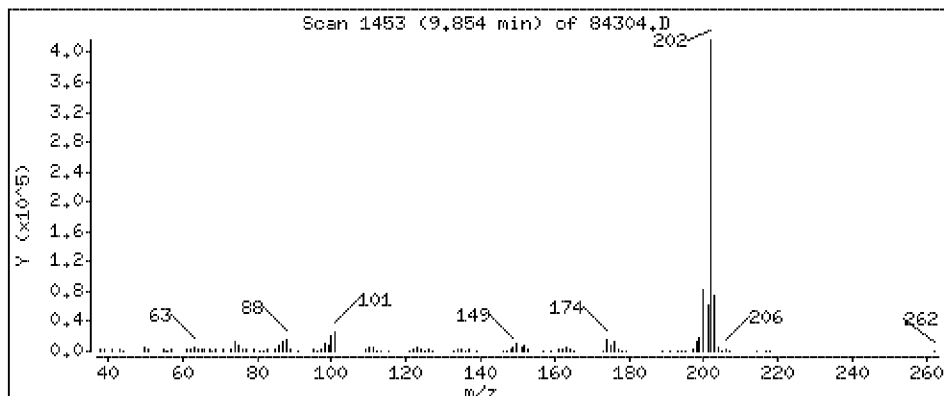
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

109 Fluoranthene

Concentration: 380 ug/kg



Date : 04-MAY-2012 14:09

Client ID: EPAFMC-SD-08

Instrument: smsd03.i

Sample Info: SW350584304

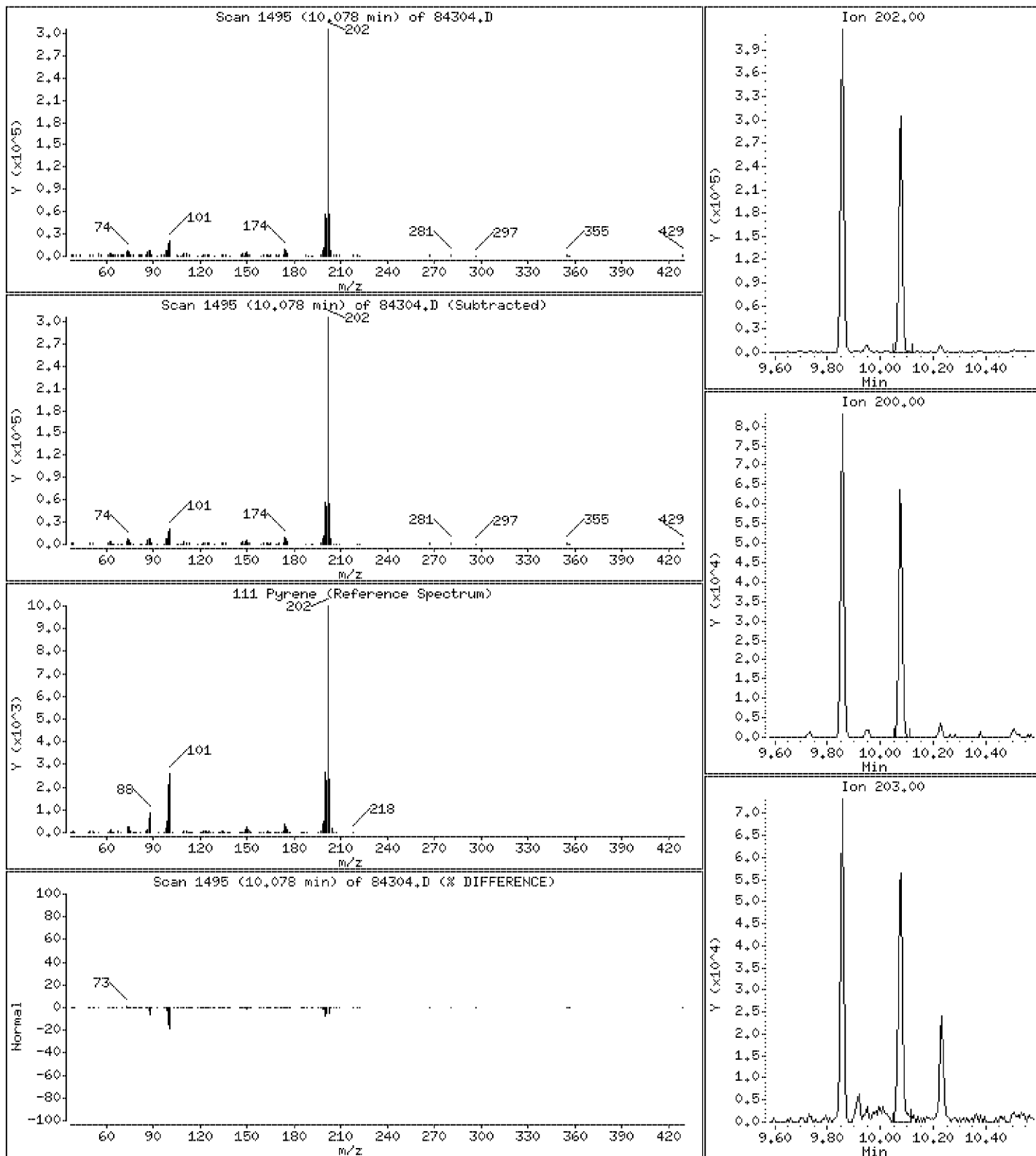
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

111 Pyrene

Concentration: 317 ug/kg



Date : 04-MAY-2012 14:09

Client ID: EPAFMC-SD-08

Instrument: smsd03.i

Sample Info: SW350584304

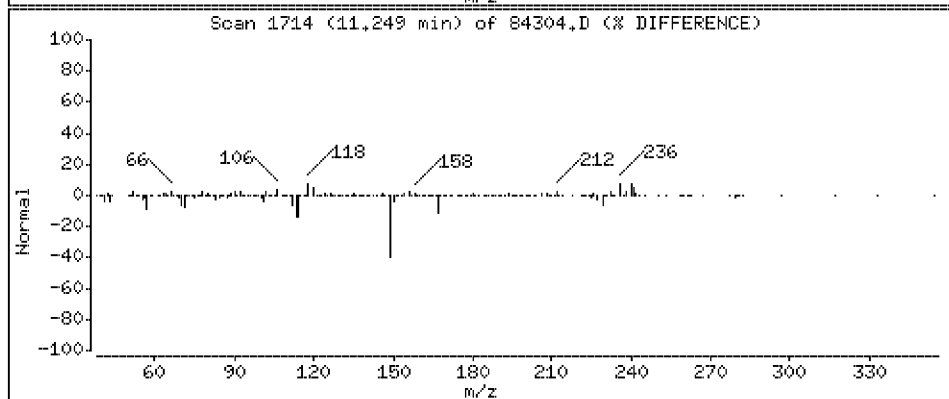
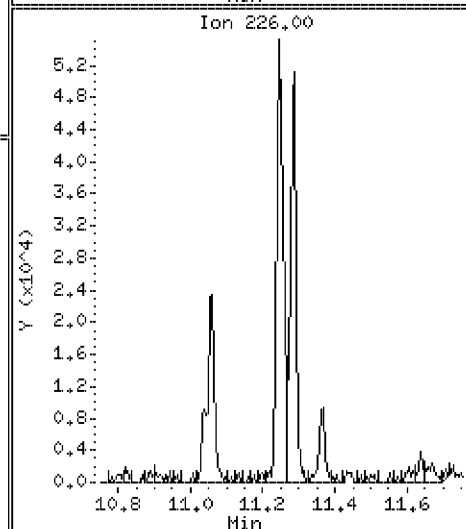
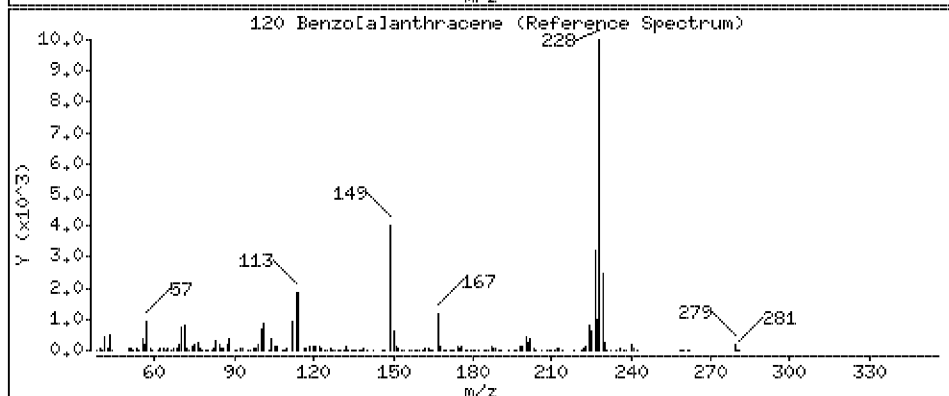
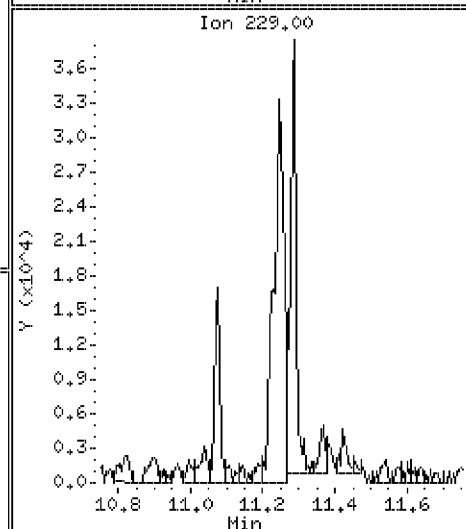
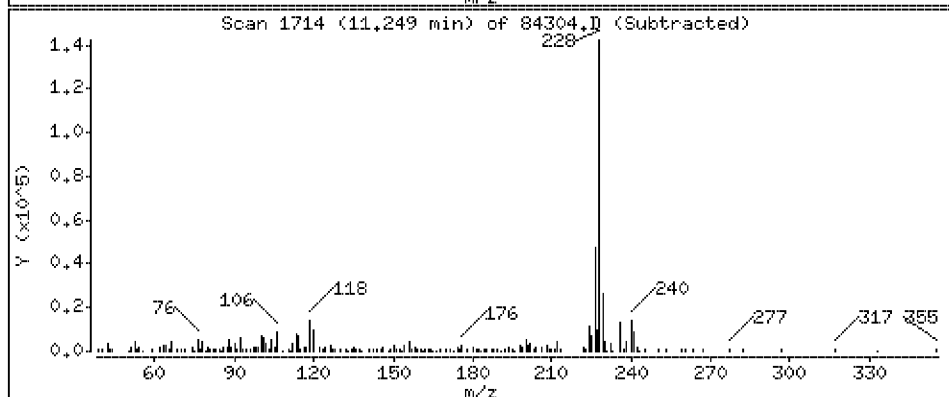
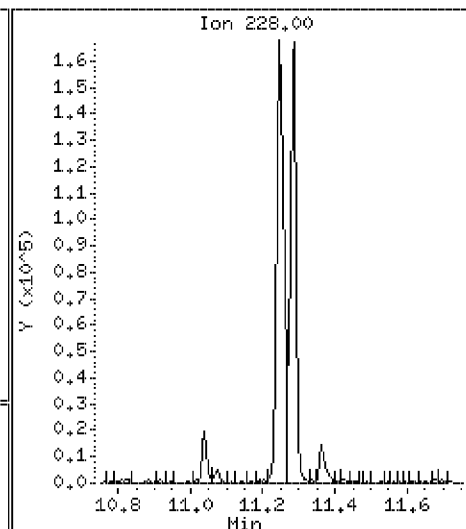
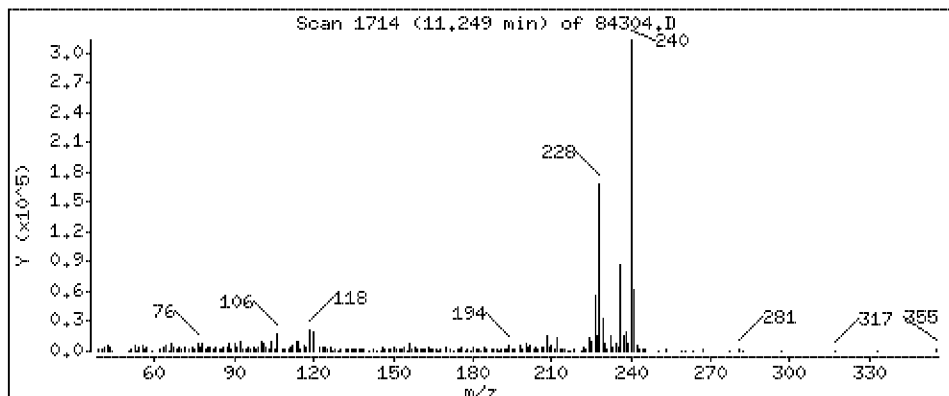
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

120 Benzo[*a*]anthracene

Concentration: 172 ug/kg



Date : 04-MAY-2012 14:09

Client ID: EPAFMC-SD-08

Instrument: smsd03.i

Sample Info: SW350584304

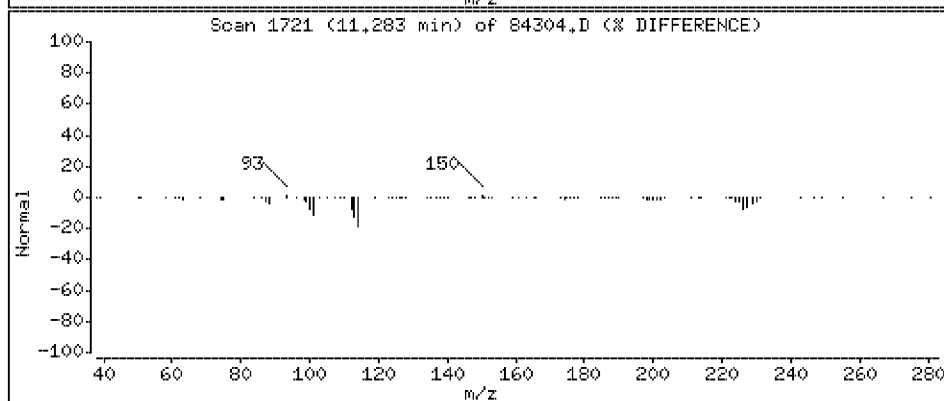
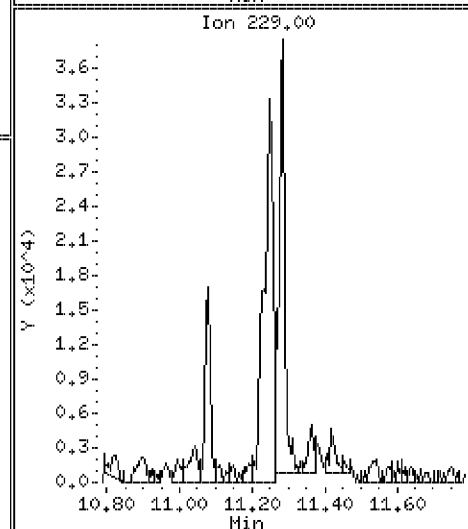
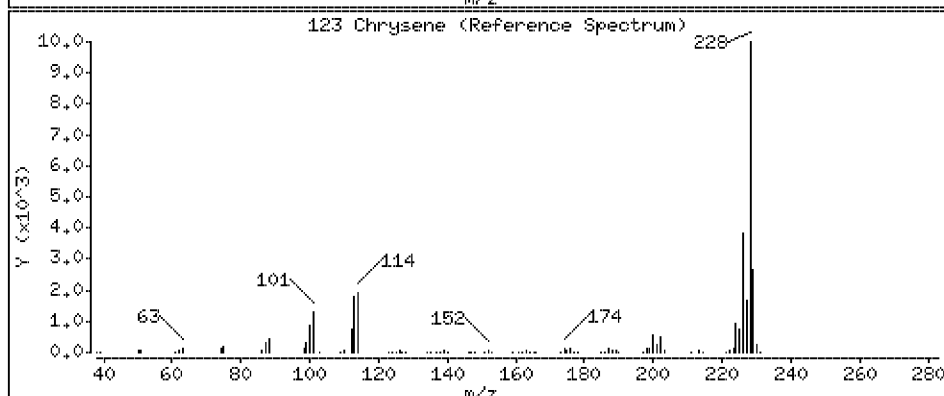
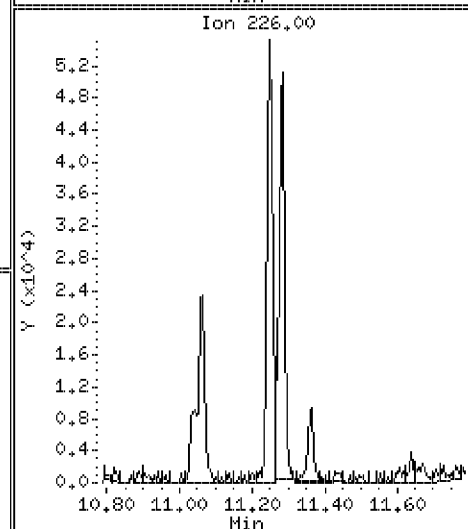
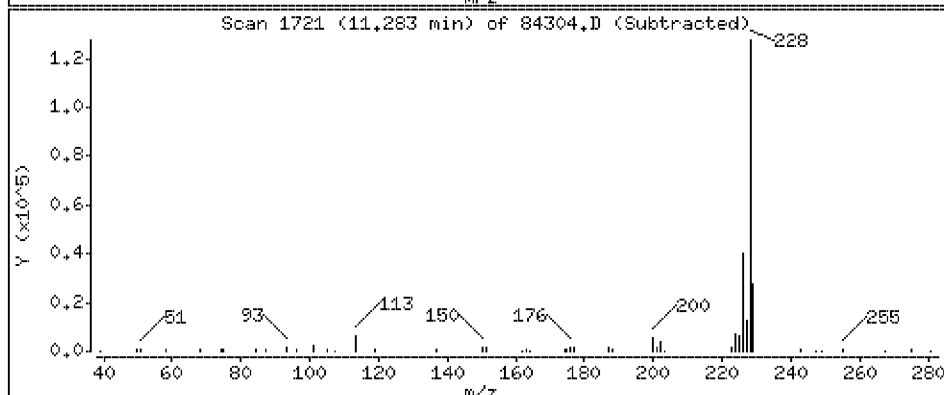
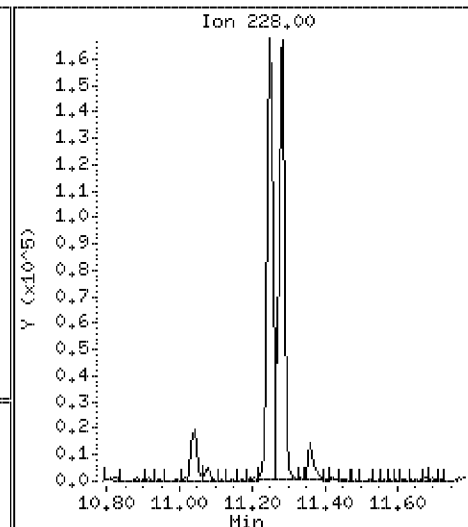
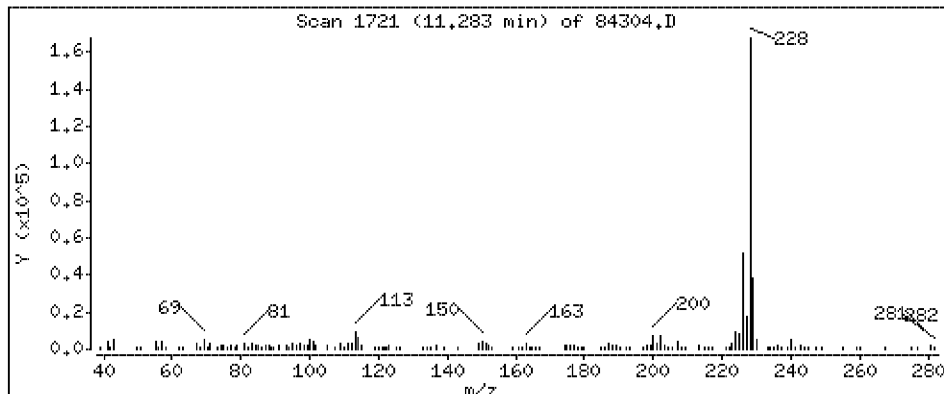
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

123 Chrysene

Concentration: 187 ug/kg



Date : 04-MAY-2012 14:09

Client ID: EPAFMC-SD-08

Instrument: smsd03.i

Sample Info: SW350584304

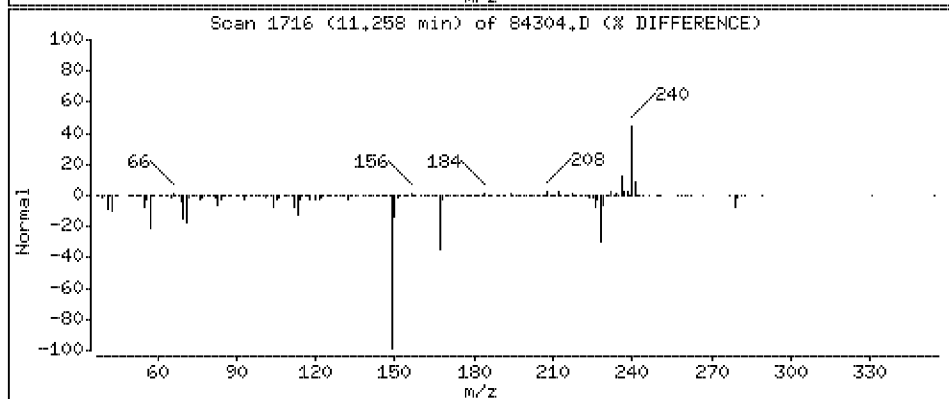
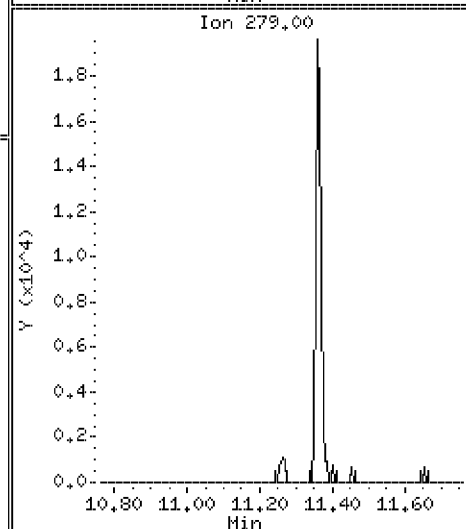
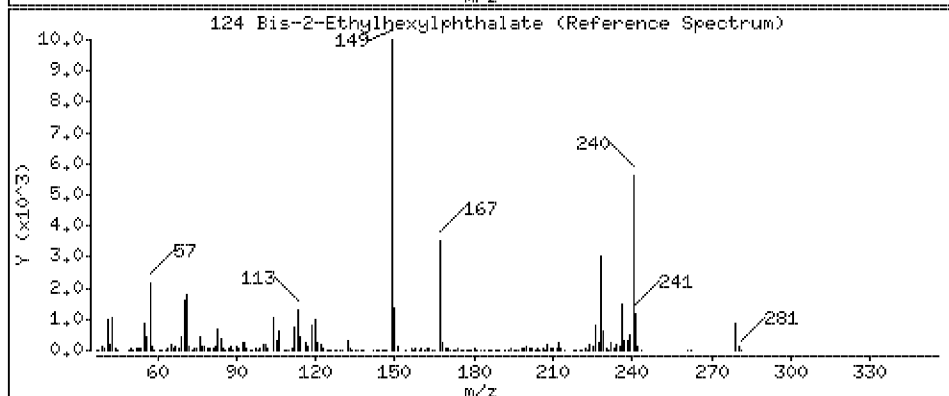
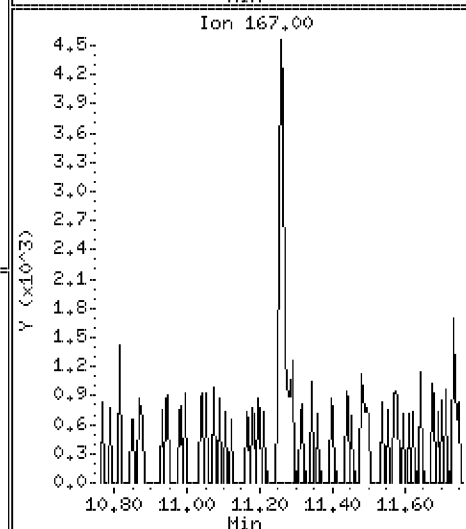
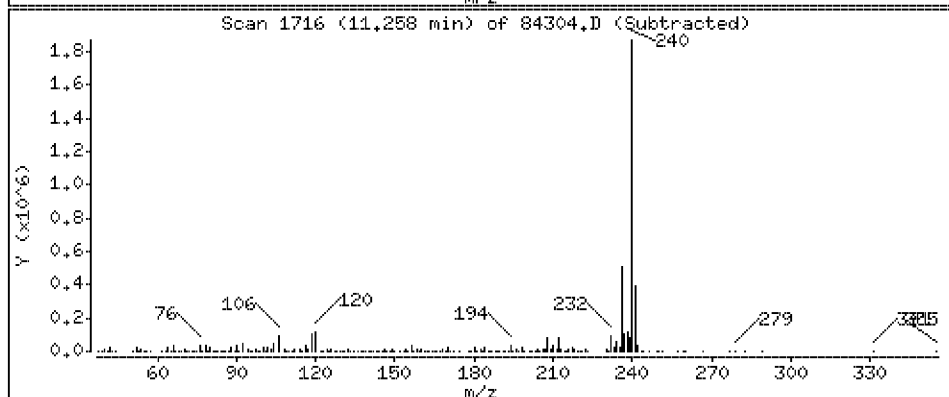
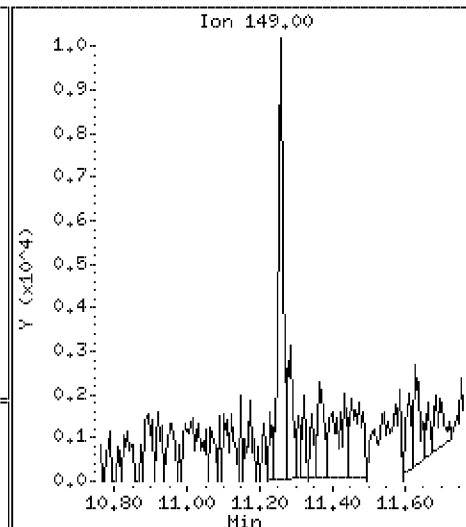
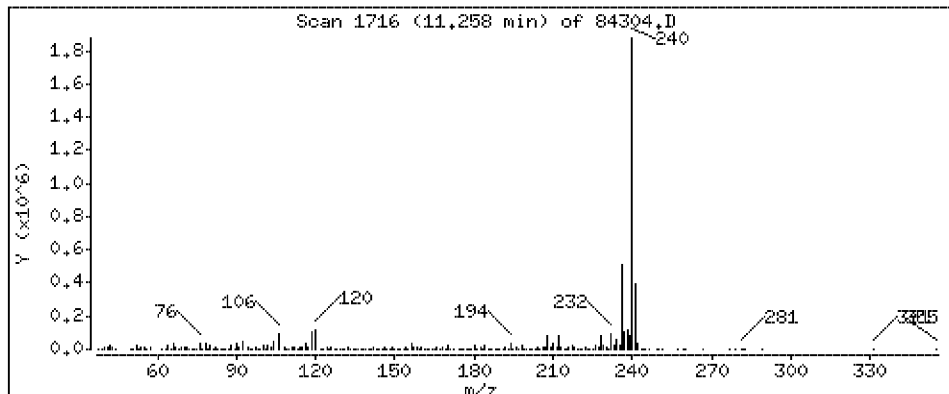
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

124 Bis-2-Ethylhexylphthalate

Concentration: 14.0 ug/kg



Date : 04-MAY-2012 14:09

Client ID: EPAFMC-SD-08

Instrument: smsd03.i

Sample Info: SW350584304

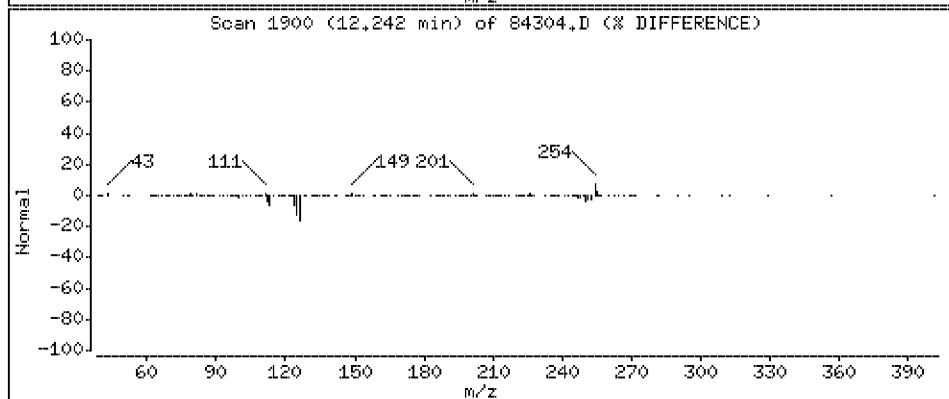
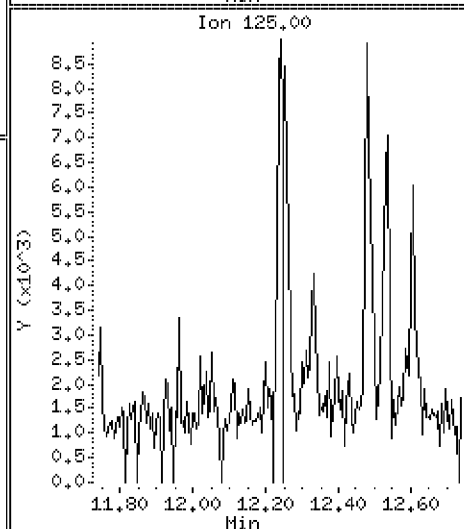
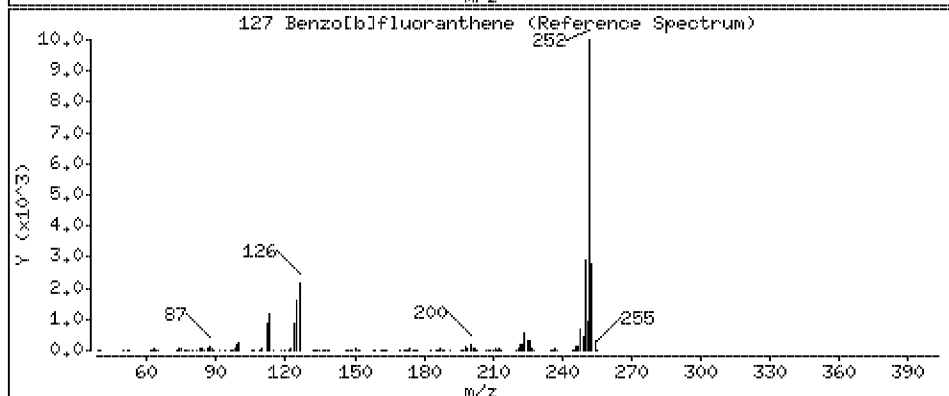
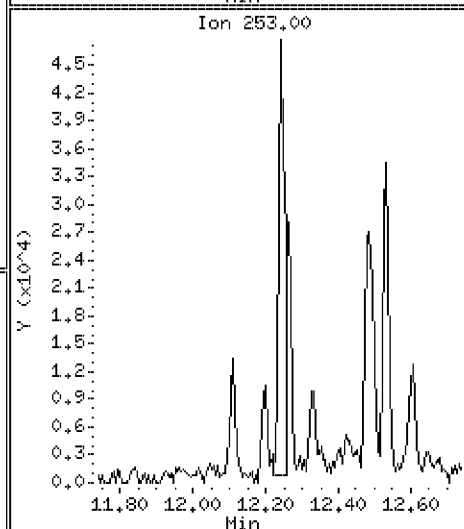
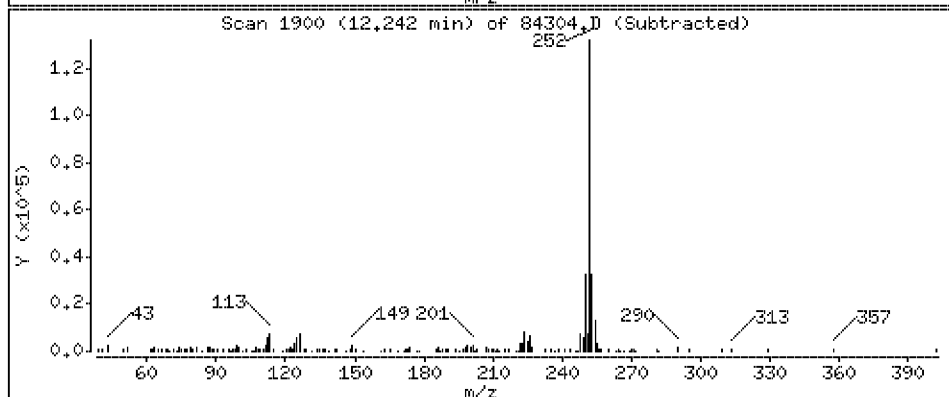
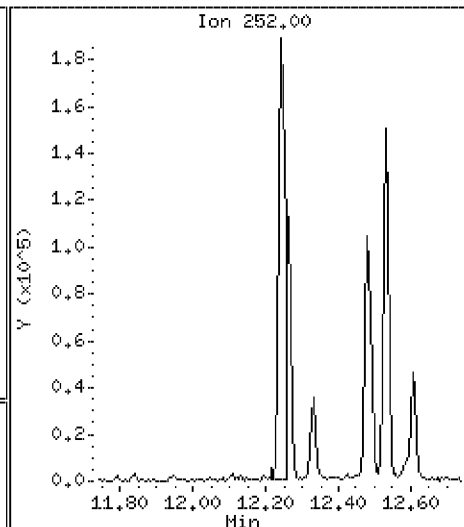
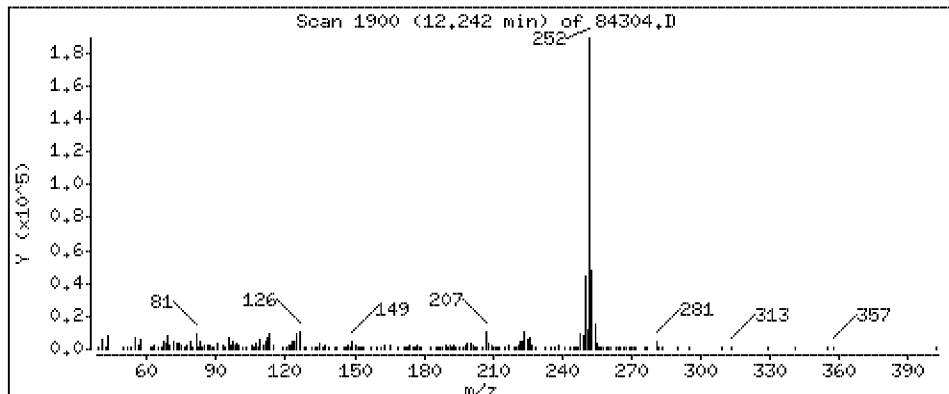
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

127 Benzo[b]fluoranthene

Concentration: 210 ug/kg



Date : 04-MAY-2012 14:09

Client ID: EPAFMC-SD-08

Instrument: smsd03.i

Sample Info: SW350584304

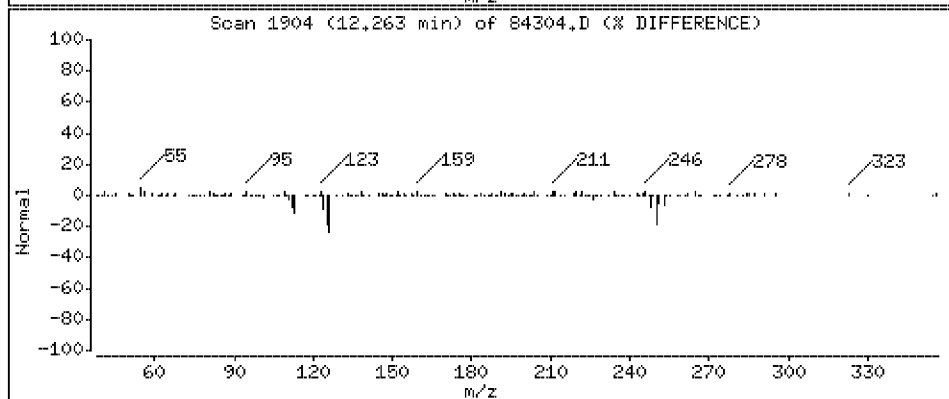
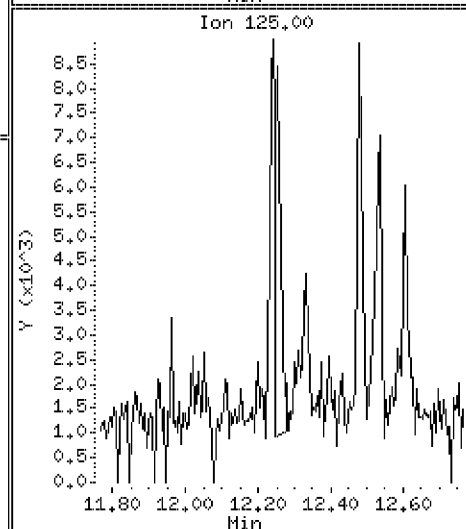
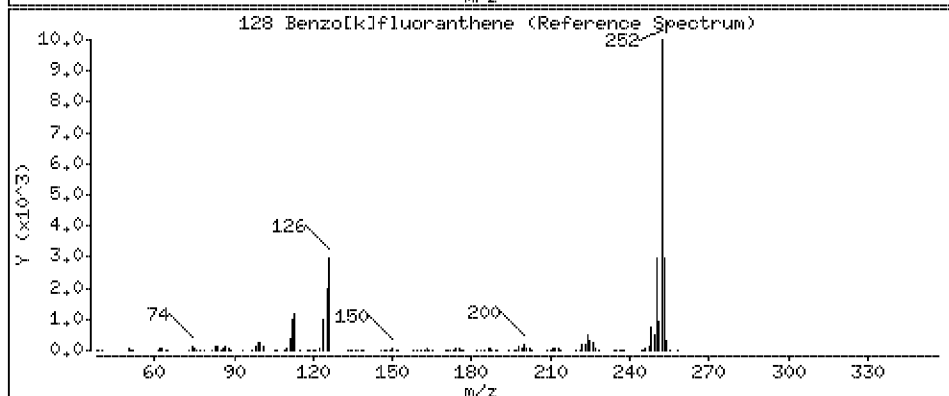
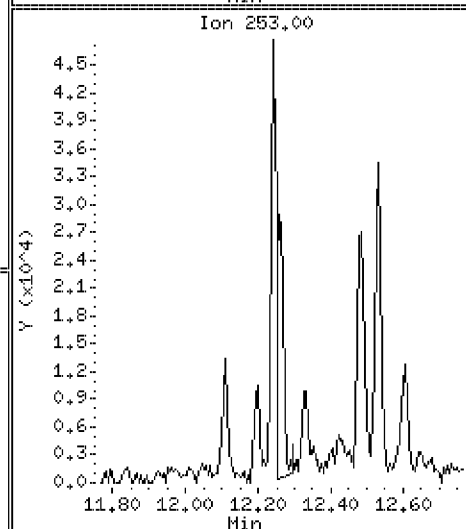
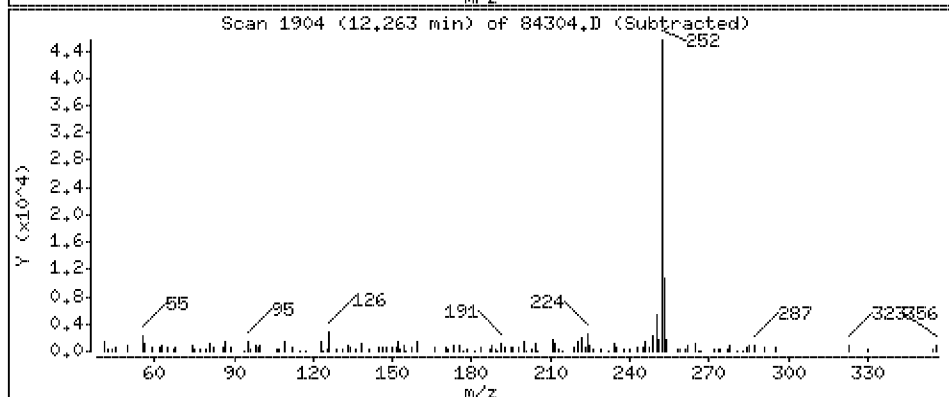
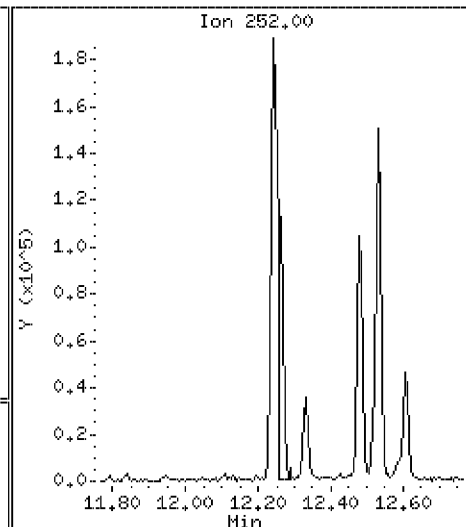
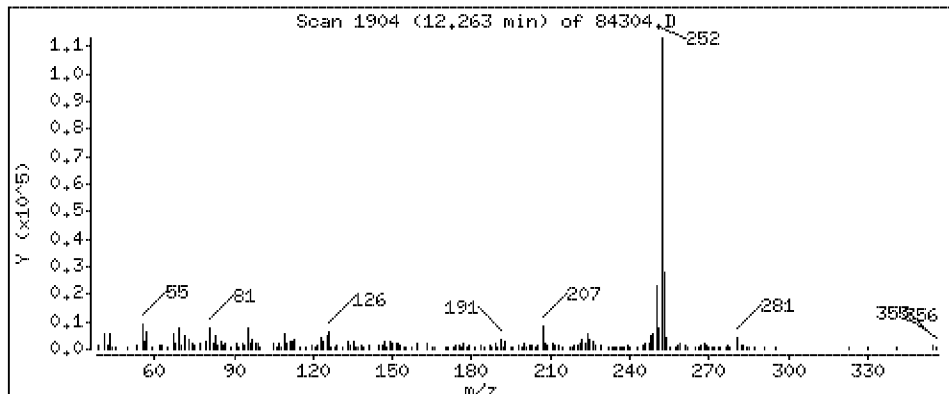
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

128 Benzo[k]fluoranthene

Concentration: 87.6 ug/kg



Date : 04-MAY-2012 14:09

Client ID: EPAFMC-SD-08

Instrument: smsd03.i

Sample Info: SW350584304

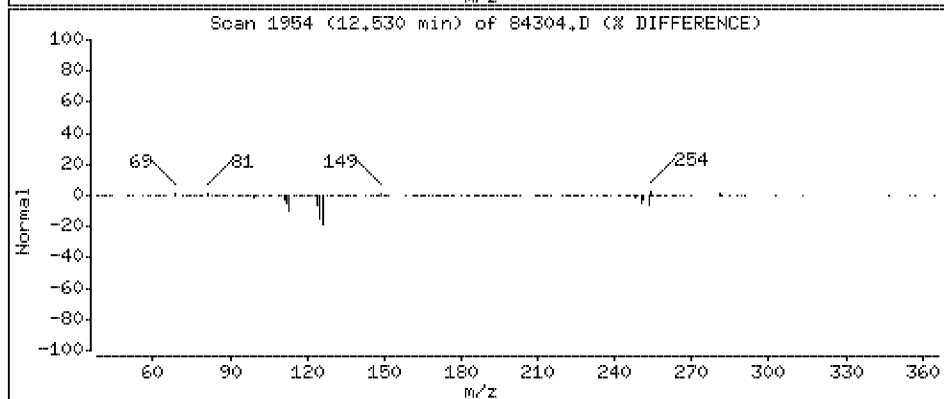
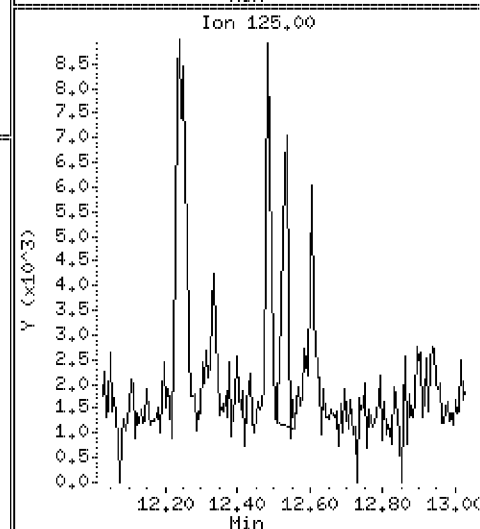
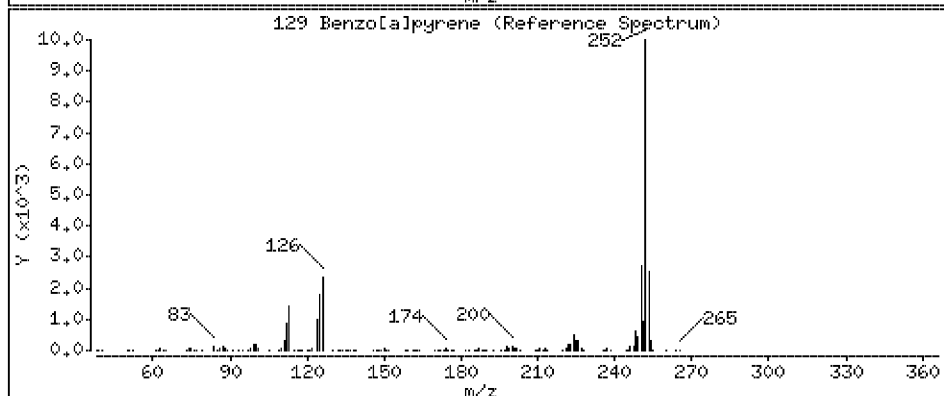
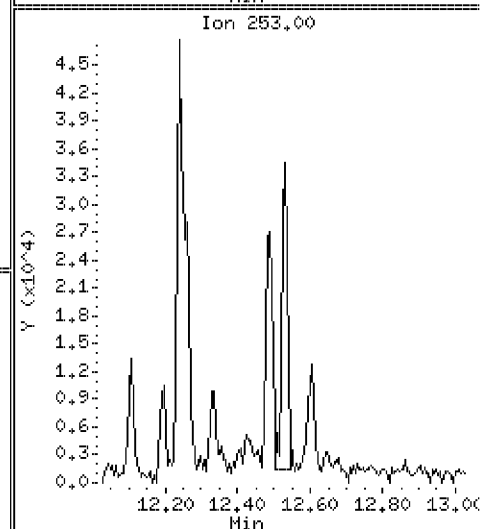
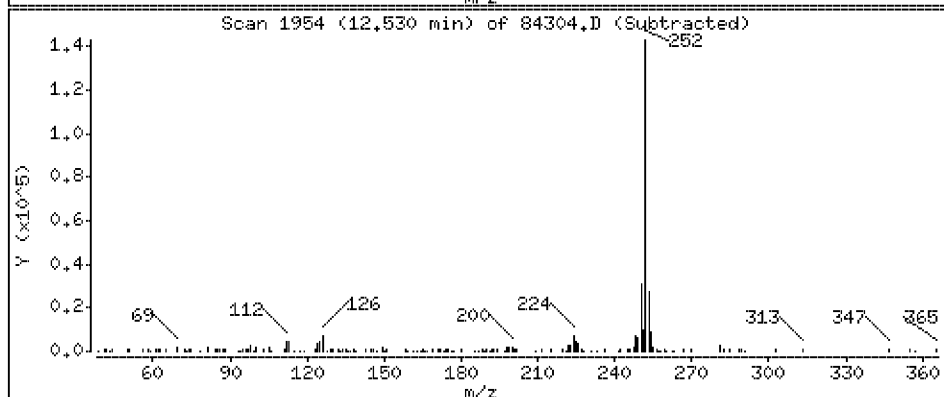
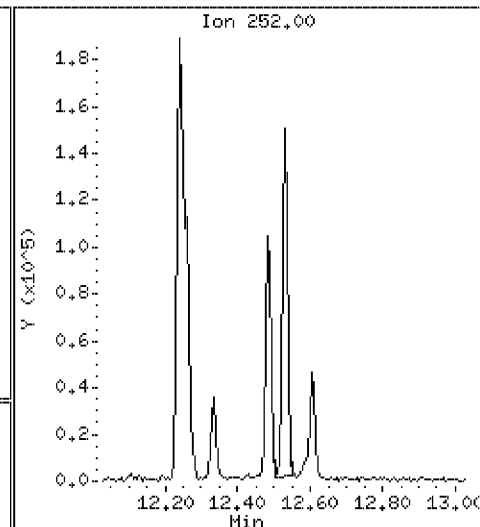
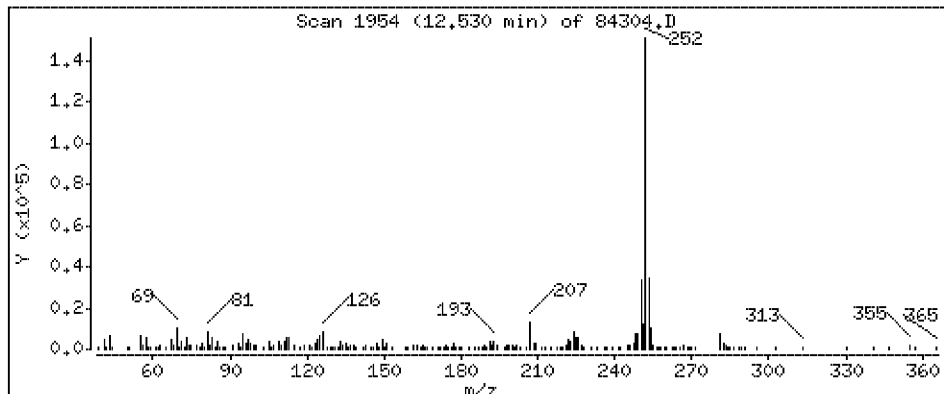
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

129 Benzo[a]pyrene

Concentration: 129 ug/kg



Date : 04-MAY-2012 14:09

Client ID: EPAFMC-SD-08

Instrument: smsd03.i

Sample Info: SW350584304

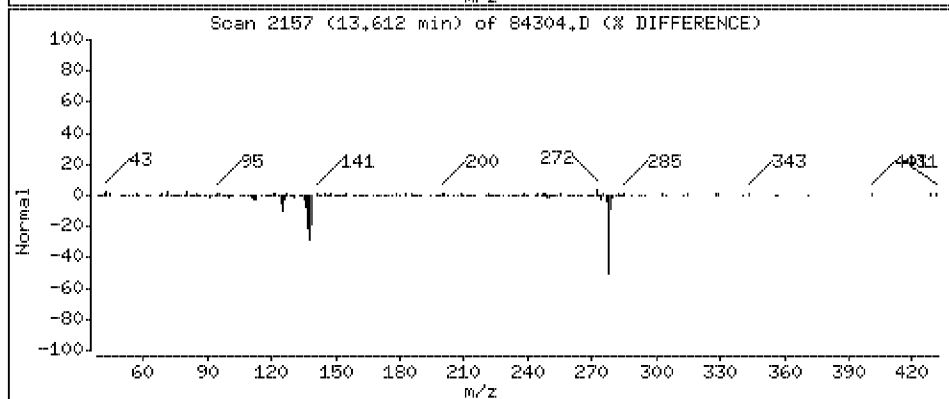
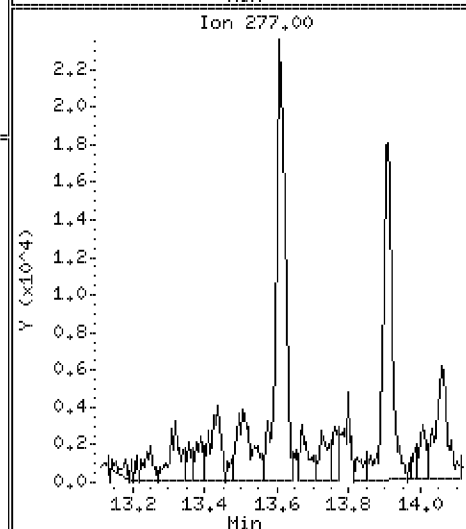
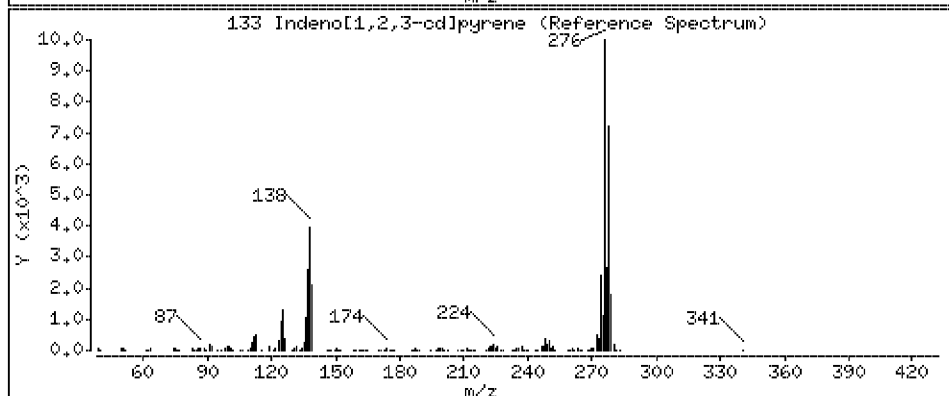
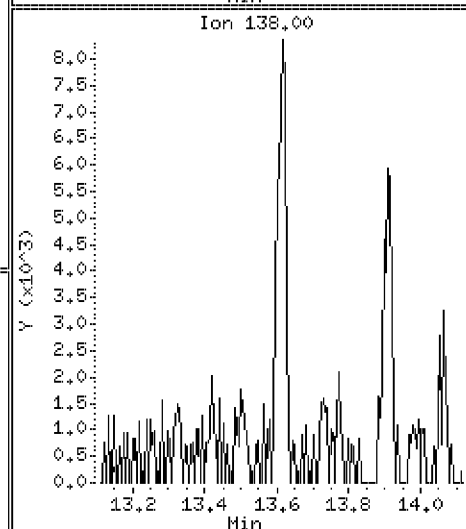
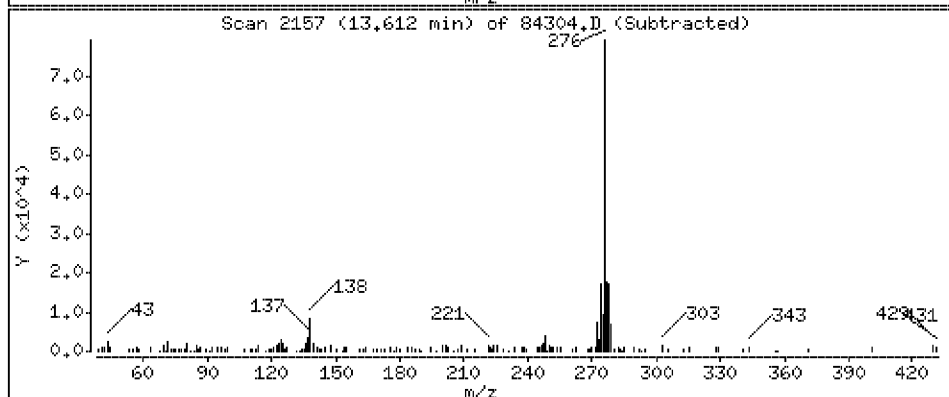
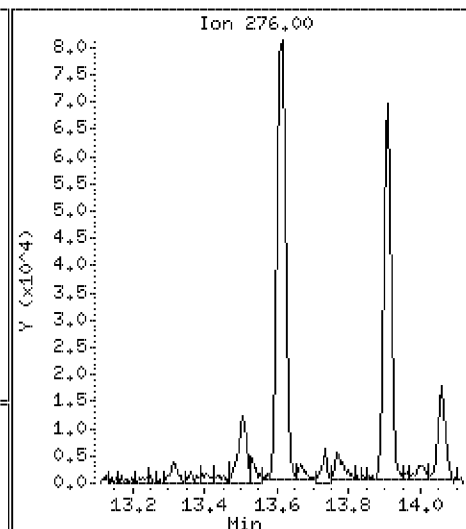
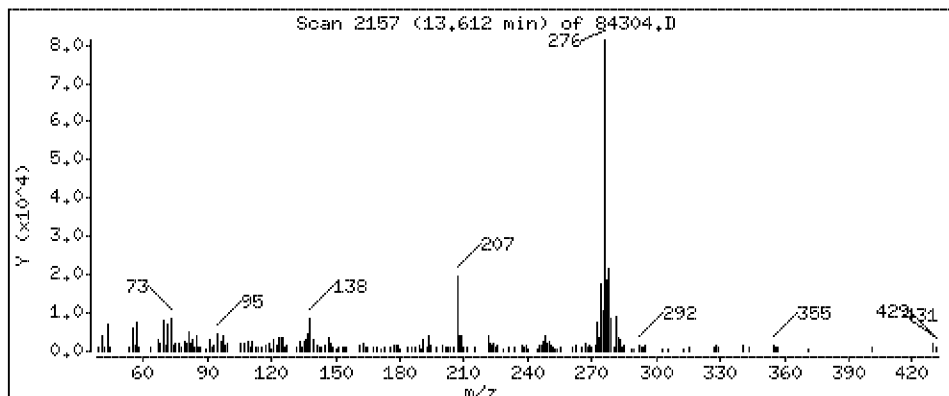
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

133 Indeno[1,2,3-cd]pyrene

Concentration: 79.2 ug/kg



Date : 04-MAY-2012 14:09

Client ID: EPAFMC-SD-08

Instrument: smsd03.i

Sample Info: SW350584304

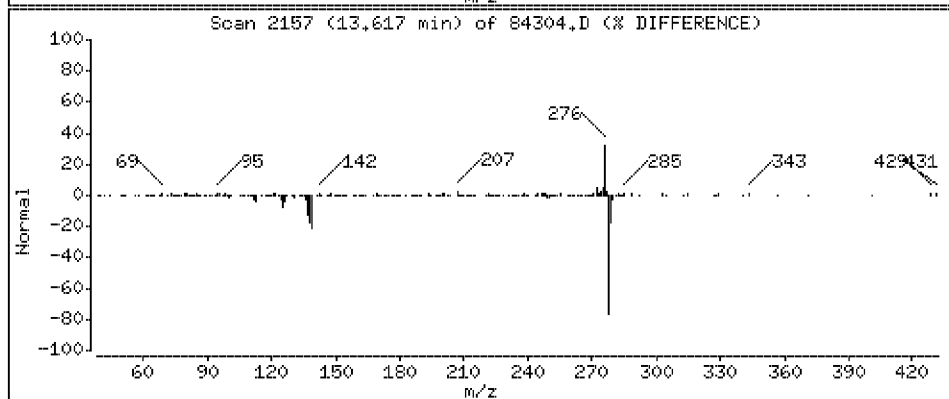
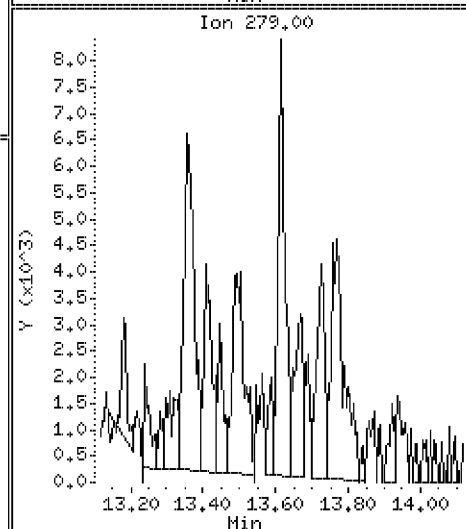
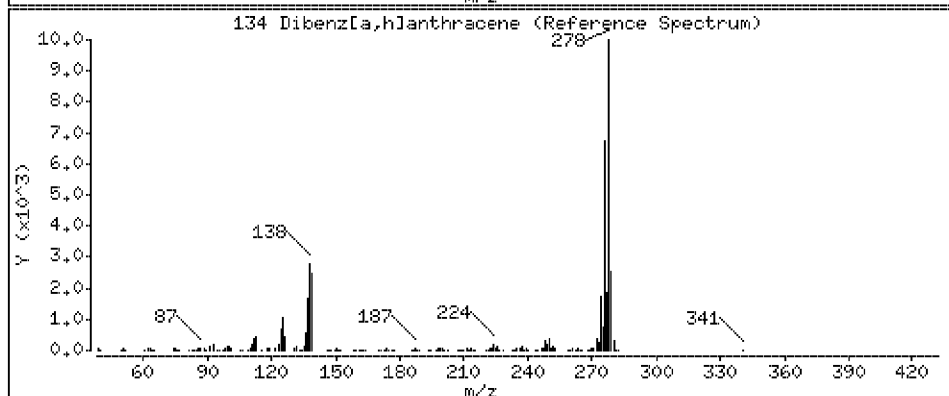
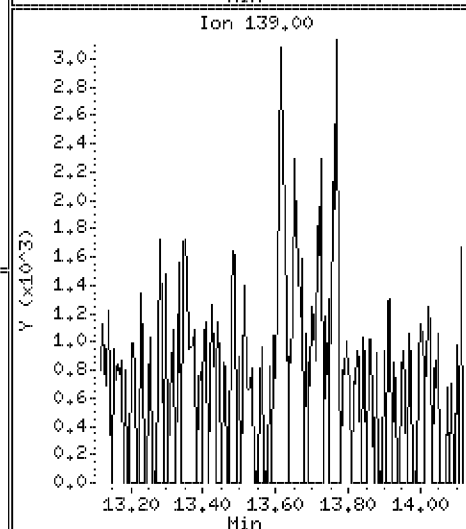
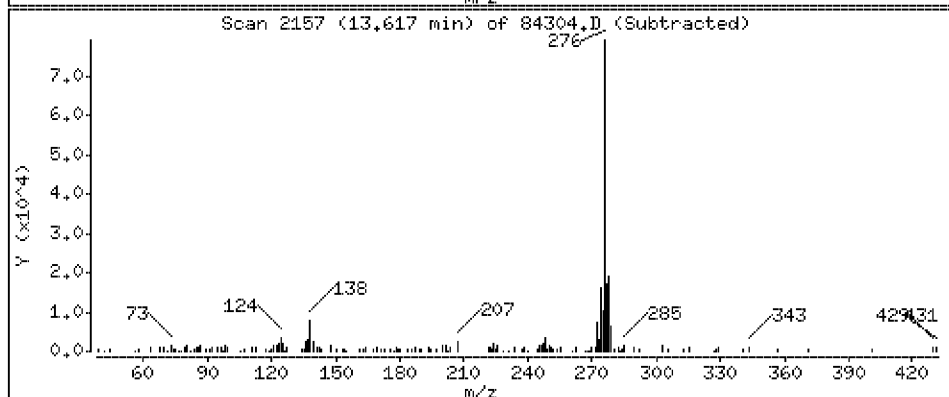
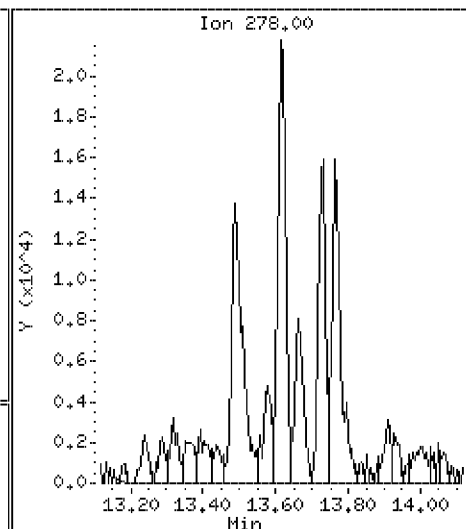
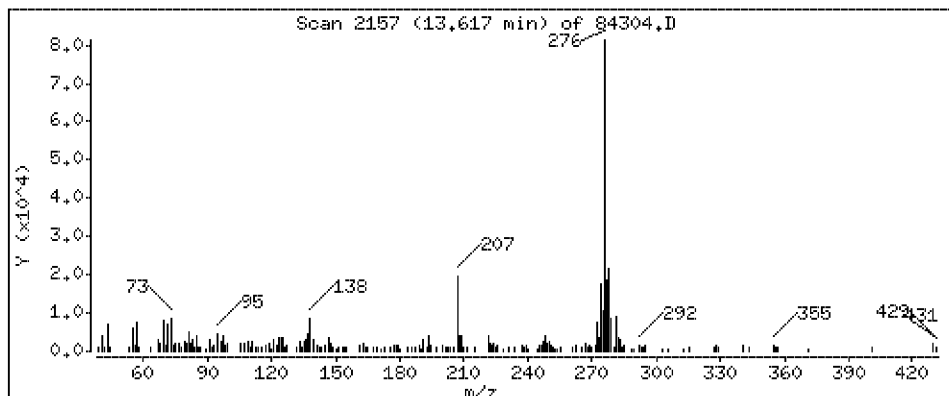
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

134 Dibenz[a,h]anthracene

Concentration: 26.6 ug/kg



Date : 04-MAY-2012 14:09

Client ID: EPAFMC-SD-08

Instrument: smsd03.i

Sample Info: SW350584304

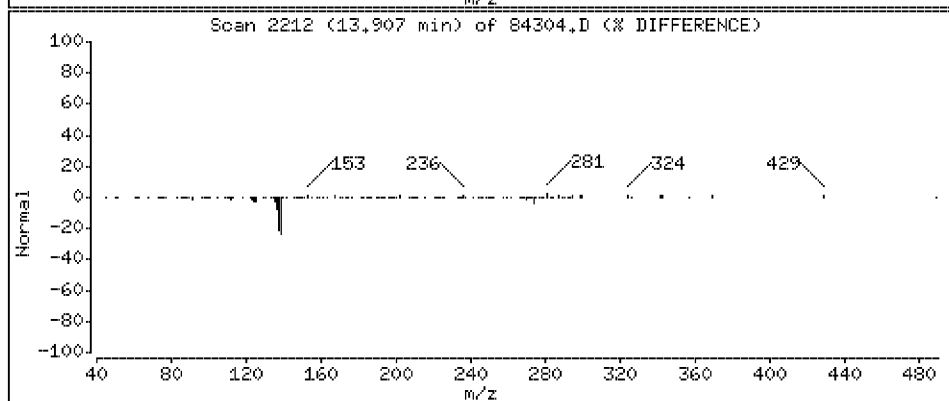
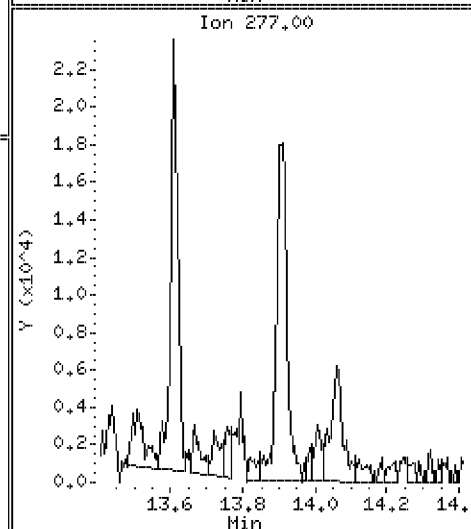
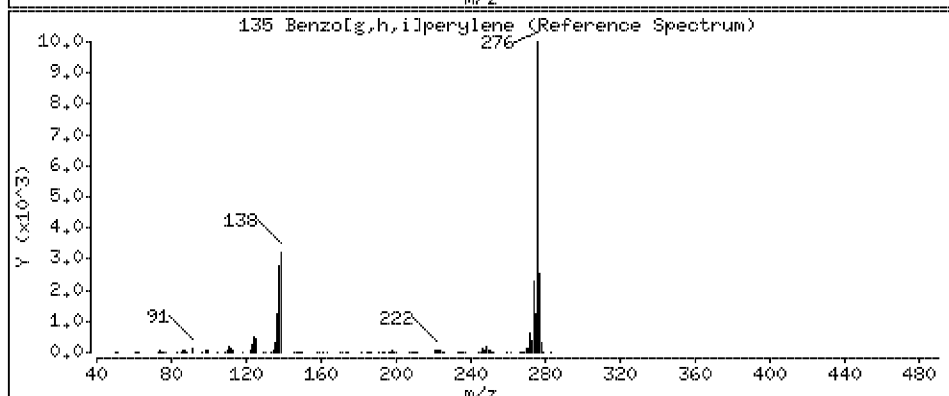
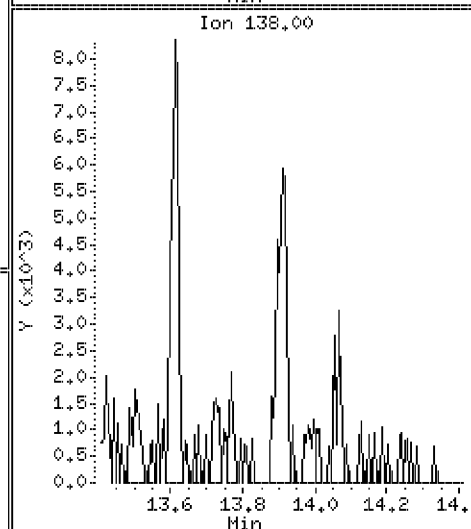
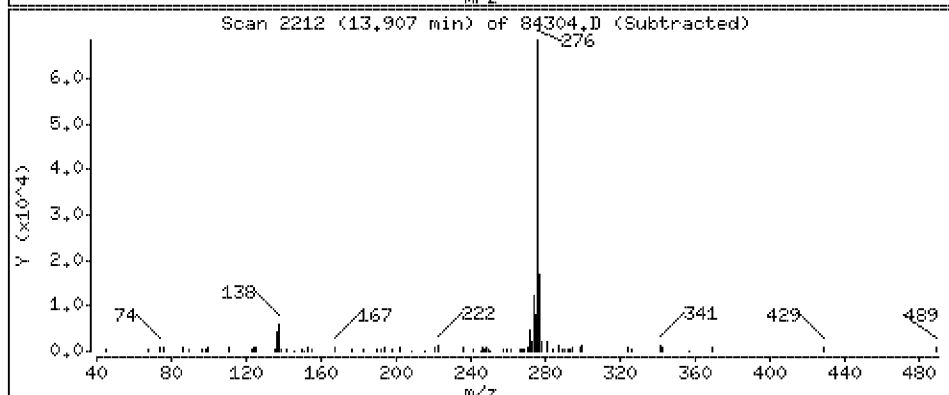
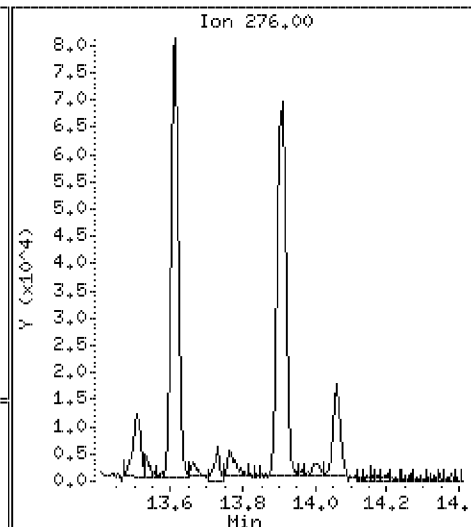
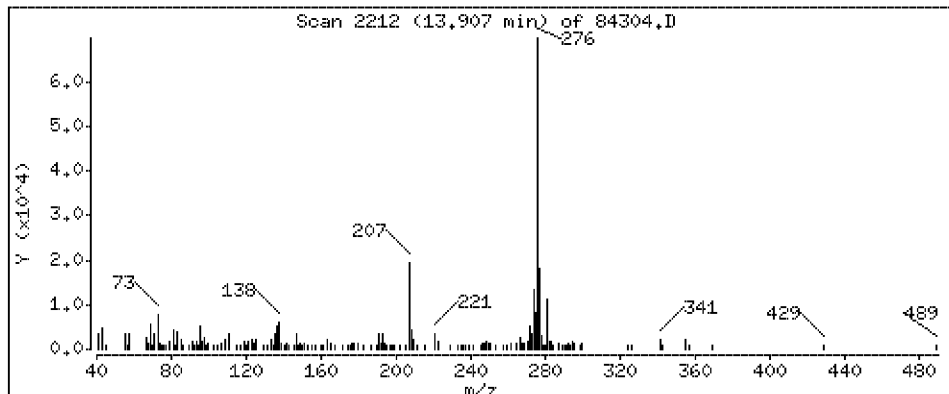
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

135 Benzo[g,h,i]perylene

Concentration: 88.6 ug/kg



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3050412.b\84305.D
 Lab Smp Id: 350584305 Client Smp ID: EPAFMC-SD-09
 Inj Date : 04-MAY-2012 14:33 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : SW350584305
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3050412.b\8270bcs.m
 Meth Date : 07-May-2012 17:35 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 18:17 Cal File: AP9CAL4.D
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.060	Weight of sample extracted (g)
M	22.300	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.354	4.352 (1.000)		152	299315	40.0000		80.00- 120.00	100.00	
4.353	4.352 (1.000)		115	183063			31.12- 91.12	61.16	
4.354	4.352 (1.000)		150	447996			117.02- 177.02	149.67	
* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.514	5.513 (1.000)		136	988530	40.0000		80.00- 120.00	100.00	
5.514	5.513 (1.000)		68	53189			0.00- 35.11	5.38	
* 70 Acenaphthene-d10 CAS #: 15067-26-2									
7.209	7.208 (1.000)		164	700644	40.0000		80.00- 120.00	100.00	
7.209	7.208 (1.000)		162	661529			66.36- 126.36	94.42	
7.208	7.208 (1.000)		160	313449			14.03- 74.03	44.74	
* 100 Phenanthrene-d10 CAS #: 1517-22-2									
8.664	8.665 (1.000)		188	1401270	40.0000		80.00- 120.00	100.00	
8.663	8.665 (1.000)		94	86804			0.00- 36.25	6.19	
8.662	8.665 (1.000)		80	108262			0.00- 37.67	7.73	
* 121 Chrysene-d12 CAS #: 1719-03-5									
11.261	11.259 (1.000)		240	1876970	40.0000		80.00- 120.00	100.00	

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
* 121 Chrysene-d12 (continued)									
11.260	11.259	(1.000)	120	101158			0.00-	34.90	5.39
11.261	11.259	(1.000)	236	501368			0.00-	56.56	26.71

* 130 Perylene-d12					CAS #: 1520-96-3				
12.593	12.576	(1.000)	264	1864948	40.0000		80.00-	120.00	100.00
12.593	12.576	(1.000)	260	469780			0.00-	54.67	25.19
12.593	12.576	(1.000)	265	441111			0.00-	53.09	23.65

Date : 04-MAY-2012 14:33

Client ID: EPAFMC-SD-09

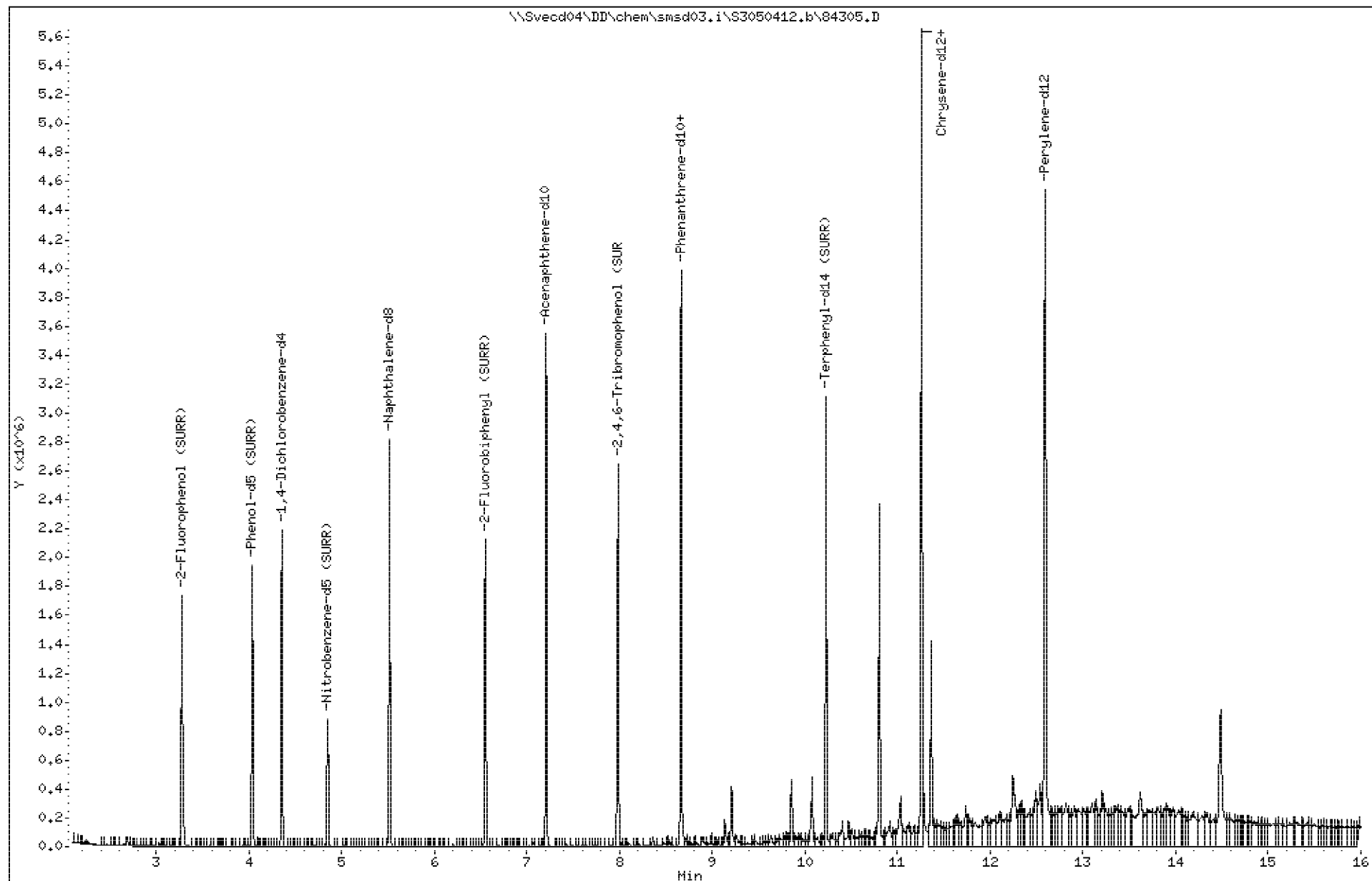
Sample Info: SN350584305

Instrument: smsd03.i

Operator: PEL

Column diameter: 0.25

Column phase: HPMS-5



Date : 04-MAY-2012 14:33

Client ID: EPAFMC-SD-09

Instrument: smsd03.i

Sample Info: SW350584305

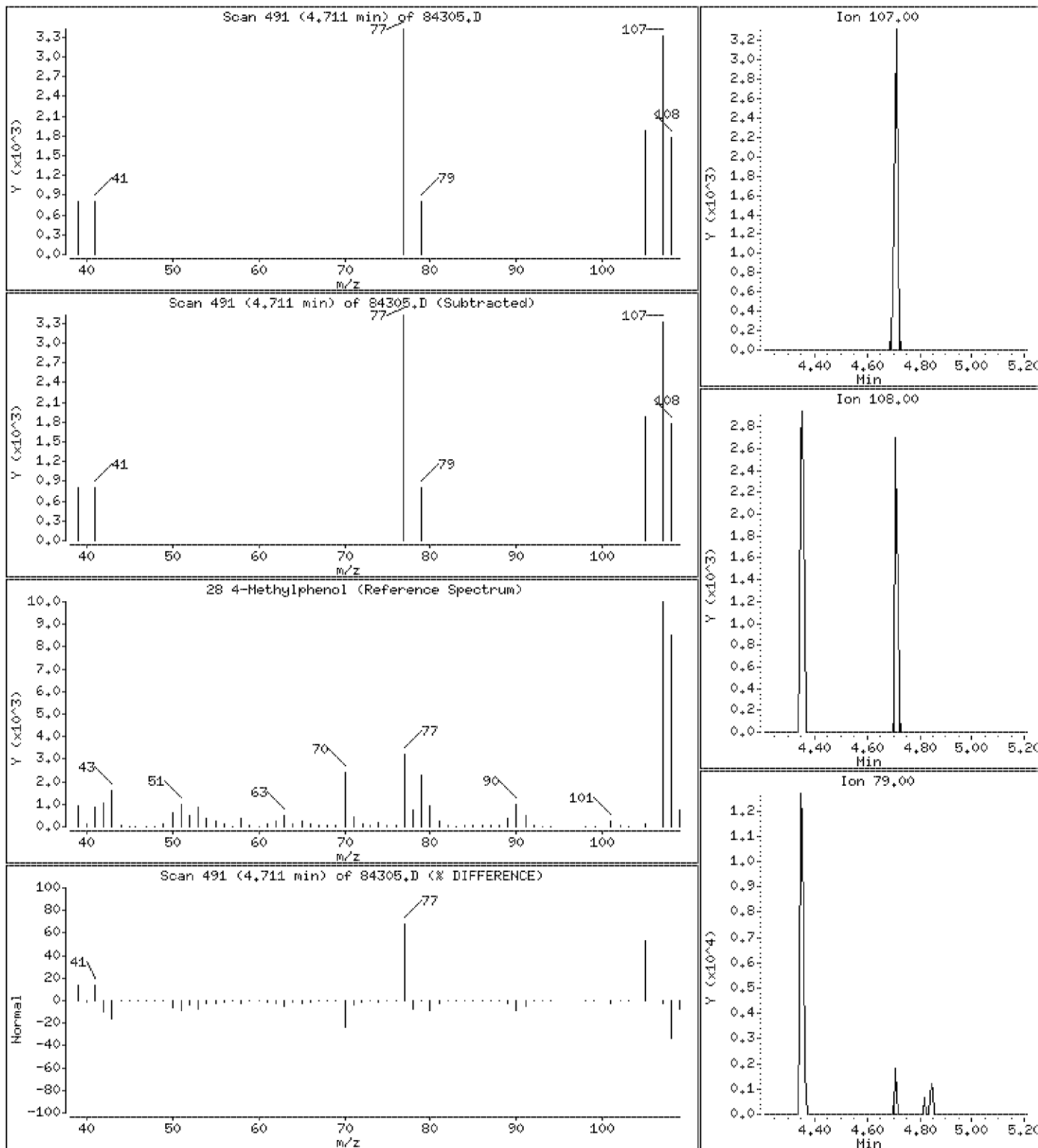
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

28 4-Methylphenol

Concentration: 13.2 ug/kg



Date : 04-MAY-2012 14:33

Client ID: EPAFMC-SD-09

Instrument: smsd03.i

Sample Info: SW350584305

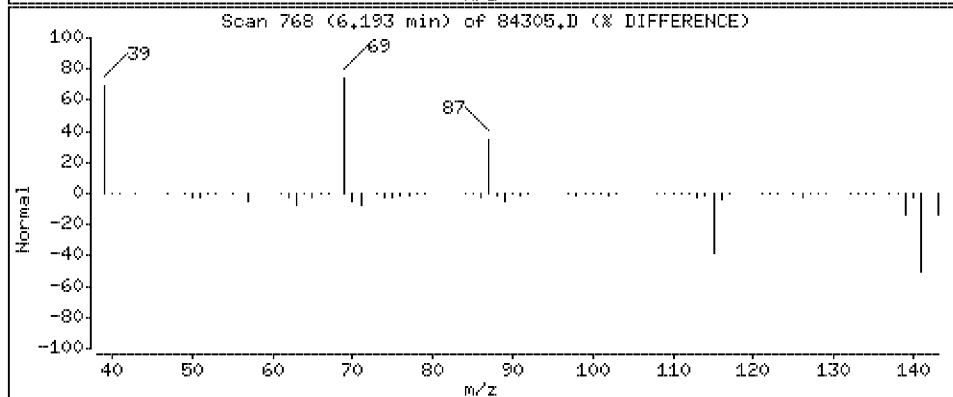
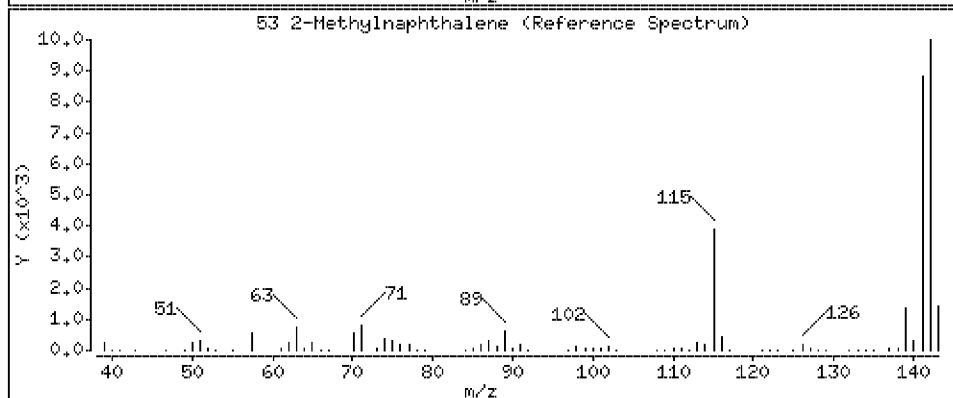
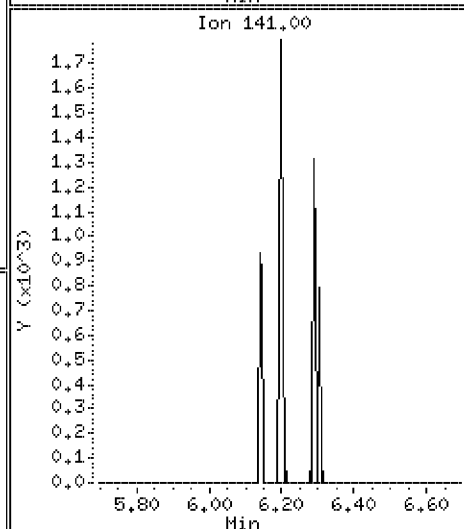
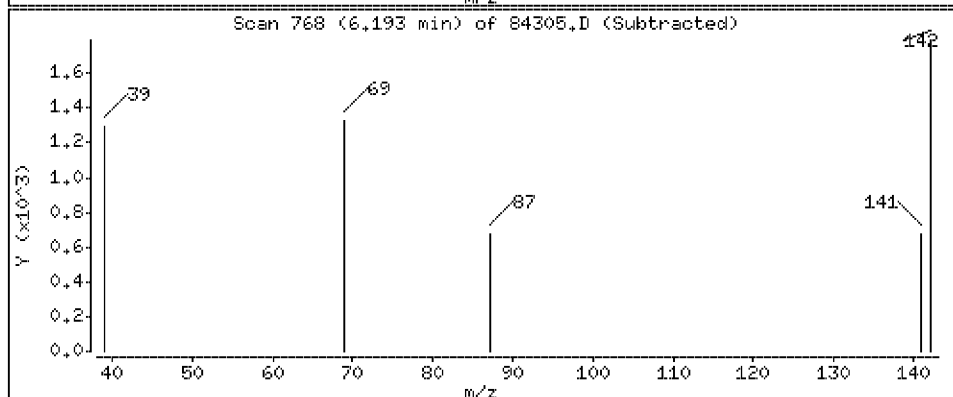
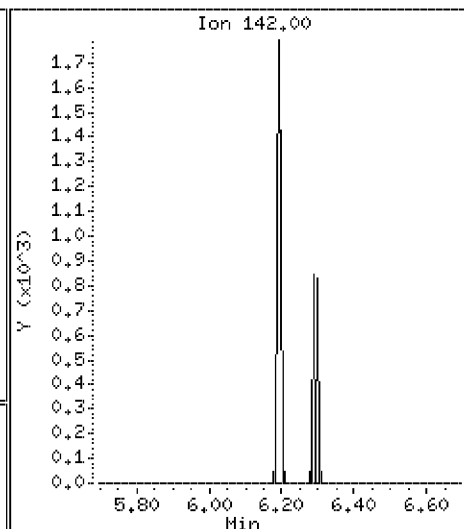
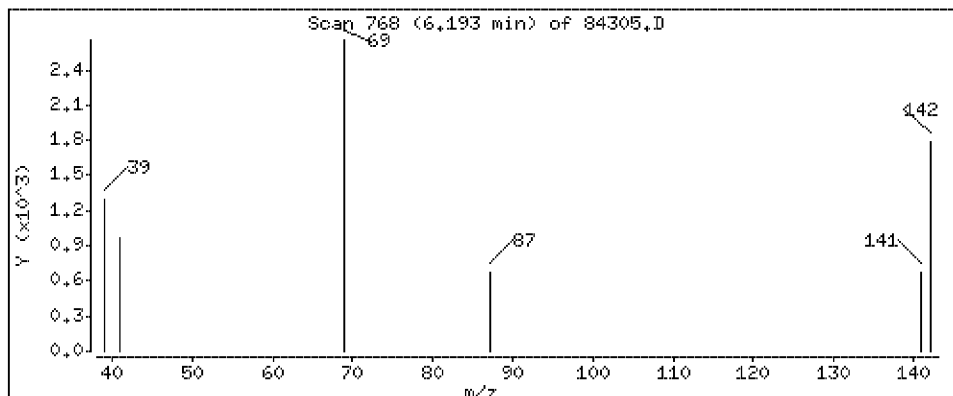
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

53 2-Methylnaphthalene

Concentration: 3.5 ug/kg



Date : 04-MAY-2012 14:33

Client ID: EPAFMC-SD-09

Instrument: smsd03.i

Sample Info: SW350584305

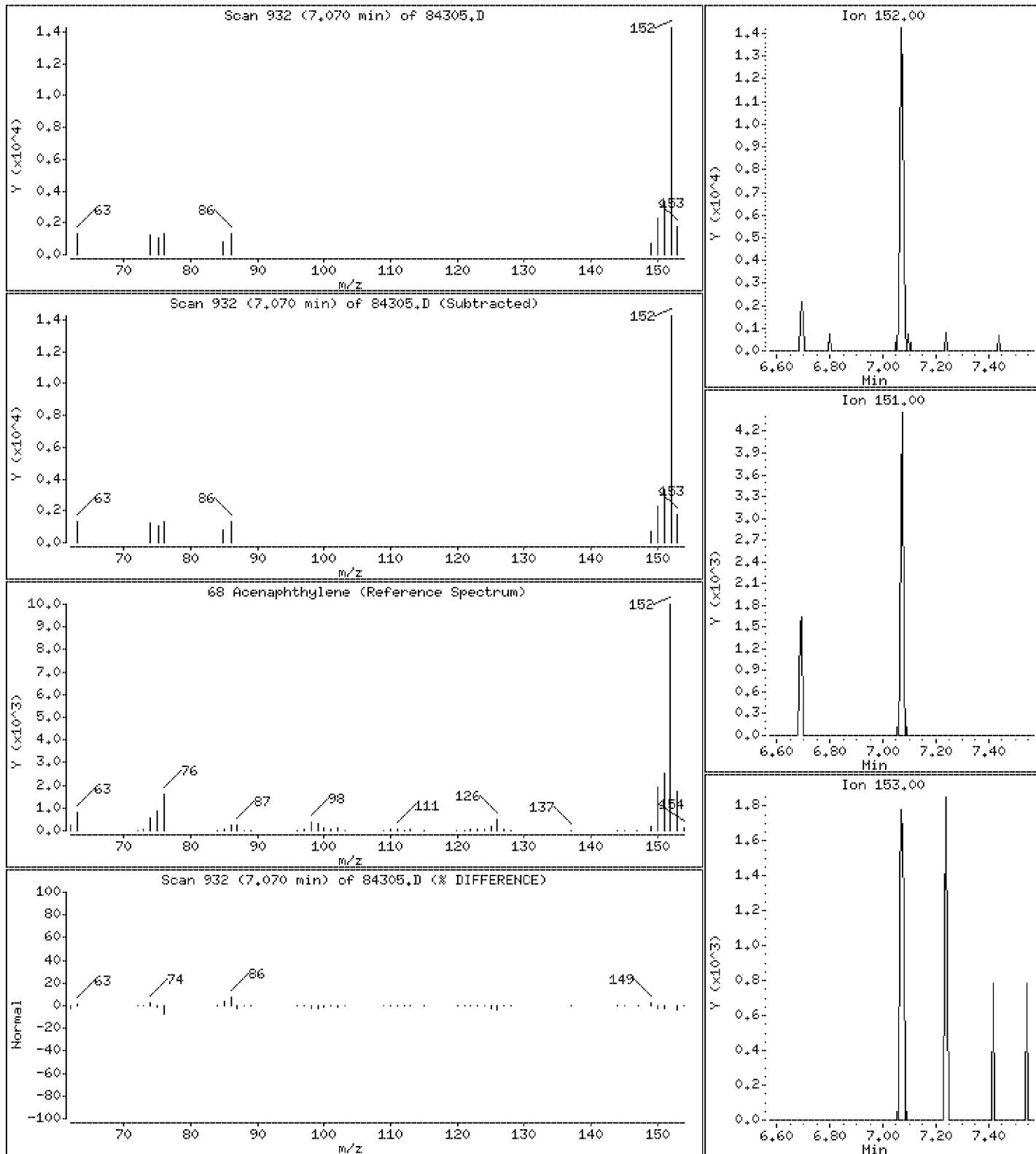
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

68 Acenaphthylene

Concentration: 22,5 ug/kg



Date : 04-MAY-2012 14:33

Client ID: EPAFMC-SD-09

Instrument: smsd03.i

Sample Info: SW350584305

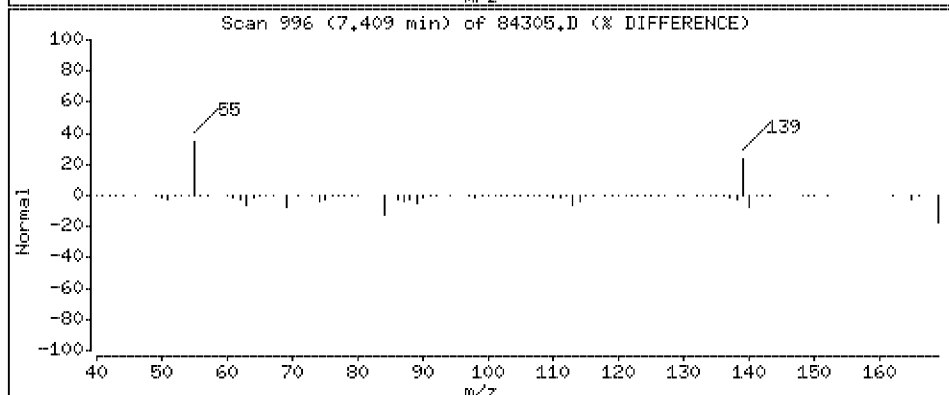
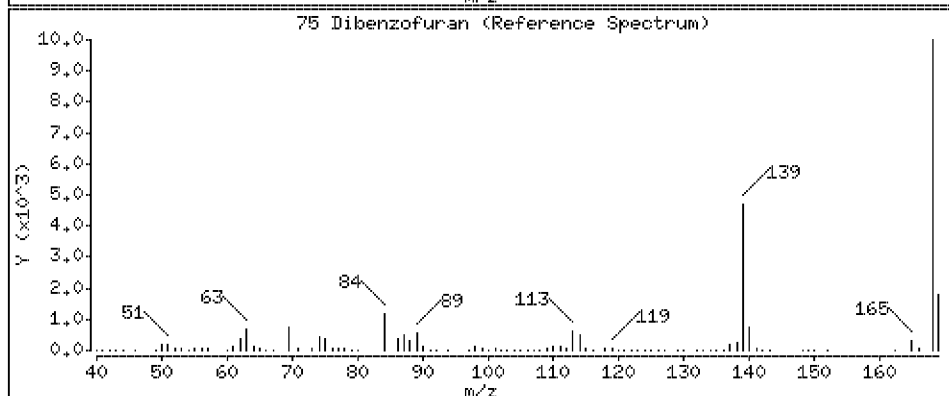
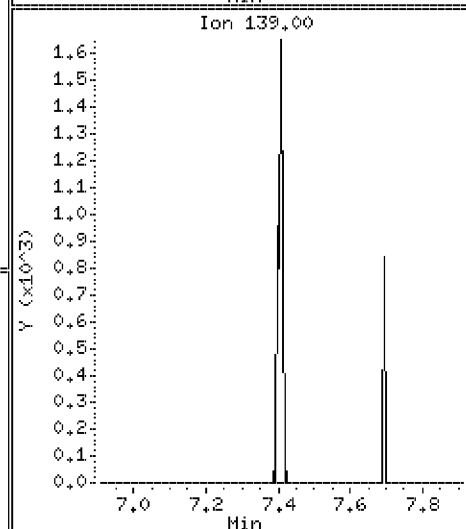
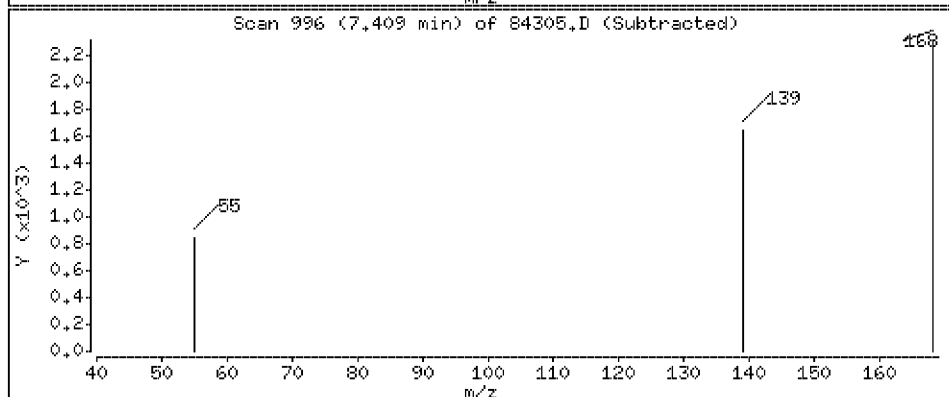
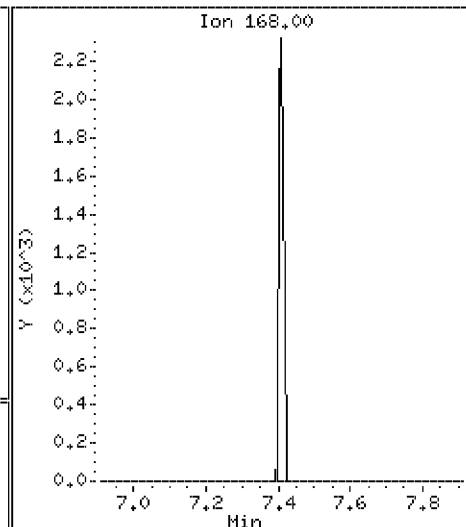
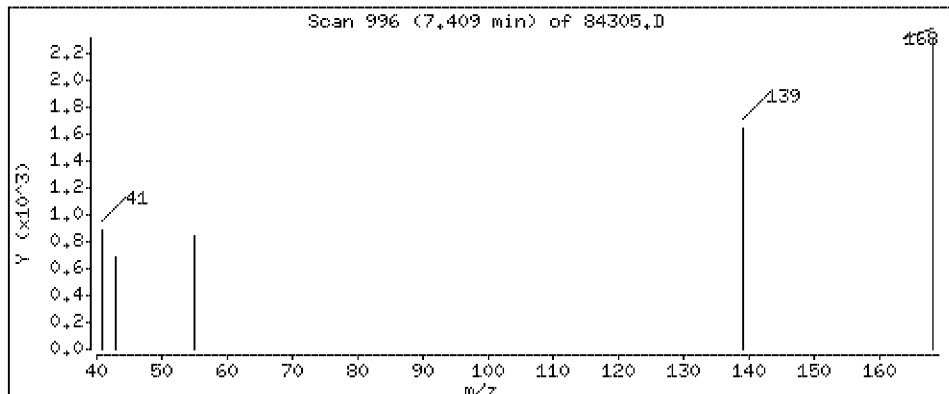
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

75 Dibenzofuran

Concentration: 2.9 ug/kg



Date : 04-MAY-2012 14:33

Client ID: EPAFMC-SD-09

Instrument: smsd03.i

Sample Info: SW350584305

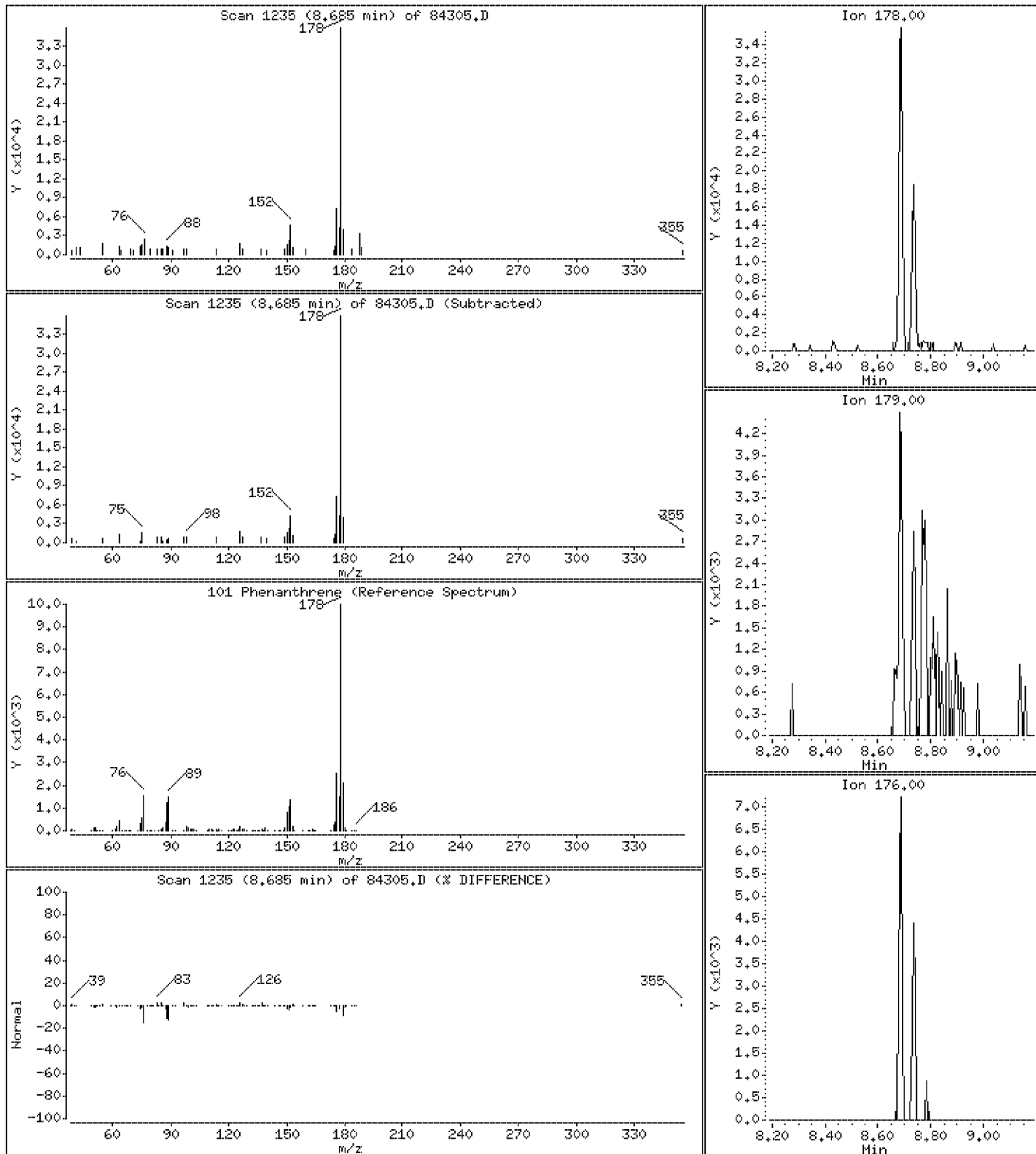
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

101 Phenanthrene

Concentration: 47.0 ug/kg



Date : 04-MAY-2012 14:33

Client ID: EPAFMC-SD-09

Instrument: smsd03.i

Sample Info: SW350584305

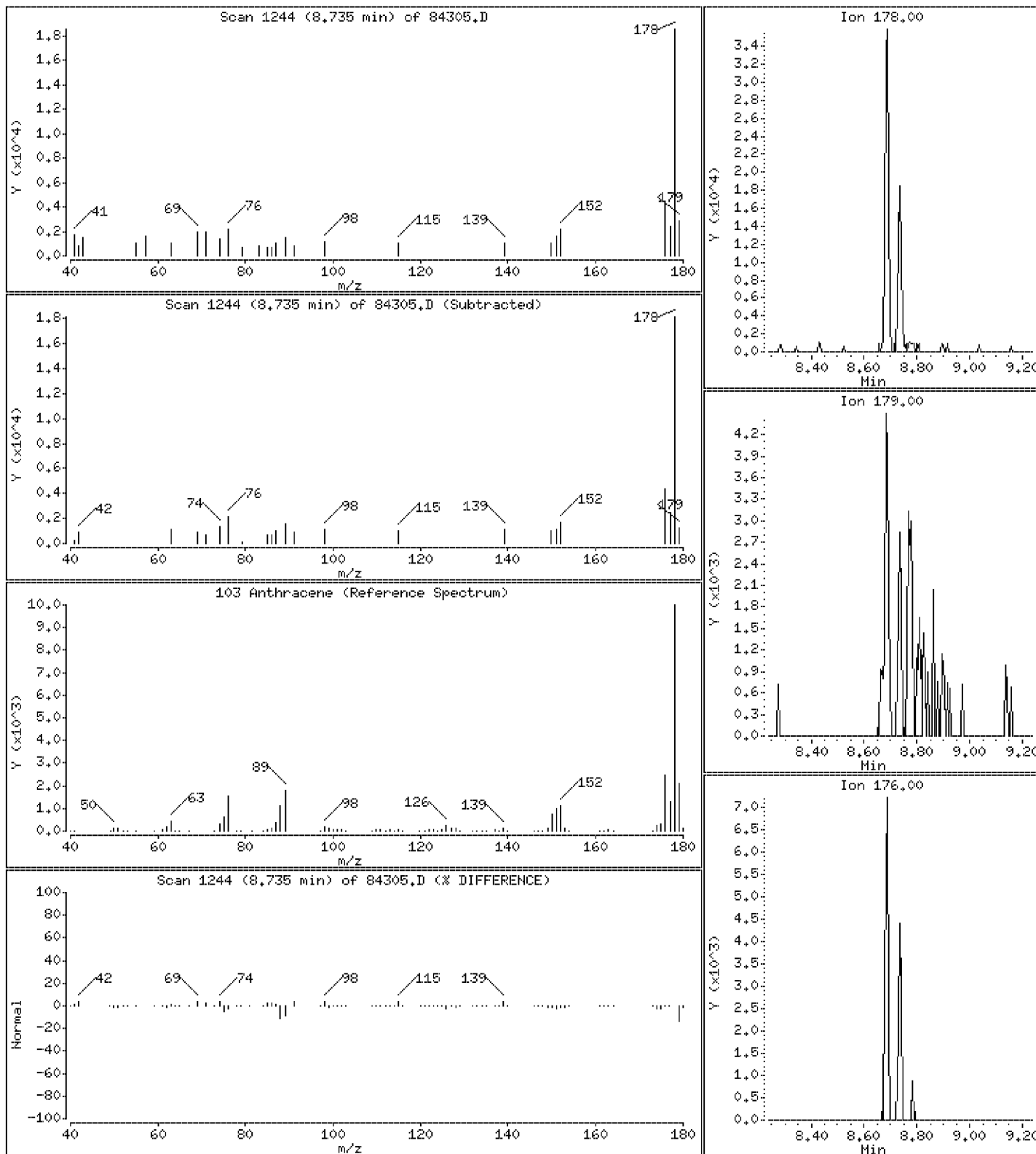
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

103 Anthracene

Concentration: 23.6 ug/kg



Date : 04-MAY-2012 14:33

Client ID: EPAFMC-SD-09

Instrument: smsd03.i

Sample Info: SW350584305

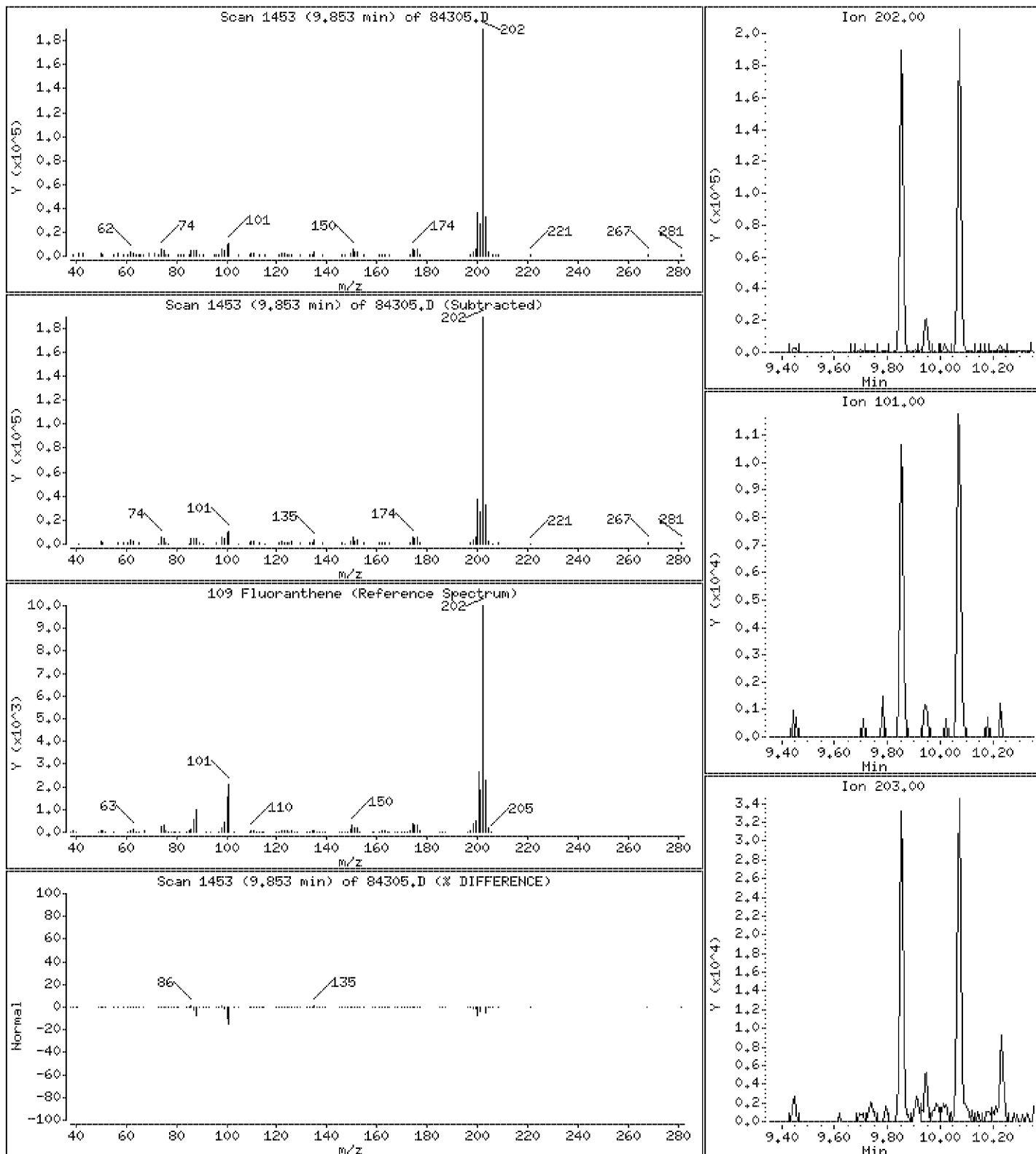
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

109 Fluoranthene

Concentration: 214 ug/kg



Date : 04-MAY-2012 14:33

Client ID: EPAFMC-SD-09

Instrument: smsd03.i

Sample Info: SW350584305

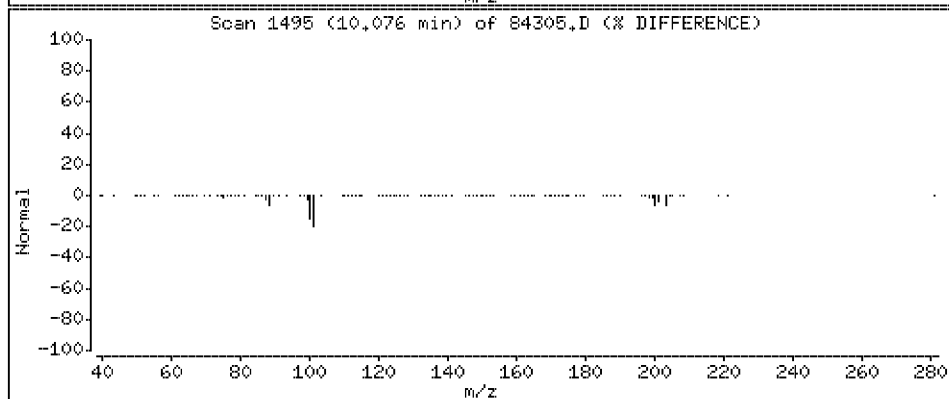
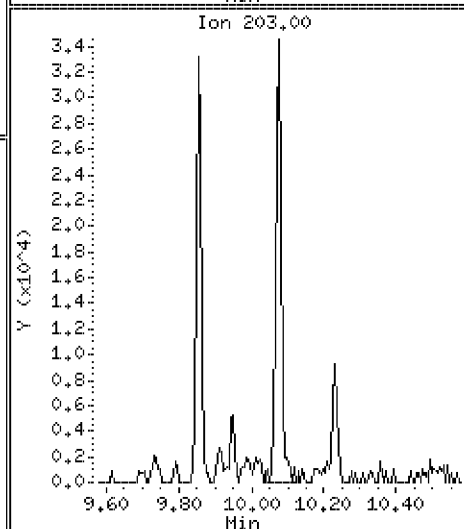
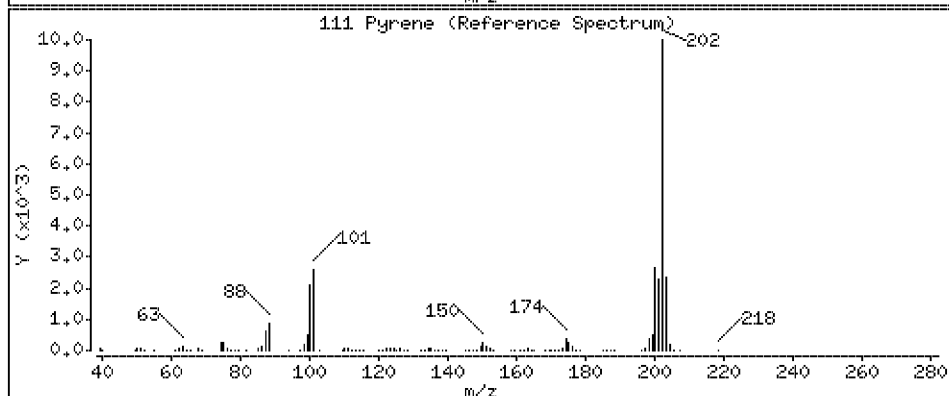
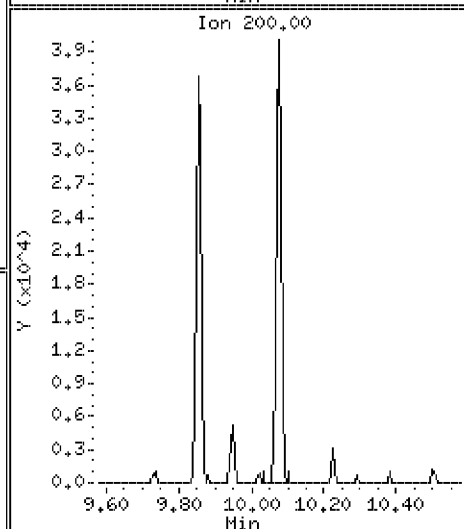
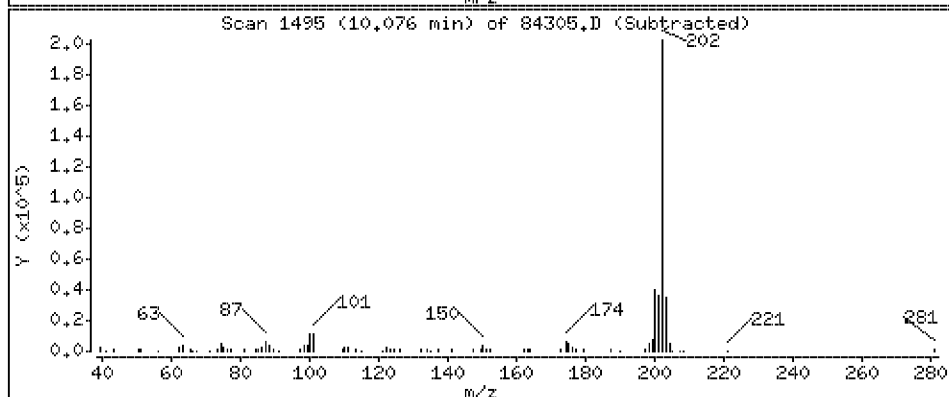
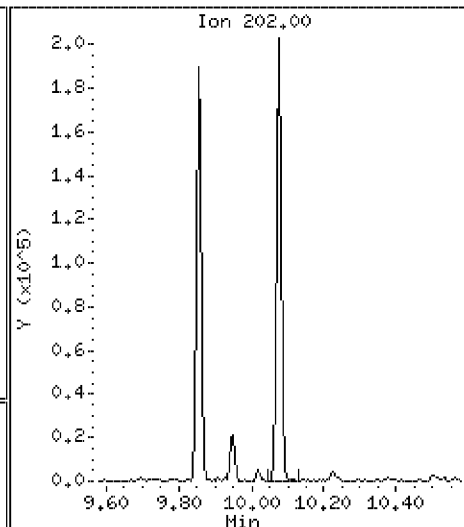
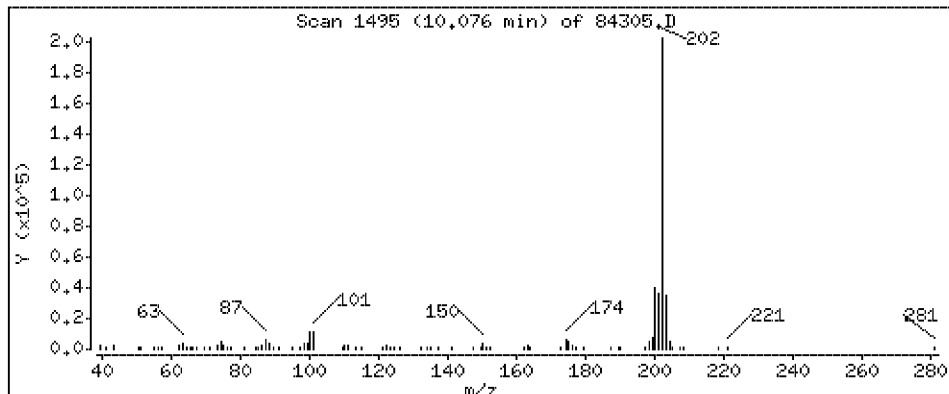
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

111 Pyrene

Concentration: 252 ug/kg



Date : 04-MAY-2012 14:33

Client ID: EPAFMC-SD-09

Instrument: smsd03.i

Sample Info: SW350584305

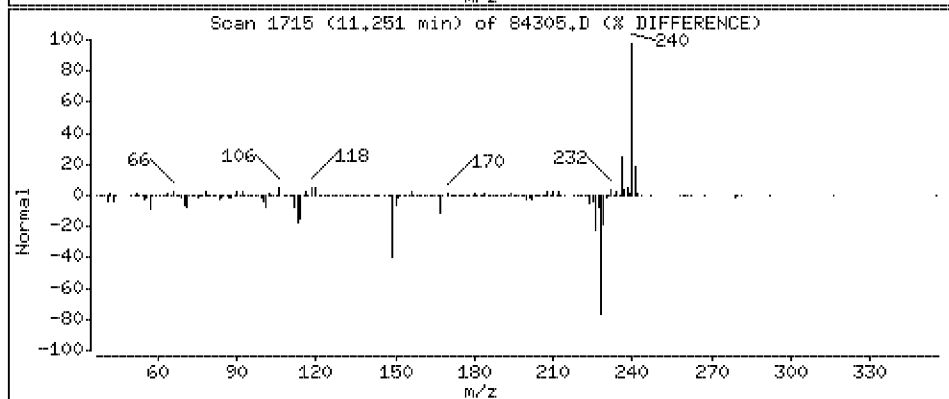
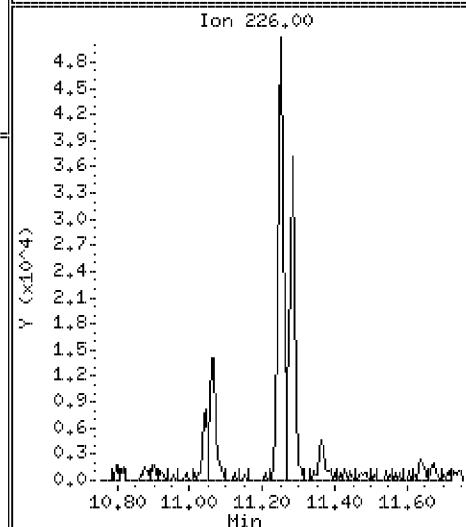
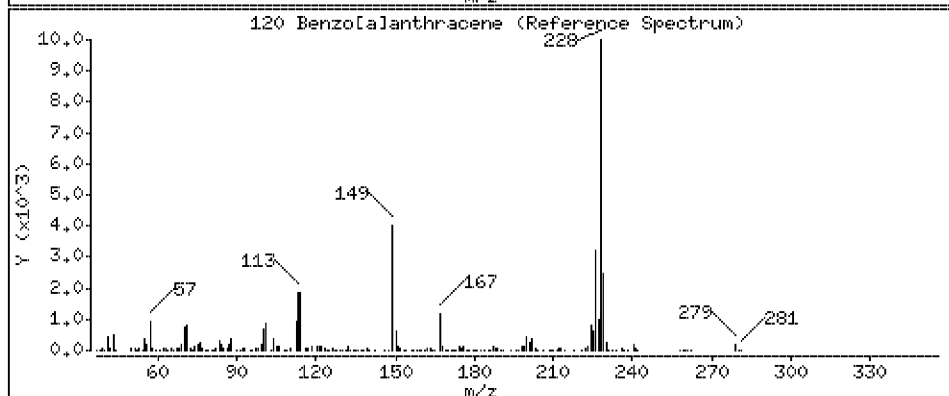
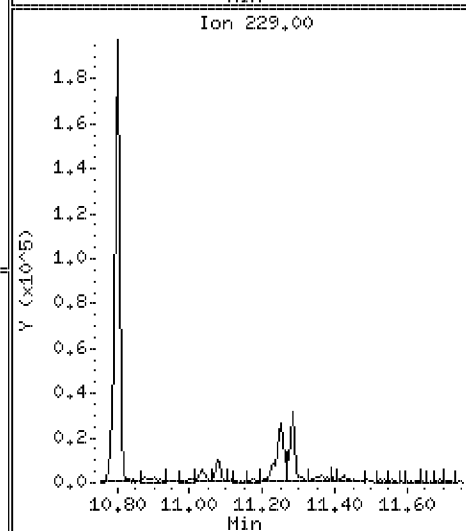
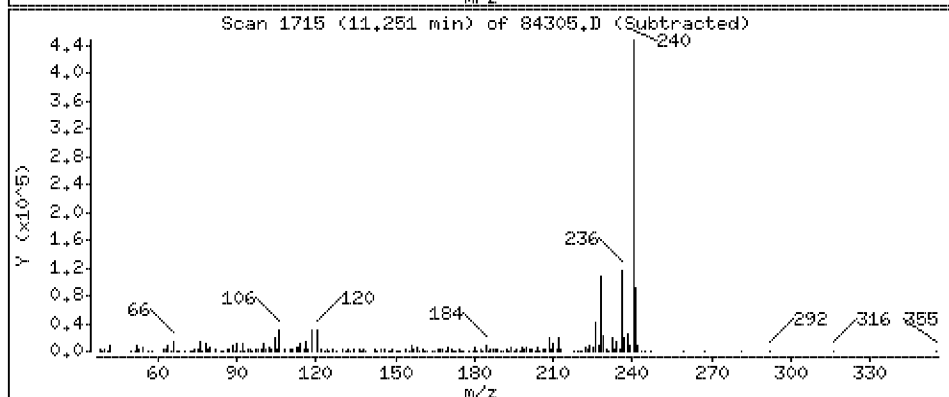
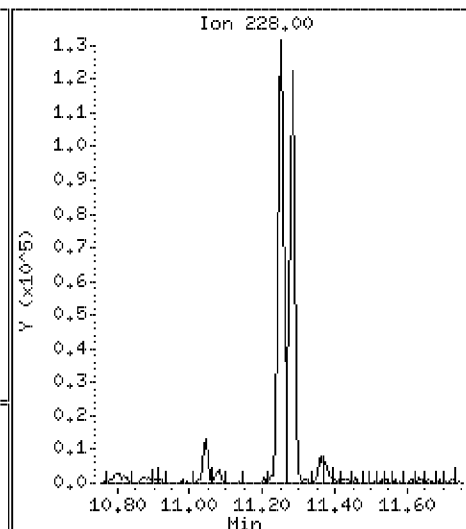
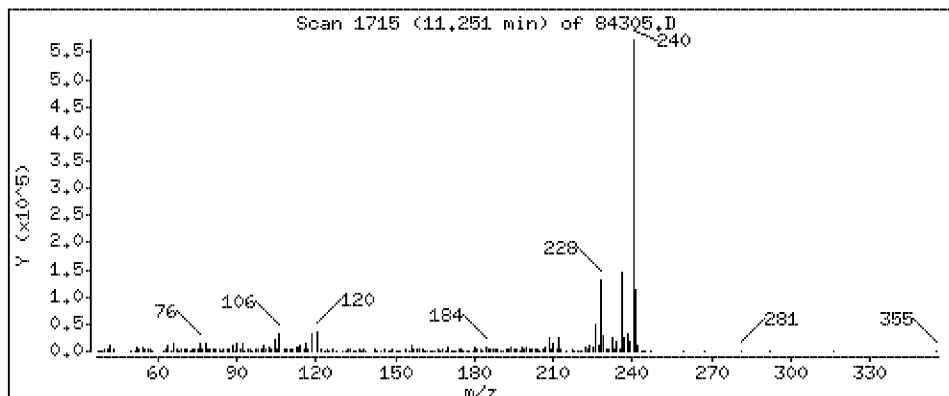
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

120 Benzo[*a*]anthracene

Concentration: 161 ug/kg



Date : 04-MAY-2012 14:33

Client ID: EPAFMC-SD-09

Instrument: smsd03.i

Sample Info: SW350584305

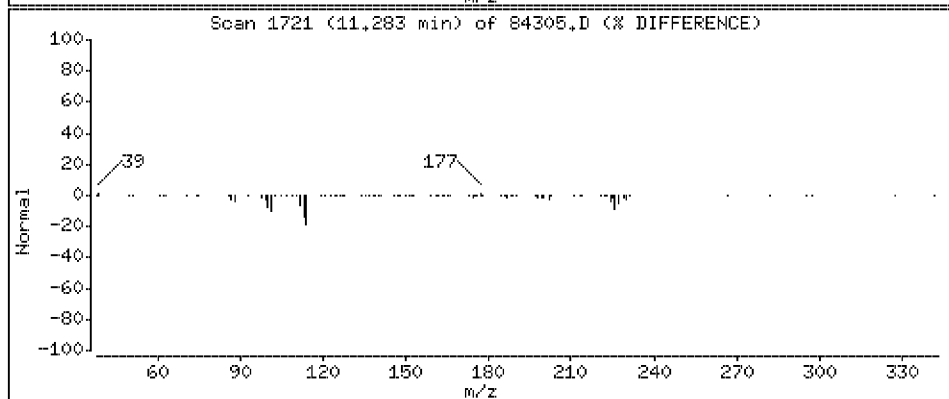
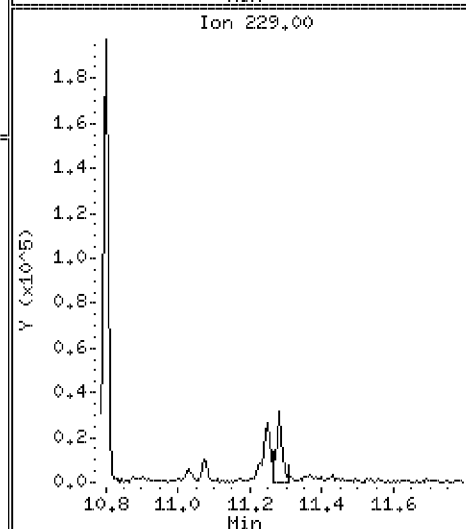
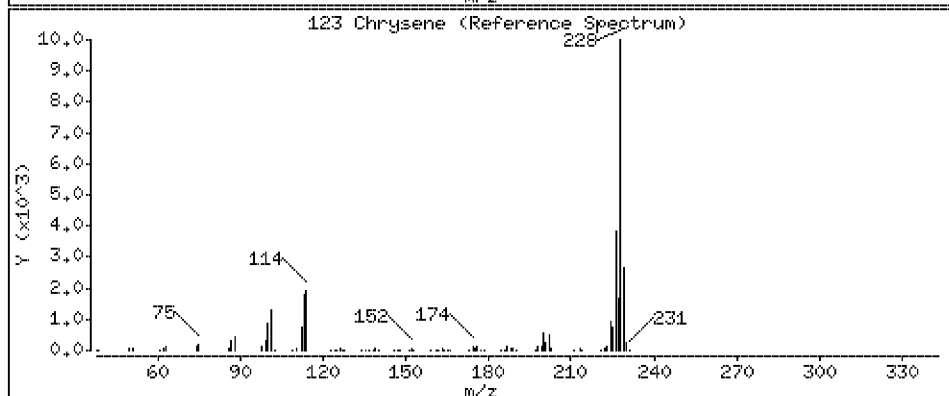
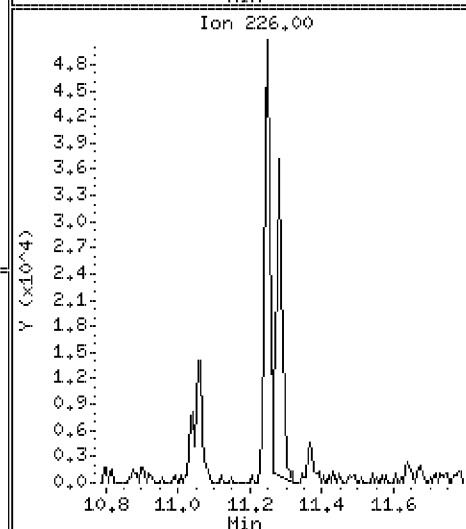
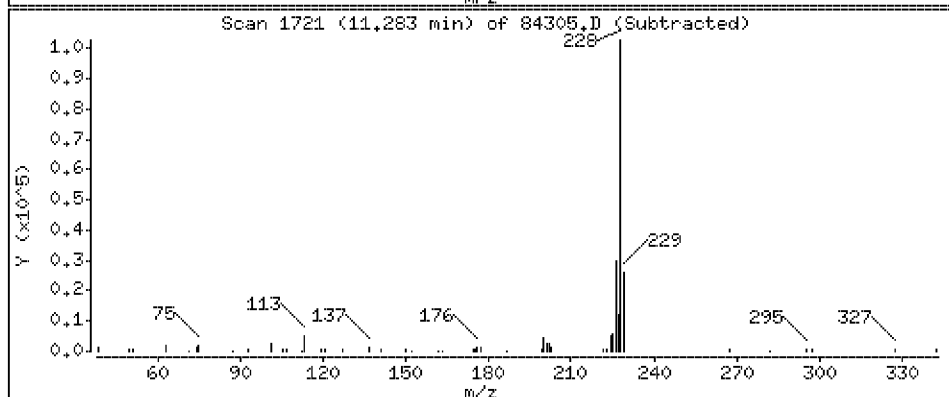
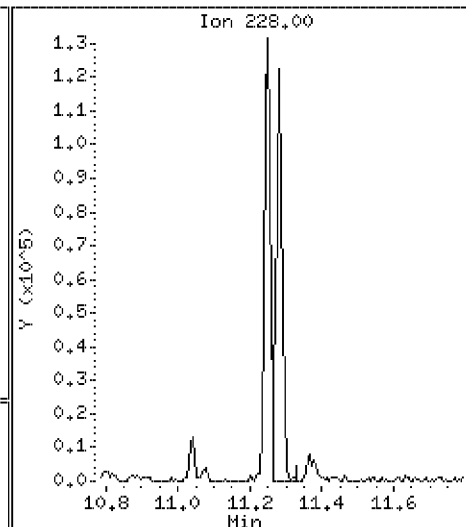
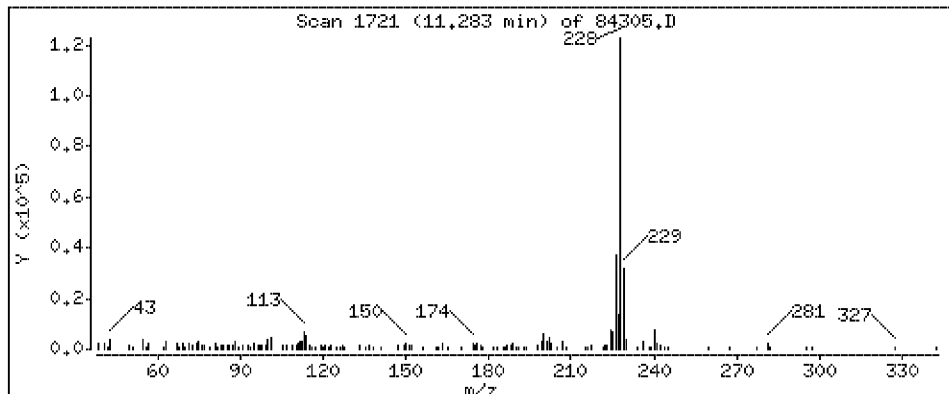
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

123 Chrysene

Concentration: 161 ug/kg



Date : 04-MAY-2012 14:33

Client ID: EPAFMC-SD-09

Instrument: smsd03.i

Sample Info: SW350584305

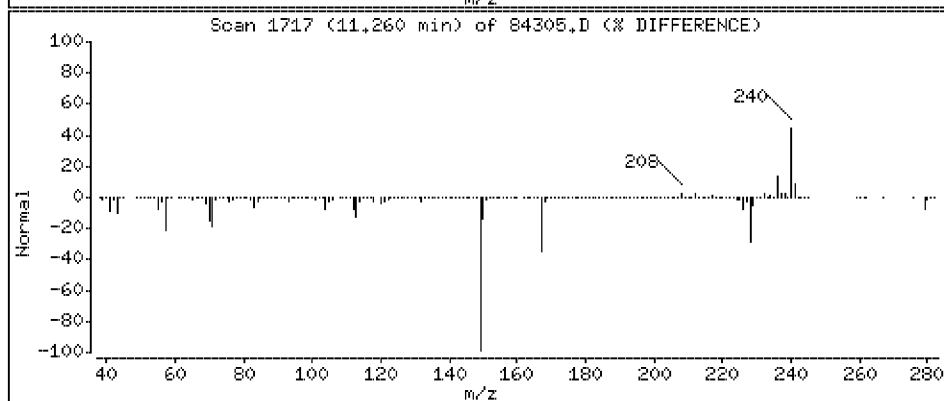
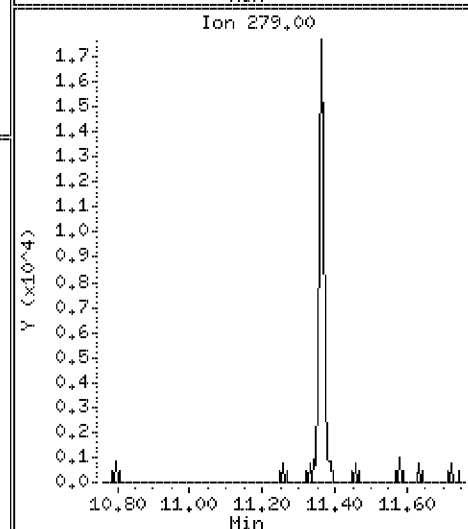
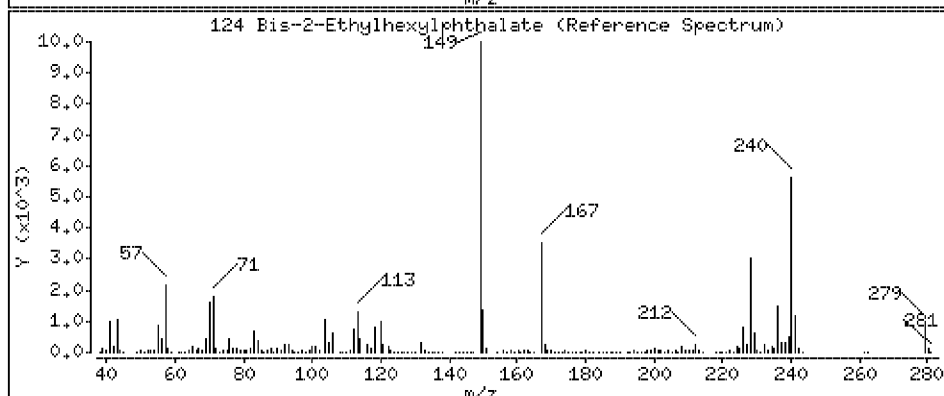
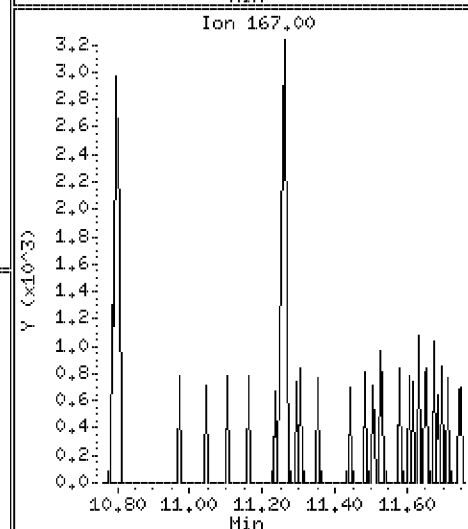
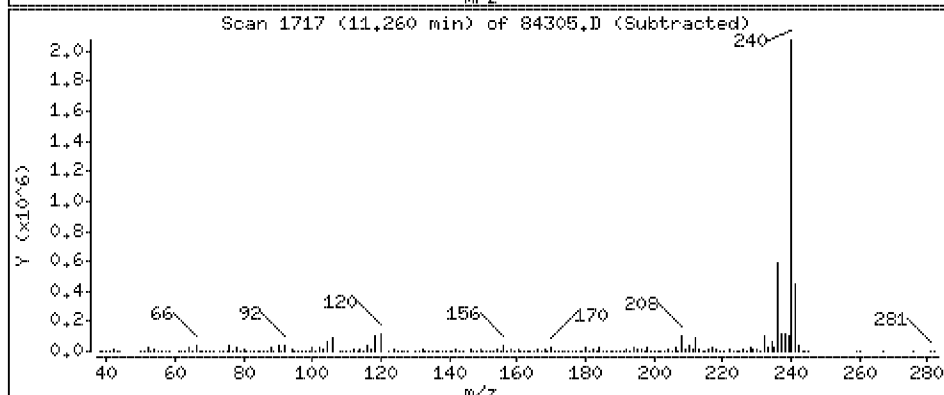
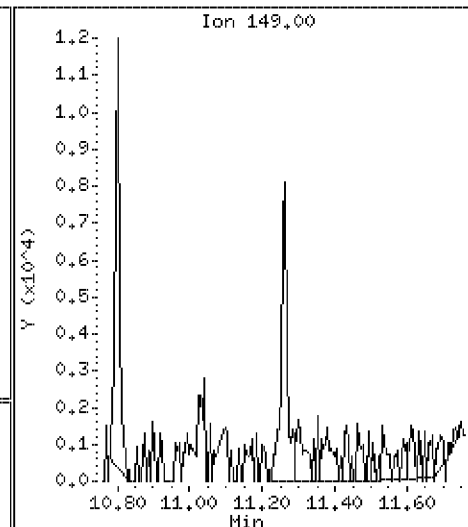
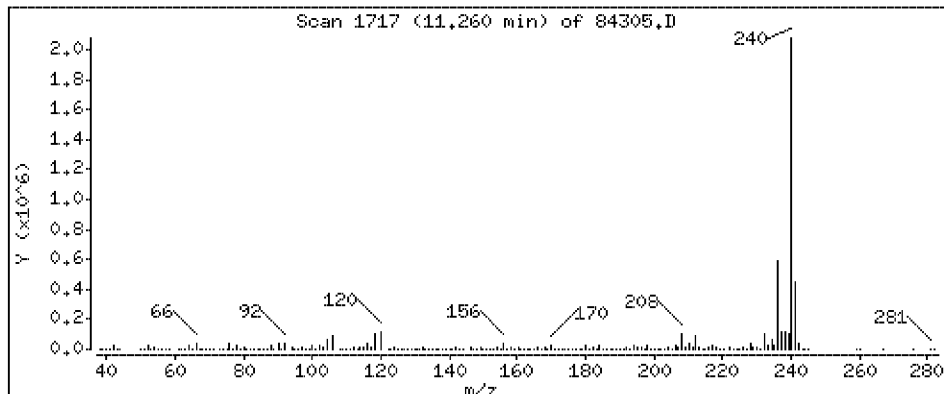
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

124 Bis-2-Ethylhexylphthalate

Concentration: 17.5 ug/kg



Date : 04-MAY-2012 14:33

Client ID: EPAFMC-SD-09

Instrument: smsd03.i

Sample Info: SW350584305

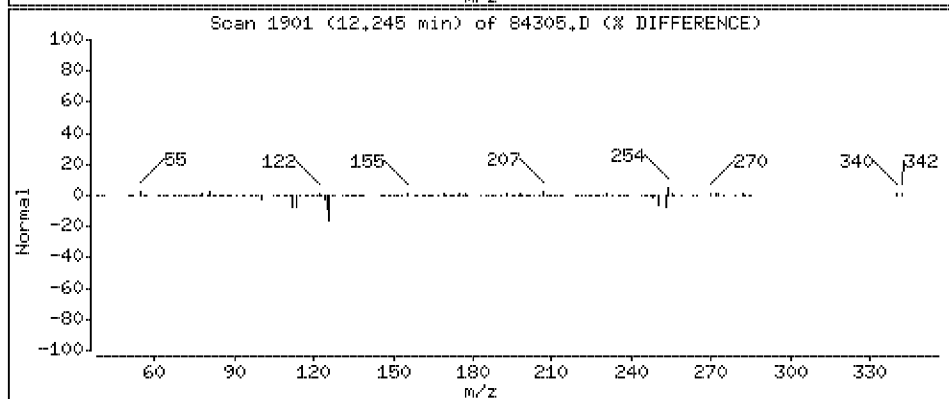
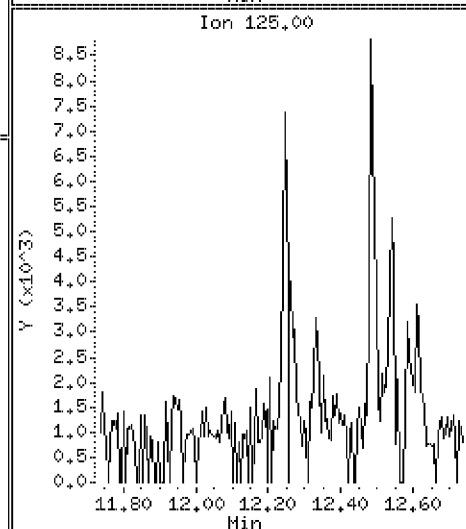
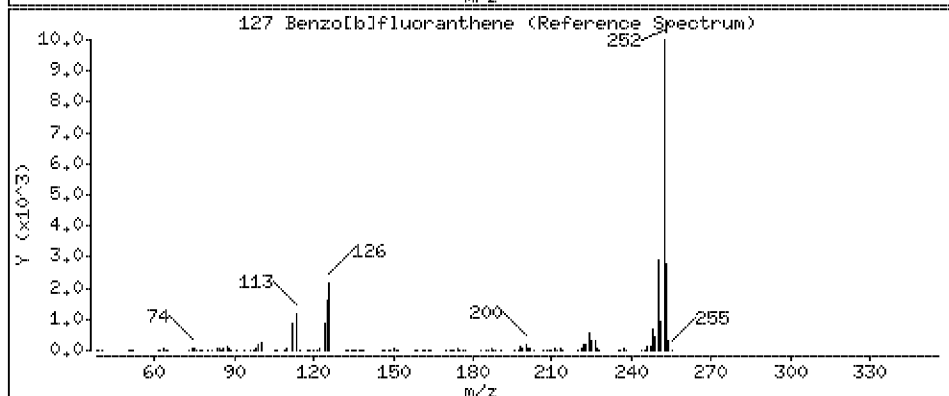
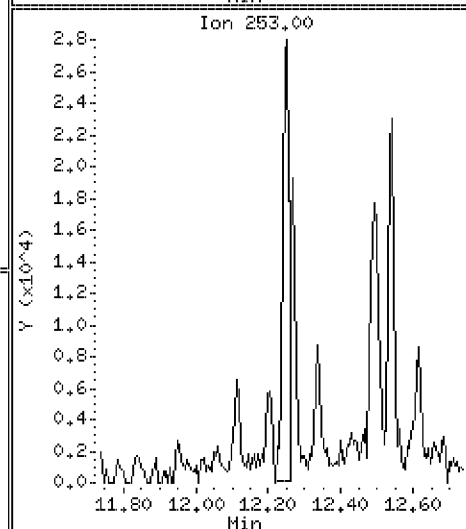
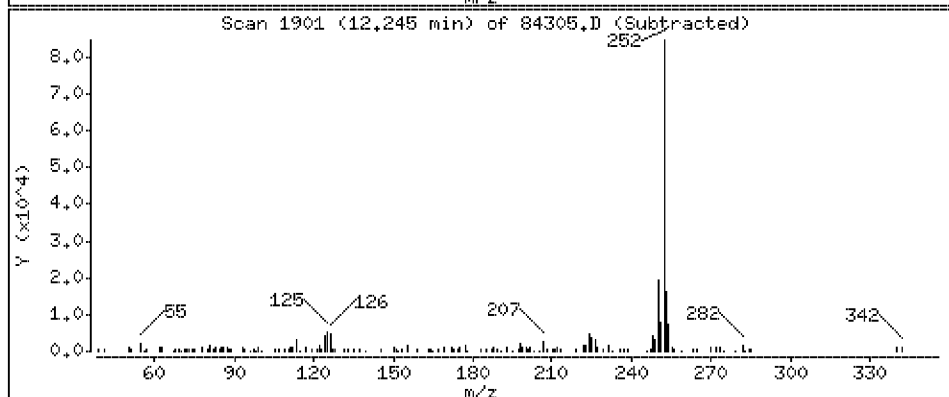
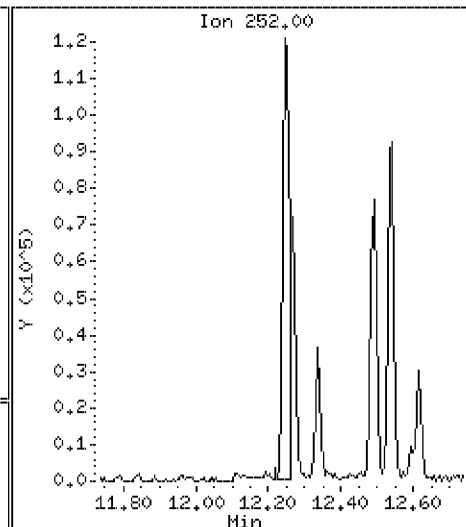
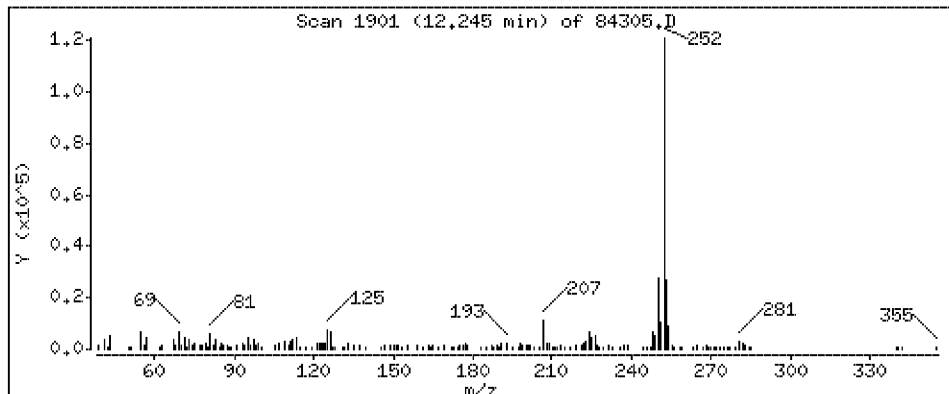
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

127 Benzo[b]fluoranthene

Concentration: 163 ug/kg



Date : 04-MAY-2012 14:33

Client ID: EPAFMC-SD-09

Instrument: smsd03.i

Sample Info: SW350584305

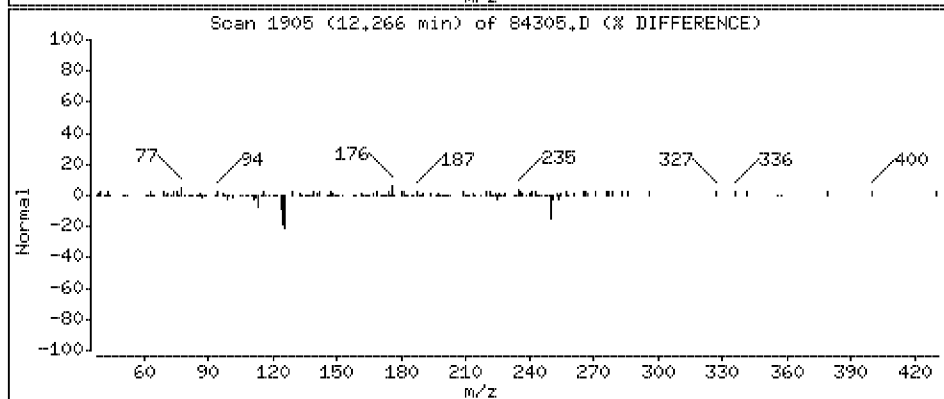
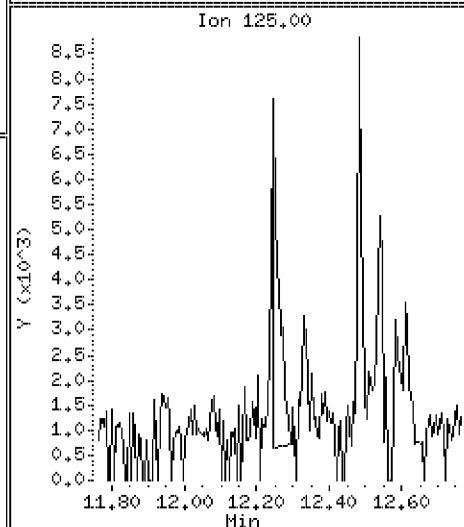
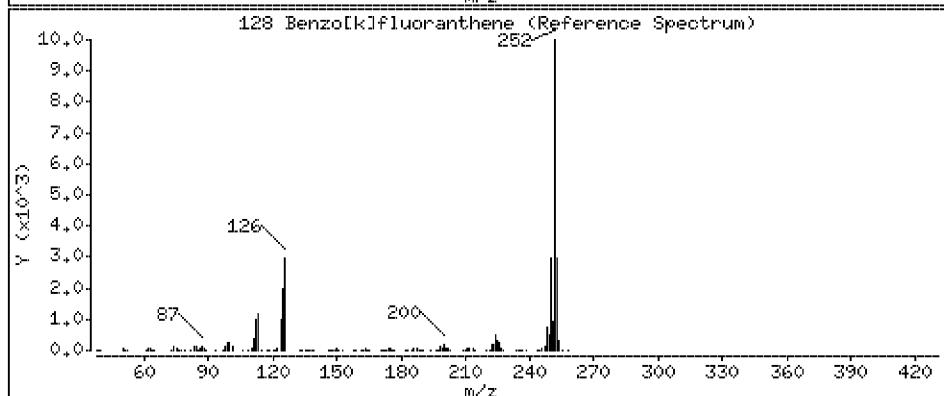
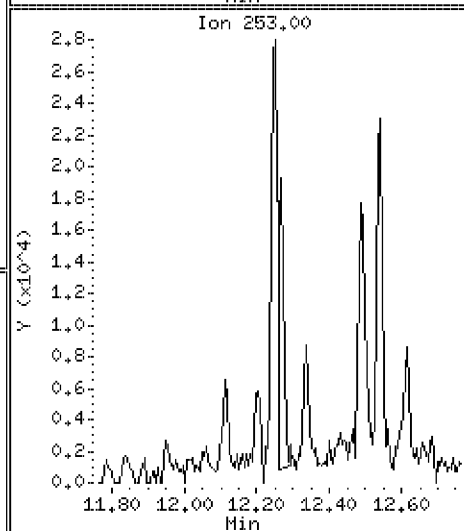
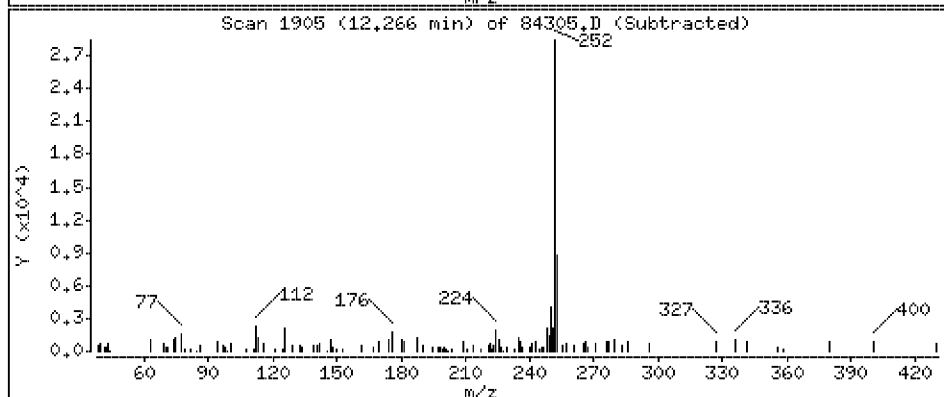
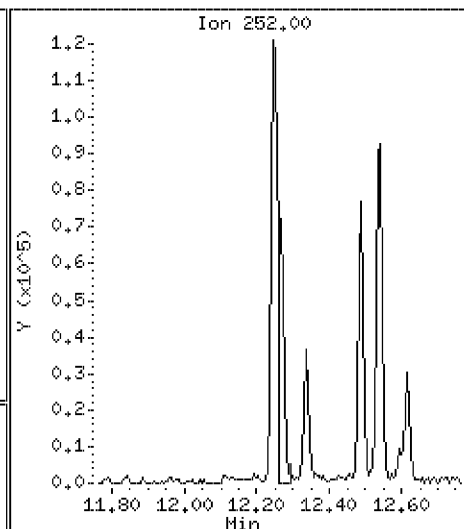
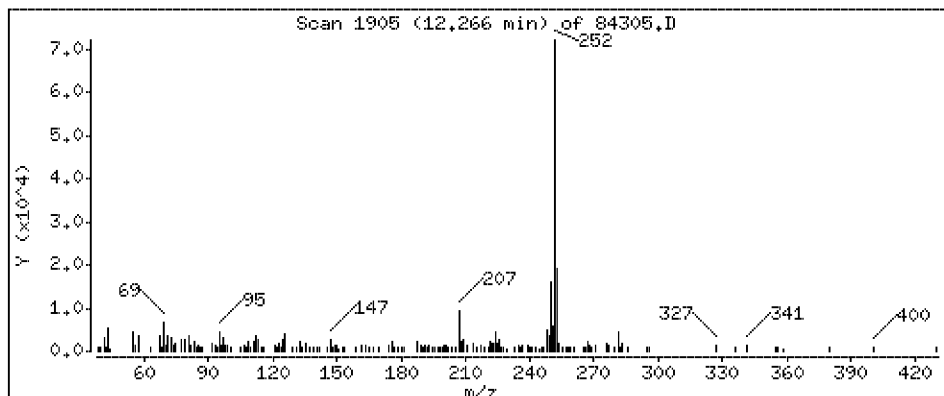
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

128 Benzo[k]fluoranthene

Concentration: 77.4 ug/kg



Date : 04-MAY-2012 14:33

Client ID: EPAFMC-SD-09

Instrument: smsd03.i

Sample Info: SW350584305

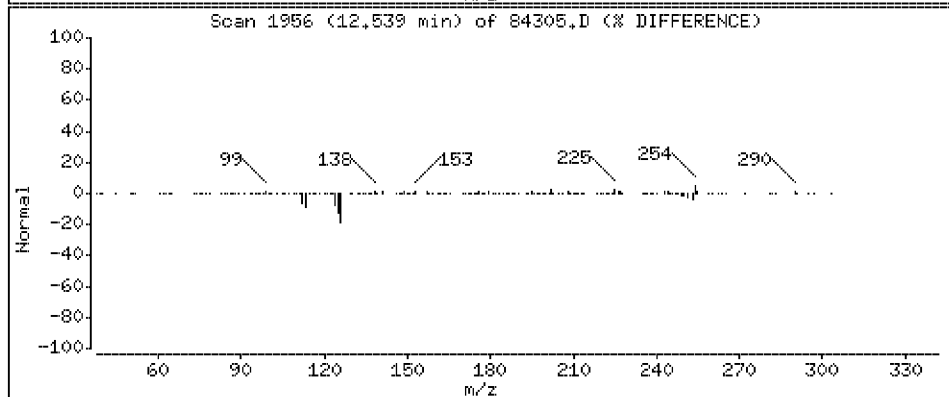
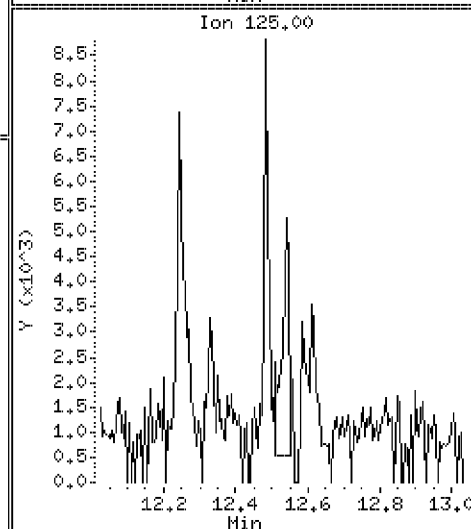
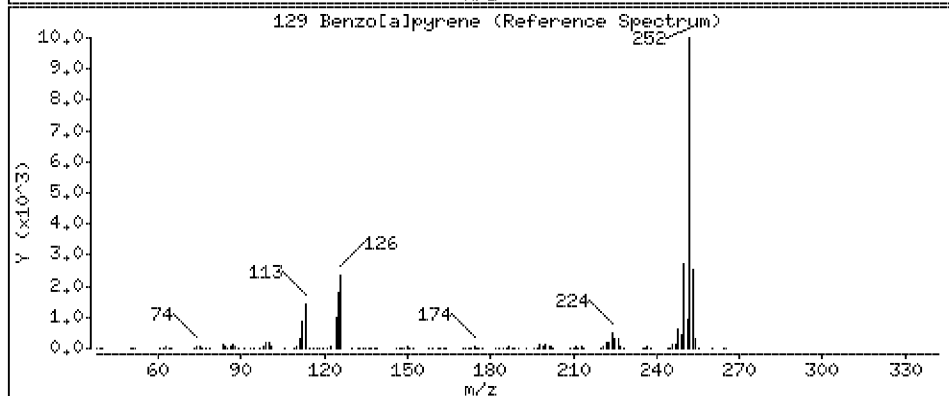
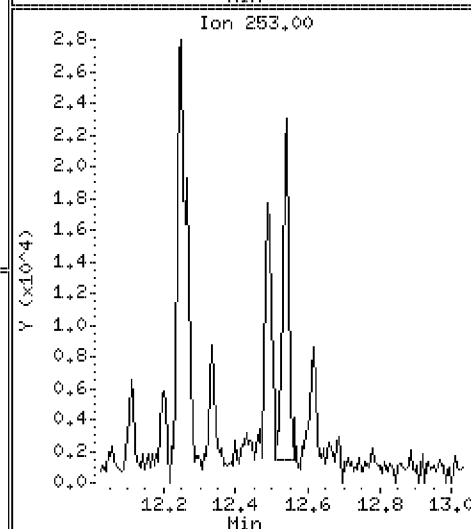
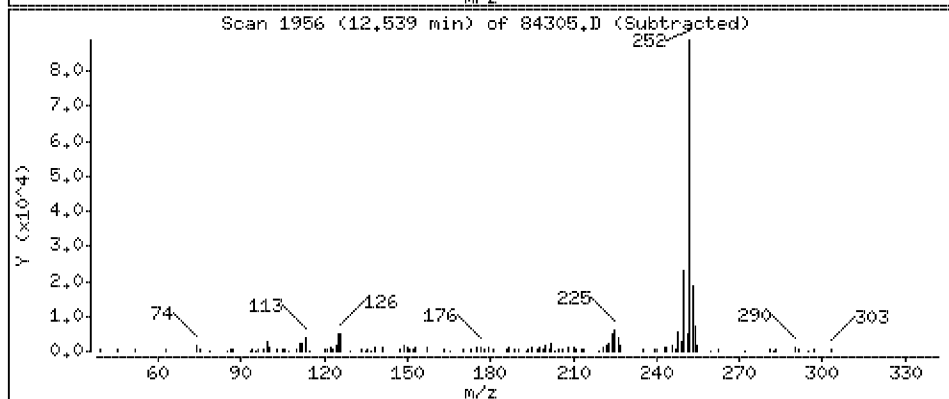
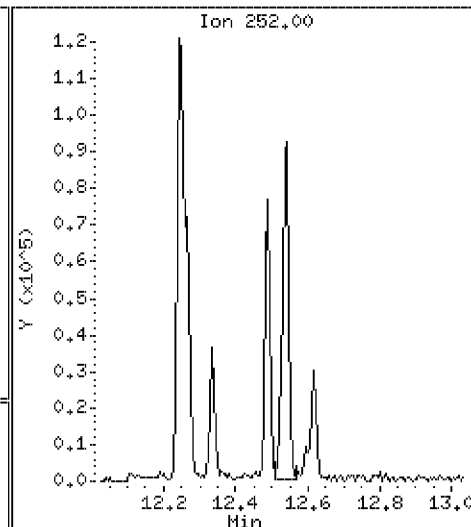
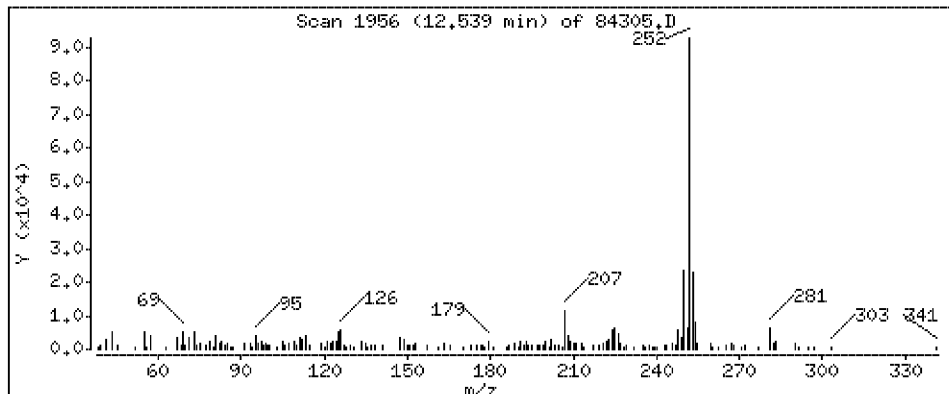
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

129 Benzo[al]pyrene

Concentration: 108 ug/kg



Date : 04-MAY-2012 14:33

Client ID: EPAFMC-SD-09

Instrument: smsd03.i

Sample Info: SW350584305

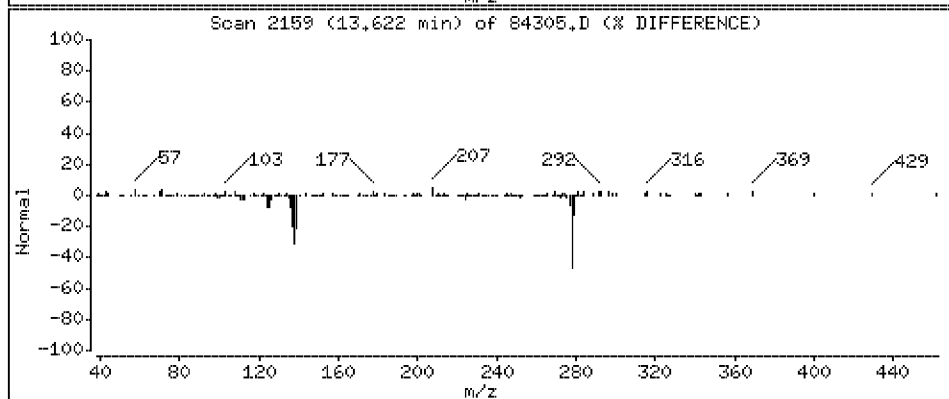
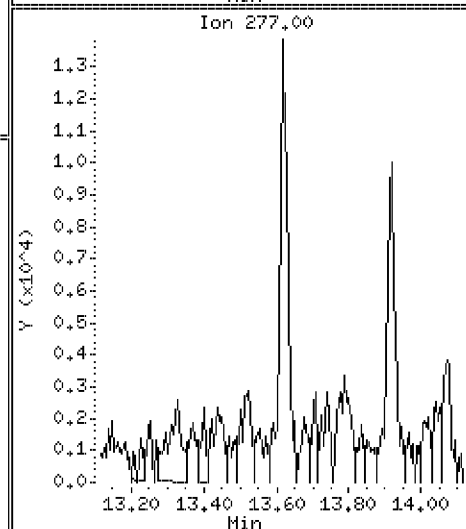
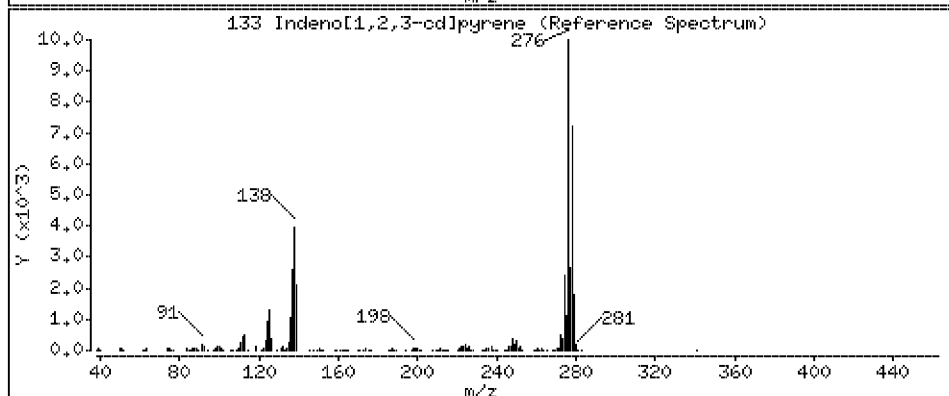
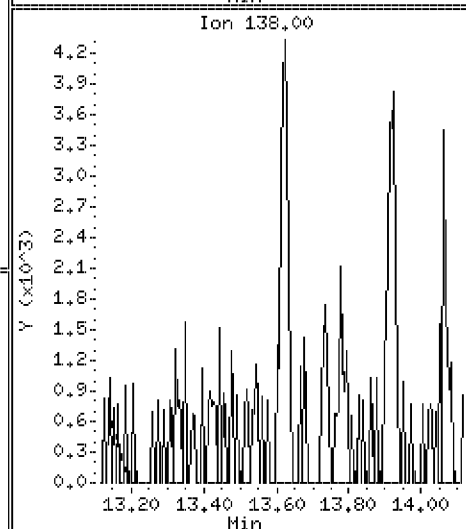
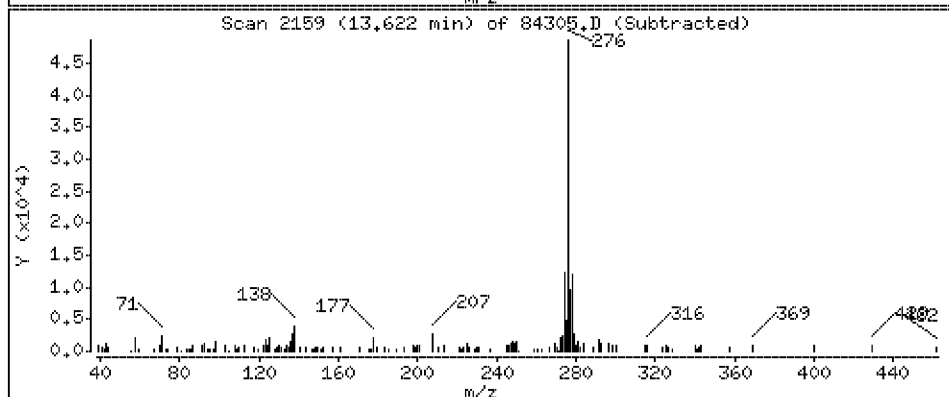
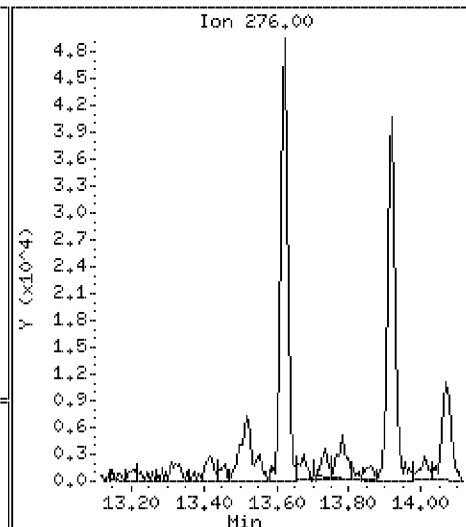
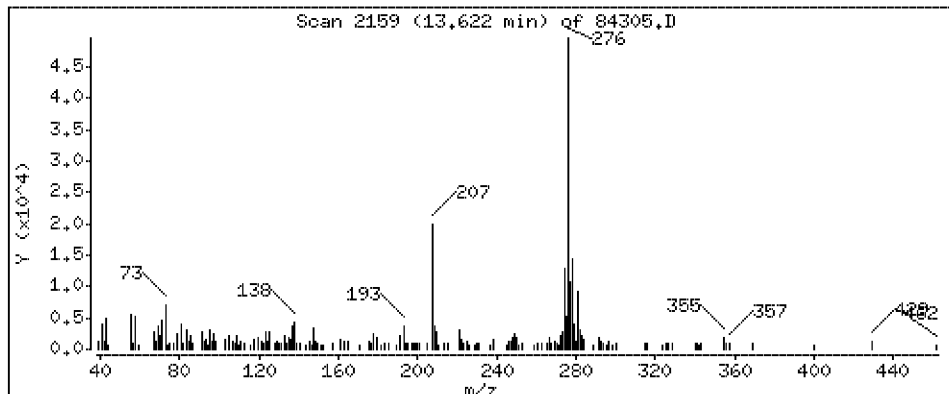
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

133 Indeno[1,2,3-cd]pyrene

Concentration: 57.9 ug/kg



Date : 04-MAY-2012 14:33

Client ID: EPAFMC-SD-09

Instrument: smsd03.i

Sample Info: SW350584305

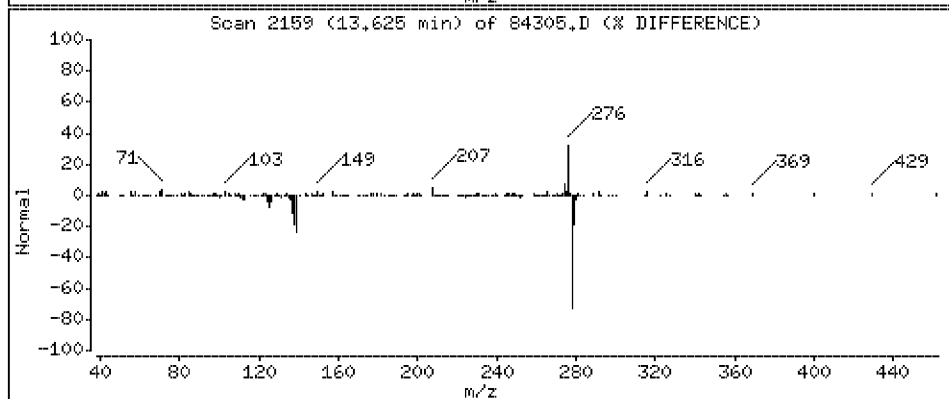
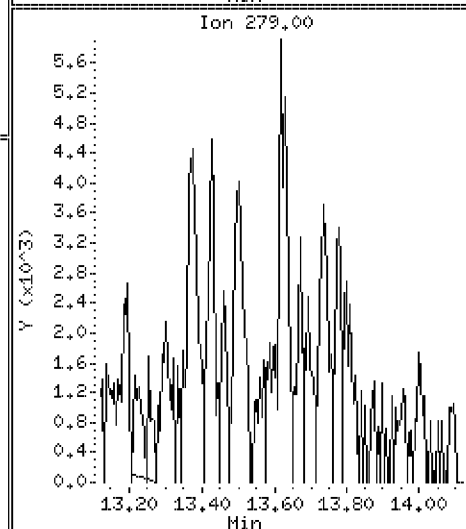
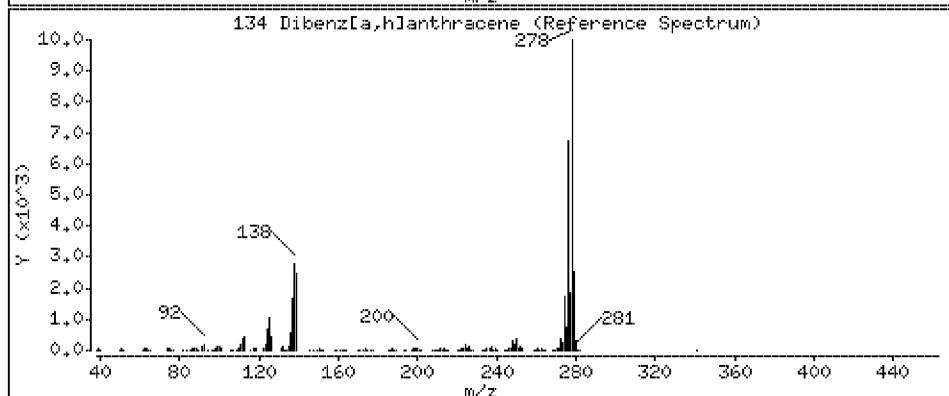
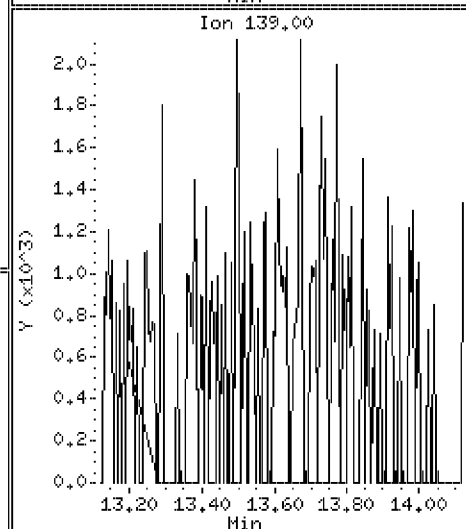
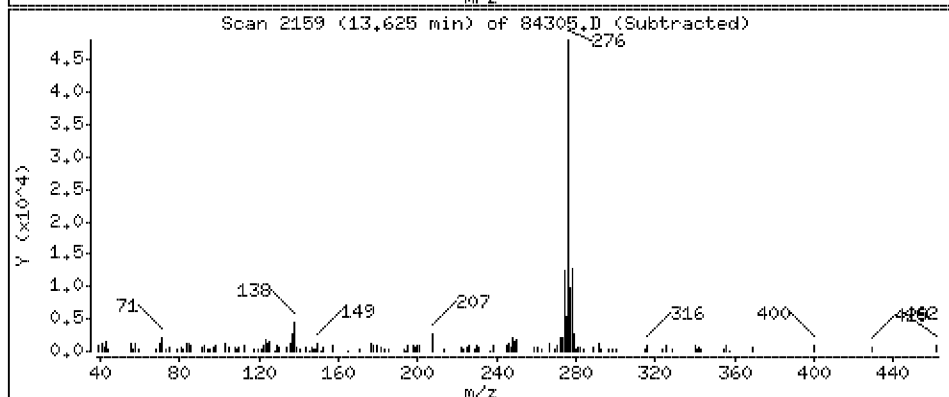
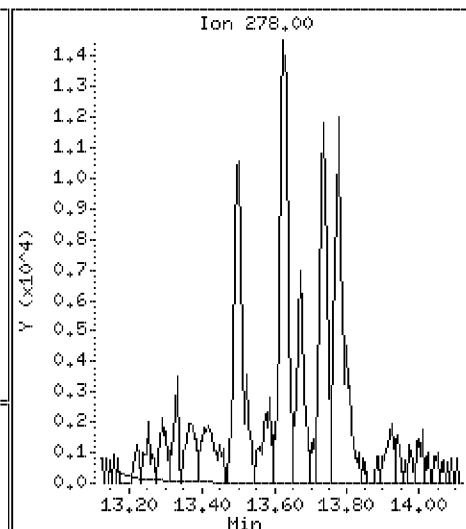
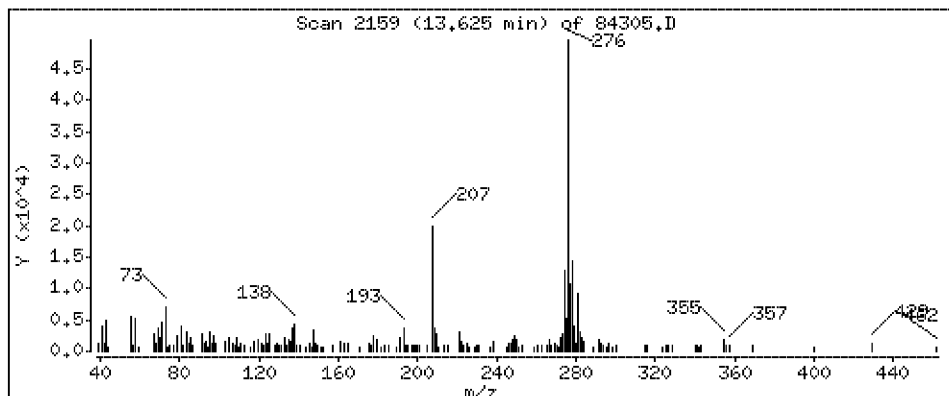
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

134 Dibenz[a,h]anthracene

Concentration: 22.9 ug/kg



Date : 04-MAY-2012 14:33

Client ID: EPAFMC-SD-09

Instrument: smsd03.i

Sample Info: SW350584305

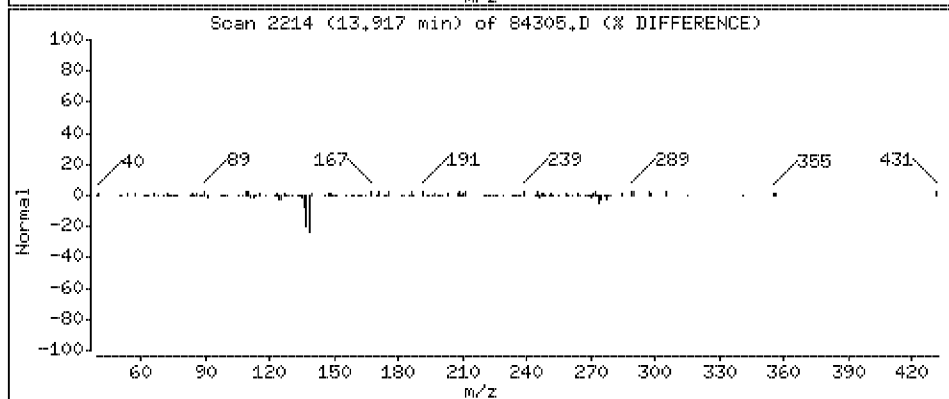
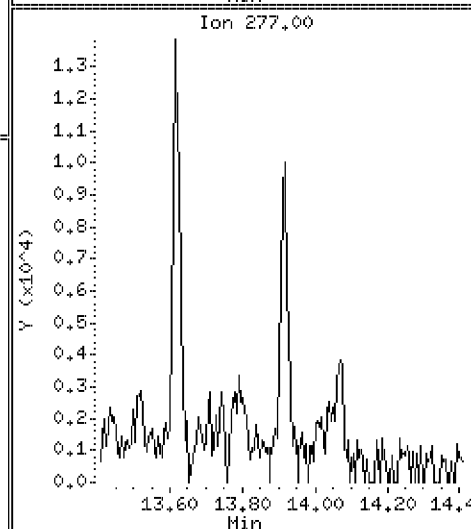
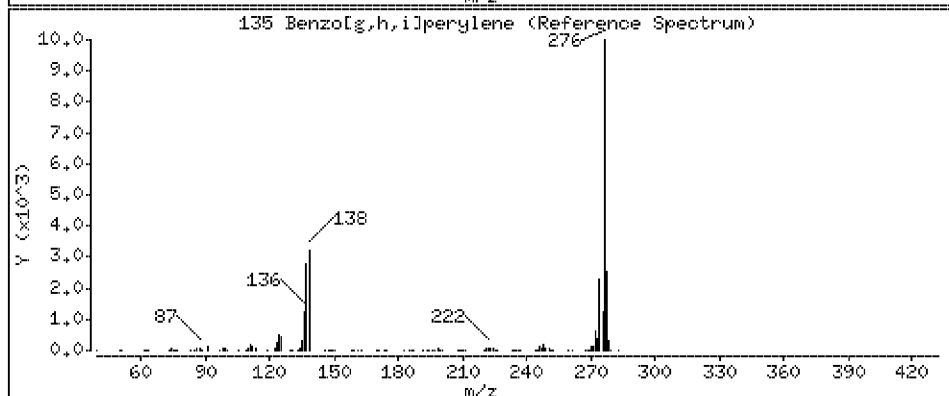
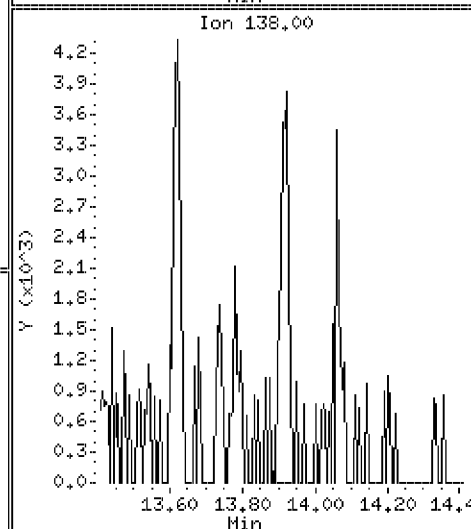
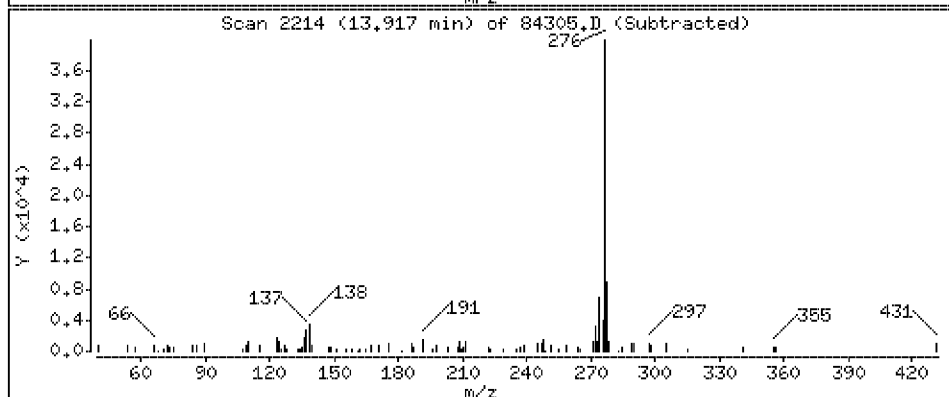
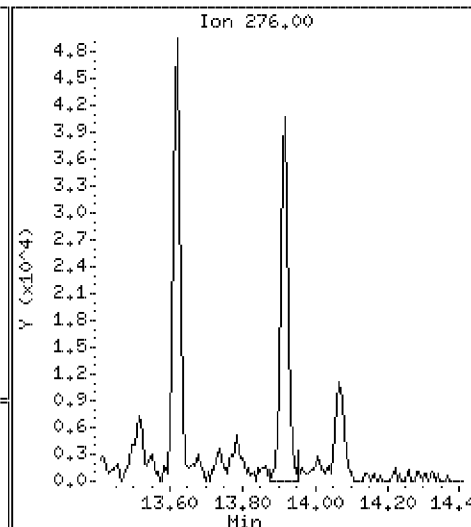
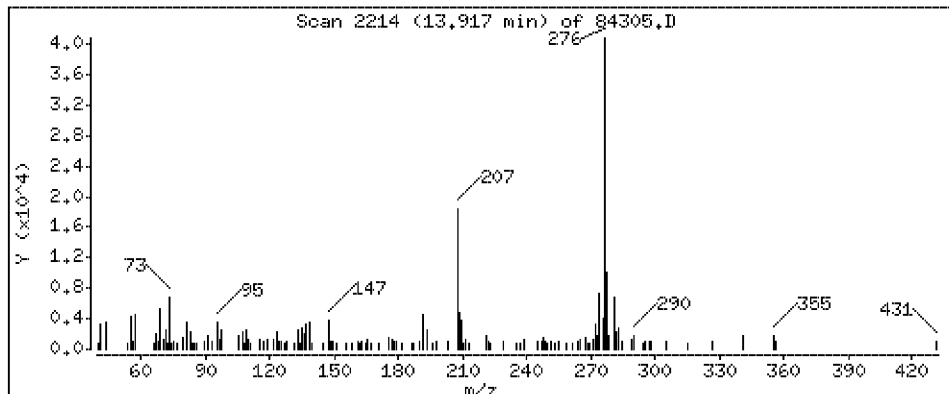
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

135 Benzo[g,h,i]perylene

Concentration: 65.7 ug/kg



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3050412.b\84306.D
 Lab Smp Id: 350584306 Client Smp ID: EPAFMC-SD-10
 Inj Date : 04-MAY-2012 14:57 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : SW350584306
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3050412.b\8270bcs.m
 Meth Date : 07-May-2012 17:35 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 18:17 Cal File: AP9CAL4.D
 Als bottle: 13
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.810	Weight of sample extracted (g)
M	20.300	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.354	4.352 (1.000)		152	280164	40.0000		80.00- 120.00	100.00	
4.354	4.352 (1.000)		115	177979			31.12- 91.12	63.53	
4.354	4.352 (1.000)		150	426666			117.02- 177.02	152.29	
* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.515	5.513 (1.000)		136	959674	40.0000		80.00- 120.00	100.00	
5.514	5.513 (1.000)		68	48468			0.00- 35.11	5.05	
* 70 Acenaphthene-d10 CAS #: 15067-26-2									
7.209	7.208 (1.000)		164	681558	40.0000		80.00- 120.00	100.00	
7.209	7.208 (1.000)		162	648080			66.36- 126.36	95.09	
7.209	7.208 (1.000)		160	299438			14.03- 74.03	43.93	
* 100 Phenanthrene-d10 CAS #: 1517-22-2									
8.664	8.665 (1.000)		188	1375306	40.0000		80.00- 120.00	100.00	
8.663	8.665 (1.000)		94	81555			0.00- 36.25	5.93	
8.663	8.665 (1.000)		80	100237			0.00- 37.67	7.29	
* 121 Chrysene-d12 CAS #: 1719-03-5									
11.261	11.259 (1.000)		240	1855977	40.0000		80.00- 120.00	100.00	

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET	RANGE	RATIO
====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 121 Chrysene-d12 (continued)									
11.259	11.259	(1.000)	120	93904			0.00-	34.90	5.06
11.260	11.259	(1.000)	236	498287			0.00-	56.56	26.85

* 130 Perylene-d12					CAS #: 1520-96-3				
12.593	12.576	(1.000)	264	1794004	40.0000		80.00-	120.00	100.00
12.593	12.576	(1.000)	260	443132			0.00-	54.67	24.70
12.592	12.576	(1.000)	265	431724			0.00-	53.09	24.06

Date : 04-MAY-2012 14:57

Client ID: EPAFMC-SD-10

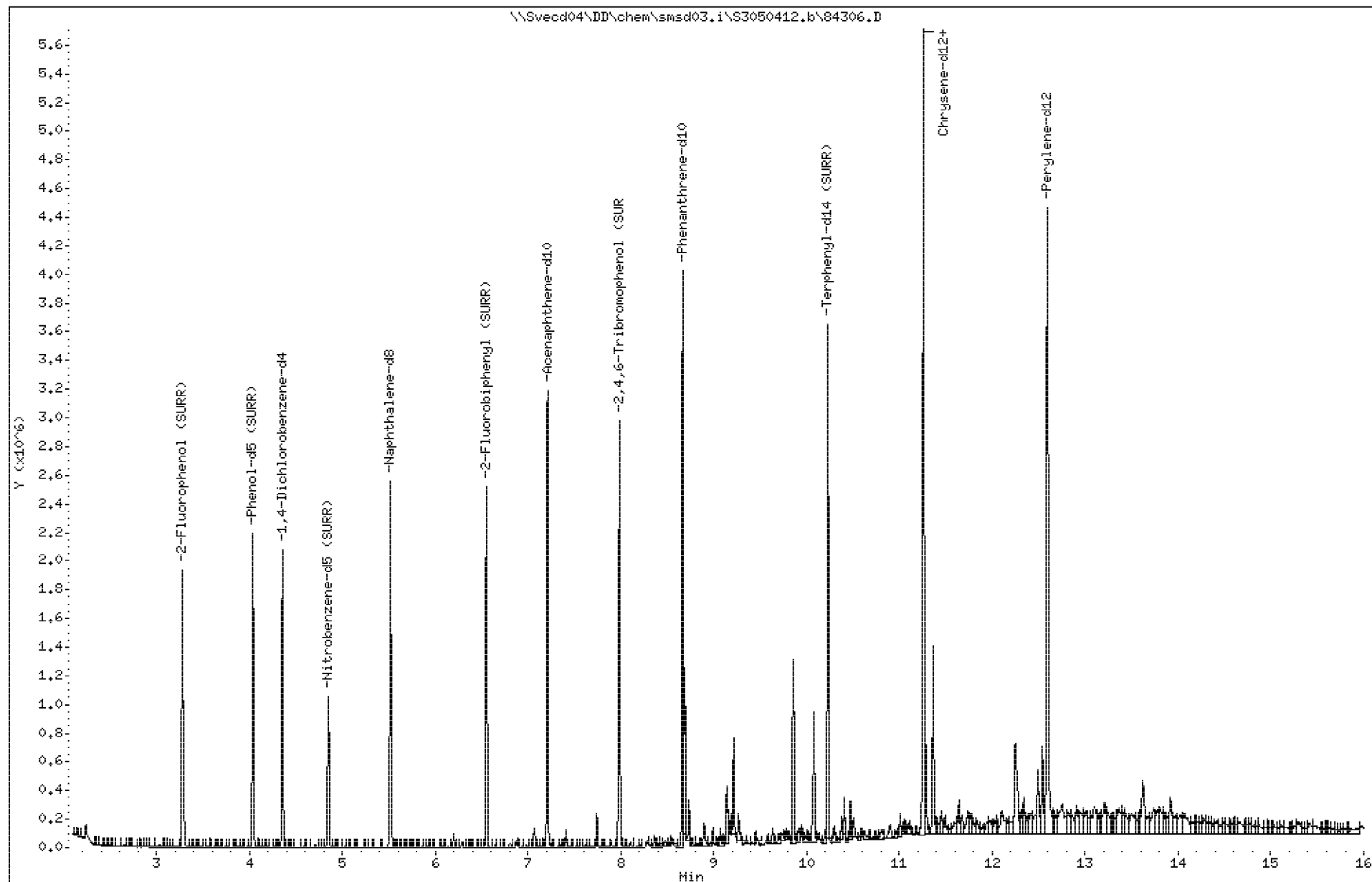
Sample Info: SN350584306

Instrument: smsd03.i

Operator: PEL

Column diameter: 0.25

Column phase: HPMS-5



Date : 04-MAY-2012 14:57

Client ID: EPAFMC-SD-10

Instrument: smsd03.i

Sample Info: SW350584306

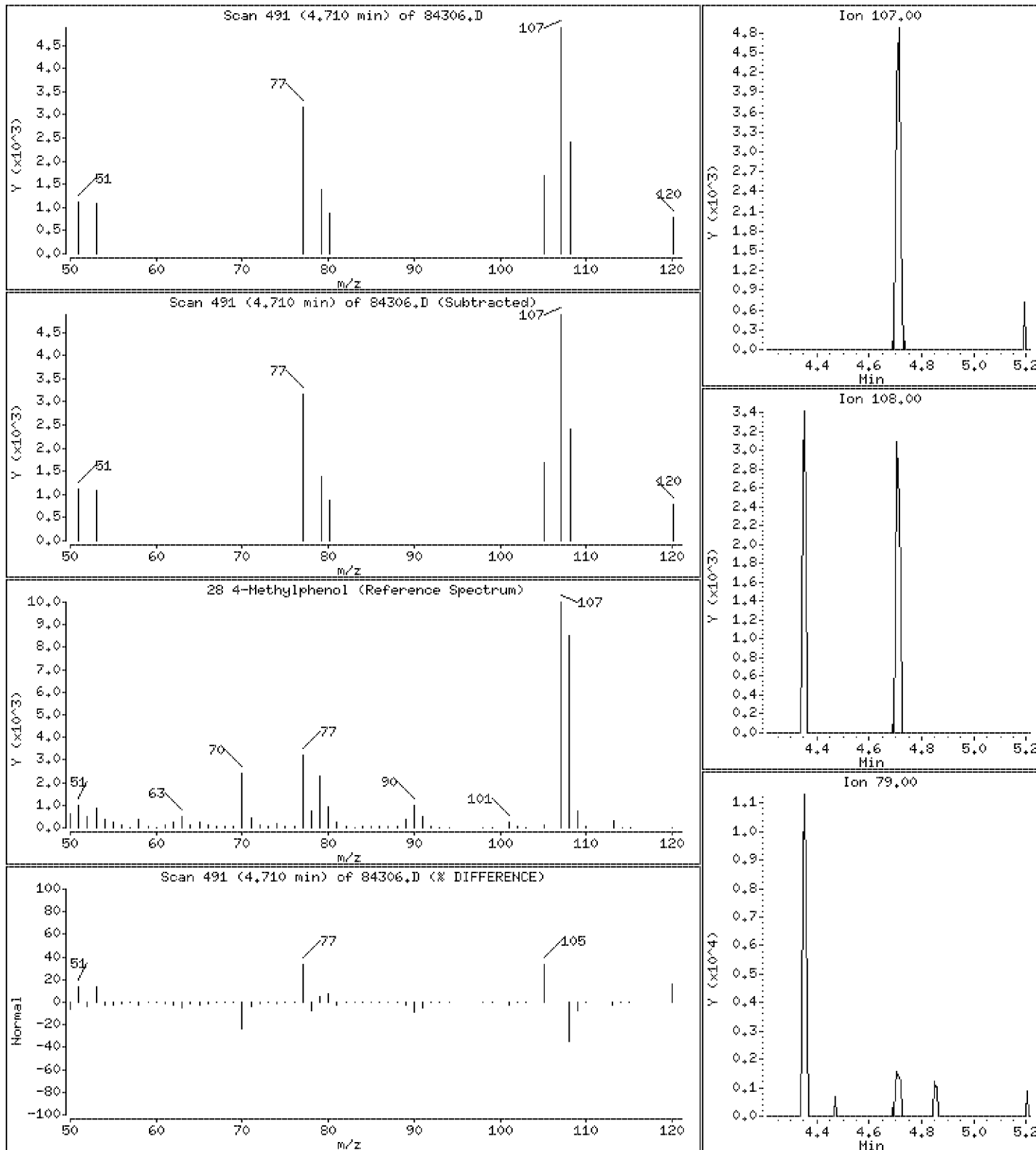
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

28 4-Methylphenol

Concentration: 20.2 ug/kg



Date : 04-MAY-2012 14:57

Client ID: EPAFMC-SD-10

Instrument: smsd03.i

Sample Info: SW350584306

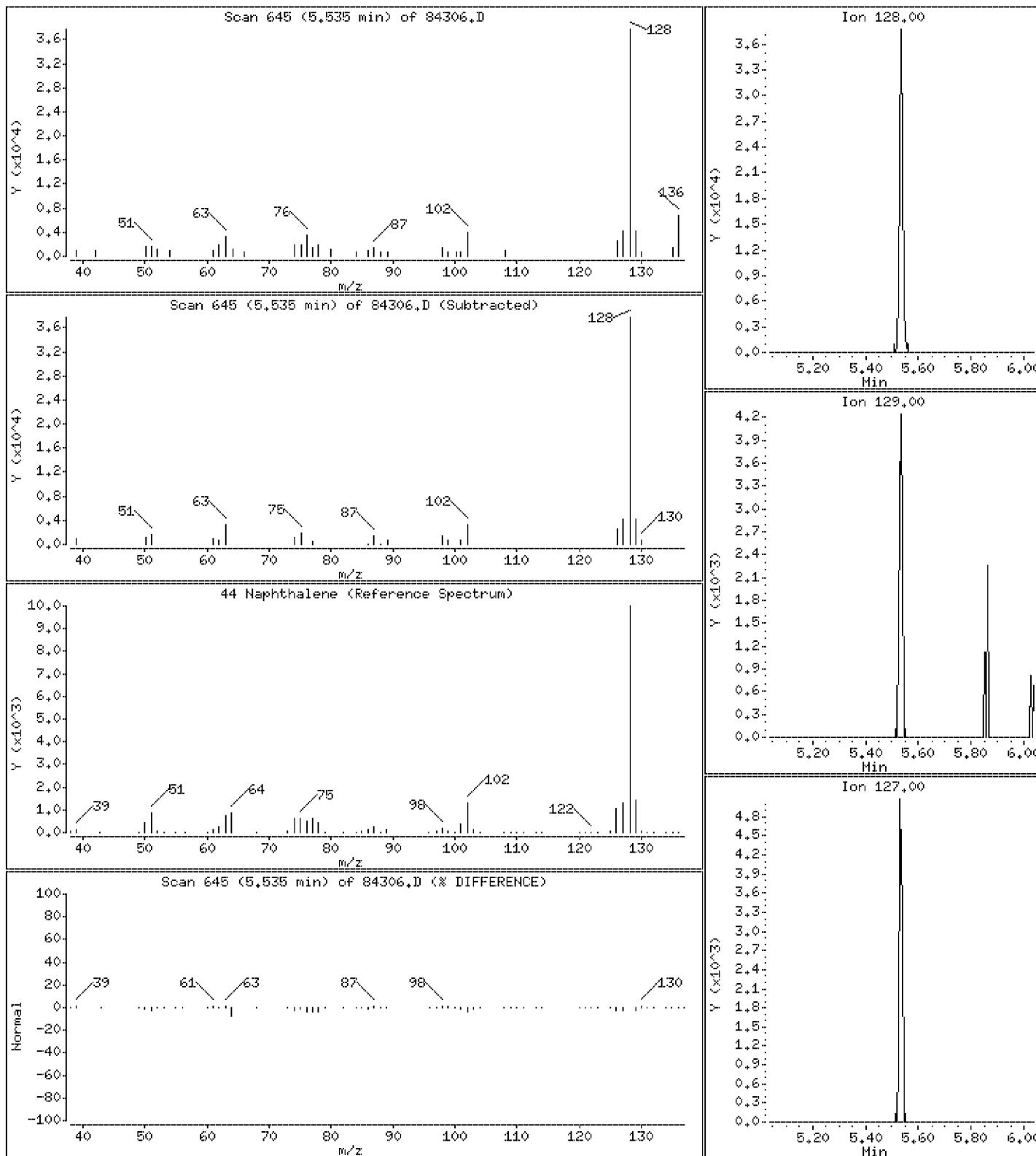
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

44 Naphthalene

Concentration: 62.9 ug/kg



Date : 04-MAY-2012 14:57

Client ID: EPAFMC-SD-10

Instrument: smsd03.i

Sample Info: SW350584306

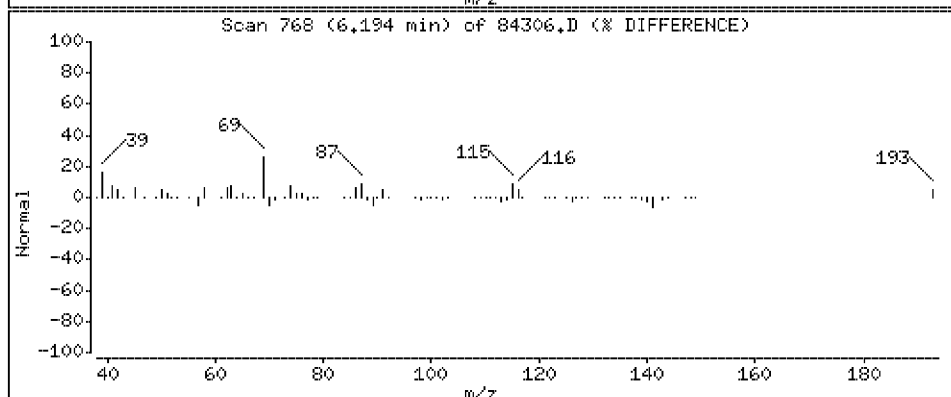
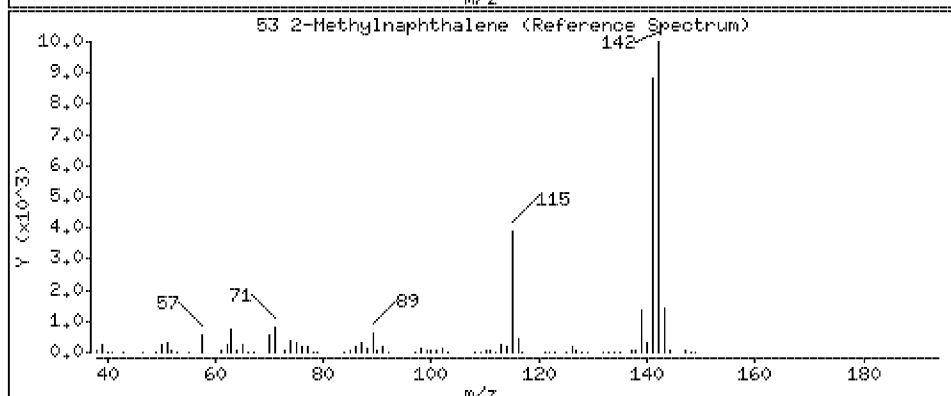
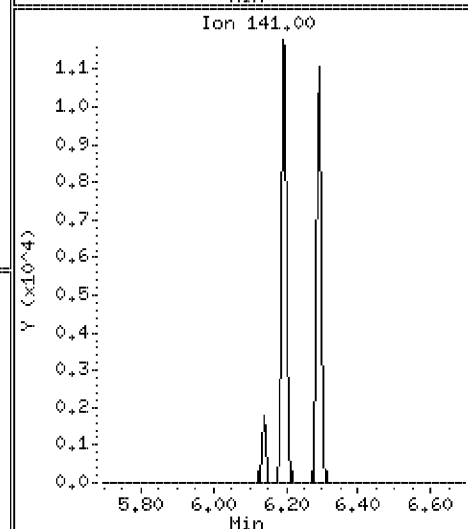
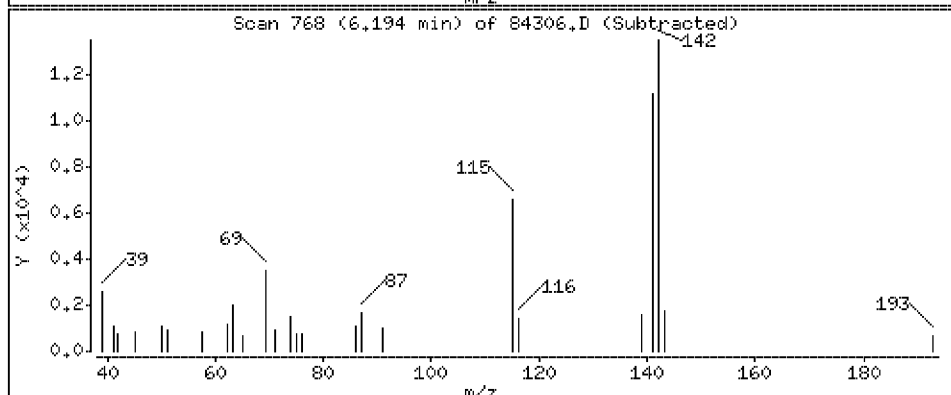
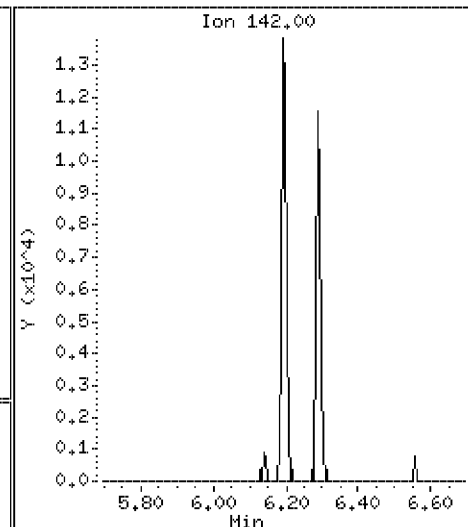
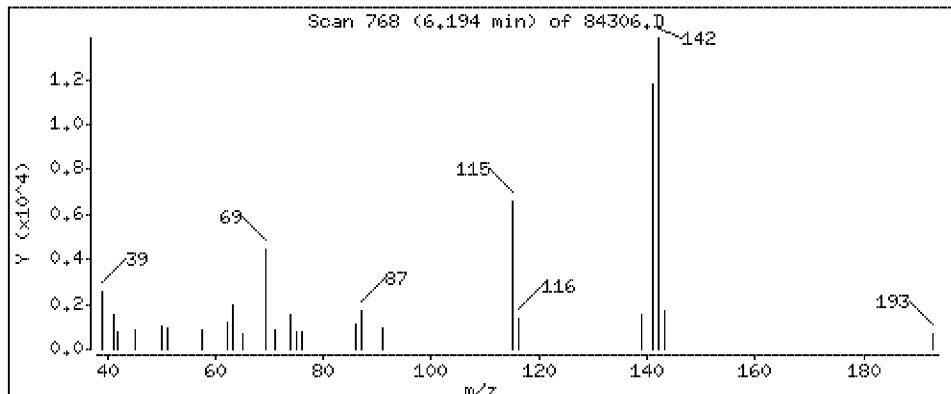
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

53 2-Methylnaphthalene

Concentration: 33.2 ug/kg



Date : 04-MAY-2012 14:57

Client ID: EPAFMC-SD-10

Instrument: smsd03.i

Sample Info: SW350584306

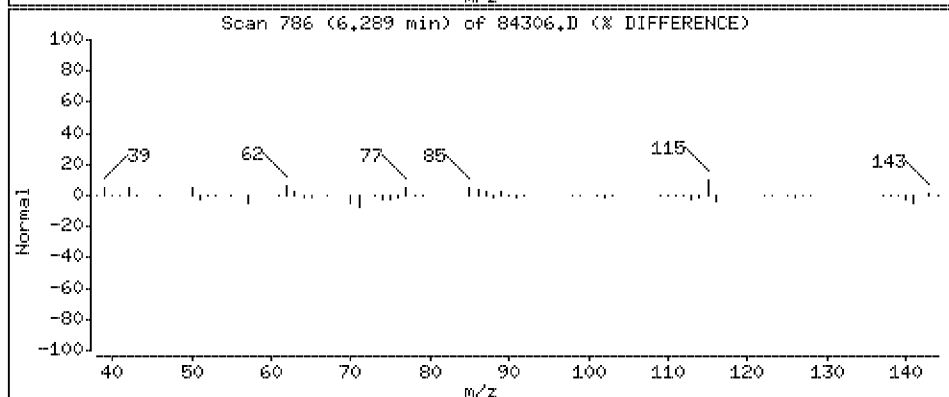
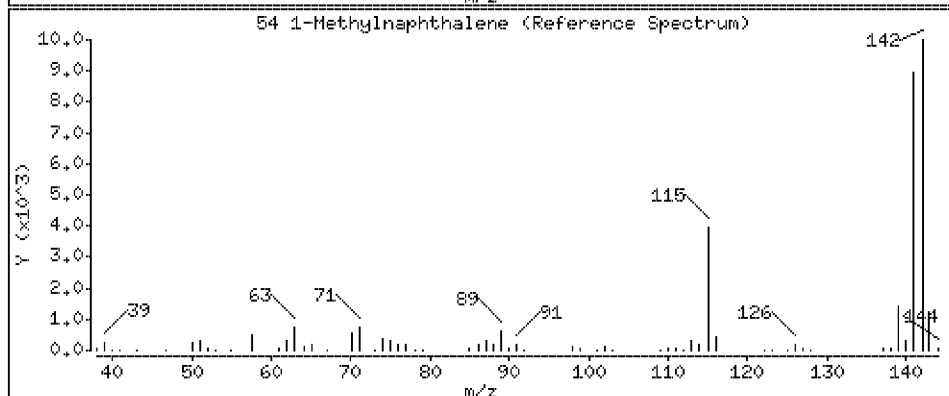
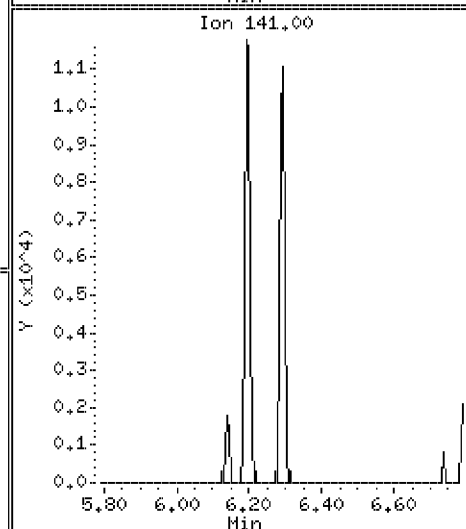
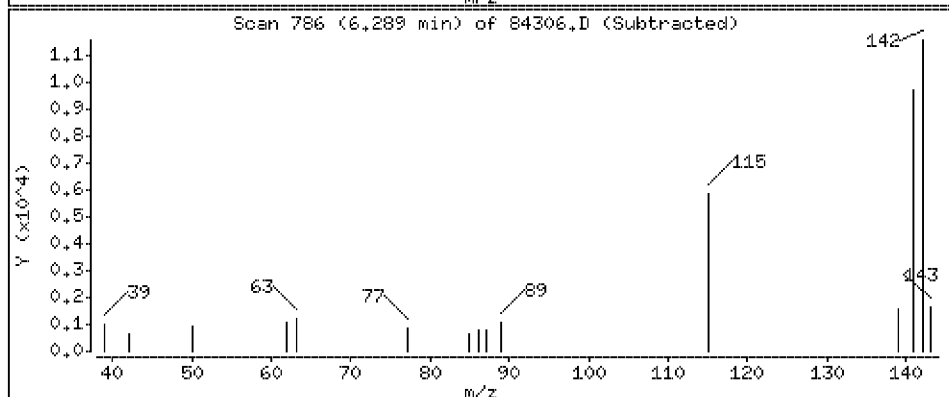
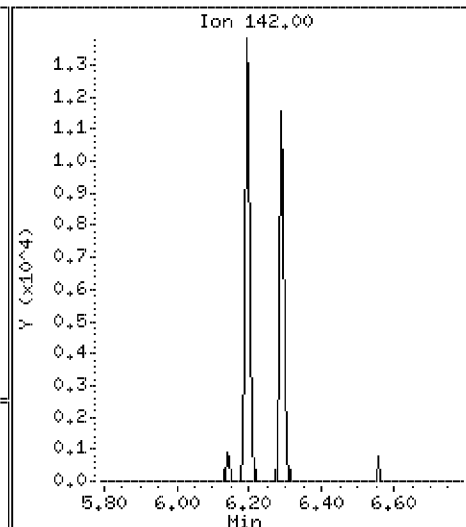
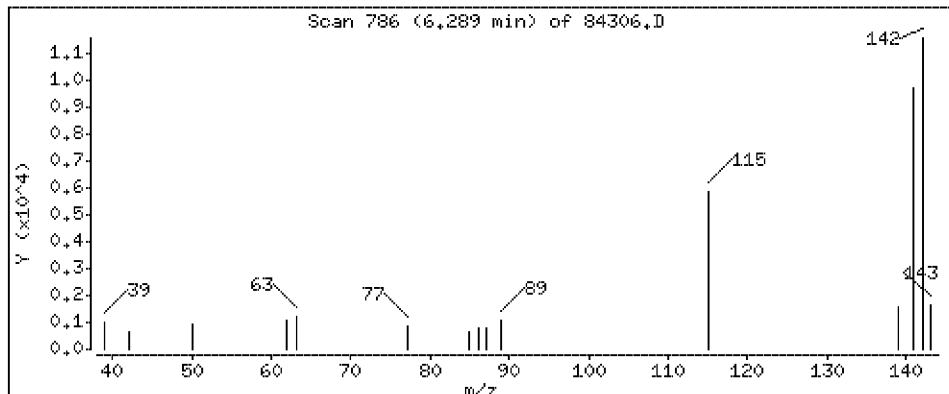
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

54 1-Methylnaphthalene

Concentration: 29.1 ug/kg



Date : 04-MAY-2012 14:57

Client ID: EPAFMC-SD-10

Instrument: smsd03.i

Sample Info: SW350584306

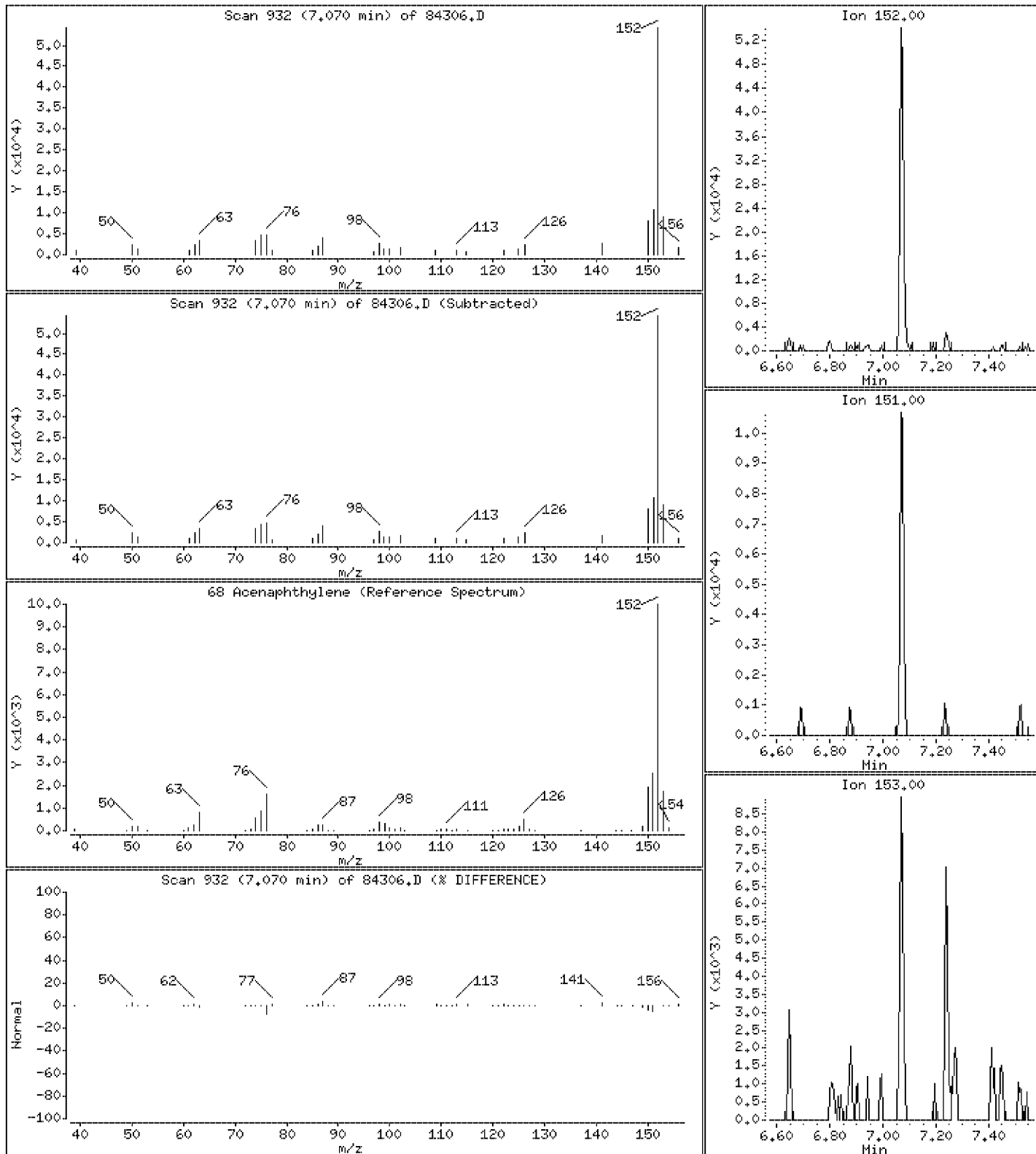
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

68 Acenaphthylene

Concentration: 84.4 ug/kg



Date : 04-MAY-2012 14:57

Client ID: EPAFMC-SD-10

Instrument: smsd03.i

Sample Info: SW350584306

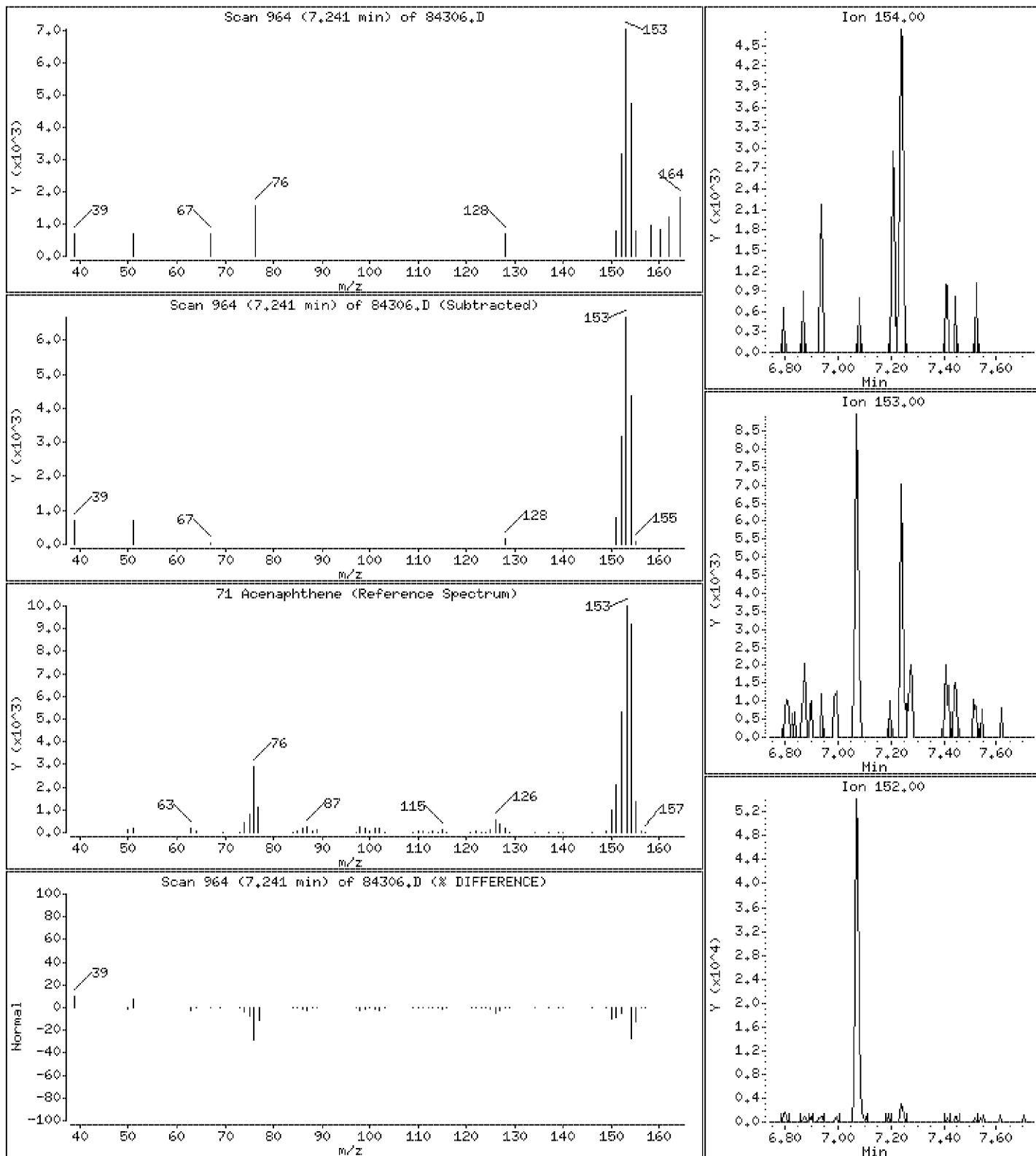
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

71 Acenaphthene

Concentration: 12.6 ug/kg



Date : 04-MAY-2012 14:57

Client ID: EPAFMC-SD-10

Instrument: smsd03.i

Sample Info: SW350584306

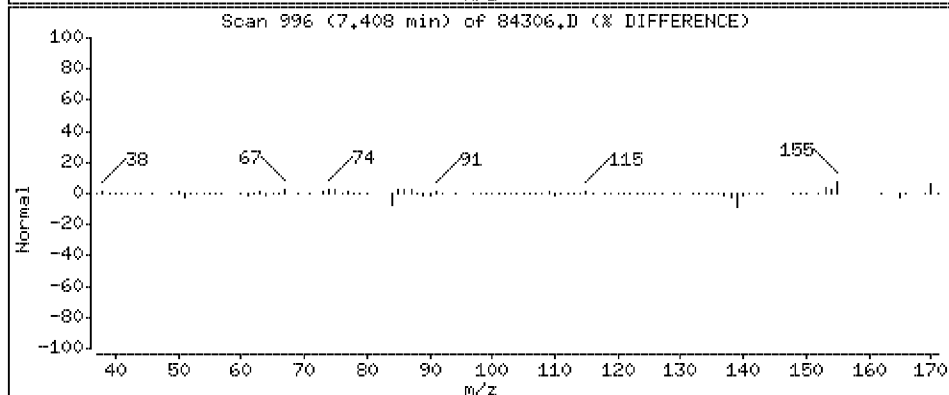
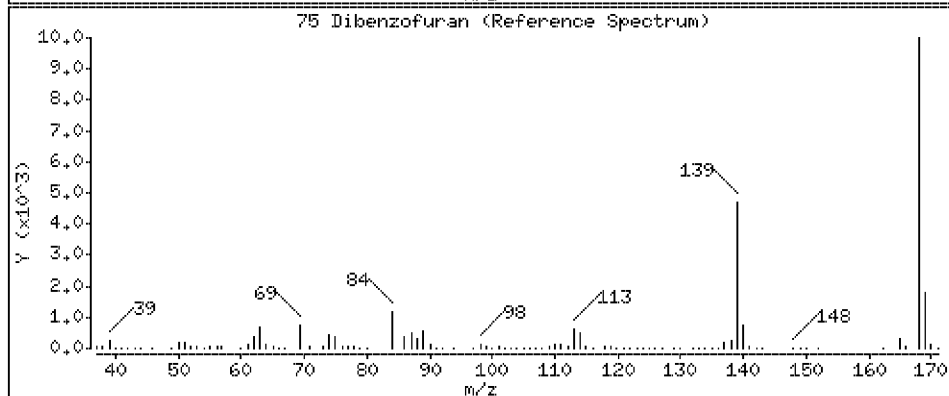
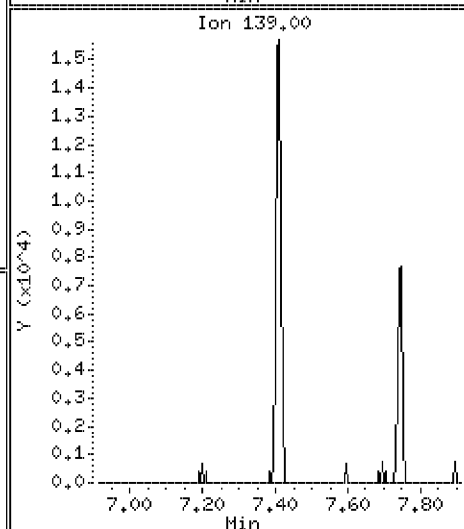
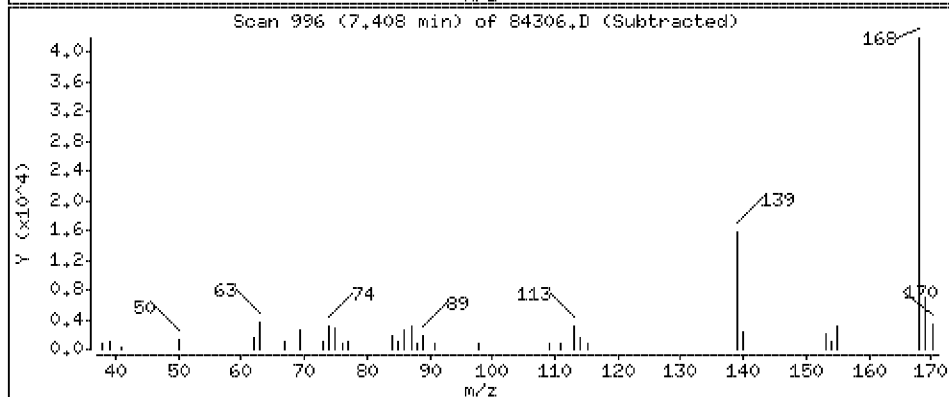
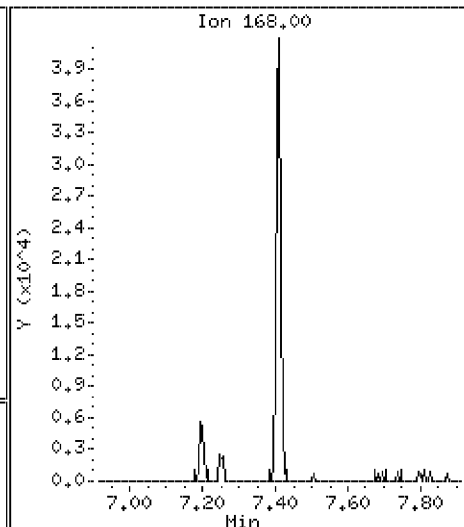
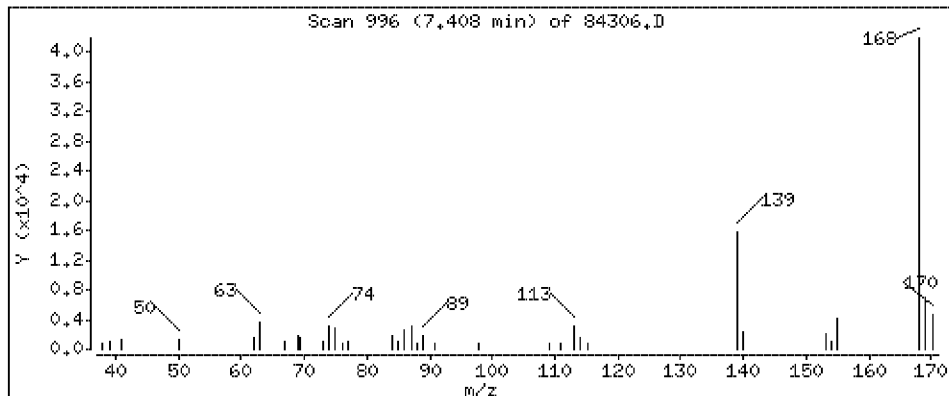
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

75 Dibenzofuran

Concentration: 61.7 ug/kg



Date : 04-MAY-2012 14:57

Client ID: EPAFMC-SD-10

Instrument: smsd03.i

Sample Info: SW350584306

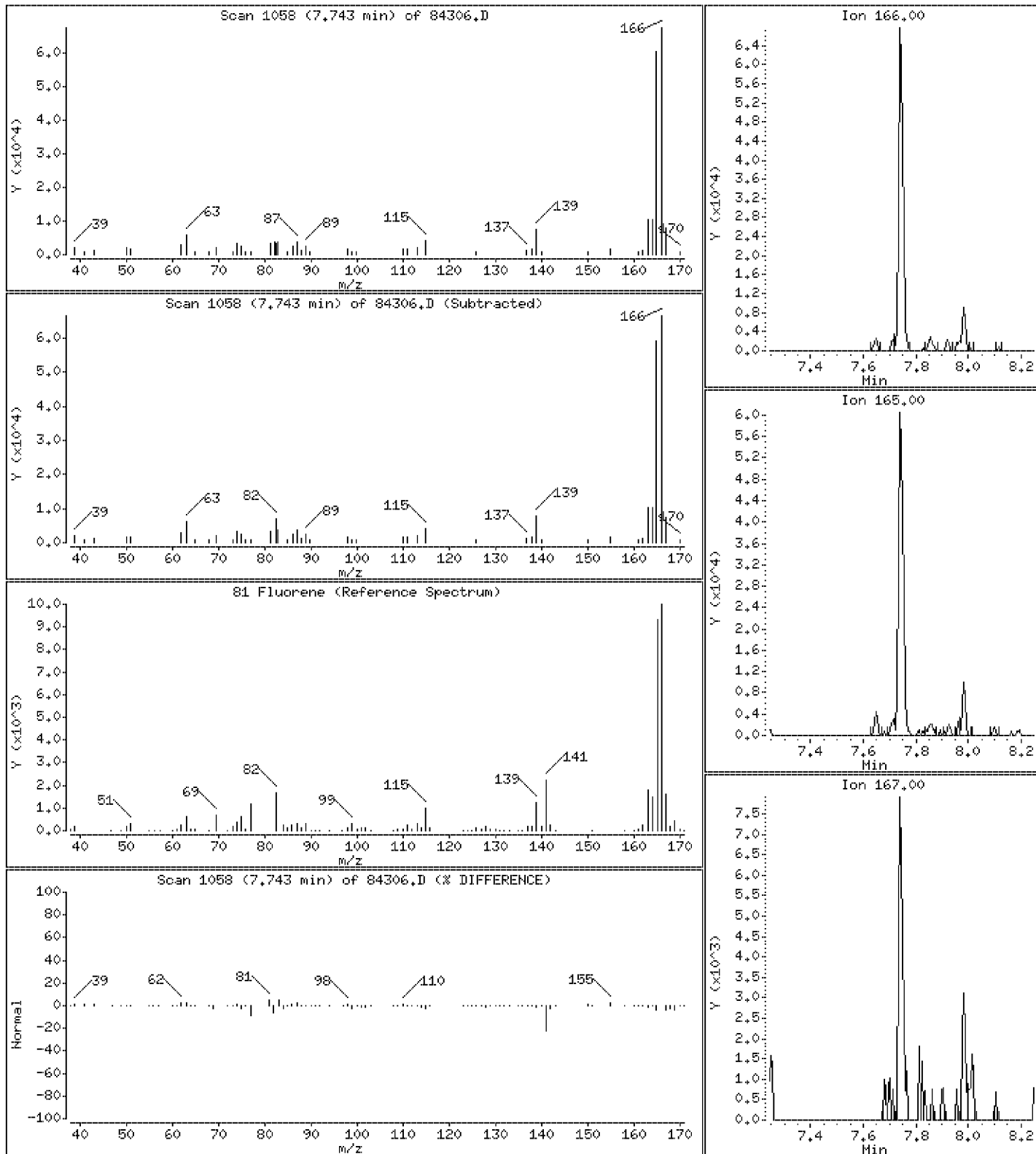
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

81 Fluorene

Concentration: 122 ug/kg



Date : 04-MAY-2012 14:57

Client ID: EPAFMC-SD-10

Instrument: smsd03.i

Sample Info: SW350584306

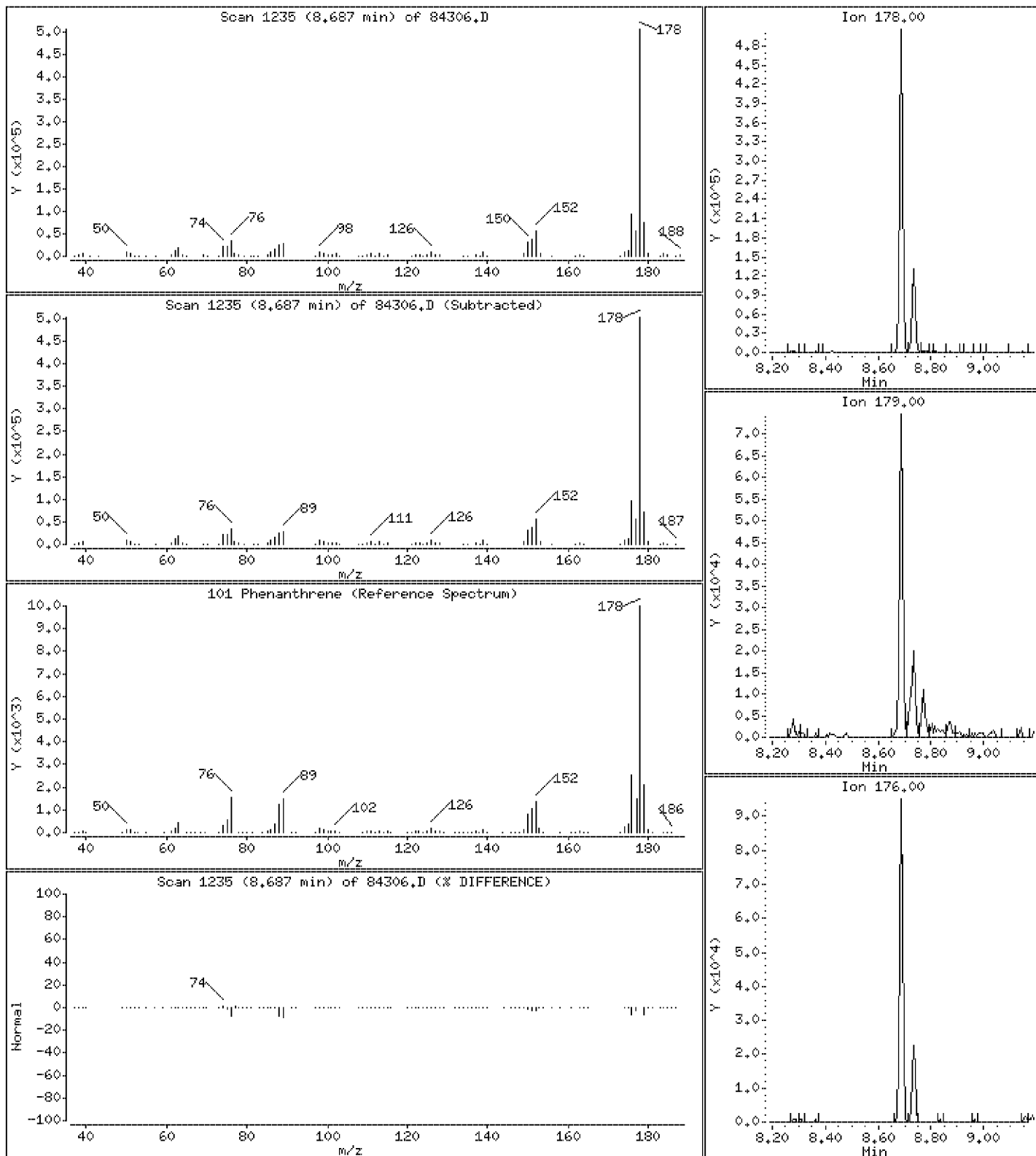
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

101 Phenanthrene

Concentration: 574 ug/kg



Date : 04-MAY-2012 14:57

Client ID: EPAFMC-SD-10

Instrument: smsd03.i

Sample Info: SW350584306

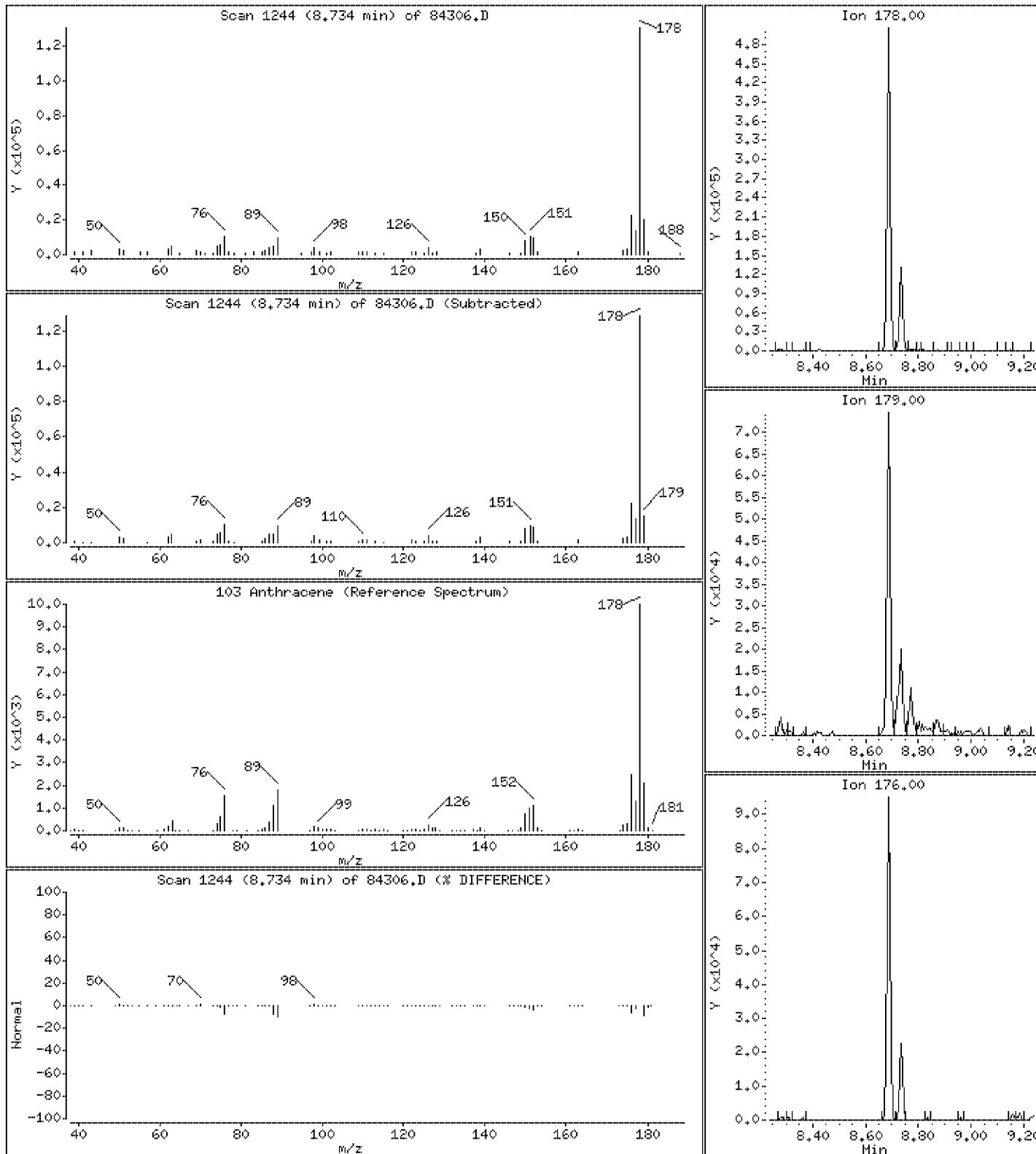
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

103 Anthracene

Concentration: 154 ug/kg



Date : 04-MAY-2012 14:57

Client ID: EPAFMC-SD-10

Instrument: smsd03.i

Sample Info: SW350584306

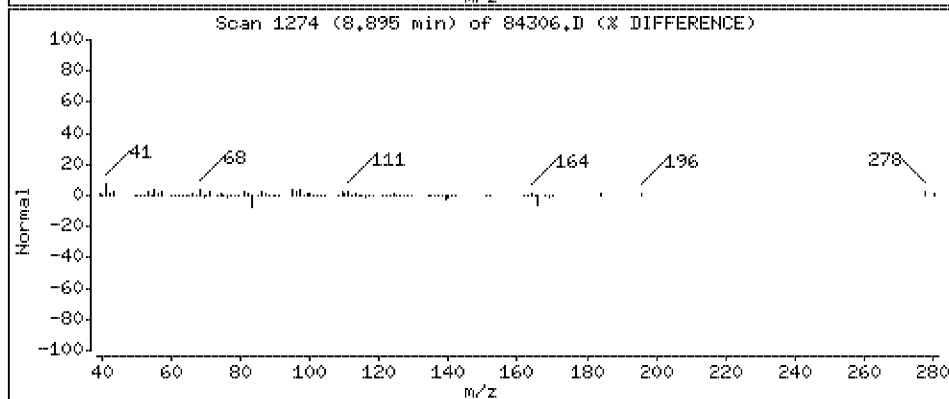
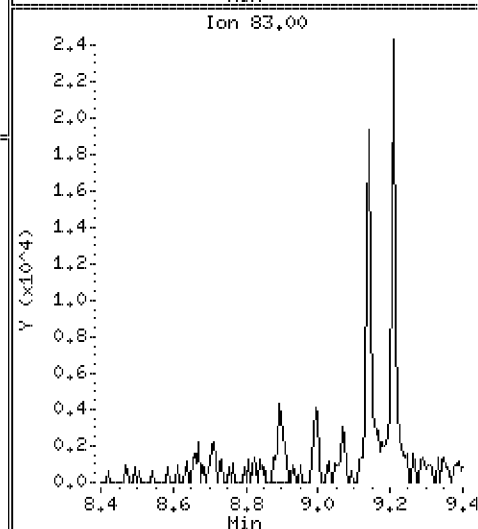
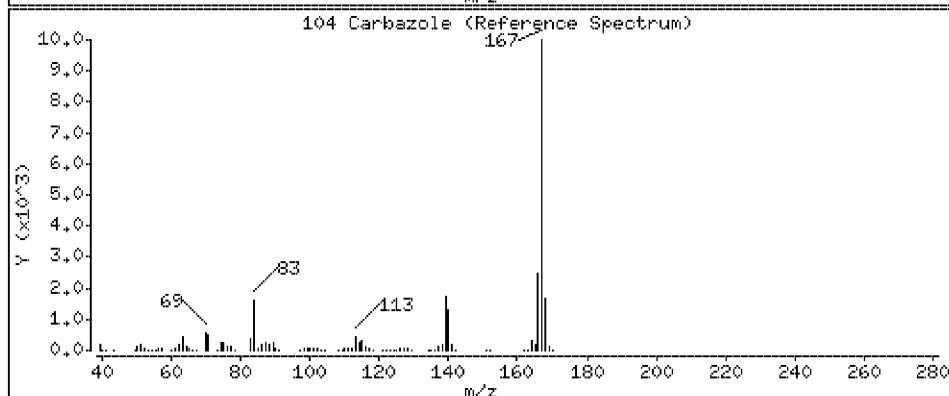
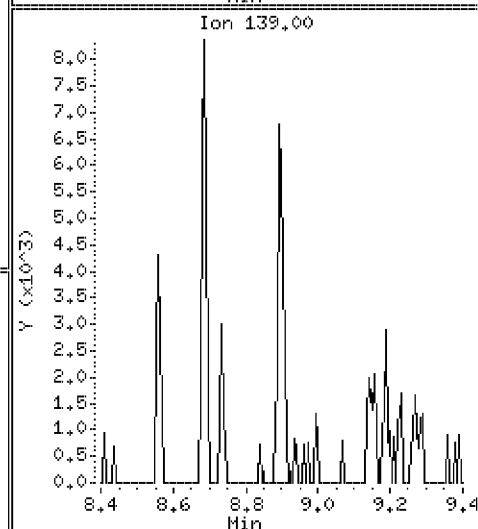
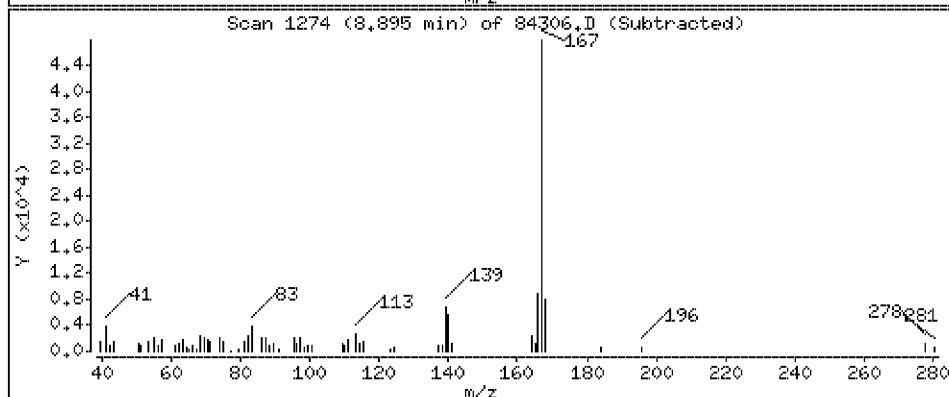
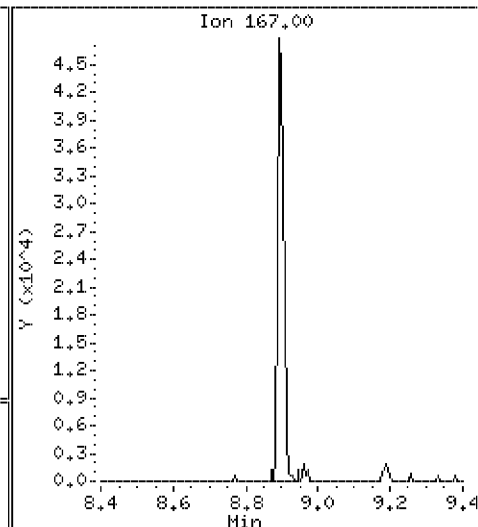
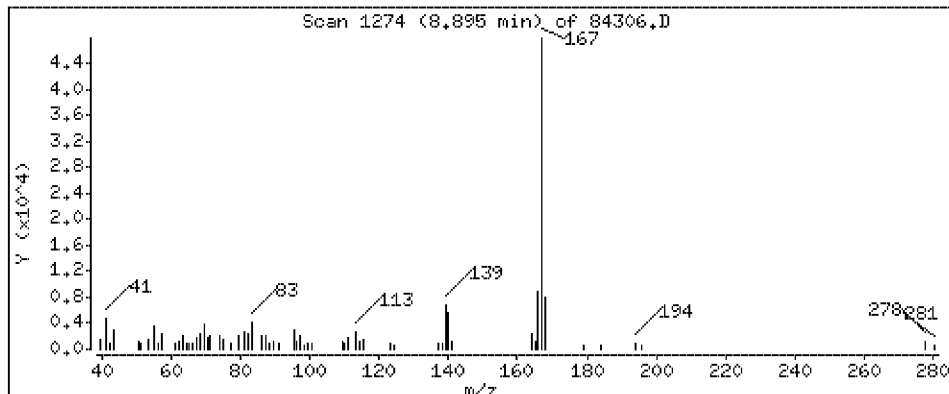
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

104 Carbazole

Concentration: 76.6 ug/kg



Date : 04-MAY-2012 14:57

Client ID: EPAFMC-SD-10

Instrument: smsd03.i

Sample Info: SW350584306

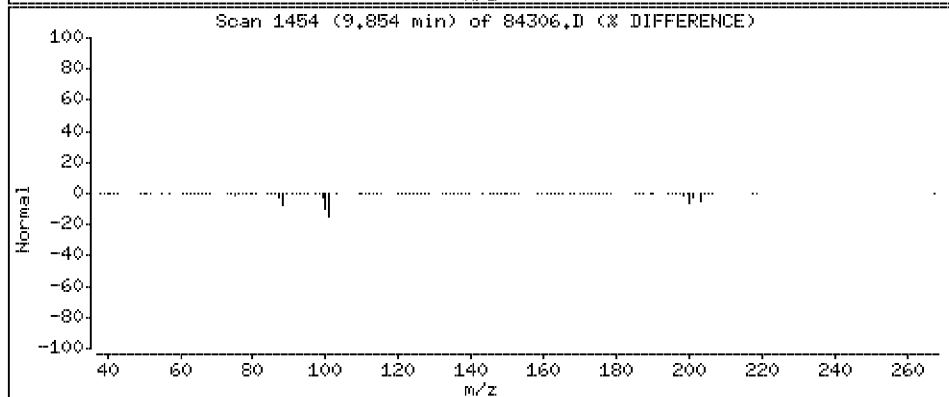
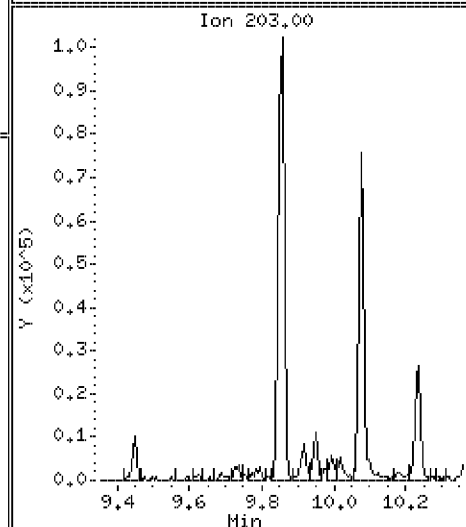
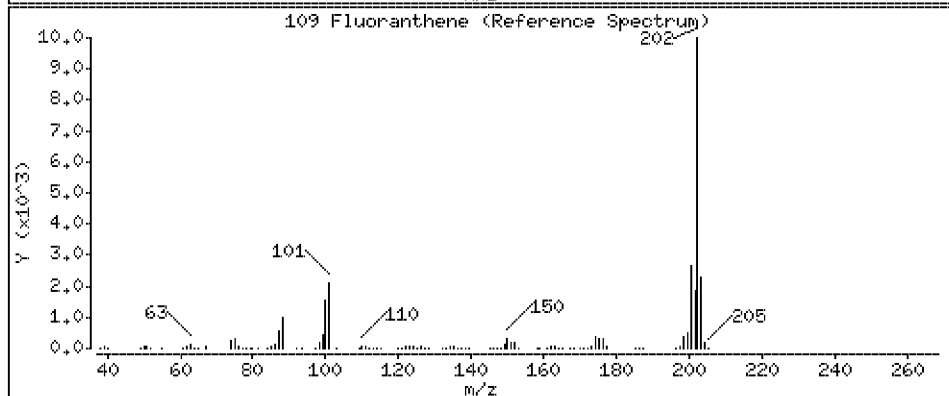
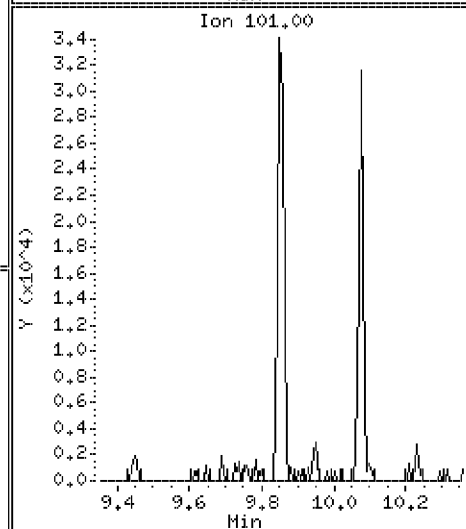
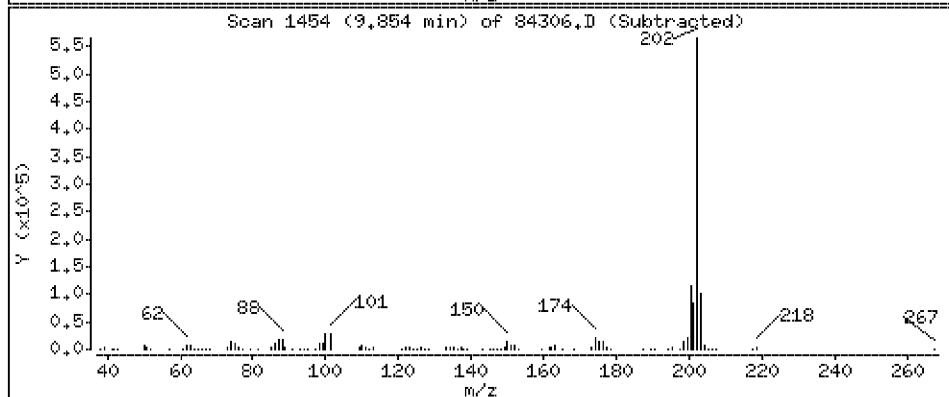
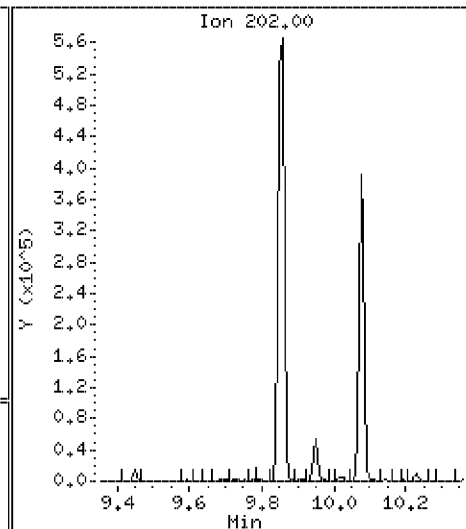
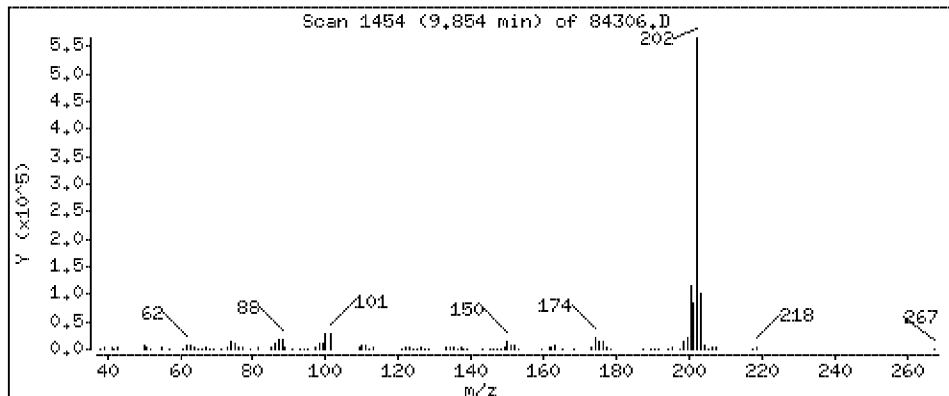
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

109 Fluoranthene

Concentration: 630 ug/kg



Date : 04-MAY-2012 14:57

Client ID: EPAFMC-SD-10

Instrument: smsd03.i

Sample Info: SW350584306

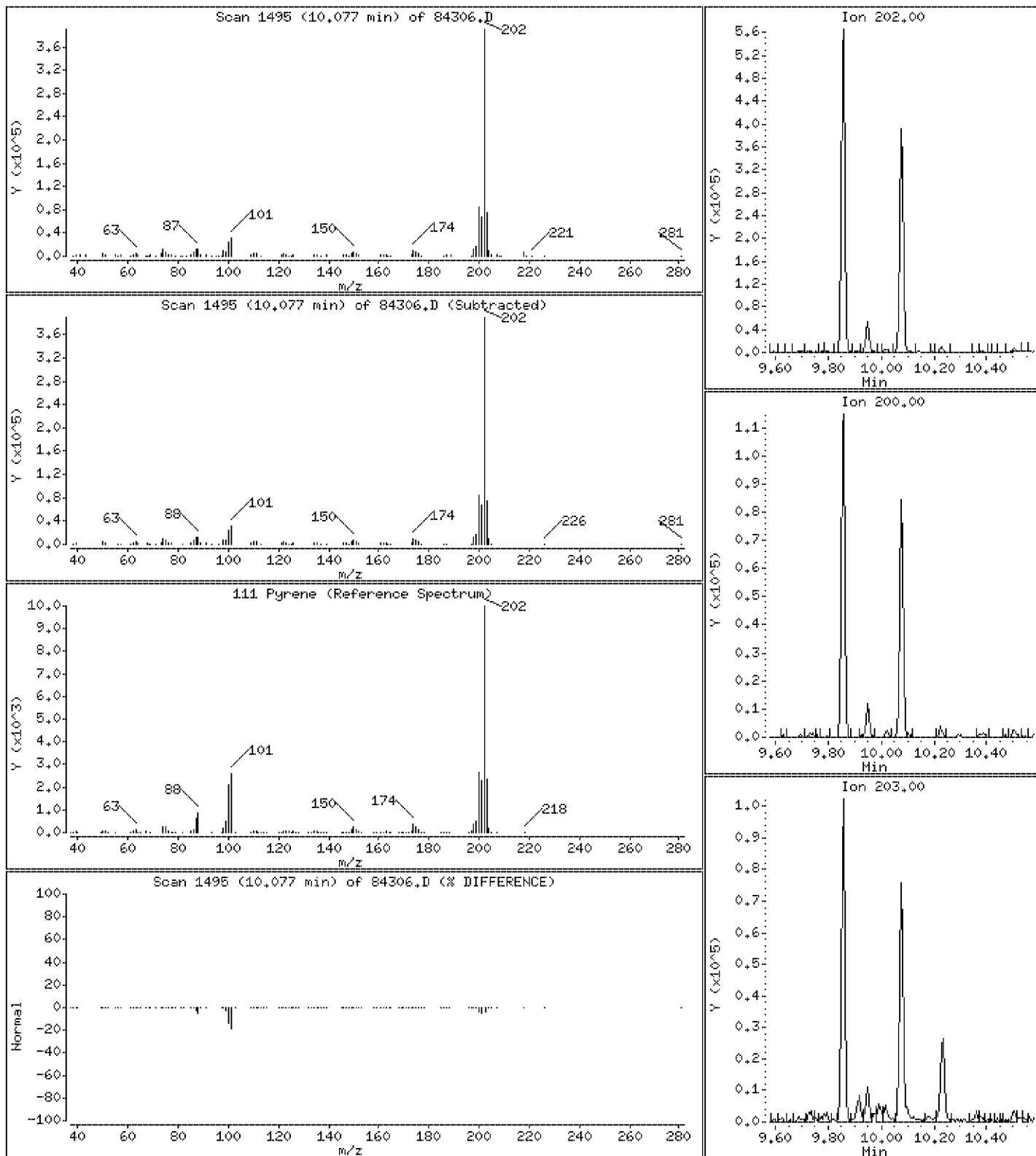
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

111 Pyrene

Concentration: 495 ug/kg



Date : 04-MAY-2012 14:57

Client ID: EPAFMC-SD-10

Instrument: smsd03.i

Sample Info: SW350584306

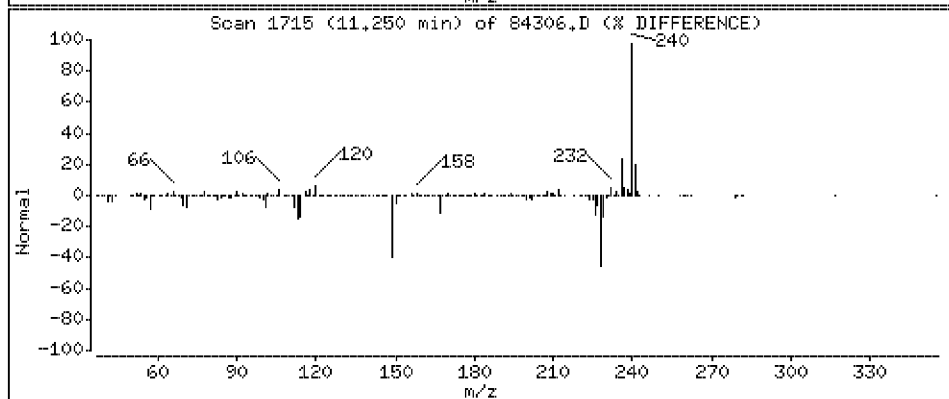
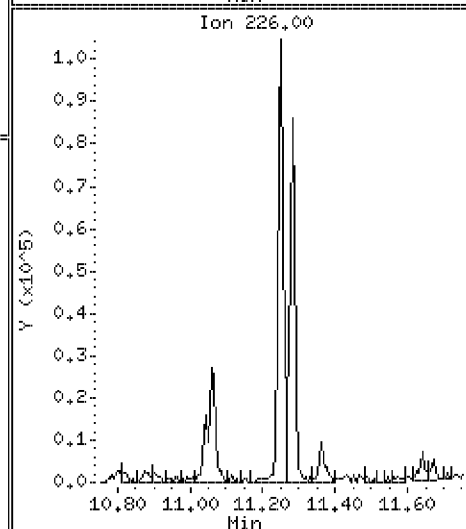
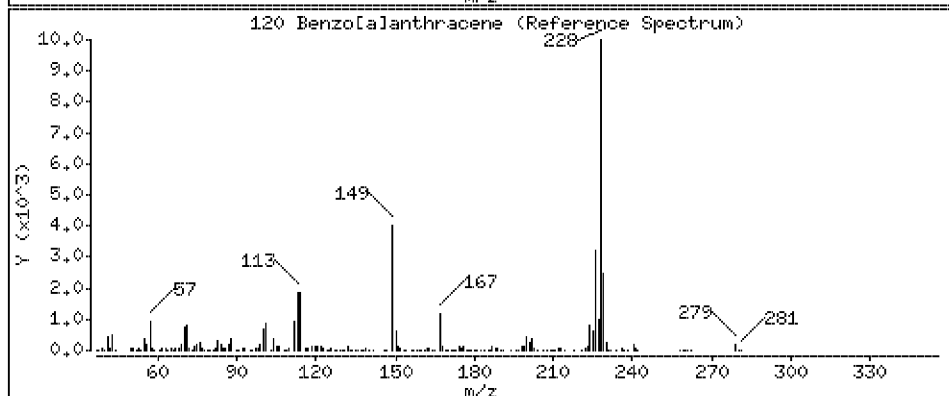
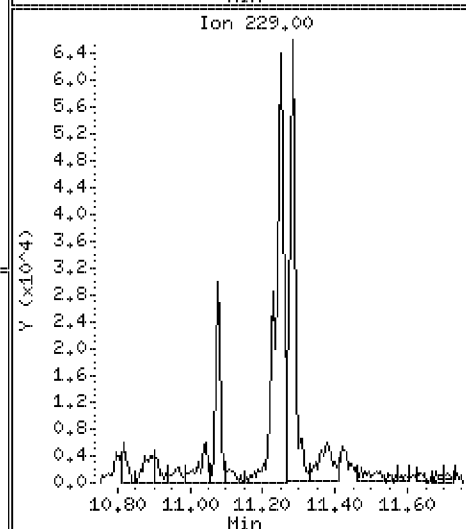
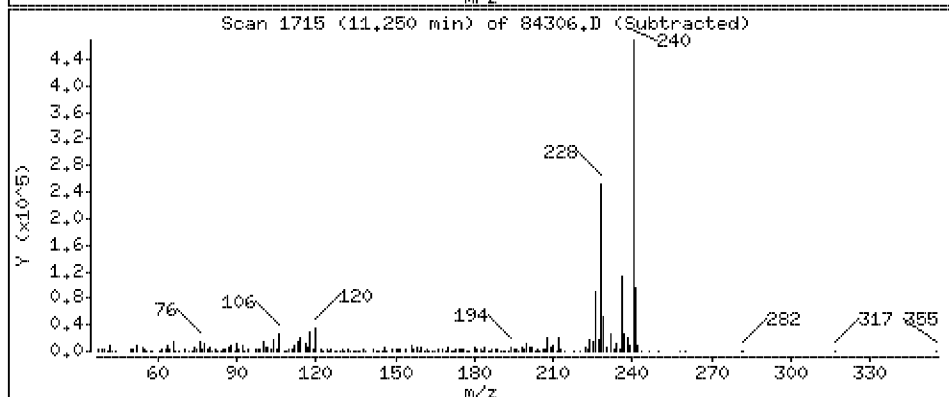
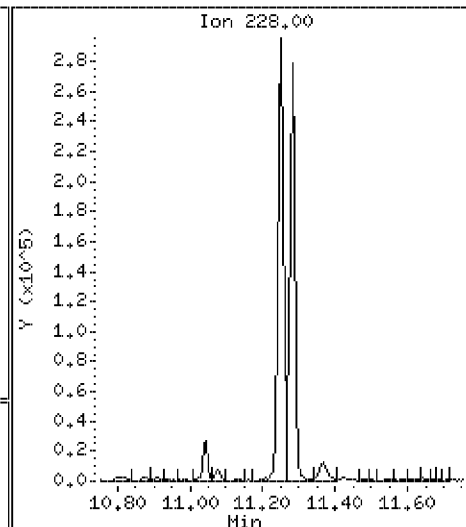
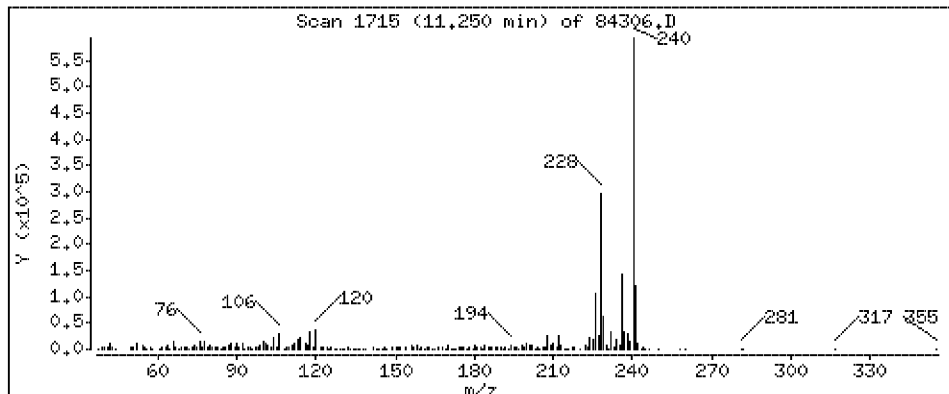
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

120 Benzo[*a*]anthracene

Concentration: 338 ug/kg



Date : 04-MAY-2012 14:57

Client ID: EPAFMC-SD-10

Instrument: smsd03.i

Sample Info: SW350584306

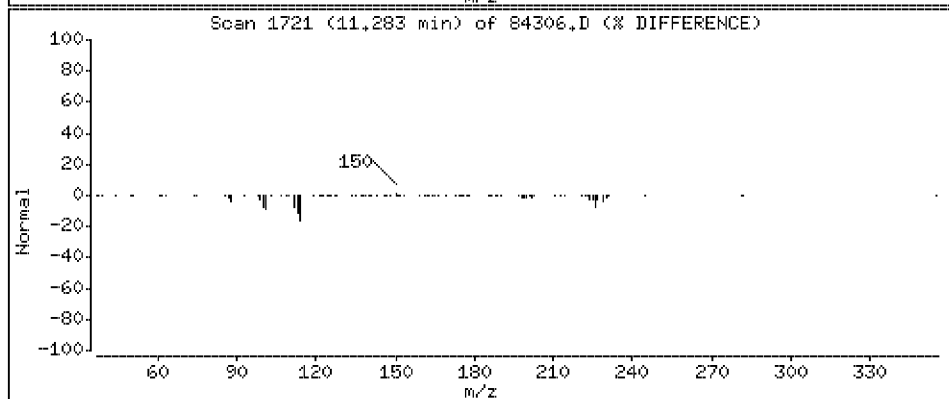
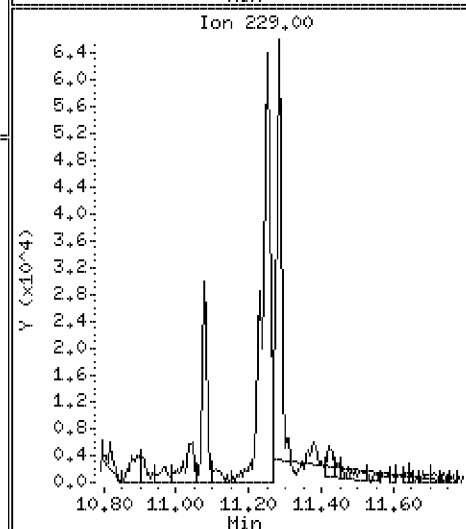
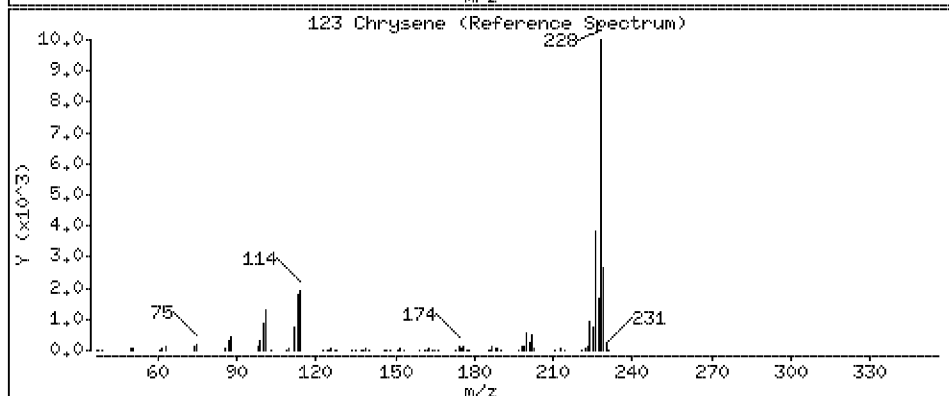
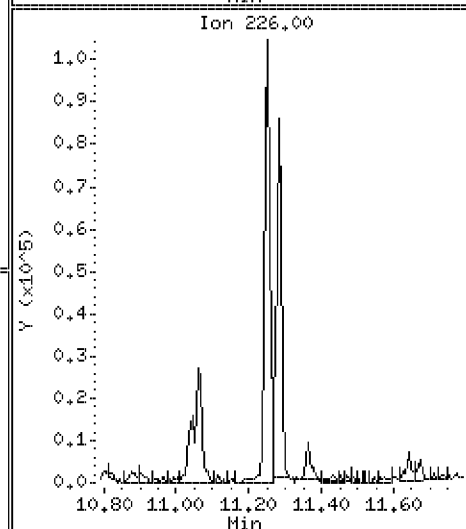
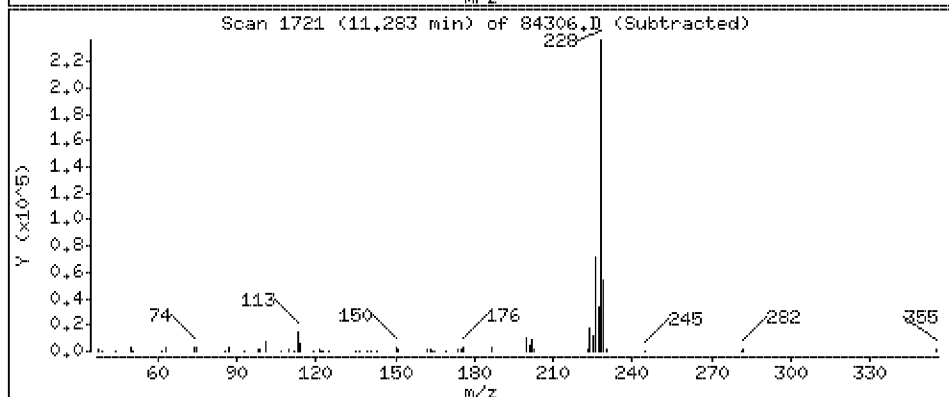
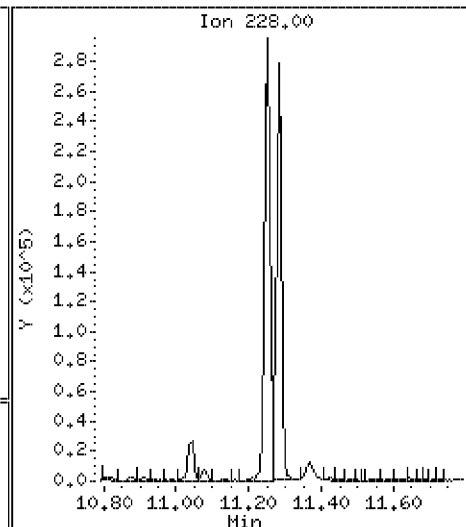
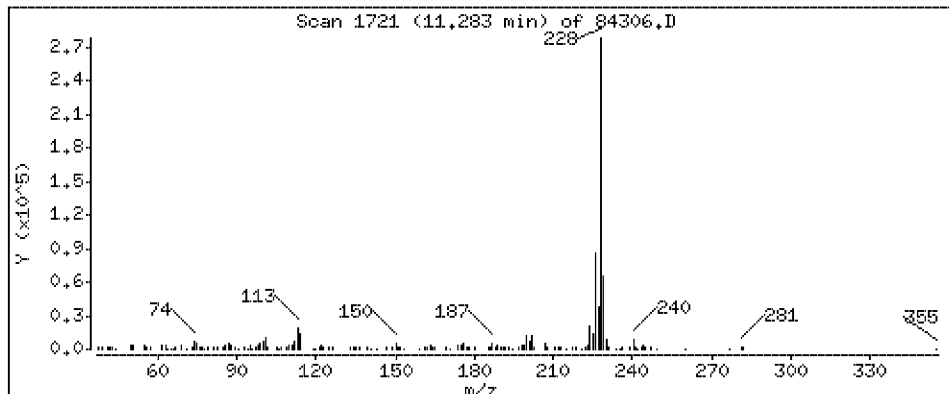
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

123 Chrysene

Concentration: 326 ug/kg



Date : 04-MAY-2012 14:57

Client ID: EPAFMC-SD-10

Instrument: smsd03.i

Sample Info: SW350584306

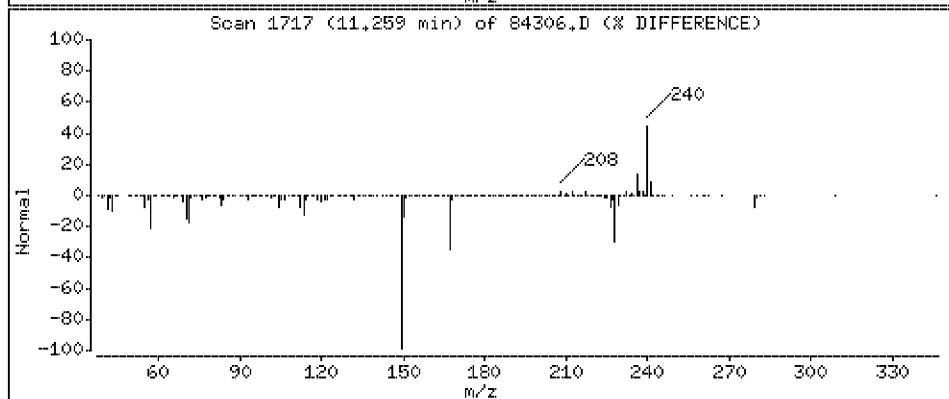
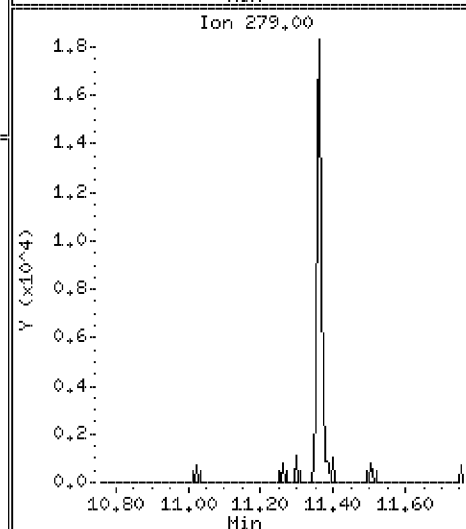
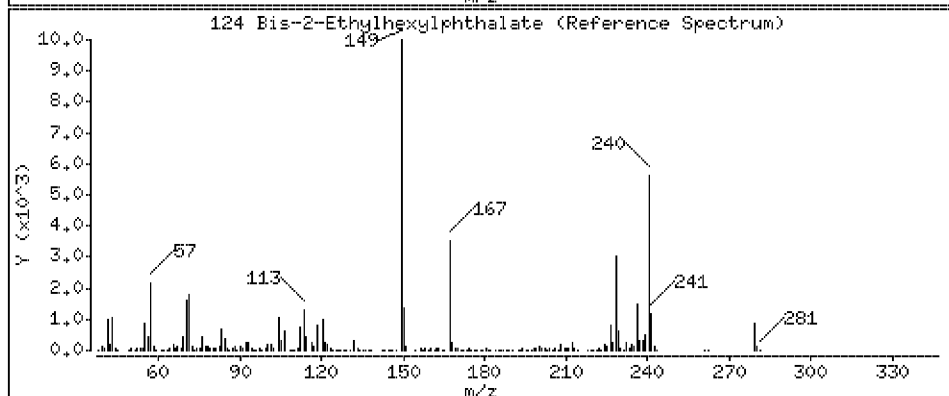
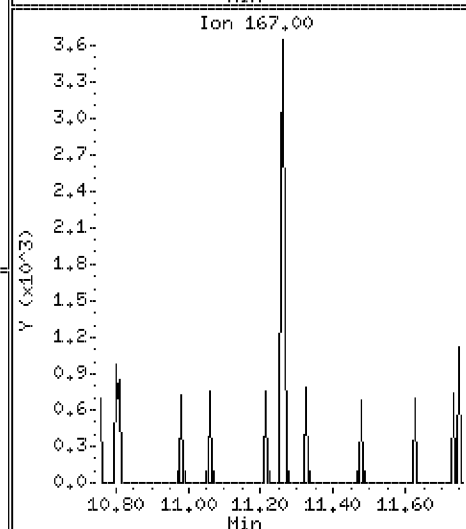
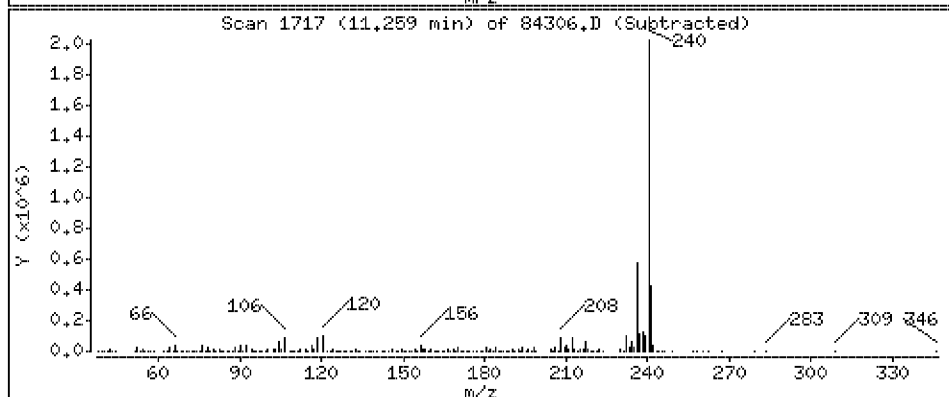
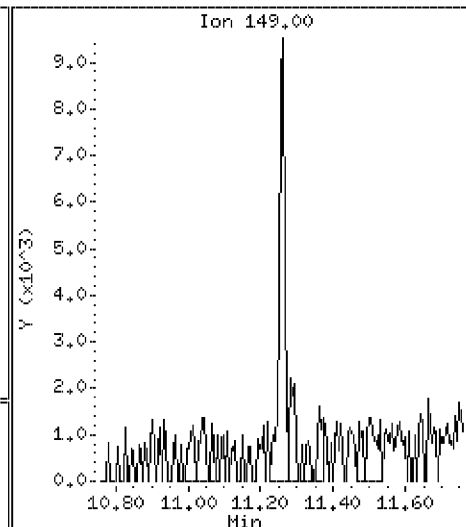
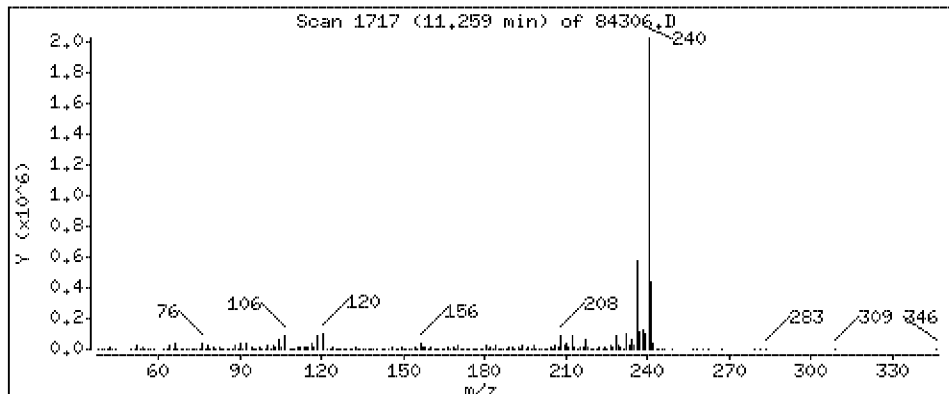
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

124 Bis-2-Ethylhexylphthalate

Concentration: 17.9 ug/kg



Date : 04-MAY-2012 14:57

Client ID: EPAFMC-SD-10

Instrument: smsd03.i

Sample Info: SW350584306

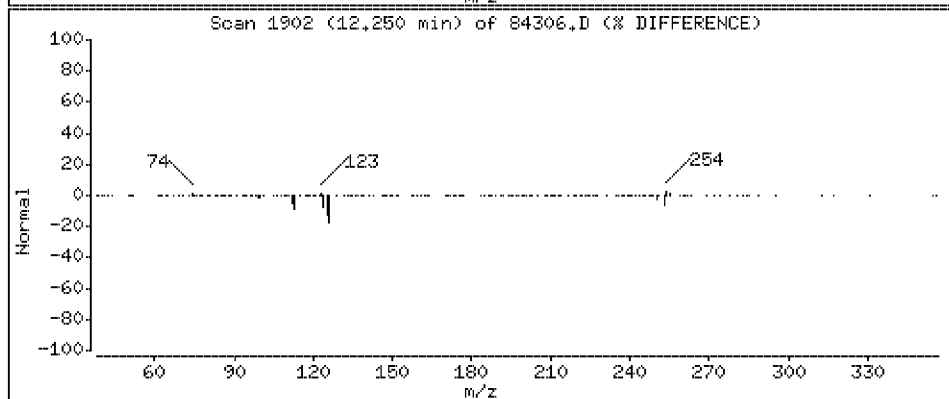
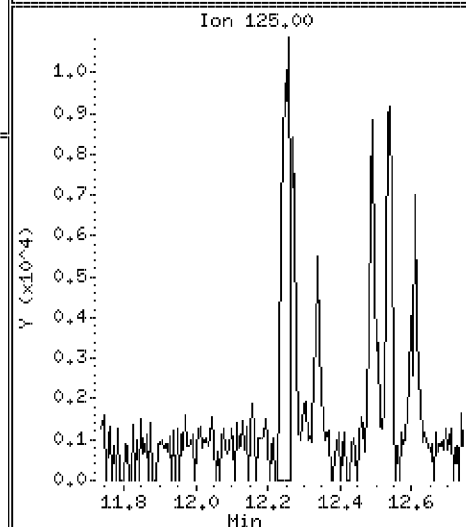
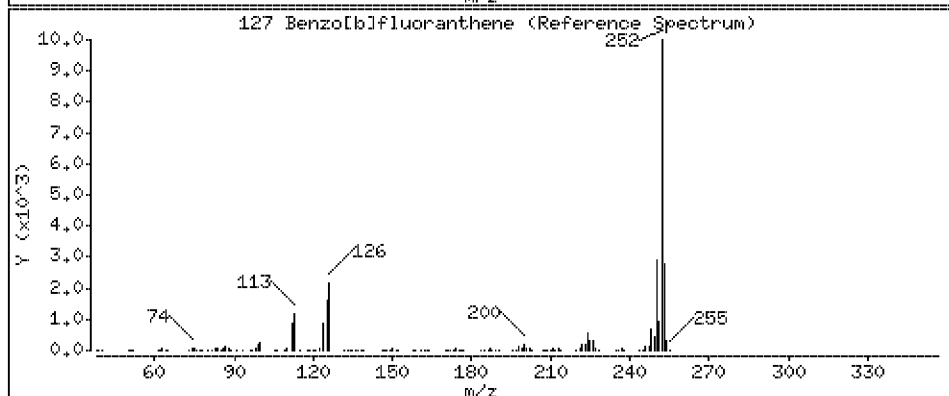
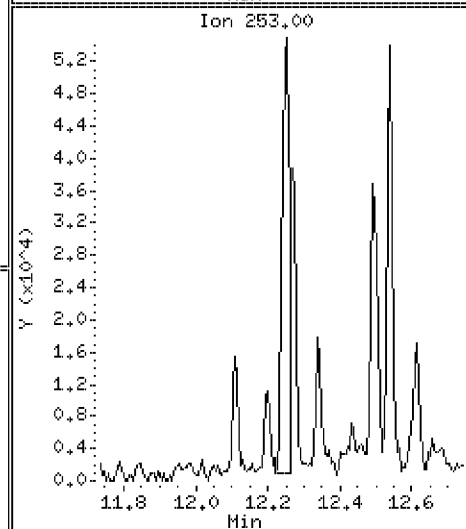
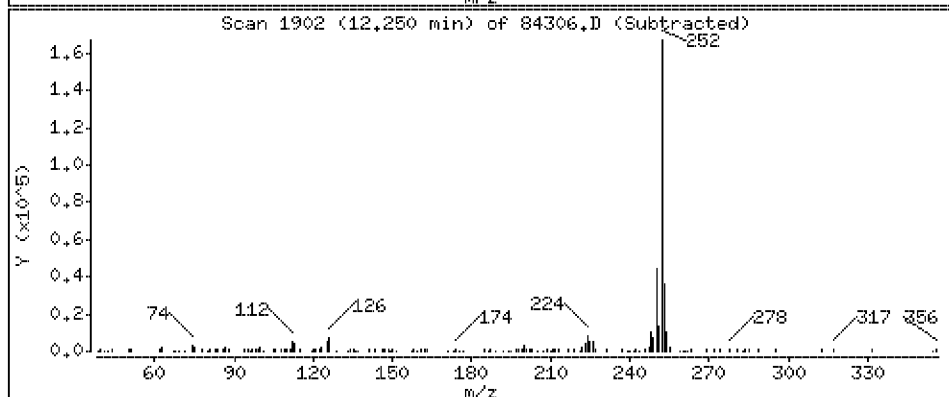
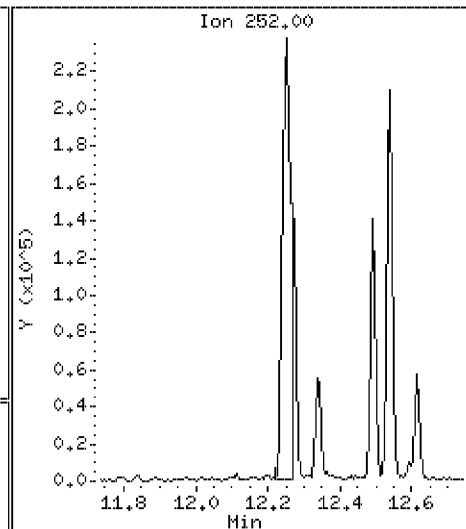
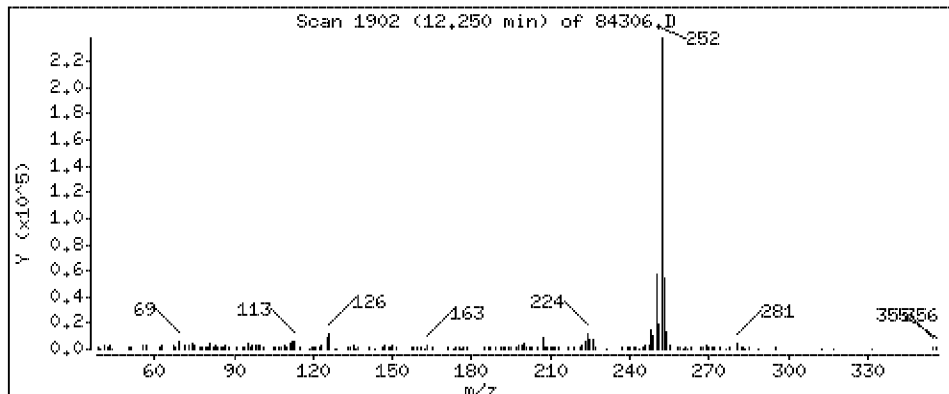
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

127 Benzo[b]fluoranthene

Concentration: 350 ug/kg



Date : 04-MAY-2012 14:57

Client ID: EPAFMC-SD-10

Instrument: smsd03.i

Sample Info: SW350584306

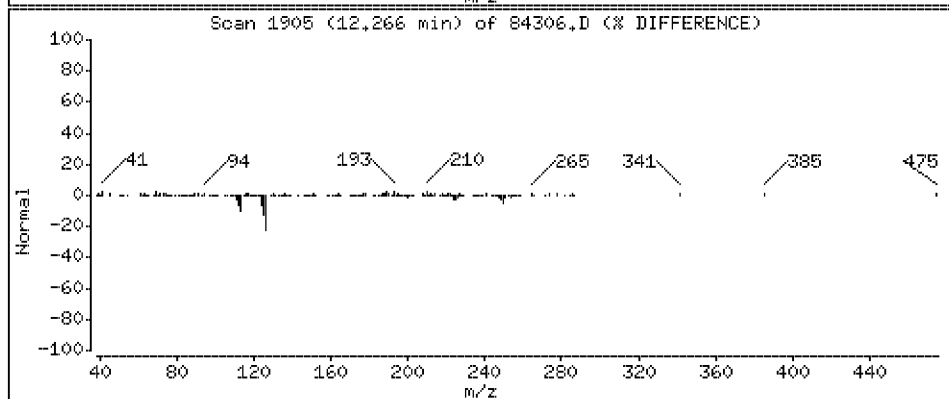
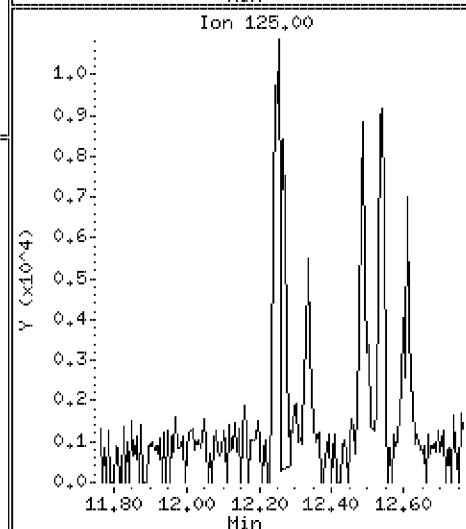
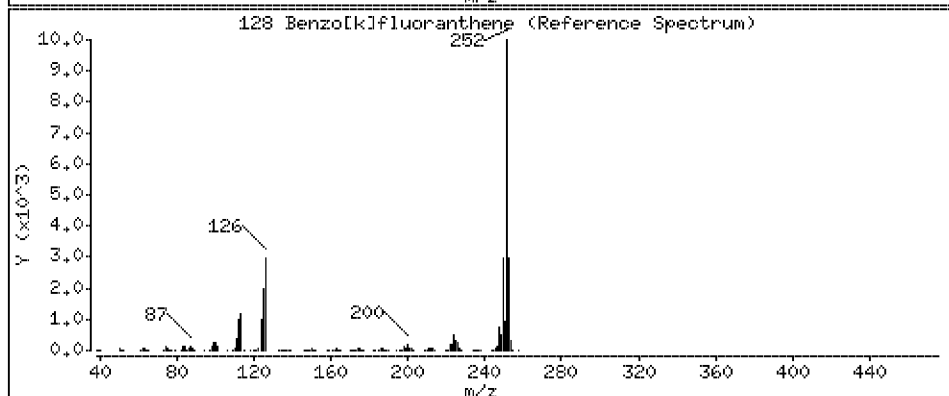
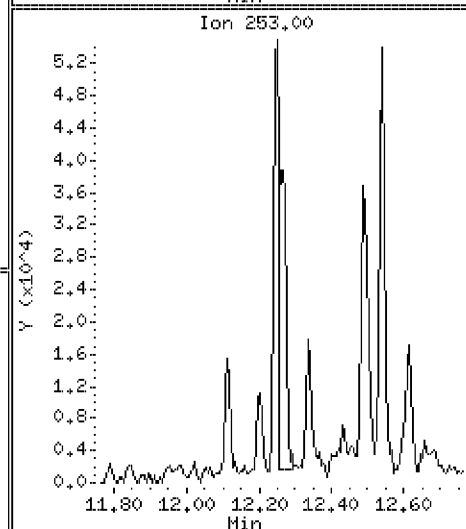
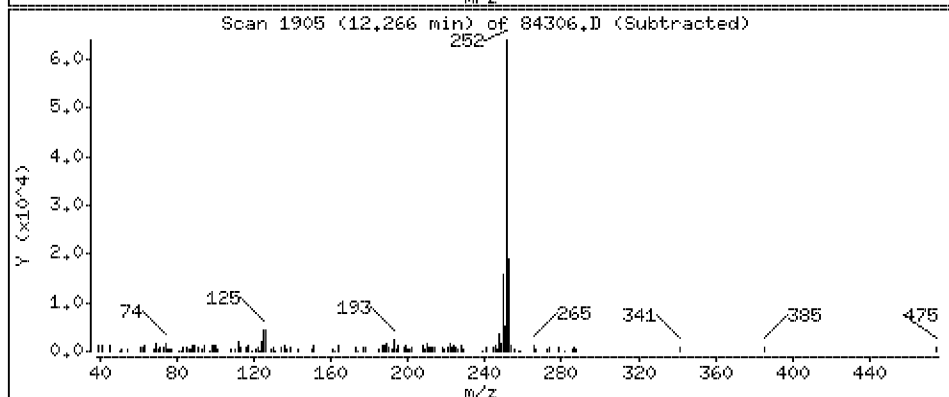
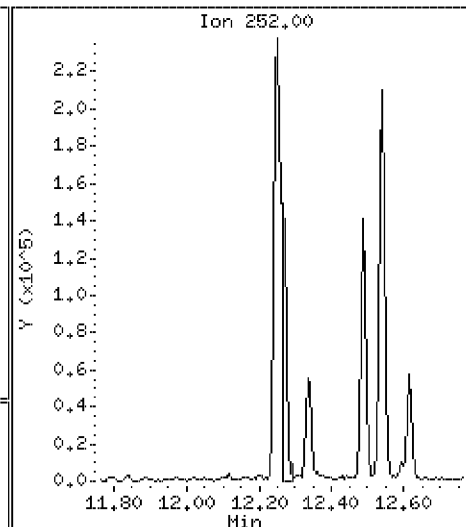
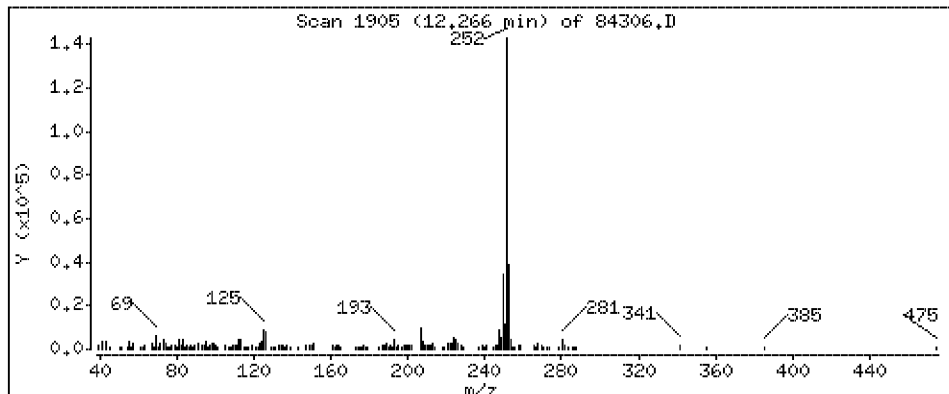
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

128 Benzo[k]fluoranthene

Concentration: 123 ug/kg



Date : 04-MAY-2012 14:57

Client ID: EPAFMC-SD-10

Instrument: smsd03.i

Sample Info: SW350584306

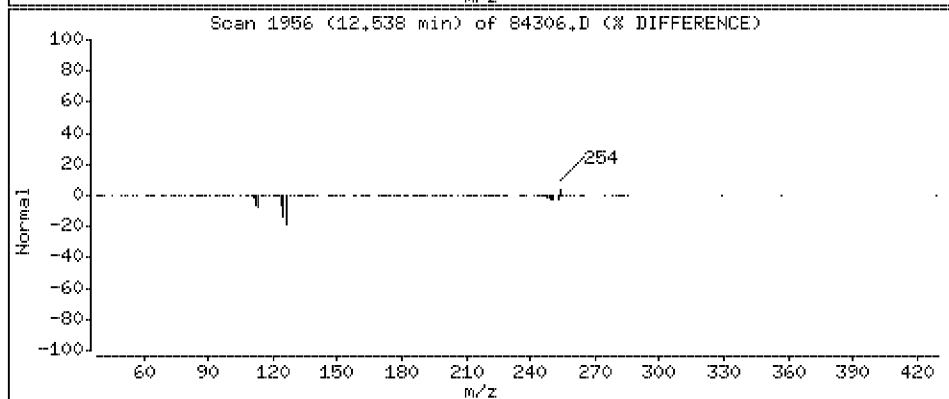
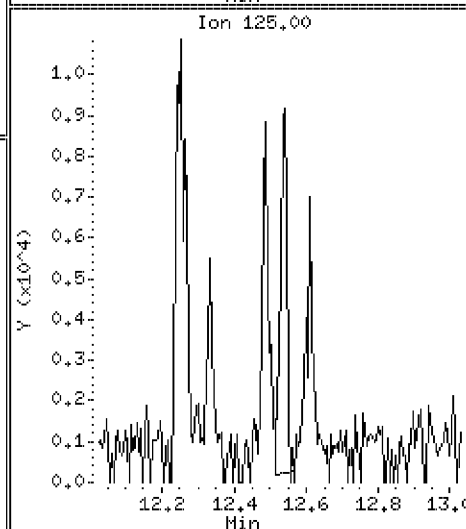
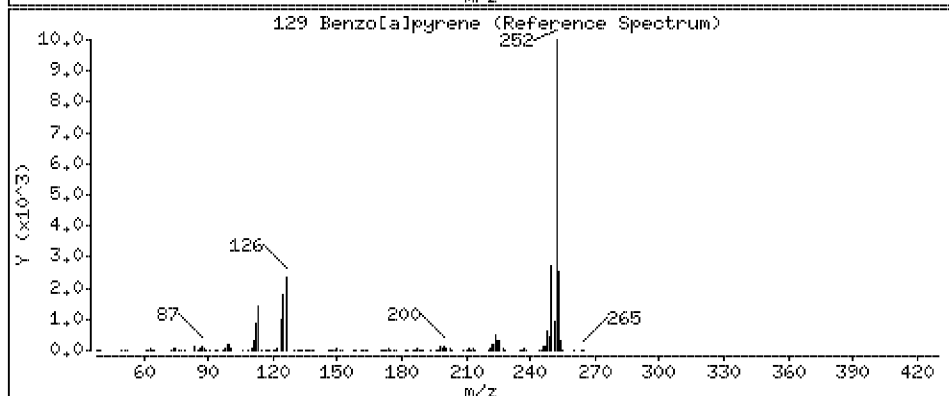
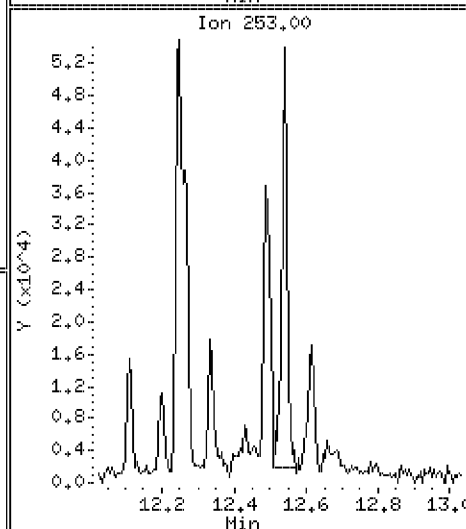
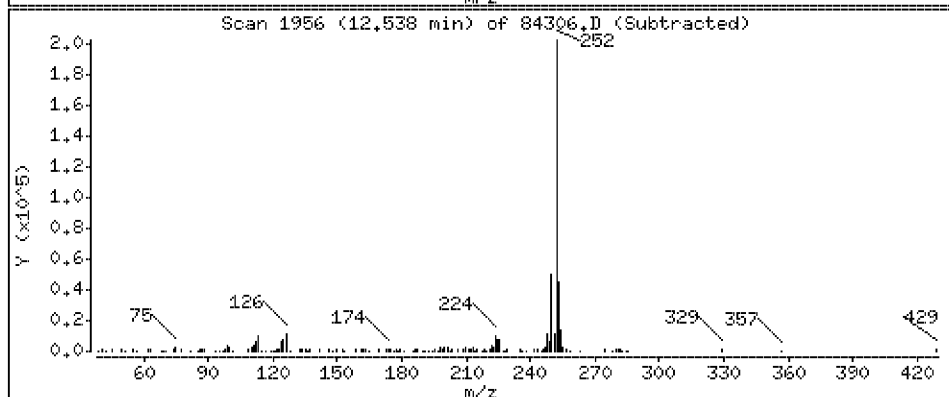
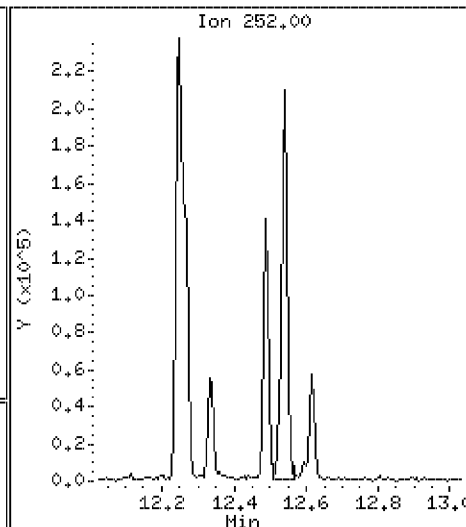
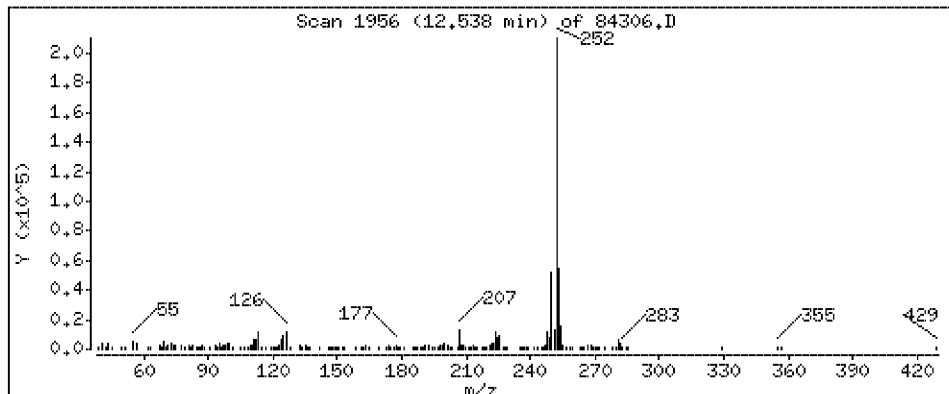
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

129 Benzo[ap]pyrene

Concentration: 227 ug/kg



Date : 04-MAY-2012 14:57

Client ID: EPAFMC-SD-10

Instrument: smsd03.i

Sample Info: SW350584306

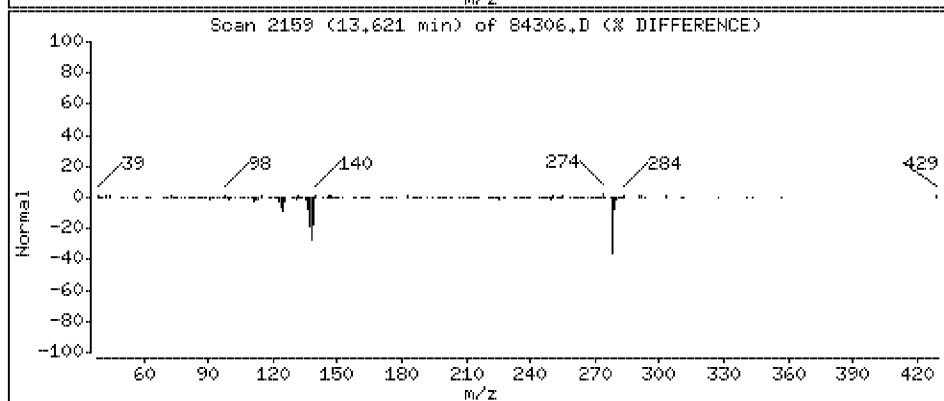
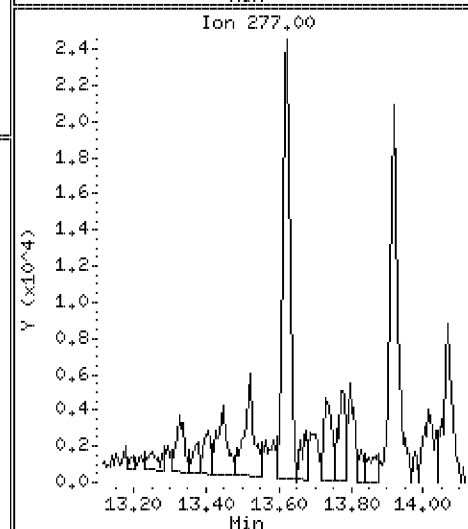
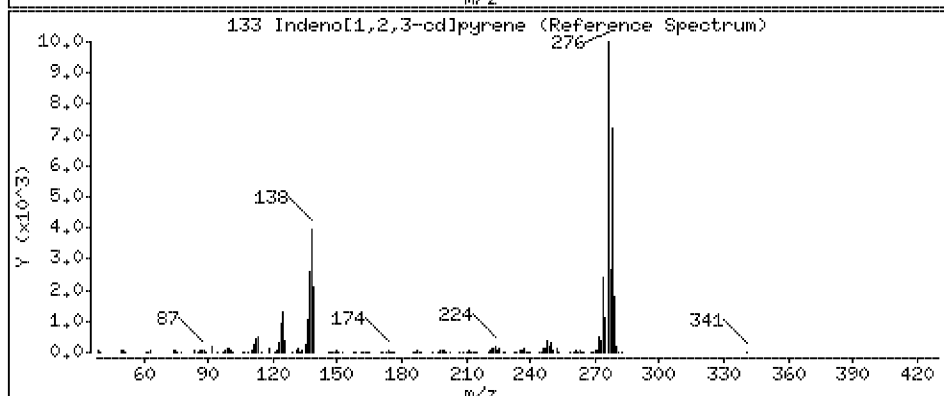
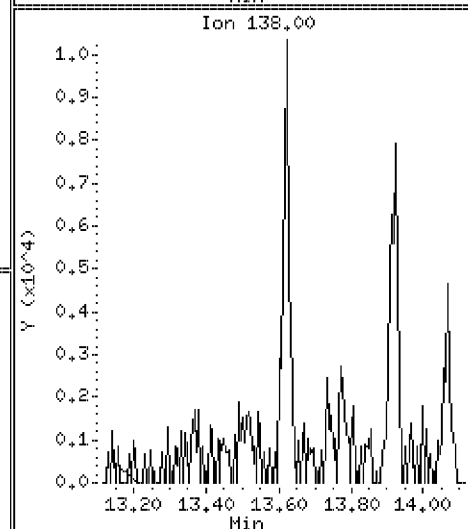
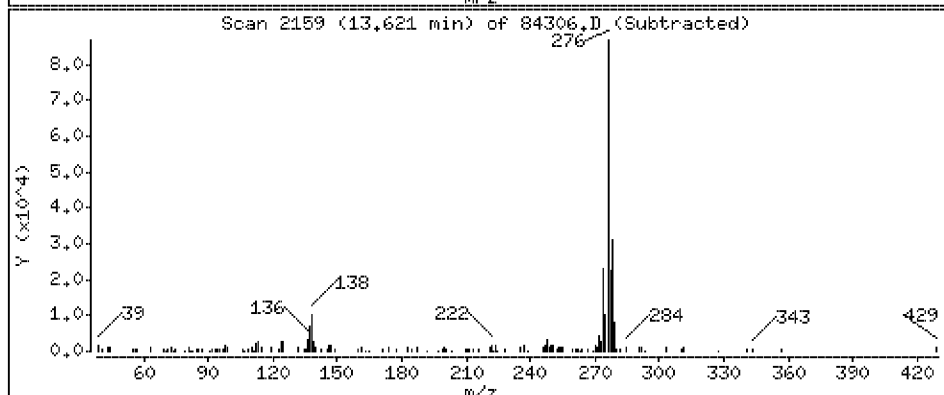
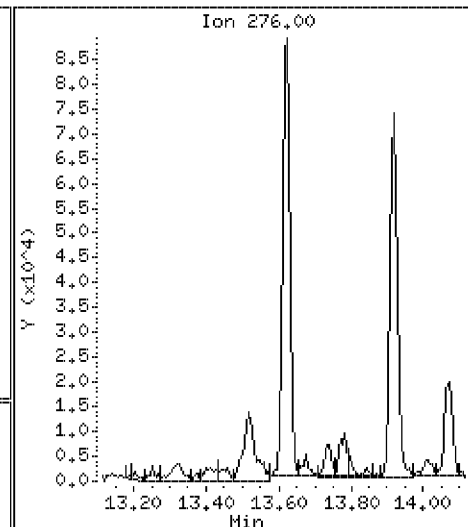
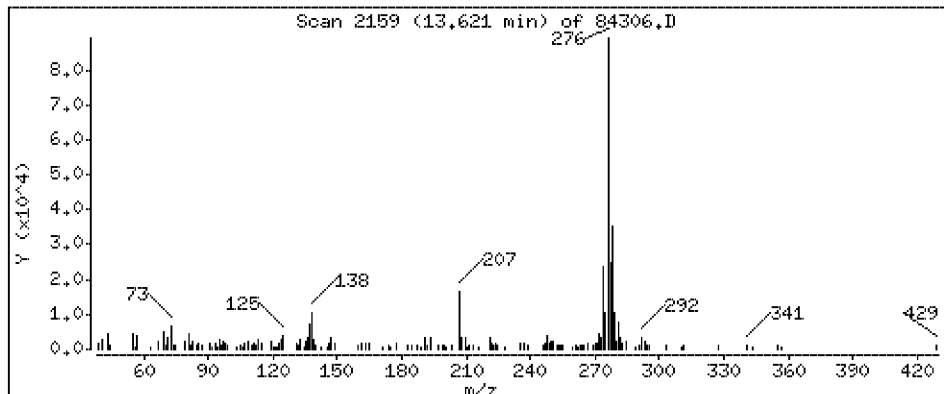
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

133 Indeno[1,2,3-cd]pyrene

Concentration: 104 ug/kg



Date : 04-MAY-2012 14:57

Client ID: EPAFMC-SD-10

Instrument: smsd03.i

Sample Info: SW350584306

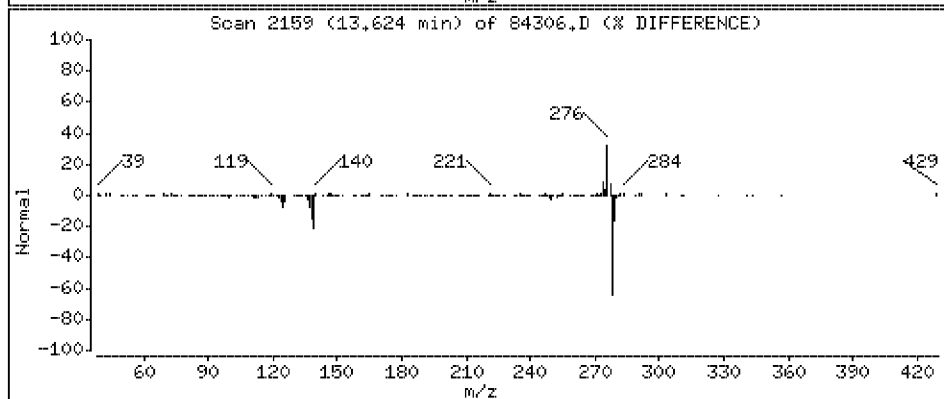
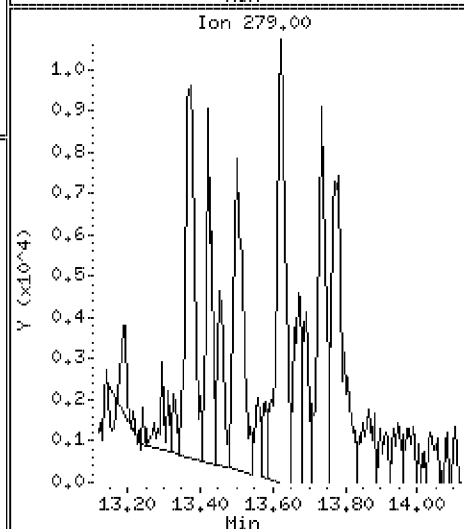
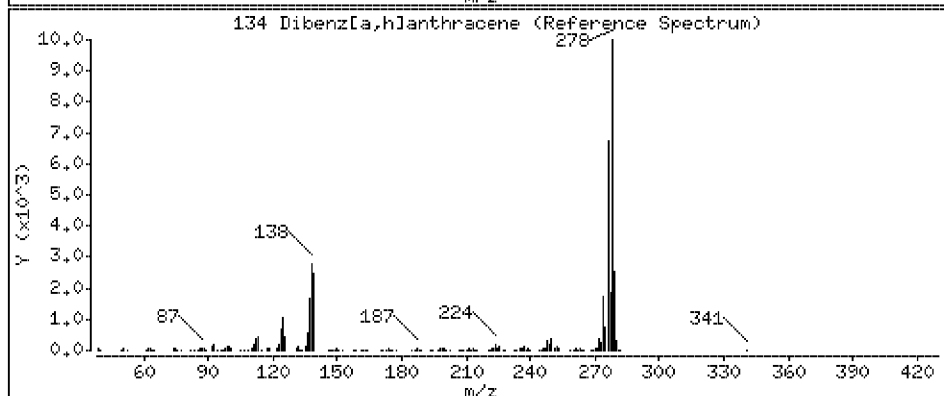
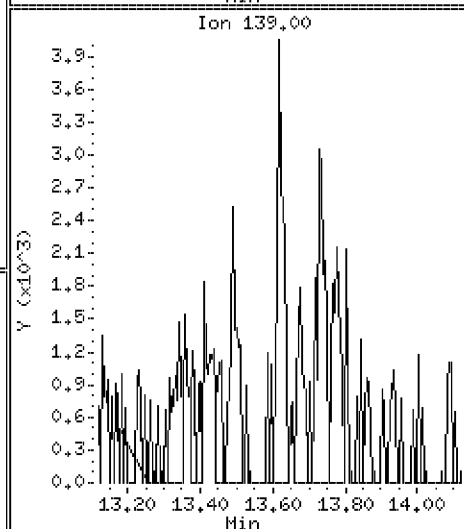
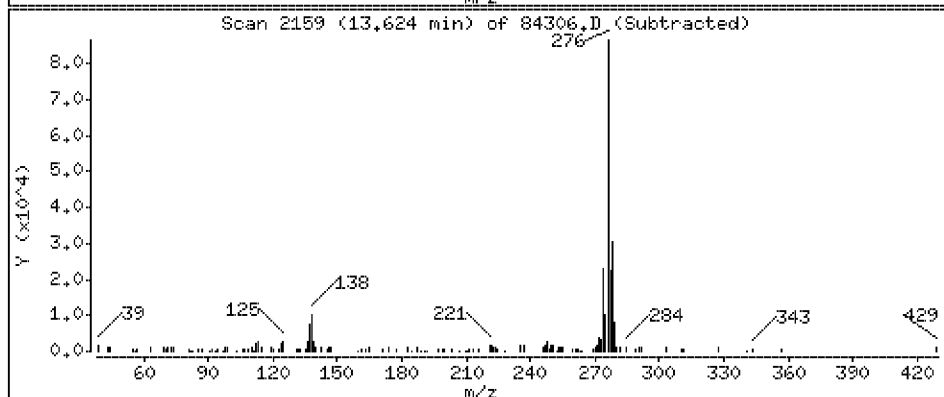
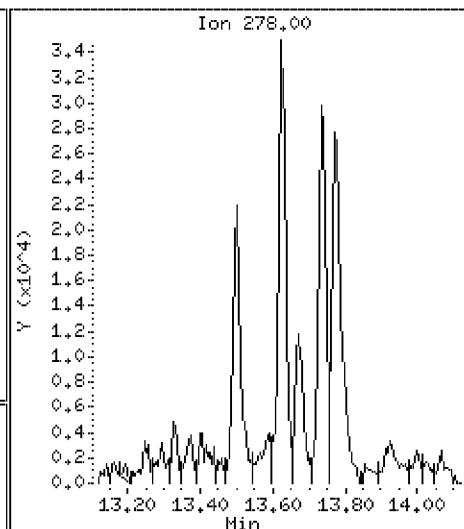
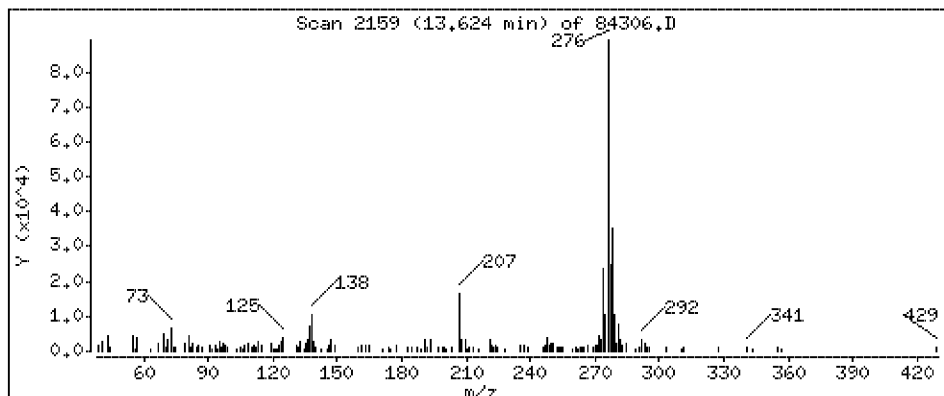
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

134 Dibenz[a,h]anthracene

Concentration: 50.2 ug/kg



Date : 04-MAY-2012 14:57

Client ID: EPAFMC-SD-10

Instrument: smsd03.i

Sample Info: SW350584306

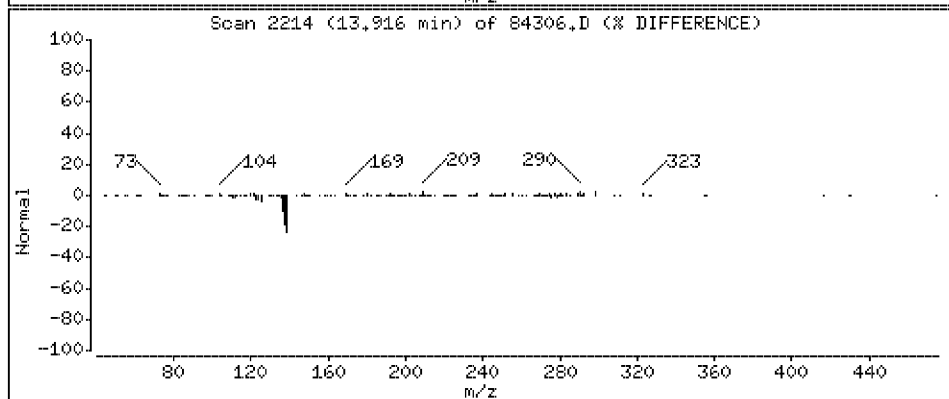
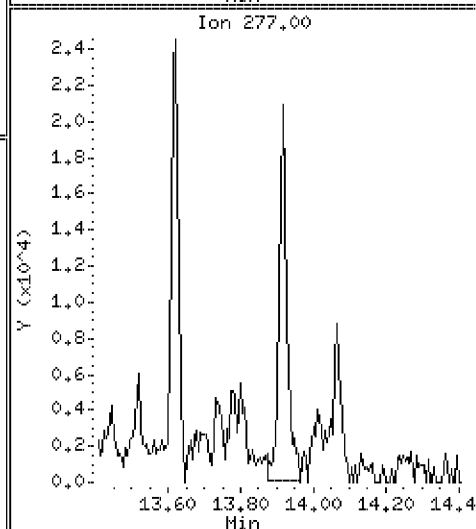
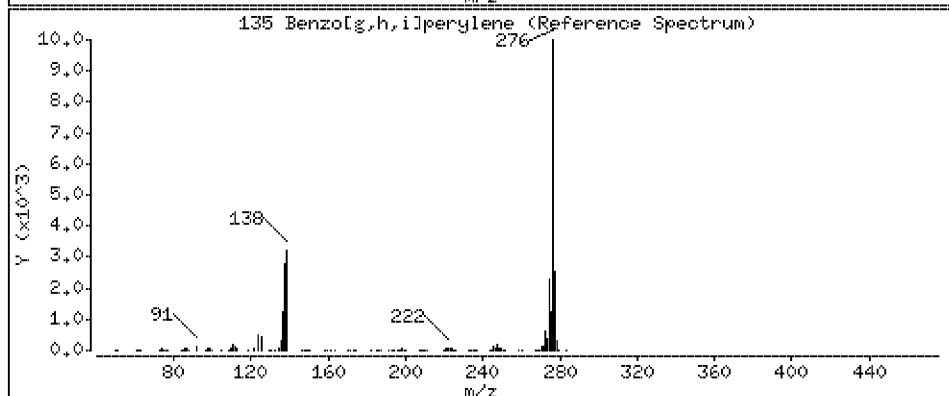
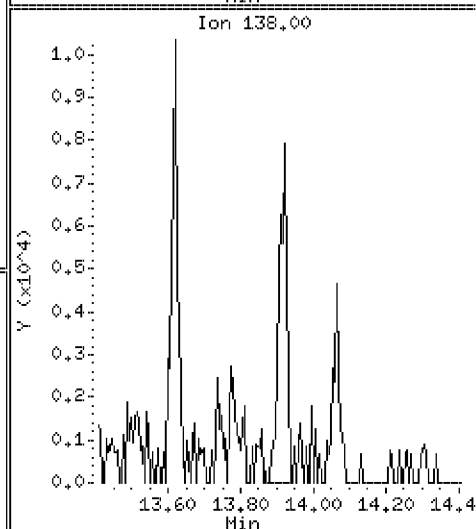
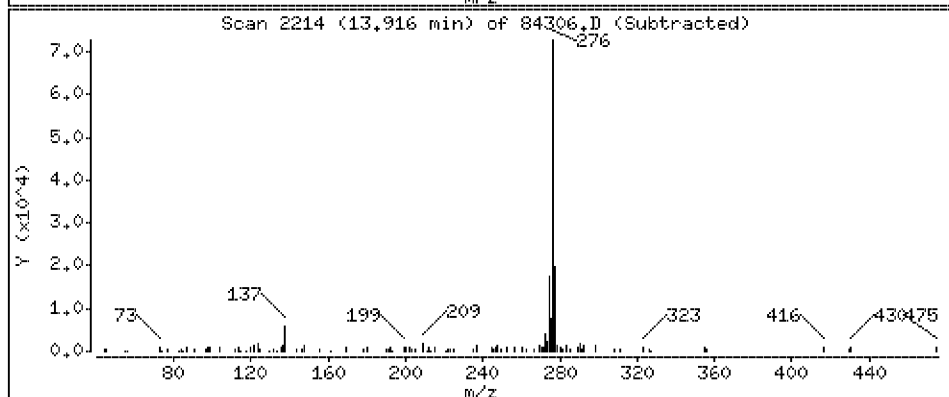
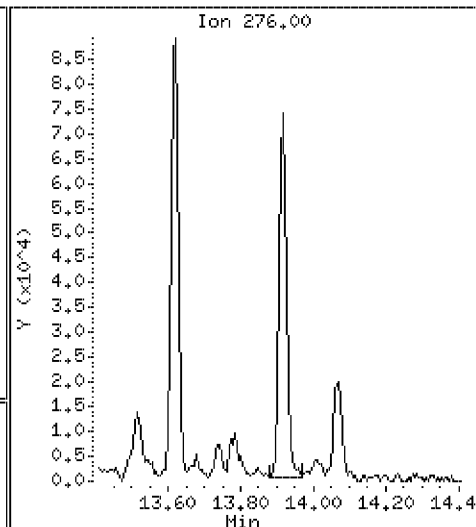
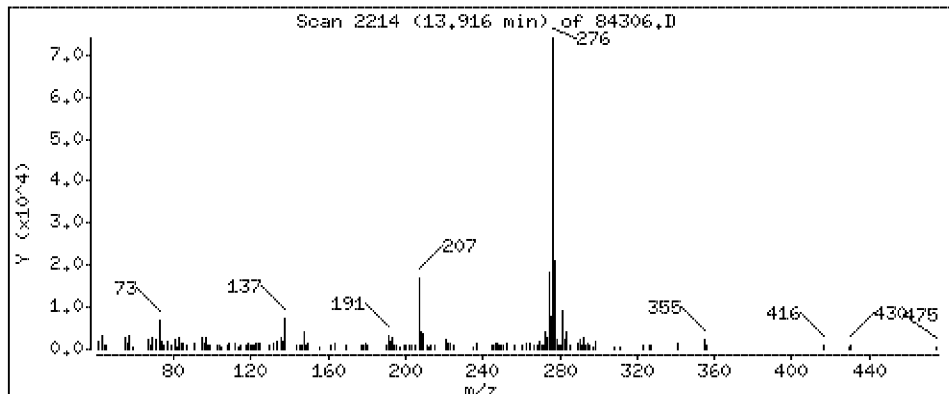
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

135 Benzo[g,h,i]perylene

Concentration: 118 ug/kg



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3050412.b\84307.D
 Lab Smp Id: 350584307 Client Smp ID: EPAFMC-SD-11
 Inj Date : 04-MAY-2012 15:21 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : SW350584307
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3050412.b\8270bcs.m
 Meth Date : 07-May-2012 17:35 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 18:17 Cal File: AP9CAL4.D
 Als bottle: 14
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.150	Weight of sample extracted (g)
M	21.600	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.354	4.352 (1.000)		152	281531	40.0000		80.00- 120.00	100.00	
4.353	4.352 (1.000)		115	177528			31.12- 91.12	63.06	
4.353	4.352 (1.000)		150	424232			117.02- 177.02	150.69	
* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.514	5.513 (1.000)		136	951105	40.0000		80.00- 120.00	100.00	
5.513	5.513 (1.000)		68	49913			0.00- 35.11	5.25	
* 70 Acenaphthene-d10 CAS #: 15067-26-2									
7.209	7.208 (1.000)		164	666473	40.0000		80.00- 120.00	100.00	
7.209	7.208 (1.000)		162	648323			66.36- 126.36	97.28	
7.209	7.208 (1.000)		160	293670			14.03- 74.03	44.06	
* 100 Phenanthrene-d10 CAS #: 1517-22-2									
8.664	8.665 (1.000)		188	1346205	40.0000		80.00- 120.00	100.00	
8.663	8.665 (1.000)		94	80925			0.00- 36.25	6.01	
8.662	8.665 (1.000)		80	98103			0.00- 37.67	7.29	
* 121 Chrysene-d12 CAS #: 1719-03-5									
11.261	11.259 (1.000)		240	1767181	40.0000		80.00- 120.00	100.00	

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET	RANGE	RATIO
====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 121 Chrysene-d12 (continued)									
11.260	11.259	(1.000)	120	96679			0.00-	34.90	5.47
11.261	11.259	(1.000)	236	464059			0.00-	56.56	26.26

* 130 Perylene-d12									
							CAS #: 1520-96-3		
12.591	12.576	(1.000)	264	1746585	40.0000		80.00-	120.00	100.00
12.591	12.576	(1.000)	260	432515			0.00-	54.67	24.76
12.591	12.576	(1.000)	265	405498			0.00-	53.09	23.22

Date : 04-MAY-2012 15:21

Client ID: EPAFMC-SD-11

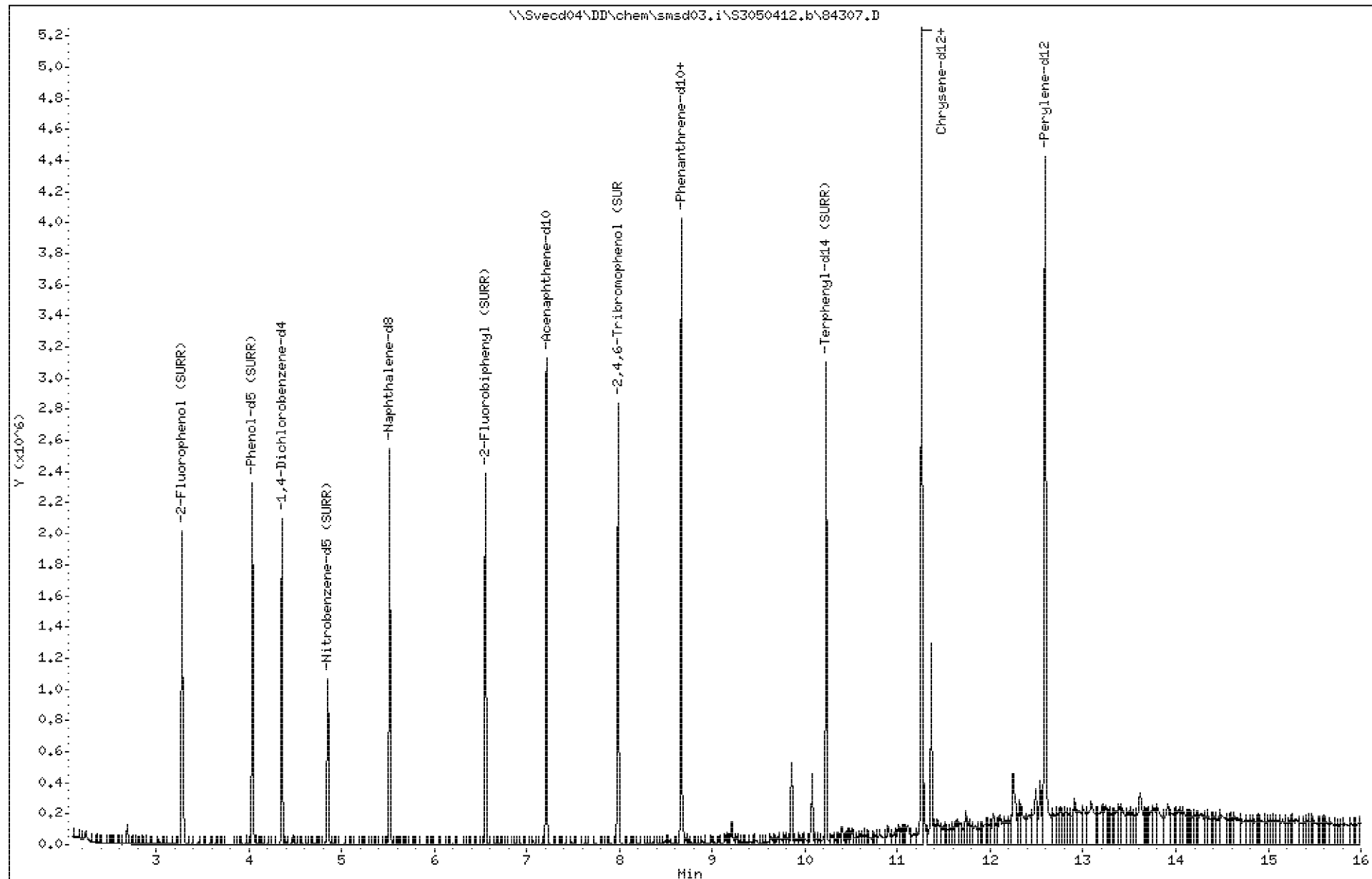
Sample Info: SN350584307

Instrument: smsd03.i

Operator: PEL

Column diameter: 0.25

Column phase: HPMS-5



Date : 04-MAY-2012 15:21

Client ID: EPAFMC-SD-11

Instrument: smsd03.i

Sample Info: SW350584307

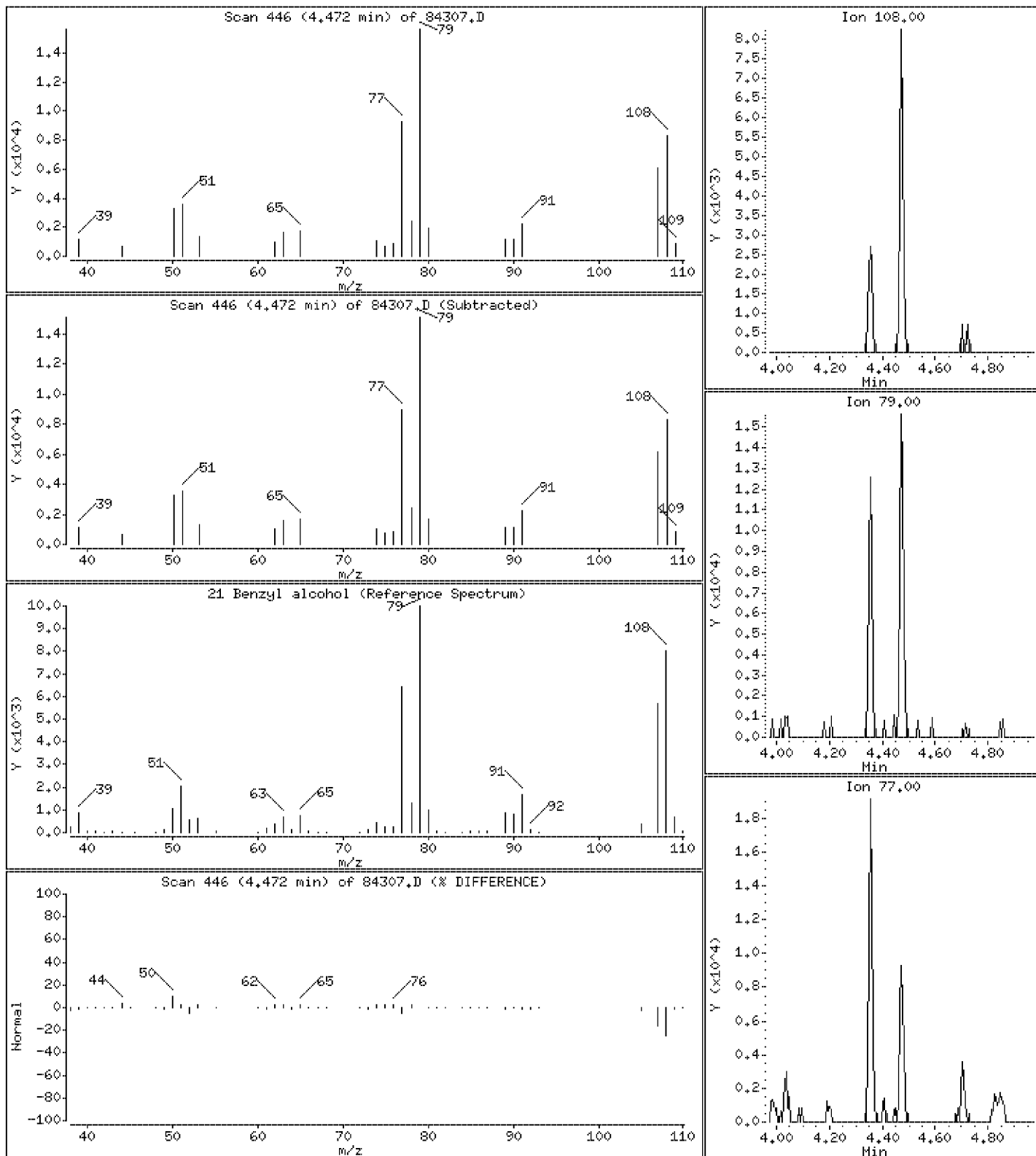
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

21 Benzyl alcohol

Concentration: 64.0 ug/kg



Date : 04-MAY-2012 15:21

Client ID: EPAFMC-SD-11

Instrument: smsd03.i

Sample Info: SW350584307

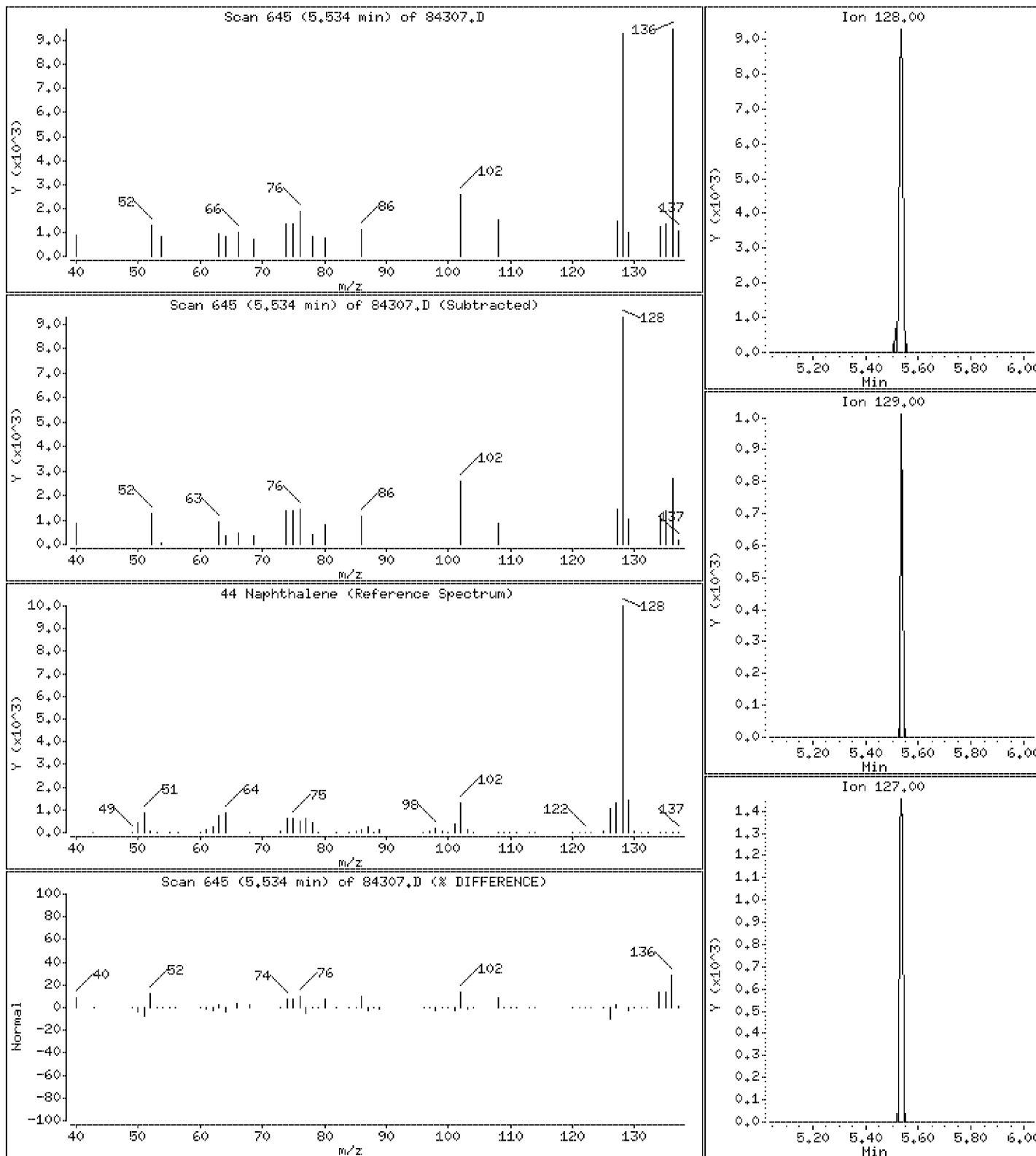
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

44 Naphthalene

Concentration: 18.8 ug/kg



Date : 04-MAY-2012 15:21

Client ID: EPAFMC-SD-11

Instrument: smsd03.i

Sample Info: SW350584307

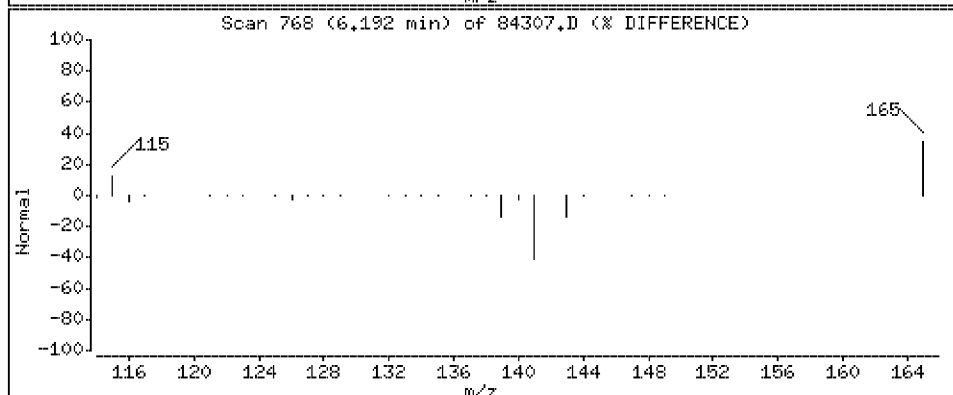
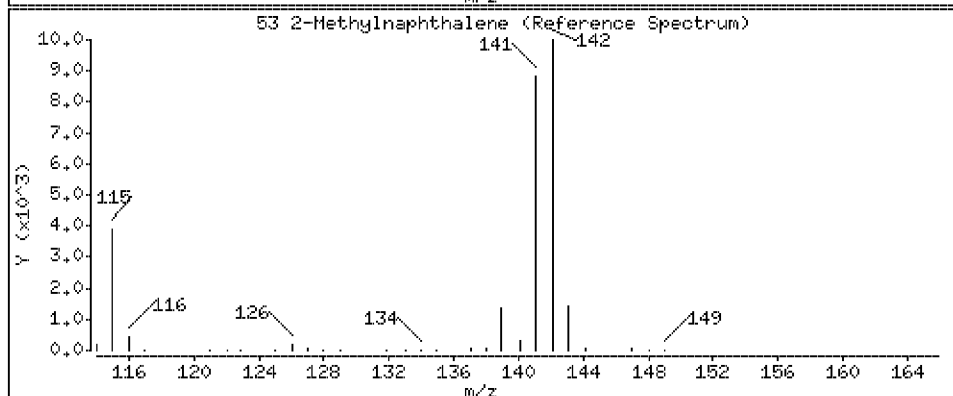
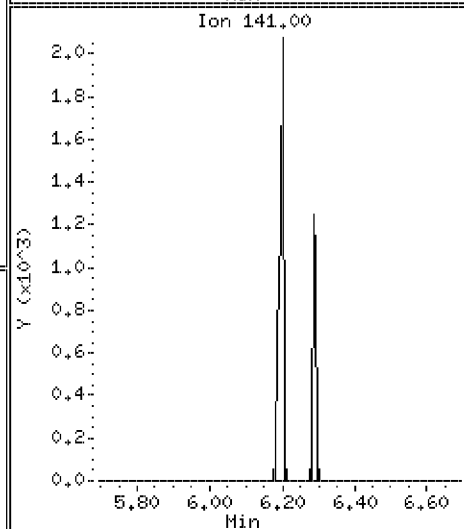
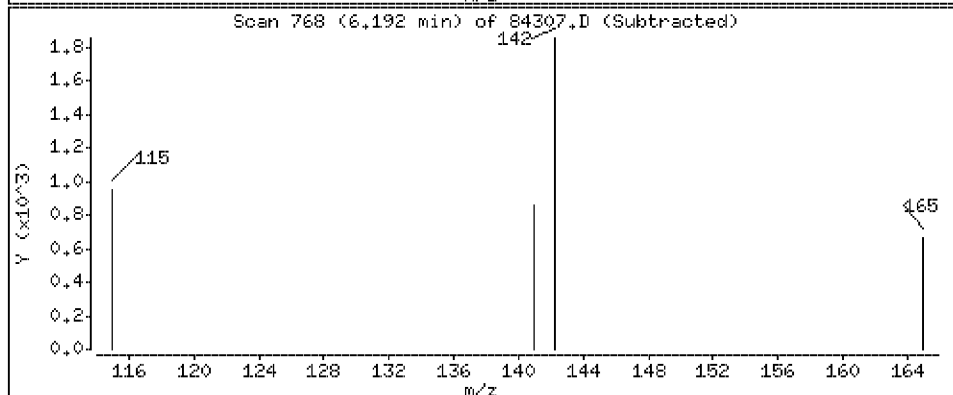
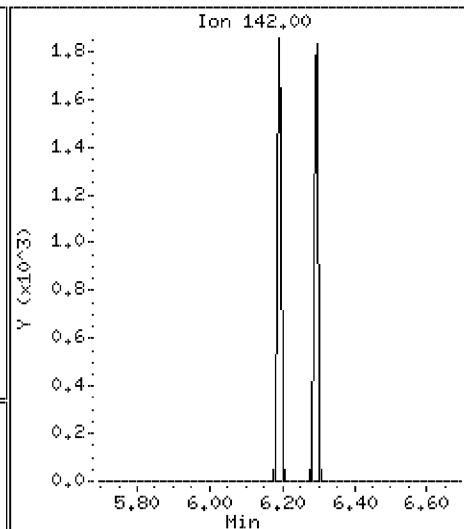
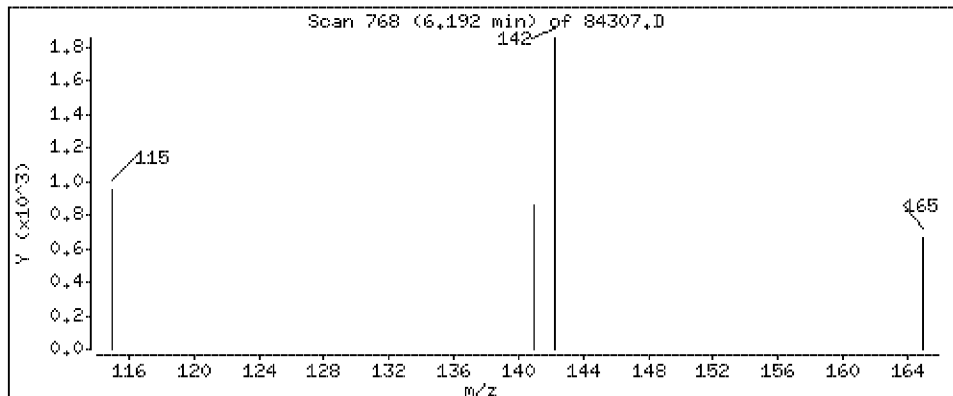
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

53 2-Methylnaphthalene

Concentration: 4.0 ug/kg



Date : 04-MAY-2012 15:21

Client ID: EPAFMC-SD-11

Instrument: smsd03.i

Sample Info: SW350584307

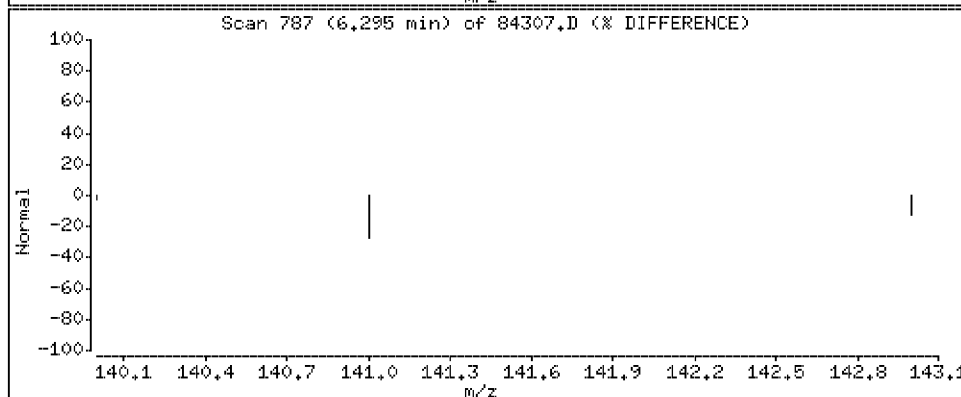
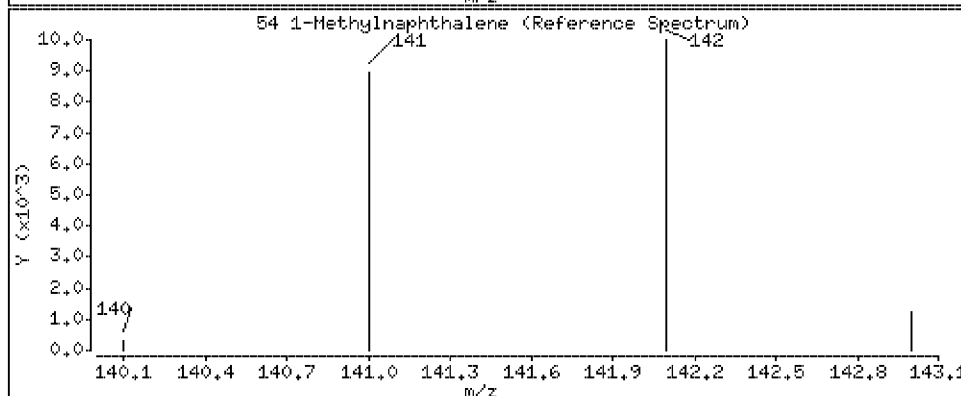
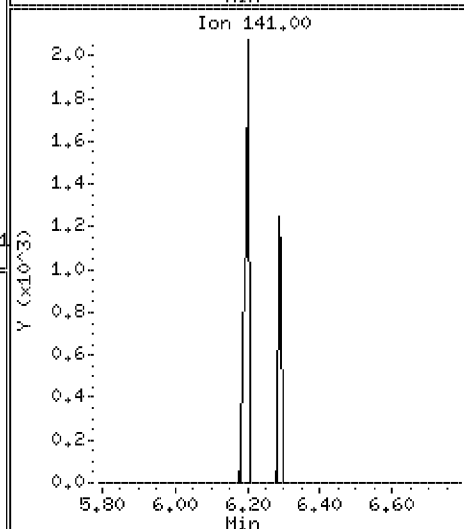
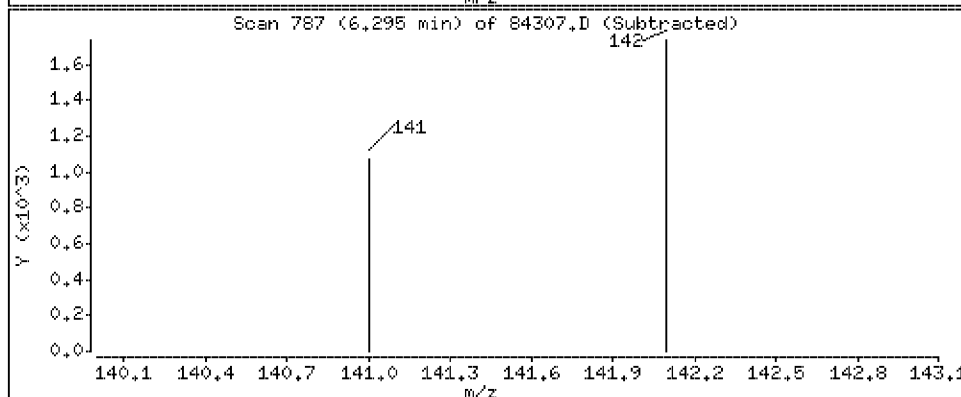
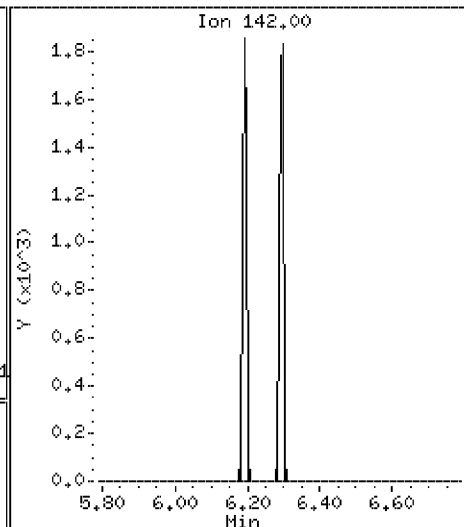
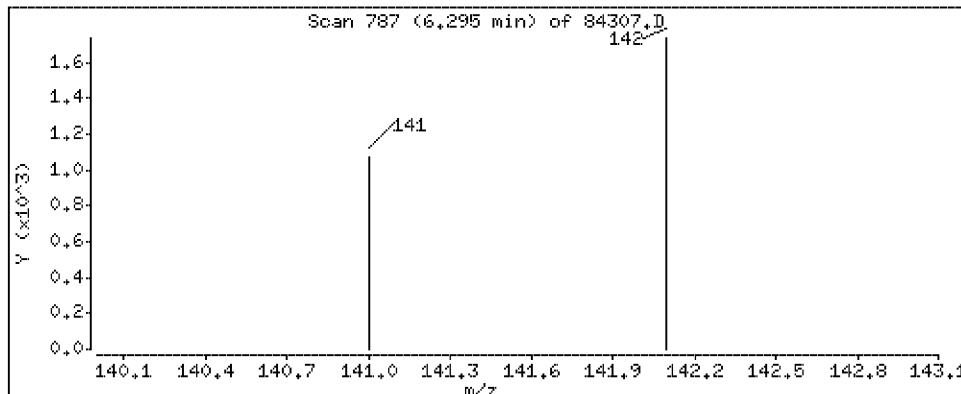
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

54 1-Methylnaphthalene

Concentration: 4.4 ug/kg



Date : 04-MAY-2012 15:21

Client ID: EPAFMC-SD-11

Instrument: smsd03.i

Sample Info: SW350584307

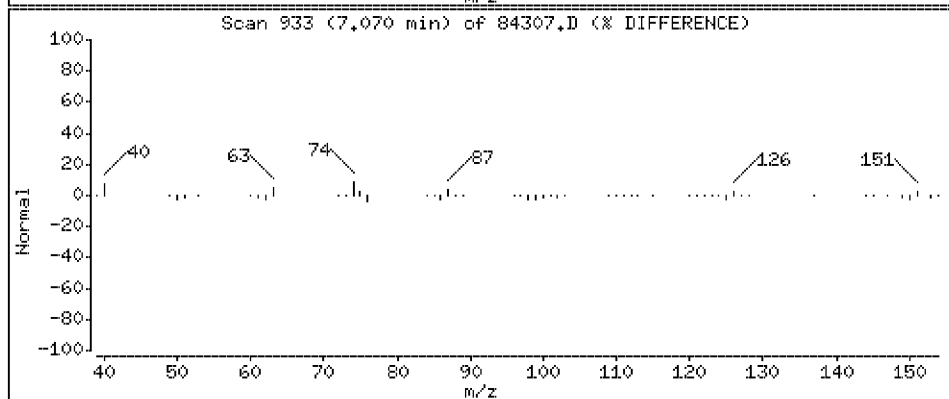
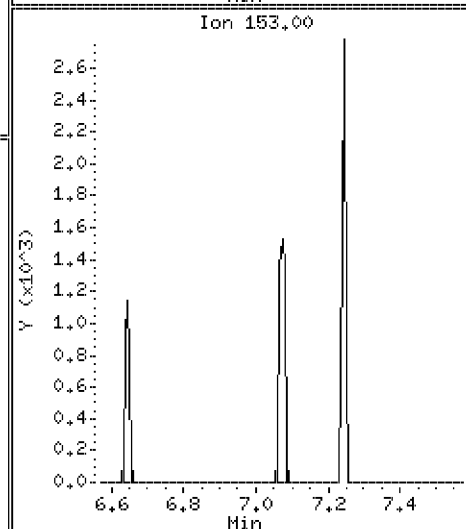
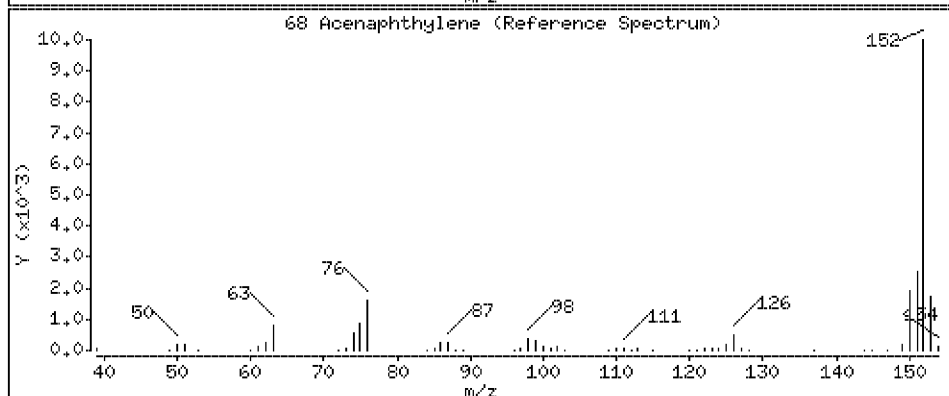
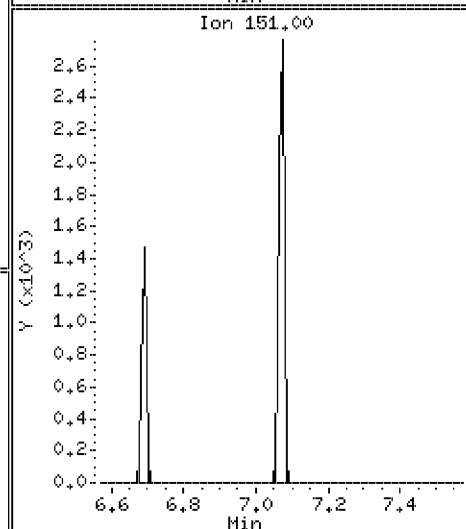
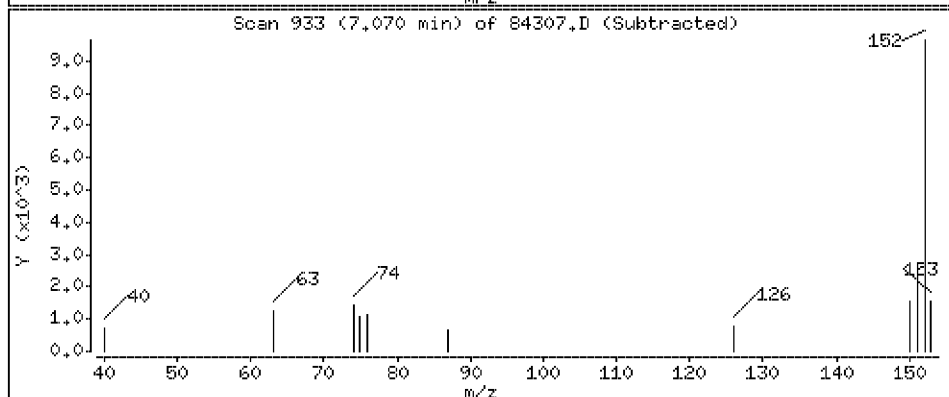
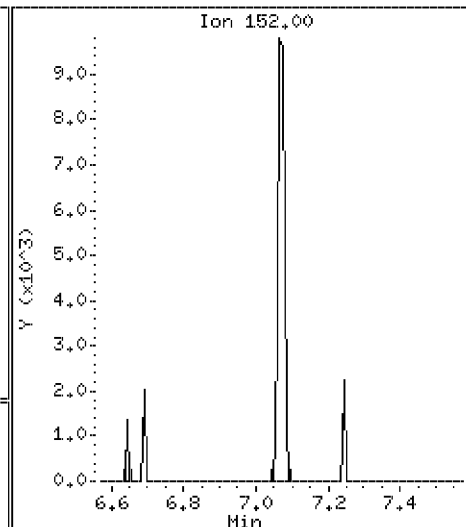
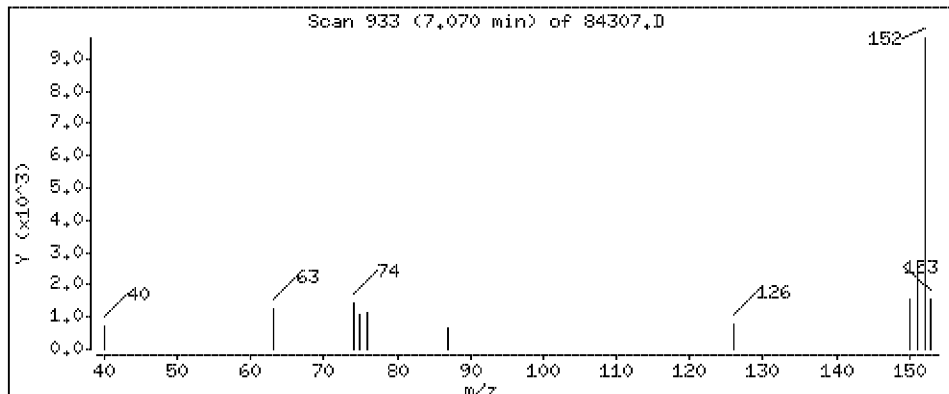
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

68 Acenaphthylene

Concentration: 17.0 ug/kg



Date : 04-MAY-2012 15:21

Client ID: EPAFMC-SD-11

Instrument: smsd03.i

Sample Info: SW350584307

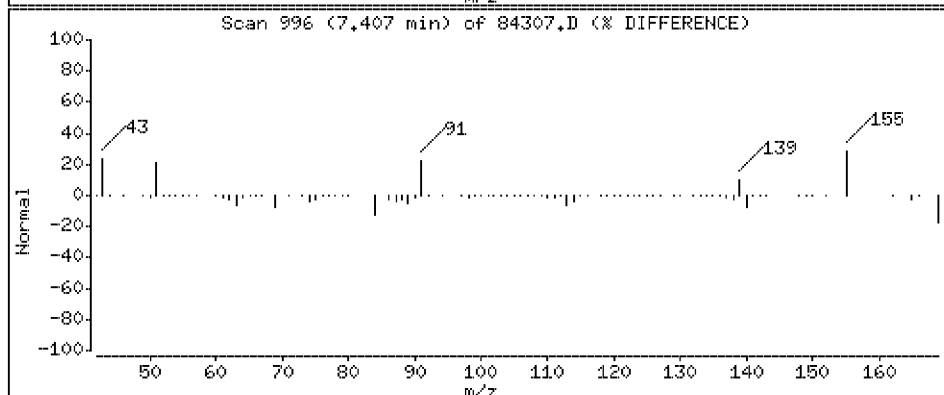
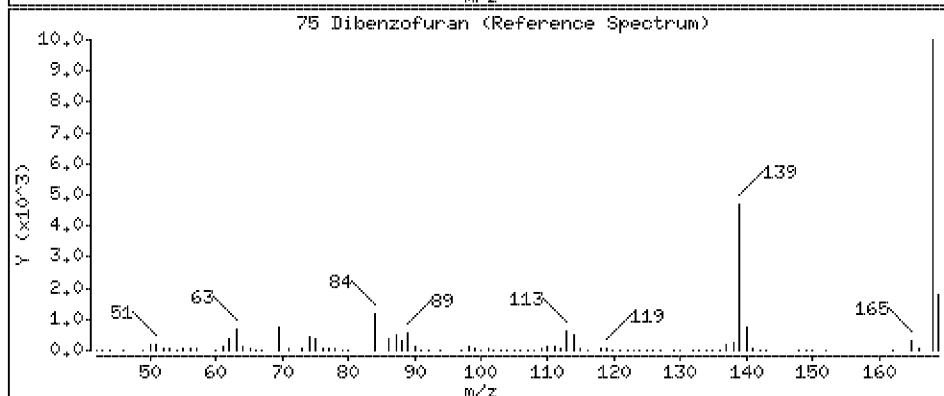
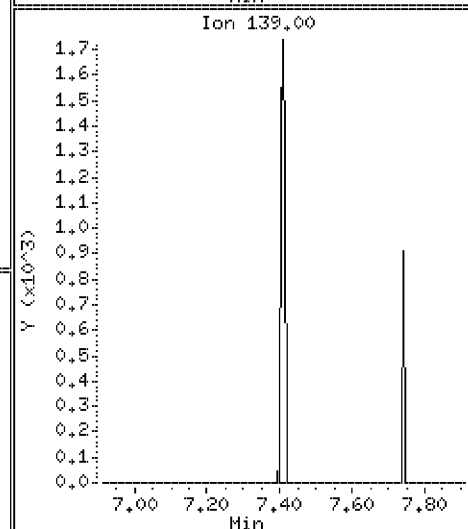
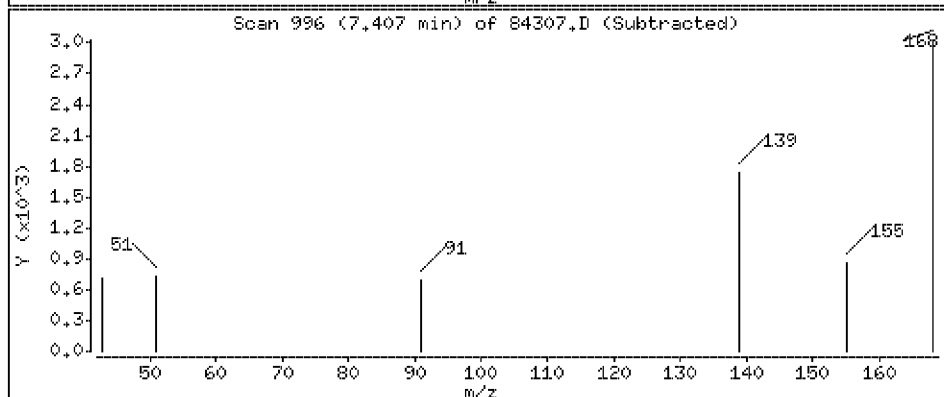
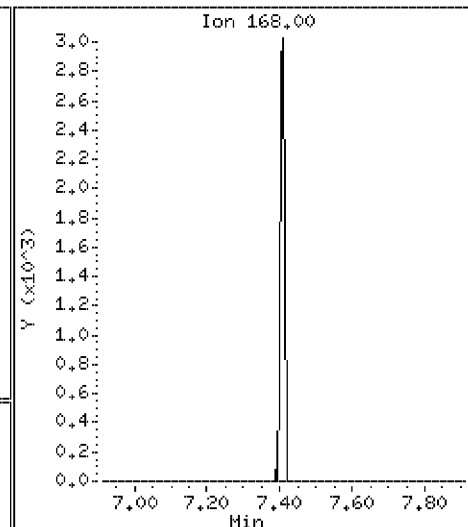
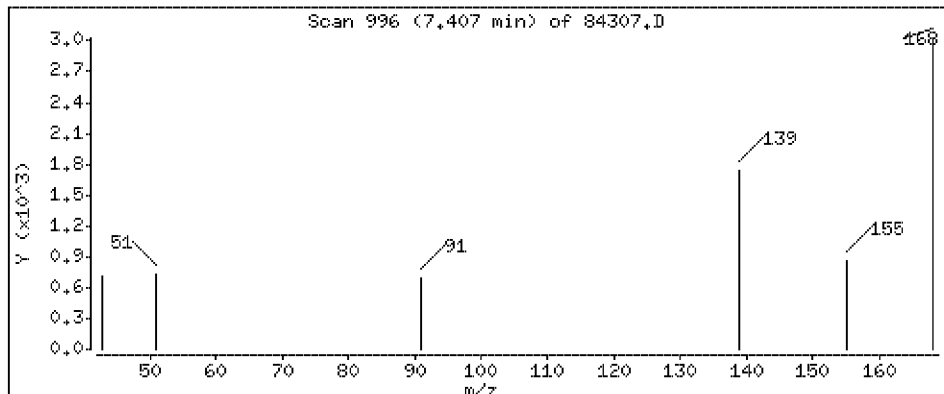
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

75 Dibenzofuran

Concentration: 4.7 ug/kg



Date : 04-MAY-2012 15:21

Client ID: EPAFMC-SD-11

Instrument: smsd03.i

Sample Info: SW350584307

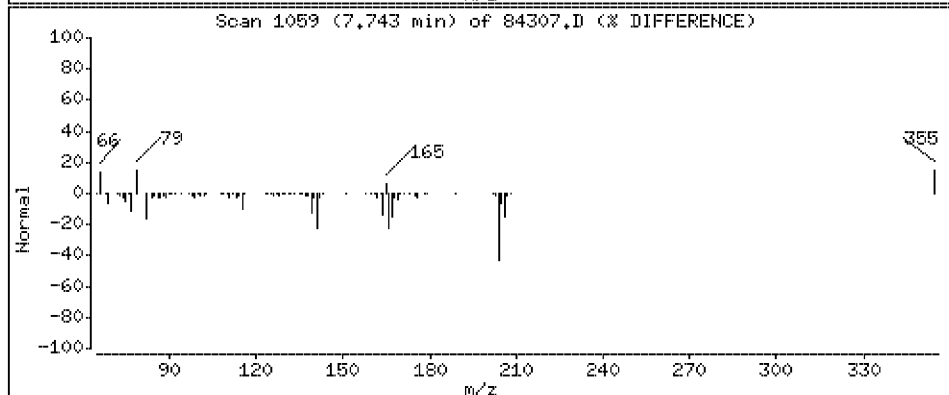
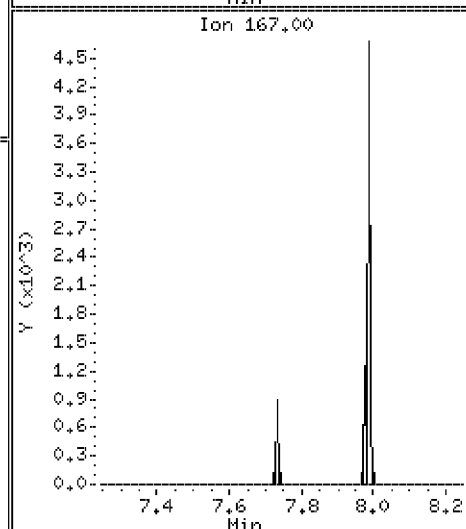
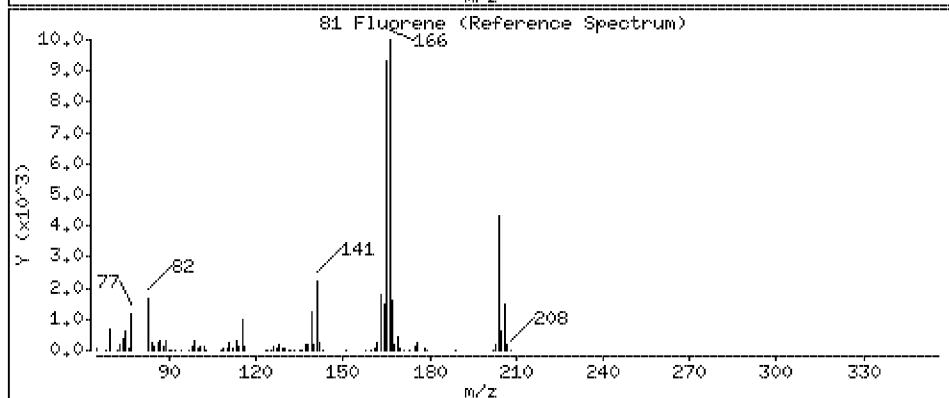
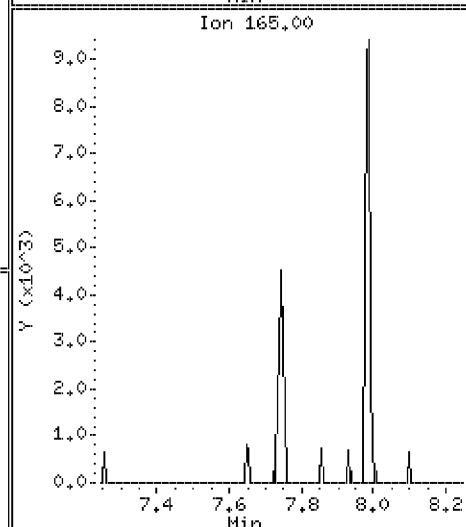
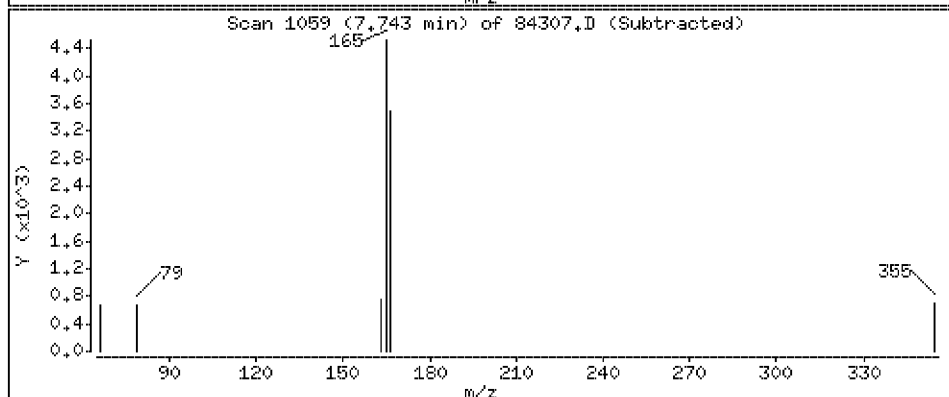
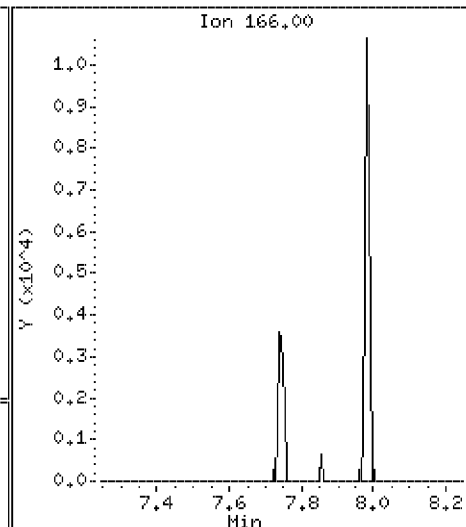
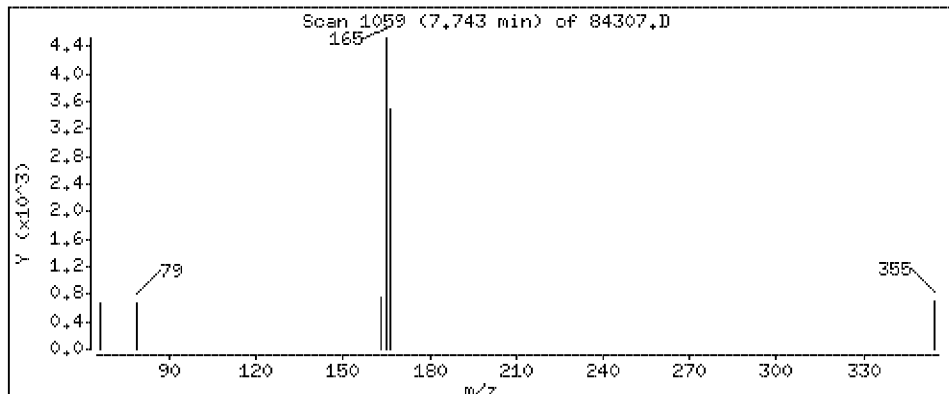
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

81 Fluorene

Concentration: 6.6 ug/kg



Date : 04-MAY-2012 15:21

Client ID: EPAFMC-SD-11

Instrument: smsd03.i

Sample Info: SW350584307

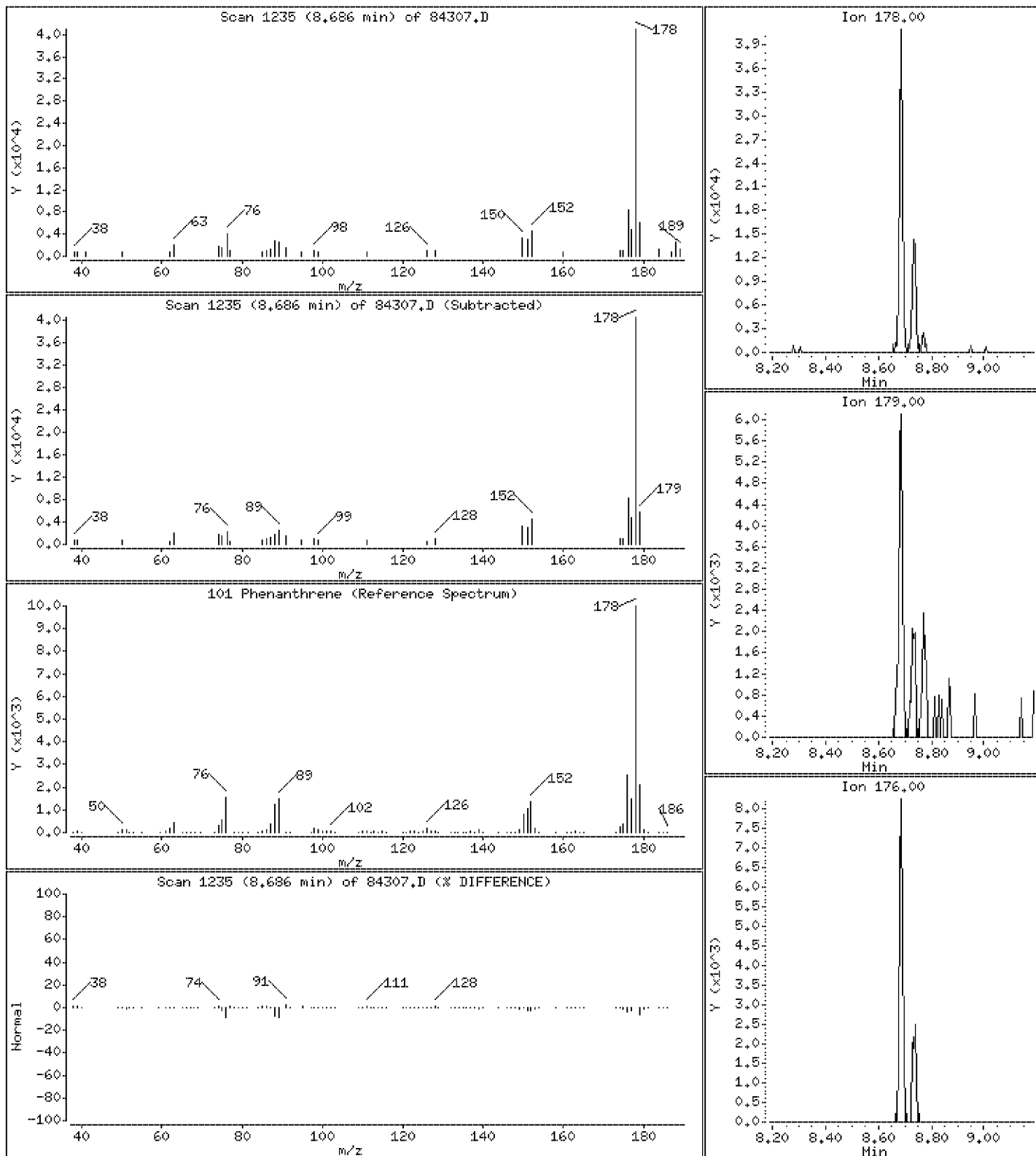
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

101 Phenanthrene

Concentration: 49.9 ug/kg



Date : 04-MAY-2012 15:21

Client ID: EPAFMC-SD-11

Instrument: smsd03.i

Sample Info: SW350584307

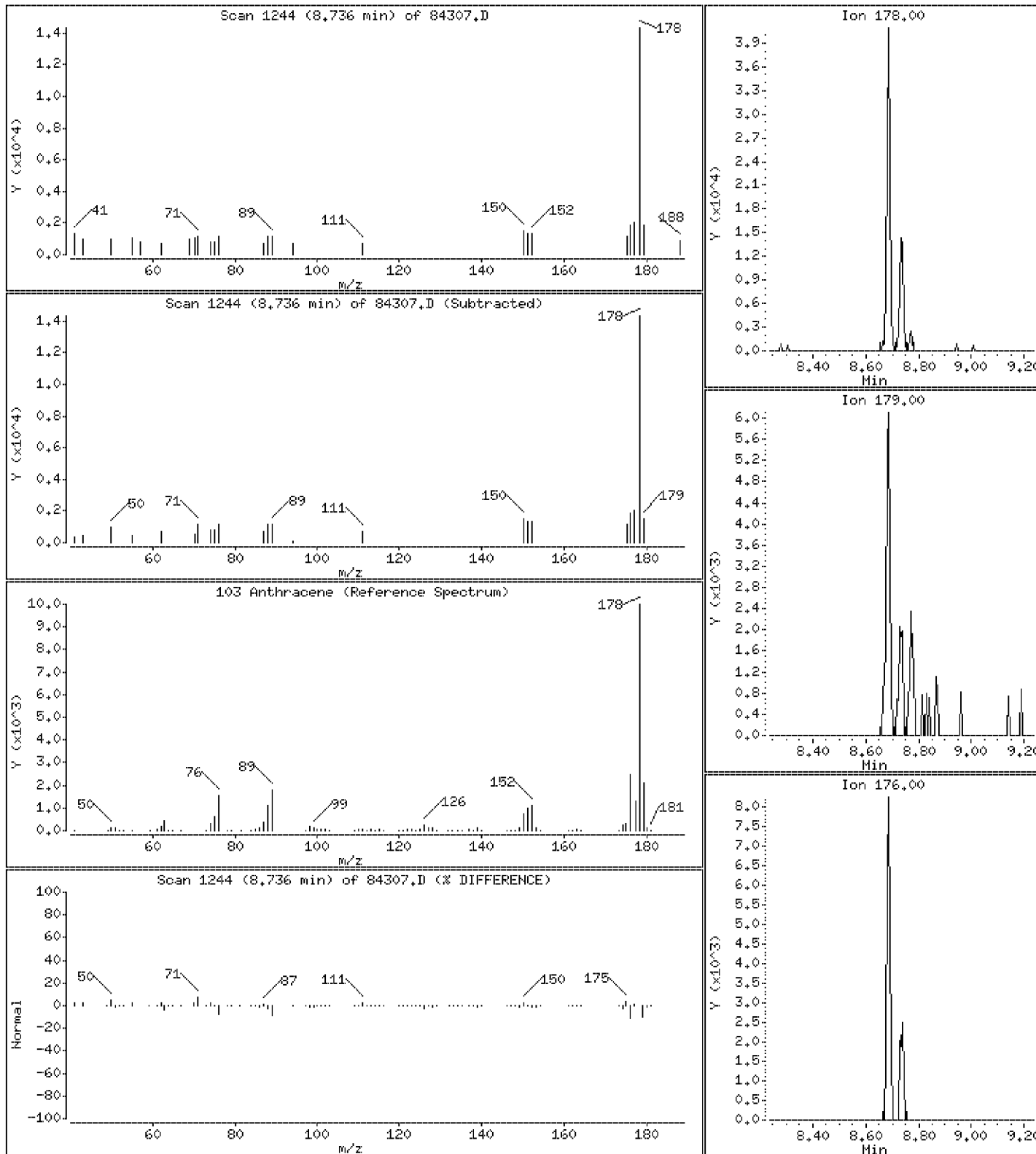
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

103 Anthracene

Concentration: 20,5 ug/kg



Date : 04-MAY-2012 15:21

Client ID: EPAFMC-SD-11

Instrument: smsd03.i

Sample Info: SW350584307

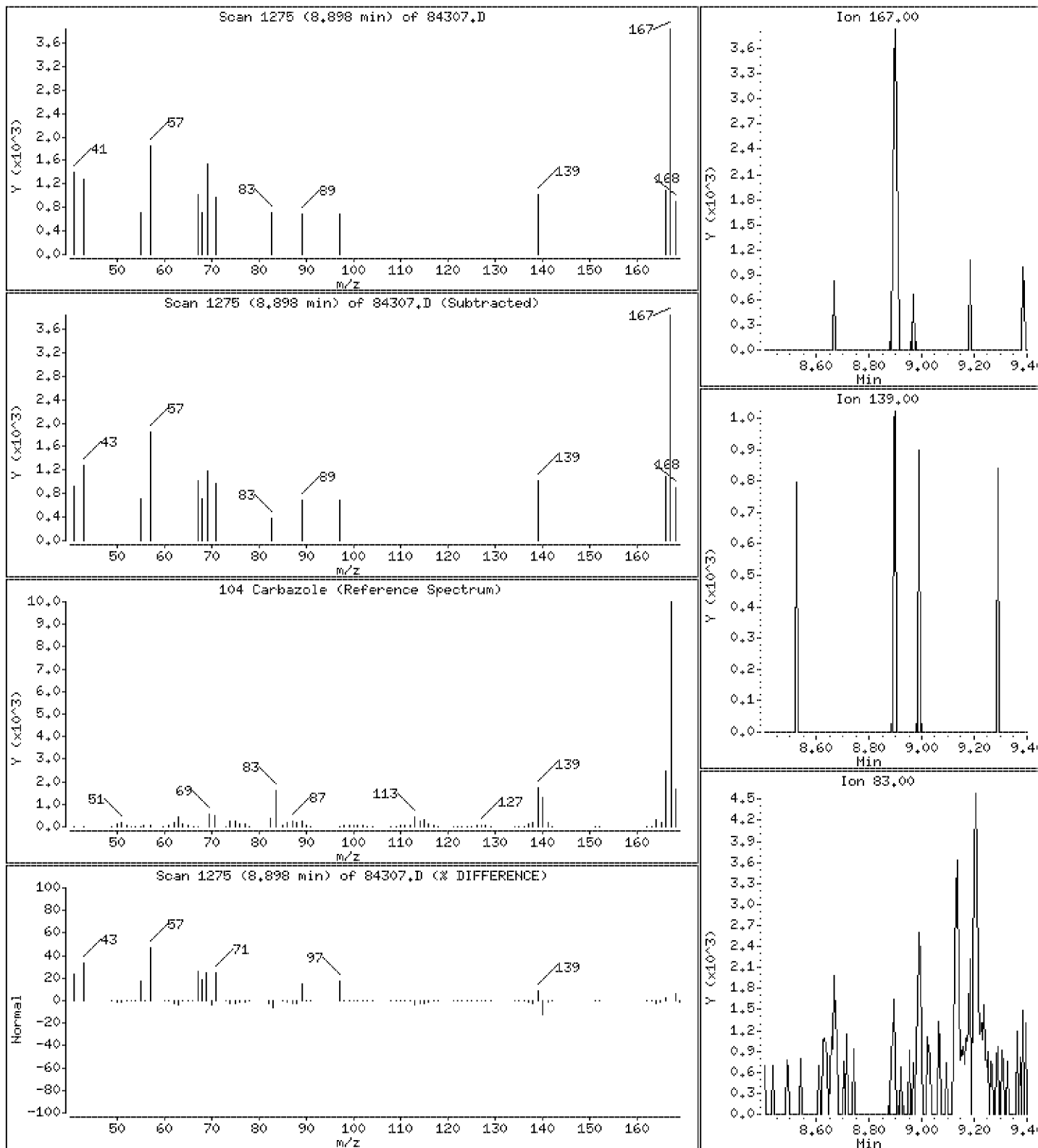
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

104 Carbazole

Concentration: 7.0 ug/kg



Date : 04-MAY-2012 15:21

Client ID: EPAFMC-SD-11

Instrument: smsd03.i

Sample Info: SW350584307

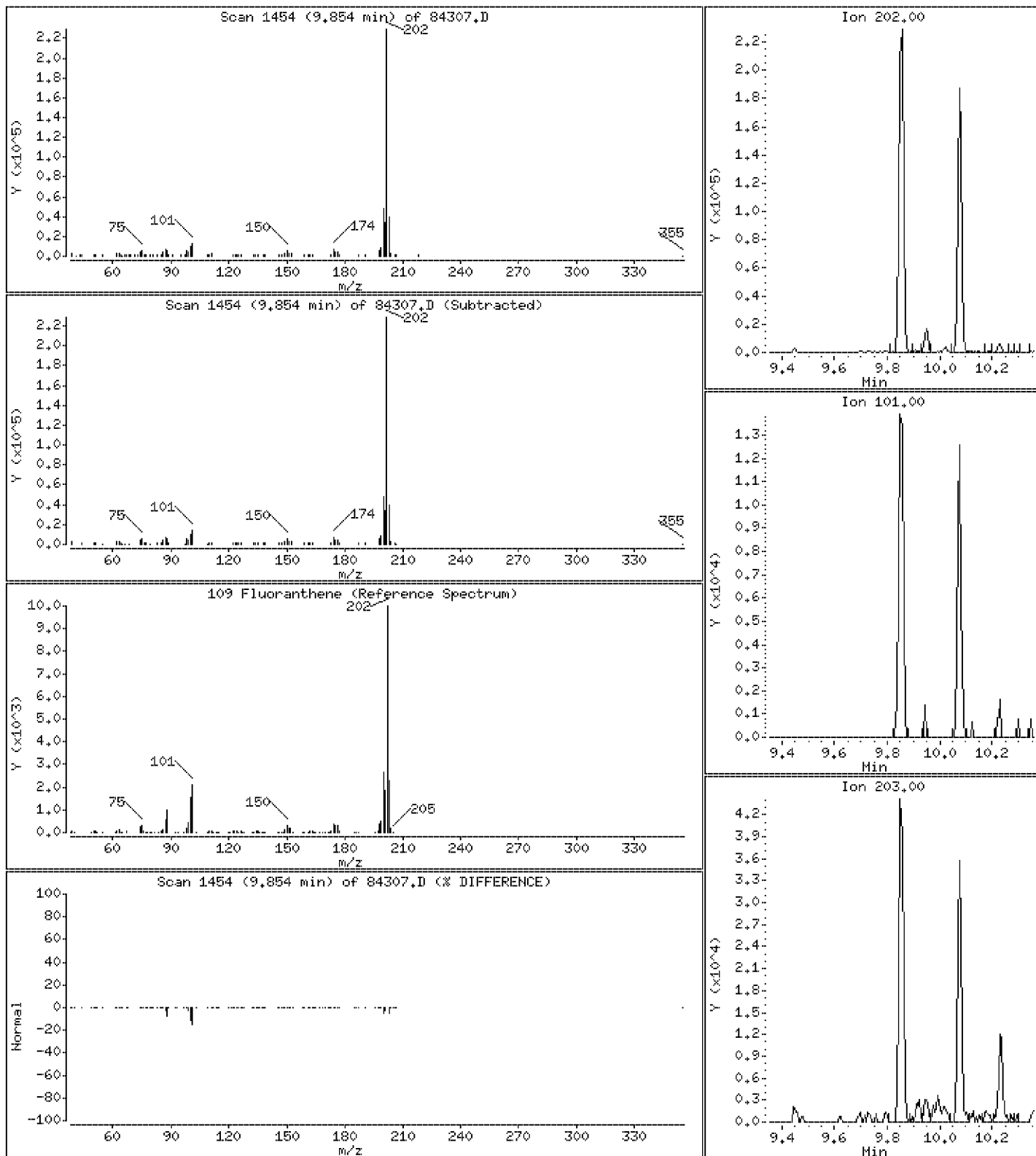
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

109 Fluoranthene

Concentration: 275 ug/kg



Date : 04-MAY-2012 15:21

Client ID: EPAFMC-SD-11

Instrument: smsd03.i

Sample Info: SW350584307

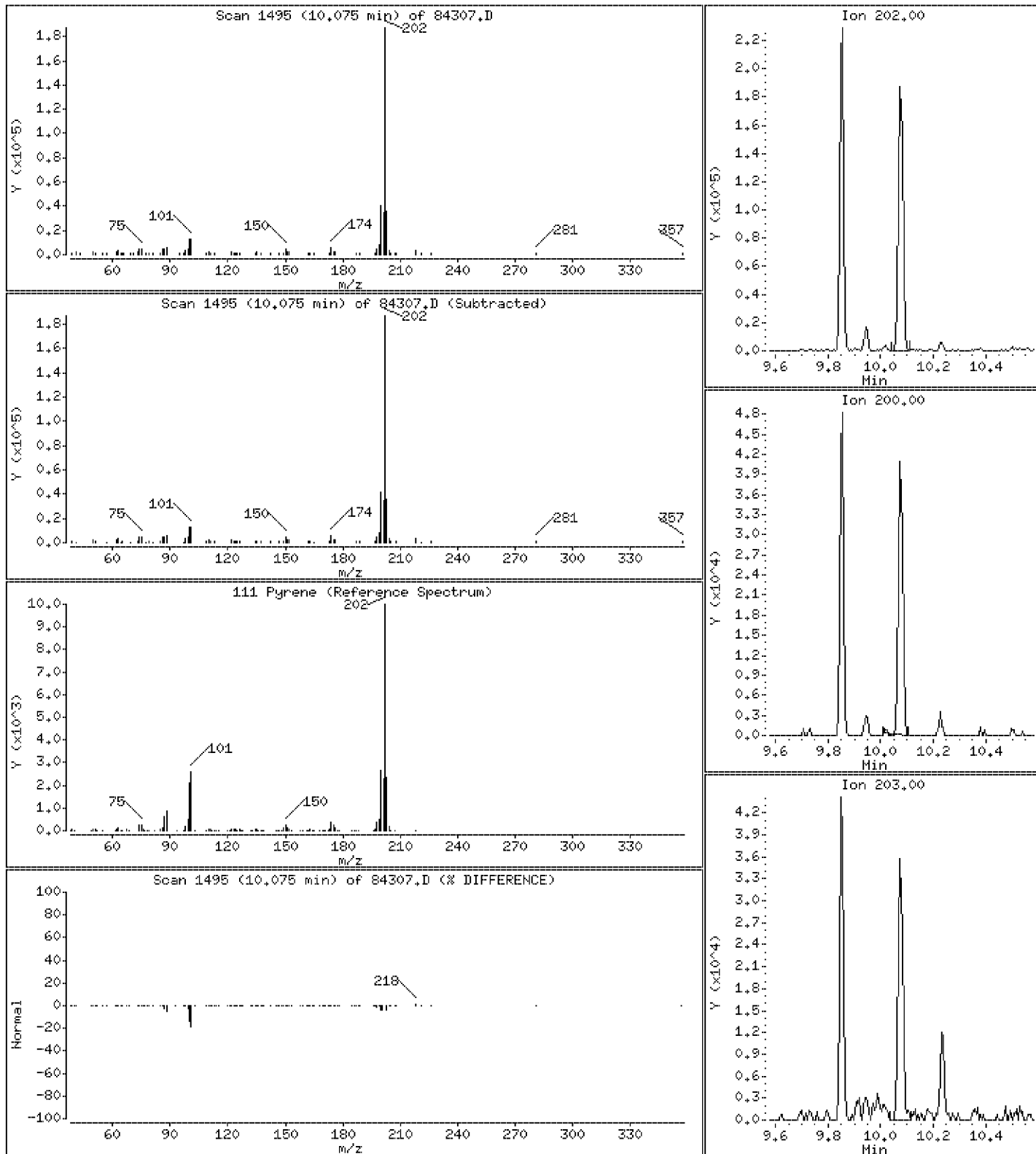
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

111 Pyrene

Concentration: 265 ug/kg



Date : 04-MAY-2012 15:21

Client ID: EPAFMC-SD-11

Instrument: smsd03.i

Sample Info: SW350584307

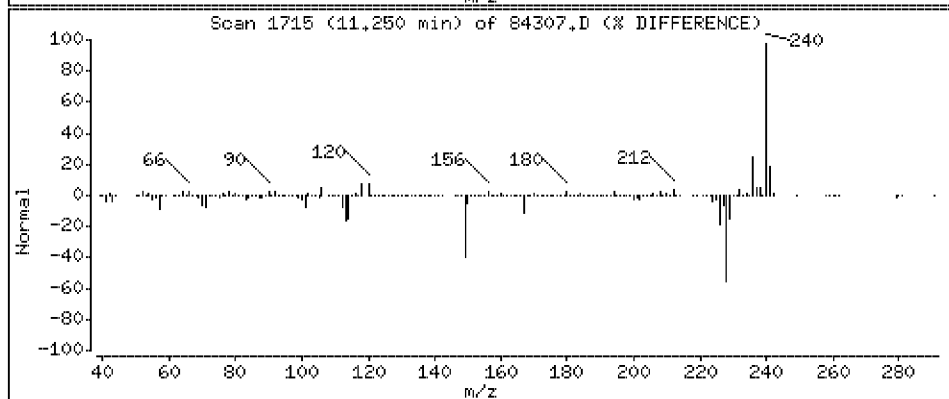
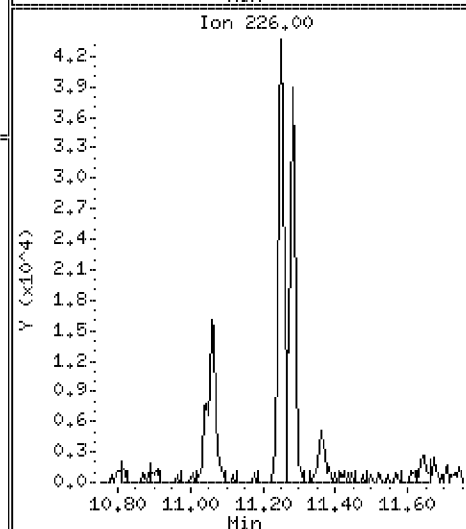
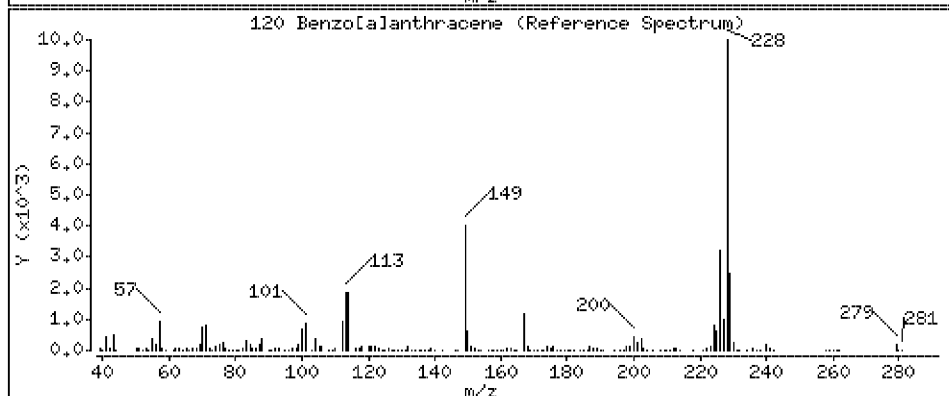
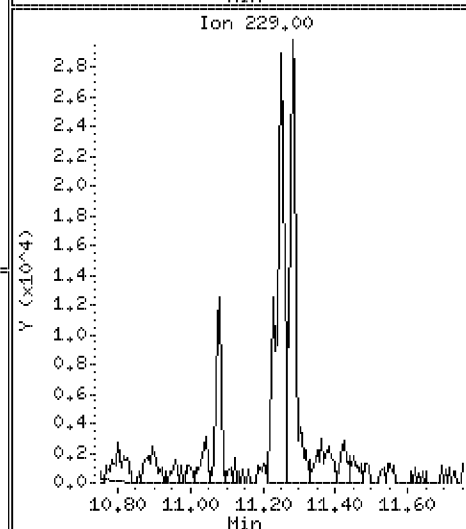
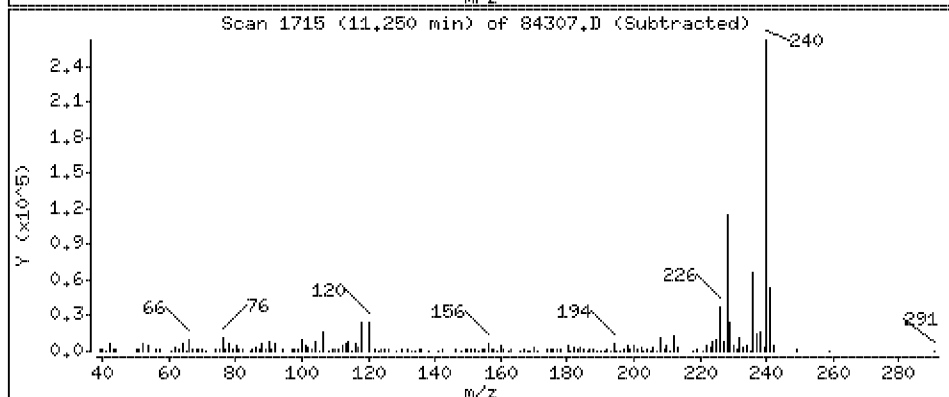
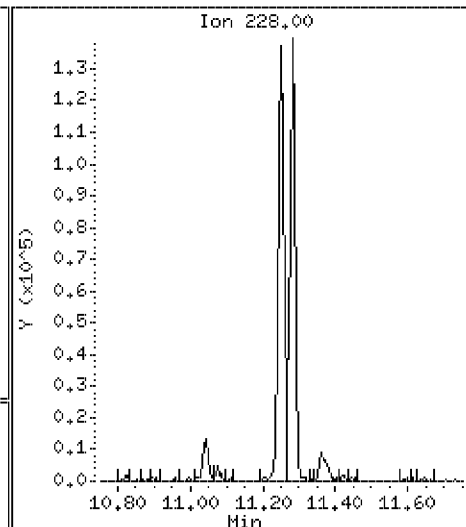
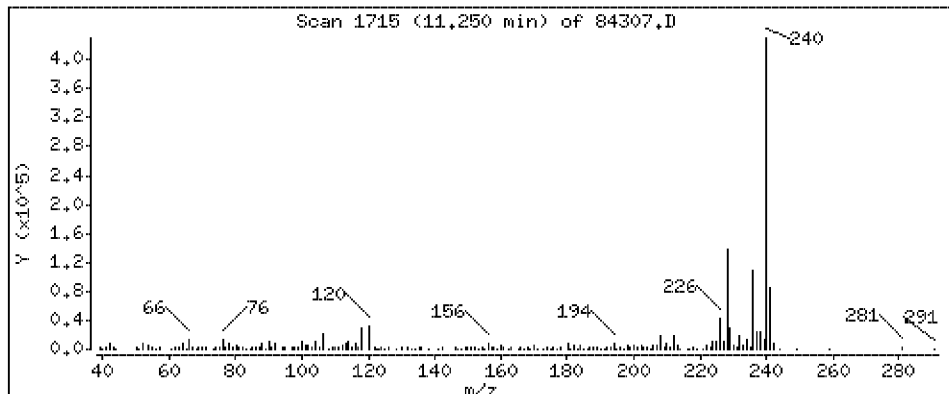
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

120 Benzo[*a*]anthracene

Concentration: 176 ug/kg



Date : 04-MAY-2012 15:21

Client ID: EPAFMC-SD-11

Instrument: smsd03.i

Sample Info: SW350584307

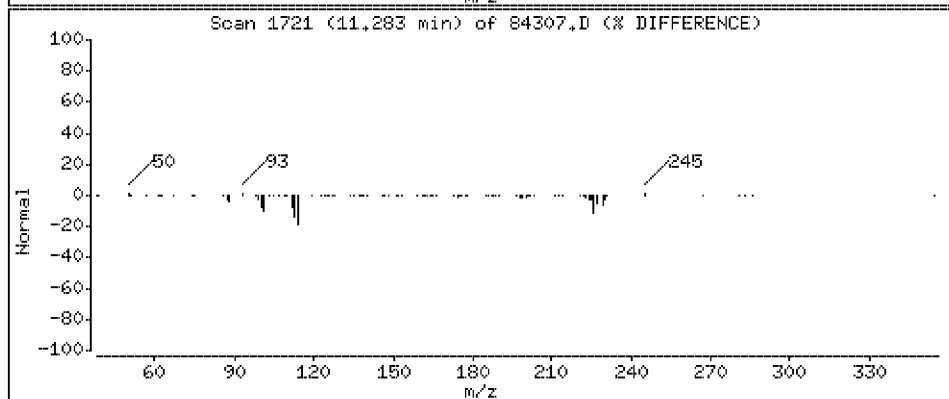
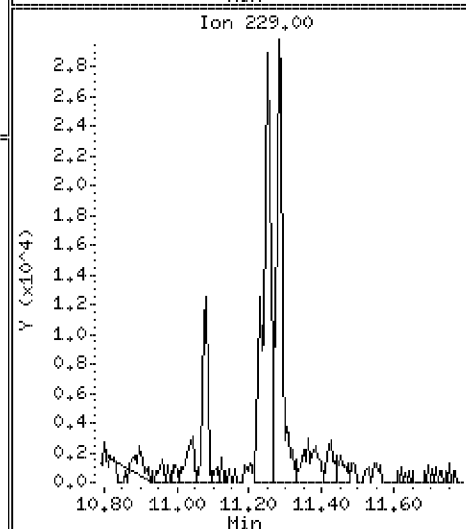
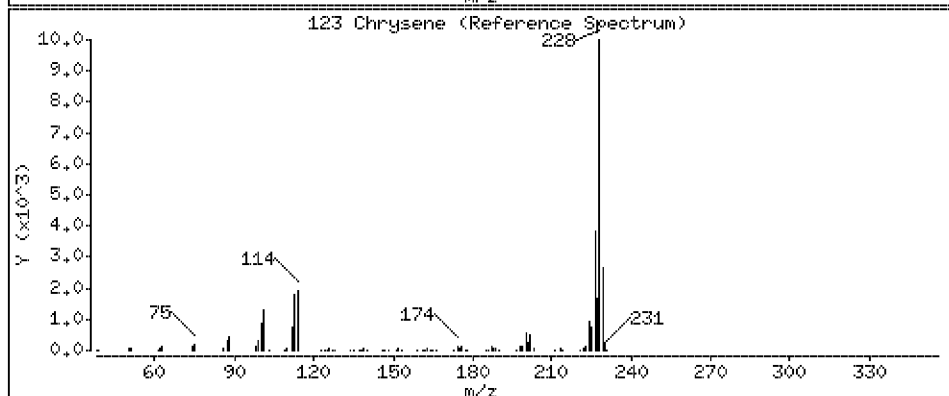
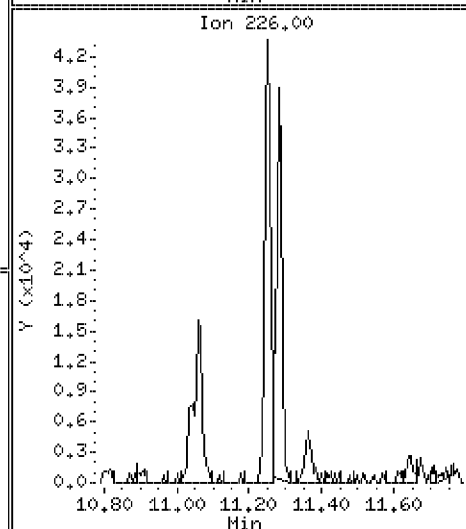
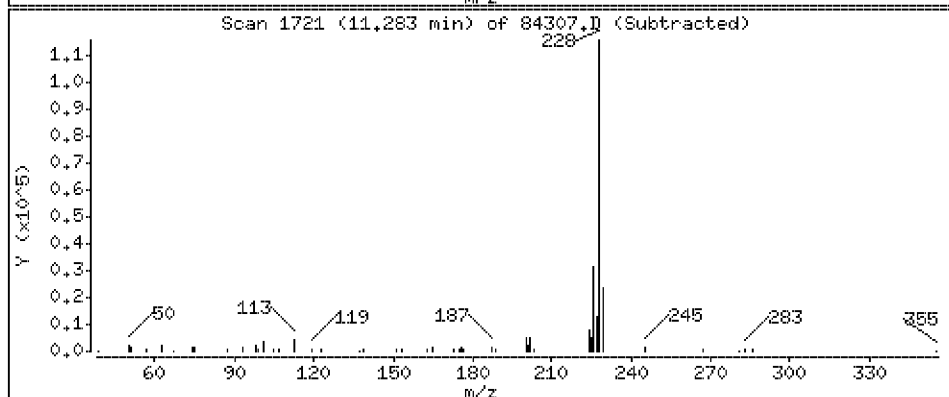
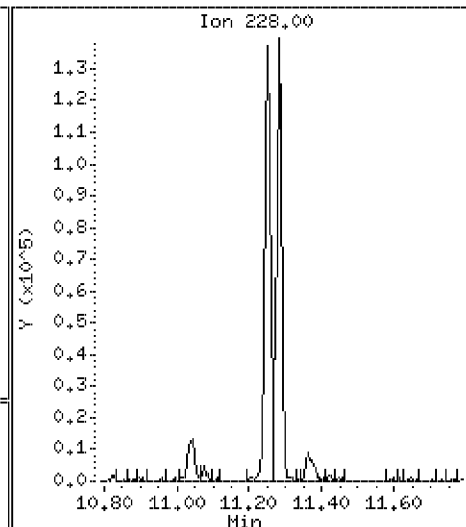
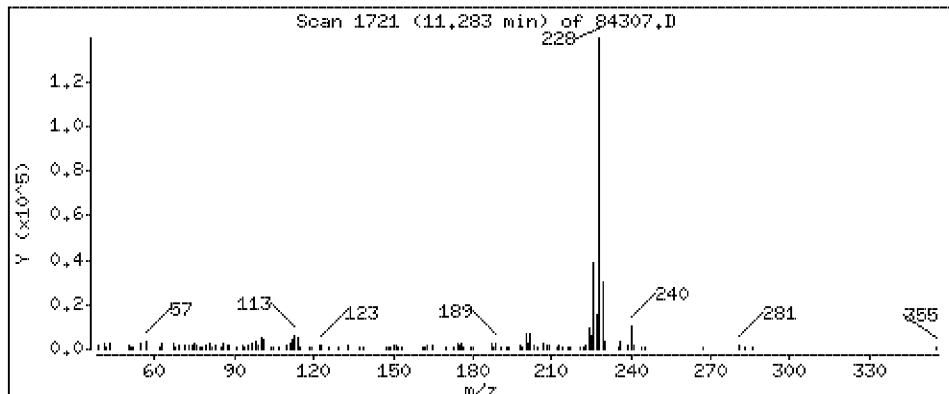
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

123 Chrysene

Concentration: 183 ug/kg



Date : 04-MAY-2012 15:21

Client ID: EPAFMC-SD-11

Instrument: smsd03.i

Sample Info: SW350584307

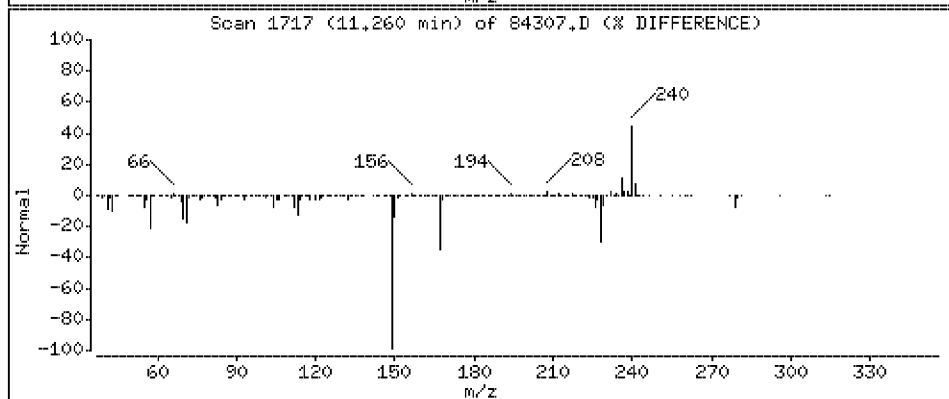
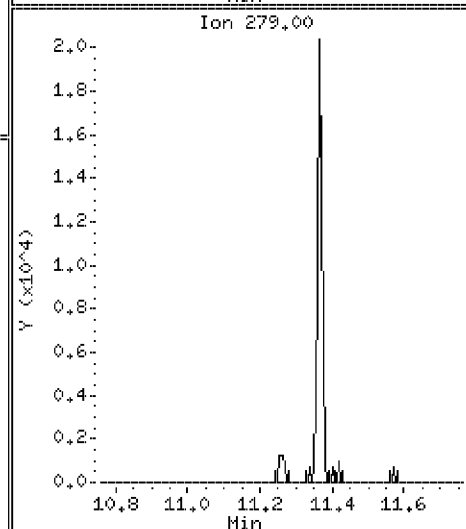
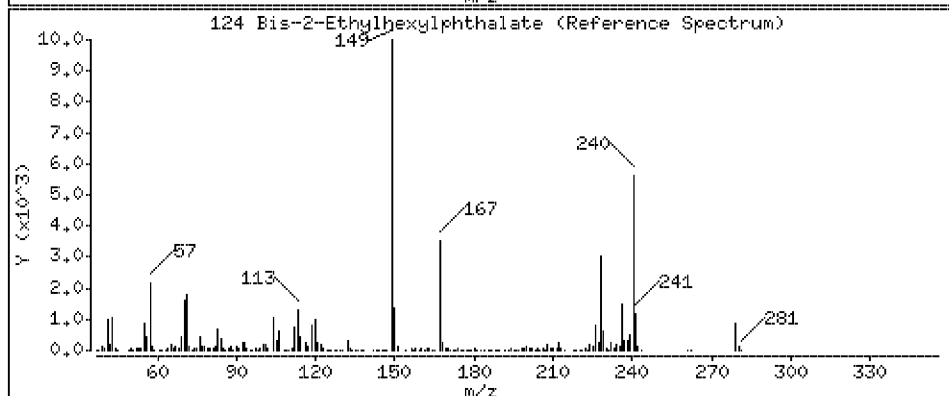
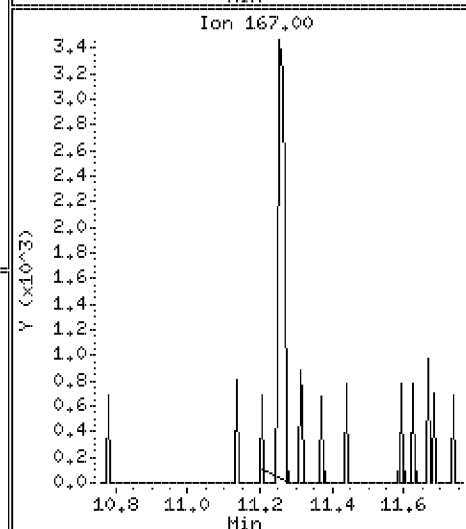
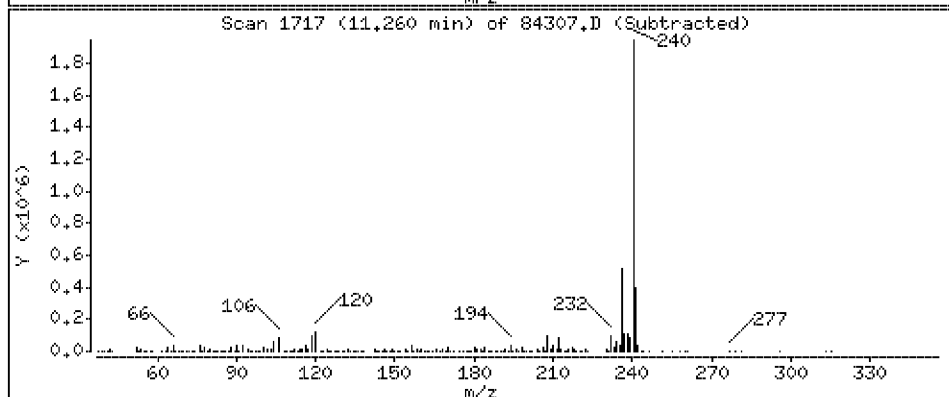
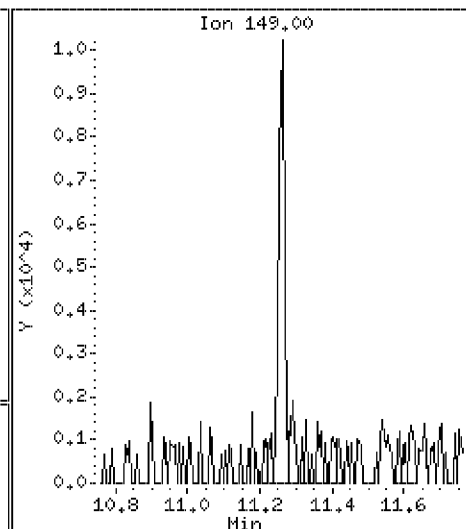
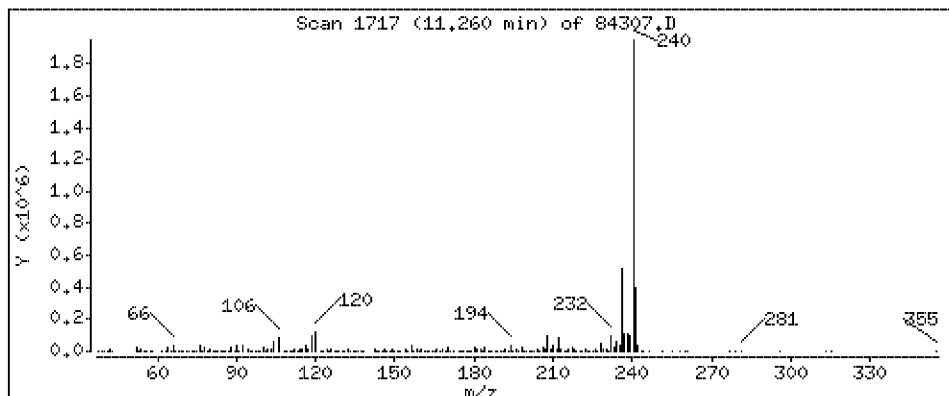
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

124 Bis-2-Ethylhexylphthalate

Concentration: 17.2 ug/kg



Date : 04-MAY-2012 15:21

Client ID: EPAFMC-SD-11

Instrument: smsd03.i

Sample Info: SW350584307

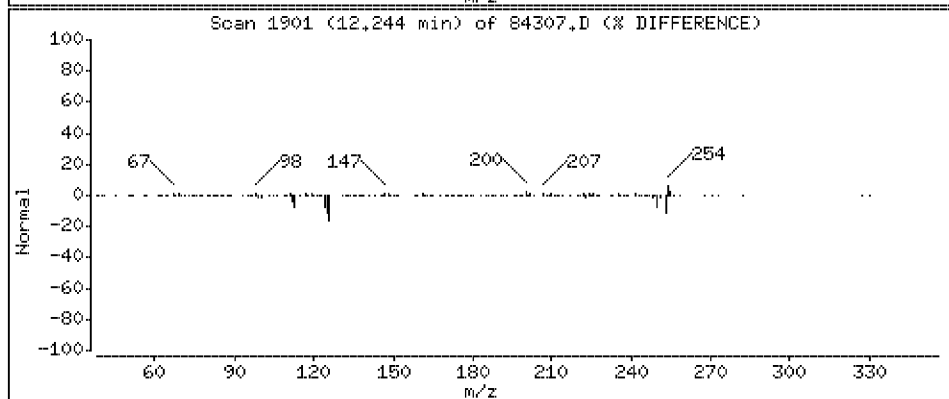
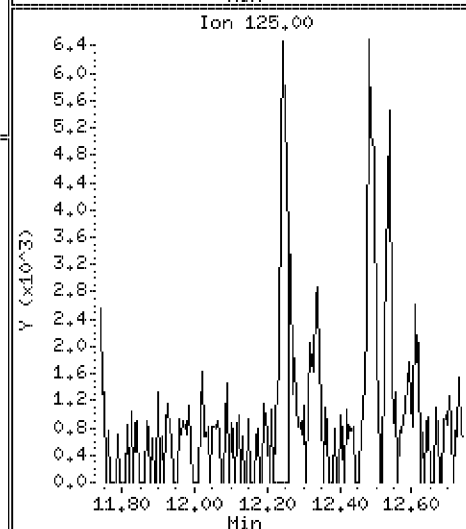
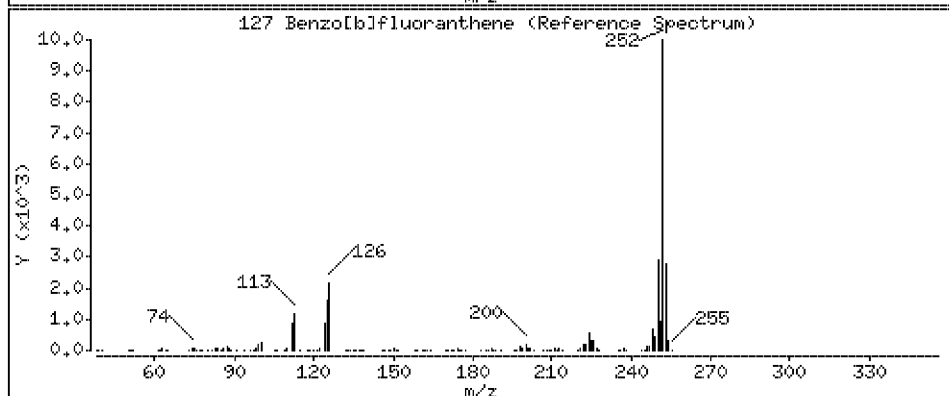
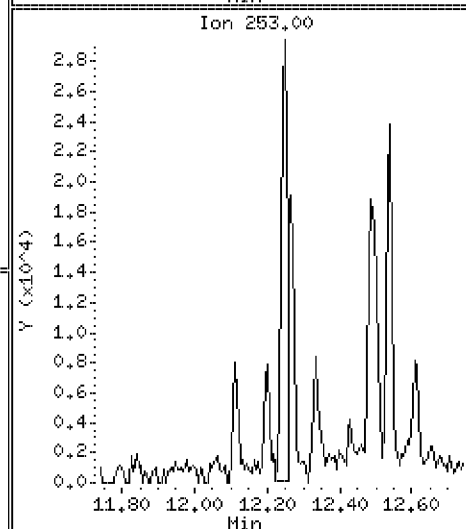
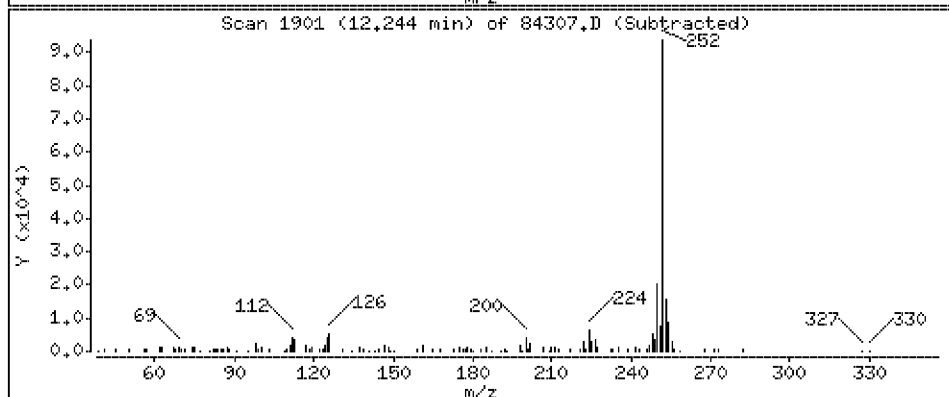
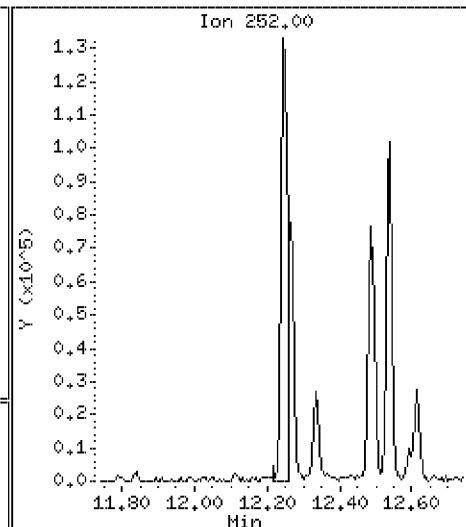
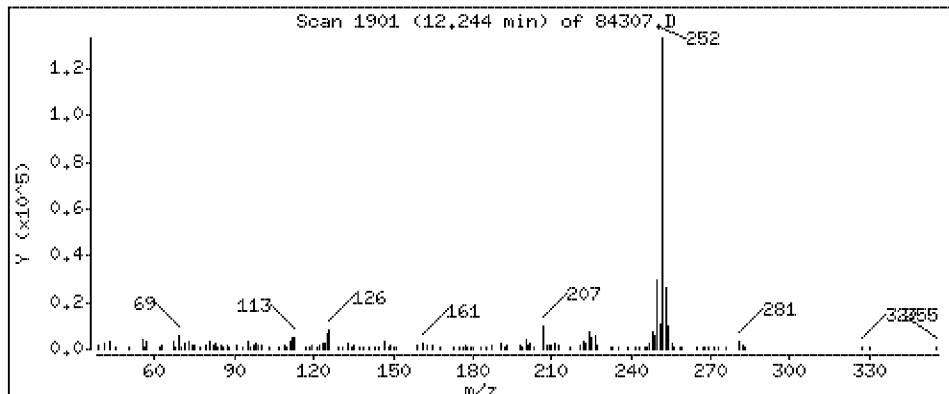
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

127 Benzo[b]fluoranthene

Concentration: 186 ug/kg



Date : 04-MAY-2012 15:21

Client ID: EPAFMC-SD-11

Instrument: smsd03.i

Sample Info: SW350584307

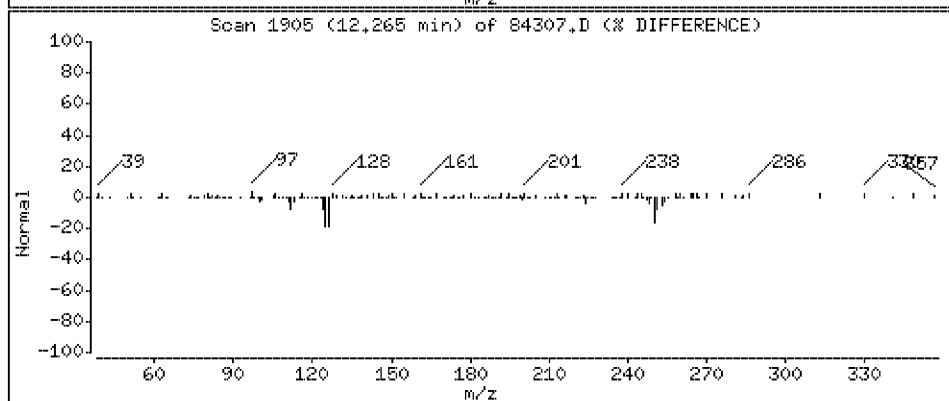
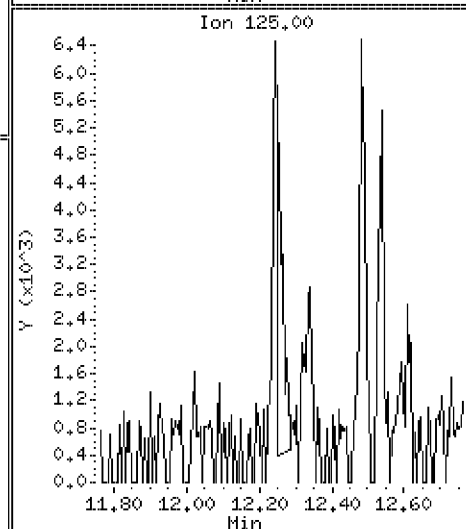
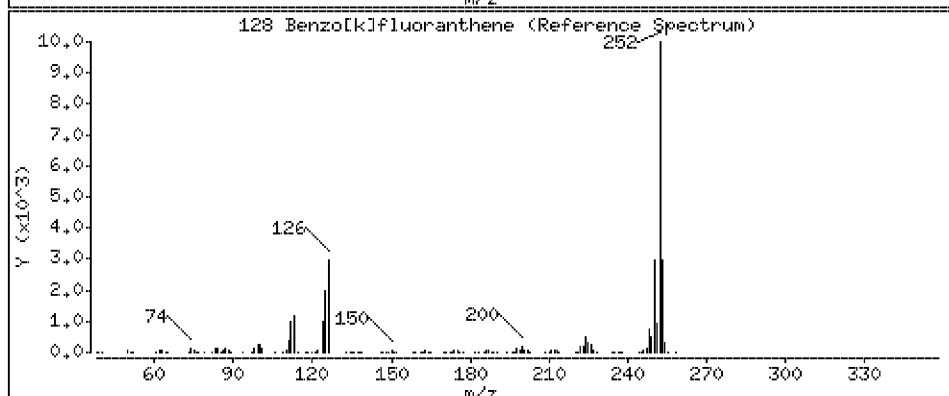
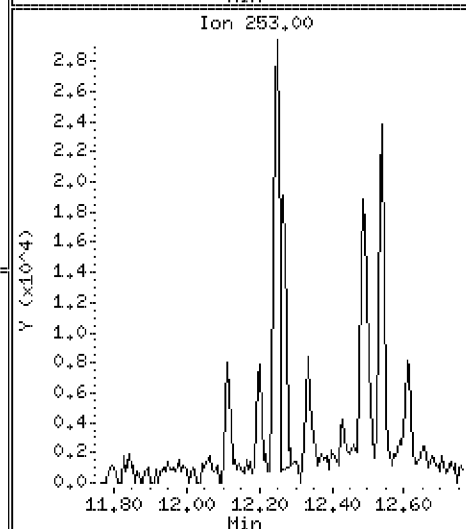
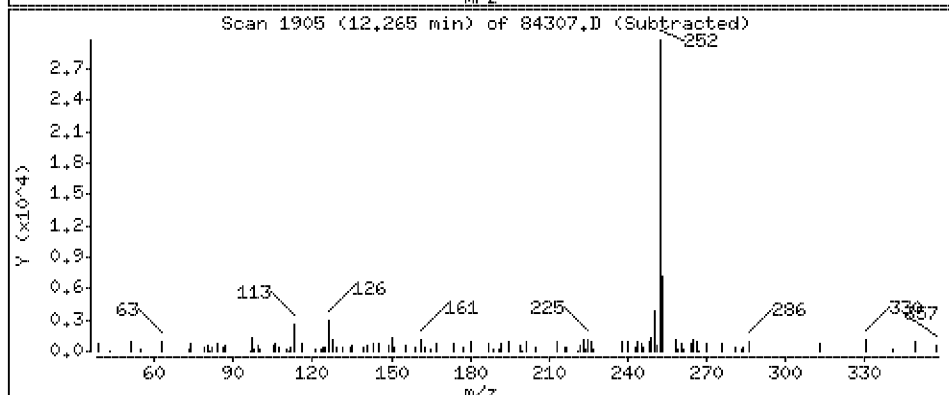
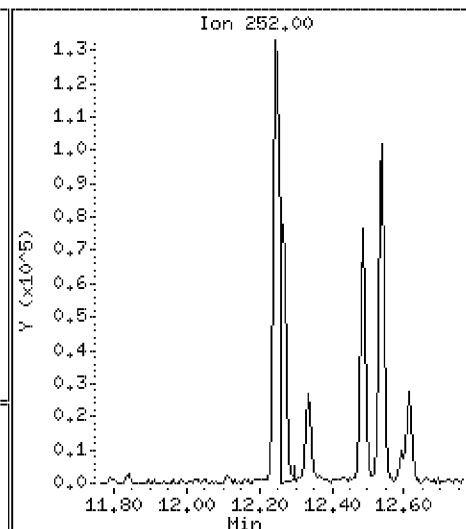
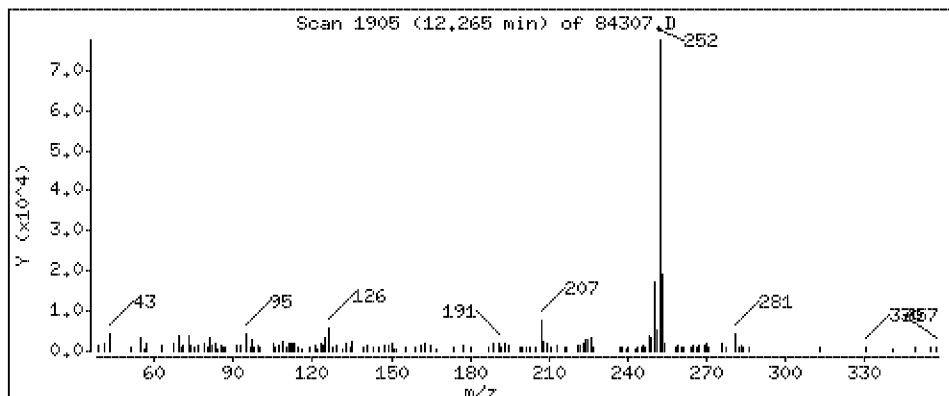
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

128 Benzo[k]fluoranthene

Concentration: 91.8 ug/kg



Date : 04-MAY-2012 15:21

Client ID: EPAFMC-SD-11

Instrument: smsd03.i

Sample Info: SW350584307

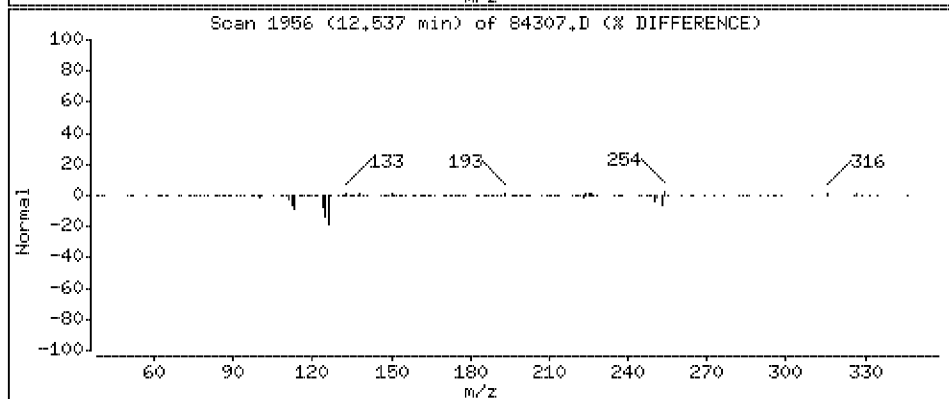
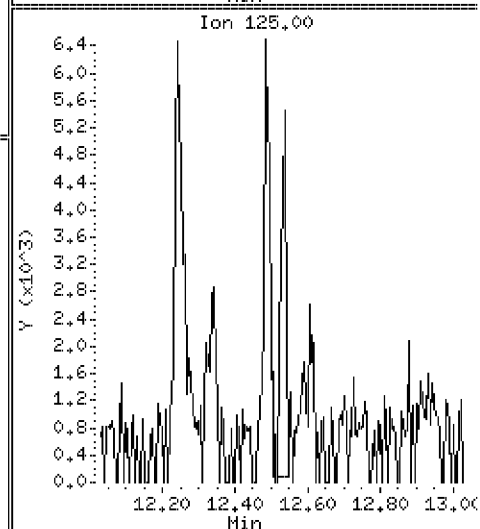
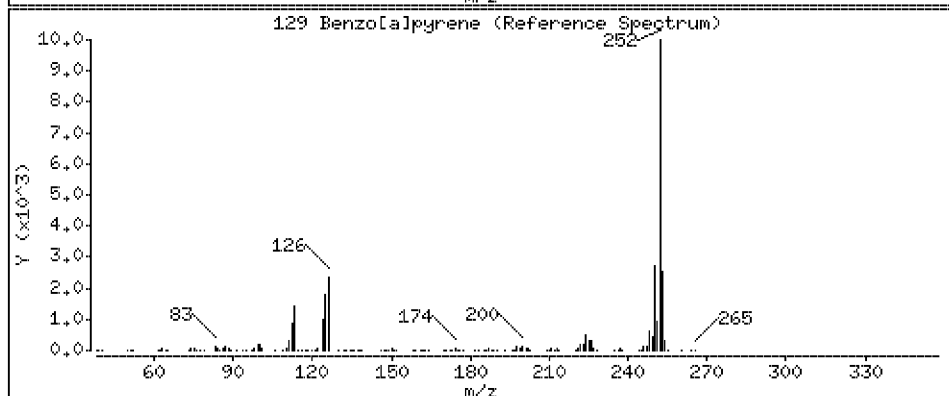
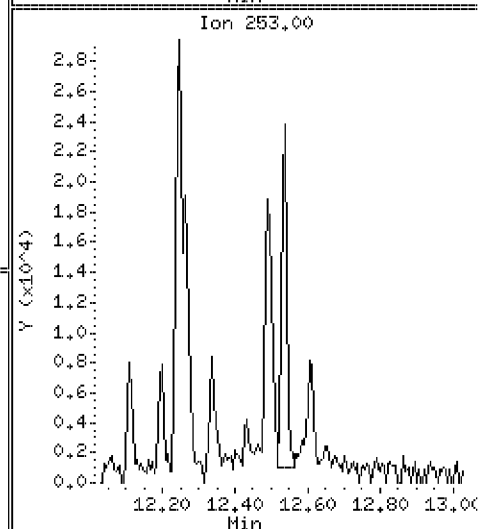
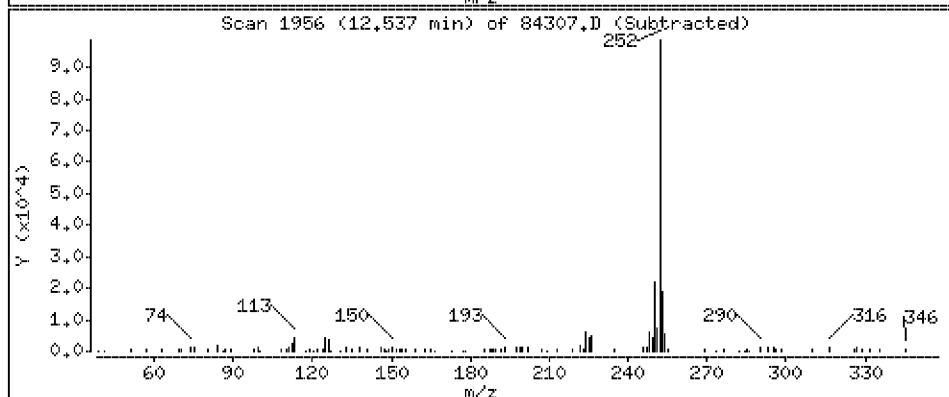
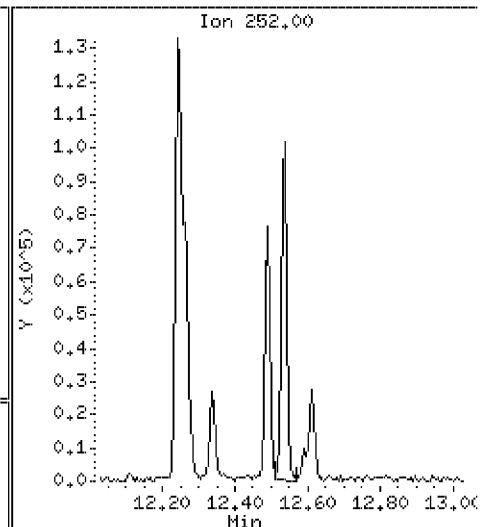
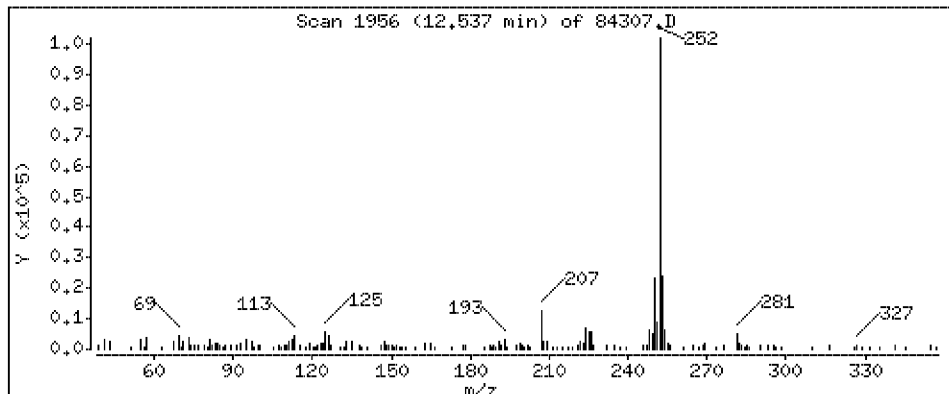
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

129 Benzo[a]pyrene

Concentration: 118 ug/kg



Date : 04-MAY-2012 15:21

Client ID: EPAFMC-SD-11

Instrument: smsd03.i

Sample Info: SW350584307

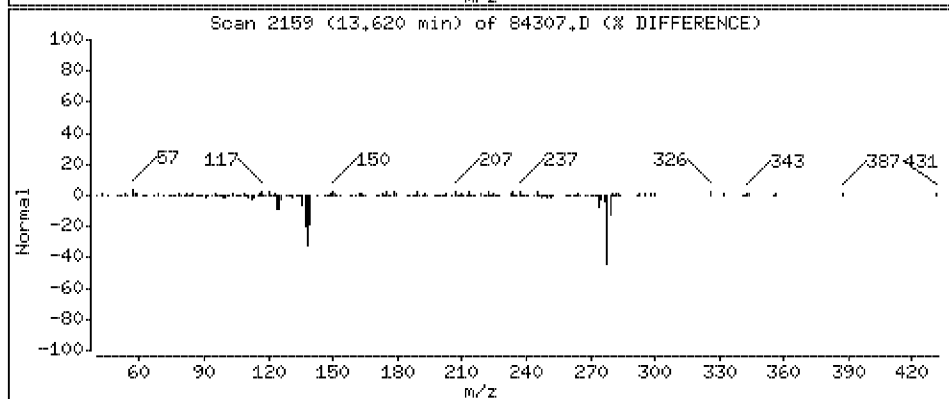
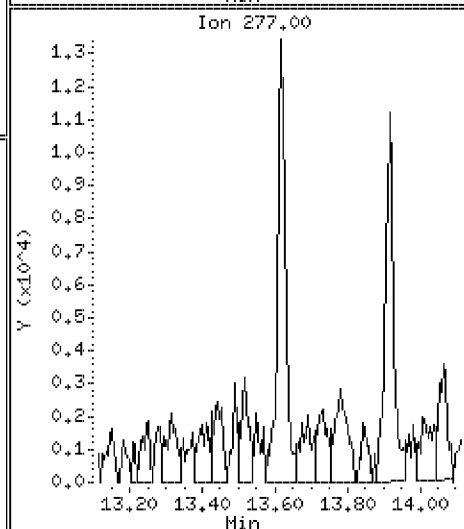
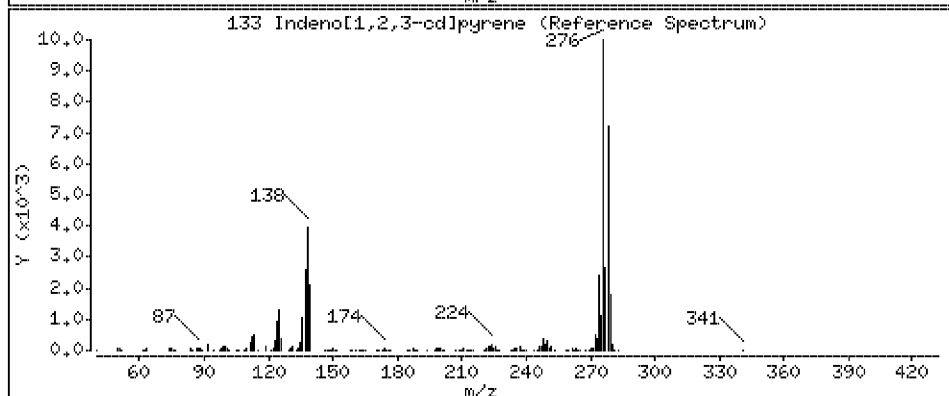
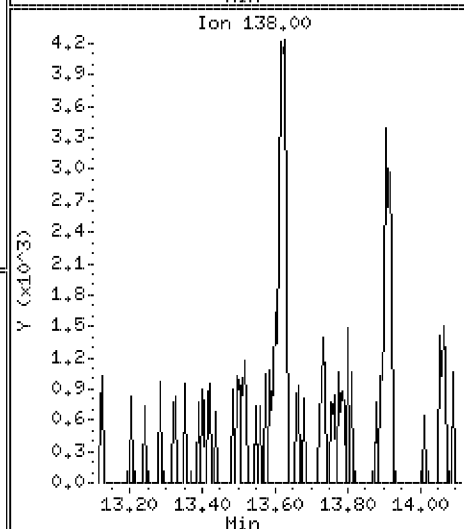
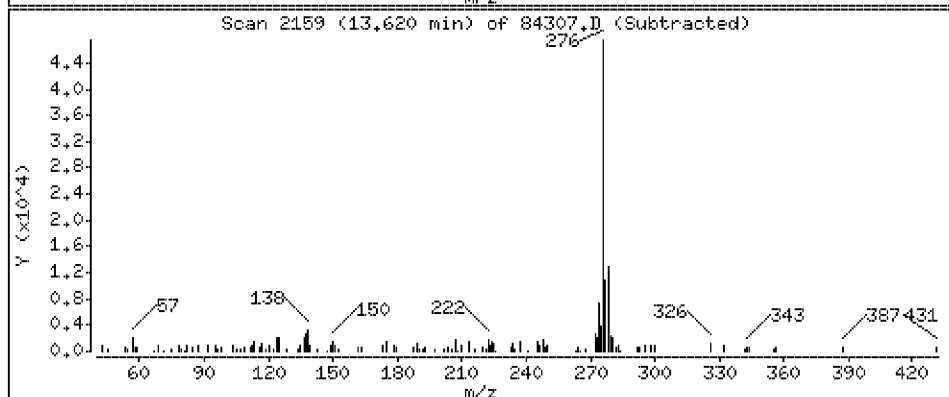
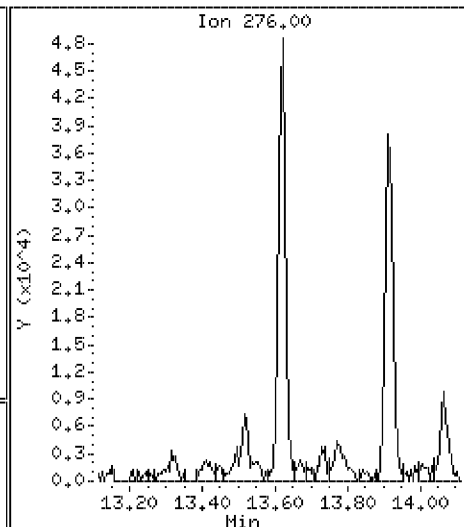
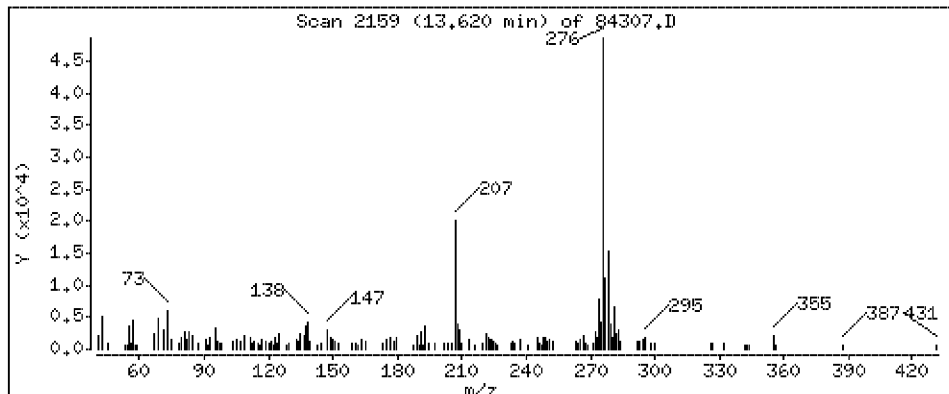
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

133 Indeno[1,2,3-cd]pyrene

Concentration: 60.6 ug/kg



Date : 04-MAY-2012 15:21

Client ID: EPAFMC-SD-11

Instrument: smsd03.i

Sample Info: SW350584307

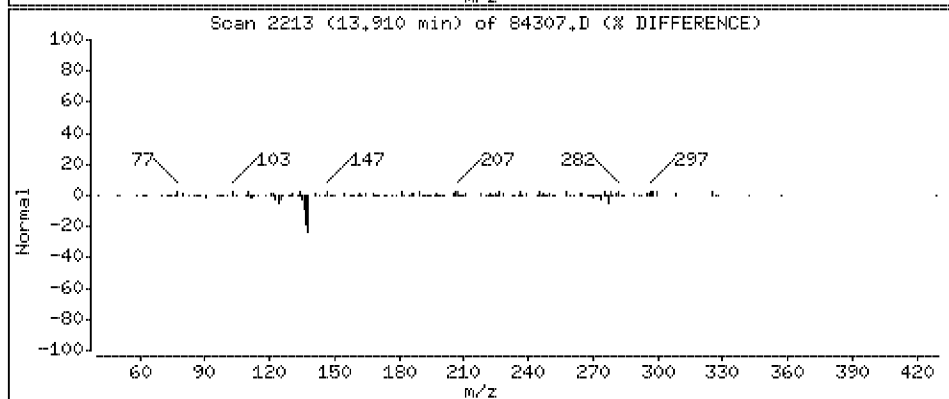
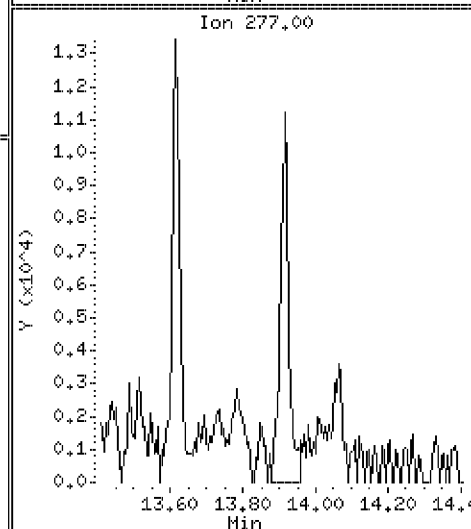
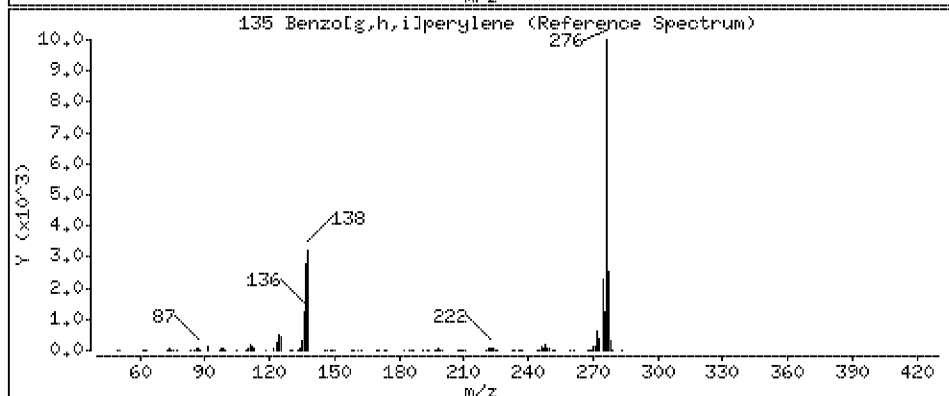
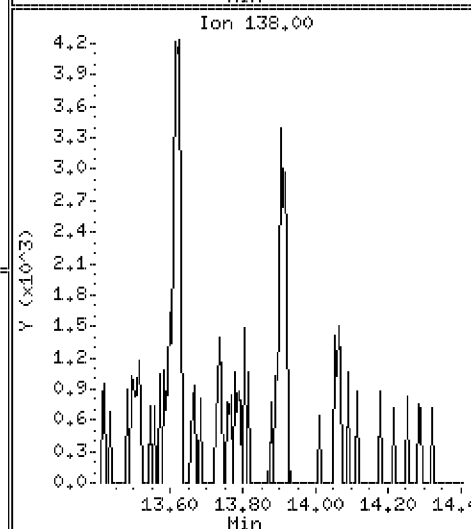
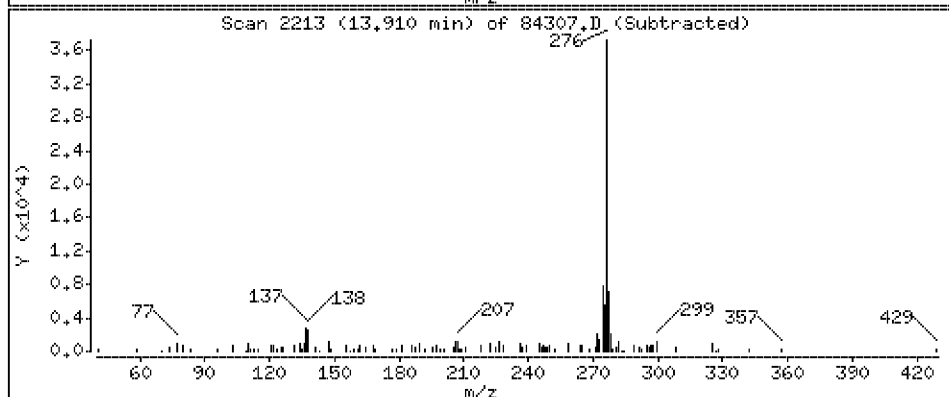
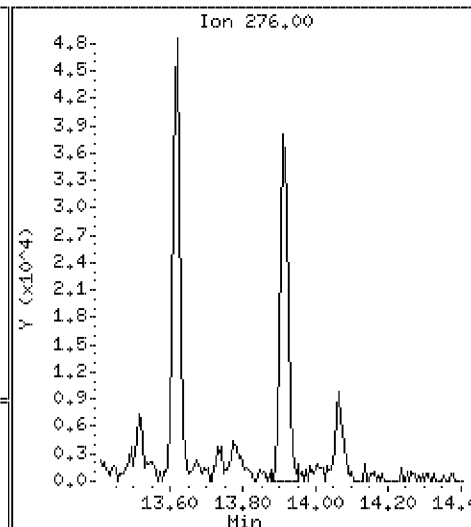
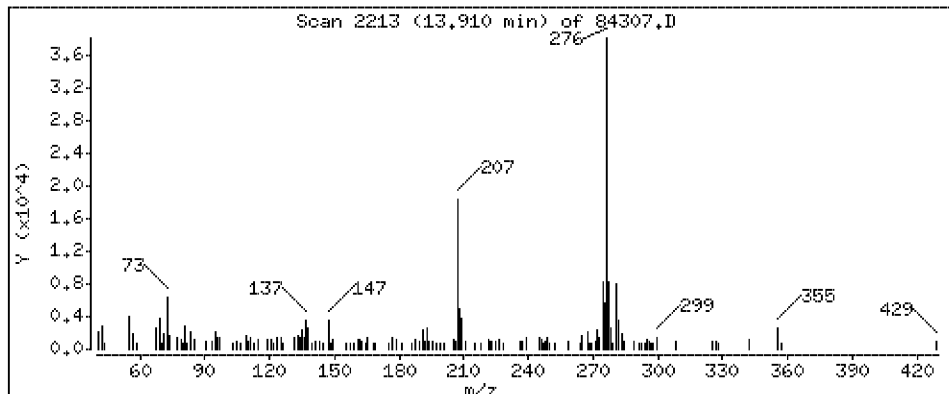
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

135 Benzo[g,h,i]perylene

Concentration: 70.2 ug/kg



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3050412.b\84308.D
 Lab Smp Id: 350584308 Client Smp ID: EPAFMC-SD-12
 Inj Date : 04-MAY-2012 15:45 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : SW350584308
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3050412.b\8270bcs.m
 Meth Date : 07-May-2012 17:35 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 18:17 Cal File: AP9CAL4.D
 Als bottle: 15
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.520	Weight of sample extracted (g)
M	15.600	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.354	4.352 (1.000)		152	286624	40.0000		80.00- 120.00	100.00	
4.353	4.352 (1.000)		115	176463			31.12- 91.12	61.57	
4.354	4.352 (1.000)		150	436618			117.02- 177.02	152.33	
* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.515	5.513 (1.000)		136	956365	40.0000		80.00- 120.00	100.00	
5.514	5.513 (1.000)		68	50876			0.00- 35.11	5.32	
* 70 Acenaphthene-d10 CAS #: 15067-26-2									
7.209	7.208 (1.000)		164	685235	40.0000		80.00- 120.00	100.00	
7.209	7.208 (1.000)		162	665006			66.36- 126.36	97.05	
7.209	7.208 (1.000)		160	305667			14.03- 74.03	44.61	
* 100 Phenanthrene-d10 CAS #: 1517-22-2									
8.664	8.665 (1.000)		188	1385919	40.0000		80.00- 120.00	100.00	
8.663	8.665 (1.000)		94	84492			0.00- 36.25	6.10	
8.663	8.665 (1.000)		80	103249			0.00- 37.67	7.45	
* 121 Chrysene-d12 CAS #: 1719-03-5									
11.262	11.259 (1.000)		240	1896326	40.0000		80.00- 120.00	100.00	

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO	
					ON-COL (ug/ml)	FINAL (ug/kg)			
* 121 Chrysene-d12 (continued)									
11.261	11.259	(1.000)	120	101259			0.00- 34.90	5.34	
11.262	11.259	(1.000)	236	506294			0.00- 56.56	26.70	

* 130 Perylene-d12					CAS #: 1520-96-3				
12.586	12.576	(1.000)	264	1830779	40.0000		80.00- 120.00	100.00	
12.586	12.576	(1.000)	260	450993			0.00- 54.67	24.63	
12.586	12.576	(1.000)	265	449613			0.00- 53.09	24.56	

Date : 04-MAY-2012 15:45

Client ID: EPAFMC-SD-12

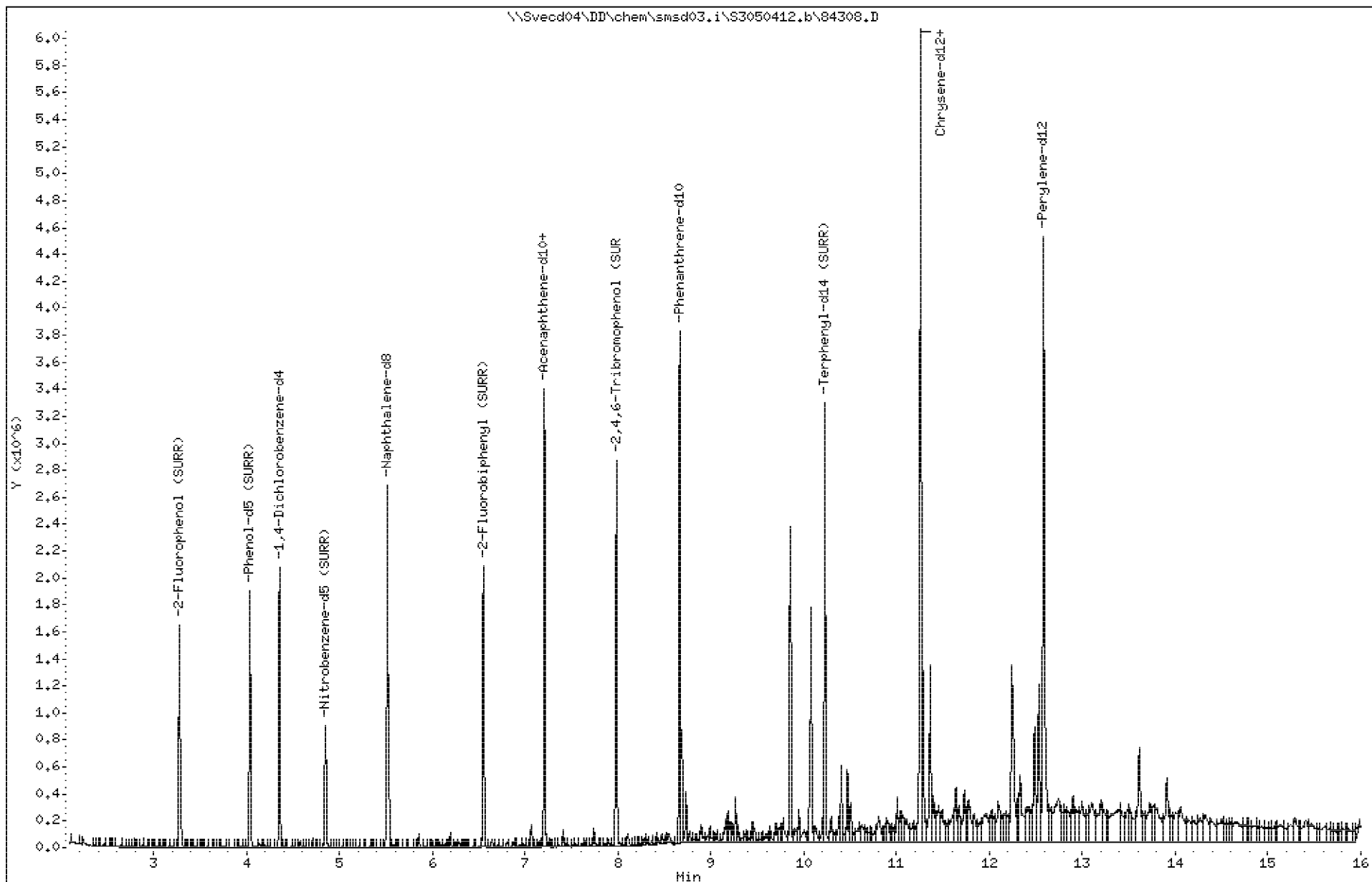
Sample Info: SN350584308

Instrument: smsd03.i

Operator: PEL

Column diameter: 0.25

Column phase: HPMS-5



Date : 04-MAY-2012 15:45

Client ID: EPAFMC-SD-12

Instrument: smsd03.i

Sample Info: SW350584308

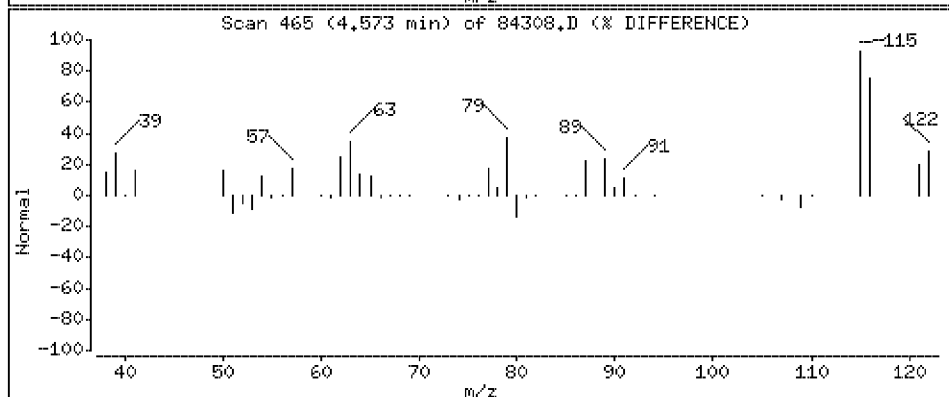
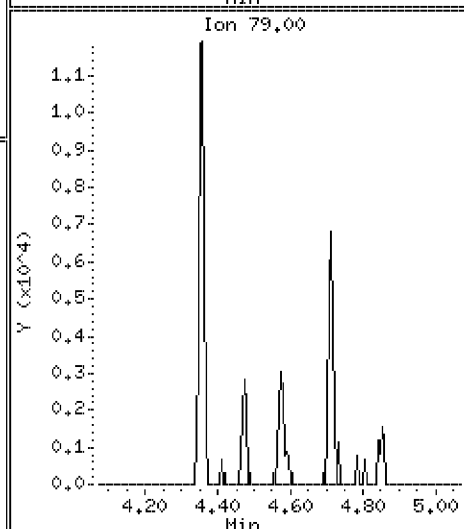
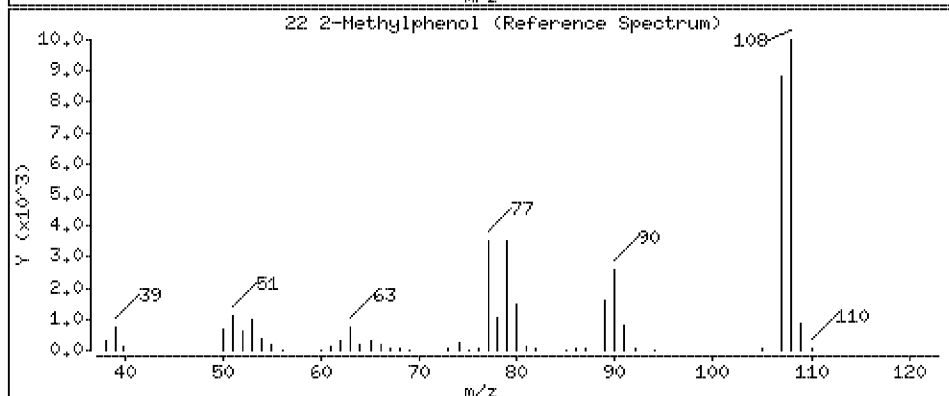
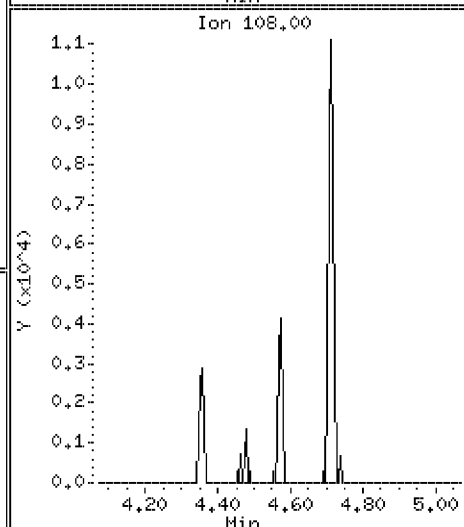
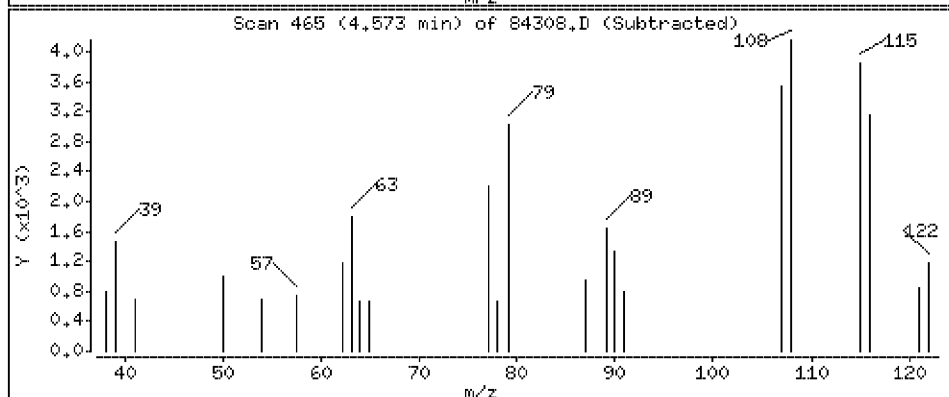
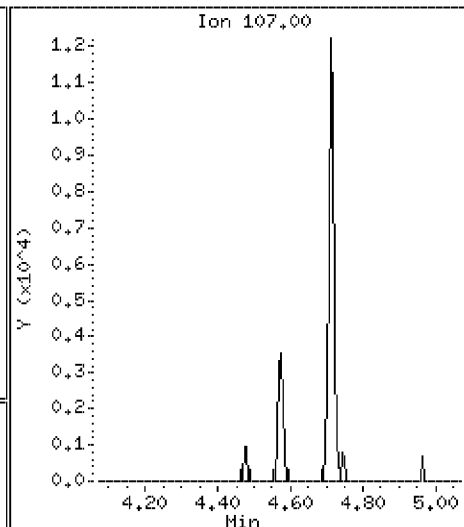
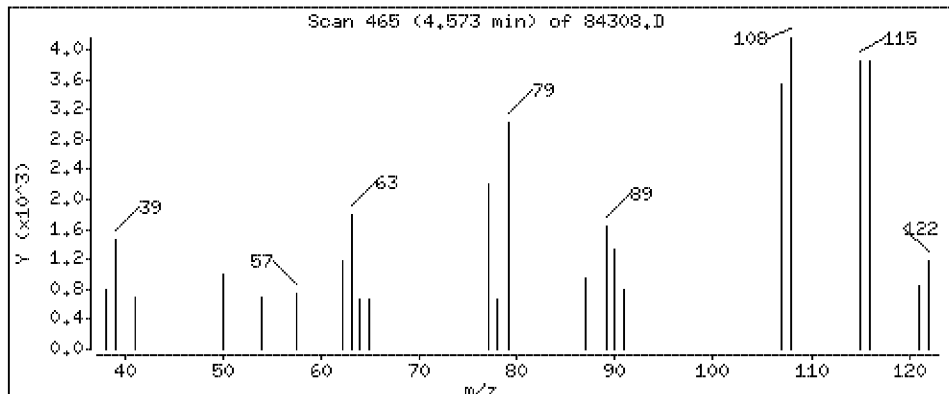
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

22 2-Methylphenol

Concentration: 21.6 ug/kg



Date : 04-MAY-2012 15:45

Client ID: EPAFMC-SD-12

Instrument: smsd03.i

Sample Info: SW350584308

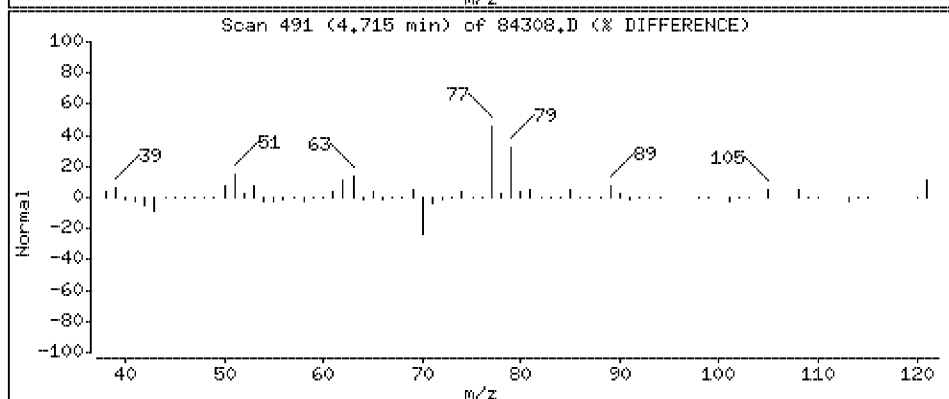
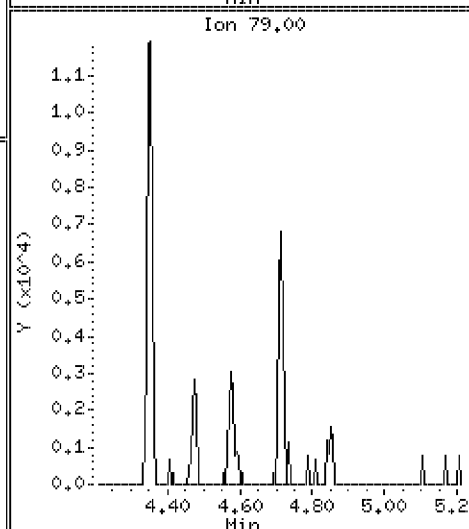
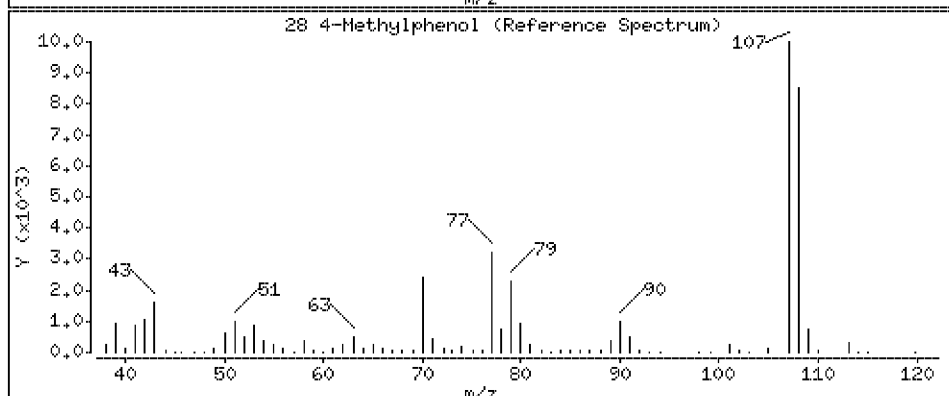
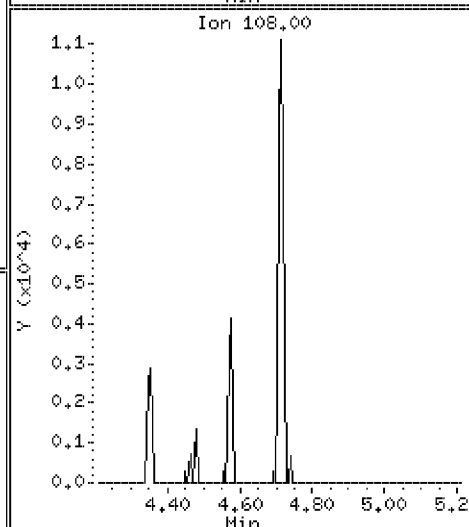
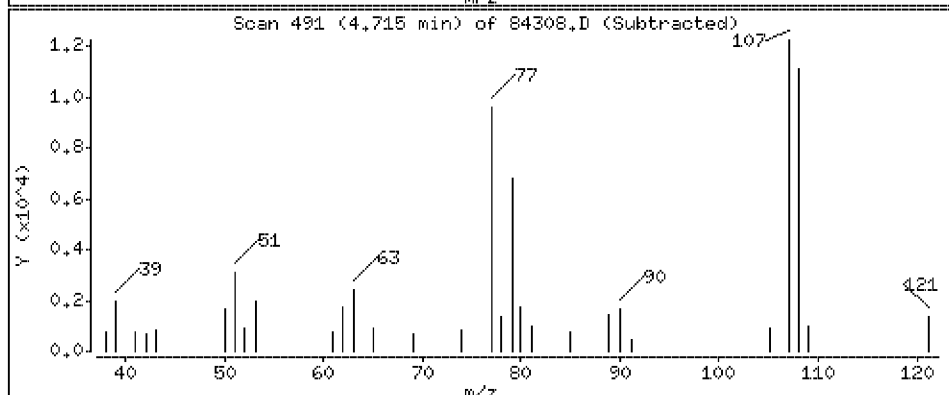
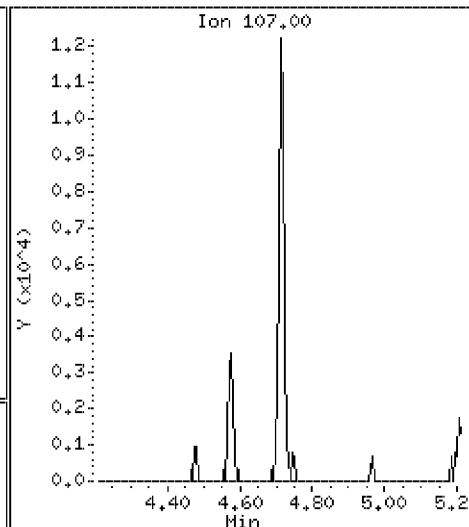
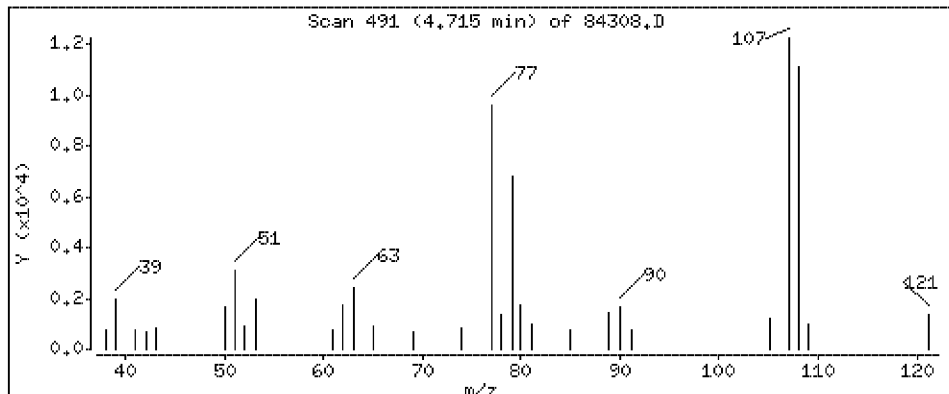
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

28 4-Methylphenol

Concentration: 53.8 ug/kg



Date : 04-MAY-2012 15:45

Client ID: EPAFMC-SD-12

Instrument: smsd03.i

Sample Info: SW350584308

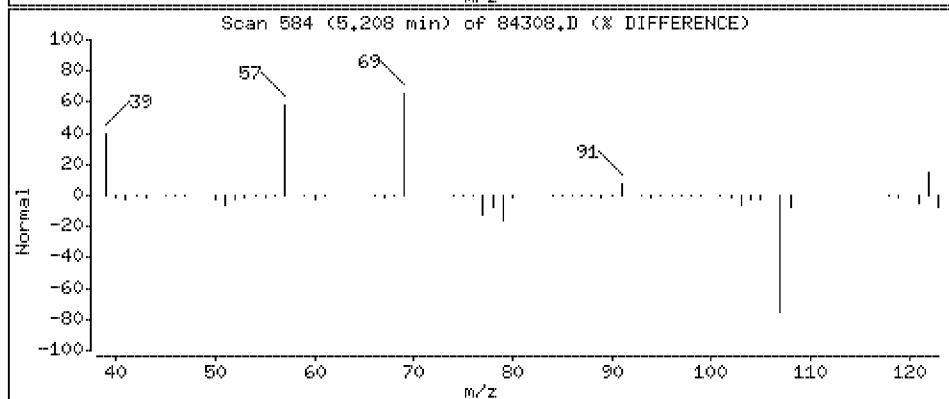
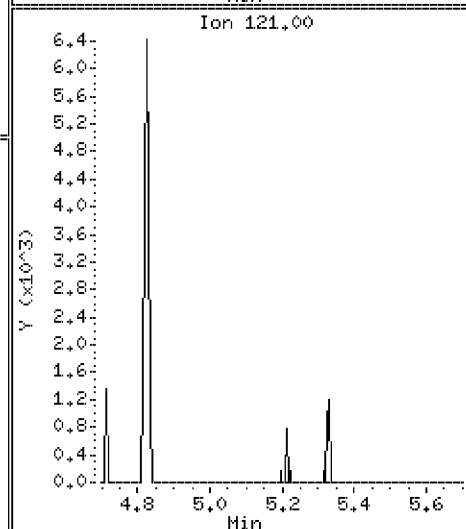
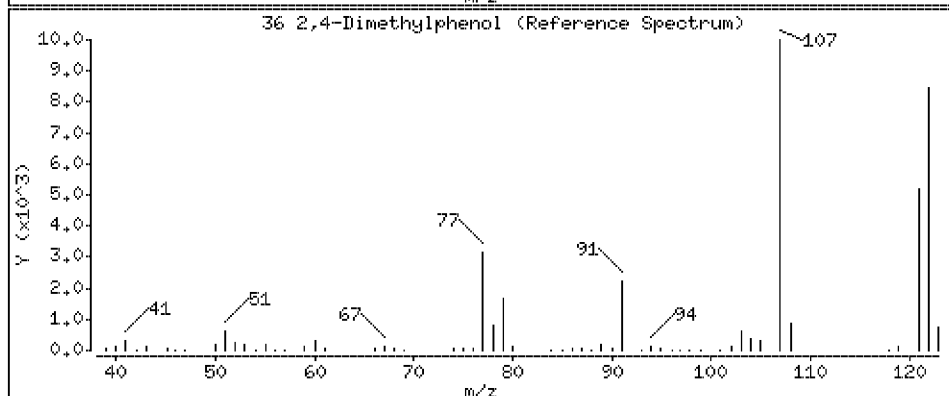
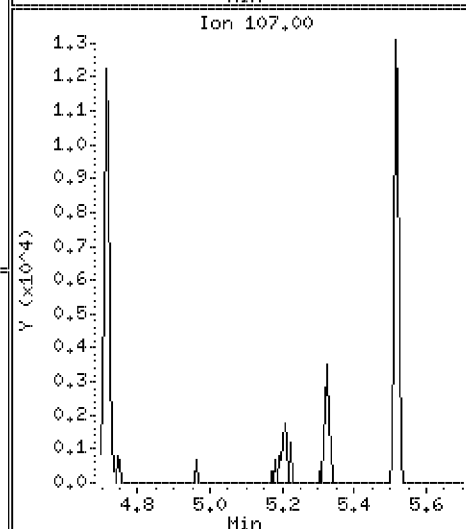
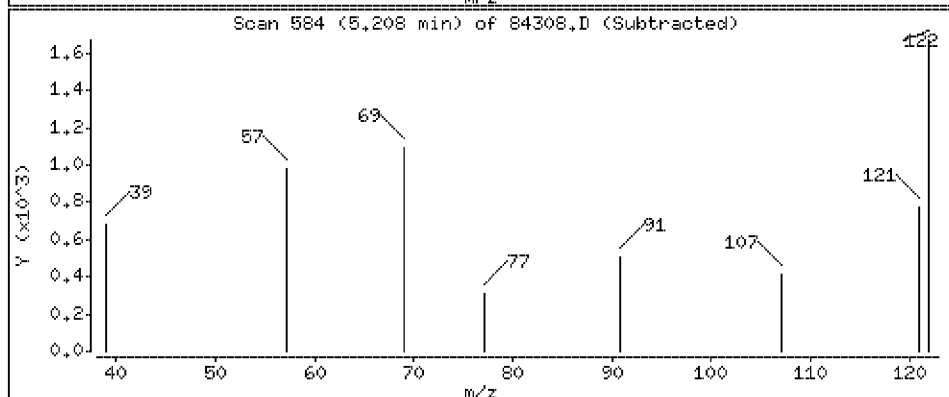
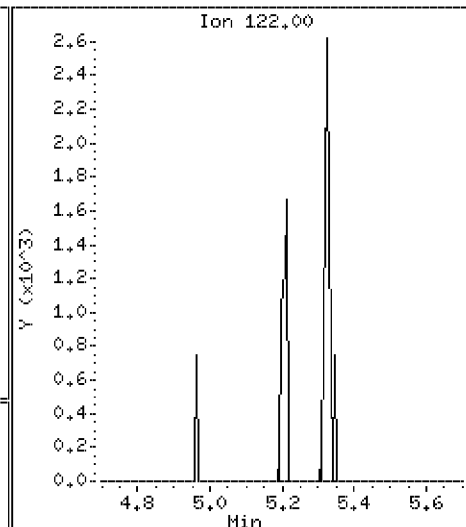
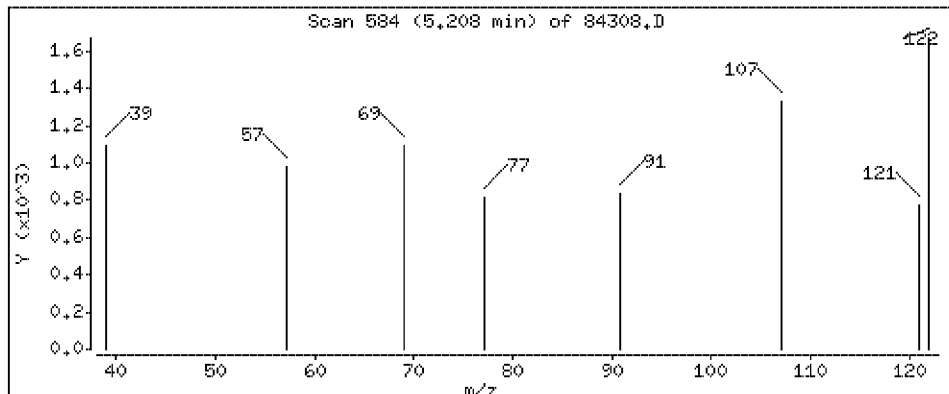
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

36 2,4-Dimethylphenol

Concentration: 8.1 ug/kg



Date : 04-MAY-2012 15:45

Client ID: EPAFMC-SD-12

Instrument: smsd03.i

Sample Info: SW350584308

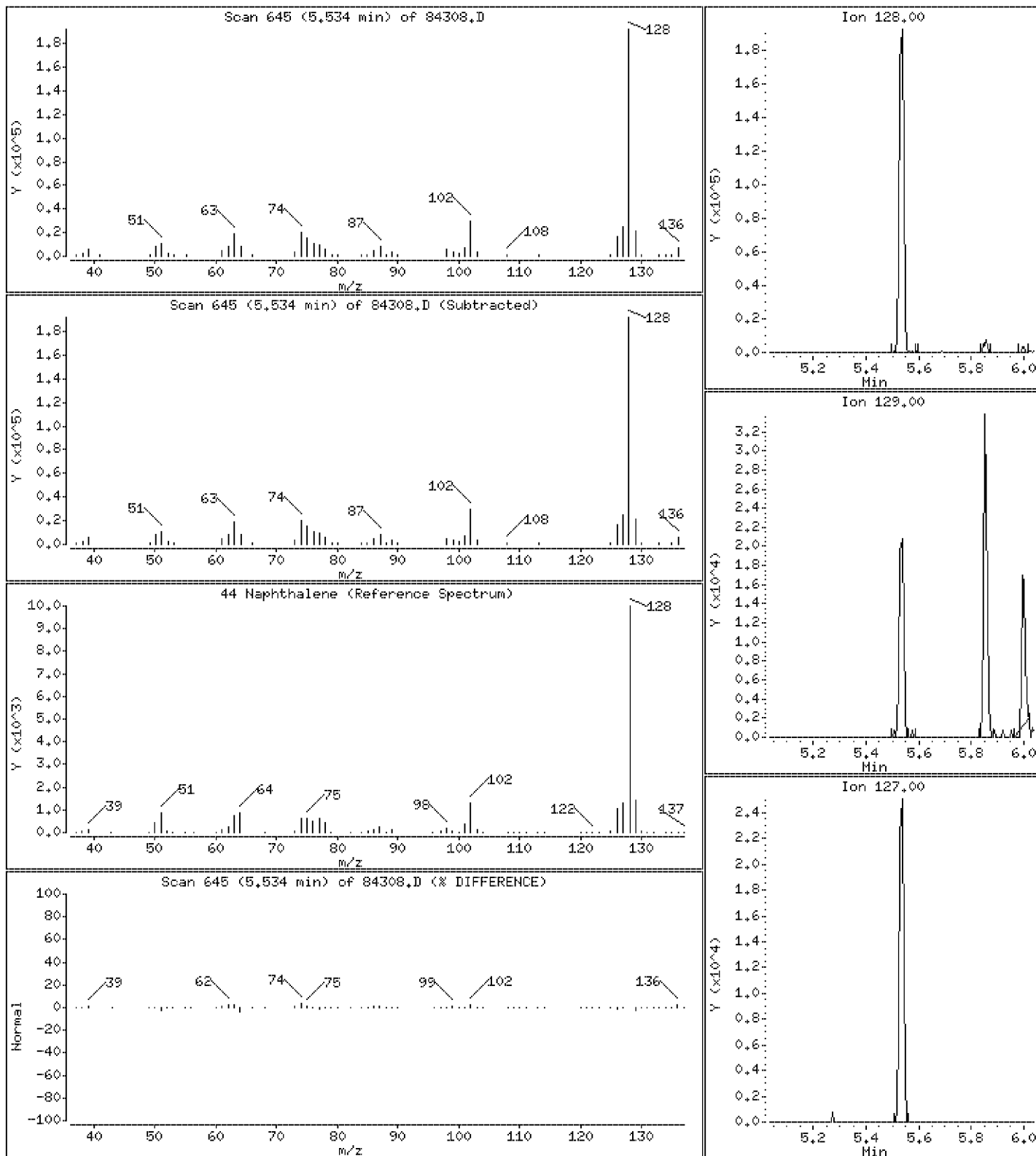
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

44 Naphthalene

Concentration: 342 ug/kg



Date : 04-MAY-2012 15:45

Client ID: EPAFMC-SD-12

Instrument: smsd03.i

Sample Info: SW350584308

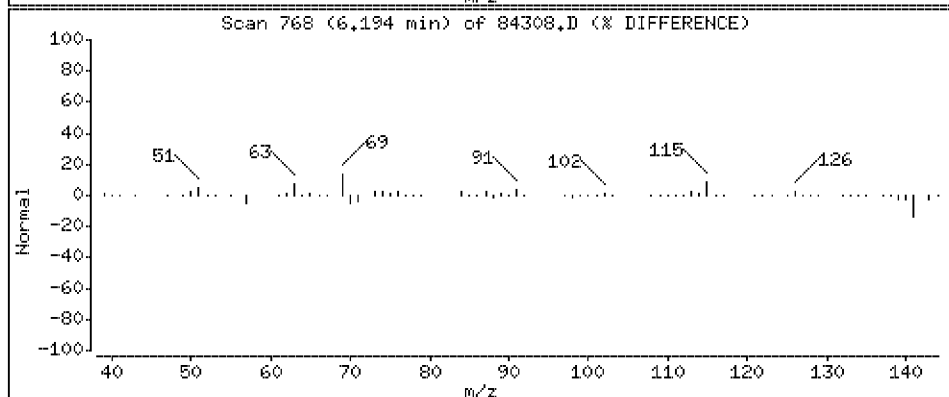
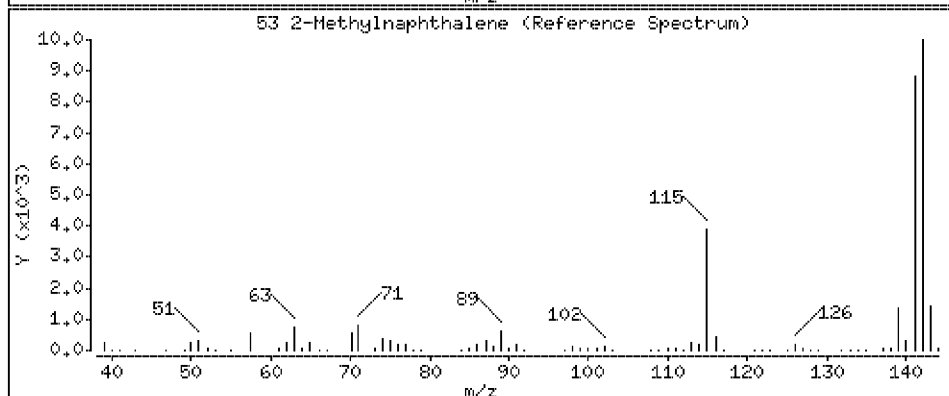
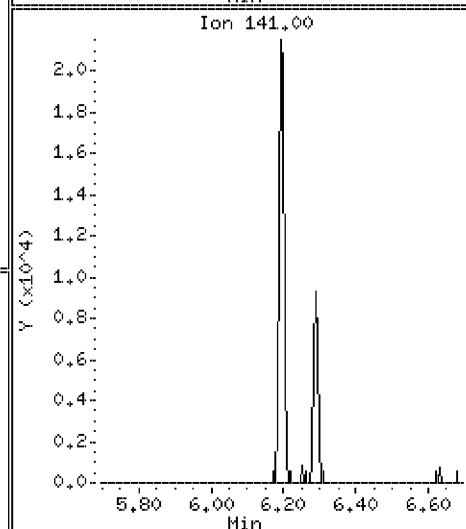
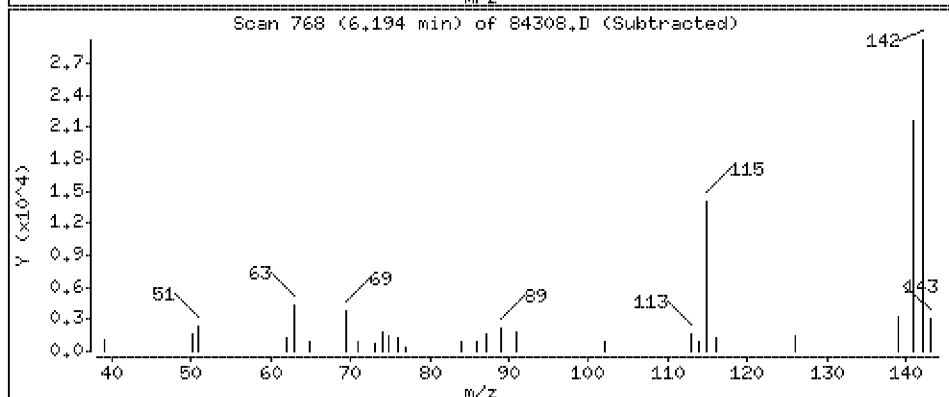
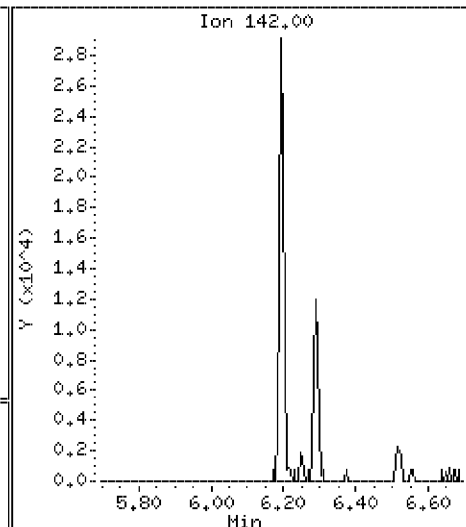
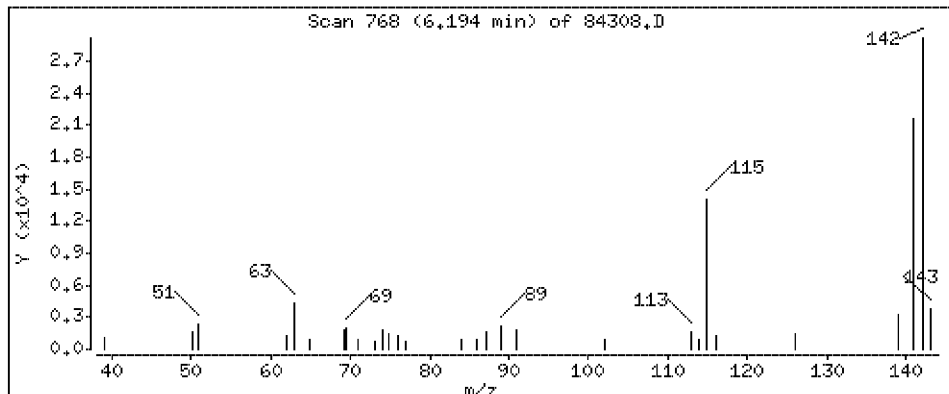
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

53 2-Methylnaphthalene

Concentration: 65.7 ug/kg



Date : 04-MAY-2012 15:45

Client ID: EPAFMC-SD-12

Instrument: smsd03.i

Sample Info: SW350584308

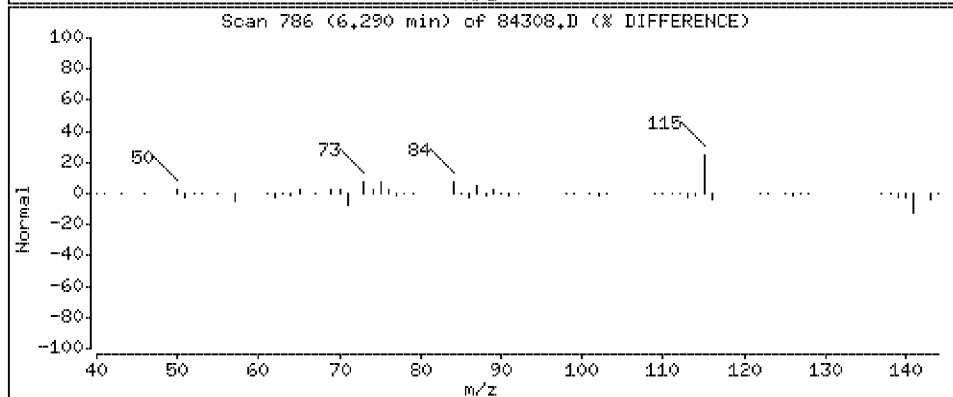
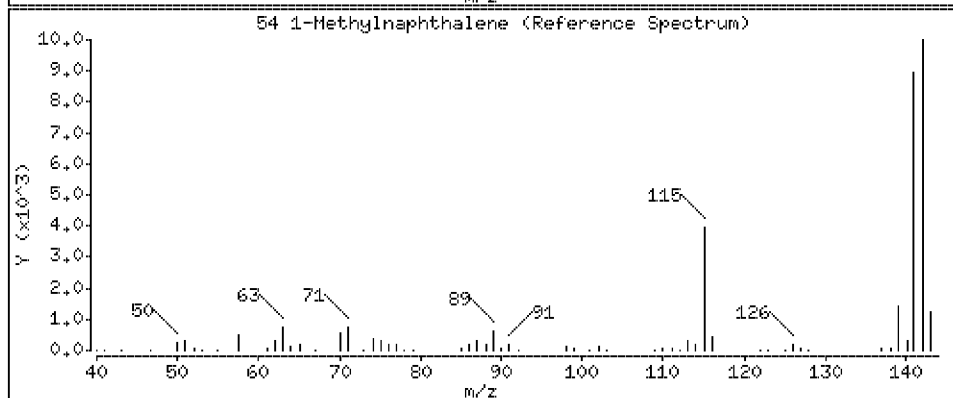
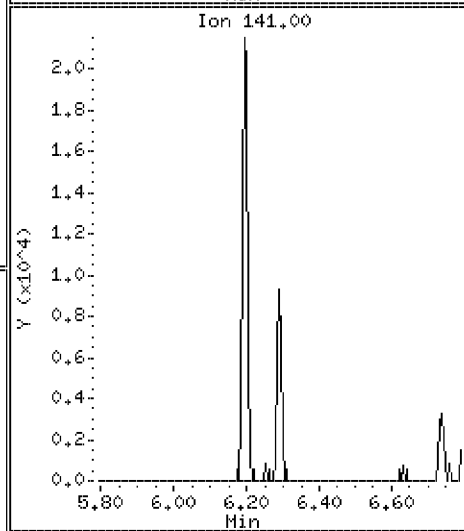
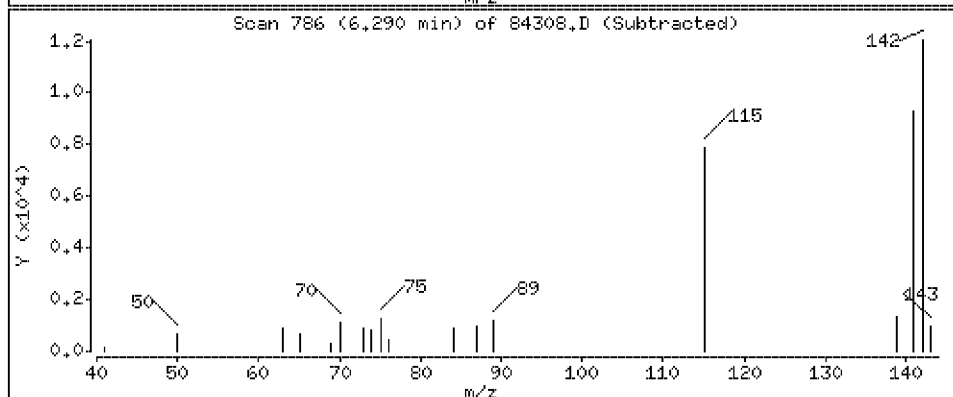
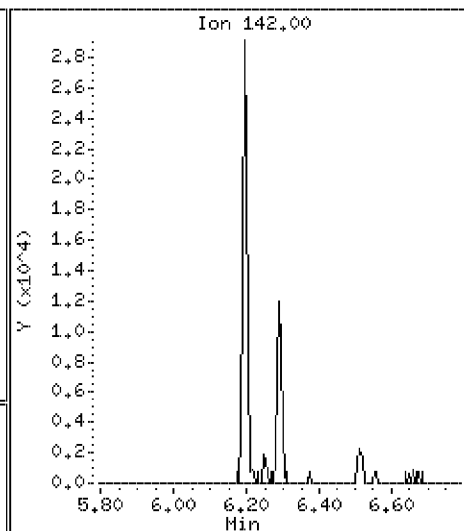
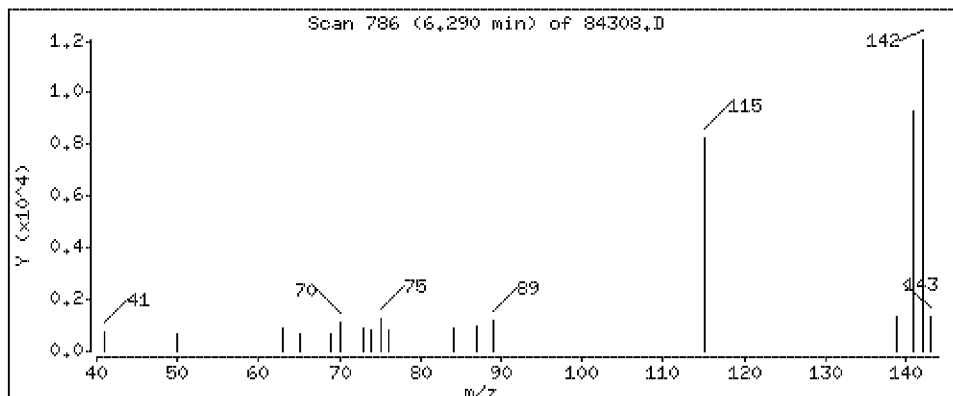
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

54 1-Methylnaphthalene

Concentration: 31.1 ug/kg



Date : 04-MAY-2012 15:45

Client ID: EPAFMC-SD-12

Instrument: smsd03.i

Sample Info: SW350584308

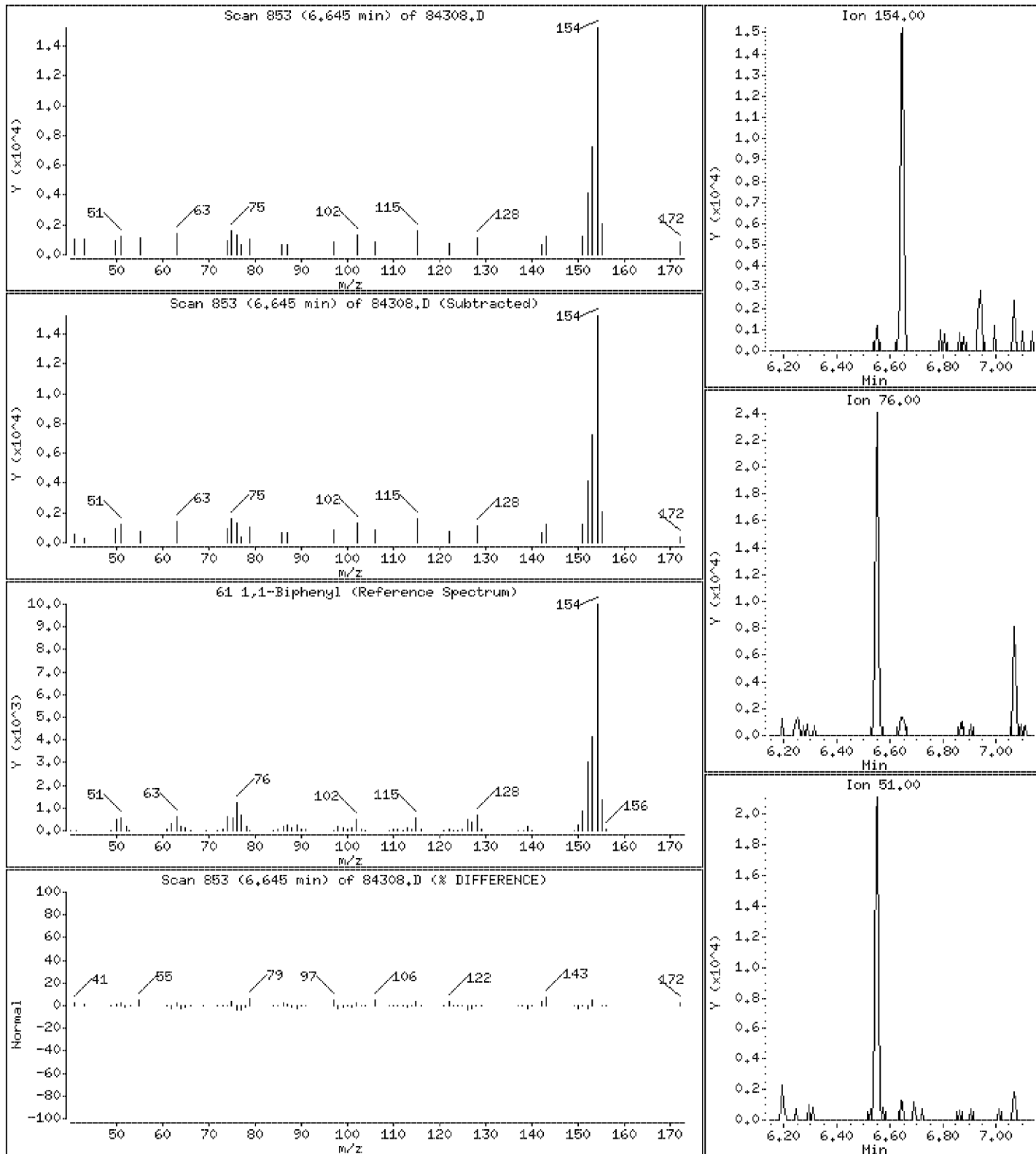
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

61 1,1-Biphenyl

Concentration: 23.3 ug/kg



Date : 04-MAY-2012 15:45

Client ID: EPAFMC-SD-12

Instrument: smsd03.i

Sample Info: SW350584308

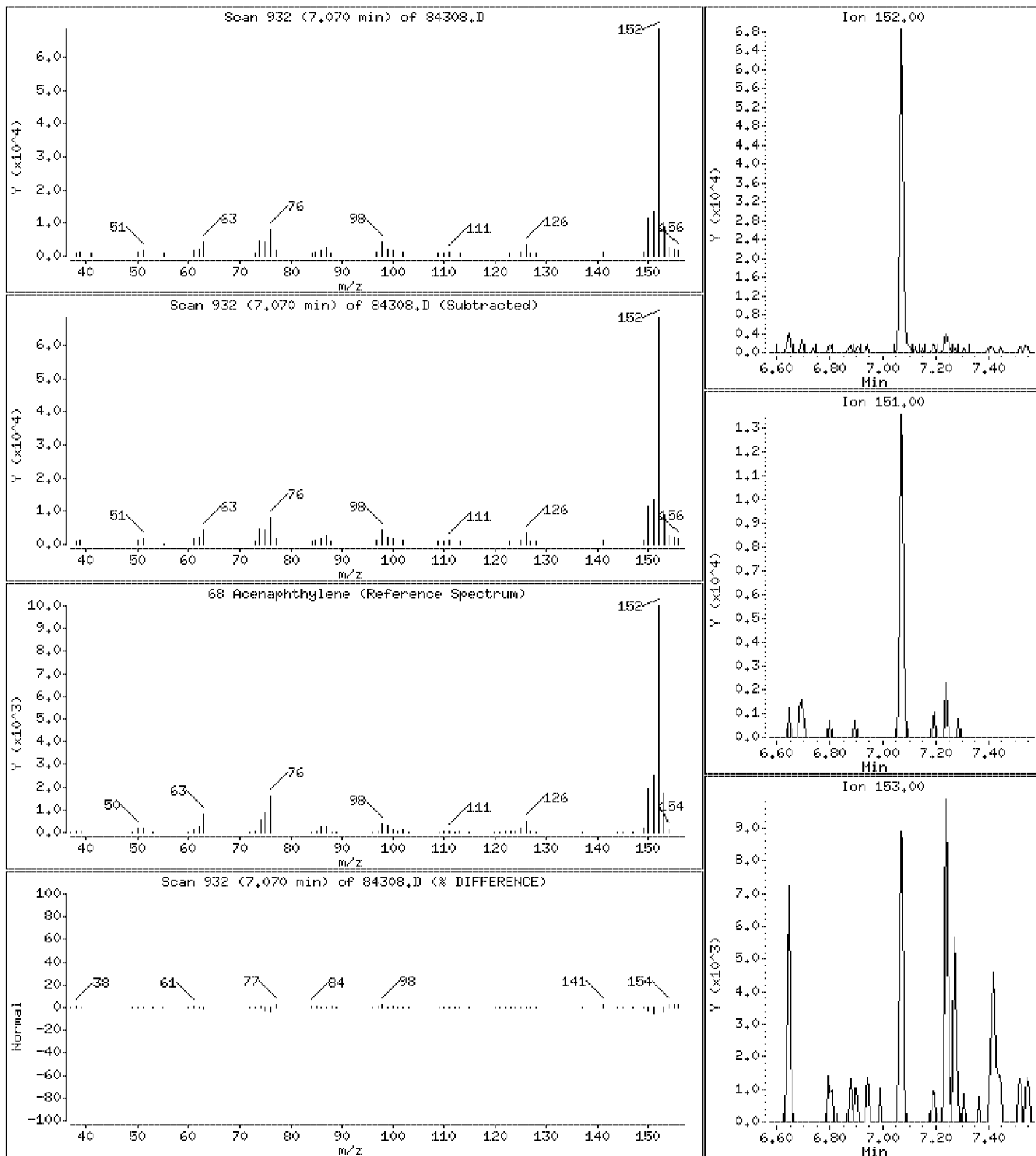
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

68 Acenaphthylene

Concentration: 97.7 ug/kg



Date : 04-MAY-2012 15:45

Client ID: EPAFMC-SD-12

Instrument: smsd03.i

Sample Info: SW350584308

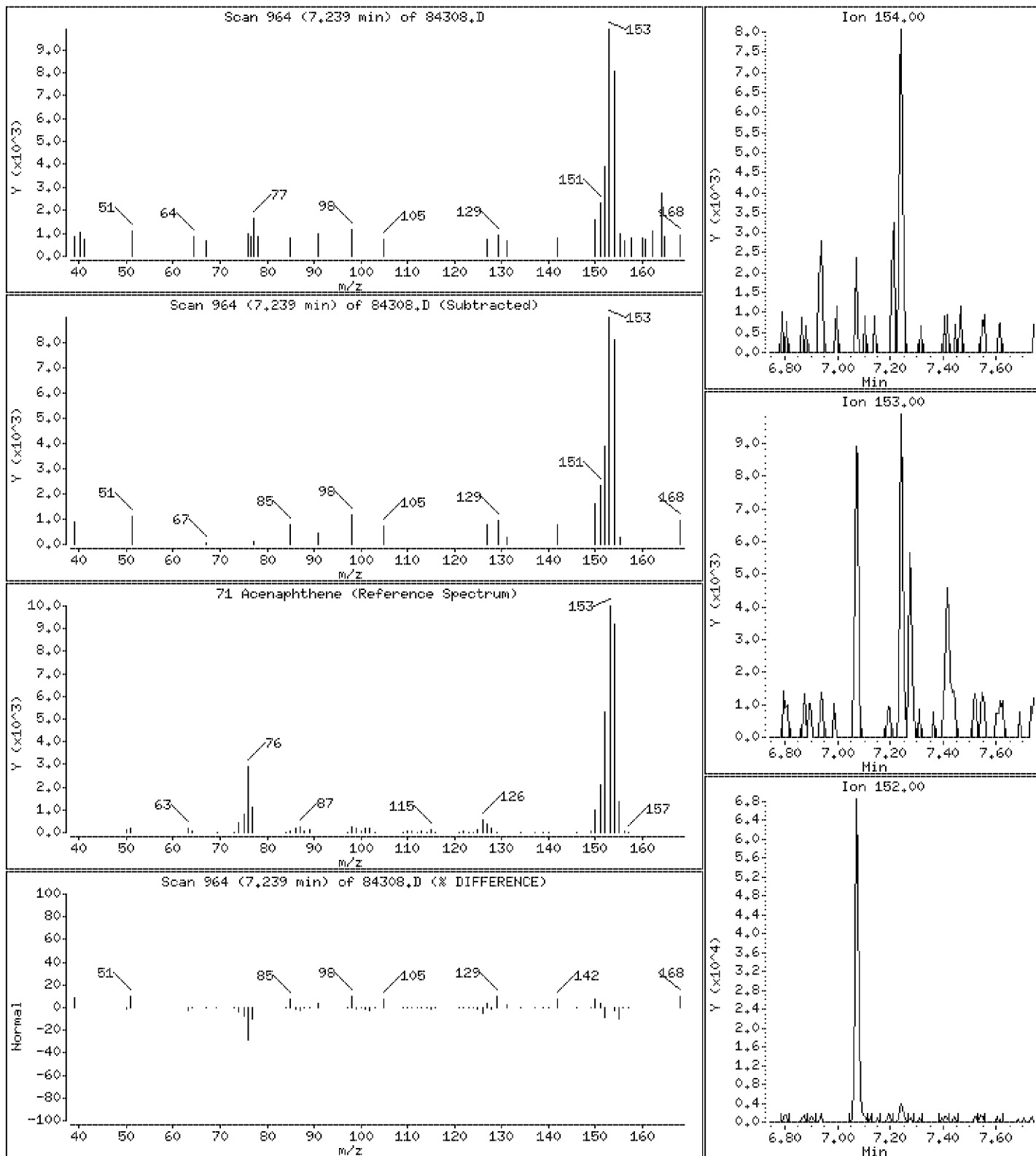
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

71 Acenaphthene

Concentration: 19.7 ug/kg



Date : 04-MAY-2012 15:45

Client ID: EPAFMC-SD-12

Instrument: smsd03.i

Sample Info: SW350584308

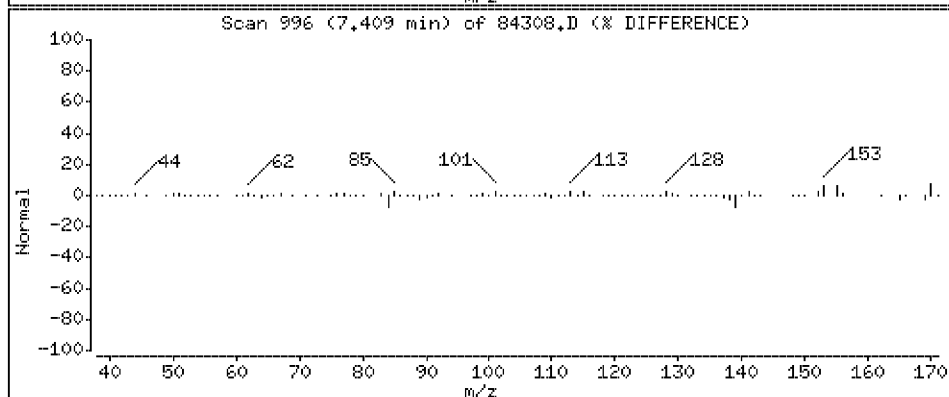
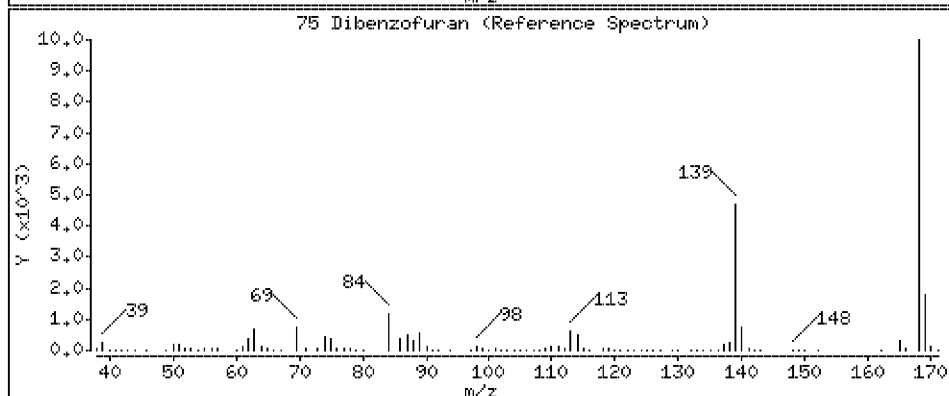
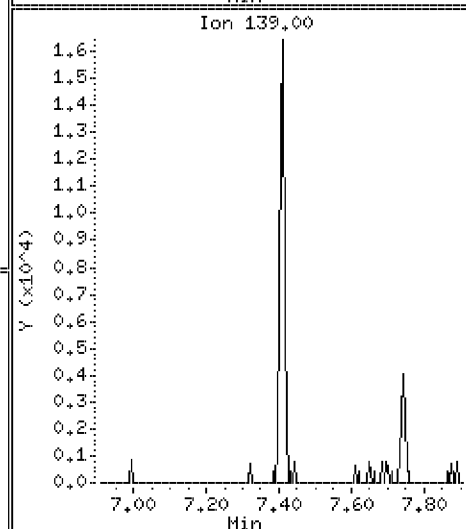
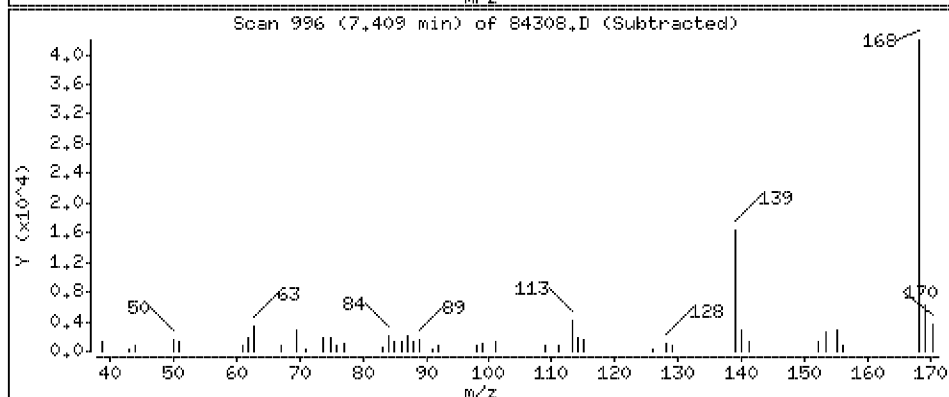
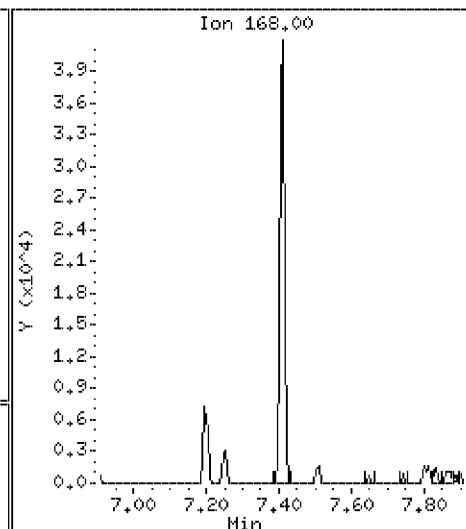
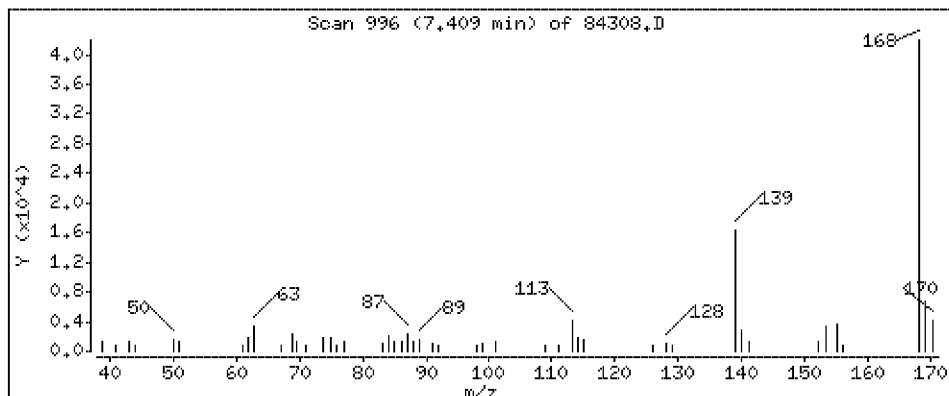
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

75 Dibenzofuran

Concentration: 57.3 ug/kg



Date : 04-MAY-2012 15:45

Client ID: EPAFMC-SD-12

Instrument: smsd03.i

Sample Info: SW350584308

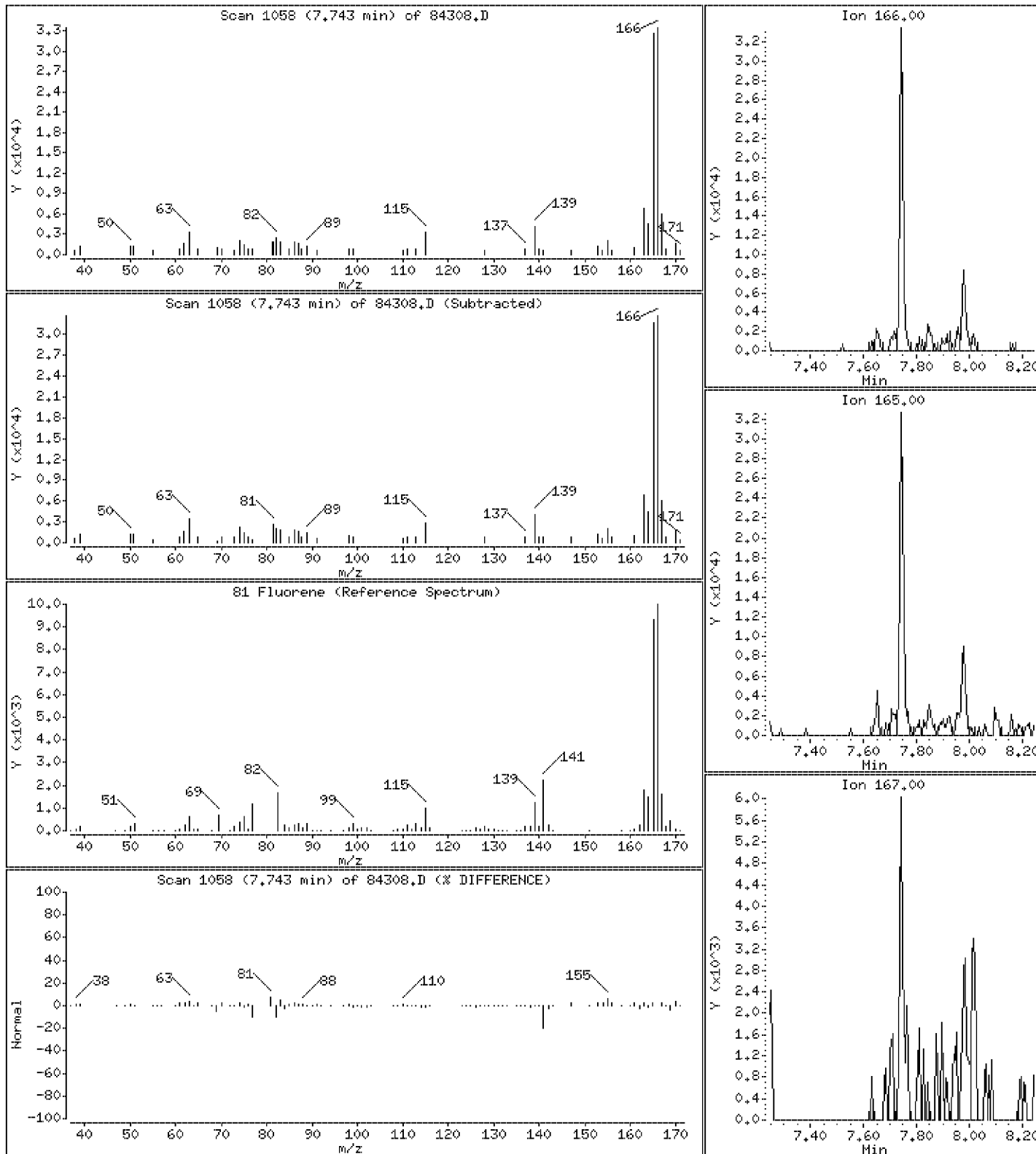
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

81 Fluorene

Concentration: 55.3 ug/kg



Date : 04-MAY-2012 15:45

Client ID: EPAFMC-SD-12

Instrument: smsd03.i

Sample Info: SW350584308

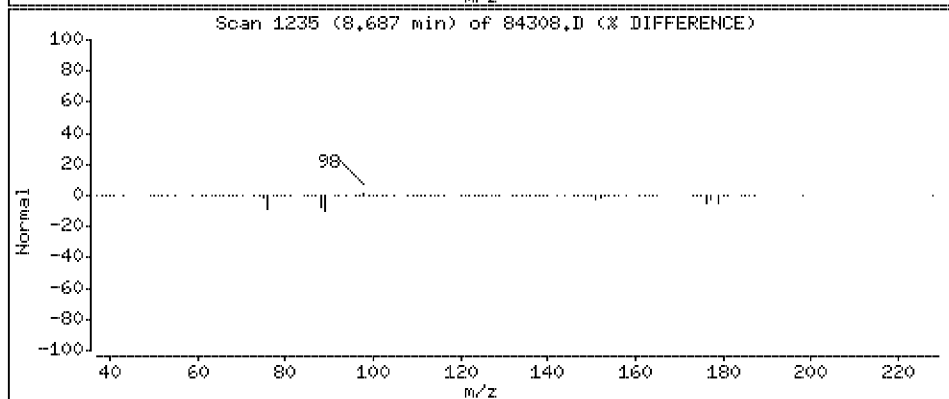
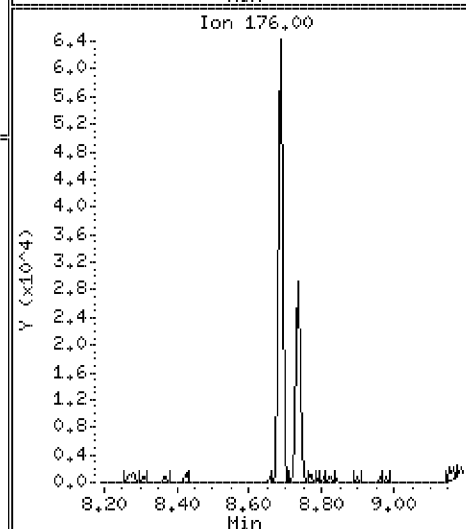
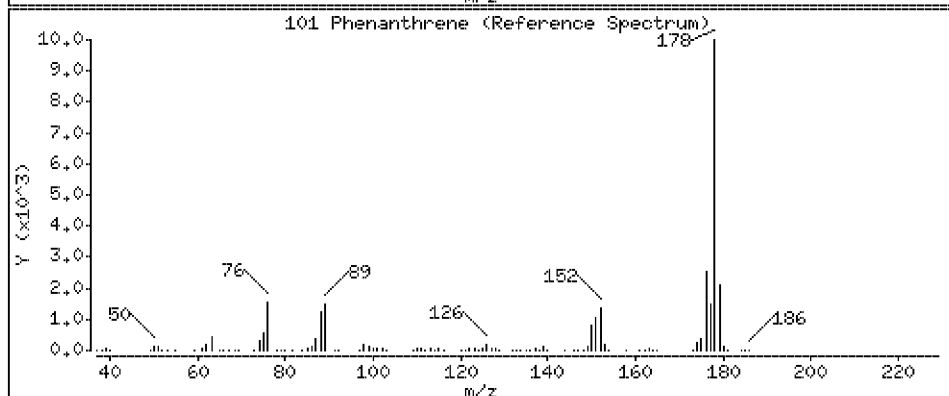
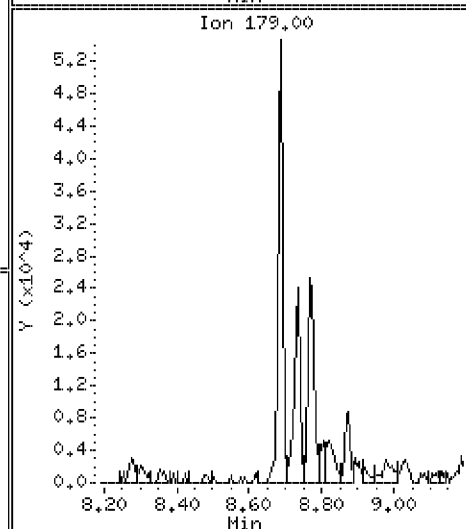
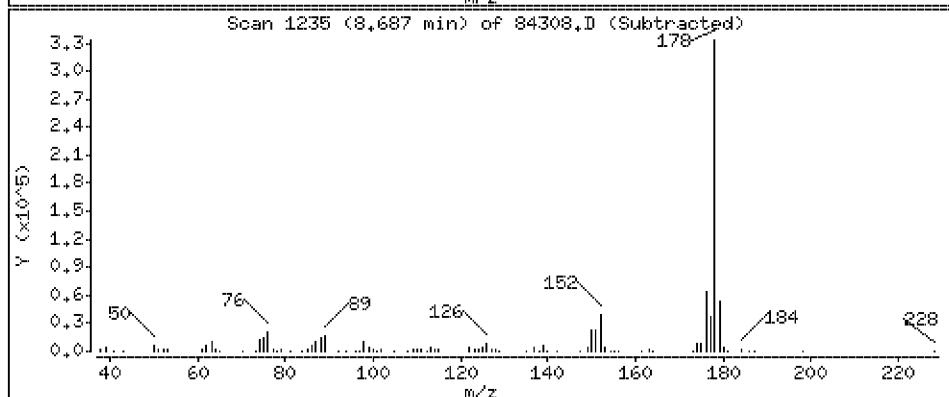
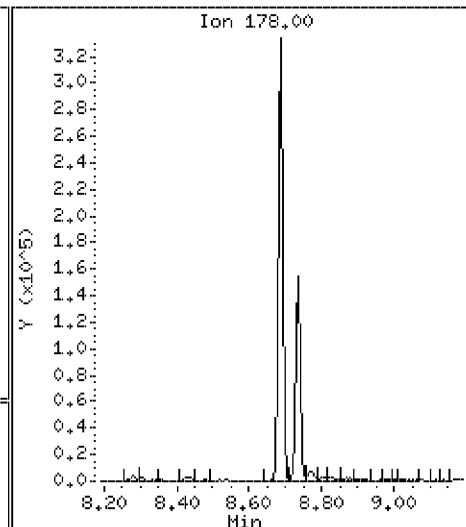
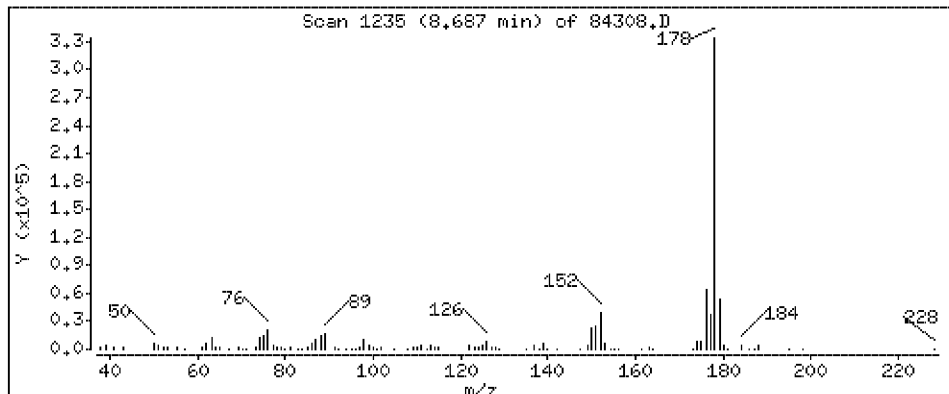
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

101 Phenanthrene

Concentration: 373 ug/kg



Date : 04-MAY-2012 15:45

Client ID: EPAFMC-SD-12

Instrument: smsd03.i

Sample Info: SW350584308

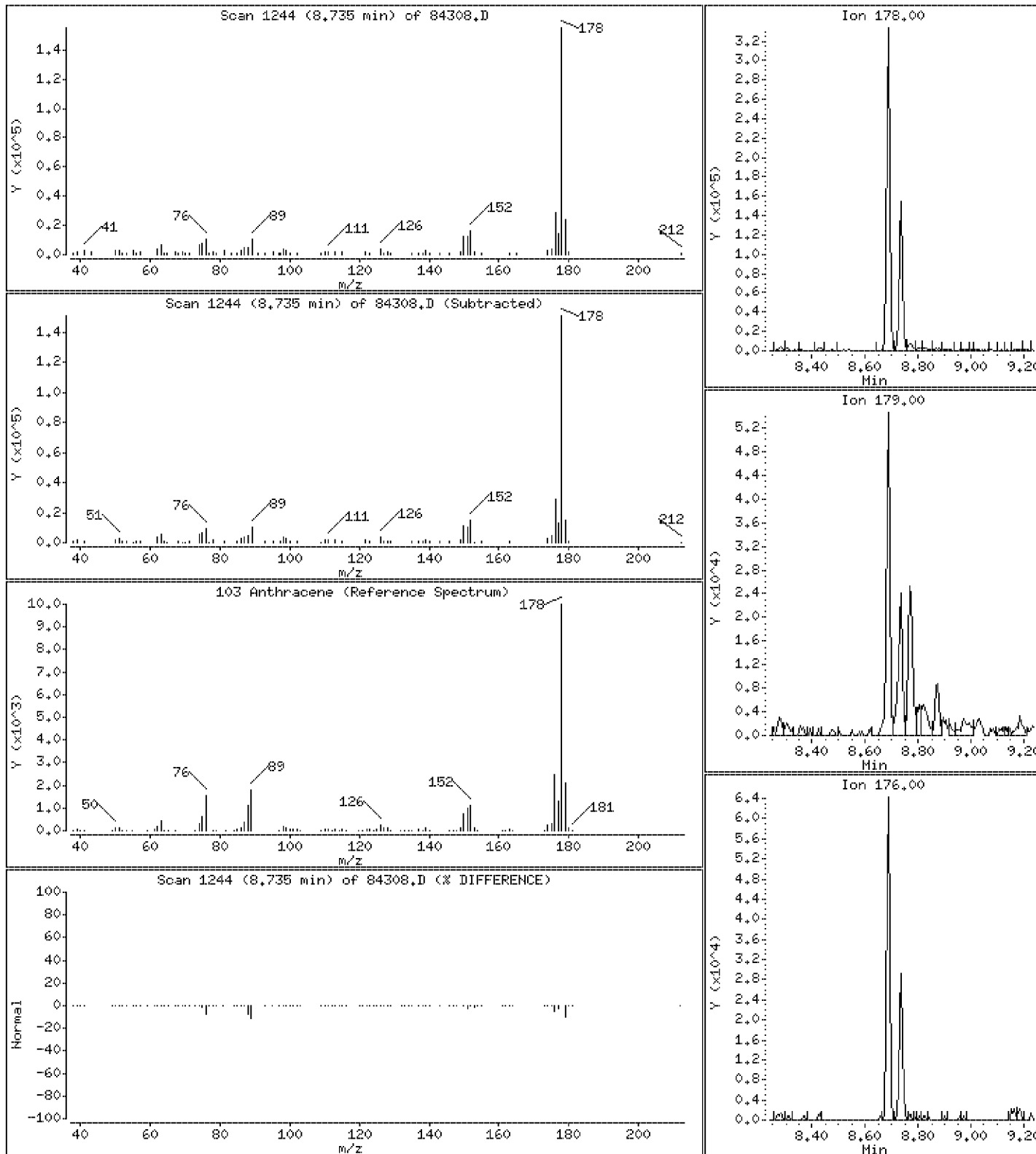
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

103 Anthracene

Concentration: 176 ug/kg



Date : 04-MAY-2012 15:45

Client ID: EPAFMC-SD-12

Instrument: smsd03.i

Sample Info: SW350584308

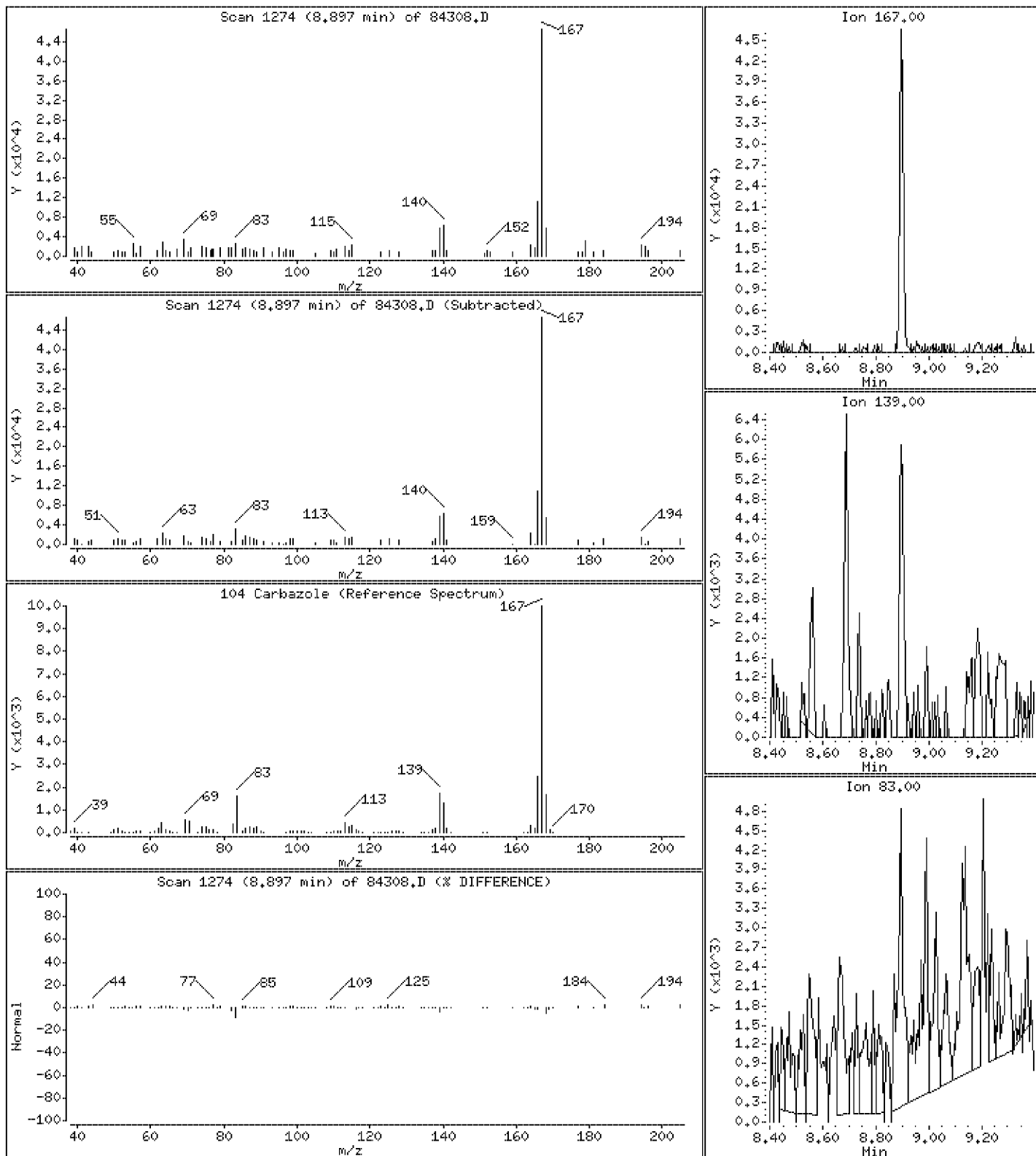
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

104 Carbazole

Concentration: 69.8 ug/kg



Date : 04-MAY-2012 15:45

Client ID: EPAFMC-SD-12

Instrument: smsd03.i

Sample Info: SW350584308

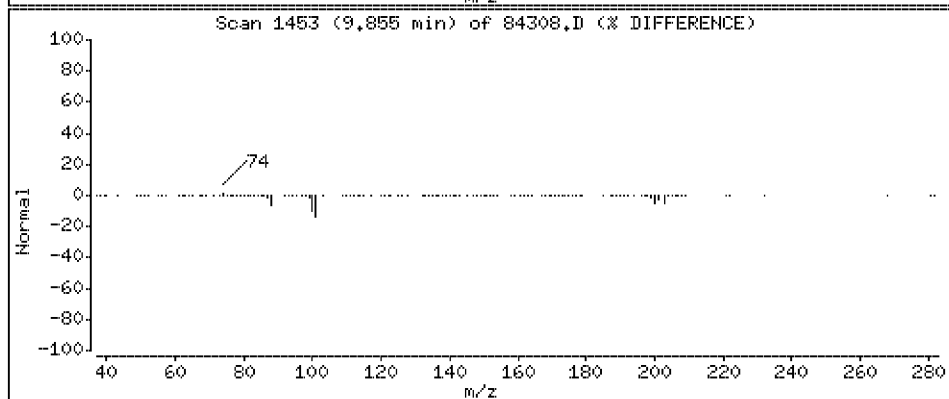
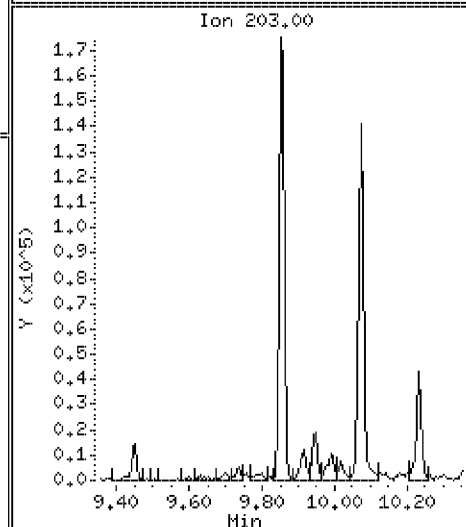
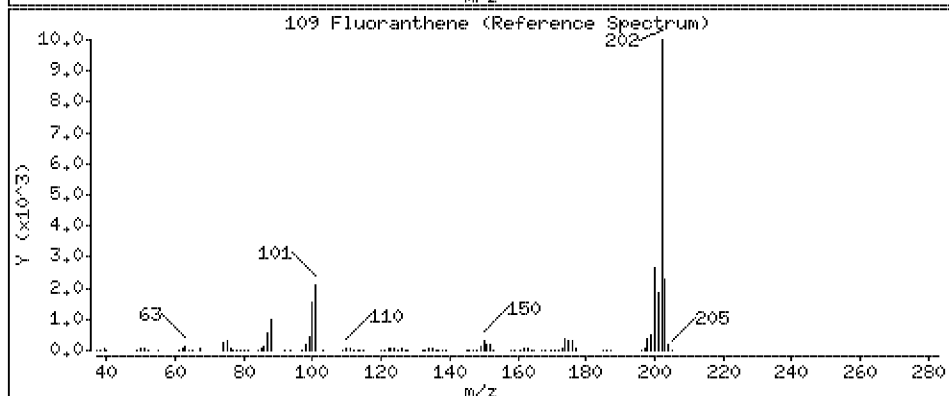
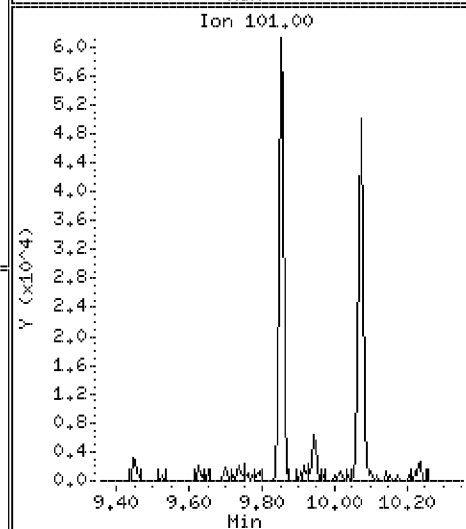
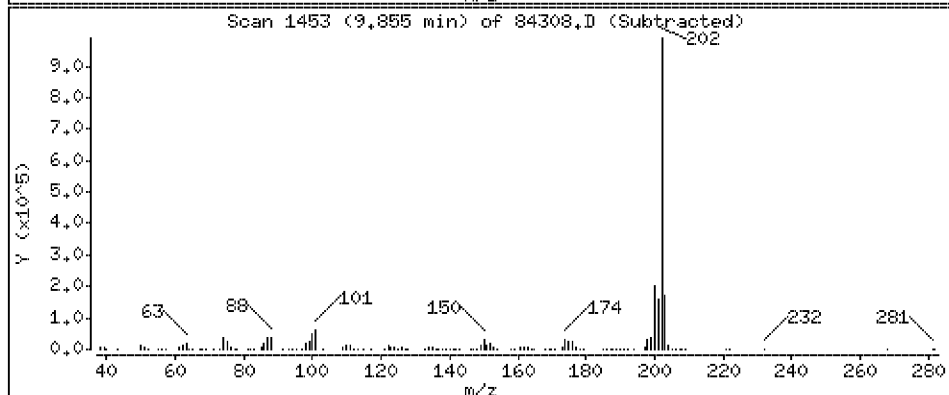
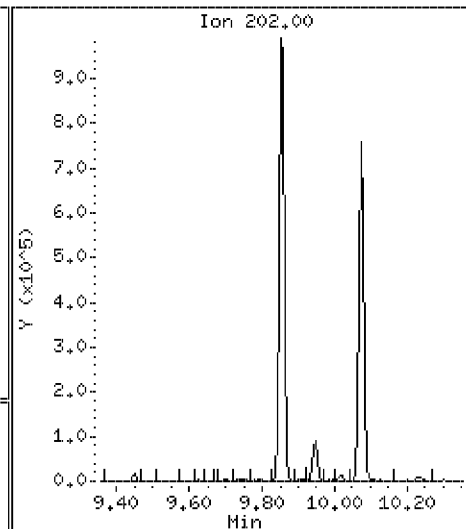
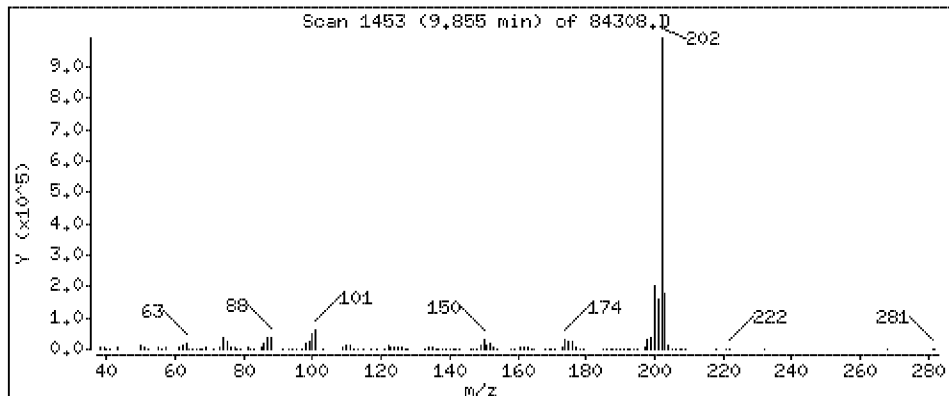
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

109 Fluoranthene

Concentration: 1060 ug/kg



Date : 04-MAY-2012 15:45

Client ID: EPAFMC-SD-12

Instrument: smsd03.i

Sample Info: SW350584308

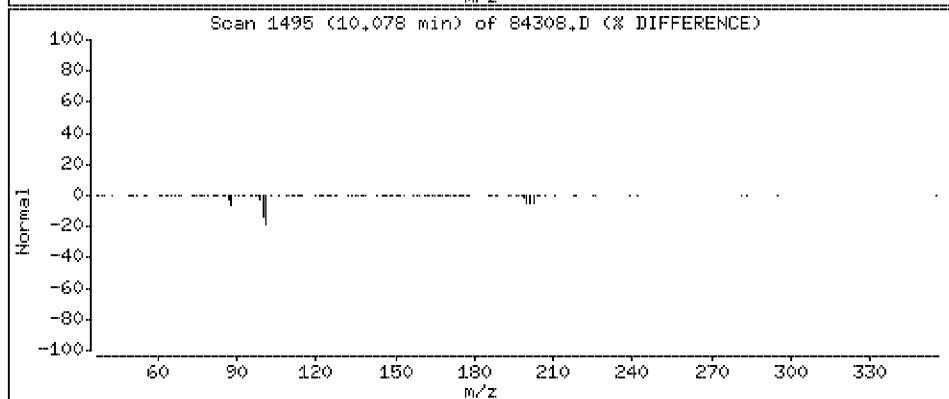
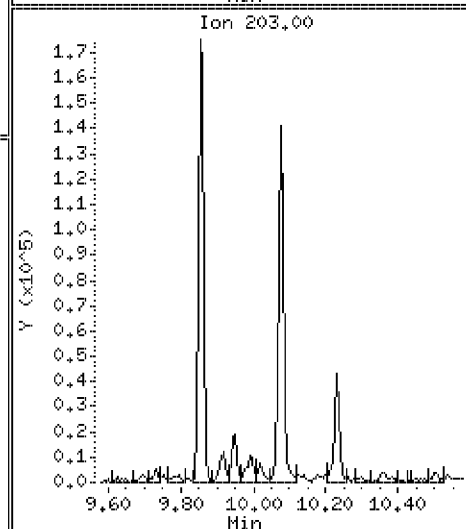
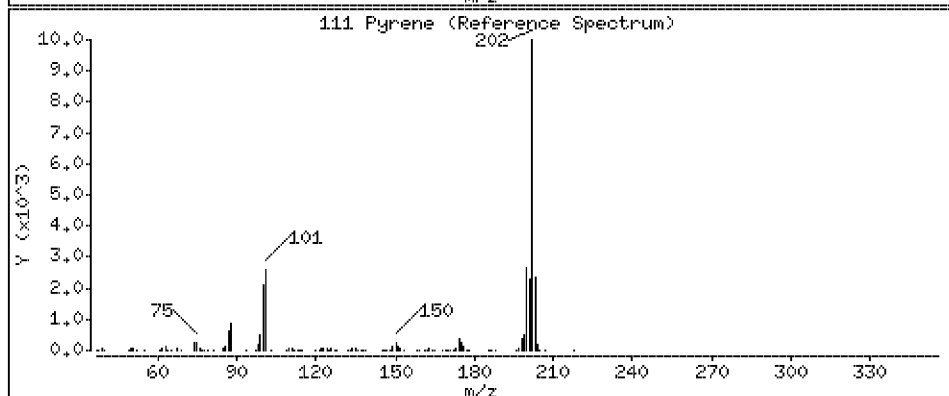
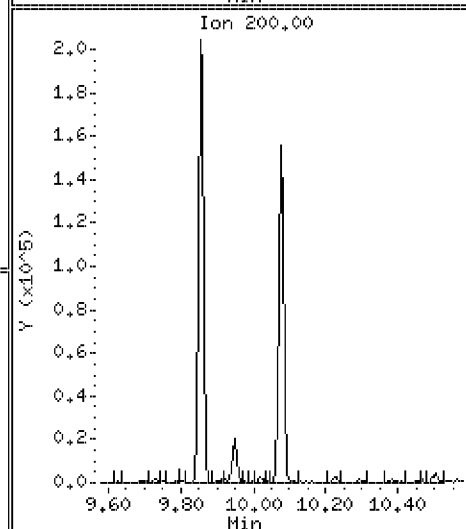
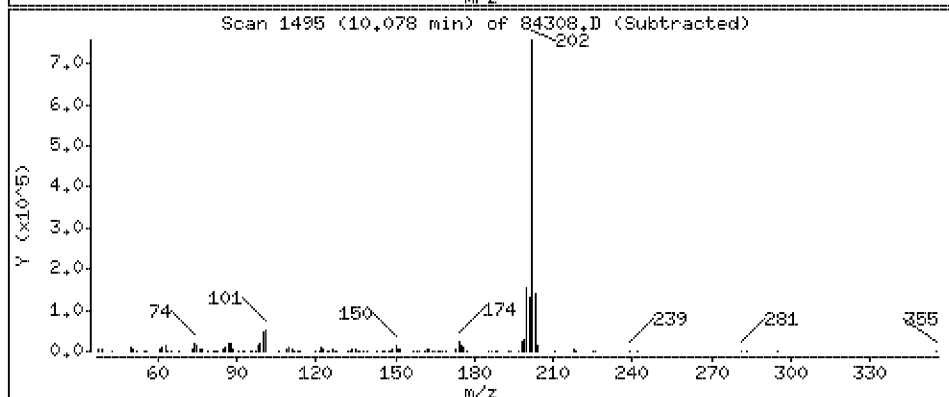
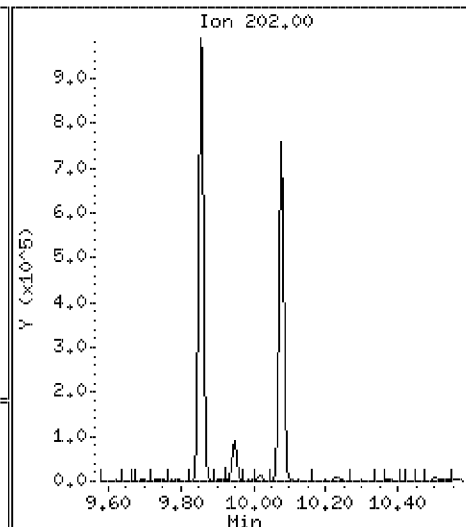
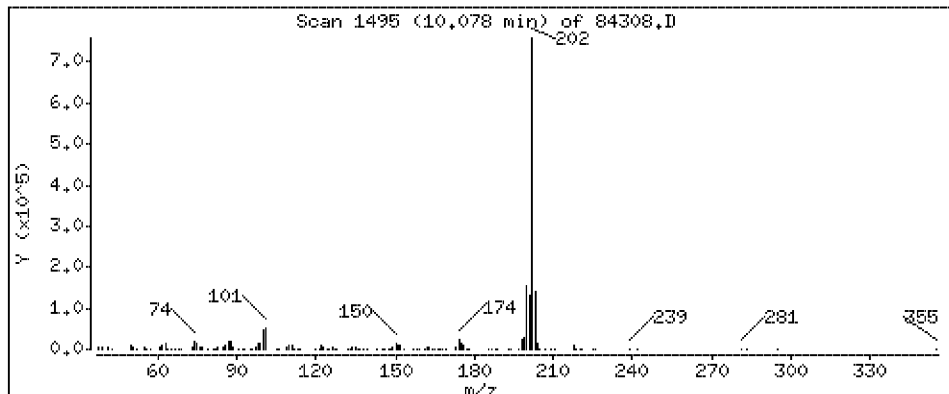
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

111 Pyrene

Concentration: 878 ug/kg



Date : 04-MAY-2012 15:45

Client ID: EPAFMC-SD-12

Instrument: smsd03.i

Sample Info: SW350584308

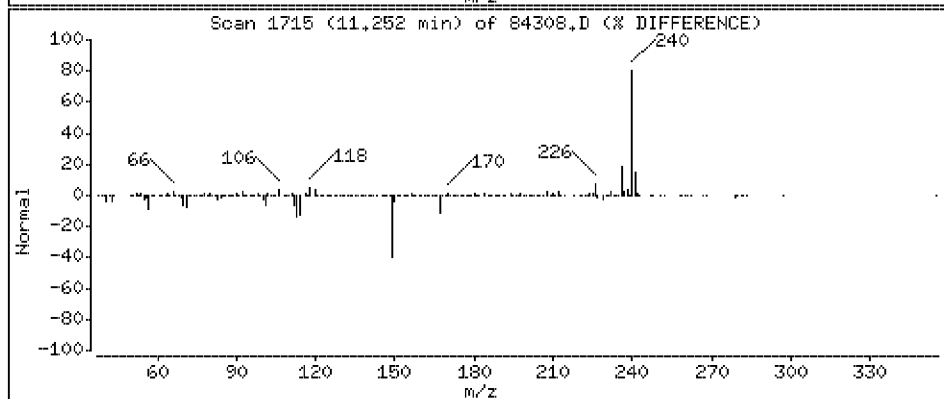
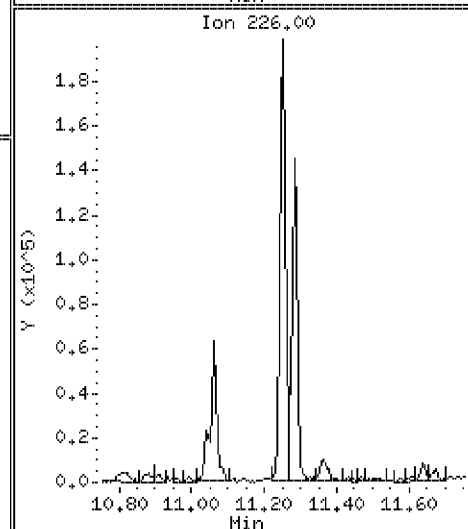
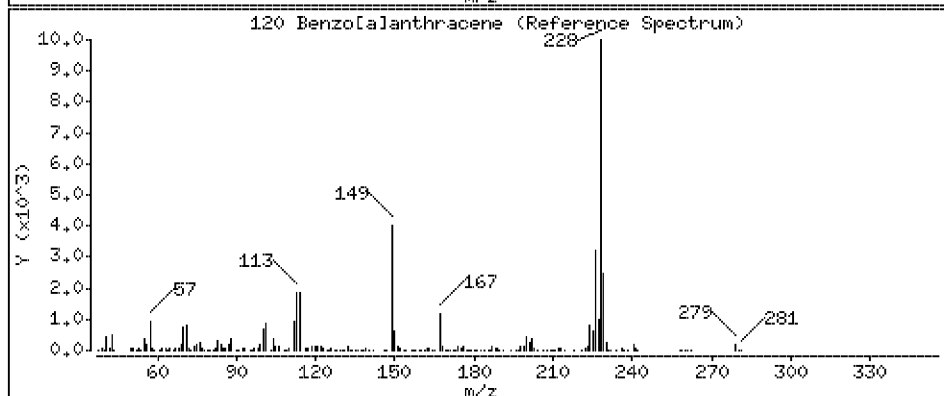
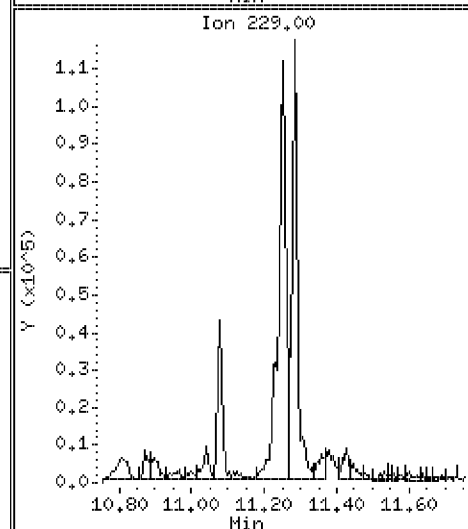
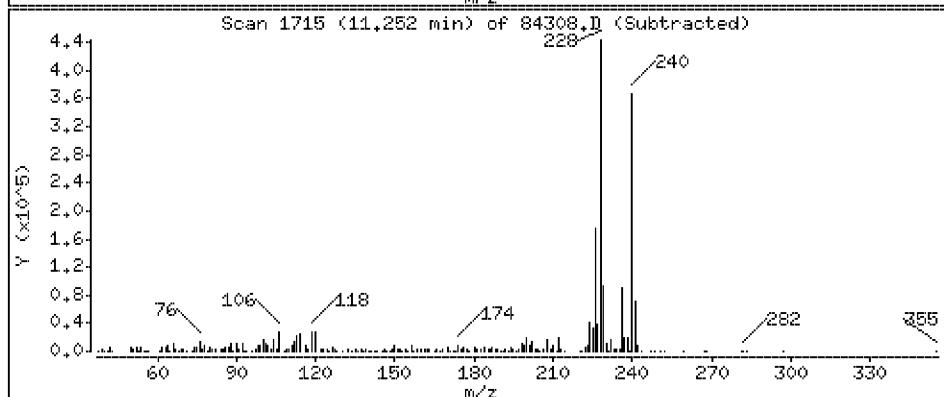
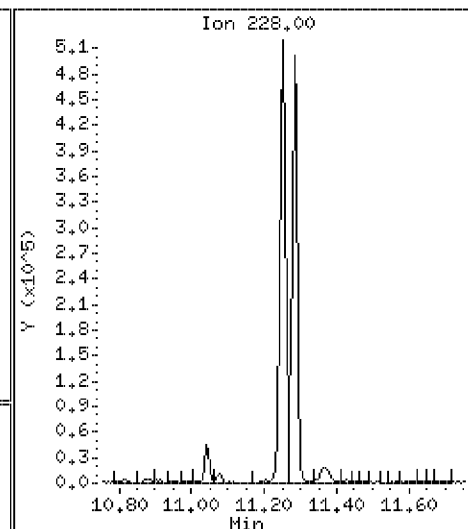
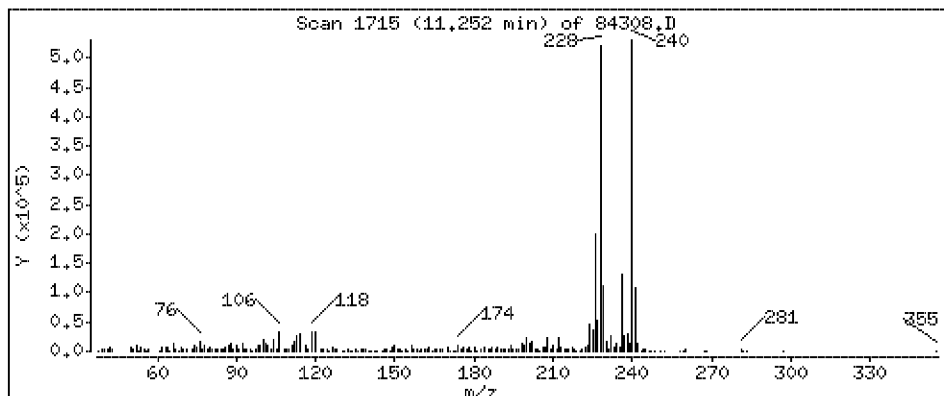
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

120 Benzo[*a*]anthracene

Concentration: 574 ug/kg



Date : 04-MAY-2012 15:45

Client ID: EPAFMC-SD-12

Instrument: smsd03.i

Sample Info: SW350584308

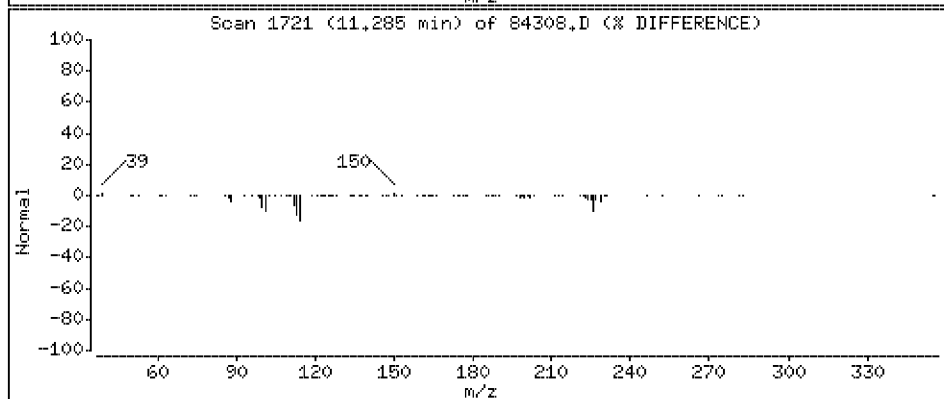
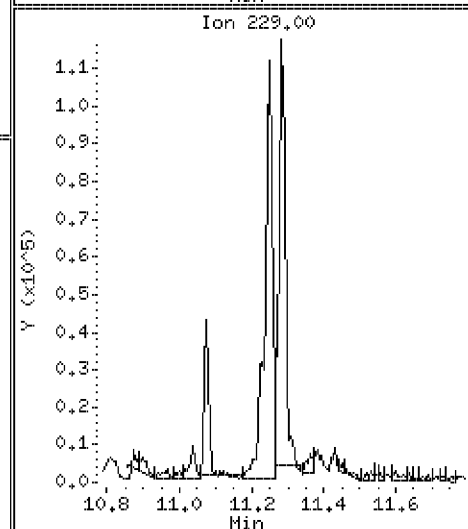
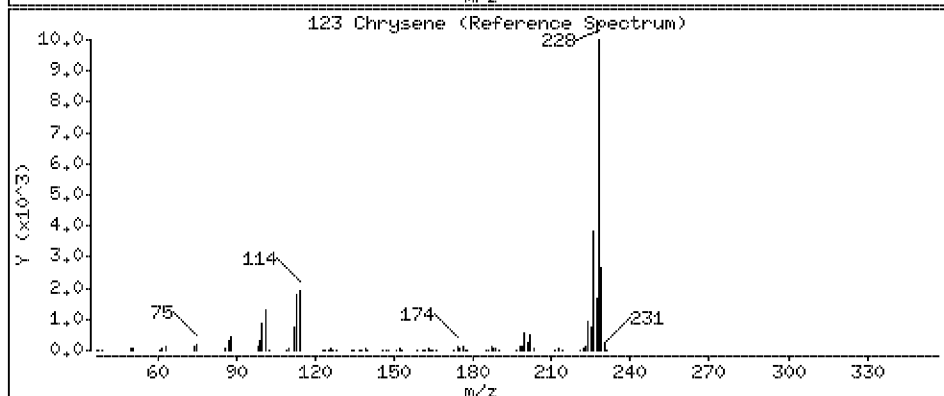
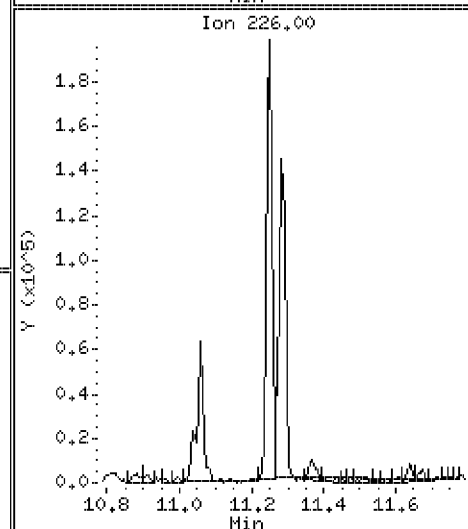
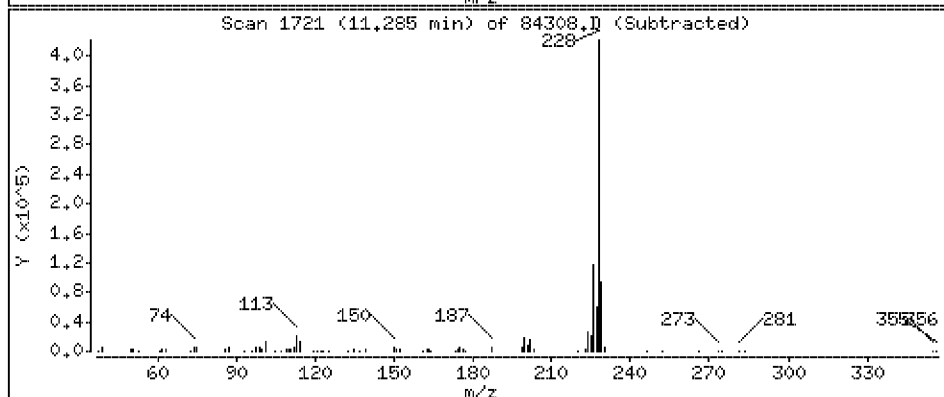
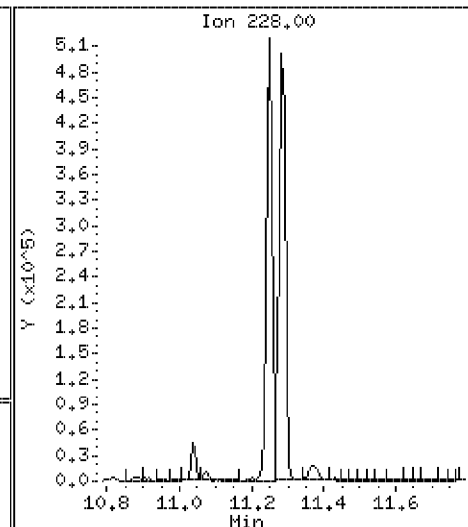
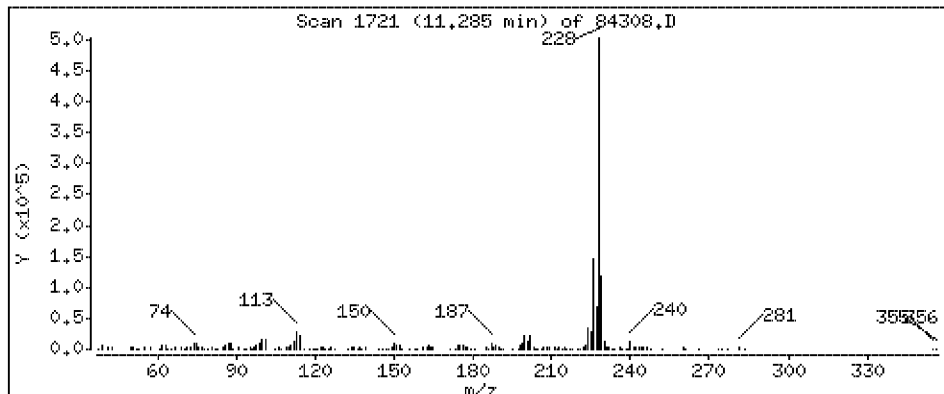
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

123 Chrysene

Concentration: 550 ug/kg



Date : 04-MAY-2012 15:45

Client ID: EPAFMC-SD-12

Instrument: smsd03.i

Sample Info: SW350584308

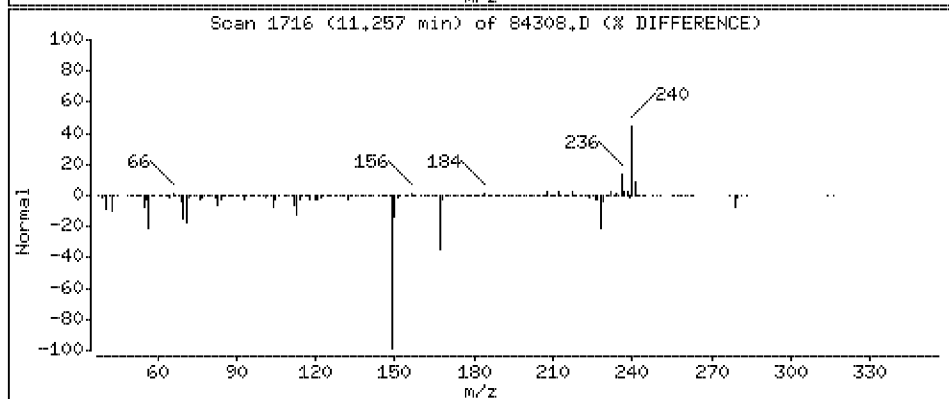
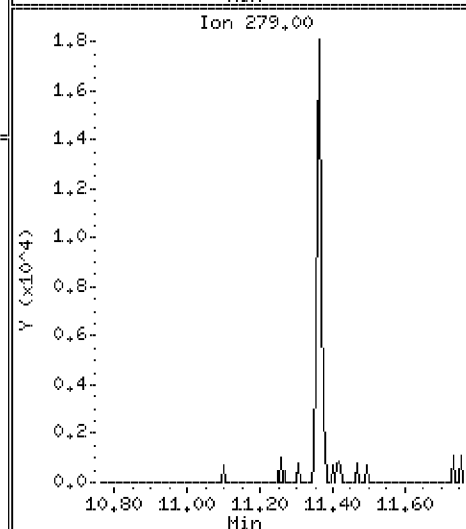
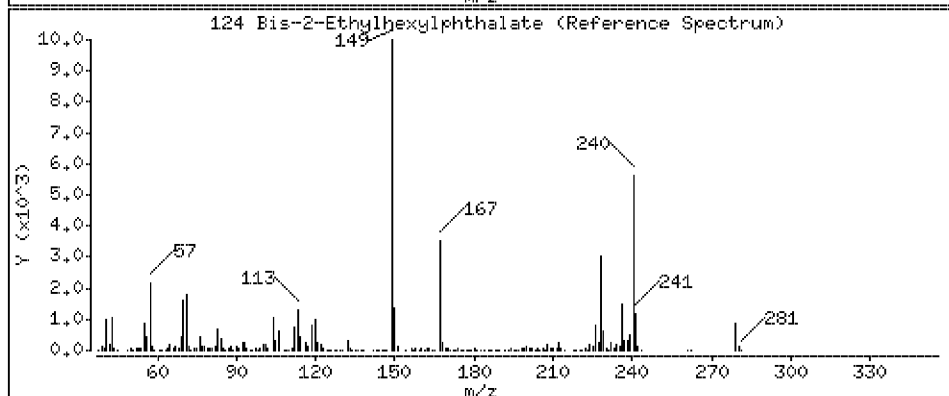
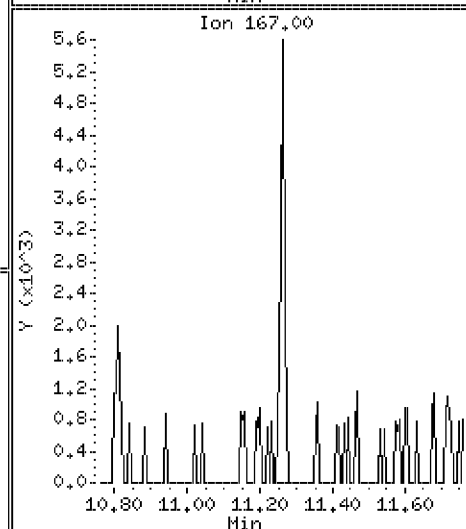
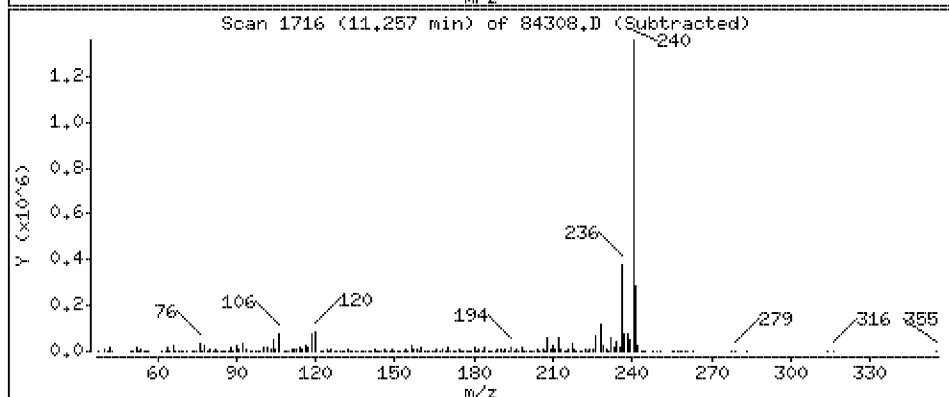
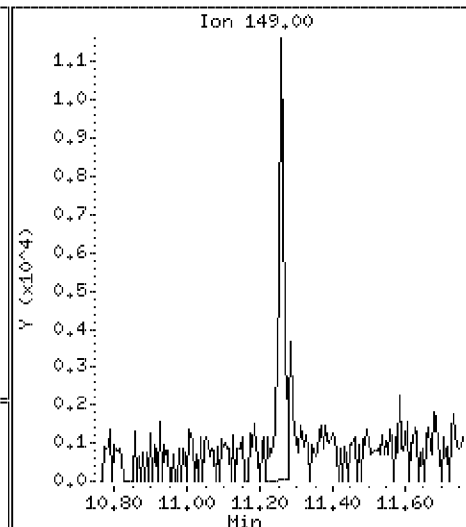
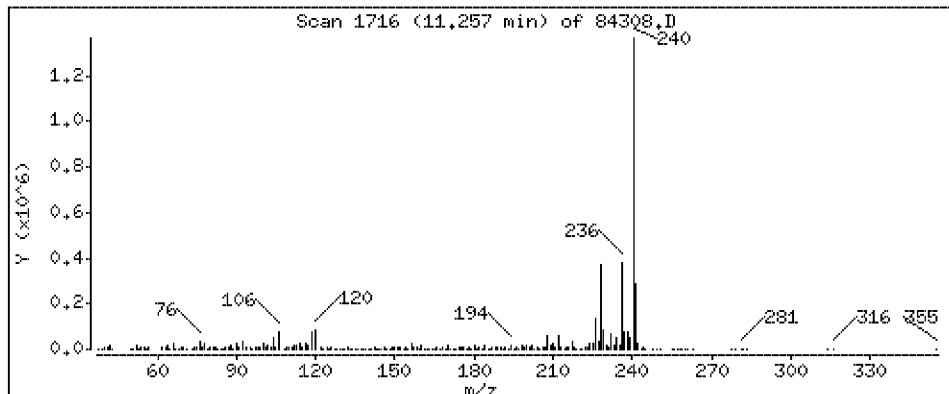
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

124 Bis-2-Ethylhexylphthalate

Concentration: 21.5 ug/kg



Date : 04-MAY-2012 15:45

Client ID: EPAFMC-SD-12

Instrument: smsd03.i

Sample Info: SW350584308

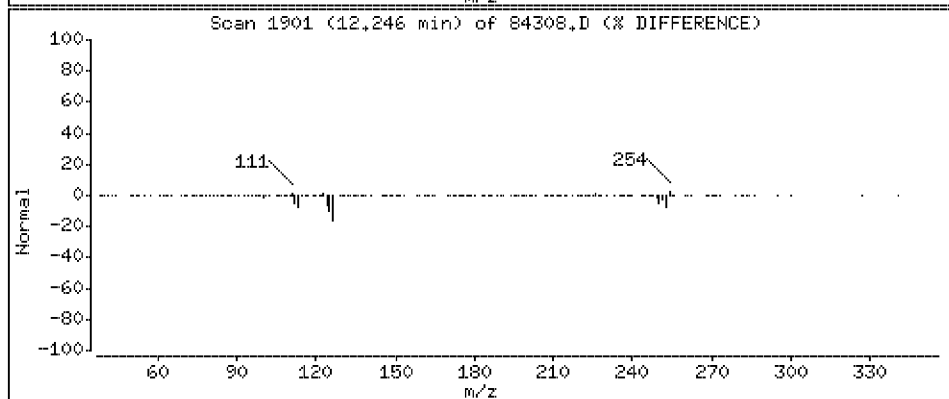
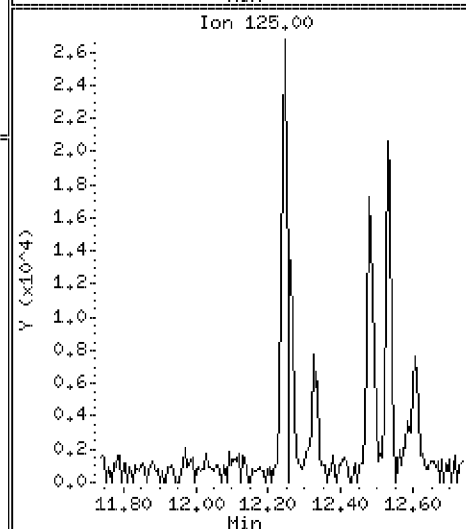
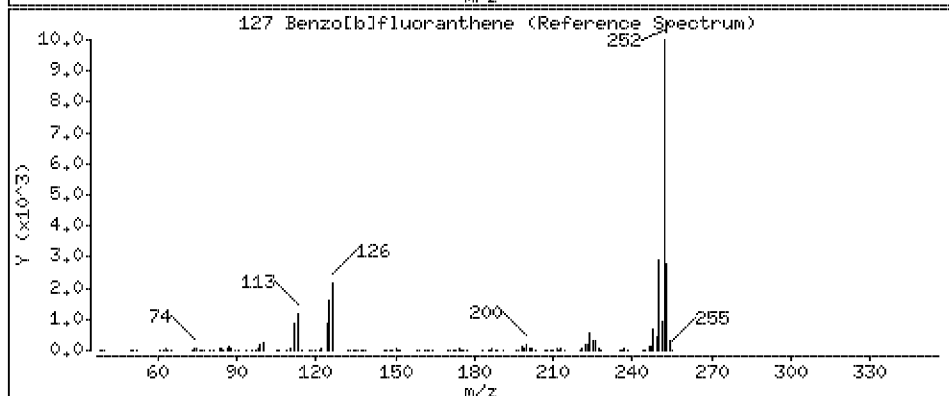
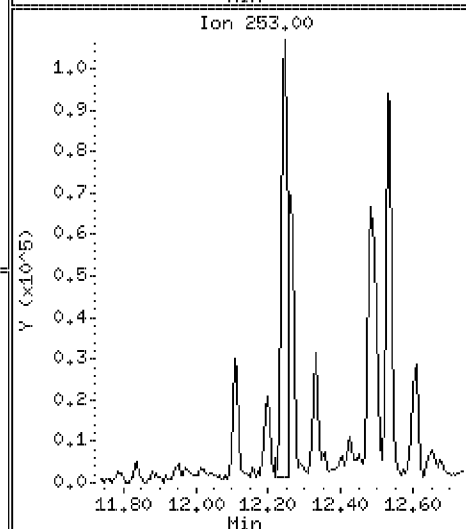
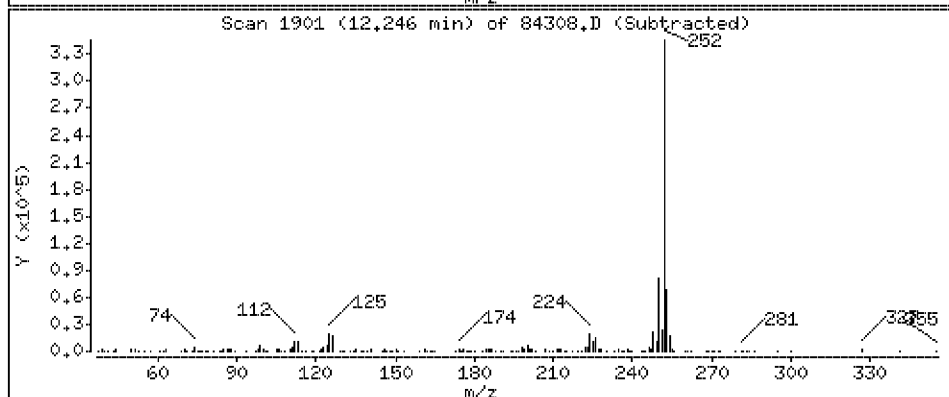
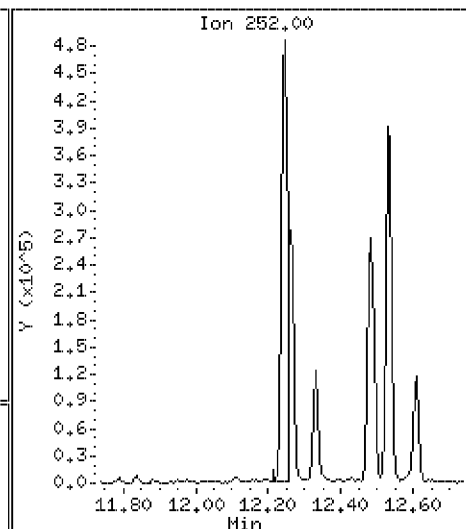
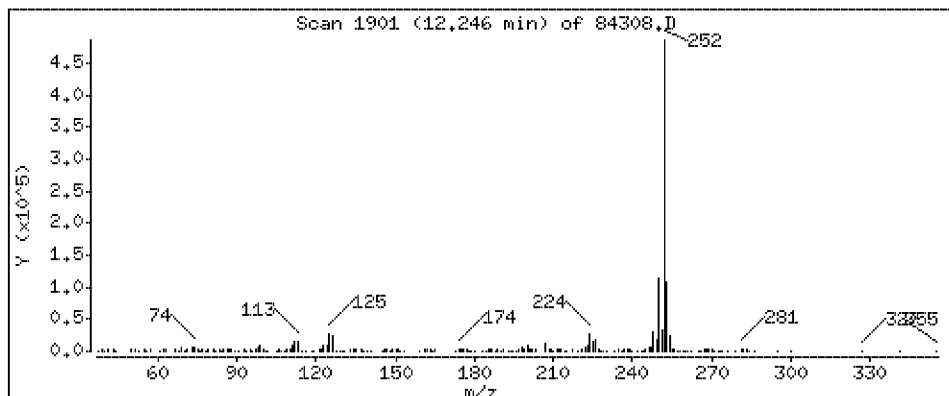
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

127 Benzo[b]fluoranthene

Concentration: 569 ug/kg



Date : 04-MAY-2012 15:45

Client ID: EPAFMC-SD-12

Instrument: smsd03.i

Sample Info: SW350584308

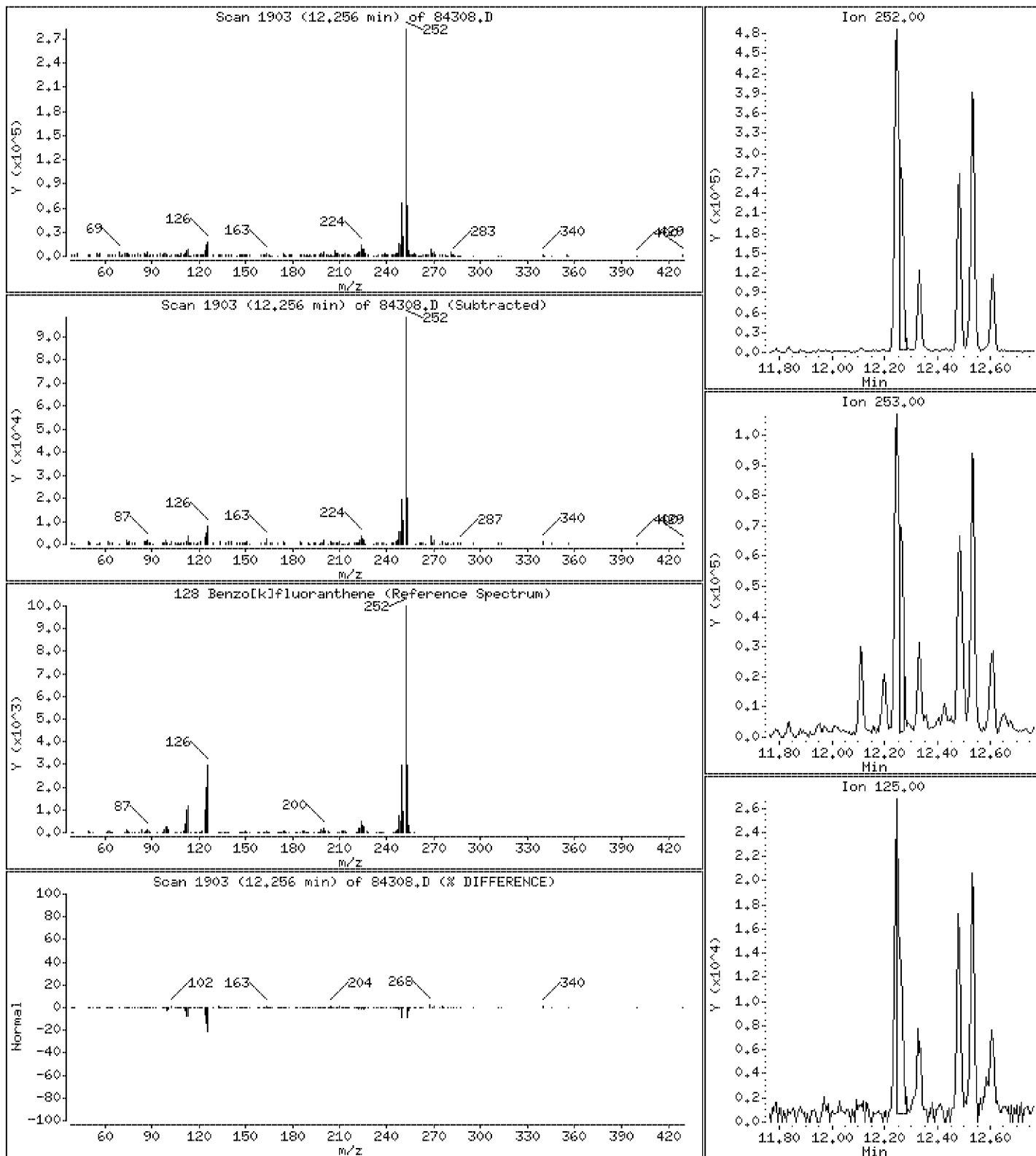
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

128 Benzo[k]fluoranthene

Concentration: 279 ug/kg



Date : 04-MAY-2012 15:45

Client ID: EPAFMC-SD-12

Instrument: smsd03.i

Sample Info: SW350584308

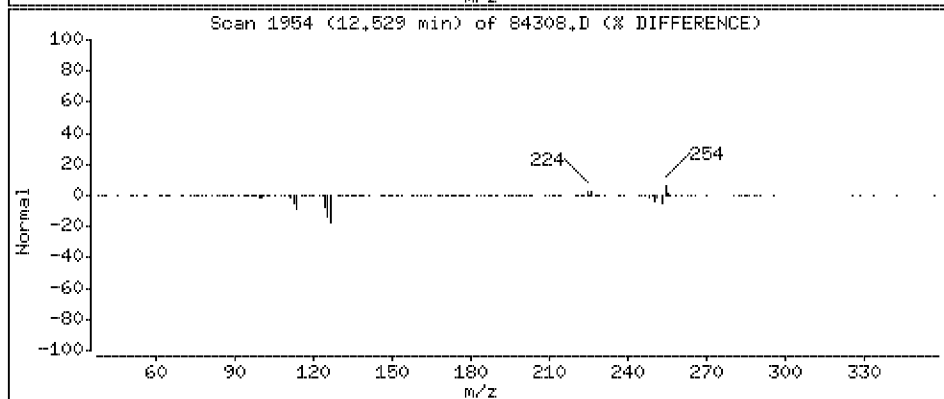
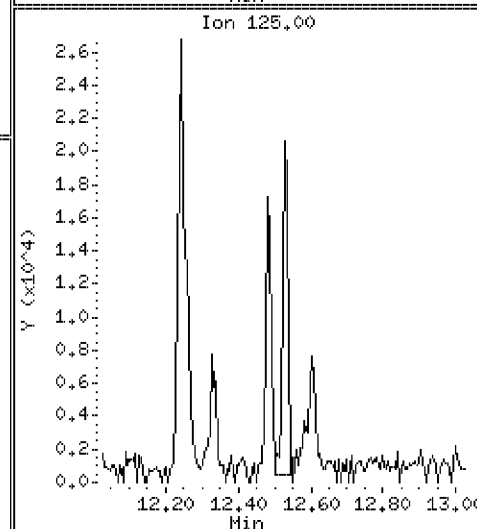
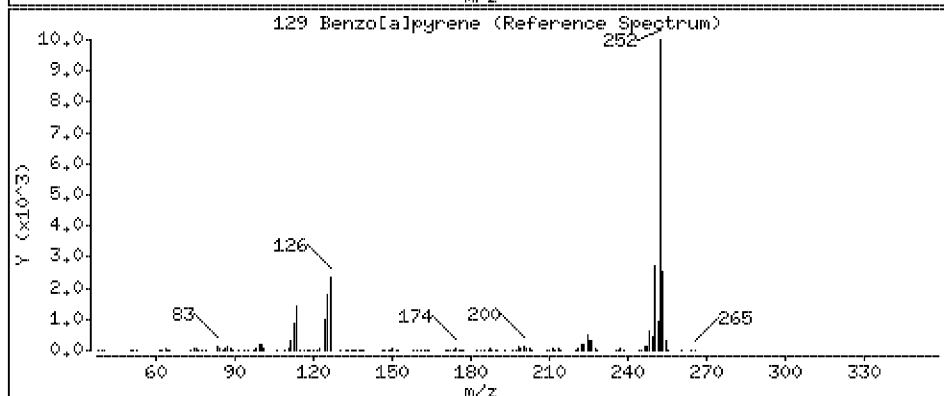
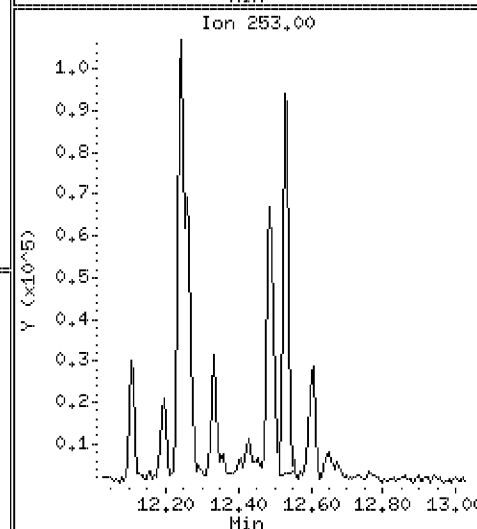
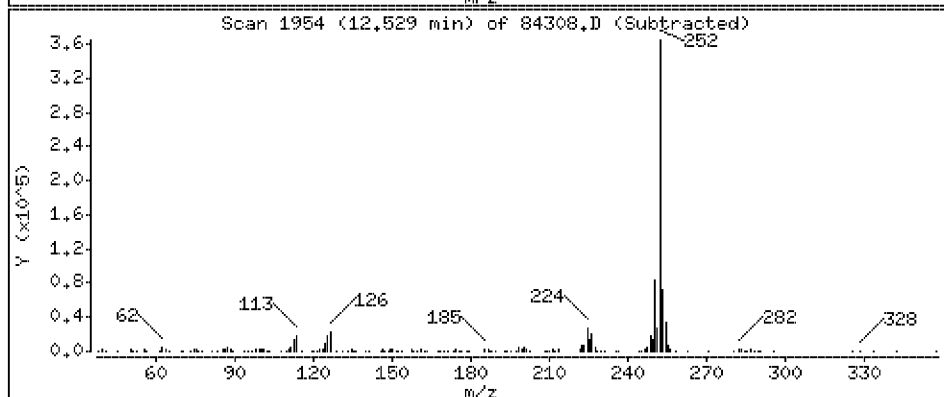
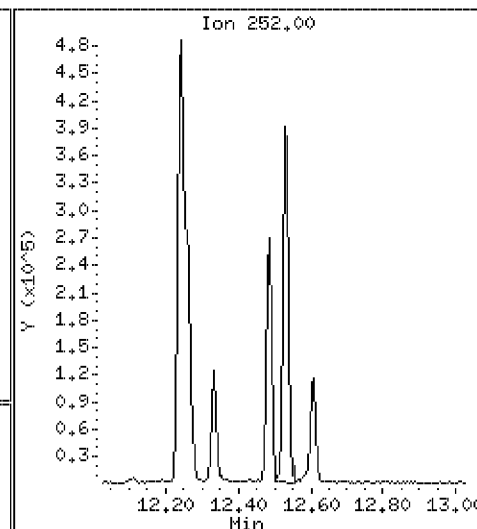
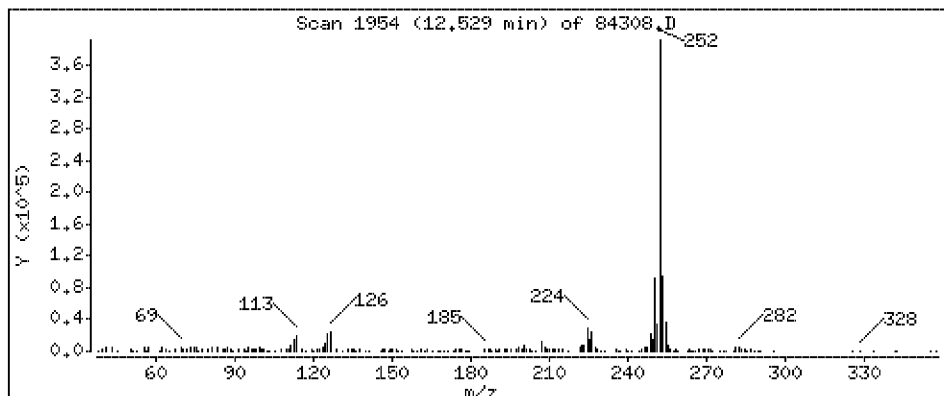
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

129 Benzo[ap]pyrene

Concentration: 397 ug/kg



Date : 04-MAY-2012 15:45

Client ID: EPAFMC-SD-12

Instrument: smsd03.i

Sample Info: SW350584308

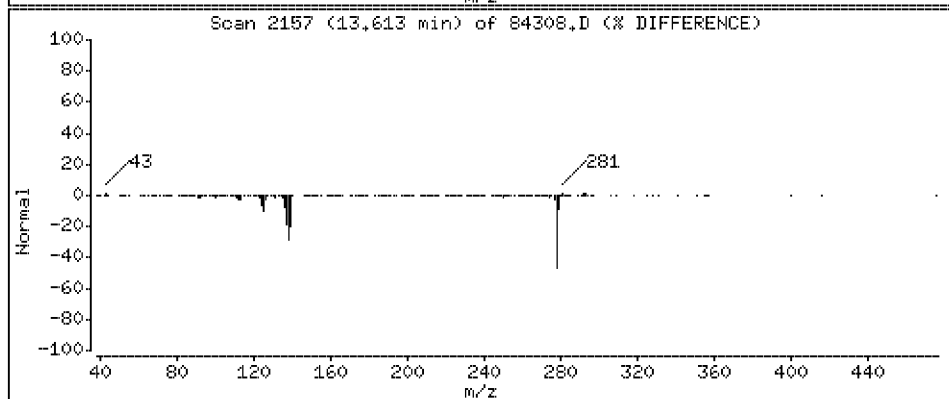
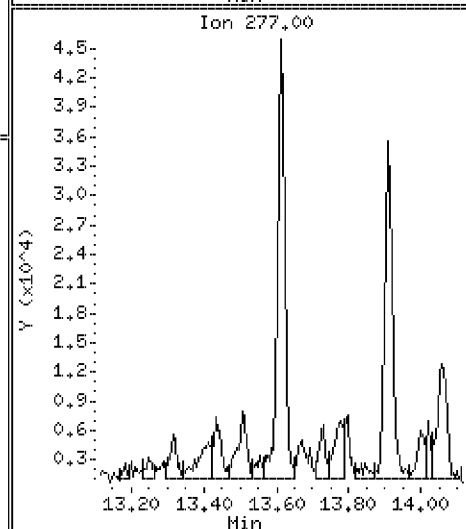
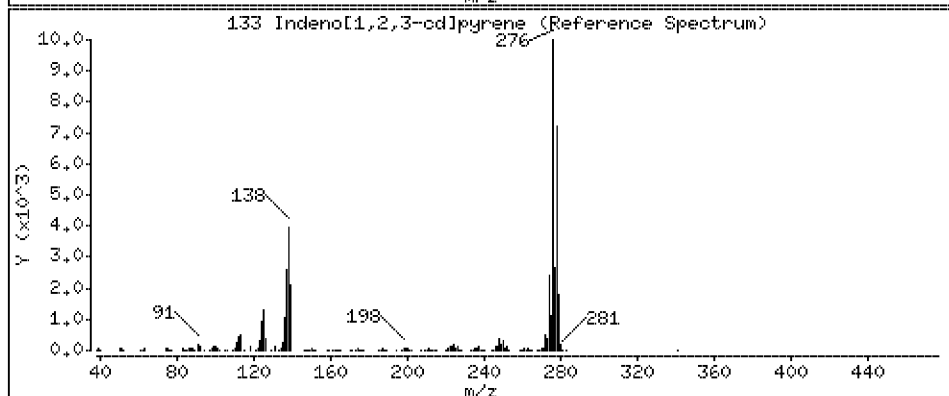
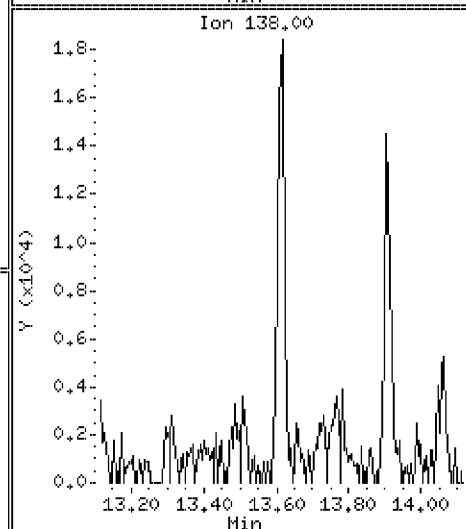
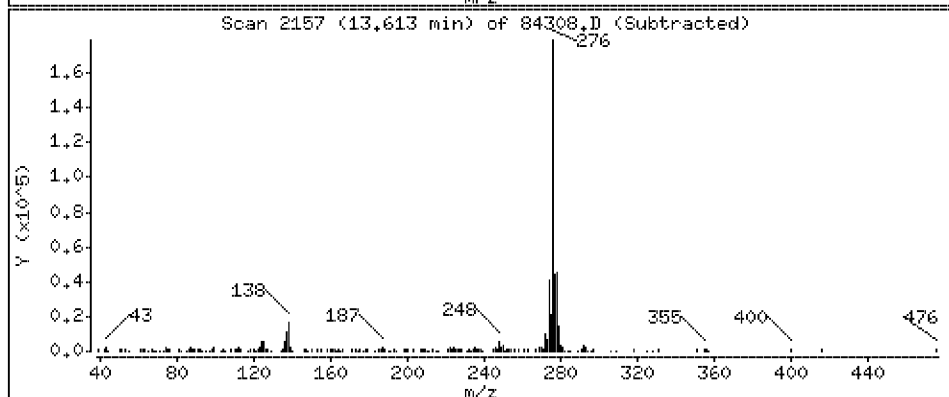
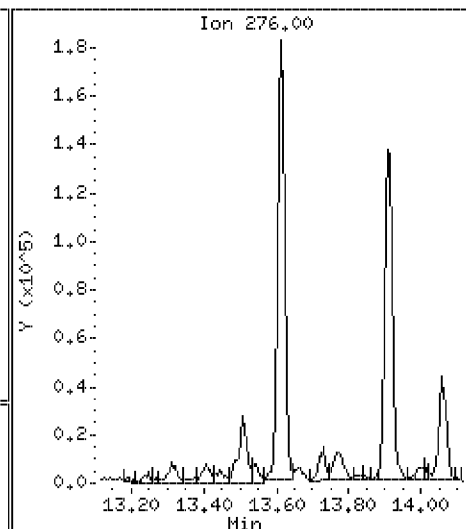
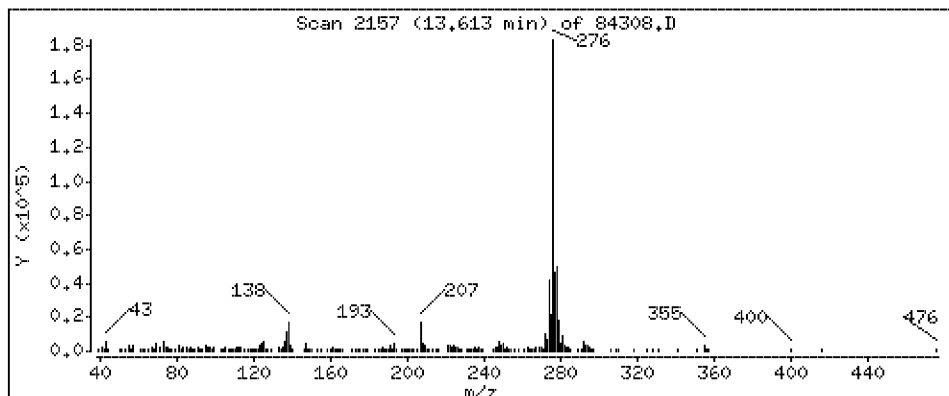
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

133 Indeno[1,2,3-cd]pyrene

Concentration: 192 ug/kg



Date : 04-MAY-2012 15:45

Client ID: EPAFMC-SD-12

Instrument: smsd03.i

Sample Info: SW350584308

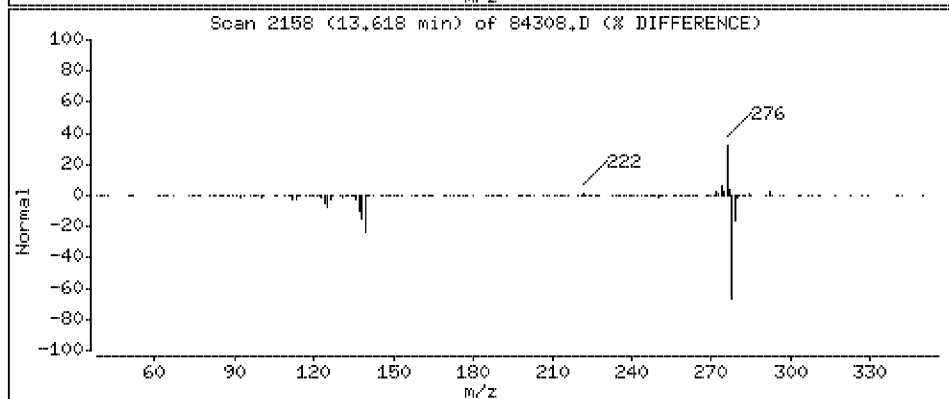
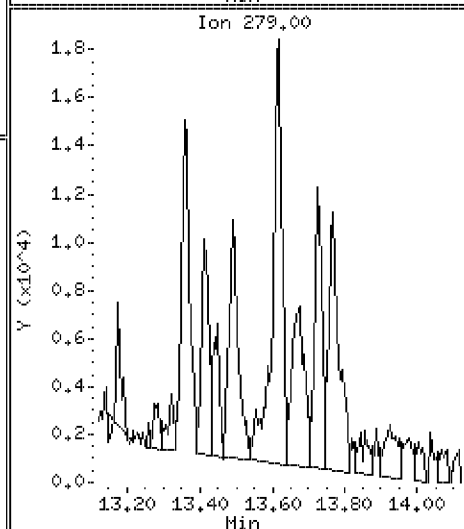
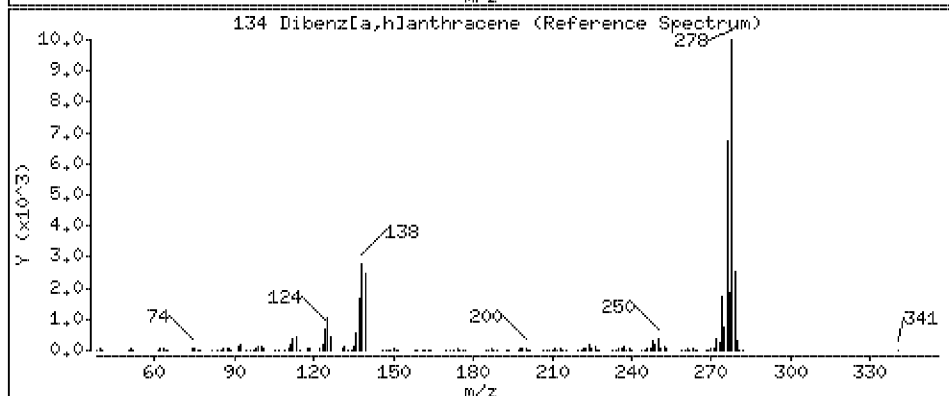
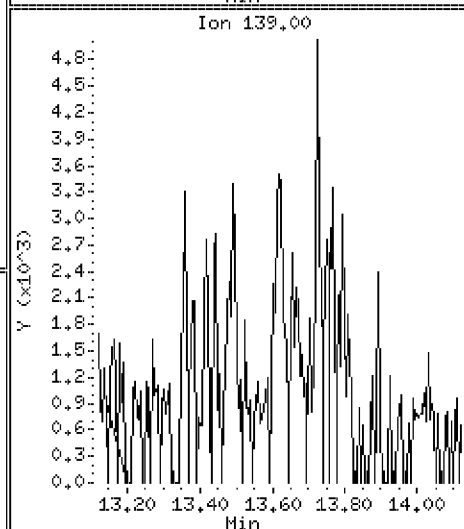
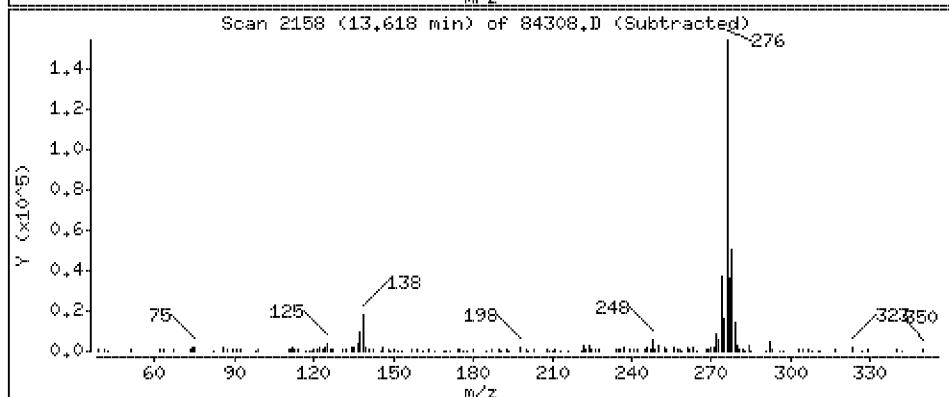
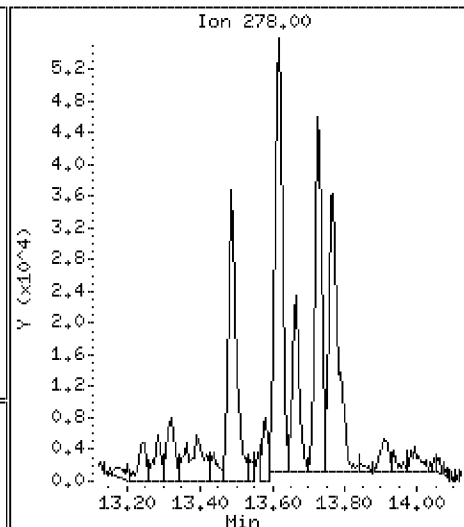
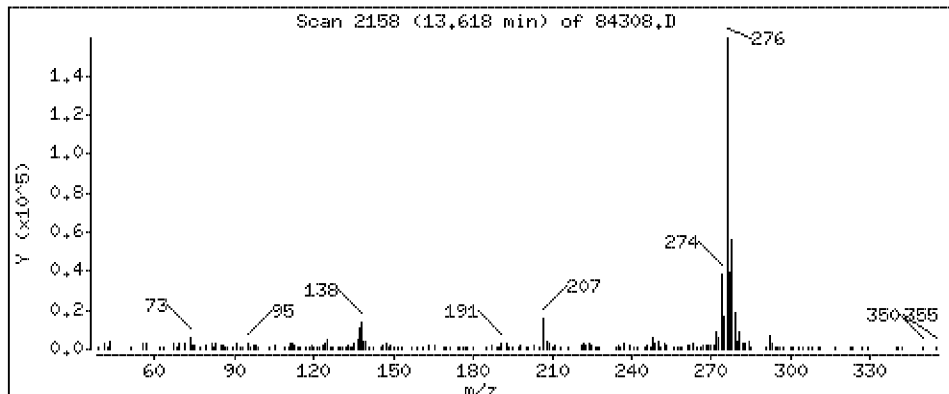
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

134 Dibenz[a,h]anthracene

Concentration: 71.6 ug/kg



Date : 04-MAY-2012 15:45

Client ID: EPAFMC-SD-12

Instrument: smsd03.i

Sample Info: SW350584308

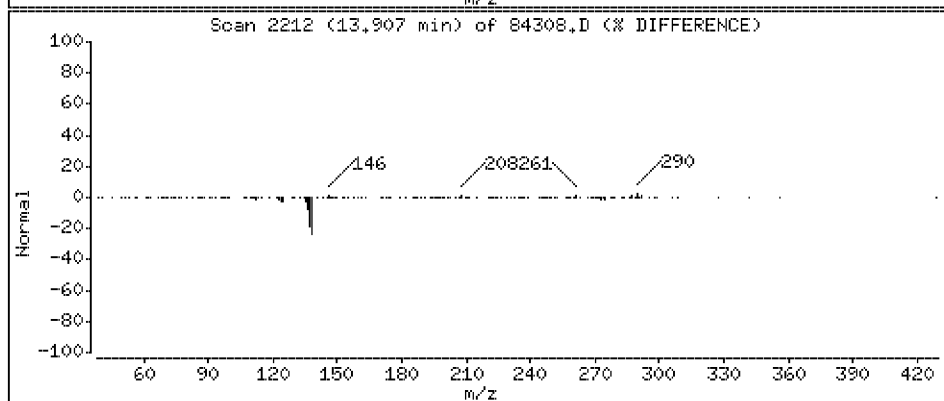
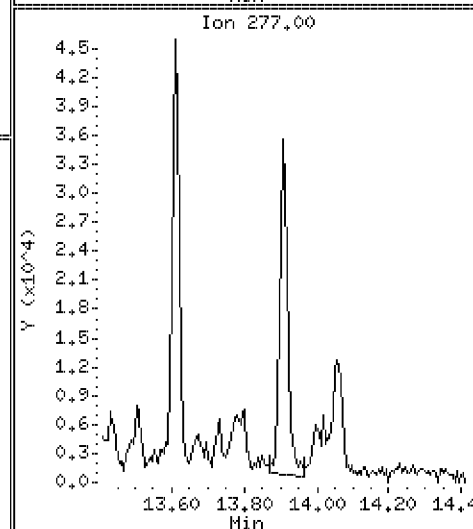
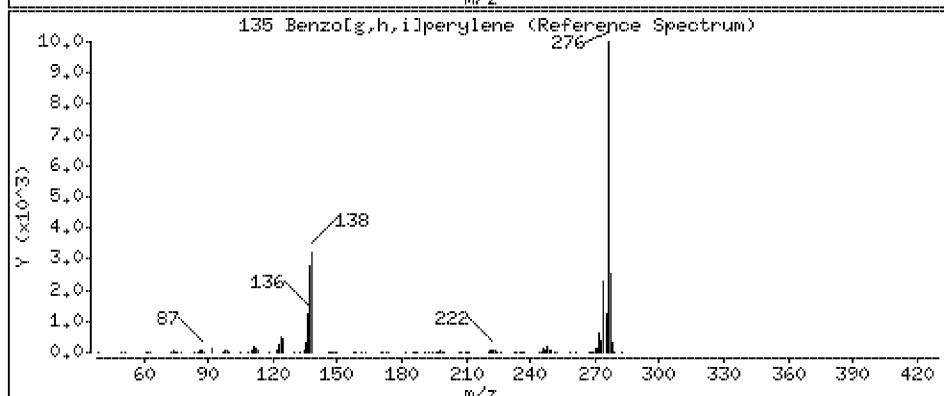
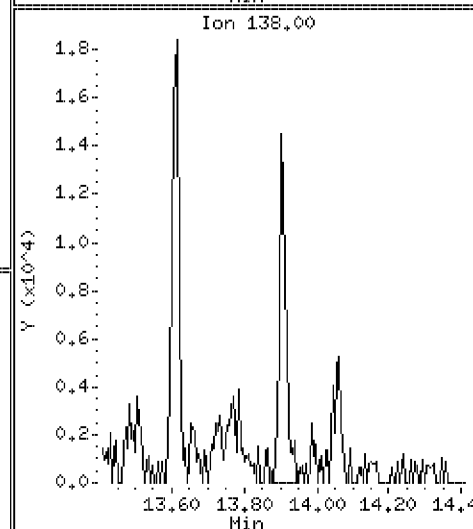
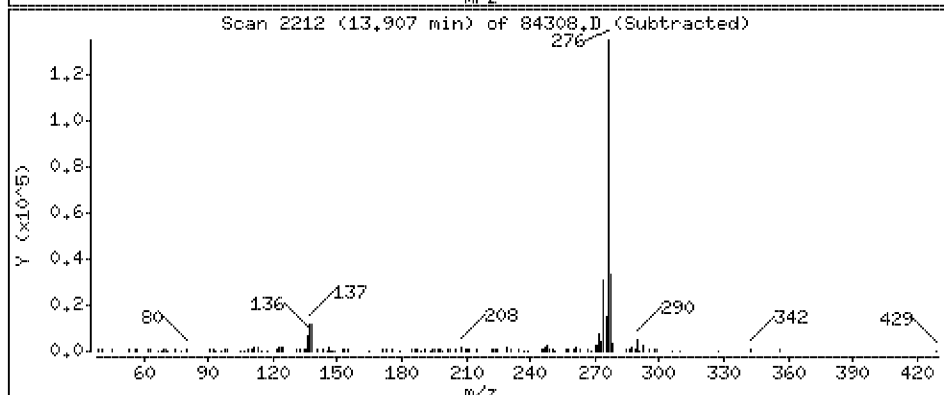
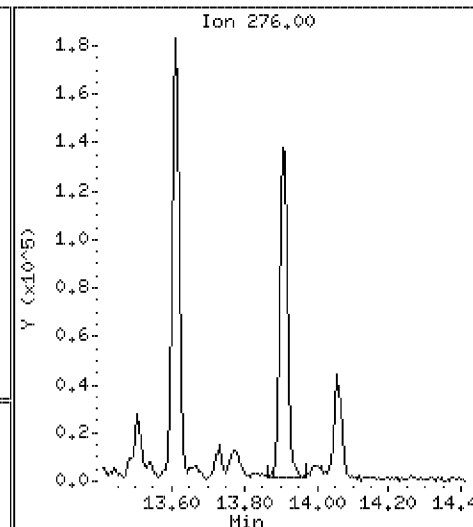
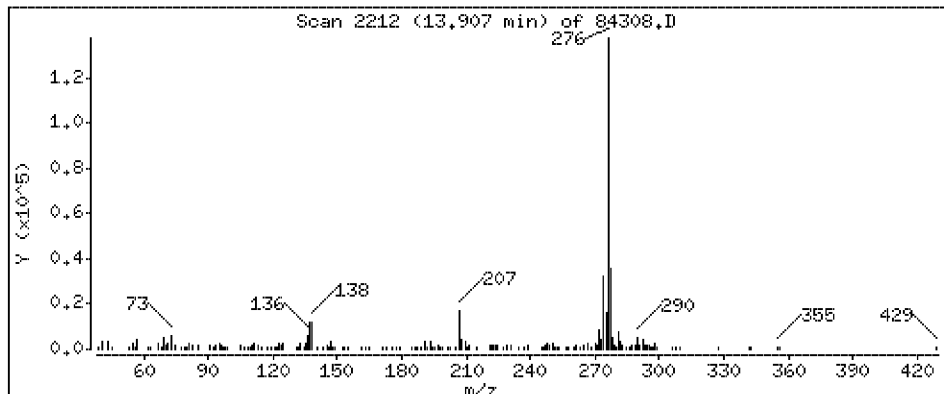
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

135 Benzo[g,h,i]perylene

Concentration: 215 ug/kg



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3050412.b\84309.D
 Lab Smp Id: 350584309 Client Smp ID: EPAFMC-SD-13
 Inj Date : 04-MAY-2012 16:09 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : SW350584309
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3050412.b\8270bcs.m
 Meth Date : 07-May-2012 17:35 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 18:17 Cal File: AP9CAL4.D
 Als bottle: 16
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.220	Weight of sample extracted (g)
M	22.000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.354	4.352 (1.000)		152	265606	40.0000		80.00- 120.00	100.00	
4.353	4.352 (1.000)		115	164038			31.12- 91.12	61.76	
4.354	4.352 (1.000)		150	401090			117.02- 177.02	151.01	

25 Acetophenone CAS #: 98-86-2									
4.707	4.708 (0.854)		105	2418	0.18421	9.4	80.00- 120.00	100.00	
4.712	4.708 (0.854)		77	3093			73.68- 133.68	127.92	
4.708	4.708 (0.854)		51	904			0.00- 57.35	37.39	

* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.515	5.513 (1.000)		136	872509	40.0000		80.00- 120.00	100.00	
5.514	5.513 (1.000)		68	47006			0.00- 35.11	5.39	

* 70 Acenaphthene-d10 CAS #: 15067-26-2									
7.209	7.208 (1.000)		164	632546	40.0000		80.00- 120.00	100.00	
7.209	7.208 (1.000)		162	598545			66.36- 126.36	94.62	
7.209	7.208 (1.000)		160	278184			14.03- 74.03	43.98	

* 100 Phenanthrene-d10 CAS #: 1517-22-2									
8.664	8.665 (1.000)		188	1270593	40.0000		80.00- 120.00	100.00	

CONCENTRATIONS								
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====
* 100 Phenanthrene-d10 (continued)								
8.663	8.665	(1.000)	94	78847			0.00- 36.25	6.21
8.663	8.665	(1.000)	80	90317			0.00- 37.67	7.11

* 121 Chrysene-d12					CAS #: 1719-03-5			
11.262	11.259	(1.000)	240	1710717	40.0000		80.00- 120.00	100.00
11.261	11.259	(1.000)	120	91362			0.00- 34.90	5.34
11.262	11.259	(1.000)	236	449930			0.00- 56.56	26.30

* 130 Perylene-d12					CAS #: 1520-96-3			
12.588	12.576	(1.000)	264	1702239	40.0000		80.00- 120.00	100.00
12.588	12.576	(1.000)	260	403643			0.00- 54.67	23.71
12.588	12.576	(1.000)	265	397884			0.00- 53.09	23.37

Date : 04-MAY-2012 16:09

Client ID: EPAFMC-SD-13

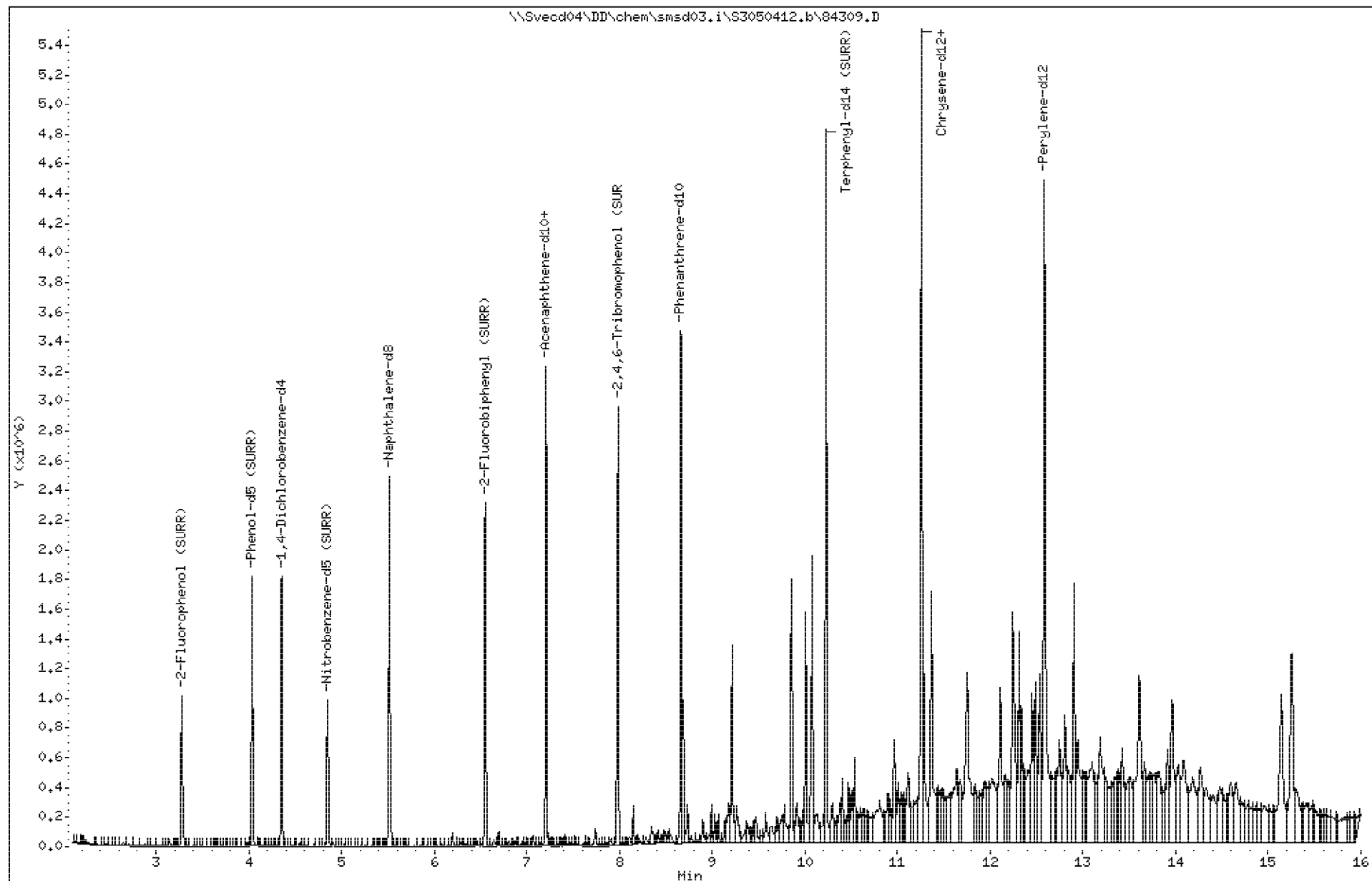
Sample Info: SH350584309

Instrument: smsd03.i

Operator: PEL

Column diameter: 0.25

Column phase: HPMS-5



Date : 04-MAY-2012 16:09

Client ID: EPAFMC-SD-13

Instrument: smsd03.i

Sample Info: SW350584309

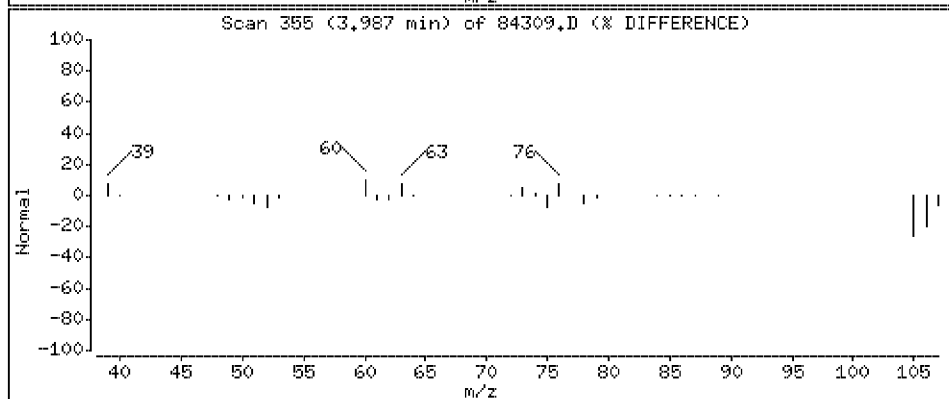
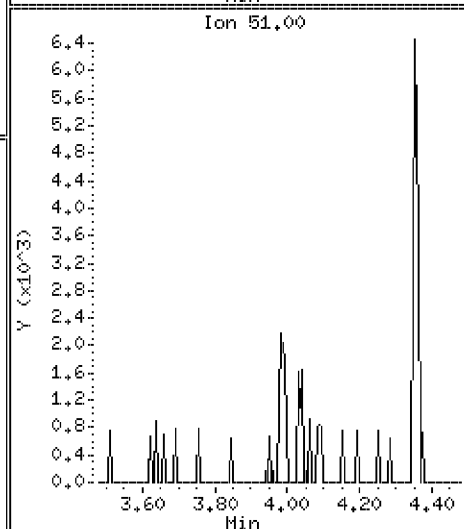
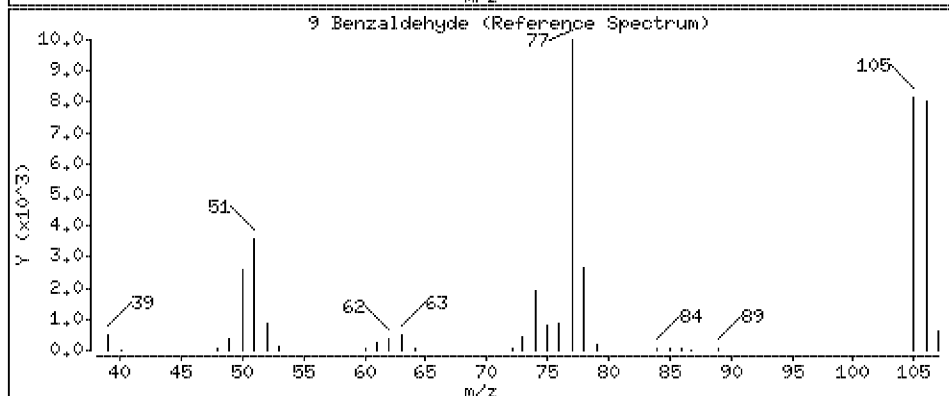
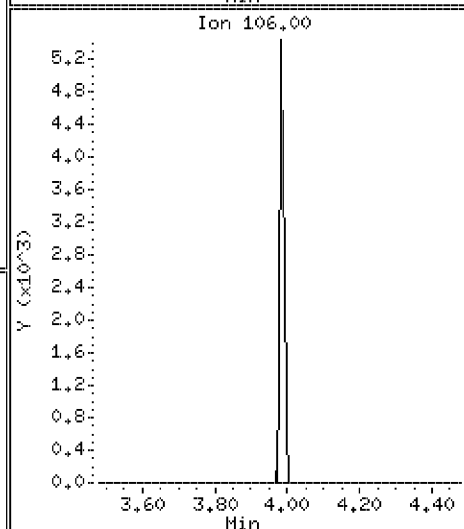
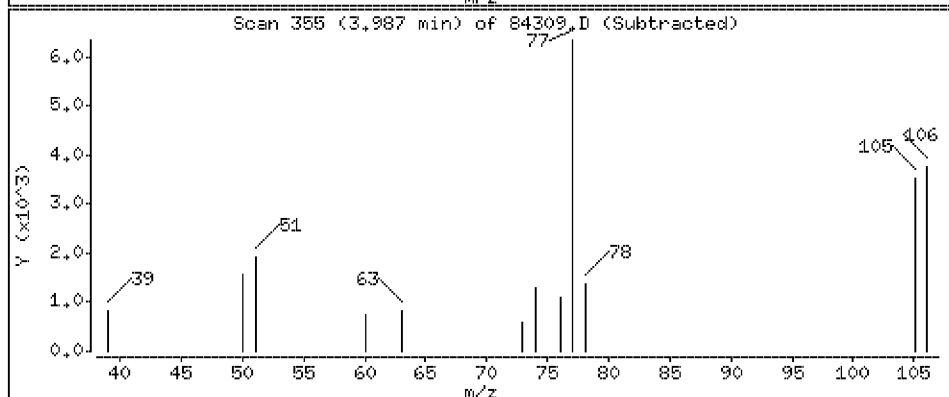
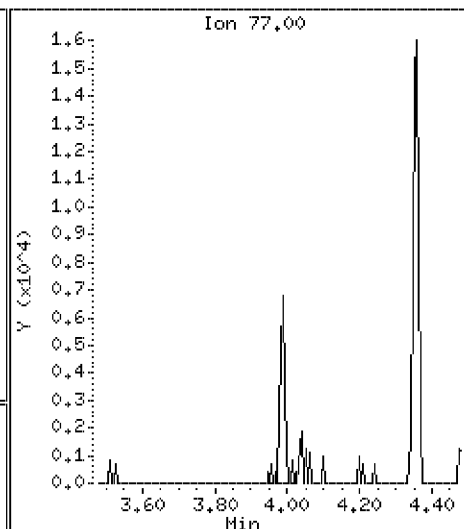
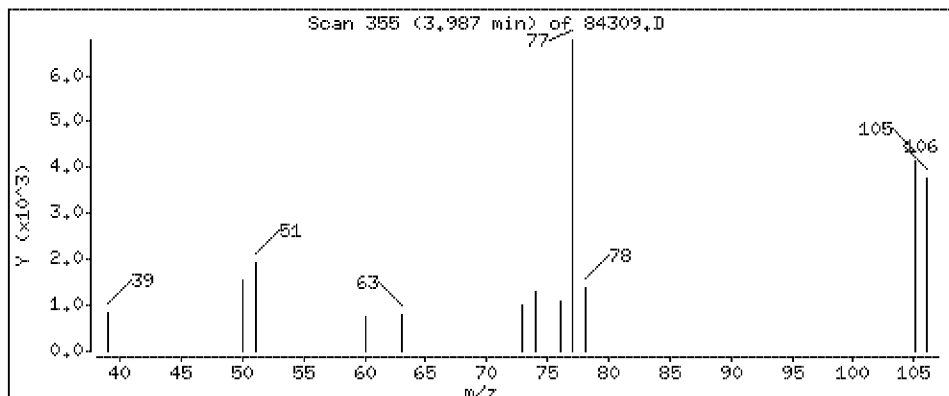
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

9 Benzaldehyde

Concentration: 37.3 ug/kg



Date : 04-MAY-2012 16:09

Client ID: EPAFMC-SD-13

Instrument: smsd03.i

Sample Info: SW350584309

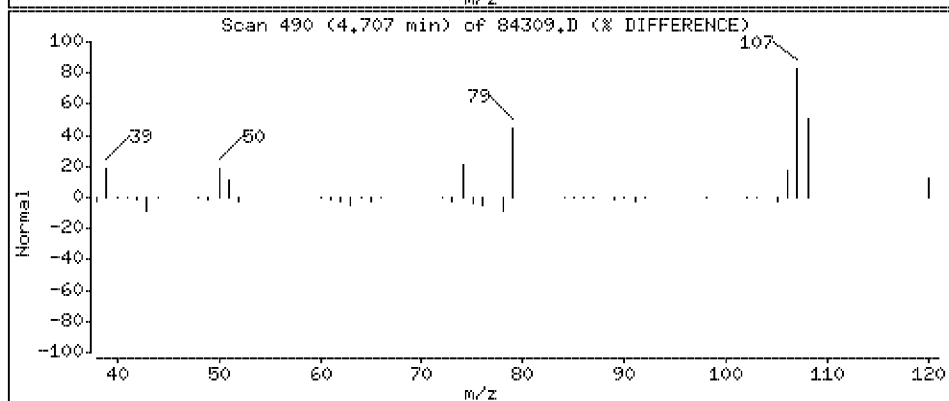
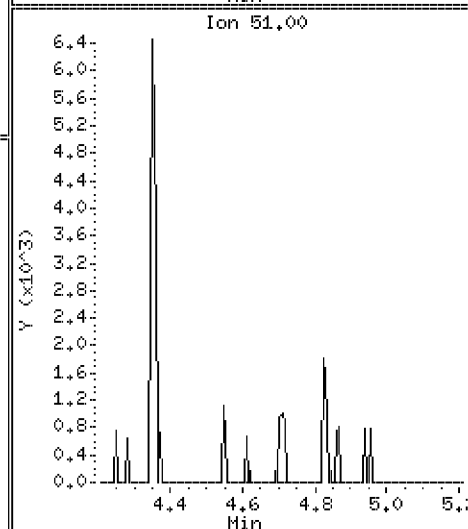
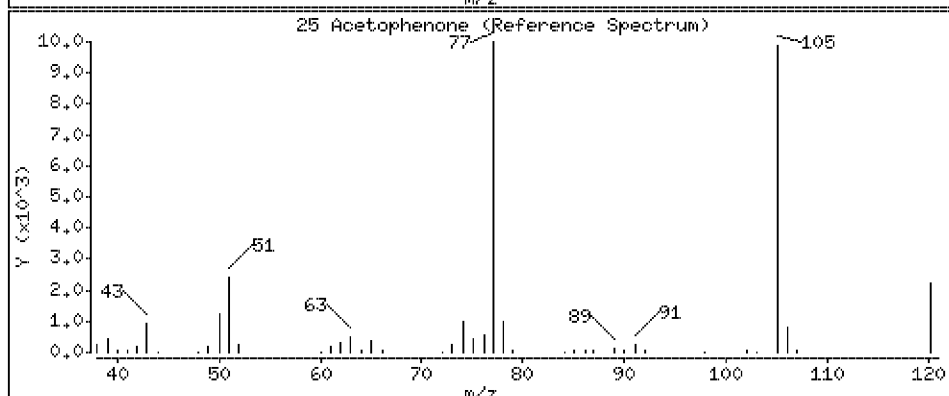
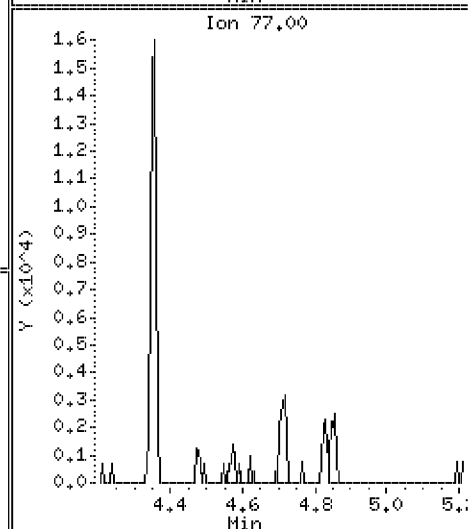
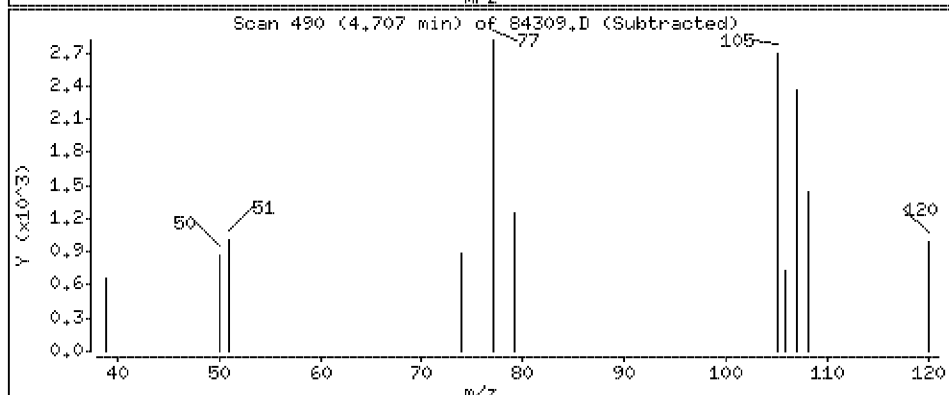
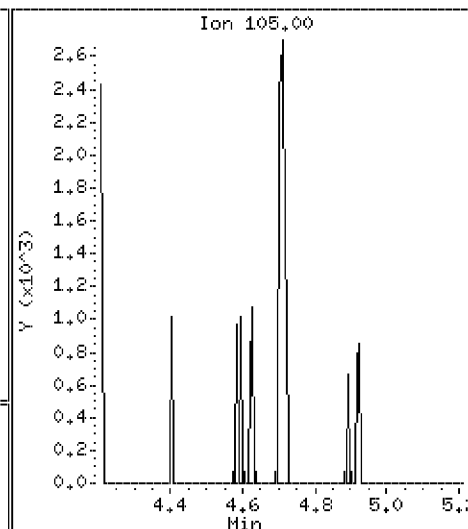
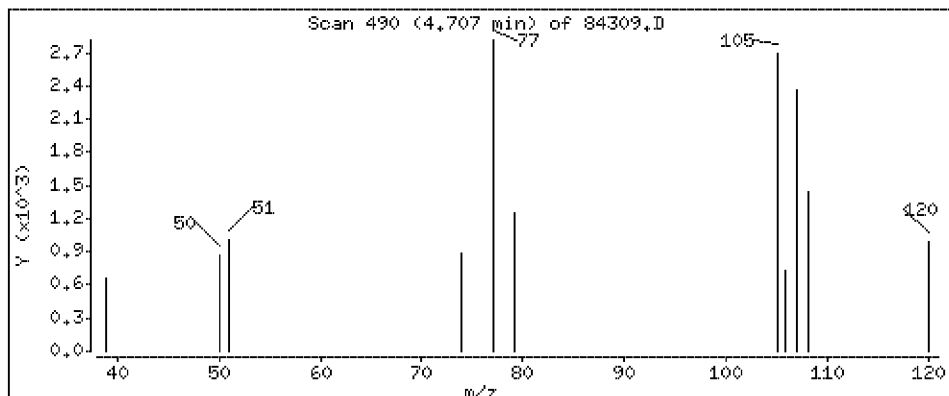
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

25 Acetophenone

Concentration: 9.4 ug/kg



Date : 04-MAY-2012 16:09

Client ID: EPAFMC-SD-13

Instrument: smsd03.i

Sample Info: SW350584309

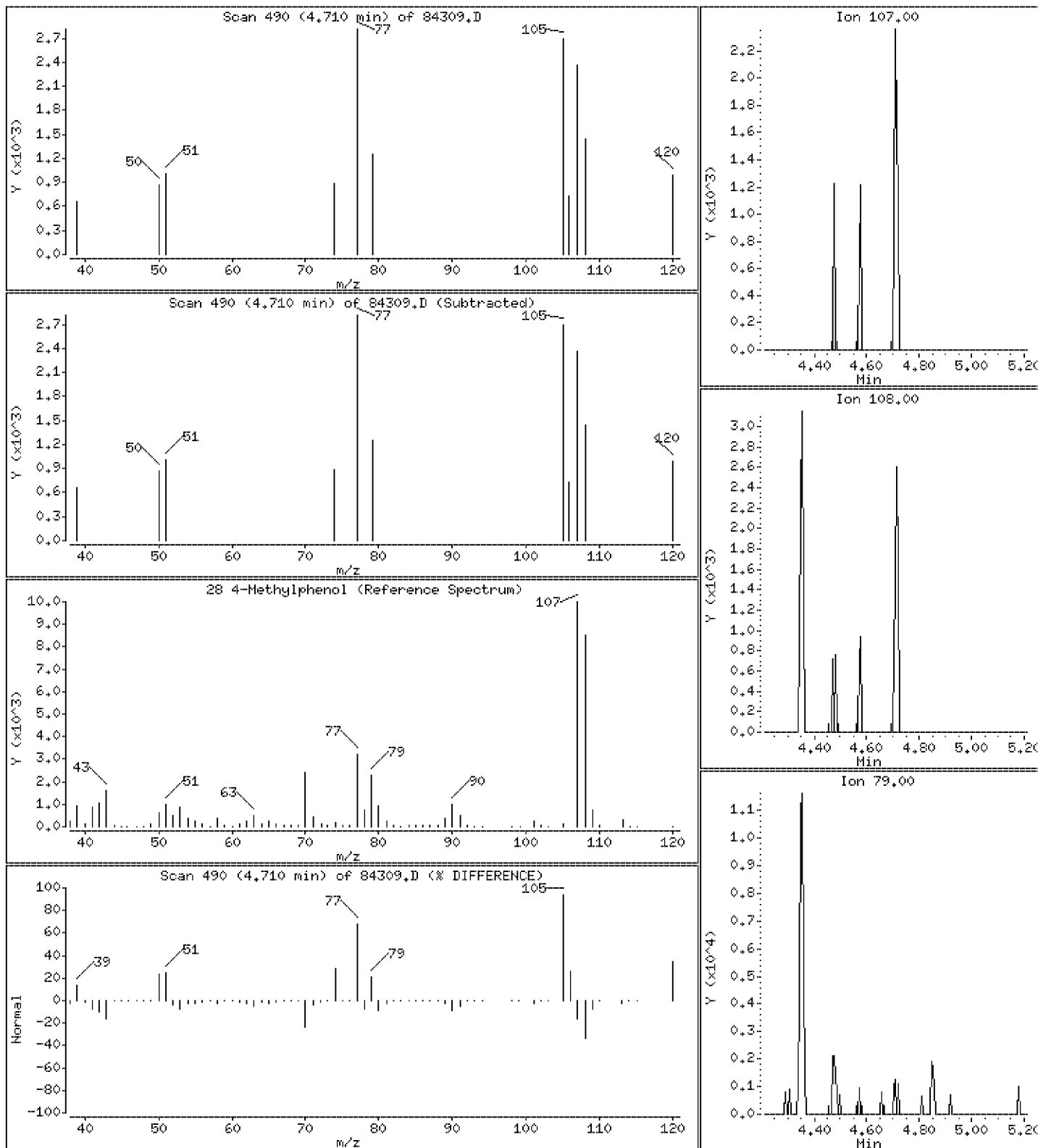
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

28 4-Methylphenol

Concentration: 9.7 ug/kg



Date : 04-MAY-2012 16:09

Client ID: EPAFMC-SD-13

Instrument: smsd03.i

Sample Info: SW350584309

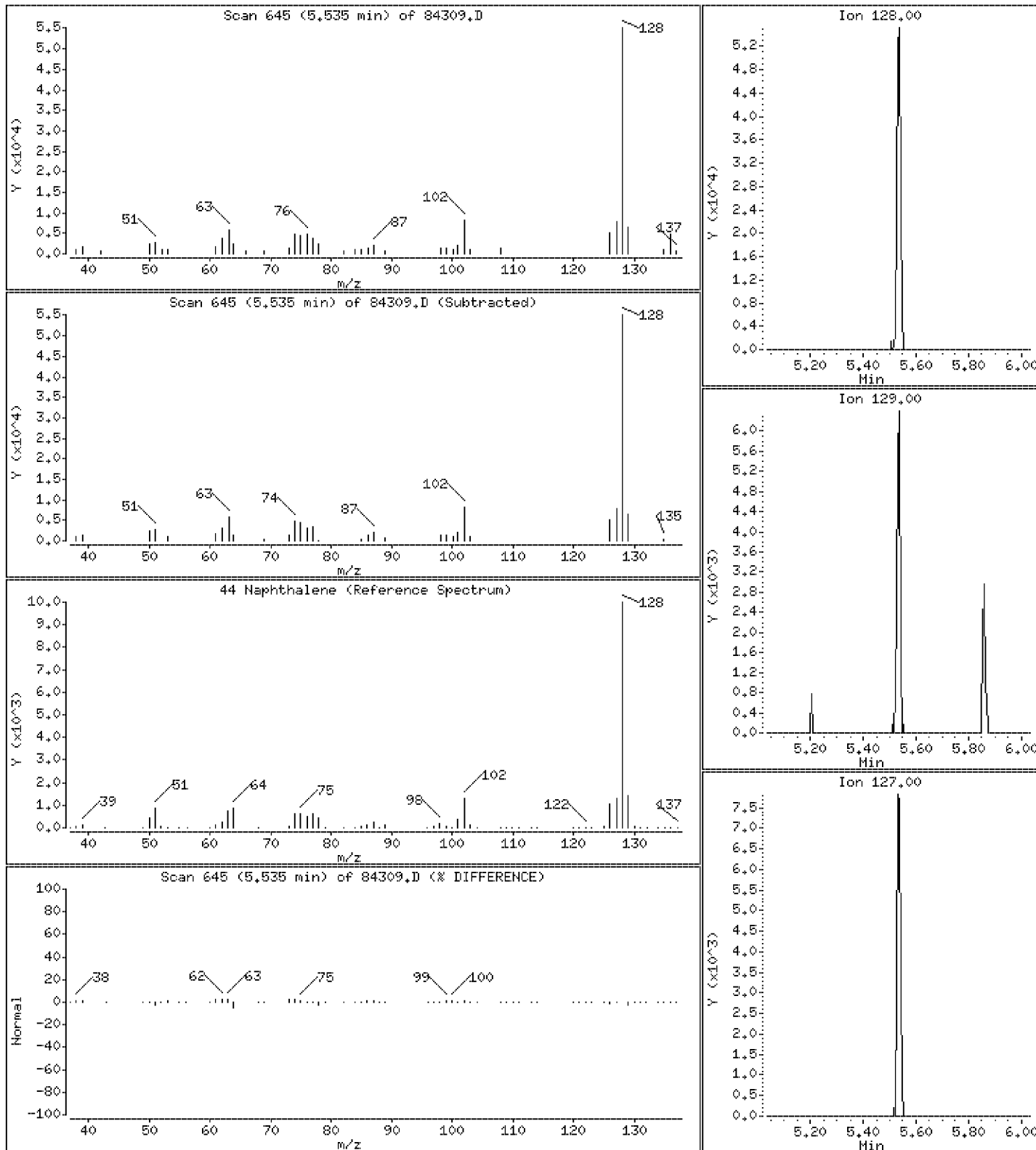
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

44 Naphthalene

Concentration: 121 ug/kg



Date : 04-MAY-2012 16:09

Client ID: EPAFMC-SD-13

Instrument: smsd03.i

Sample Info: SW350584309

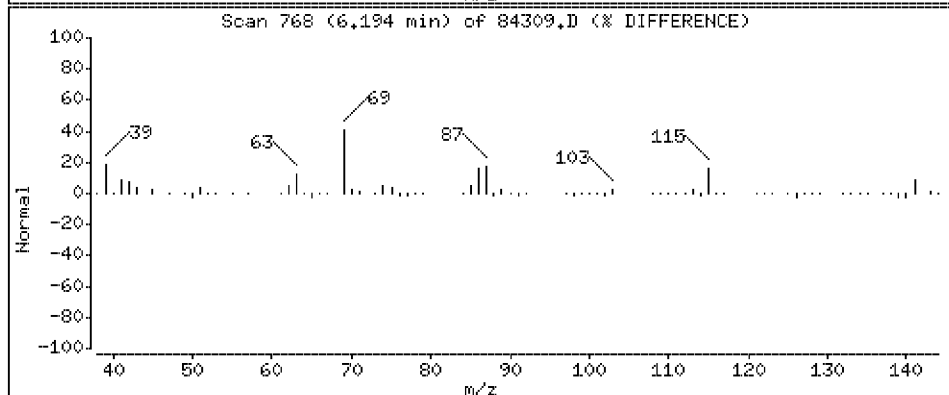
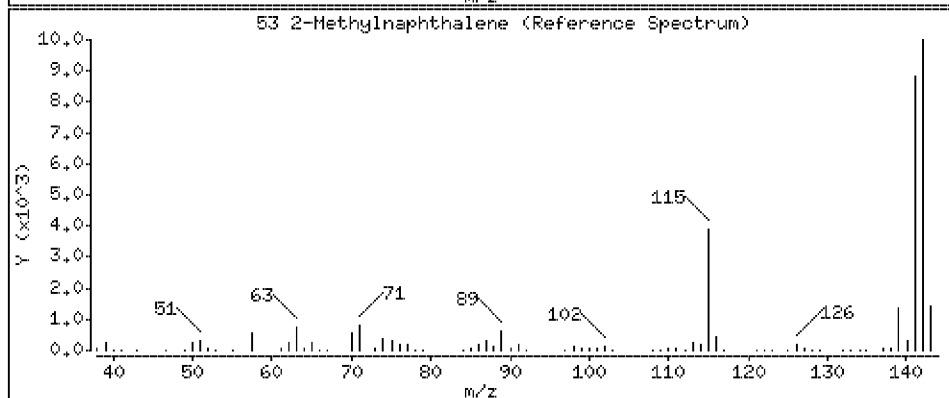
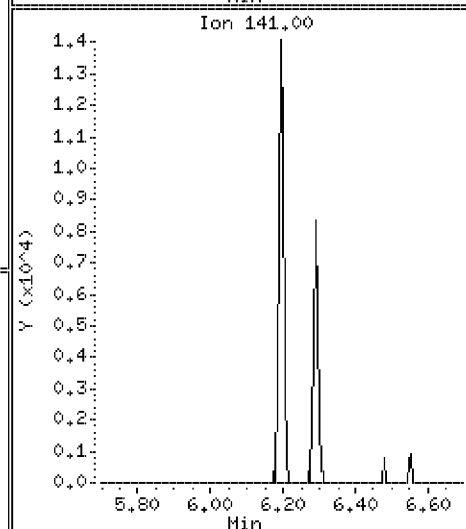
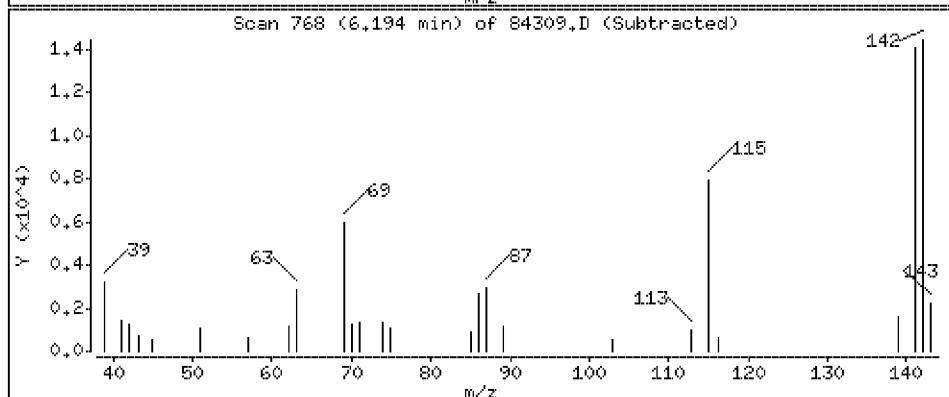
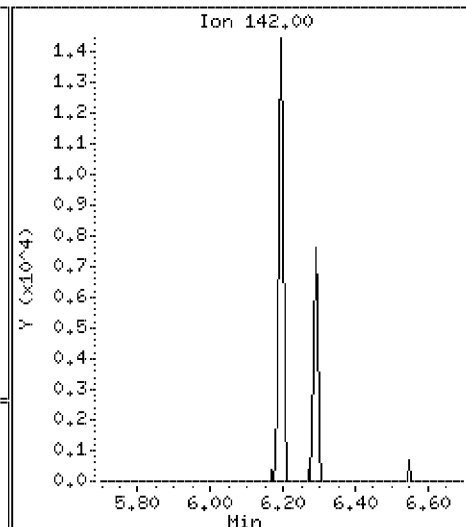
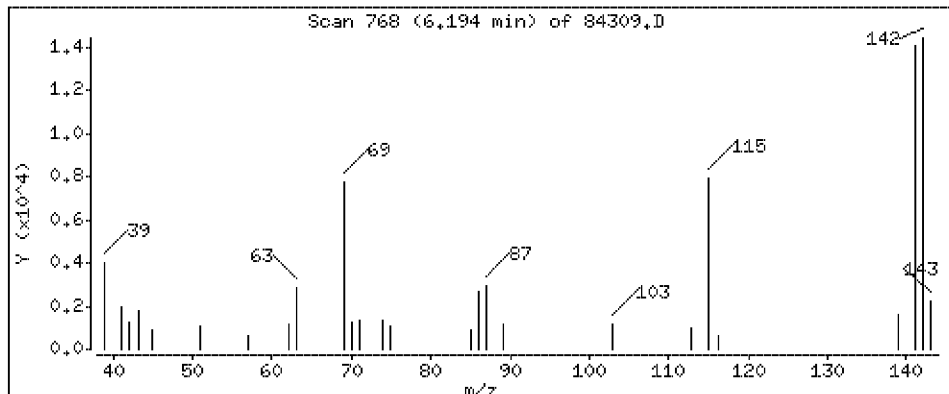
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

53 2-Methylnaphthalene

Concentration: 41.2 ug/kg



Date : 04-MAY-2012 16:09

Client ID: EPAFMC-SD-13

Instrument: smsd03.i

Sample Info: SW350584309

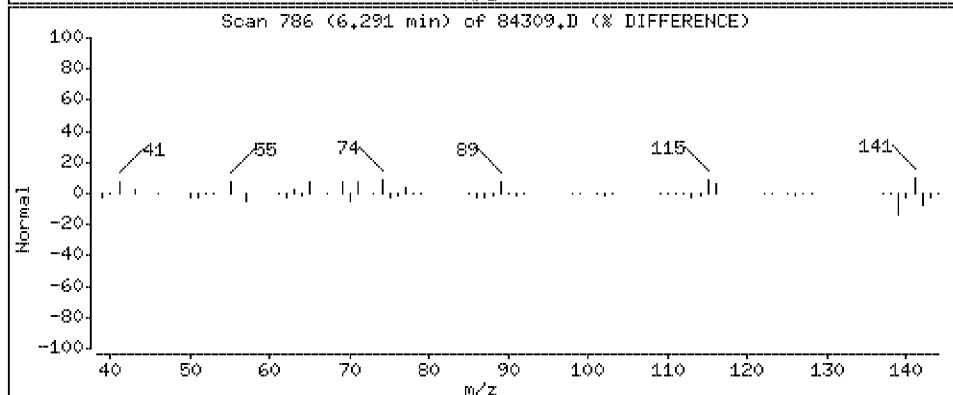
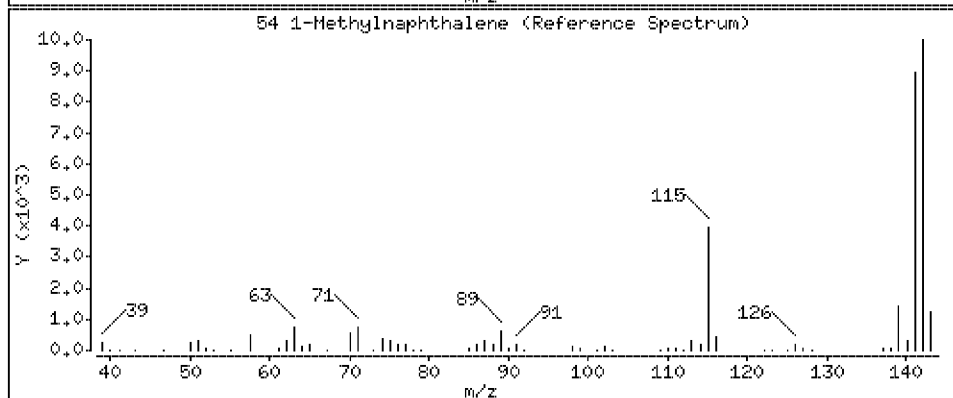
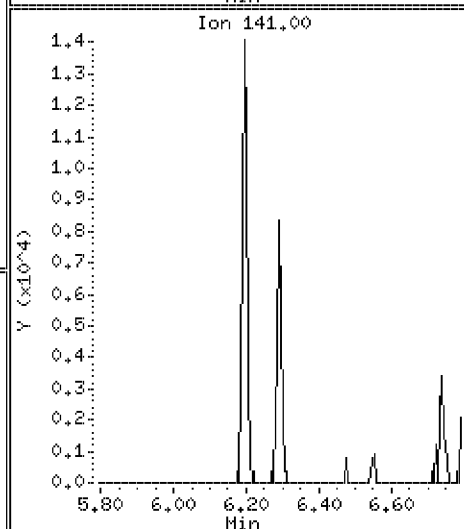
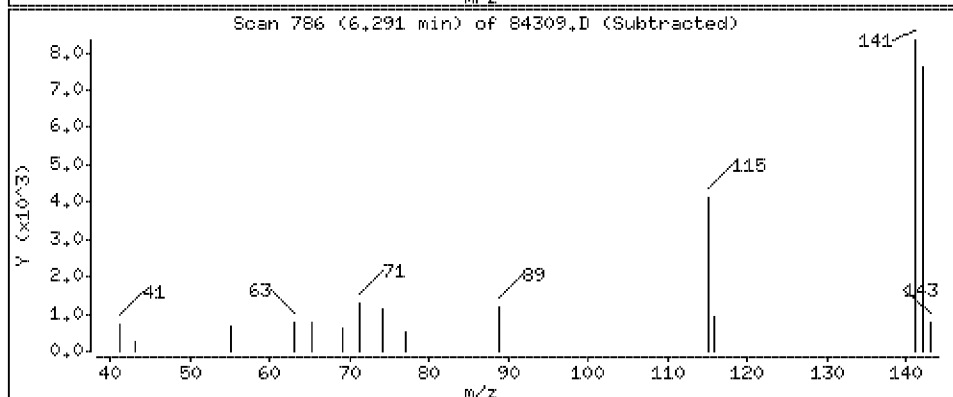
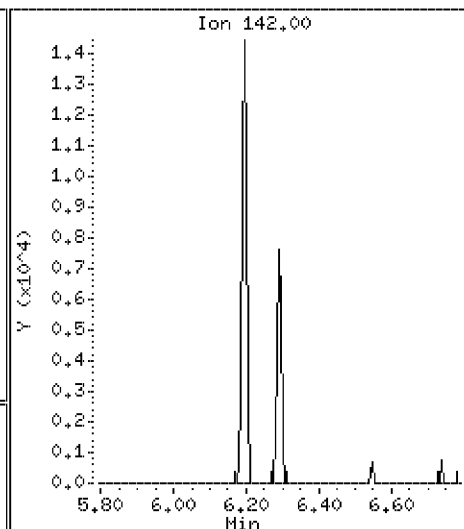
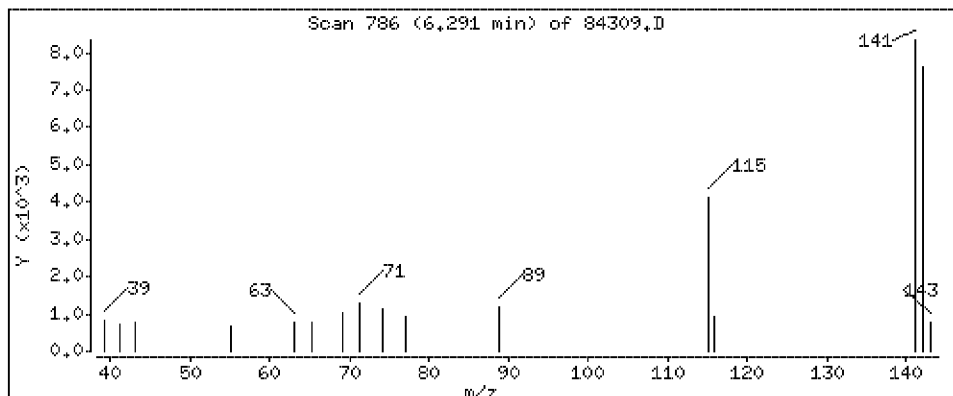
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

54 1-Methylnaphthalene

Concentration: 22.5 ug/kg



Date : 04-MAY-2012 16:09

Client ID: EPAFMC-SD-13

Instrument: smsd03.i

Sample Info: SW350584309

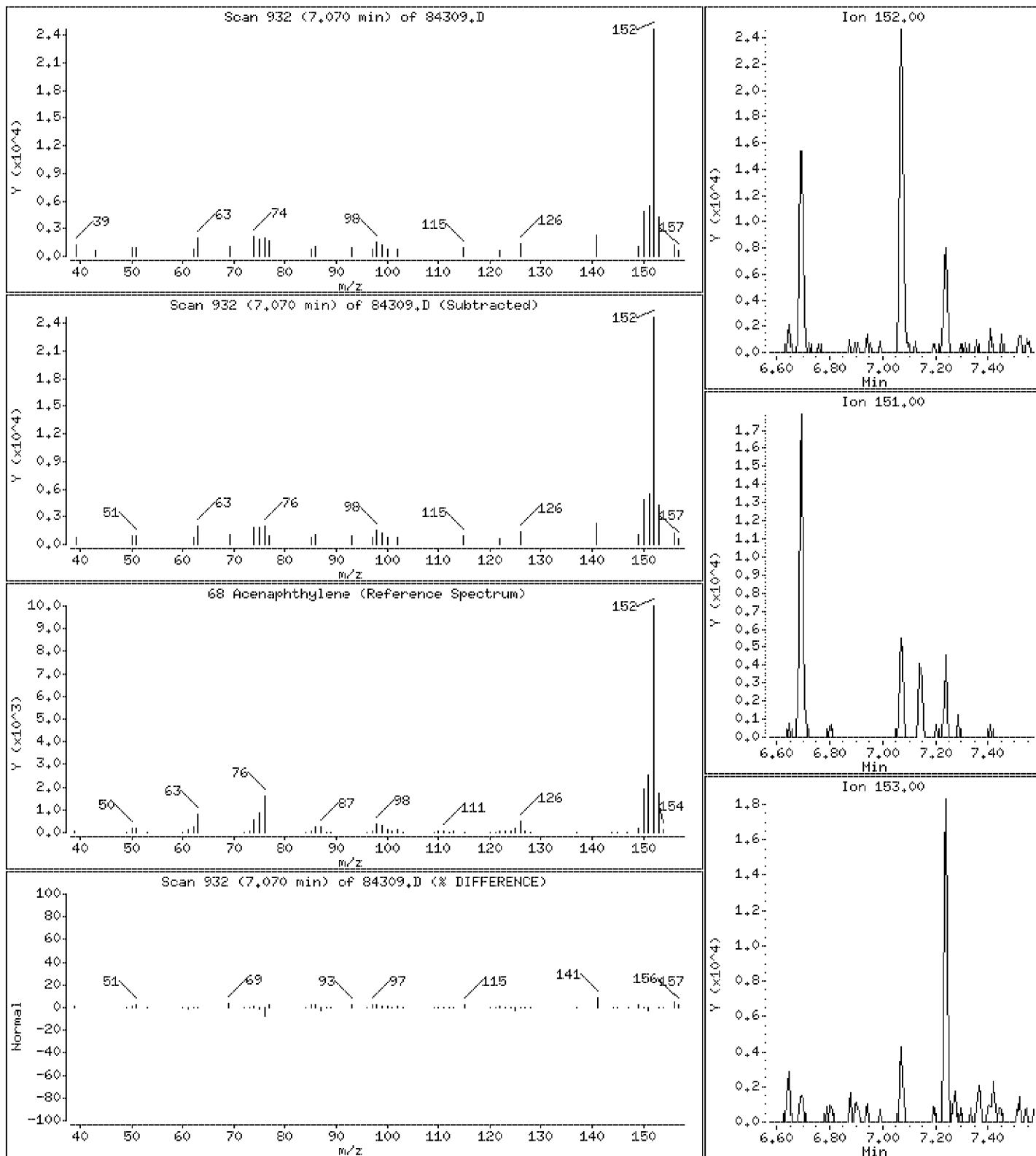
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

68 Acenaphthylene

Concentration: 47.1 ug/kg



Date : 04-MAY-2012 16:09

Client ID: EPAFMC-SD-13

Instrument: smsd03.i

Sample Info: SW350584309

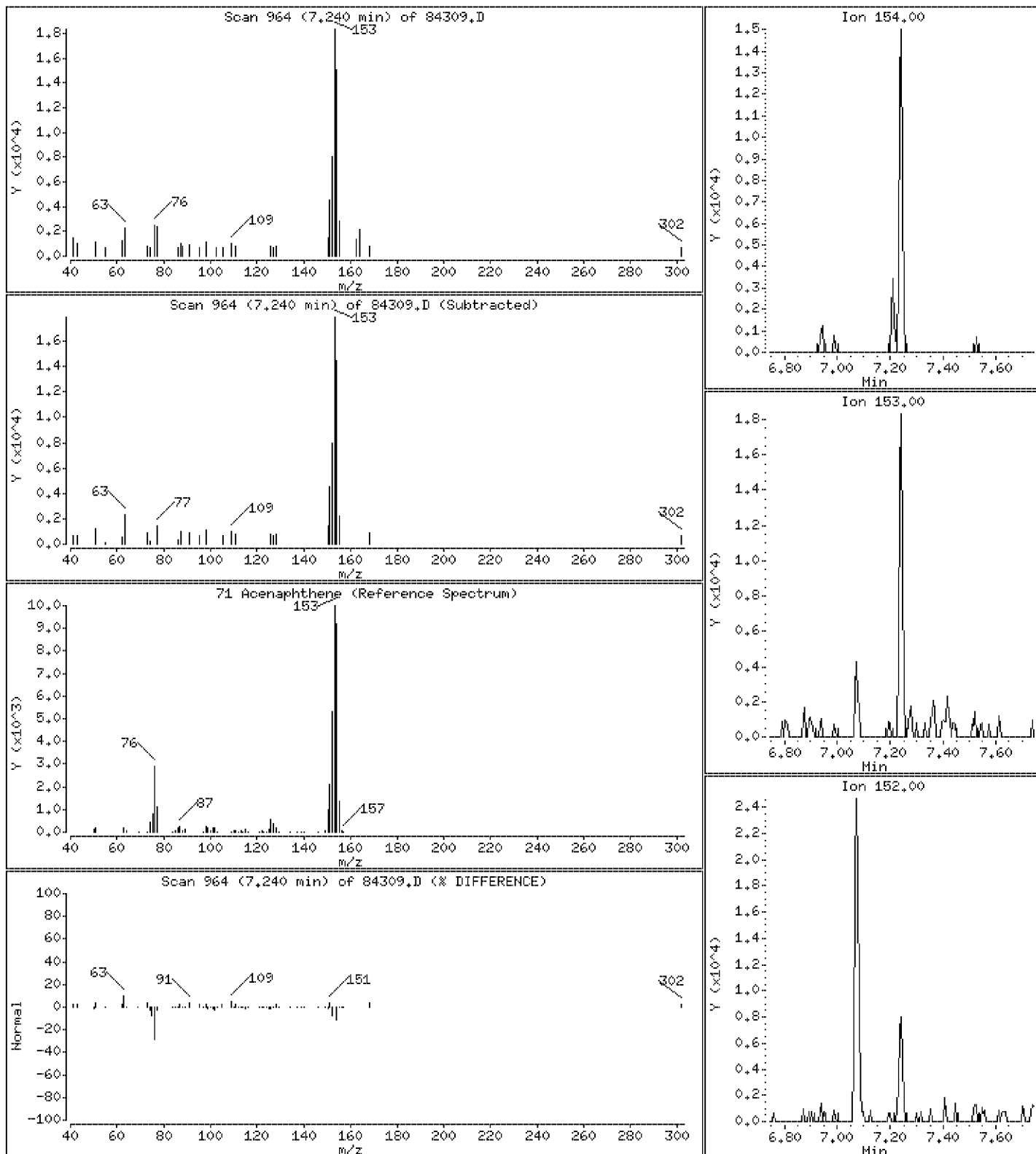
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

71 Acenaphthene

Concentration: 39.7 ug/kg



Date : 04-MAY-2012 16:09

Client ID: EPAFMC-SD-13

Instrument: smsd03.i

Sample Info: SW350584309

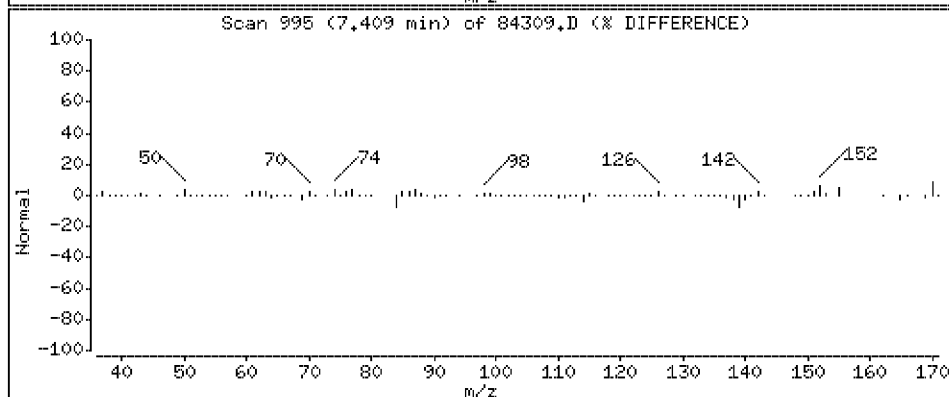
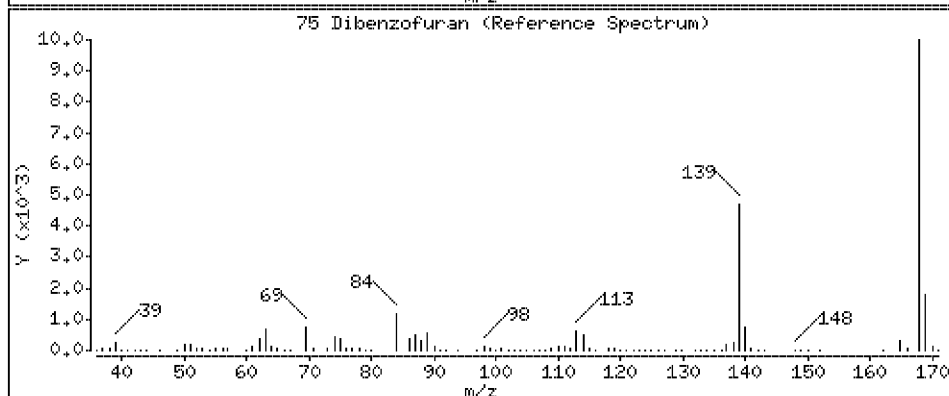
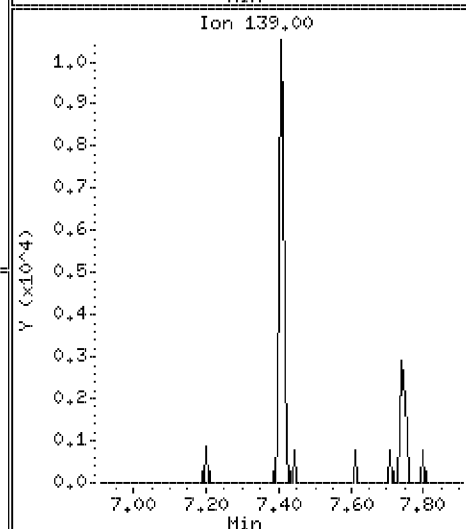
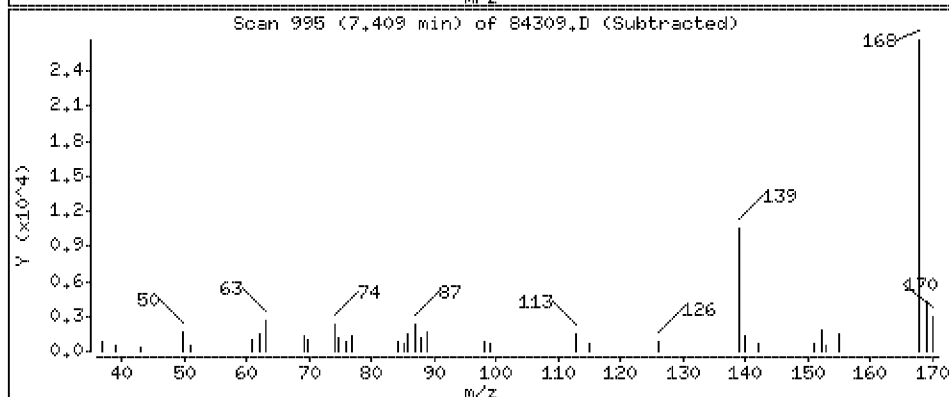
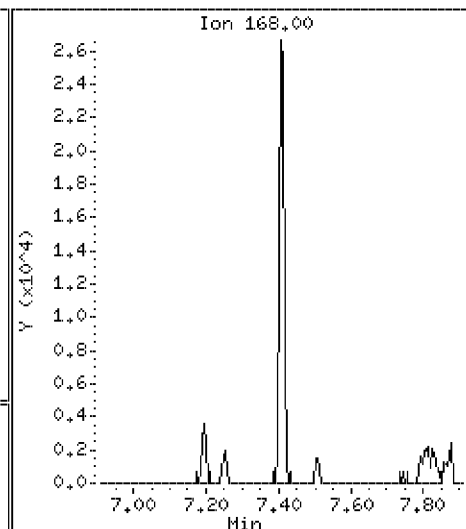
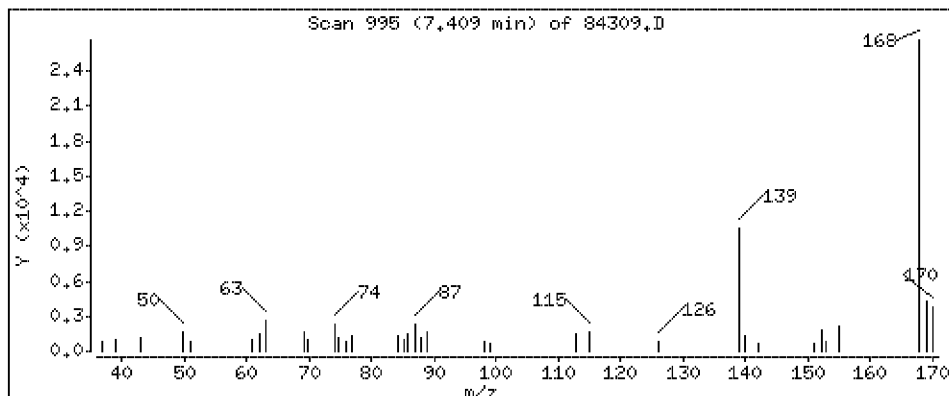
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

75 Dibenzofuran

Concentration: 46.3 ug/kg



Date : 04-MAY-2012 16:09

Client ID: EPAFMC-SD-13

Instrument: smsd03.i

Sample Info: SW350584309

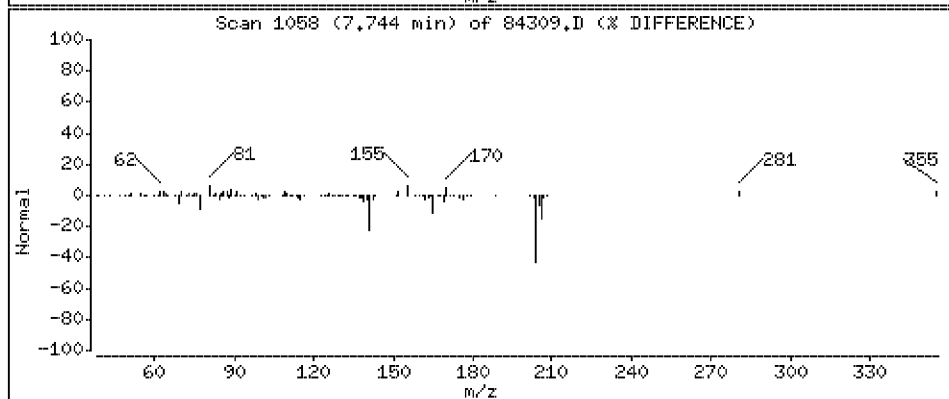
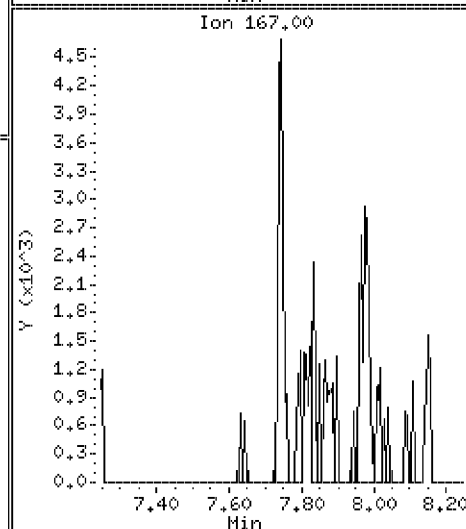
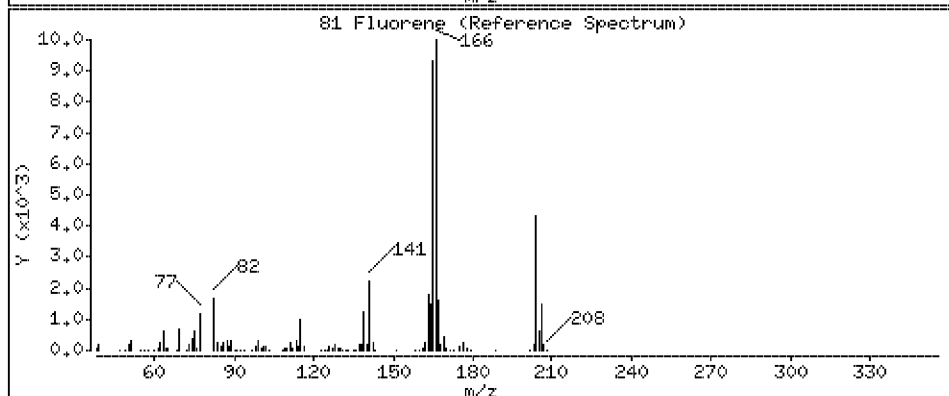
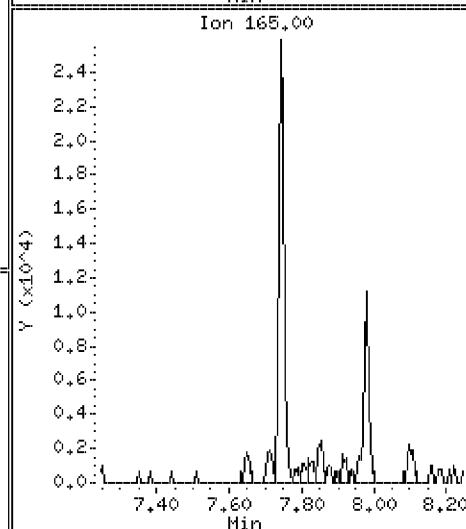
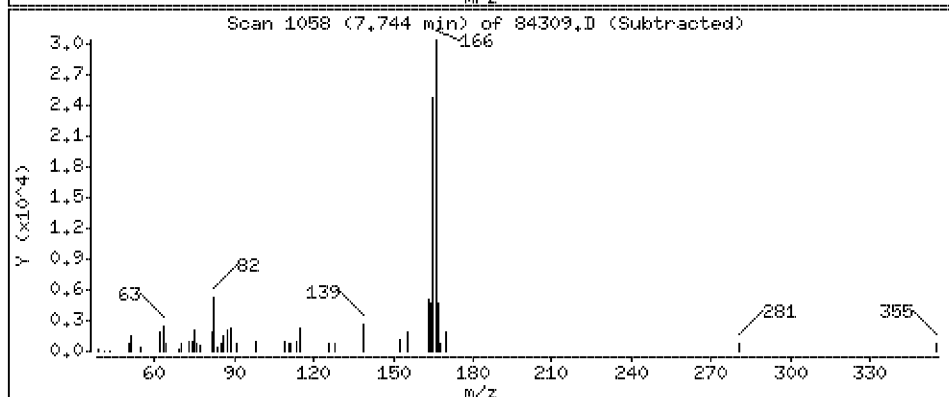
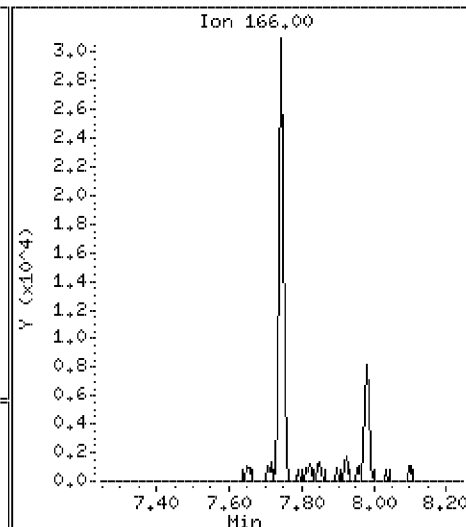
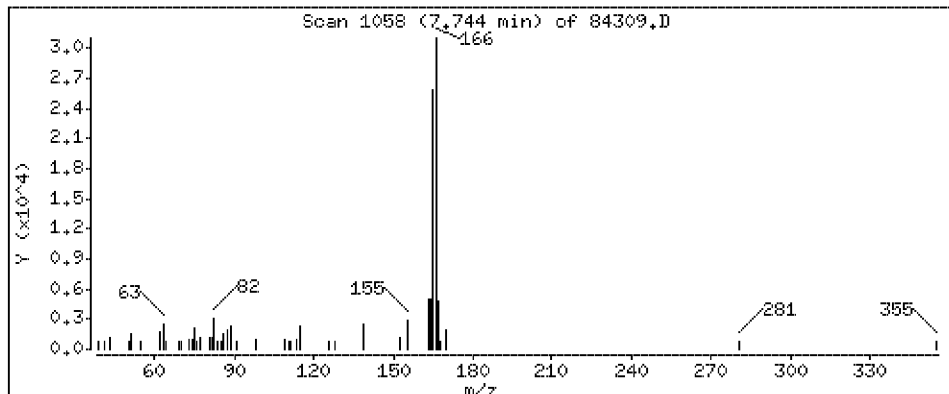
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

81 Fluorene

Concentration: 58.9 ug/kg



Date : 04-MAY-2012 16:09

Client ID: EPAFMC-SD-13

Instrument: smsd03.i

Sample Info: SW350584309

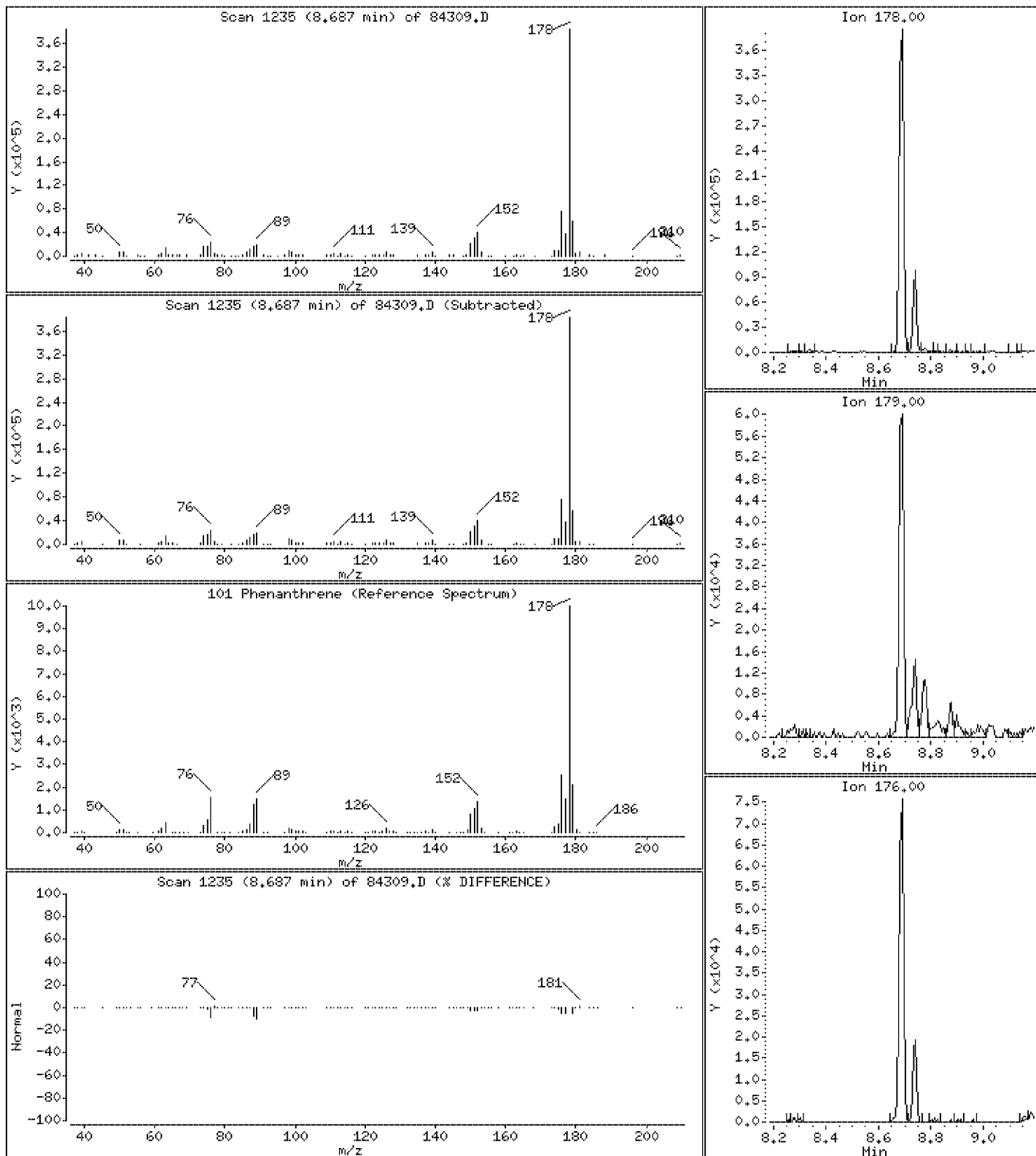
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

101 Phenanthrene

Concentration: 534 ug/kg



Date : 04-MAY-2012 16:09

Client ID: EPAFMC-SD-13

Instrument: smsd03.i

Sample Info: SW350584309

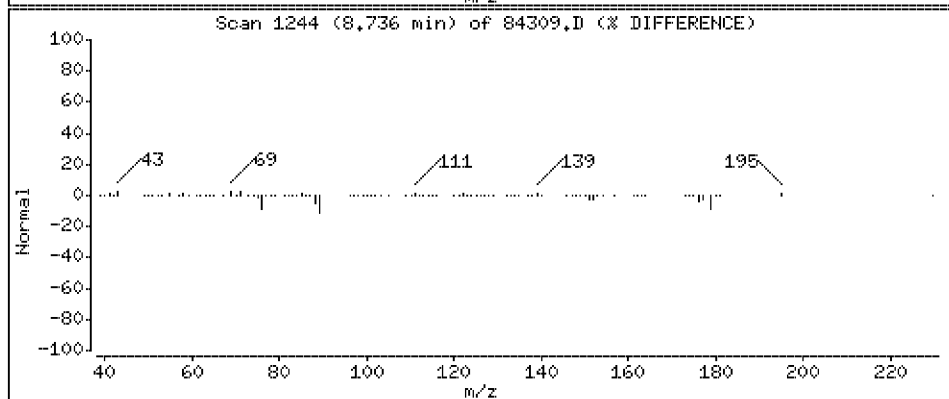
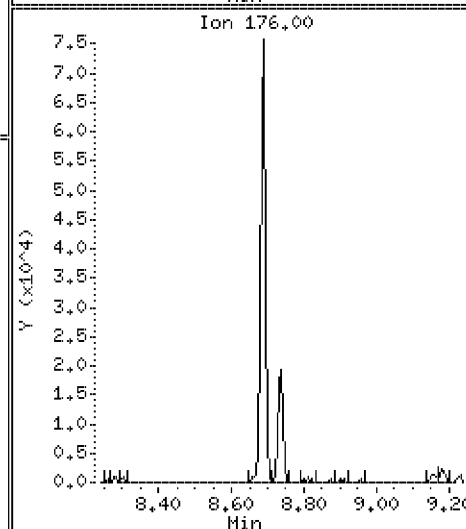
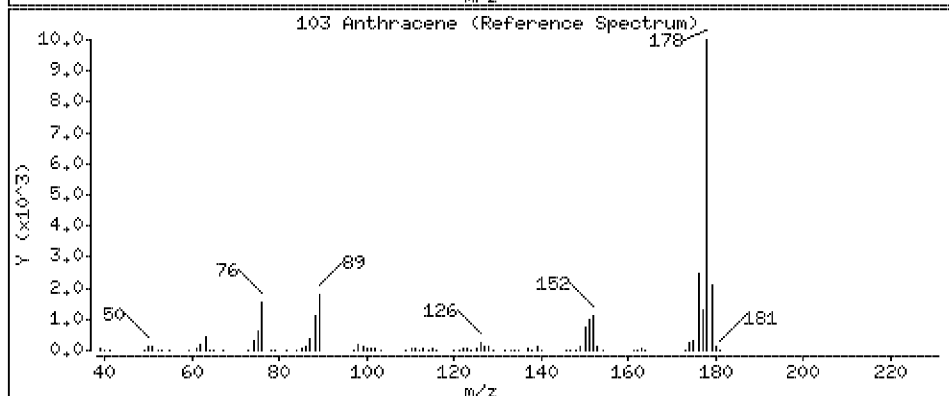
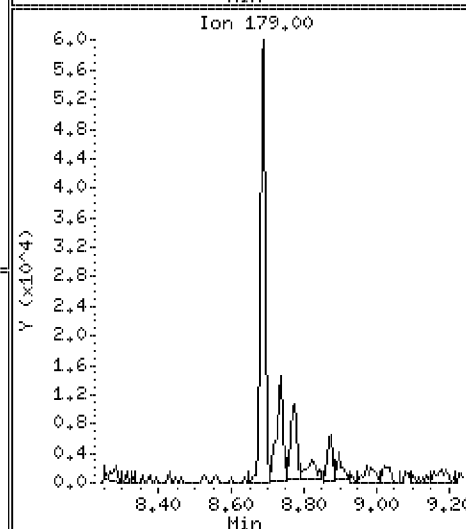
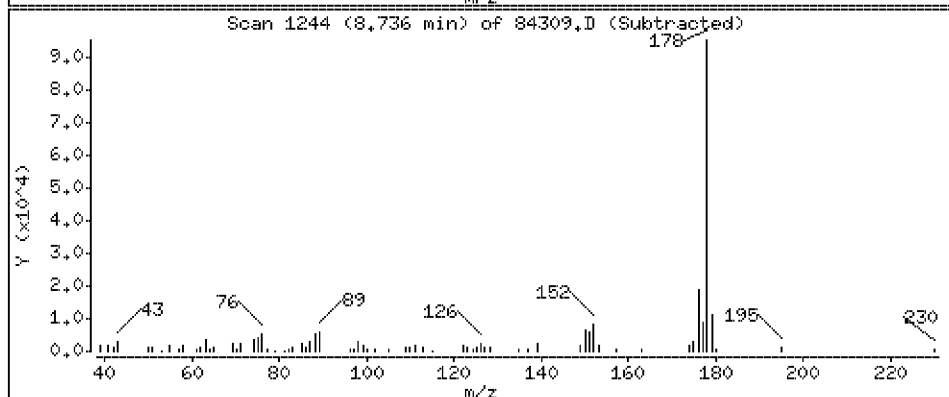
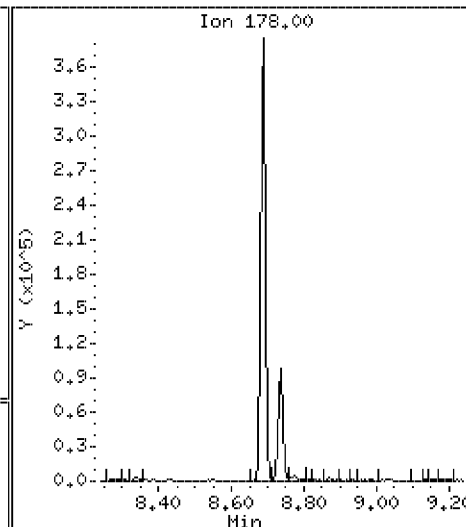
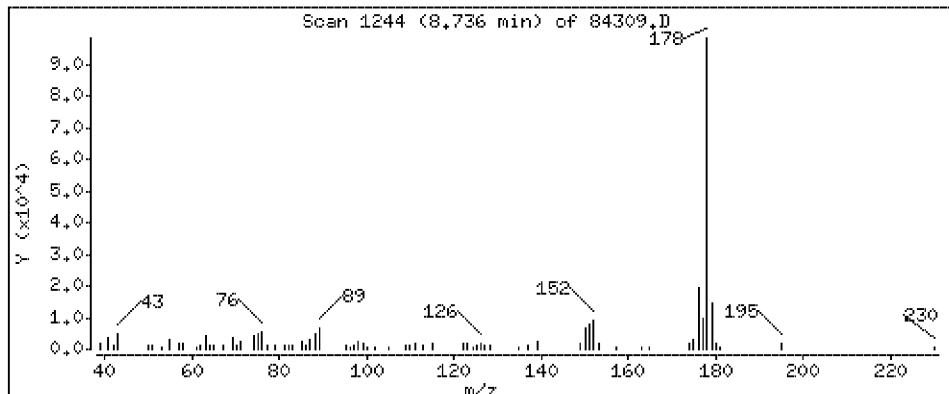
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

103 Anthracene

Concentration: 142 ug/kg



Date : 04-MAY-2012 16:09

Client ID: EPAFMC-SD-13

Instrument: smsd03.i

Sample Info: SW350584309

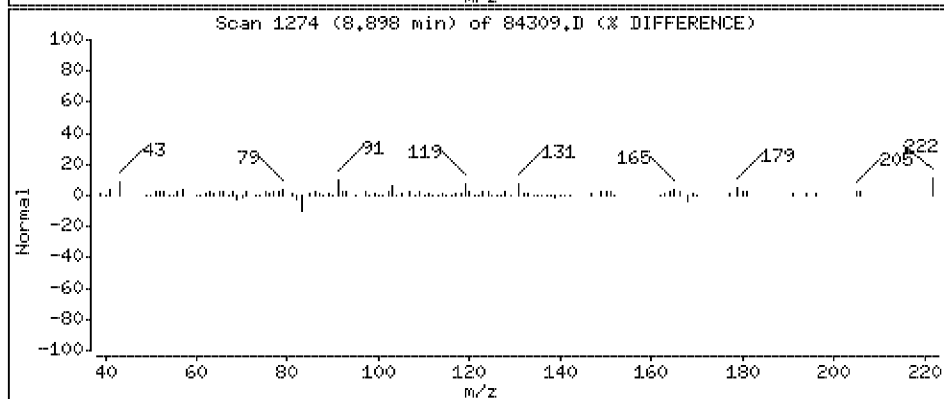
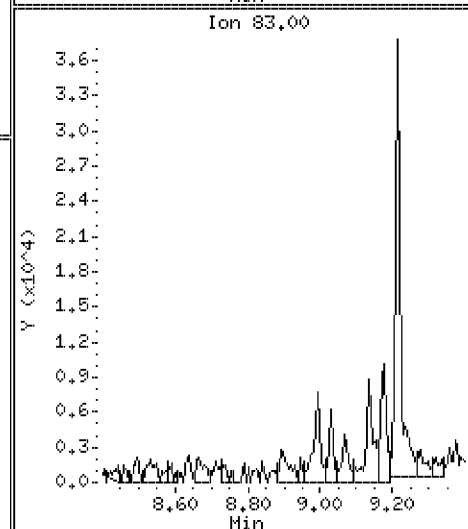
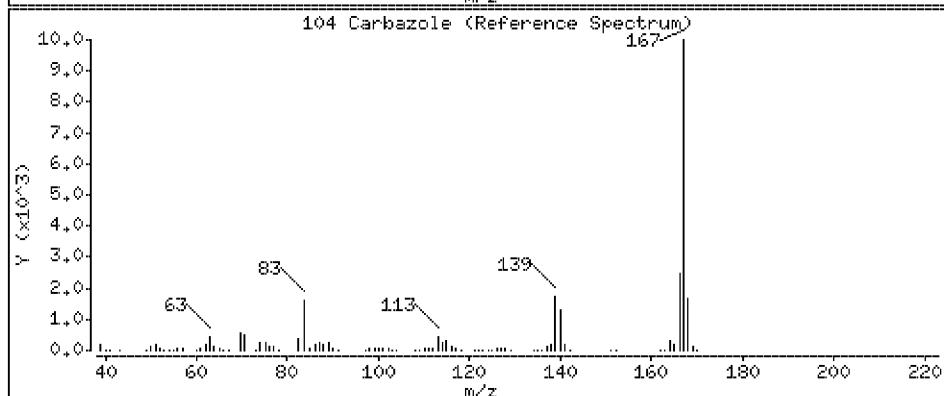
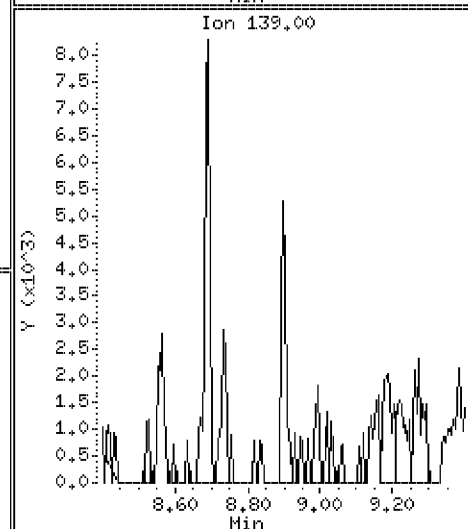
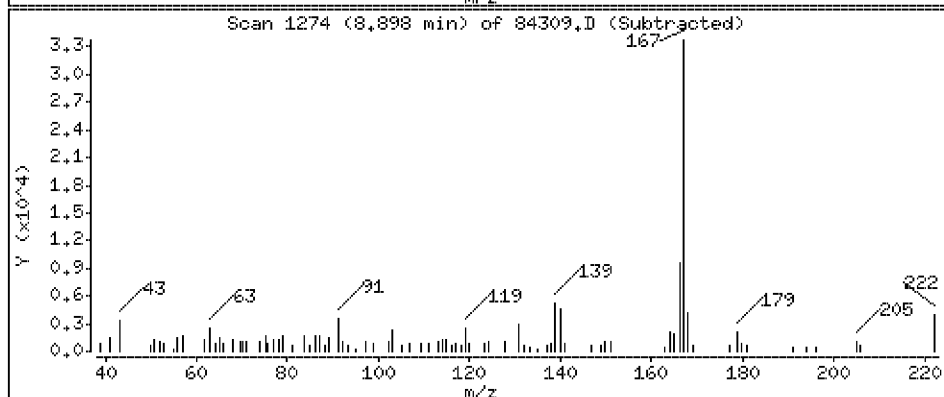
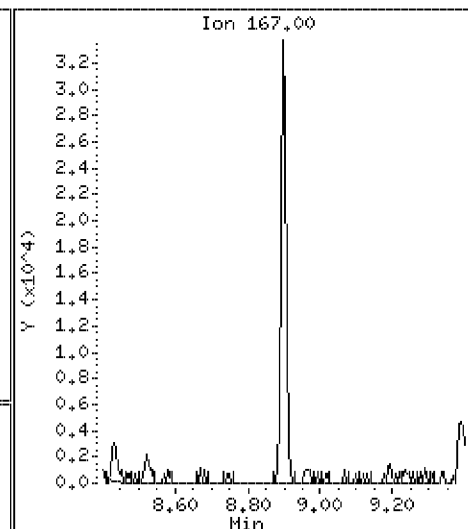
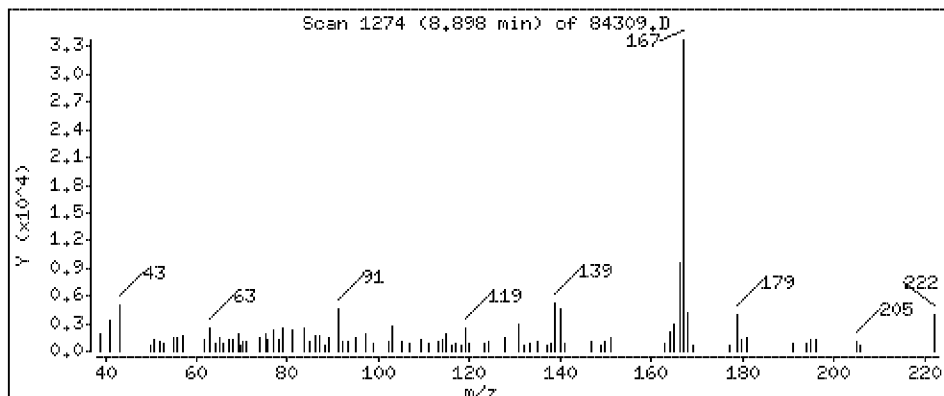
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

104 Carbazole

Concentration: 61.3 ug/kg



Date : 04-MAY-2012 16:09

Client ID: EPAFMC-SD-13

Instrument: smsd03.i

Sample Info: SW350584309

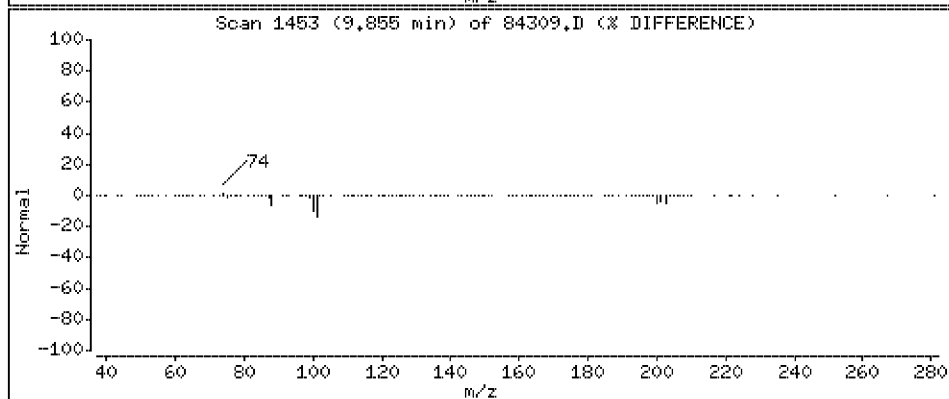
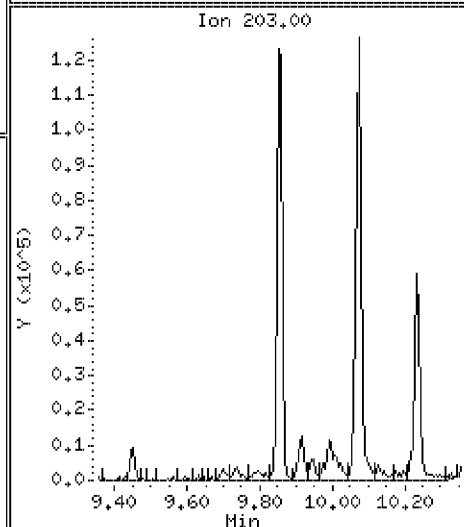
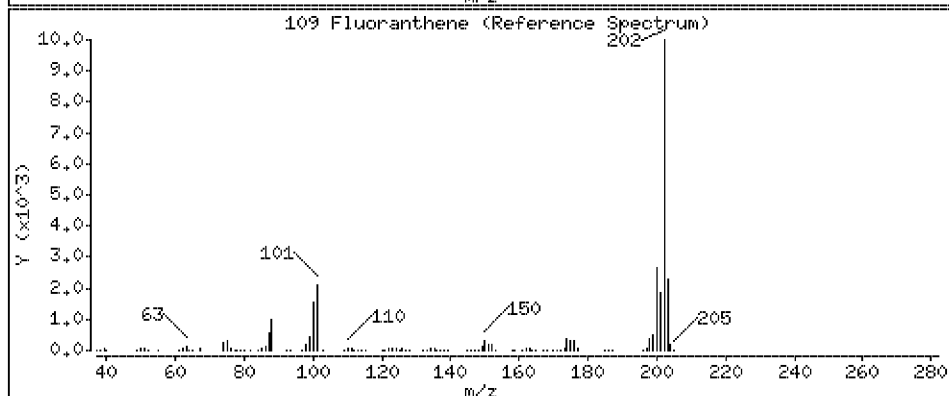
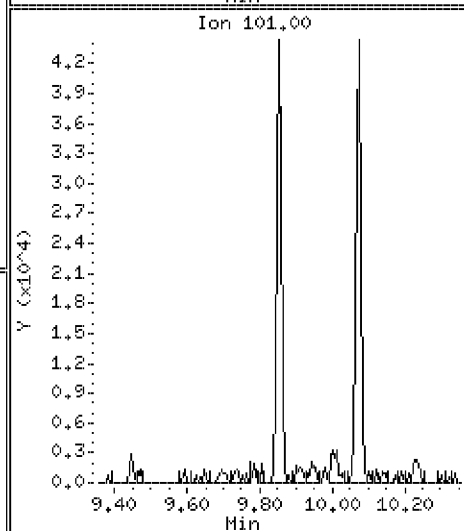
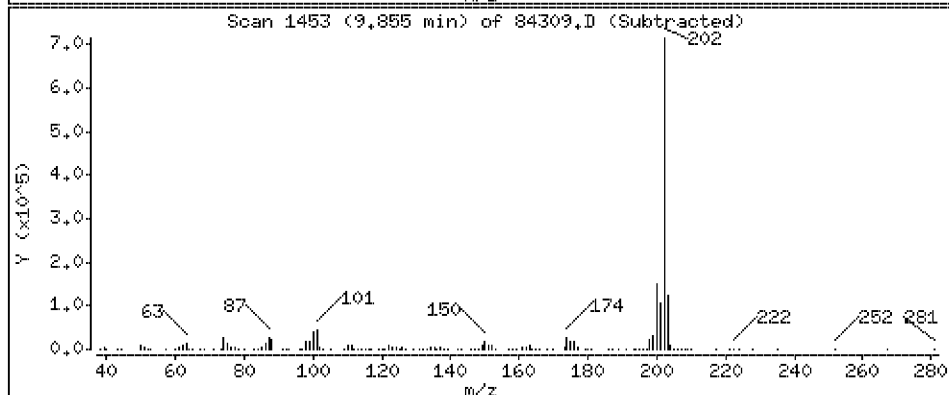
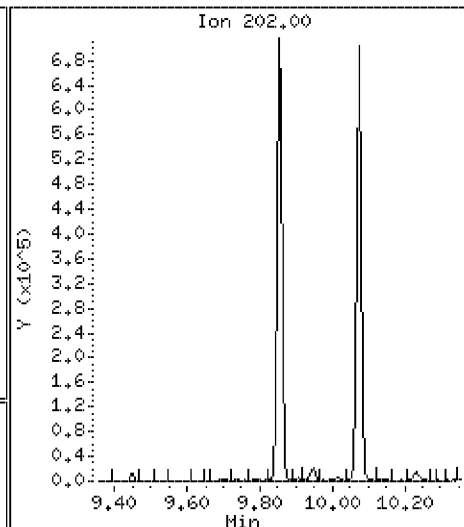
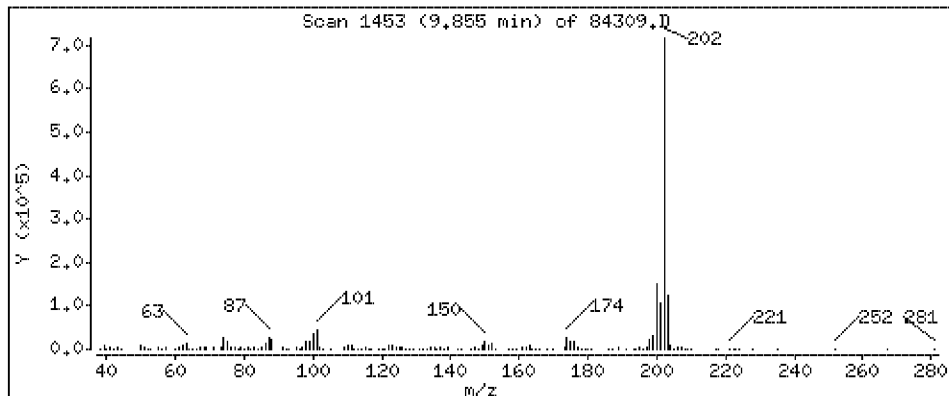
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

109 Fluoranthene

Concentration: 910 ug/kg



Date : 04-MAY-2012 16:09

Client ID: EPAFMC-SD-13

Instrument: smsd03.i

Sample Info: SW350584309

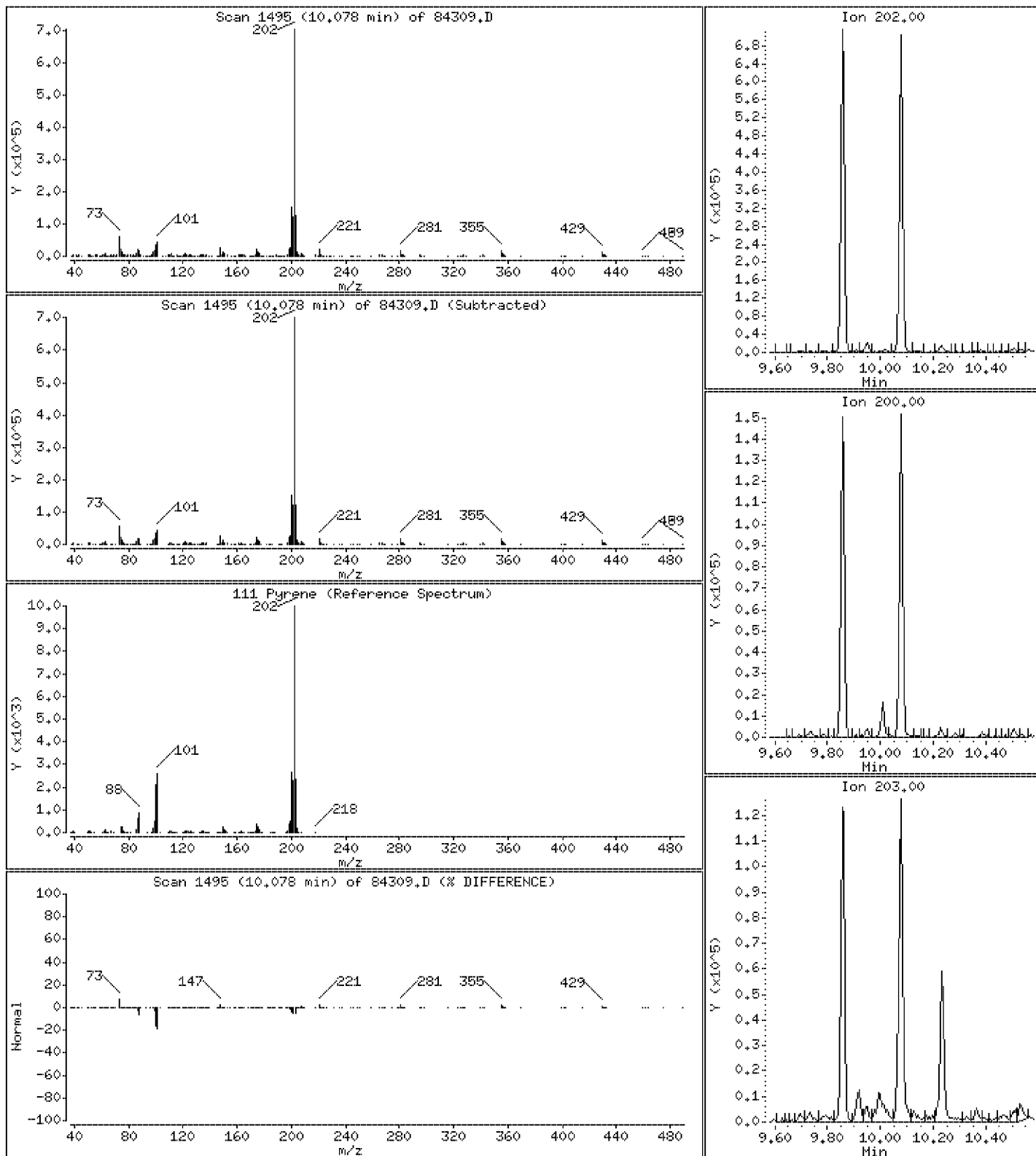
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

111 Pyrene

Concentration: 914 ug/kg



Date : 04-MAY-2012 16:09

Client ID: EPAFMC-SD-13

Instrument: smsd03.i

Sample Info: SW350584309

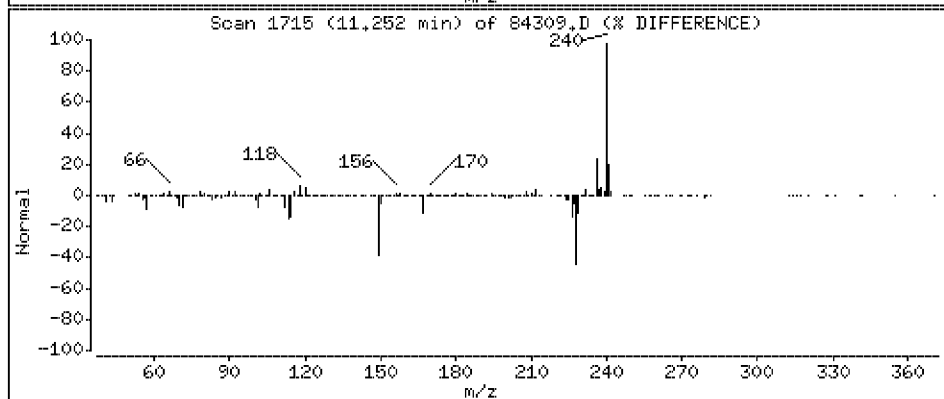
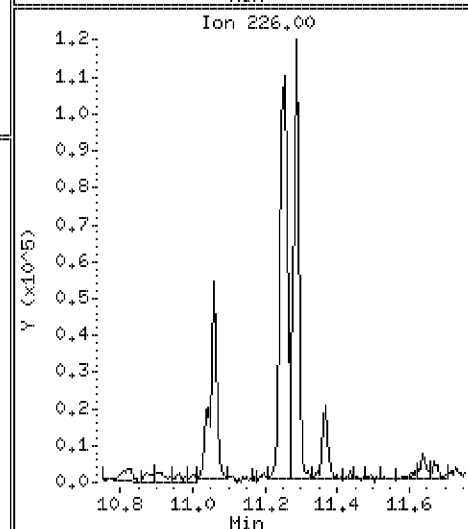
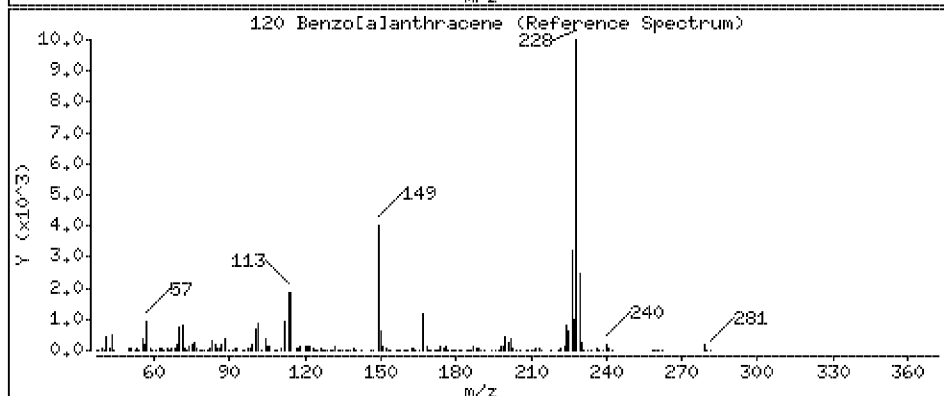
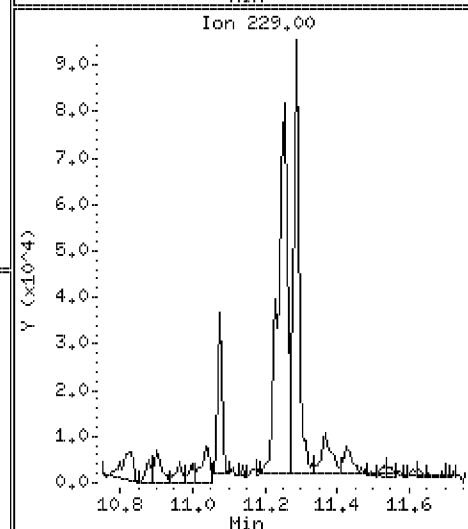
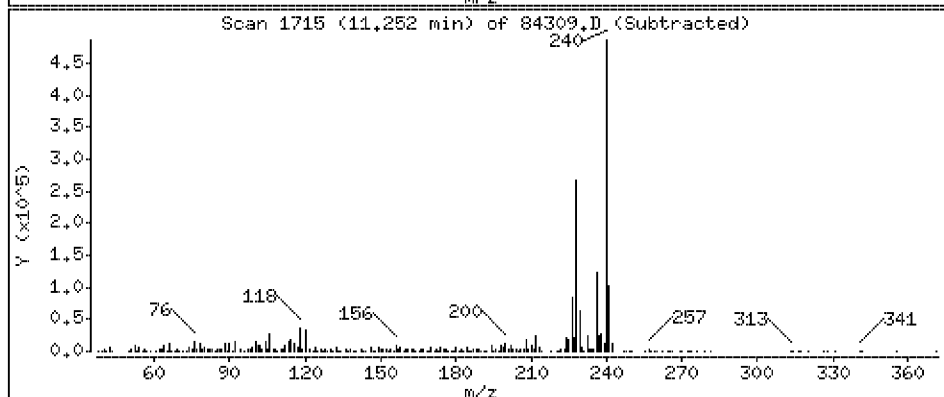
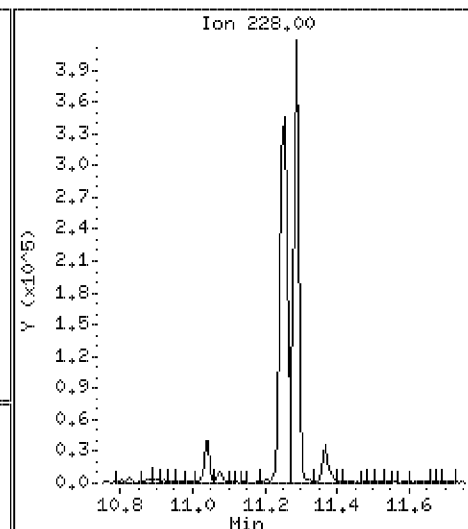
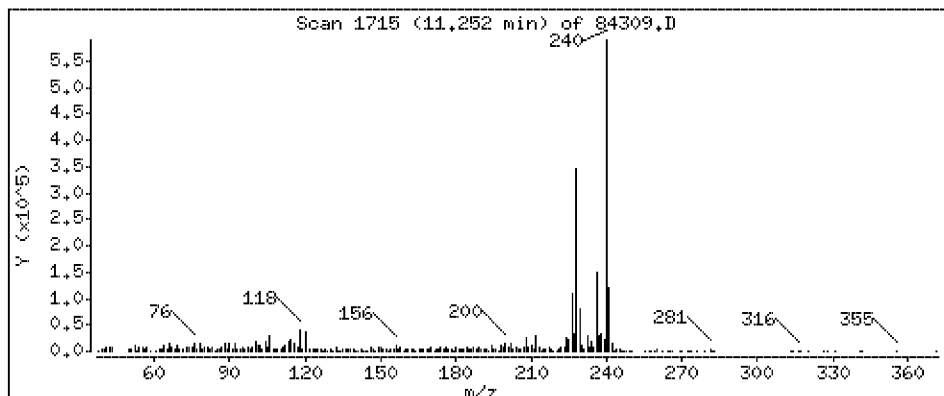
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

120 Benzo[*a*]anthracene

Concentration: 466 ug/kg



Date : 04-MAY-2012 16:09

Client ID: EPAFMC-SD-13

Instrument: smsd03.i

Sample Info: SW350584309

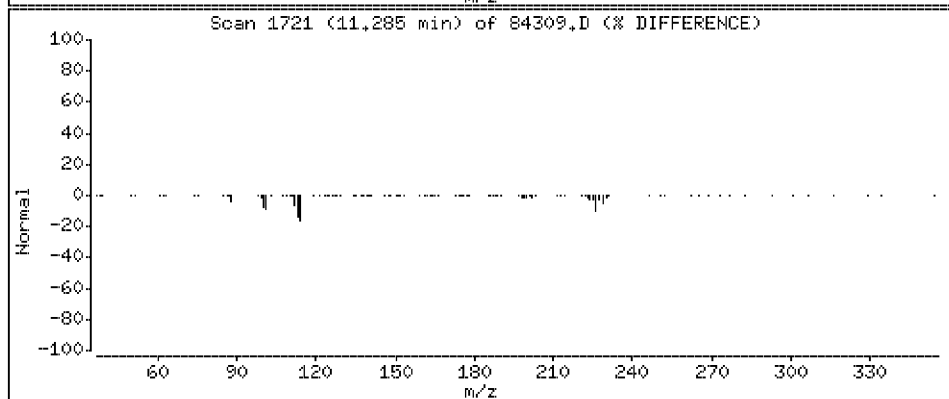
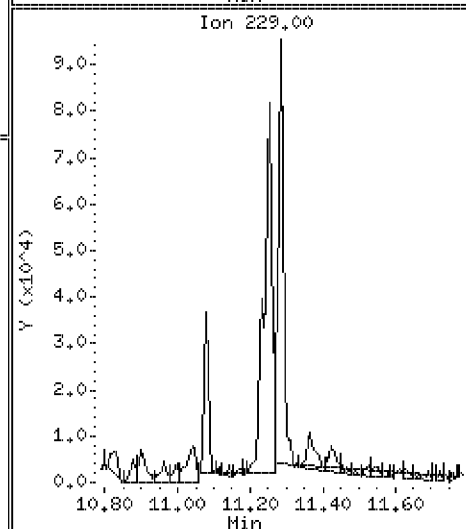
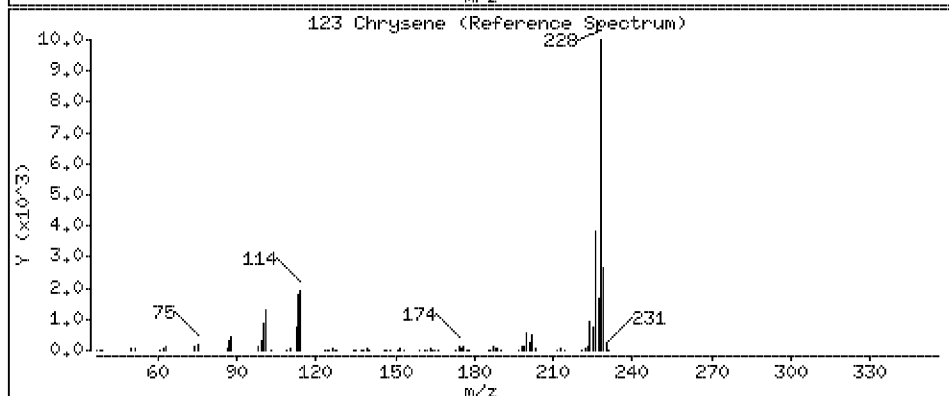
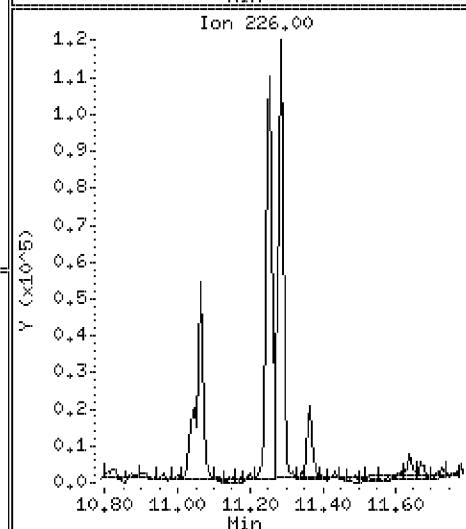
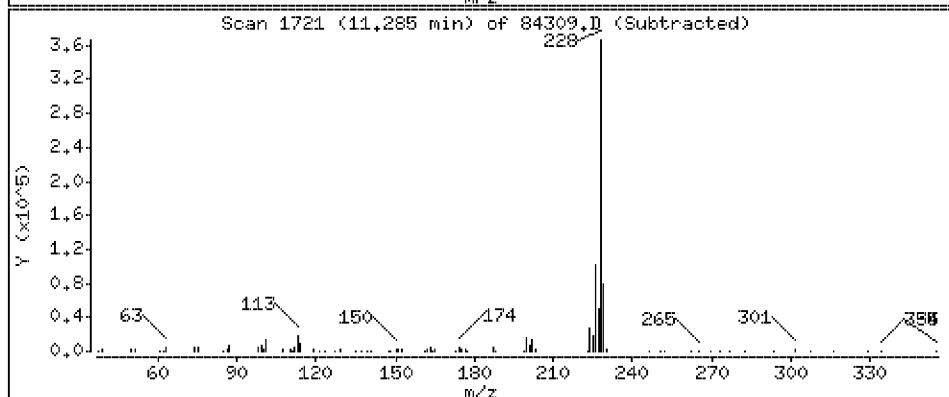
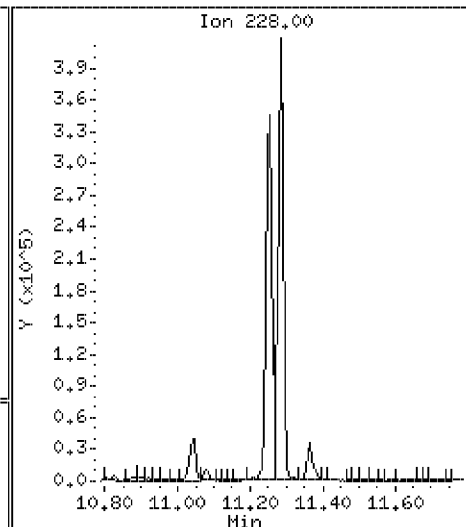
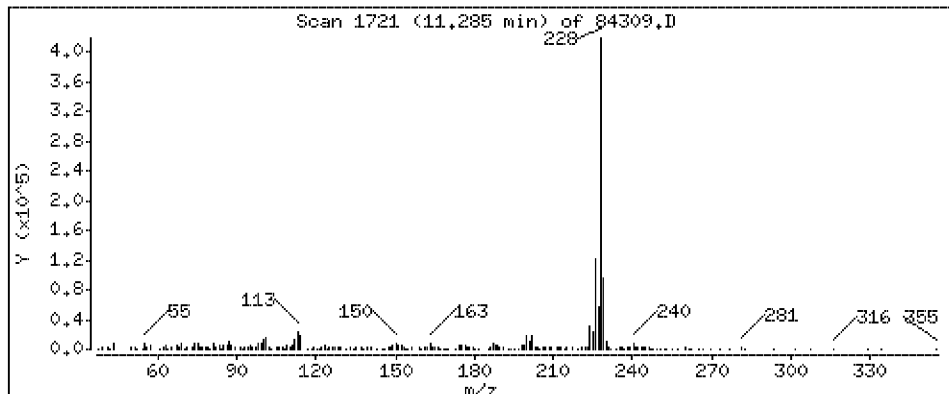
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

123 Chrysene

Concentration: 591 ug/kg



Date : 04-MAY-2012 16:09

Client ID: EPAFMC-SD-13

Instrument: smsd03.i

Sample Info: SW350584309

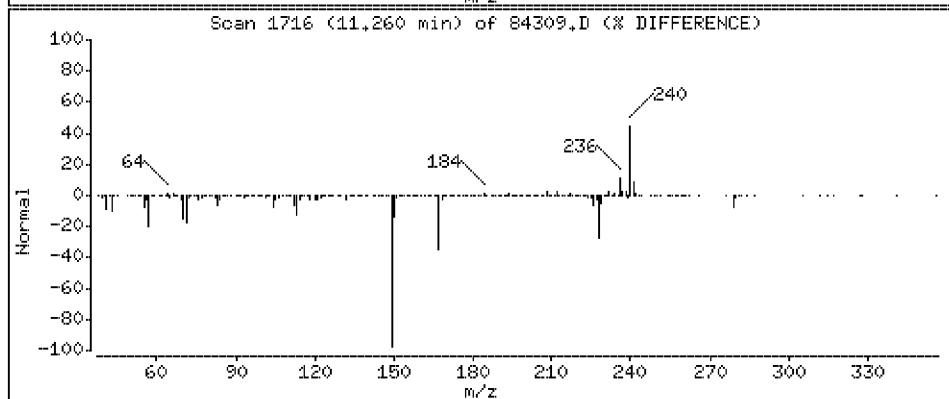
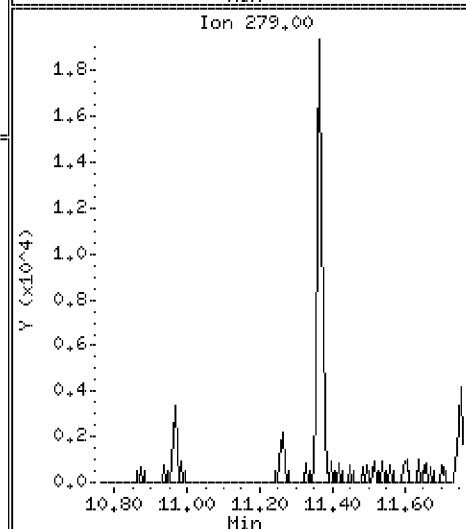
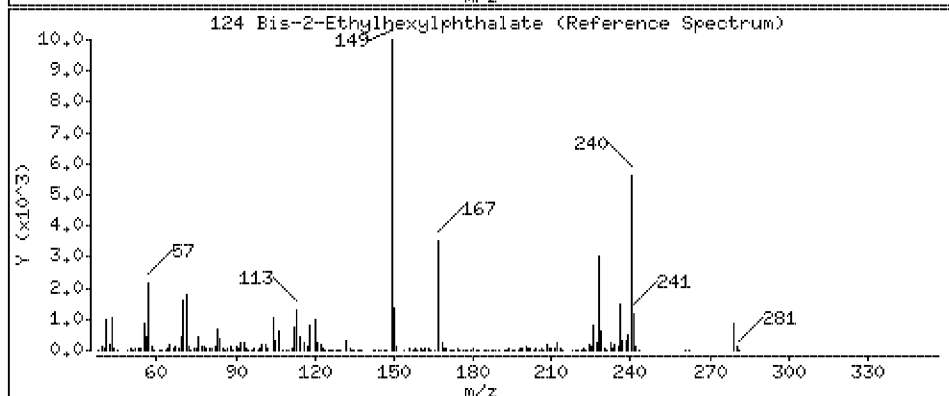
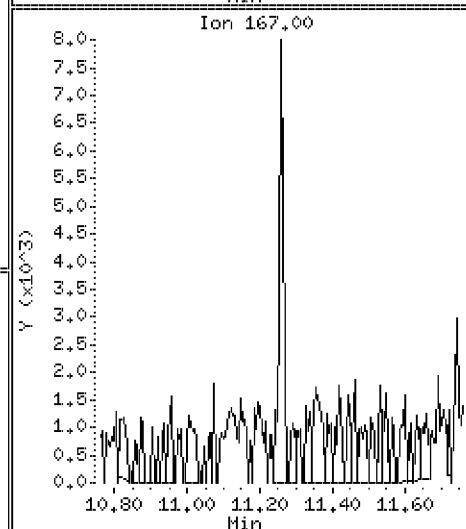
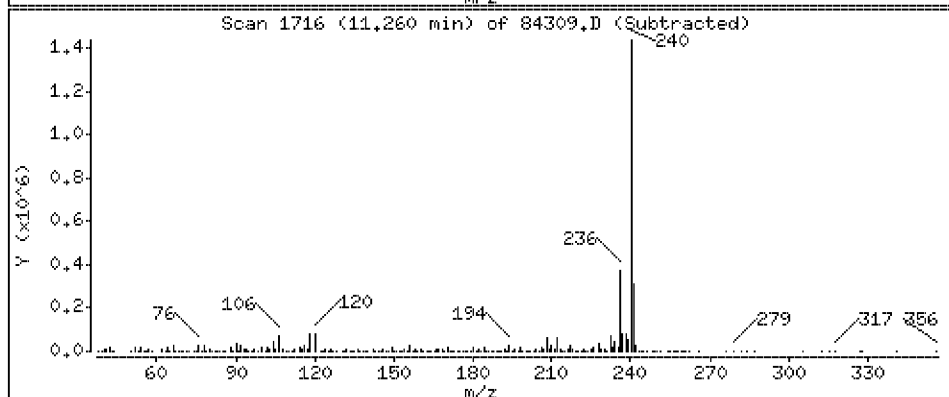
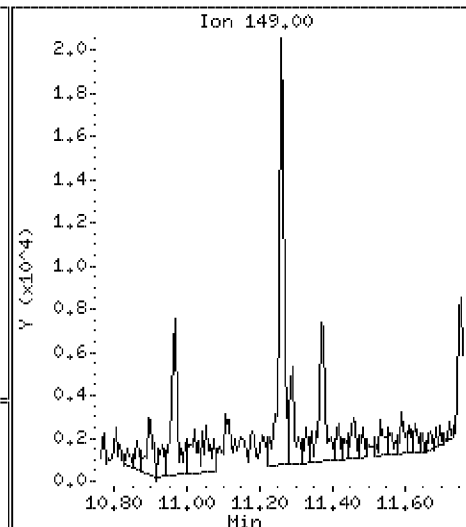
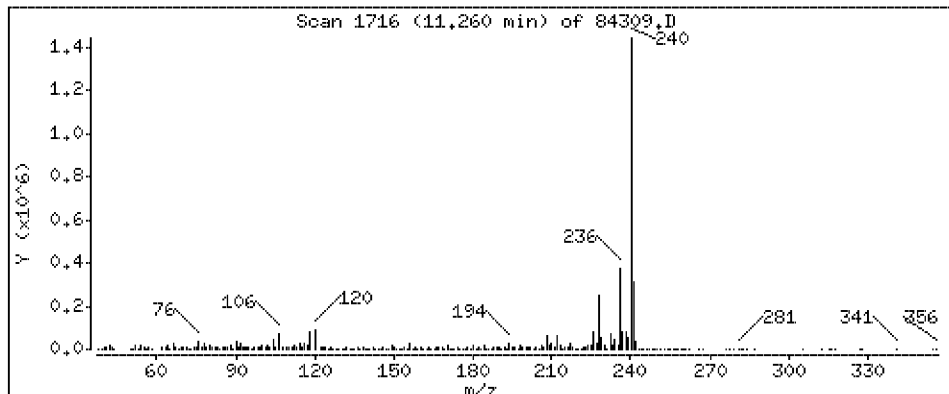
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

124 Bis-2-Ethylhexylphthalate

Concentration: 38,5 ug/kg



Date : 04-MAY-2012 16:09

Client ID: EPAFMC-SD-13

Instrument: smsd03.i

Sample Info: SW350584309

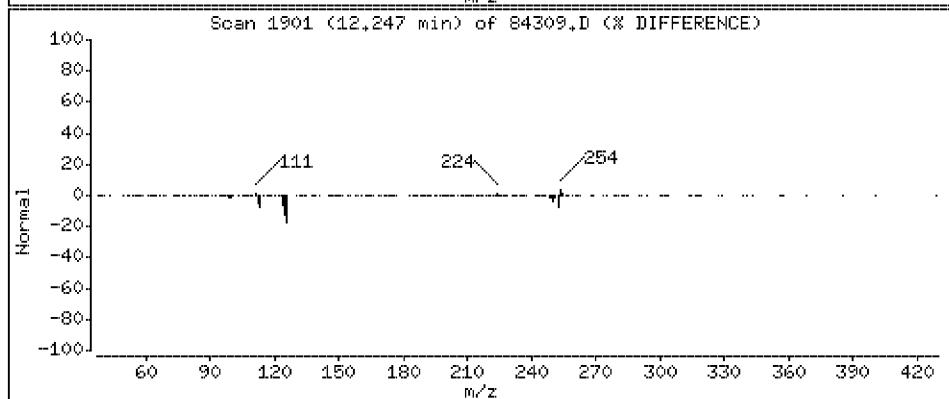
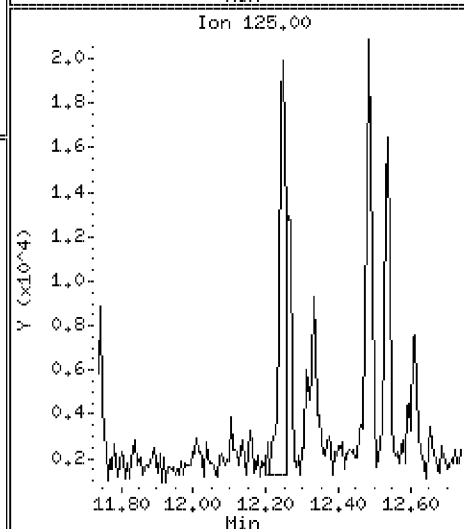
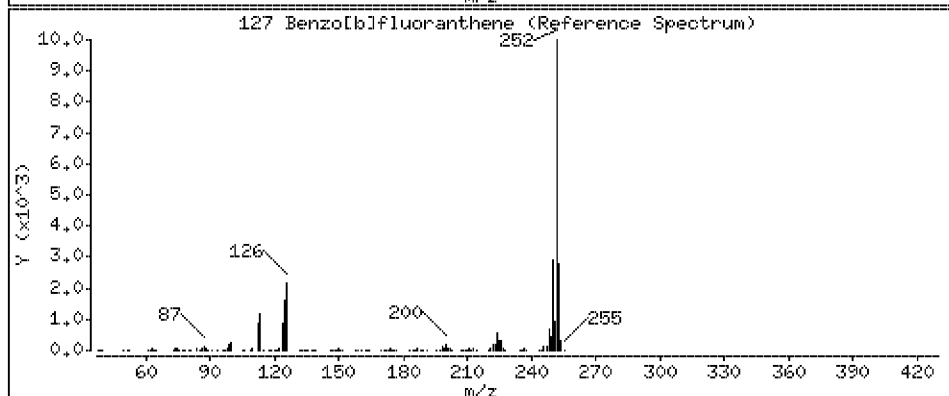
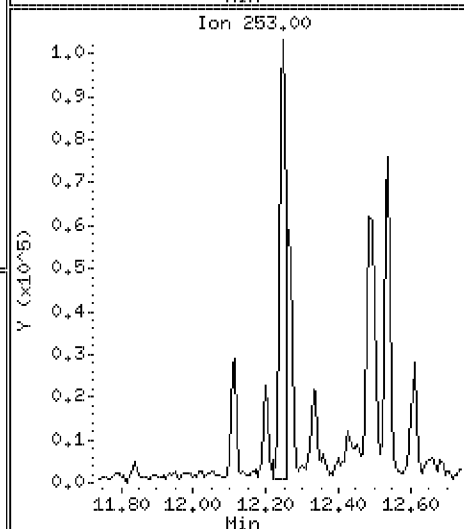
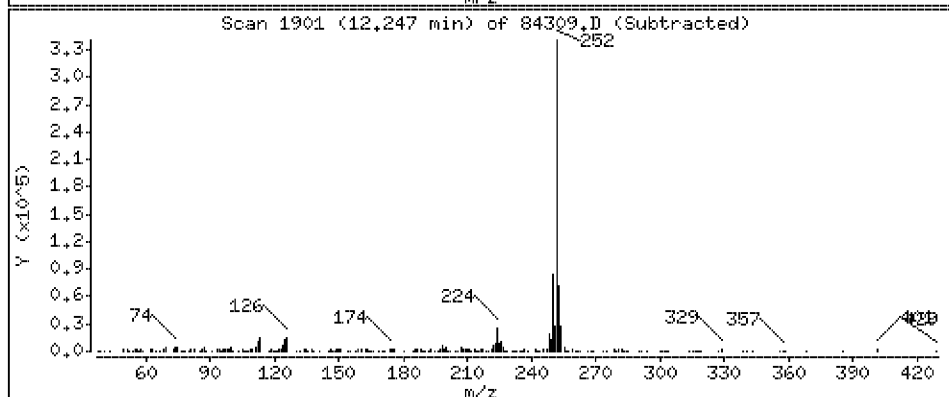
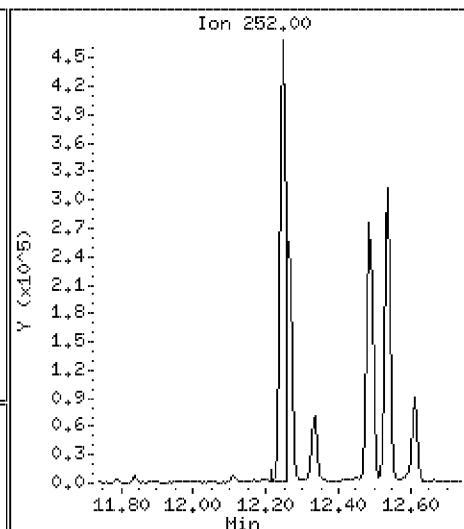
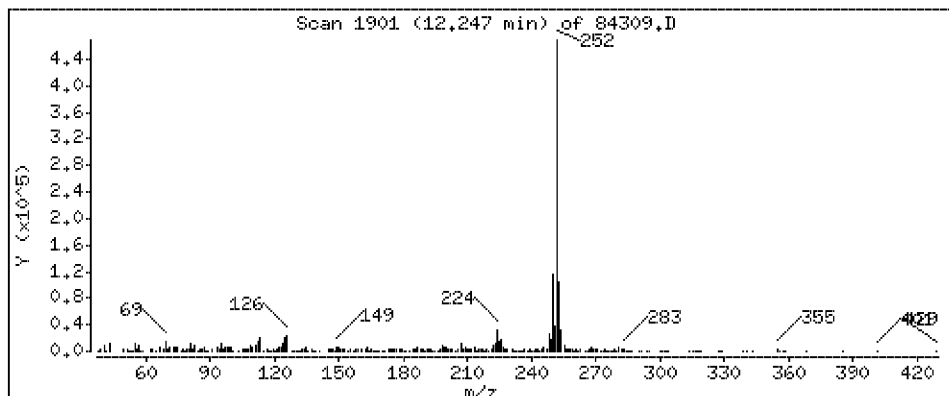
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

127 Benzo[b]fluoranthene

Concentration: 603 ug/kg



Date : 04-MAY-2012 16:09

Client ID: EPAFMC-SD-13

Instrument: smsd03.i

Sample Info: SW350584309

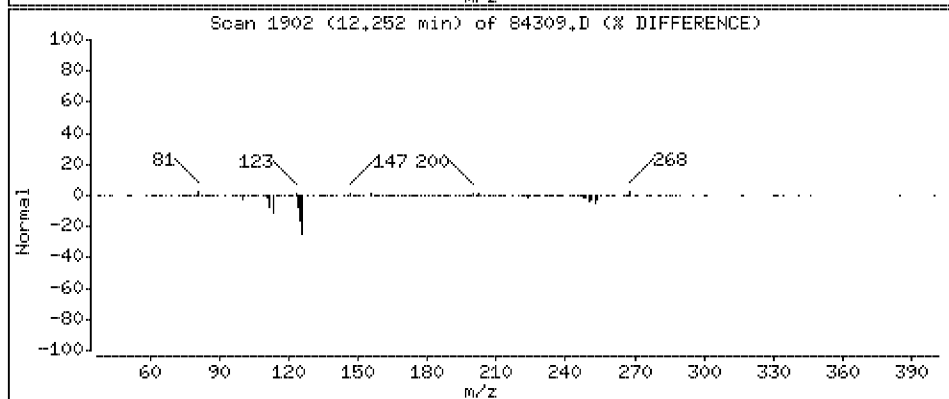
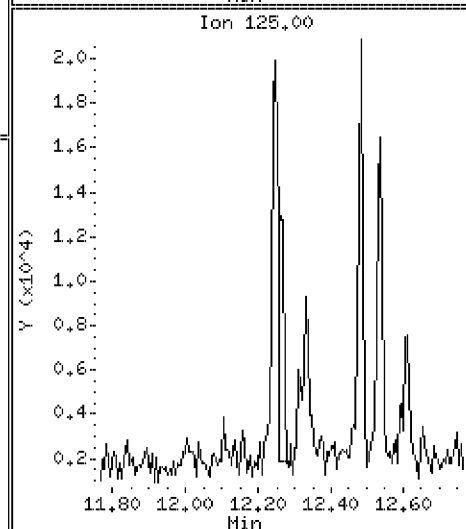
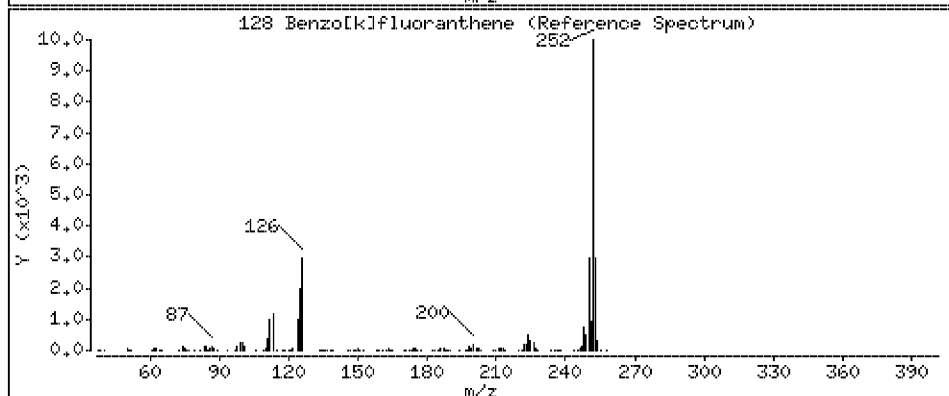
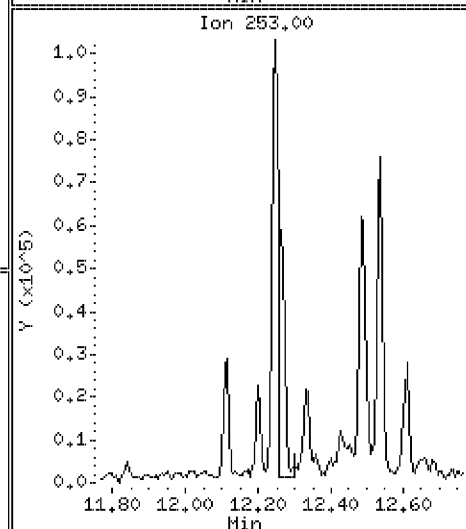
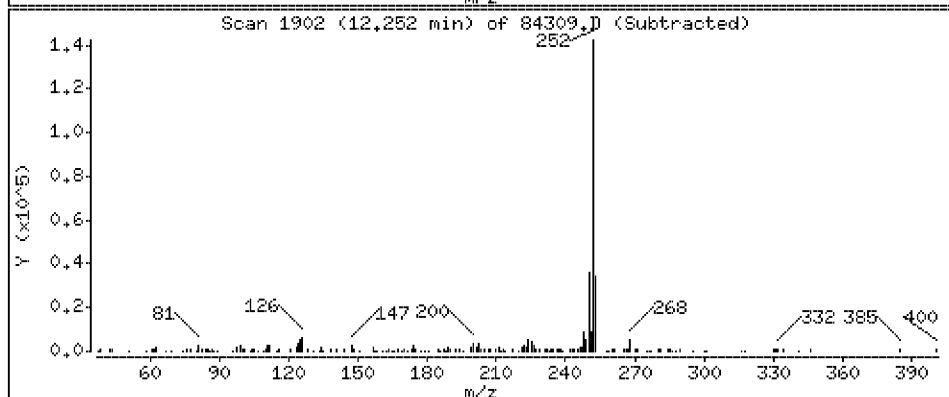
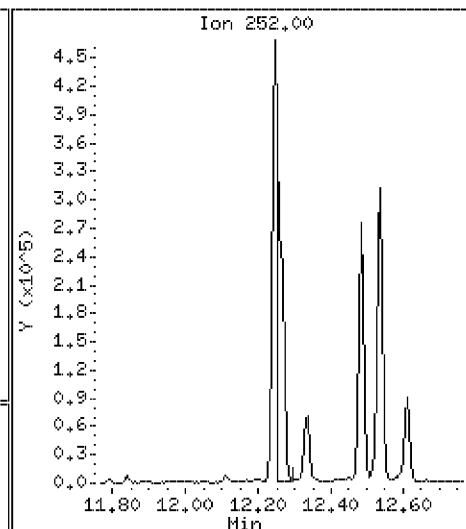
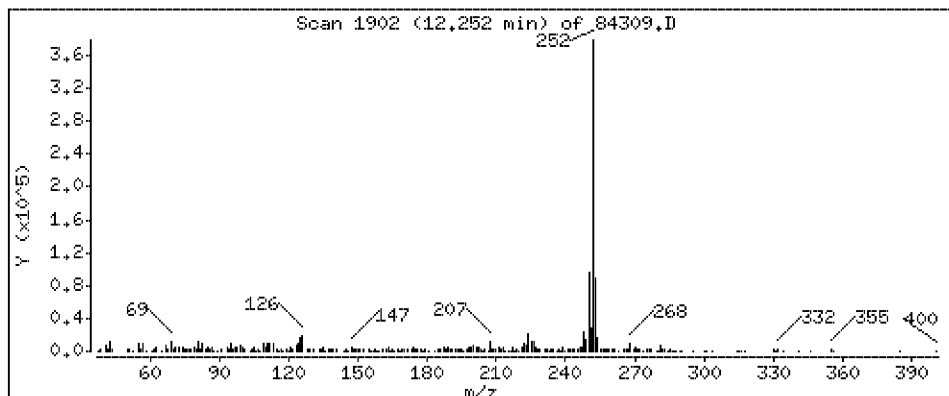
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

128 Benzo[k]fluoranthene

Concentration: 454 ug/kg



Date : 04-MAY-2012 16:09

Client ID: EPAFMC-SD-13

Instrument: smsd03.i

Sample Info: SW350584309

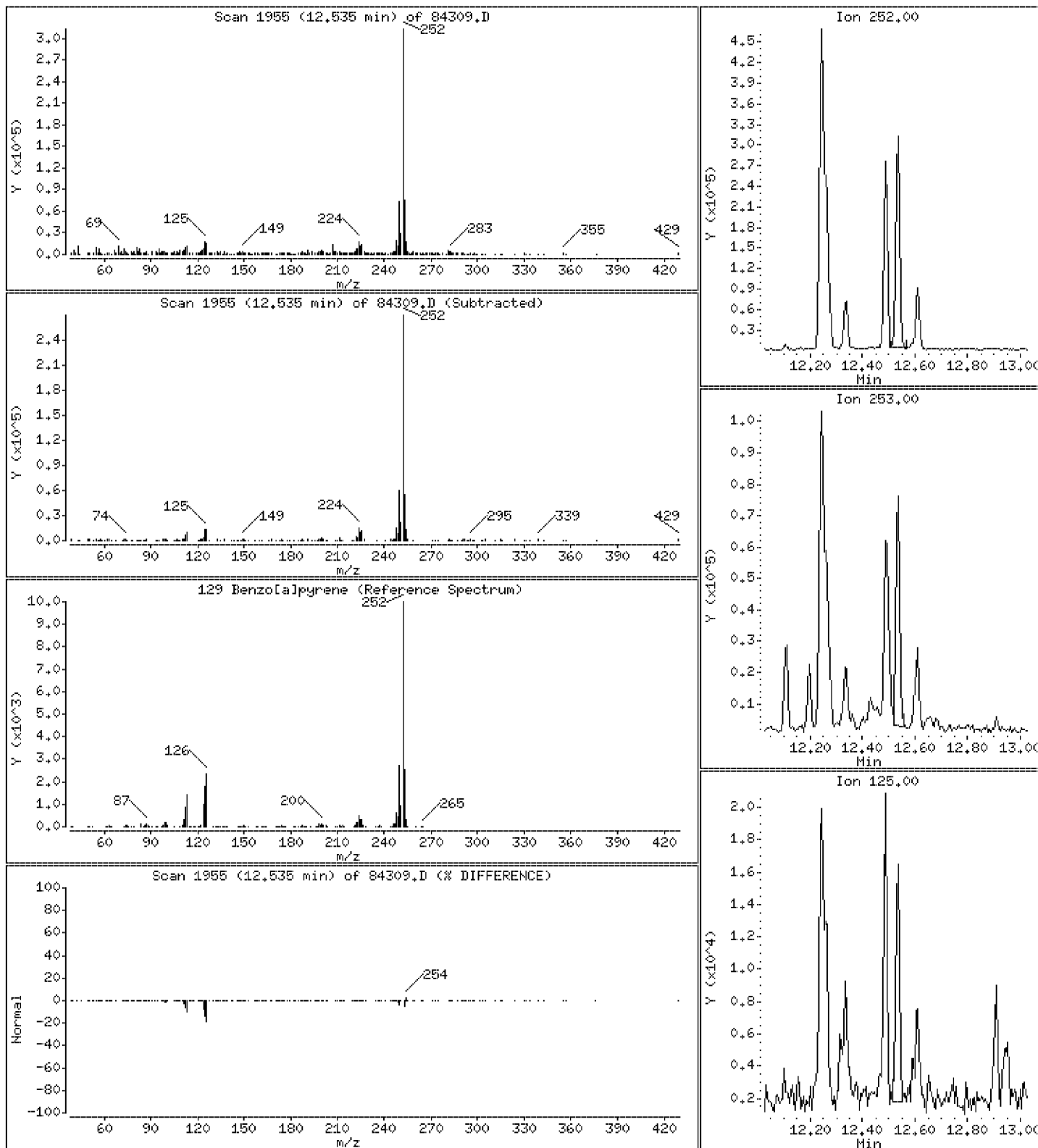
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

129 Benzo[a]pyrene

Concentration: 362 ug/kg



Date : 04-MAY-2012 16:09

Client ID: EPAFMC-SD-13

Instrument: smsd03.i

Sample Info: SW350584309

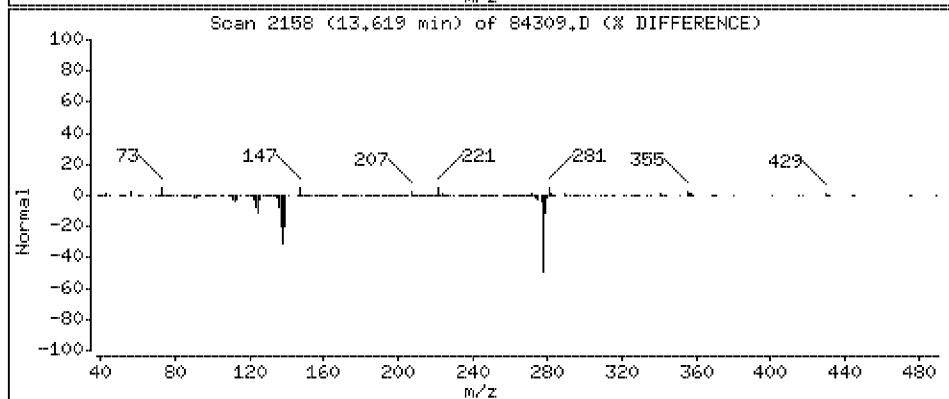
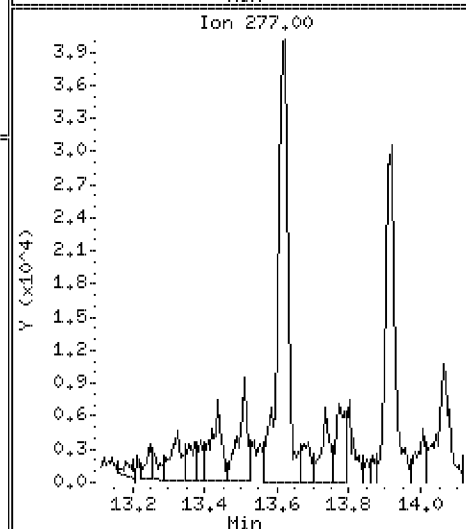
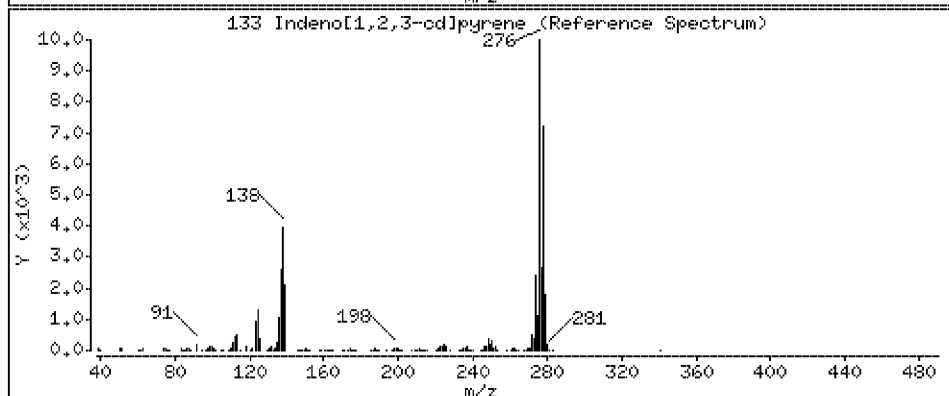
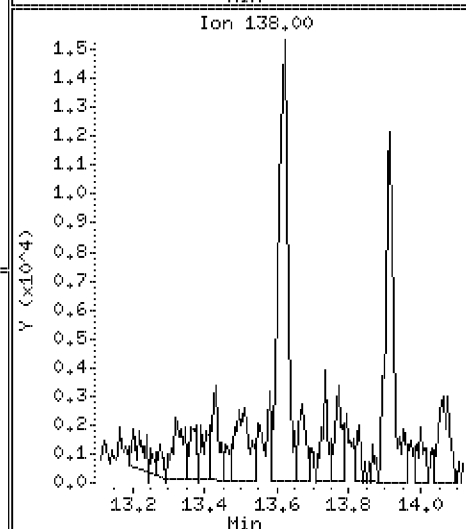
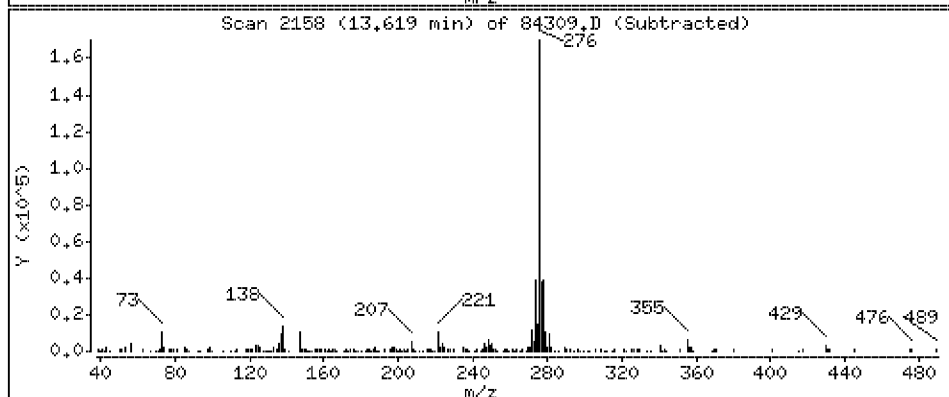
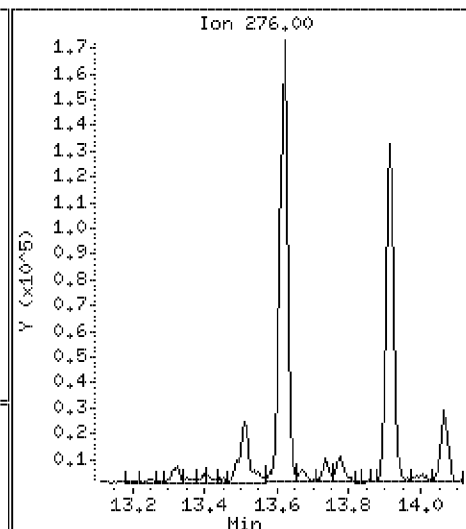
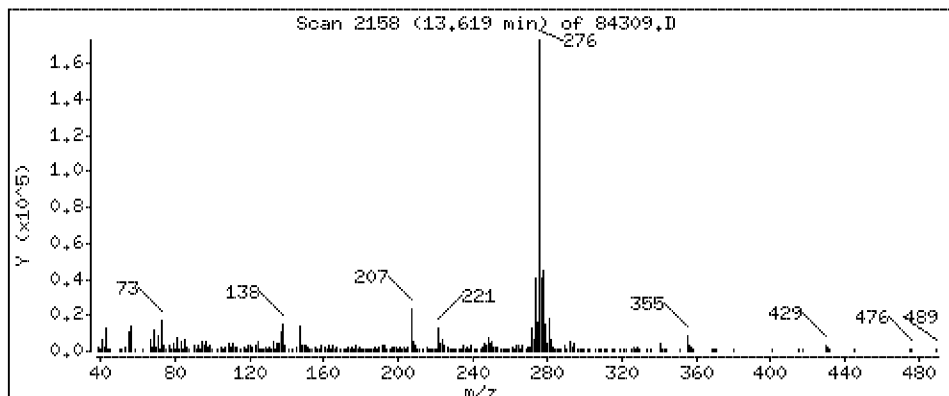
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

133 Indeno[1,2,3-cd]pyrene

Concentration: 206 ug/kg



Date : 04-MAY-2012 16:09

Client ID: EPAFMC-SD-13

Instrument: smsd03.i

Sample Info: SW350584309

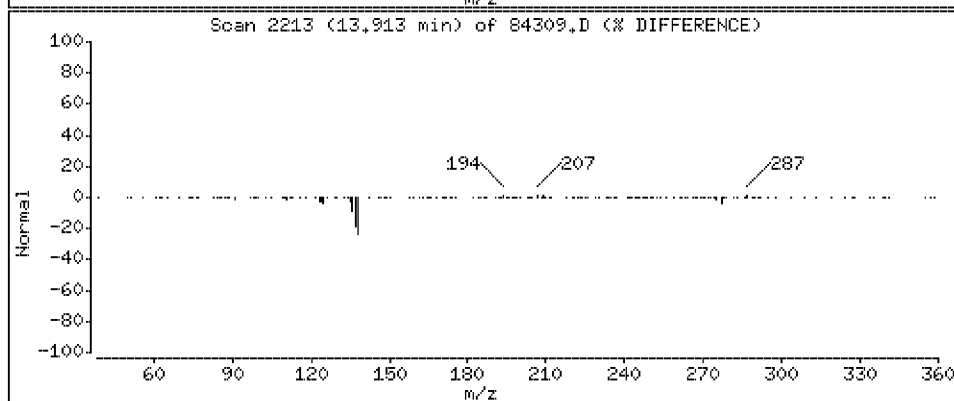
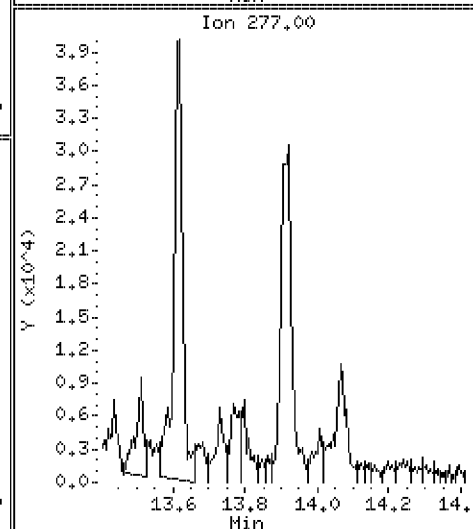
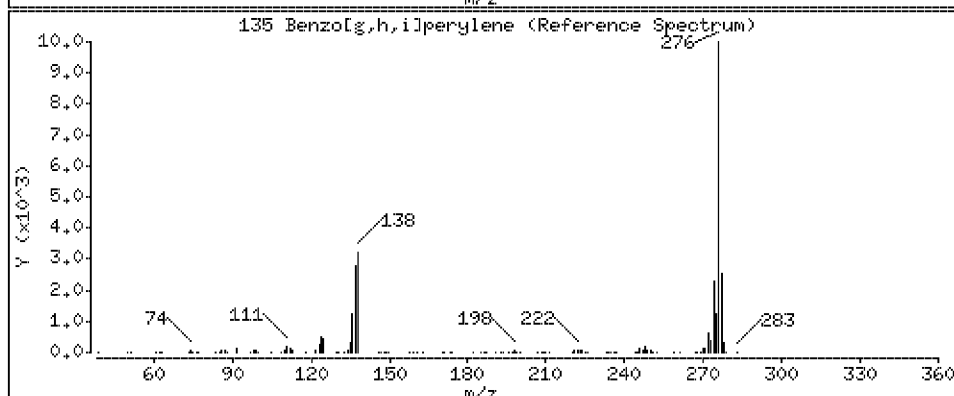
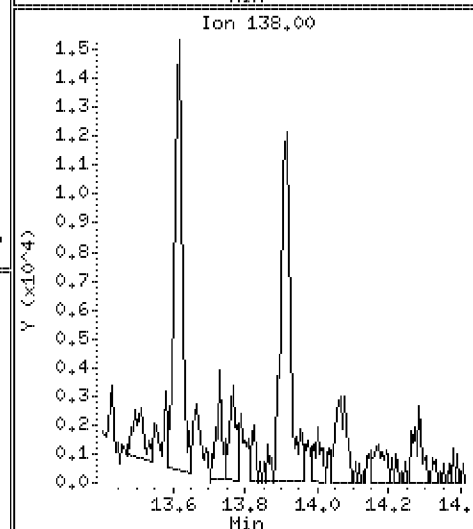
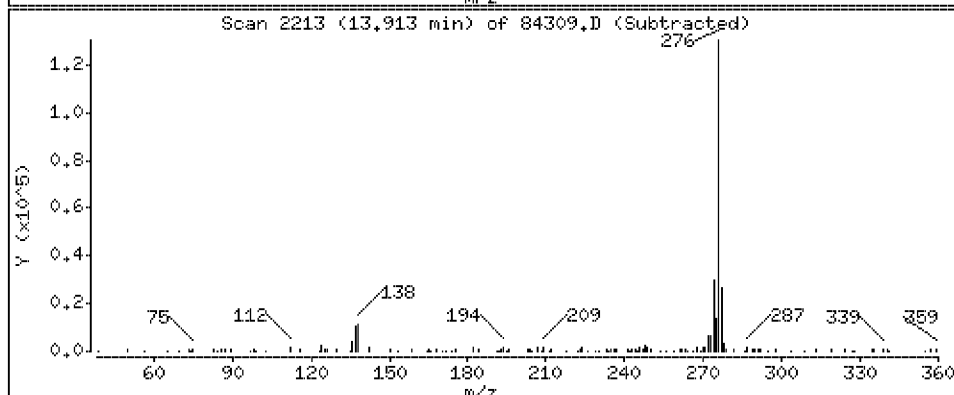
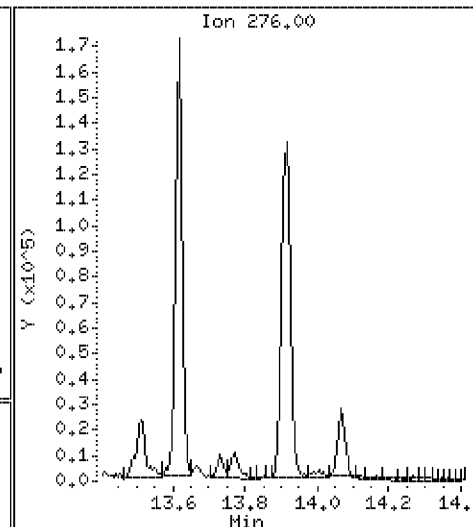
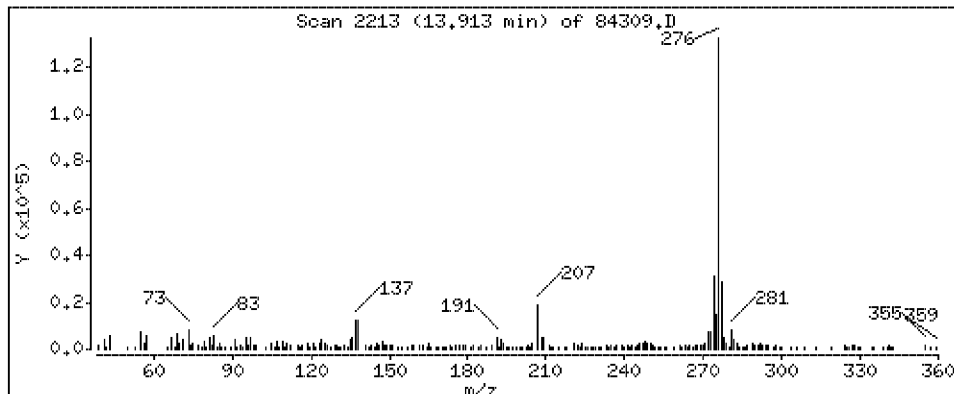
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

135 Benzo[*g,h,i*]perylene

Concentration: 235 ug/kg



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3050412.b\84310.D
 Lab Smp Id: 350584310 Client Smp ID: EPAFMC-SD-14
 Inj Date : 04-MAY-2012 16:32 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : SW350584310
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3050412.b\8270bcs.m
 Meth Date : 07-May-2012 17:35 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 18:17 Cal File: AP9CAL4.D
 Als bottle: 17
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.670	Weight of sample extracted (g)
M	19.400	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.354	4.352 (1.000)		152	288142	40.0000		80.00- 120.00	100.00	
4.353	4.352 (1.000)		115	176519			31.12- 91.12	61.26	
4.354	4.352 (1.000)		150	425981			117.02- 177.02	147.84	
* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.515	5.513 (1.000)		136	947748	40.0000		80.00- 120.00	100.00	
5.514	5.513 (1.000)		68	48487			0.00- 35.11	5.12	
* 70 Acenaphthene-d10 CAS #: 15067-26-2									
7.209	7.208 (1.000)		164	671511	40.0000		80.00- 120.00	100.00	
7.209	7.208 (1.000)		162	656758			66.36- 126.36	97.80	
7.209	7.208 (1.000)		160	299468			14.03- 74.03	44.60	
* 100 Phenanthrene-d10 CAS #: 1517-22-2									
8.664	8.665 (1.000)		188	1371874	40.0000		80.00- 120.00	100.00	
8.663	8.665 (1.000)		94	81740			0.00- 36.25	5.96	
8.663	8.665 (1.000)		80	100818			0.00- 37.67	7.35	
* 121 Chrysene-d12 CAS #: 1719-03-5									
11.263	11.259 (1.000)		240	1889137	40.0000		80.00- 120.00	100.00	

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
* 121 Chrysene-d12 (continued)									
11.262	11.259	(1.000)	120	106045			0.00-	34.90	5.61
11.263	11.259	(1.000)	236	505657			0.00-	56.56	26.77

* 130 Perylene-d12					CAS #: 1520-96-3				
12.594	12.576	(1.000)	264	1830991	40.0000		80.00-	120.00	100.00
12.594	12.576	(1.000)	260	453150			0.00-	54.67	24.75
12.594	12.576	(1.000)	265	433472			0.00-	53.09	23.67

Date : 04-MAY-2012 16:32

Client ID: EPAFMC-SD-14

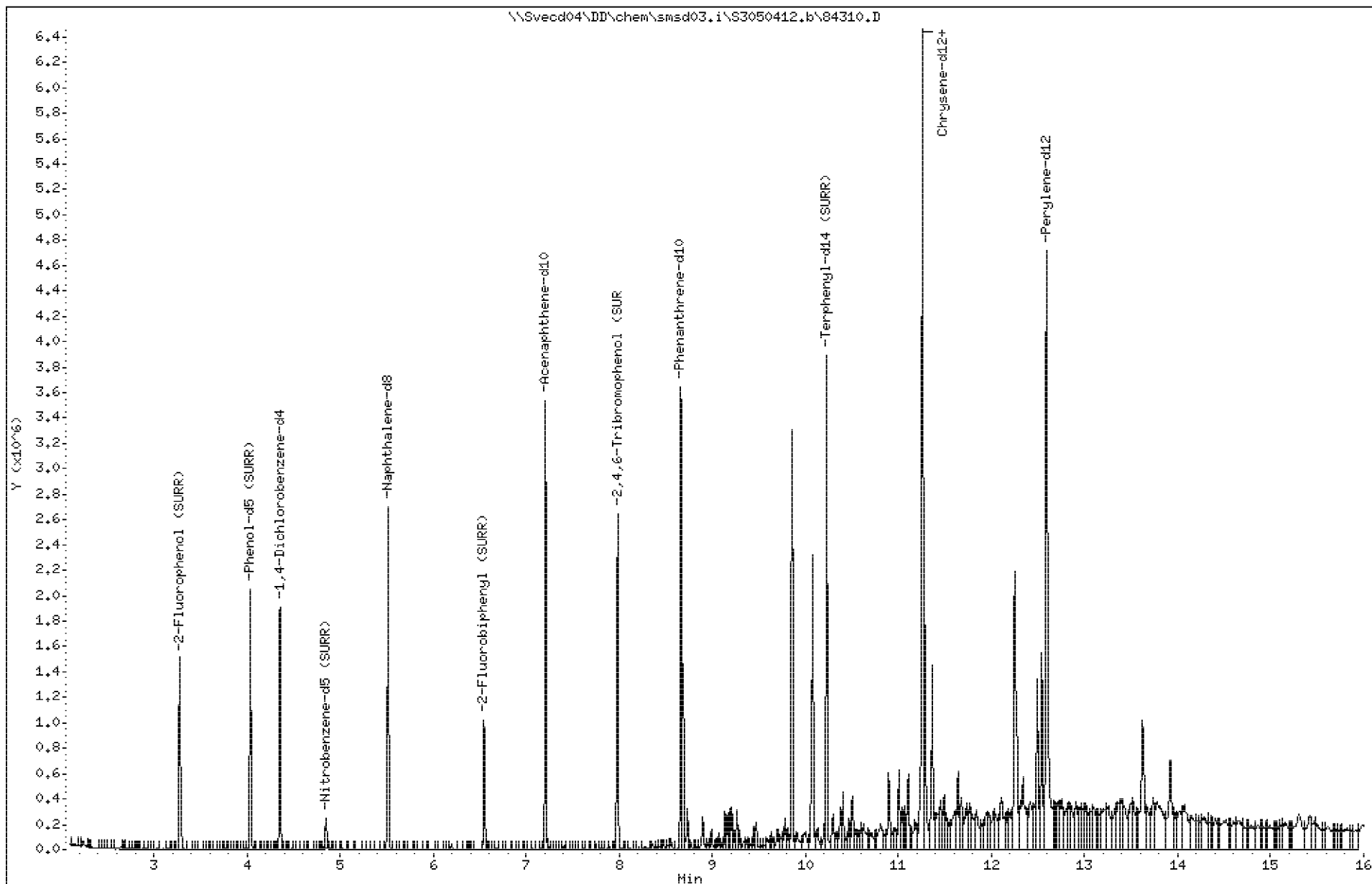
Sample Info: SN350584310

Instrument: smsd03.i

Operator: PEL

Column diameter: 0.25

Column phase: HPMS-5



Date : 04-MAY-2012 16:32

Client ID: EPAFMC-SD-14

Instrument: smsd03.i

Sample Info: SW350584310

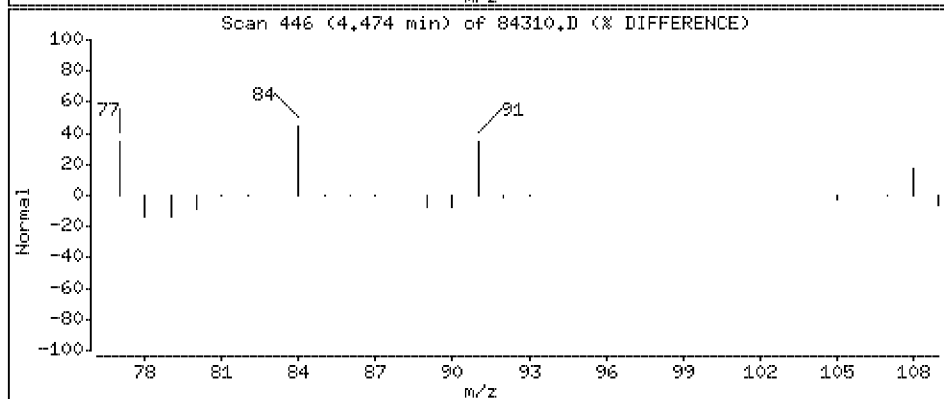
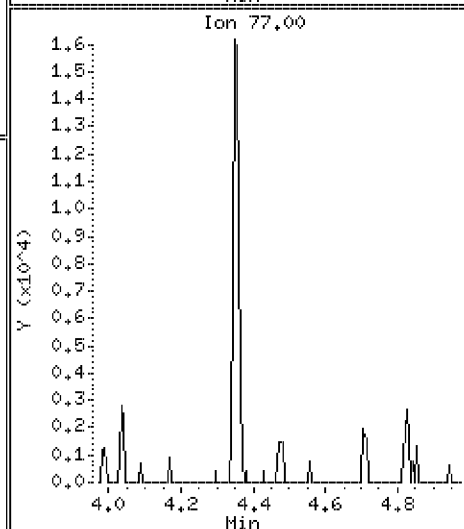
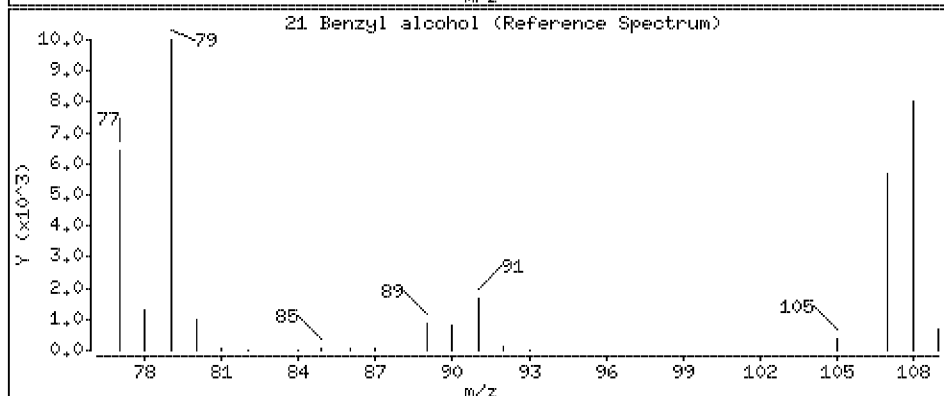
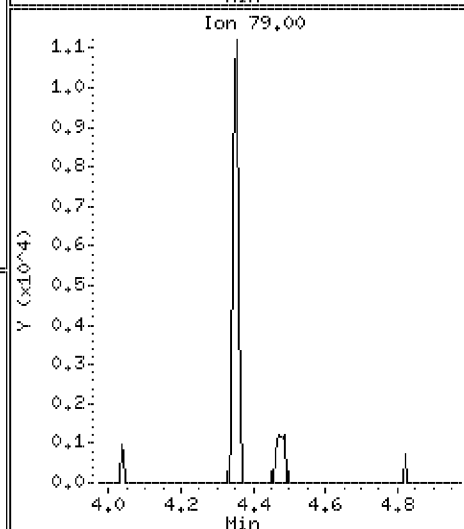
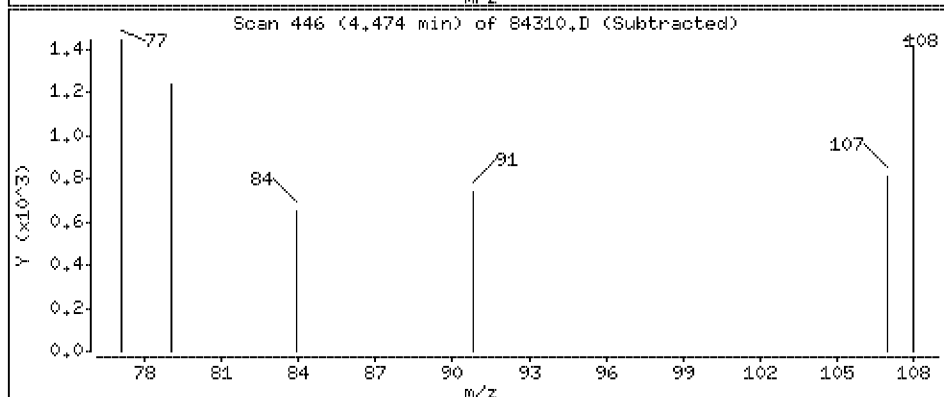
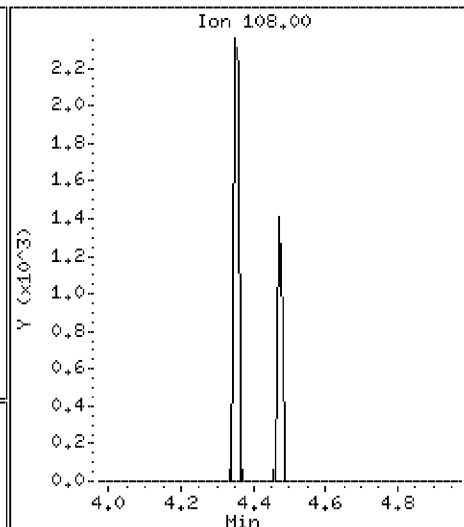
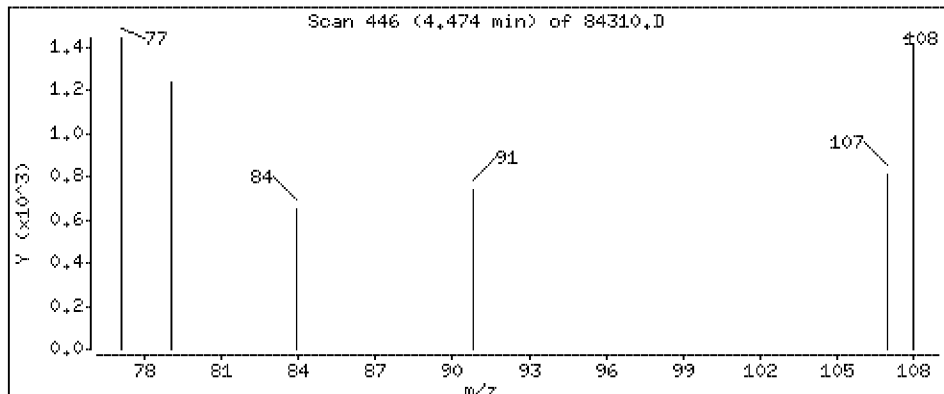
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

21 Benzyl alcohol

Concentration: 7.9 ug/kg



Date : 04-MAY-2012 16:32

Client ID: EPAFMC-SD-14

Instrument: smsd03.i

Sample Info: SW350584310

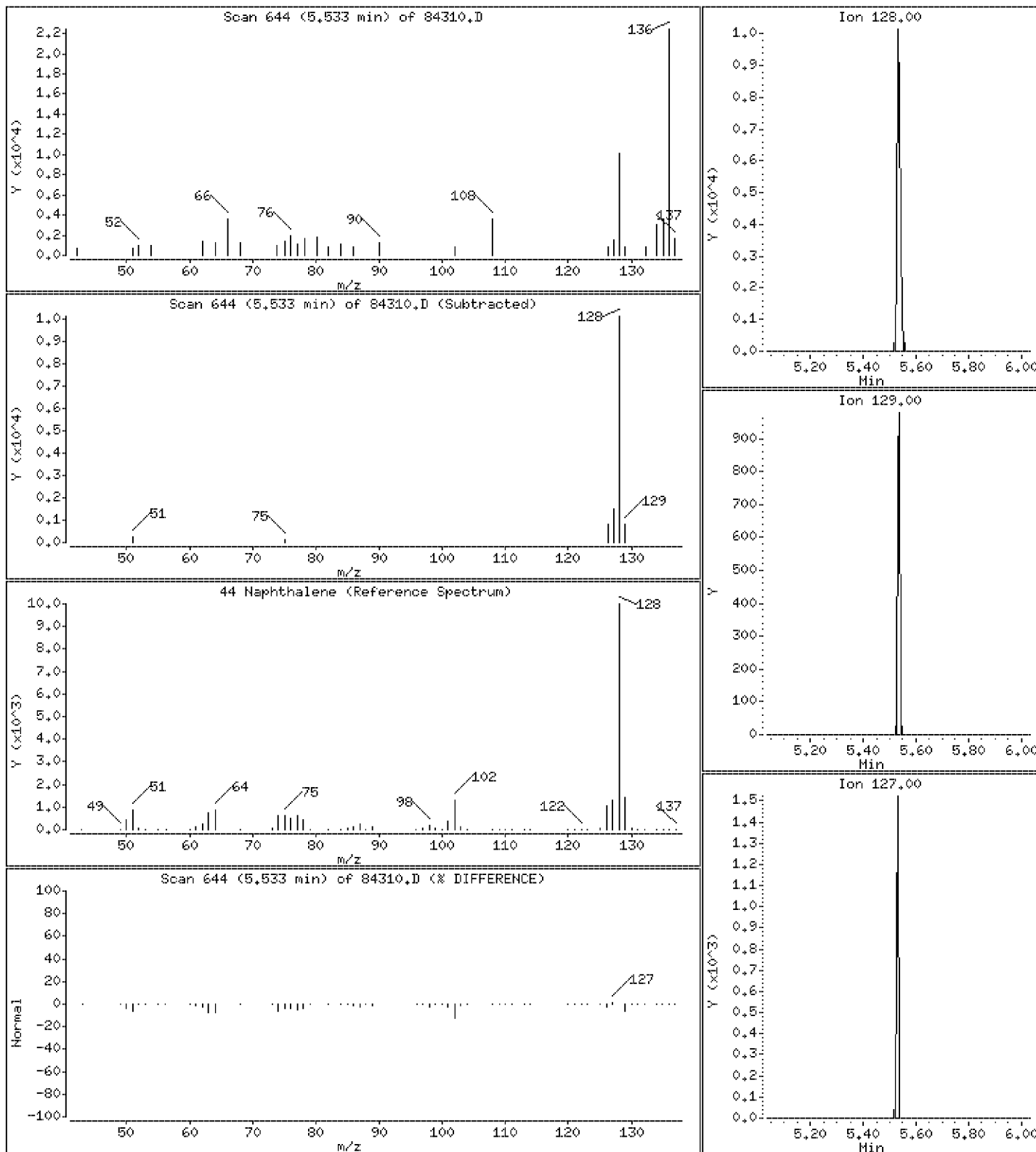
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

44 Naphthalene

Concentration: 16.5 ug/kg



Date : 04-MAY-2012 16:32

Client ID: EPAFMC-SD-14

Instrument: smsd03.i

Sample Info: SW350584310

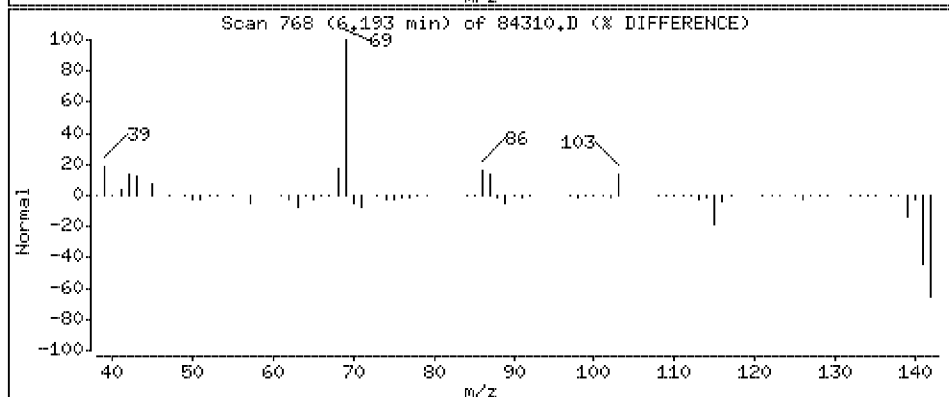
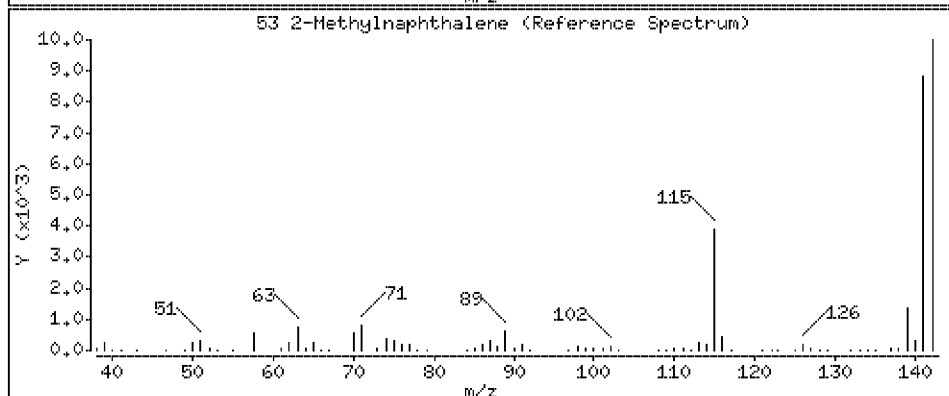
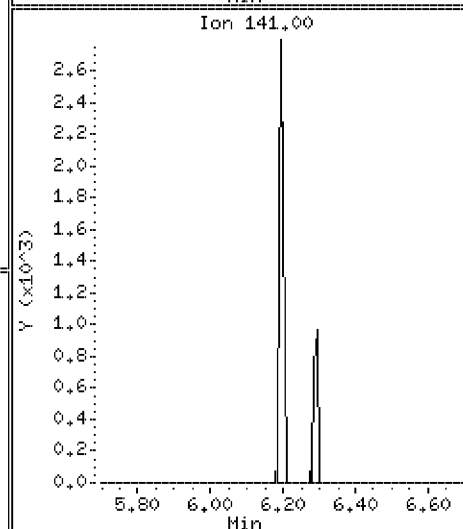
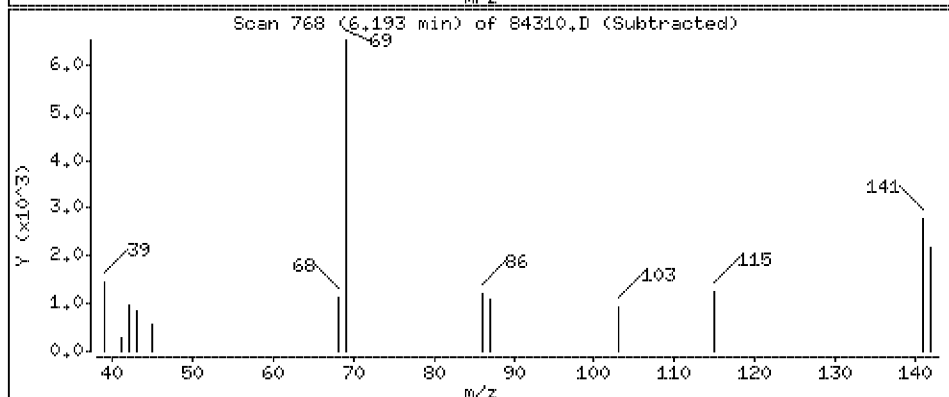
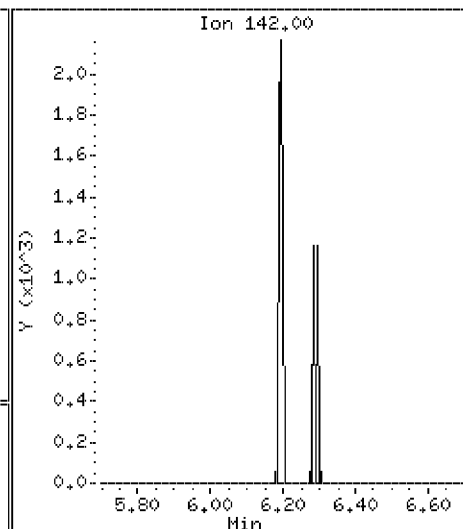
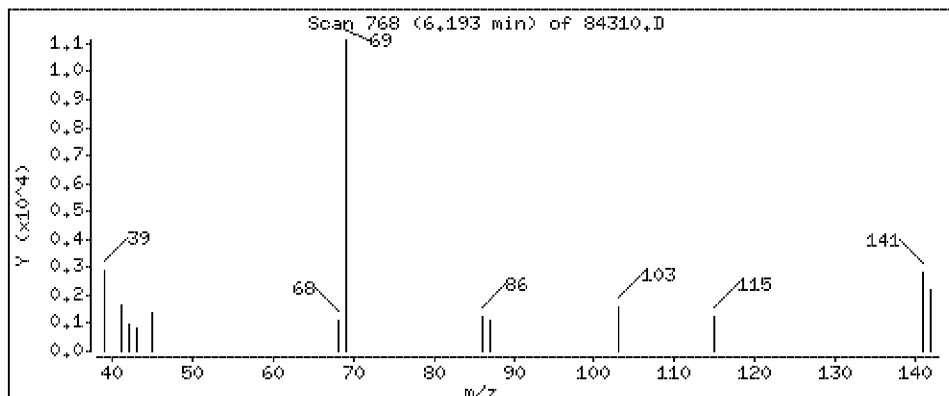
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

53 2-Methylnaphthalene

Concentration: 4.4 ug/kg



Date : 04-MAY-2012 16:32

Client ID: EPAFMC-SD-14

Instrument: smsd03.i

Sample Info: SW350584310

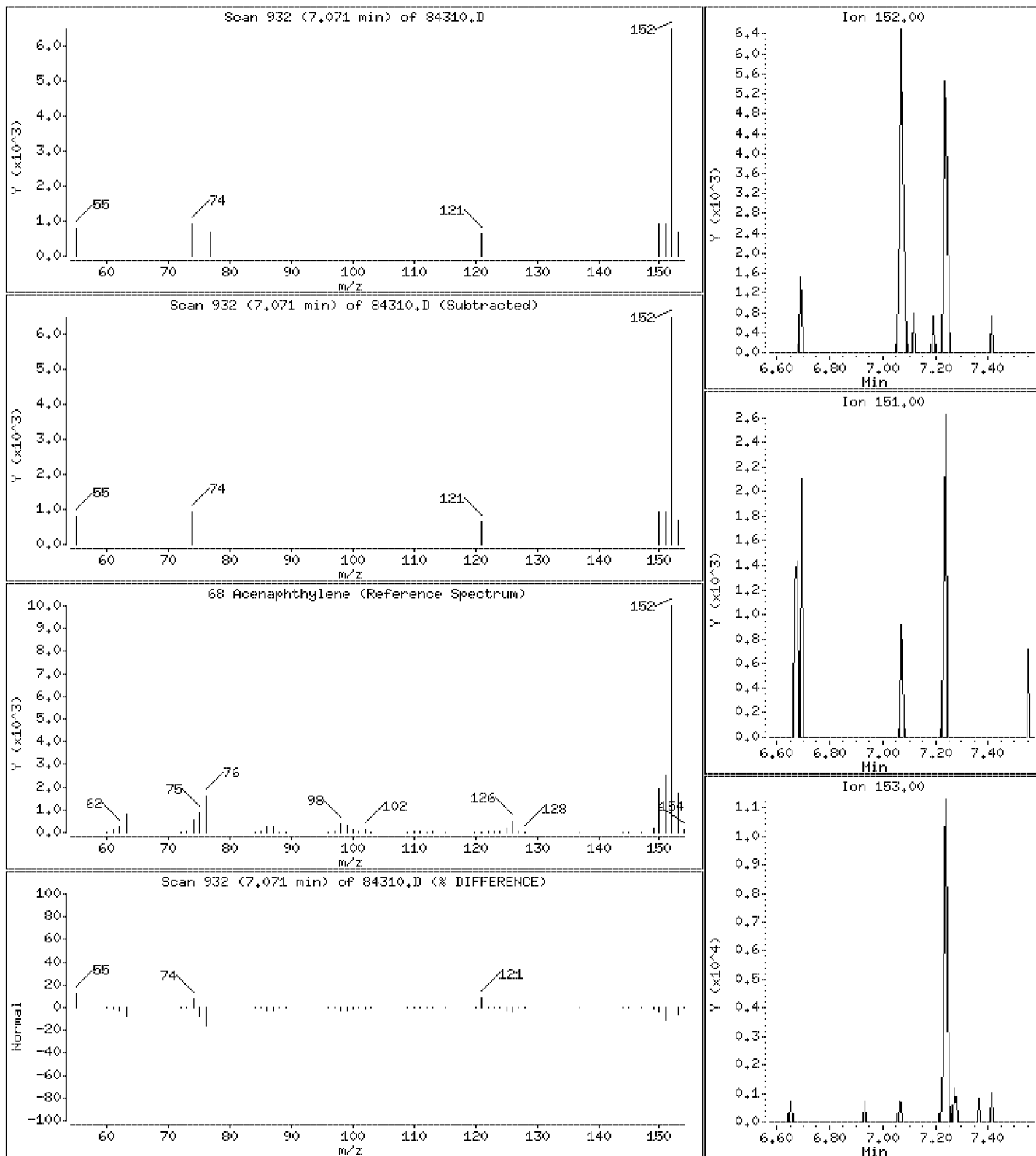
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

68 Acenaphthylene

Concentration: 10 ug/kg



Date : 04-MAY-2012 16:32

Client ID: EPAFMC-SD-14

Instrument: smsd03.i

Sample Info: SW350584310

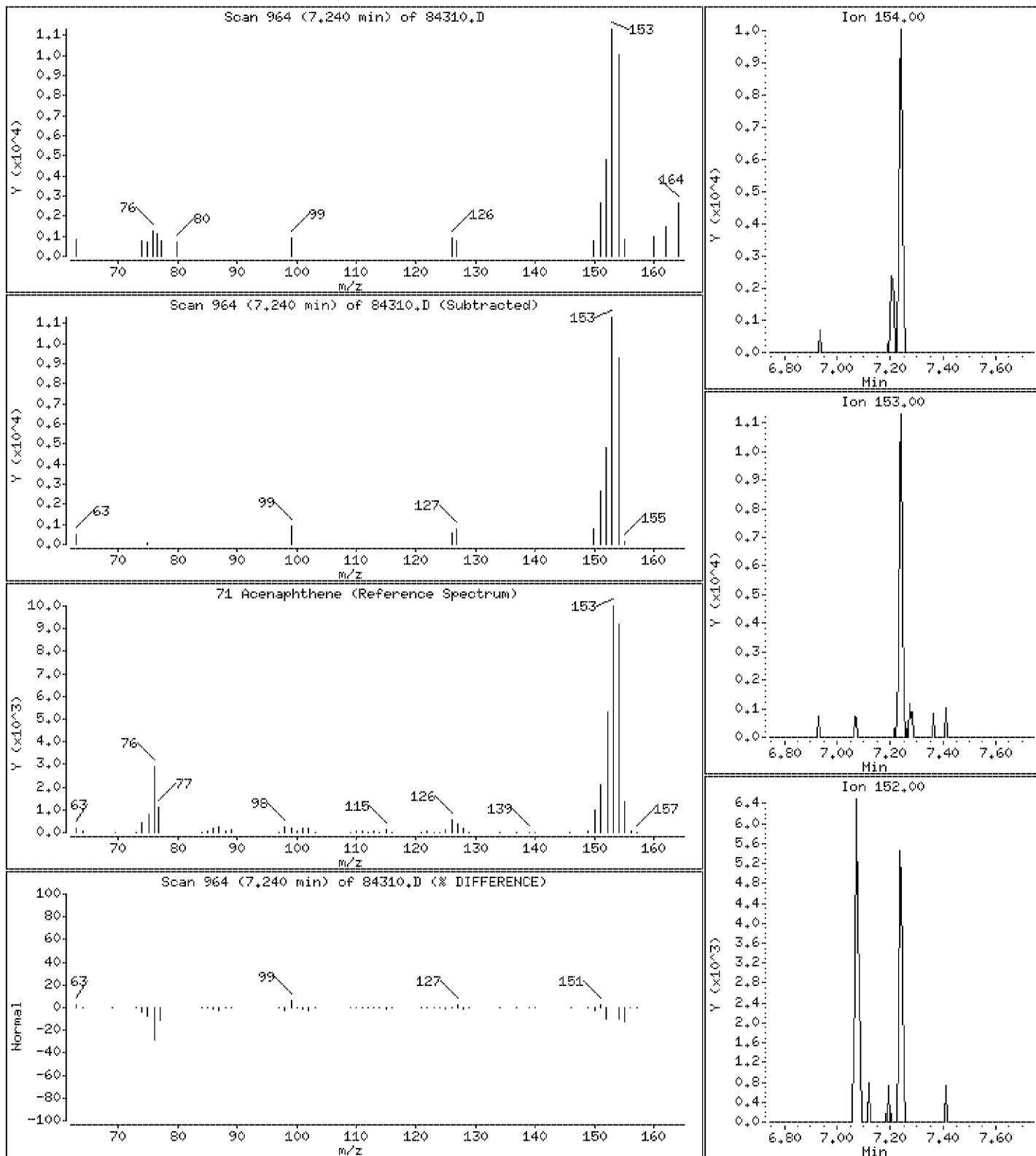
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

71 Acenaphthene

Concentration: 24.6 ug/kg



Date : 04-MAY-2012 16:32

Client ID: EPAFMC-SD-14

Instrument: smsd03.i

Sample Info: SW350584310

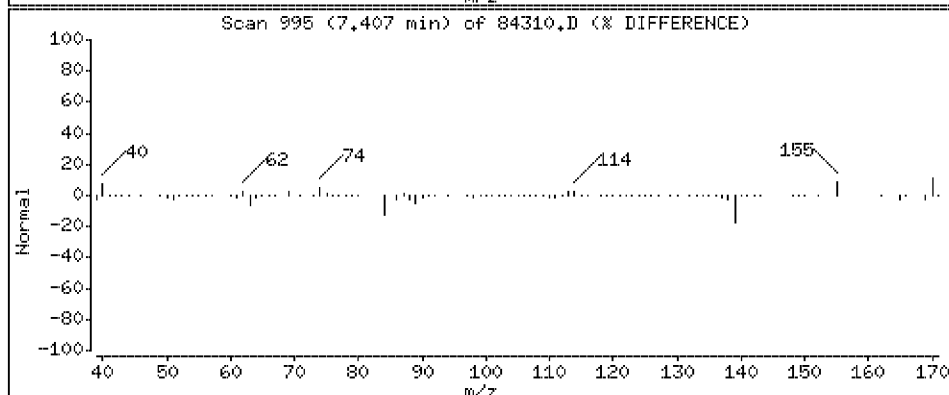
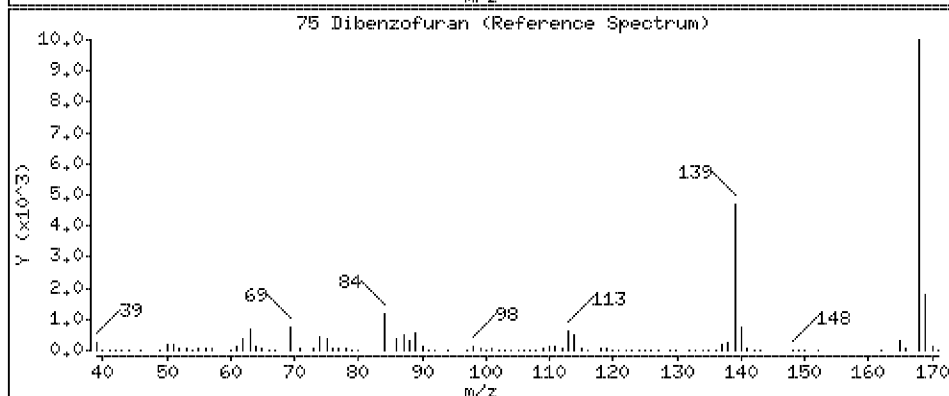
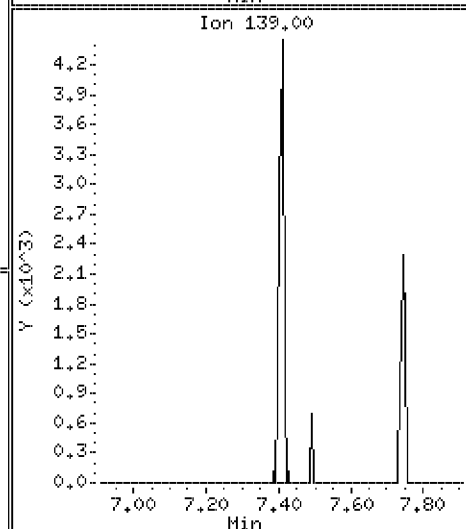
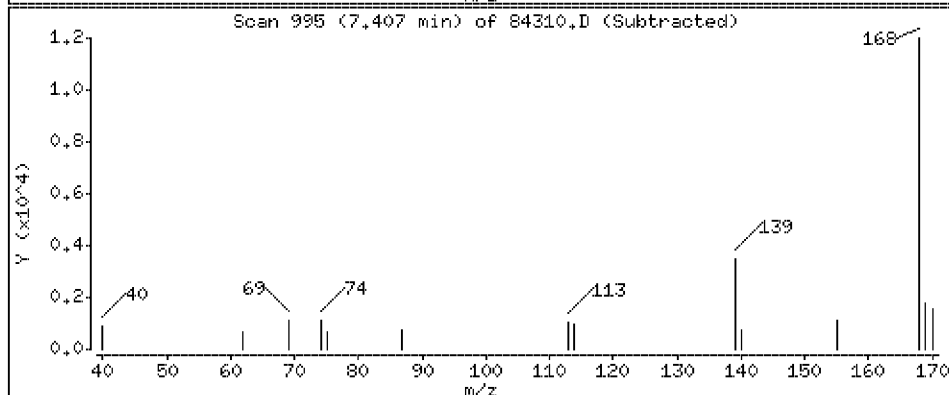
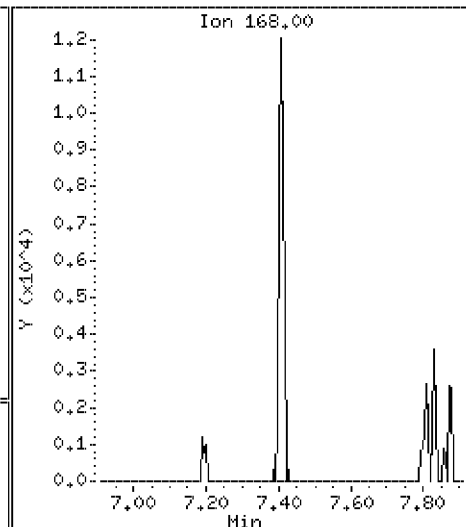
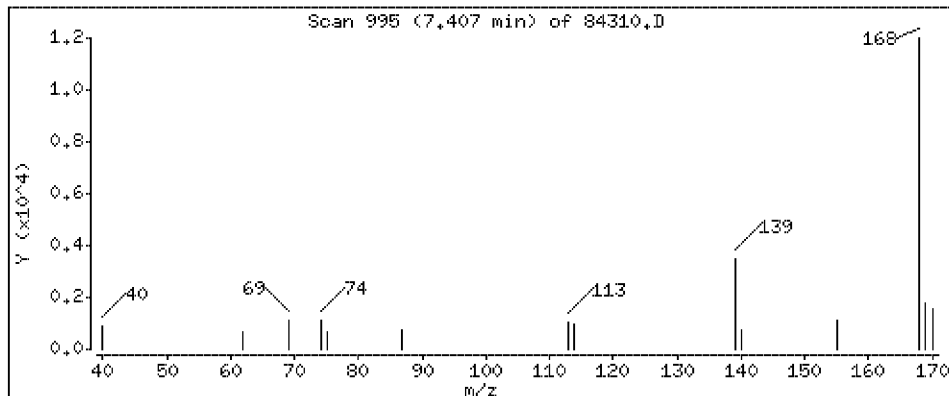
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

75 Dibenzofuran

Concentration: 18.9 ug/kg



Date : 04-MAY-2012 16:32

Client ID: EPAFMC-SD-14

Instrument: smsd03.i

Sample Info: SW350584310

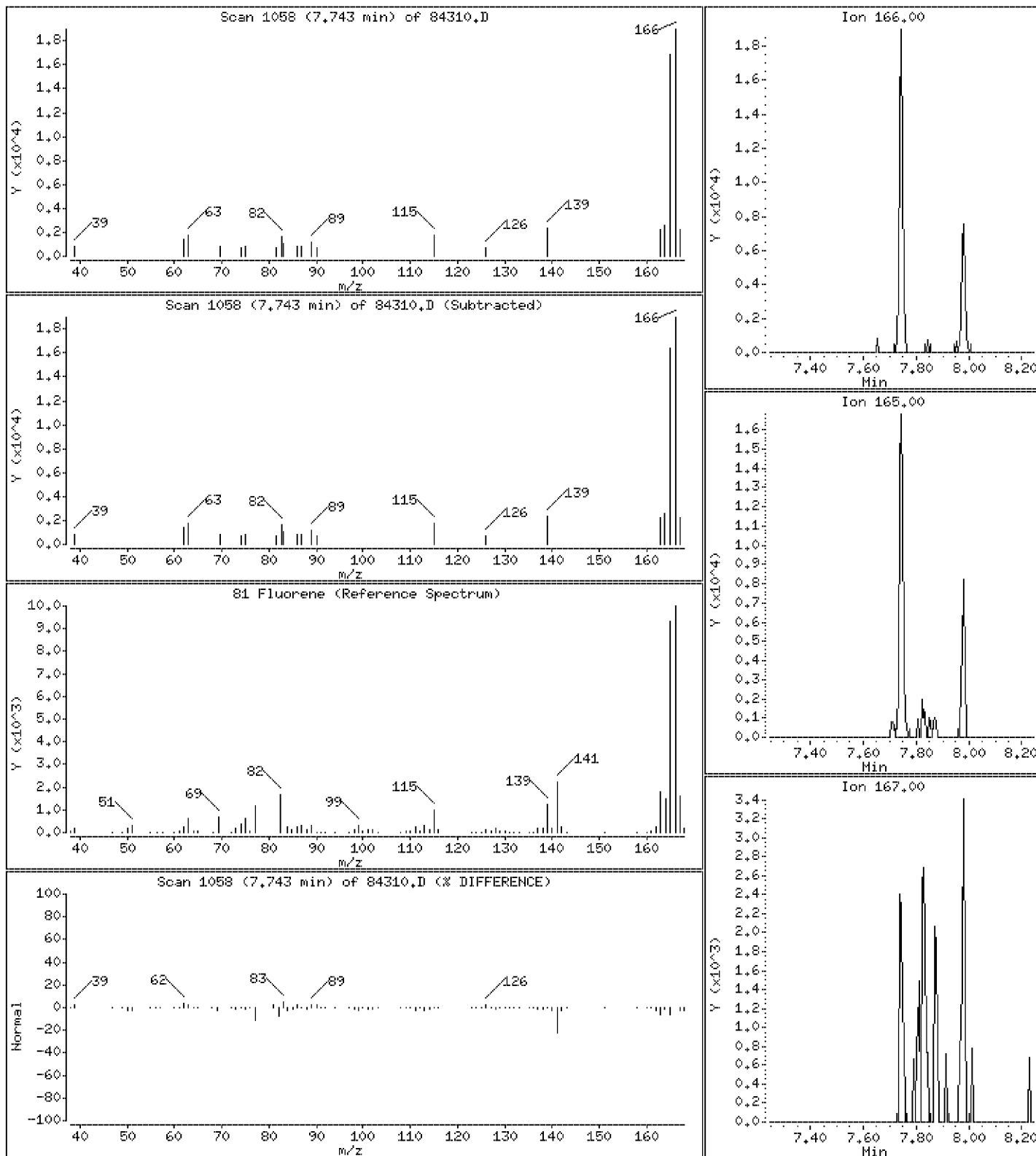
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

81 Fluorene

Concentration: 32.6 ug/kg



Date : 04-MAY-2012 16:32

Client ID: EPAFMC-SD-14

Instrument: smsd03.i

Sample Info: SW350584310

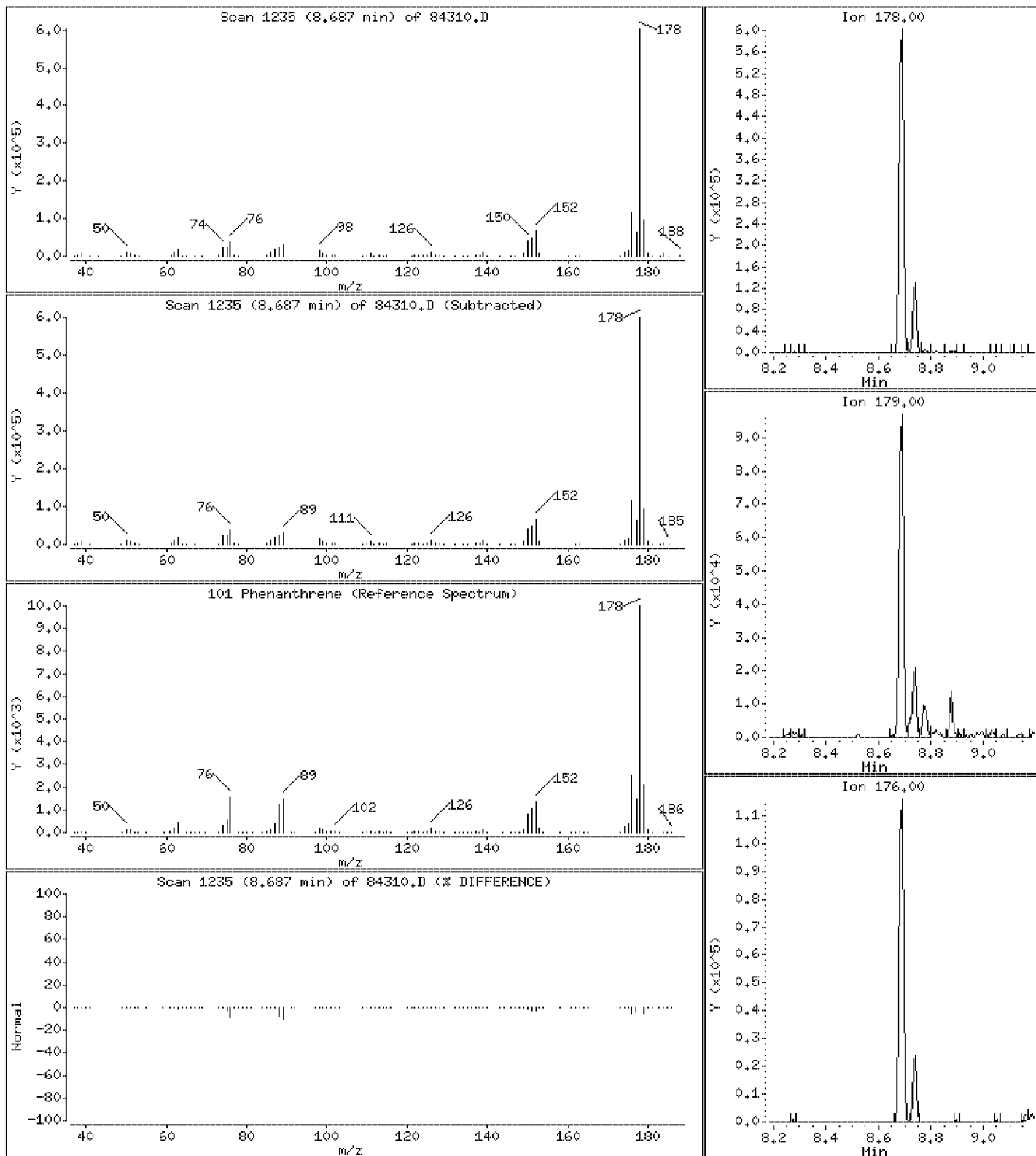
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

101 Phenanthrene

Concentration: 730 ug/kg



Date : 04-MAY-2012 16:32

Client ID: EPAFMC-SD-14

Instrument: smsd03.i

Sample Info: SW350584310

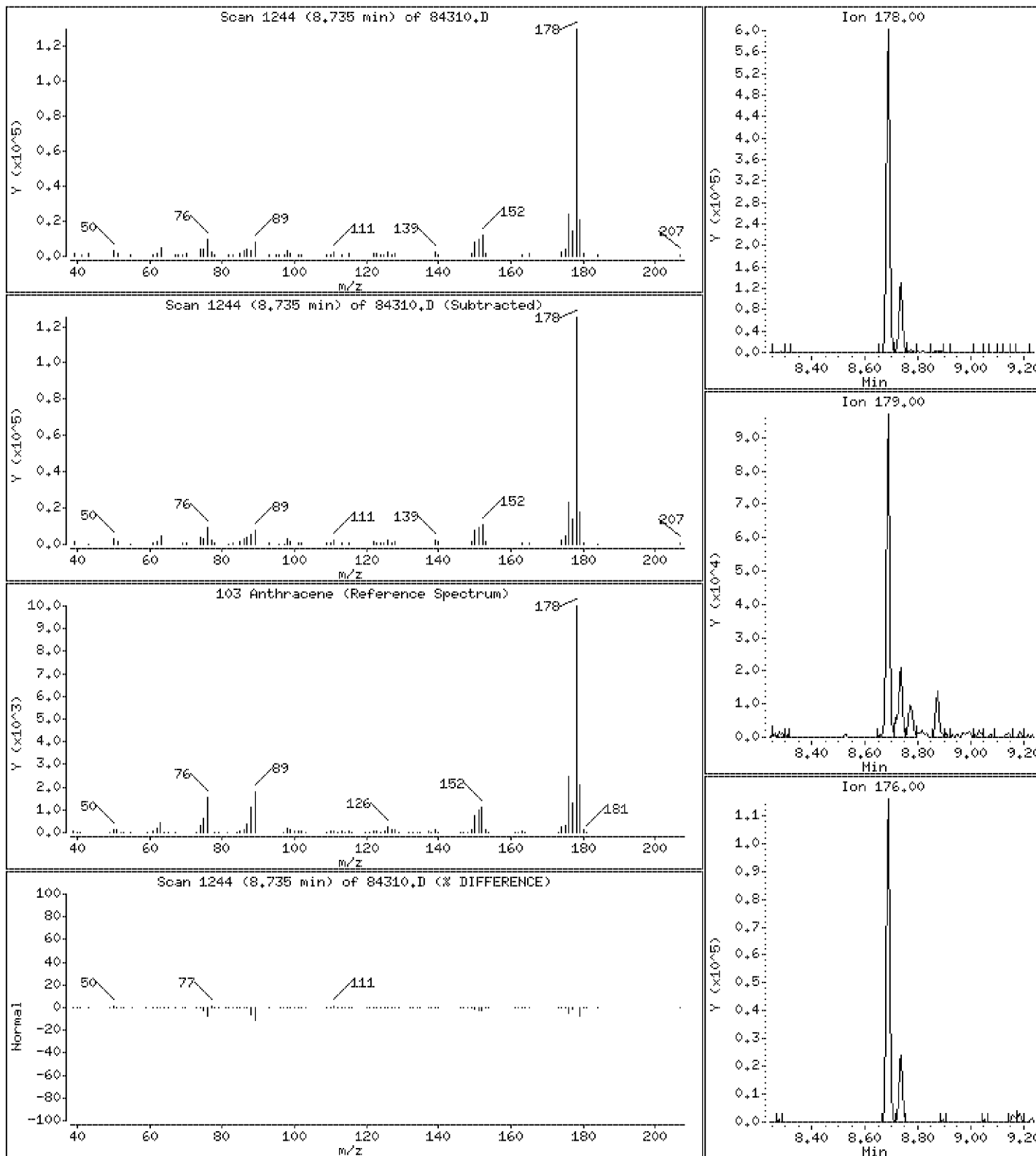
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

103 Anthracene

Concentration: 169 ug/kg



Date : 04-MAY-2012 16:32

Client ID: EPAFMC-SD-14

Instrument: smsd03.i

Sample Info: SW350584310

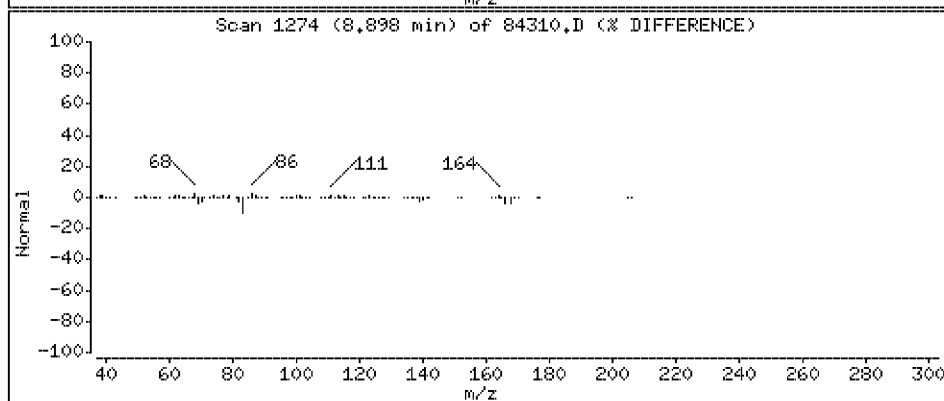
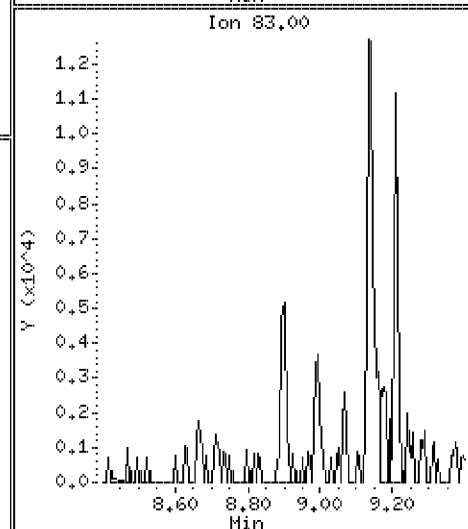
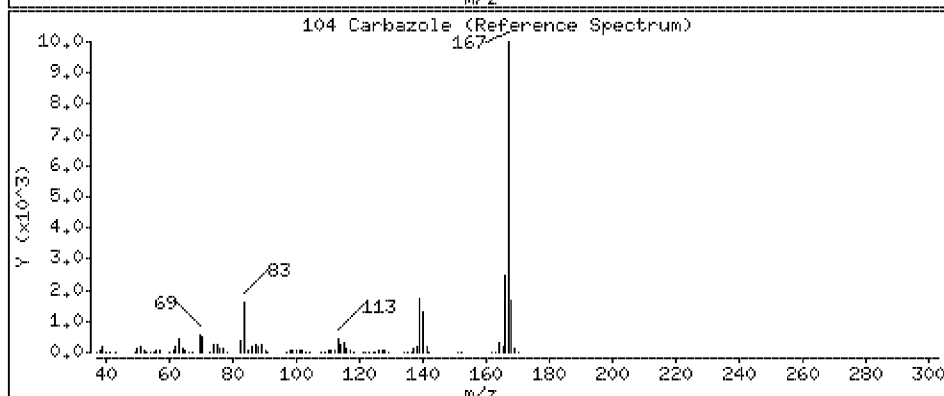
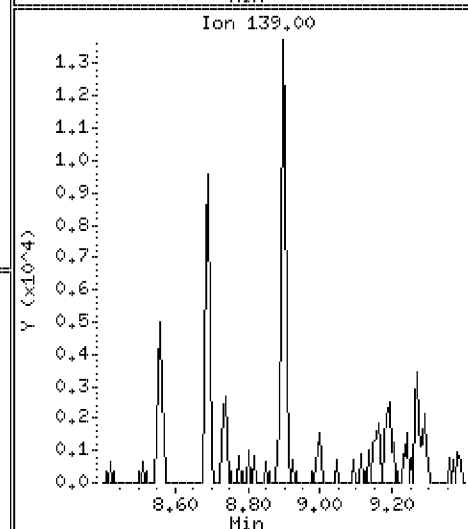
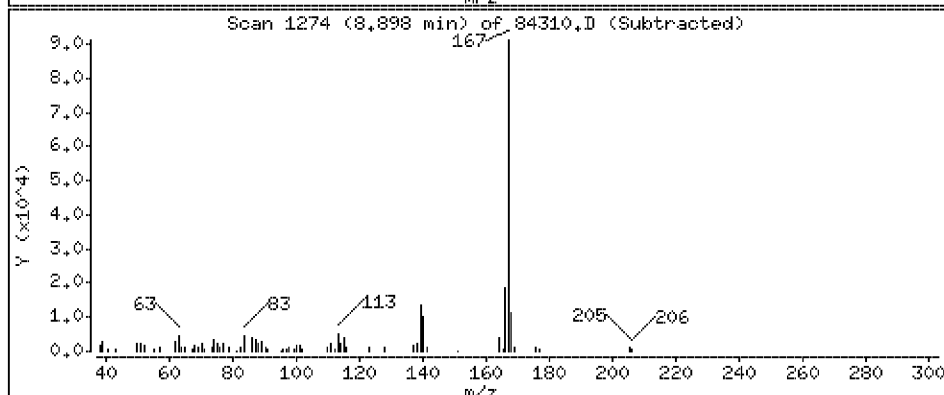
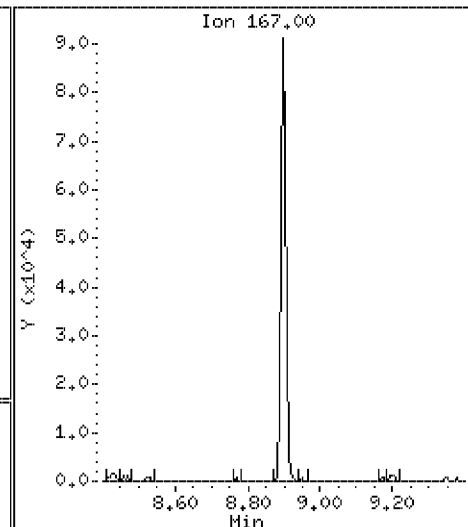
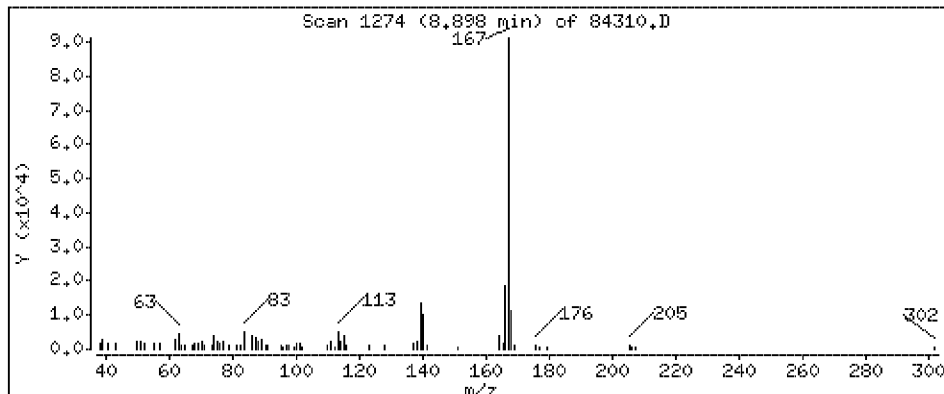
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

104 Carbazole

Concentration: 142 ug/kg



Date : 04-MAY-2012 16:32

Client ID: EPAFMC-SD-14

Instrument: smsd03.i

Sample Info: SW350584310

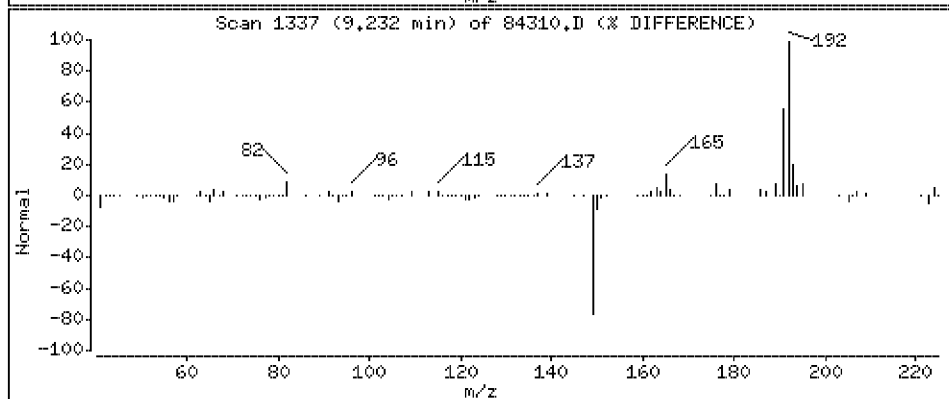
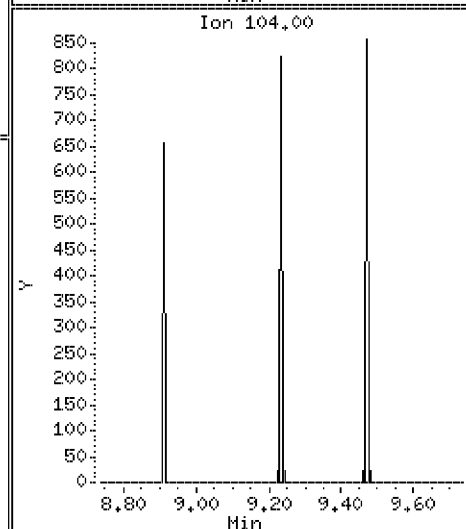
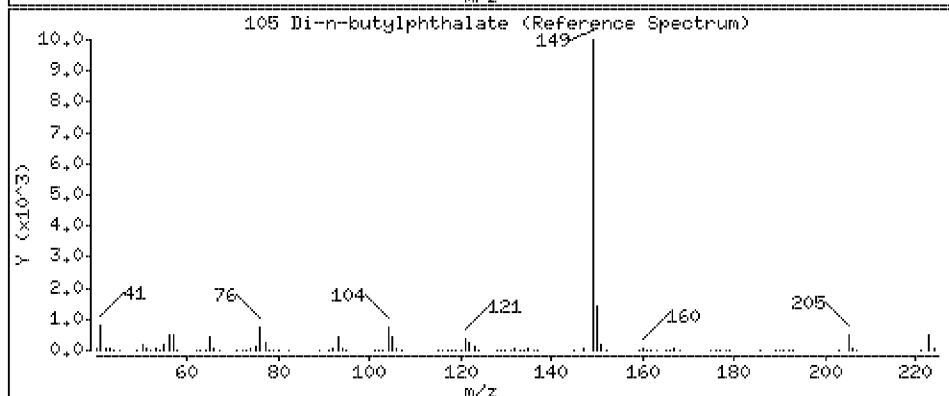
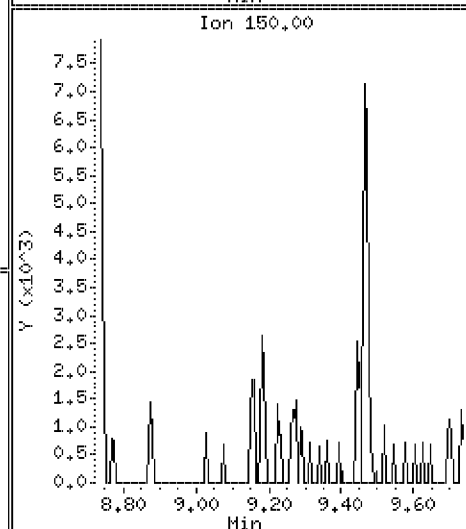
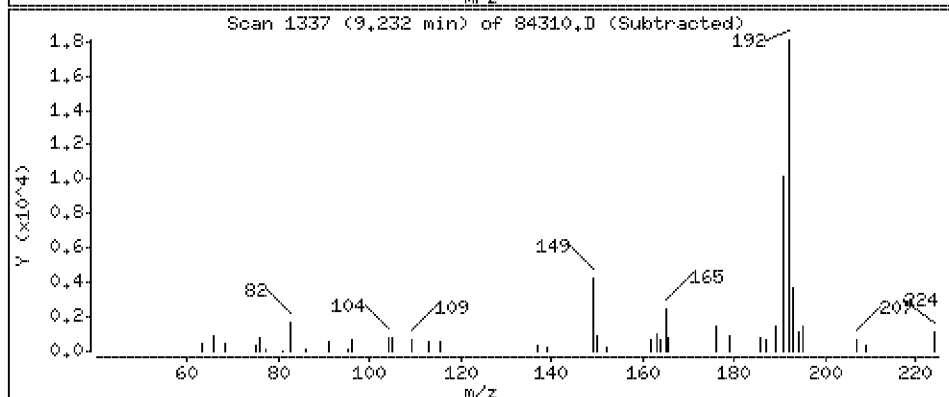
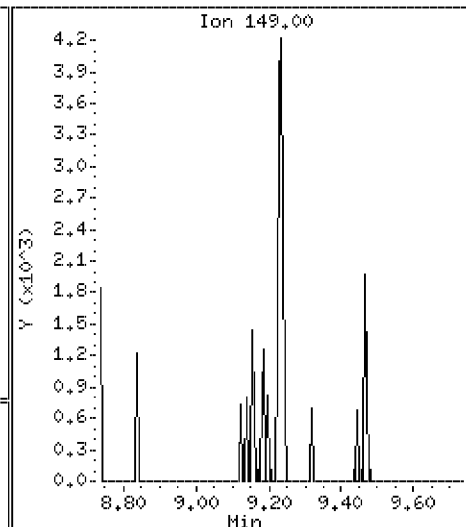
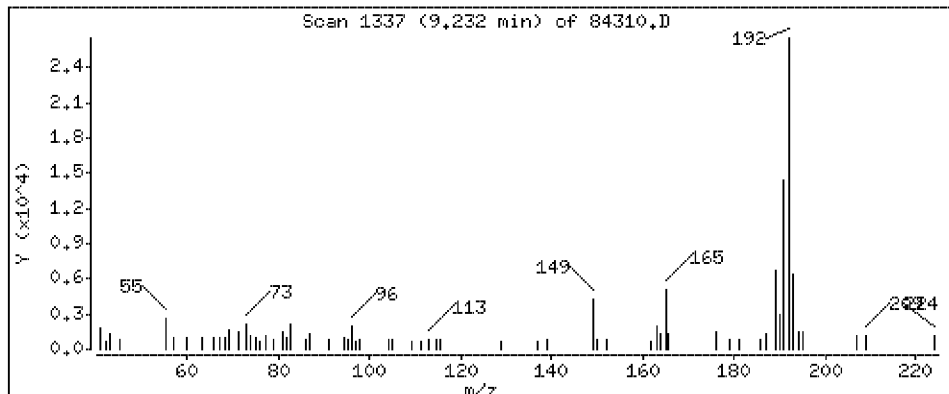
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

105 Di-n-butylphthalate

Concentration: 5.1 ug/kg



Date : 04-MAY-2012 16:32

Client ID: EPAFMC-SD-14

Instrument: smsd03.i

Sample Info: SW350584310

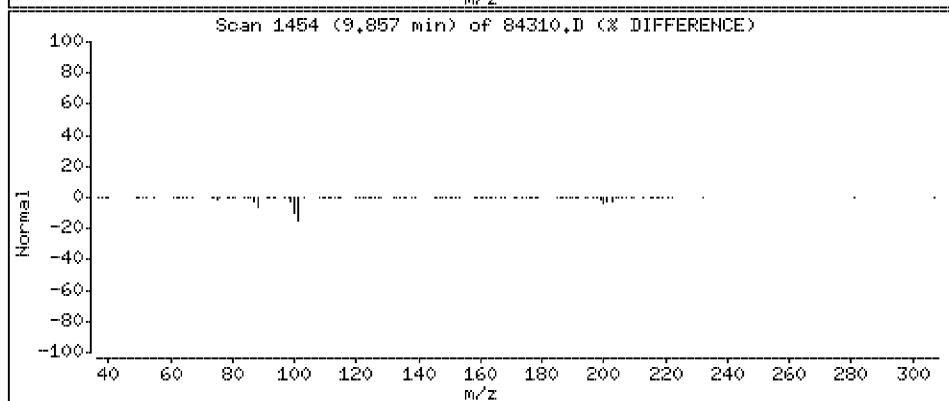
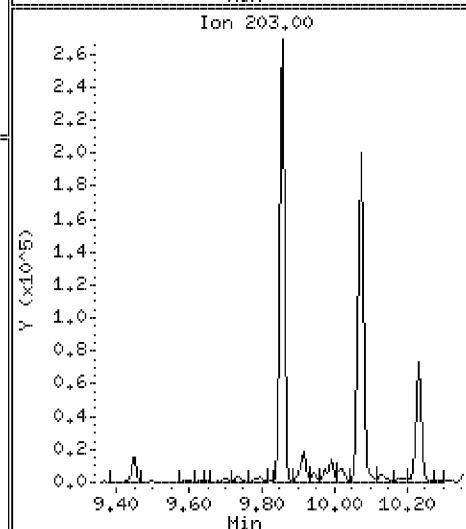
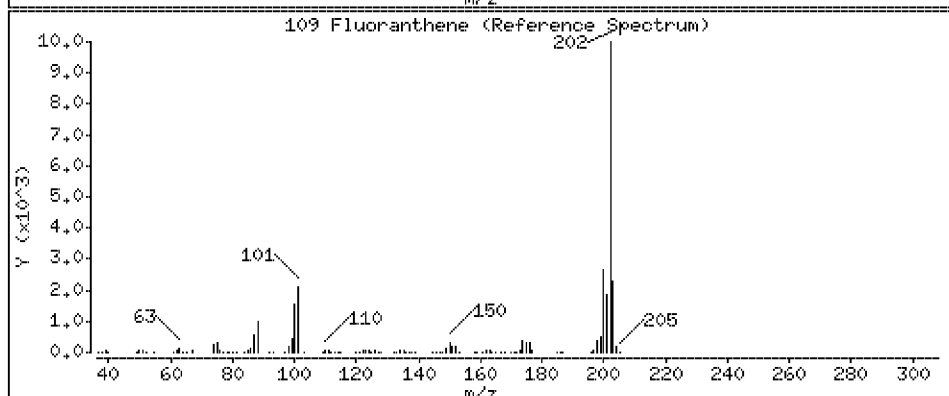
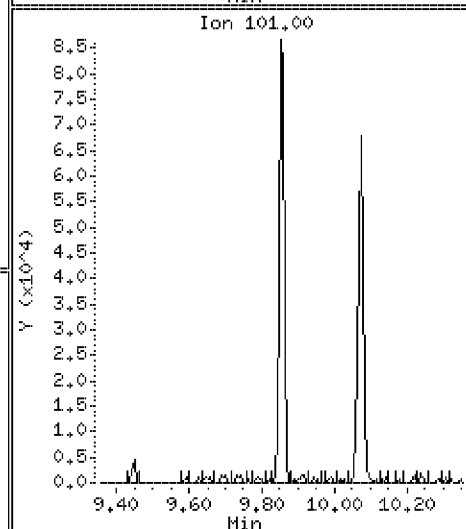
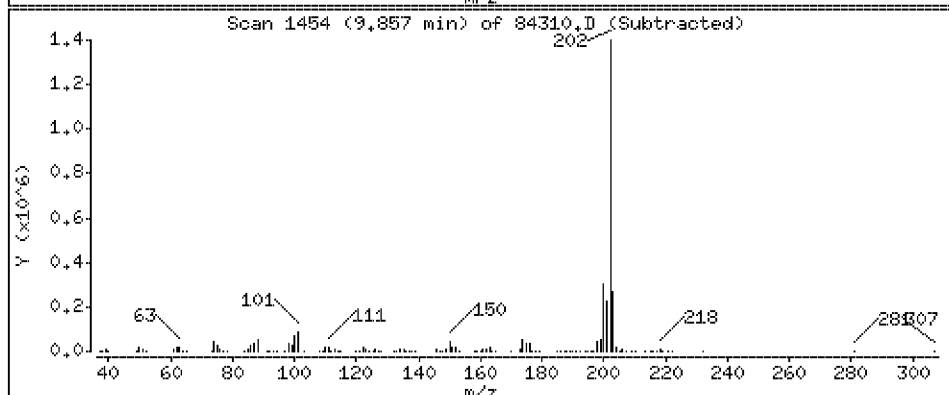
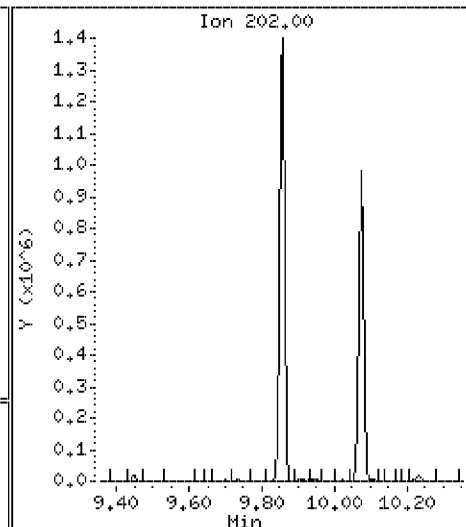
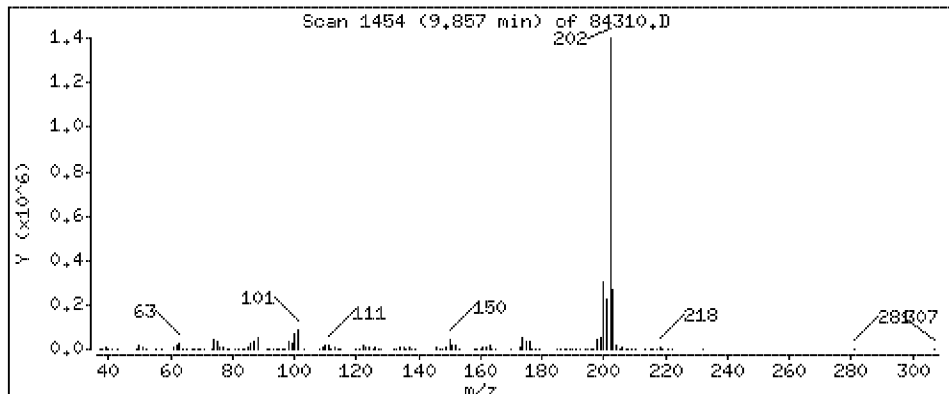
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

109 Fluoranthene

Concentration: 1580 ug/kg



Date : 04-MAY-2012 16:32

Client ID: EPAFMC-SD-14

Instrument: smsd03.i

Sample Info: SW350584310

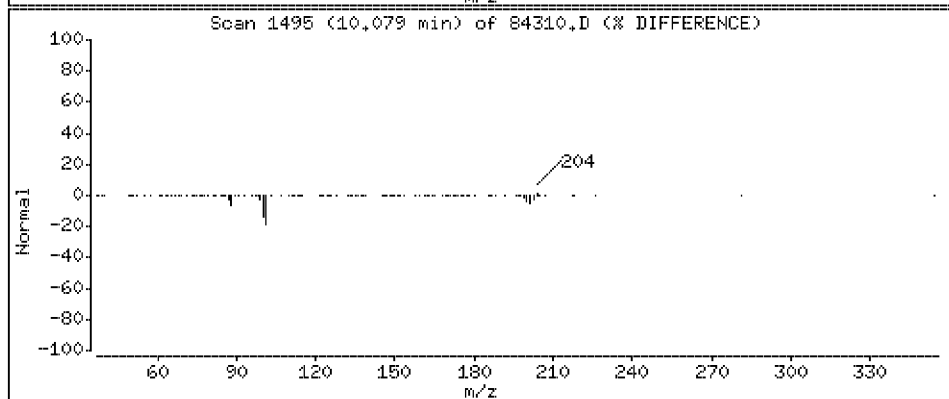
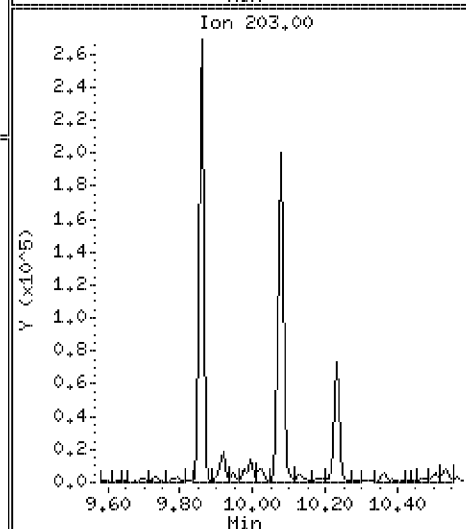
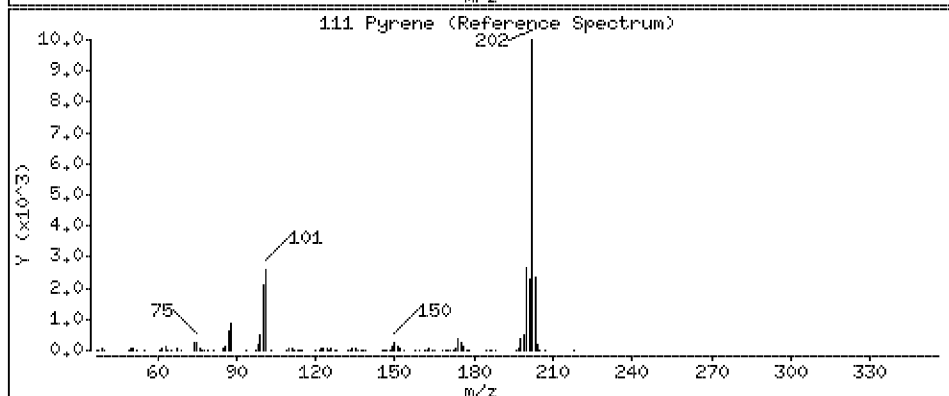
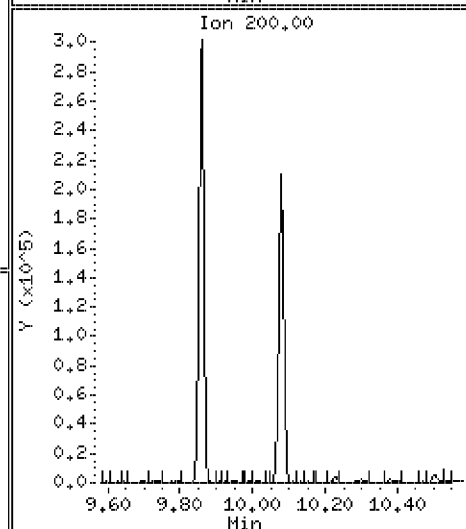
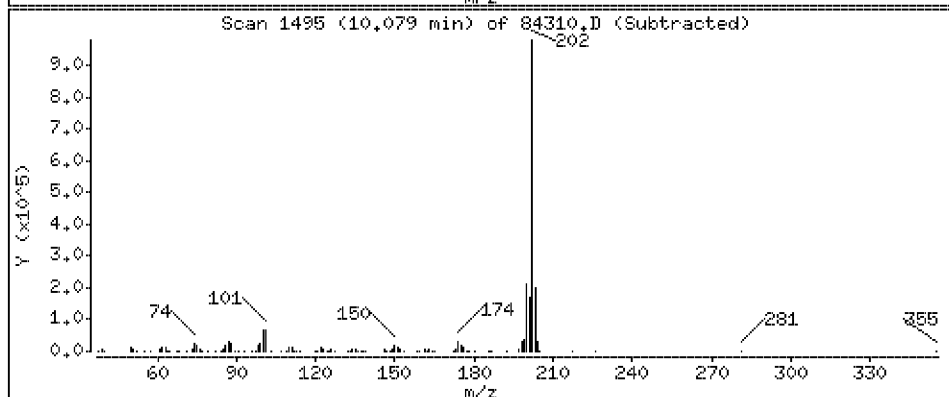
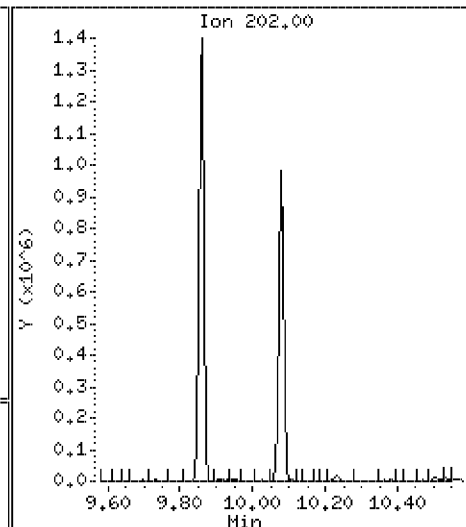
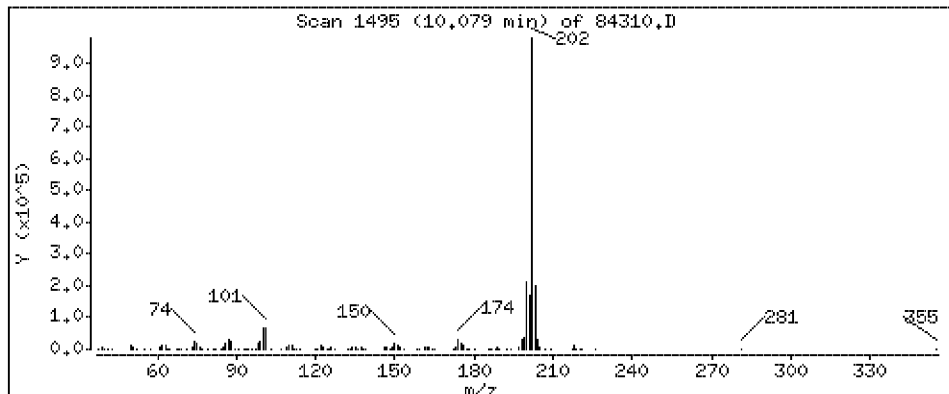
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

111 Pyrene

Concentration: 1200 ug/kg



Date : 04-MAY-2012 16:32

Client ID: EPAFMC-SD-14

Instrument: smsd03.i

Sample Info: SW350584310

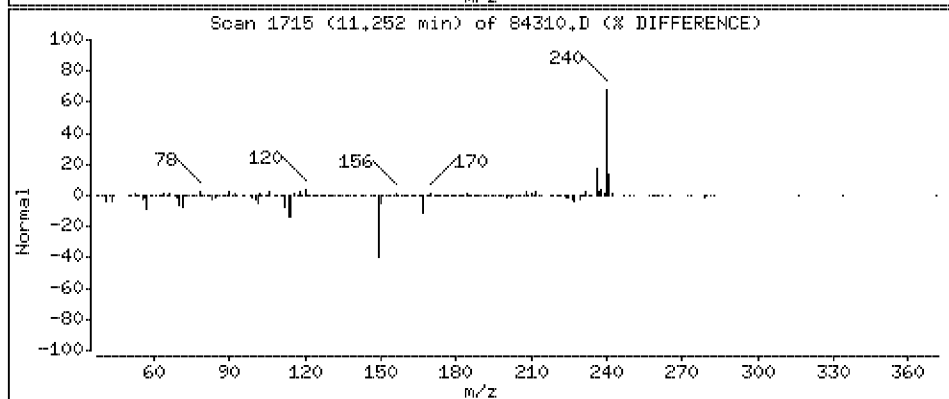
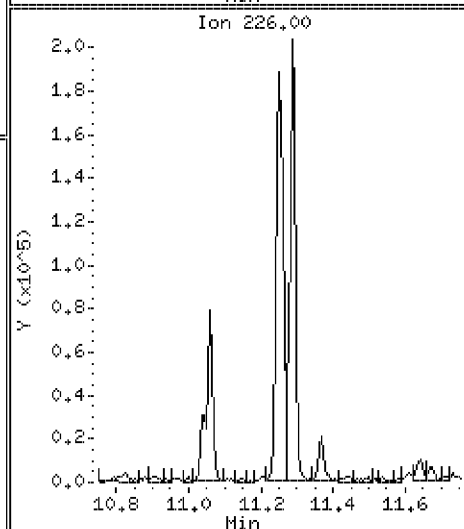
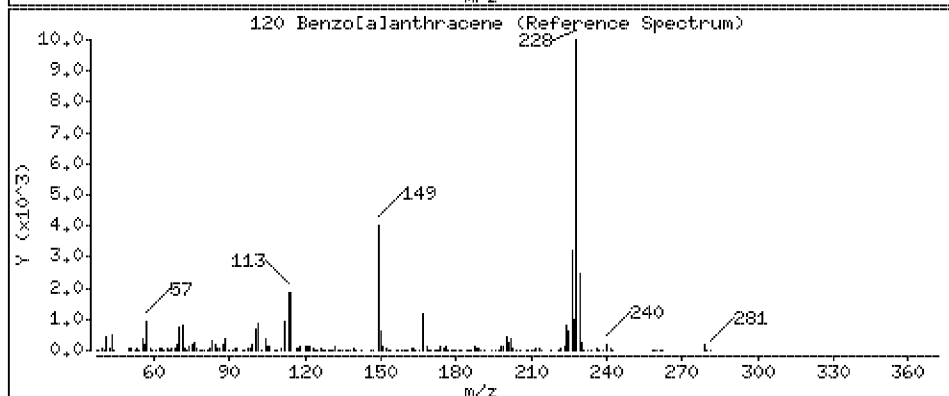
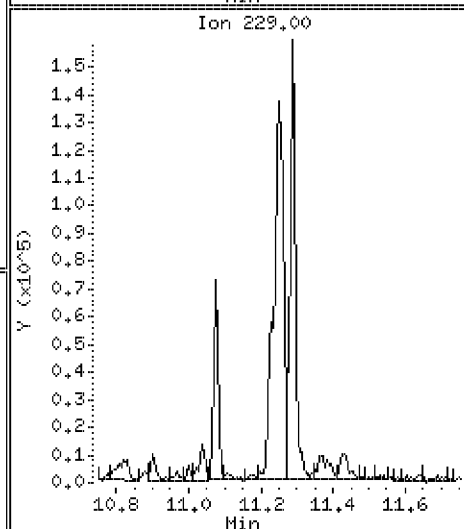
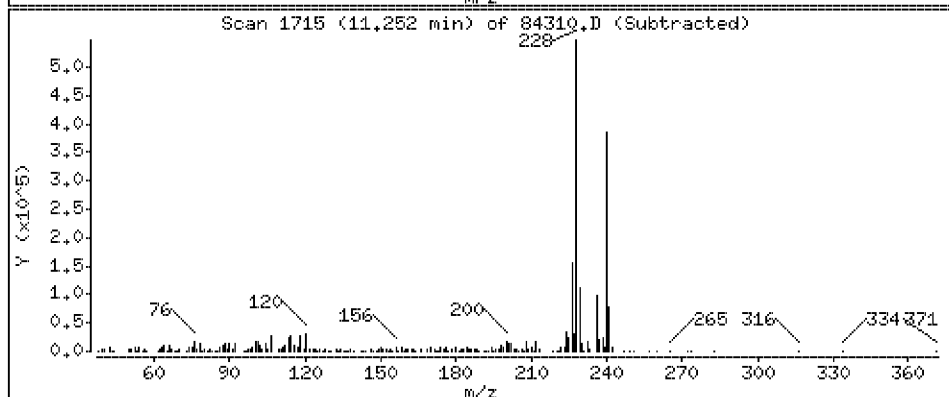
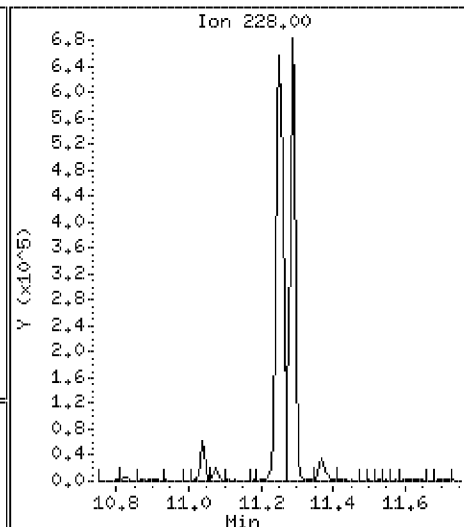
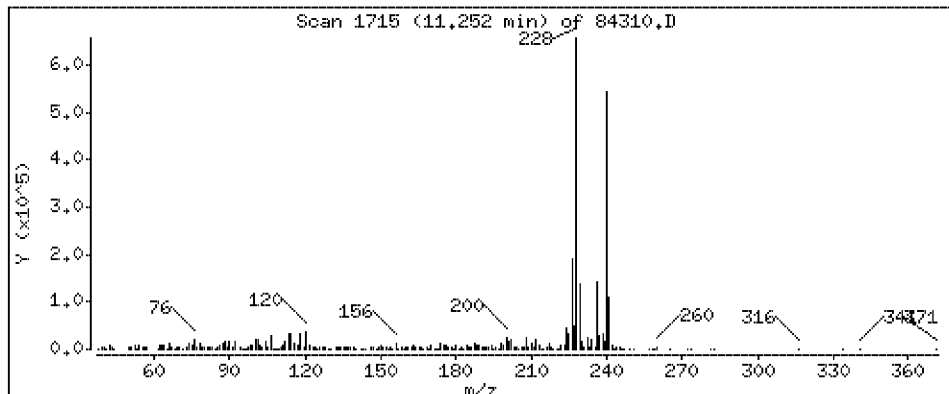
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

120 Benzo[*a*]anthracene

Concentration: 767 ug/kg



Date : 04-MAY-2012 16:32

Client ID: EPAFMC-SD-14

Instrument: smsd03.i

Sample Info: SW350584310

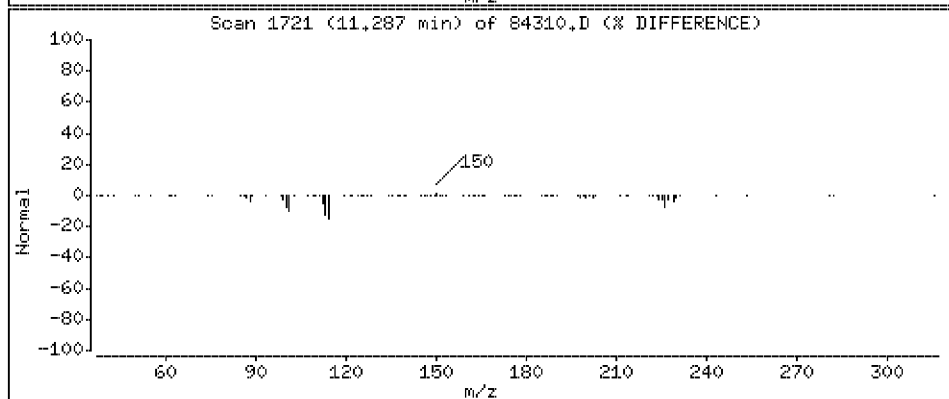
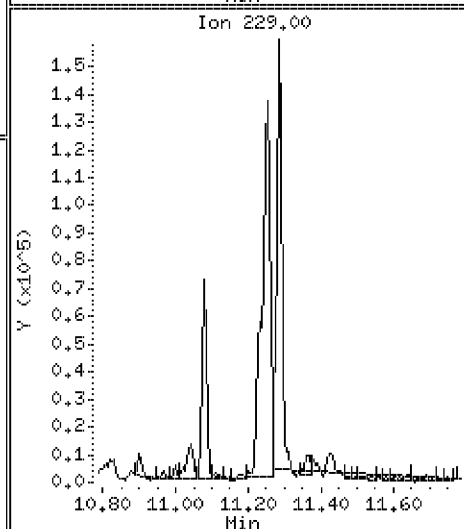
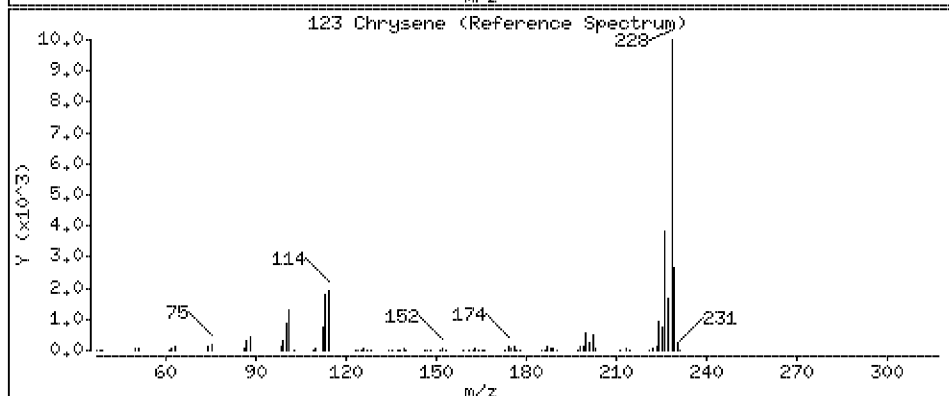
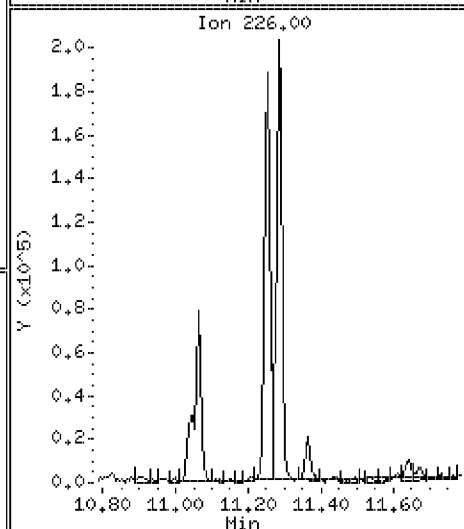
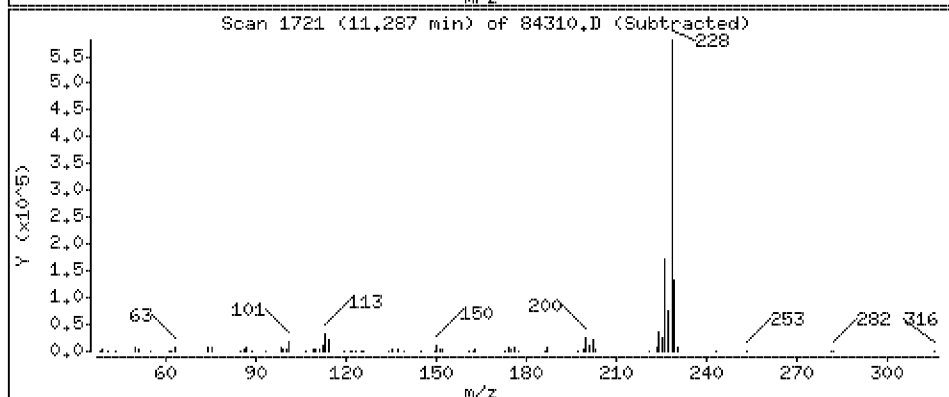
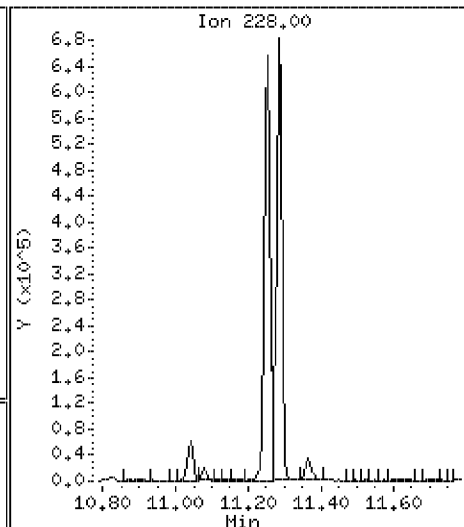
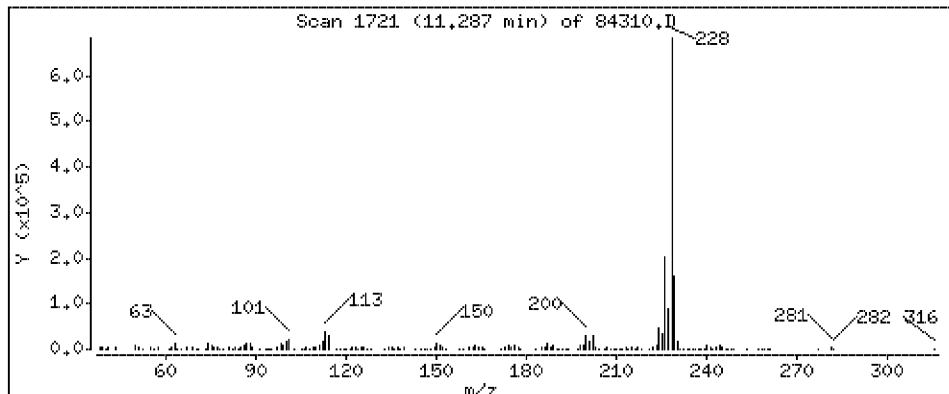
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

123 Chrysene

Concentration: 815 ug/kg



Date : 04-MAY-2012 16:32

Client ID: EPAFMC-SD-14

Instrument: smsd03.i

Sample Info: SW350584310

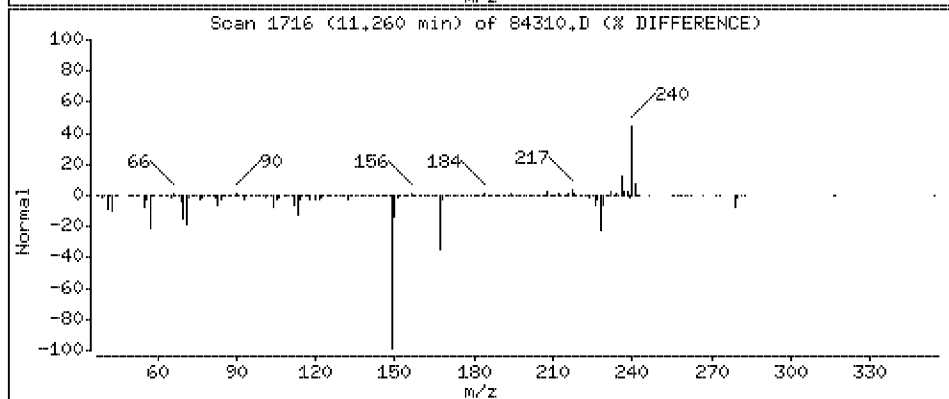
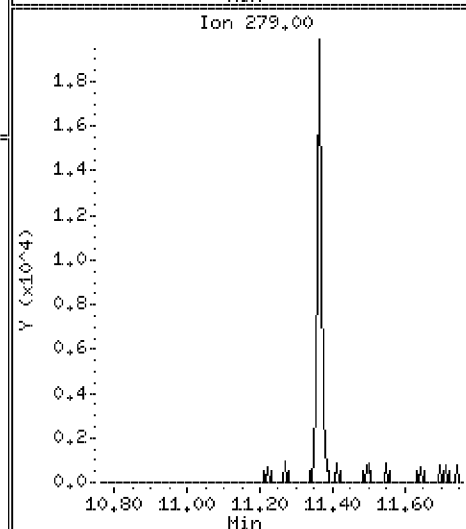
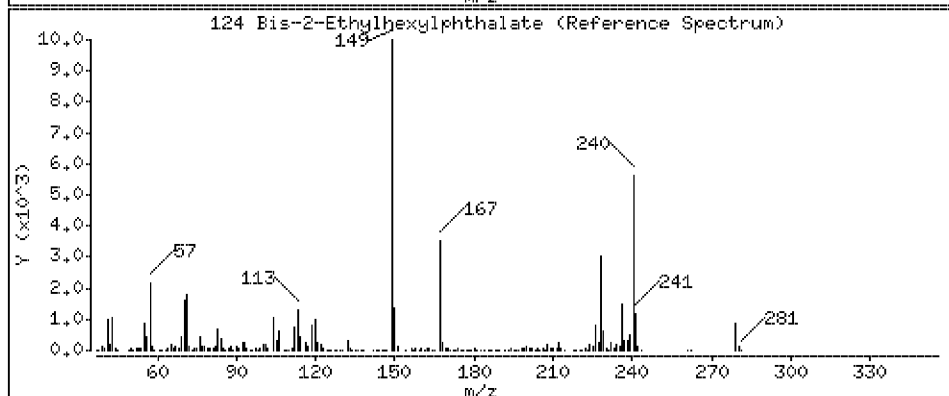
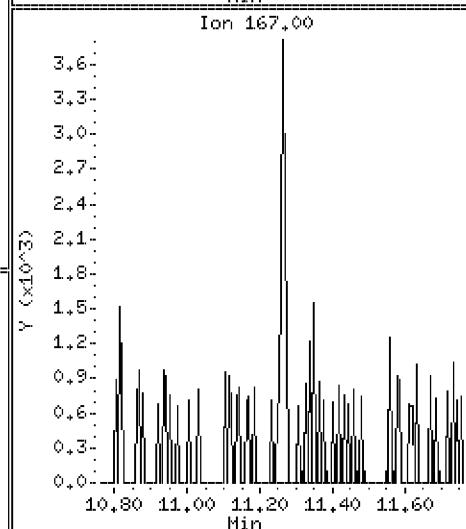
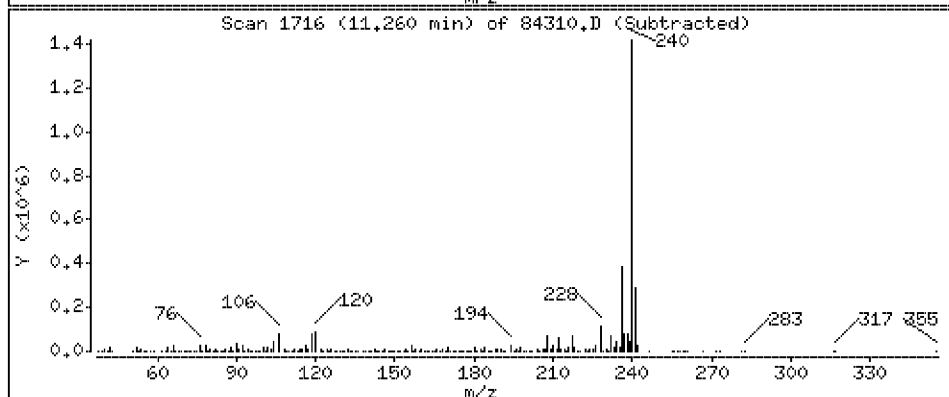
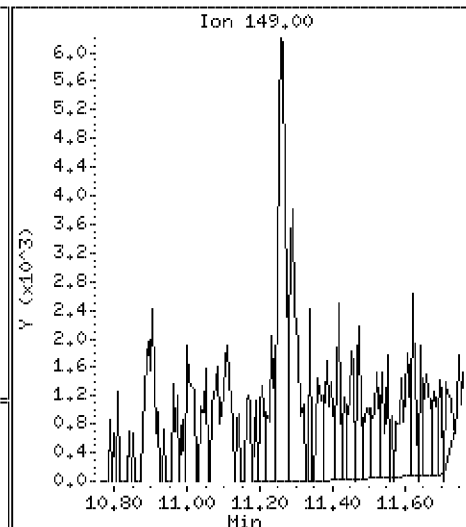
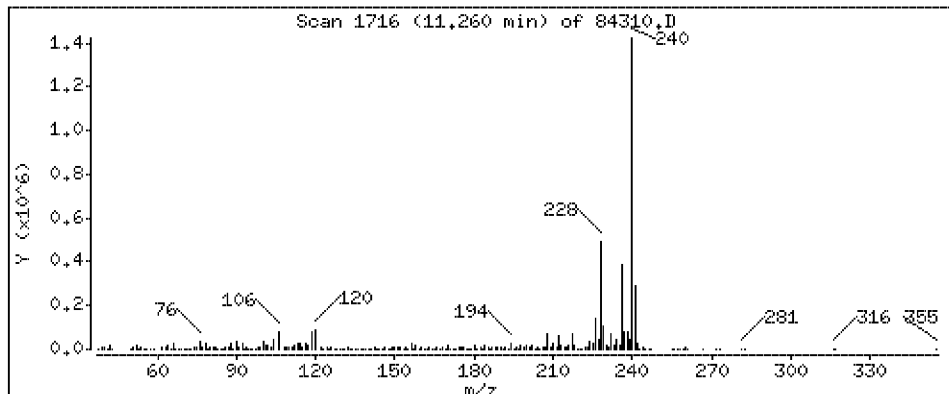
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

124 Bis-2-Ethylhexylphthalate

Concentration: 16.0 ug/kg



Date : 04-MAY-2012 16:32

Client ID: EPAFMC-SD-14

Instrument: smsd03.i

Sample Info: SW350584310

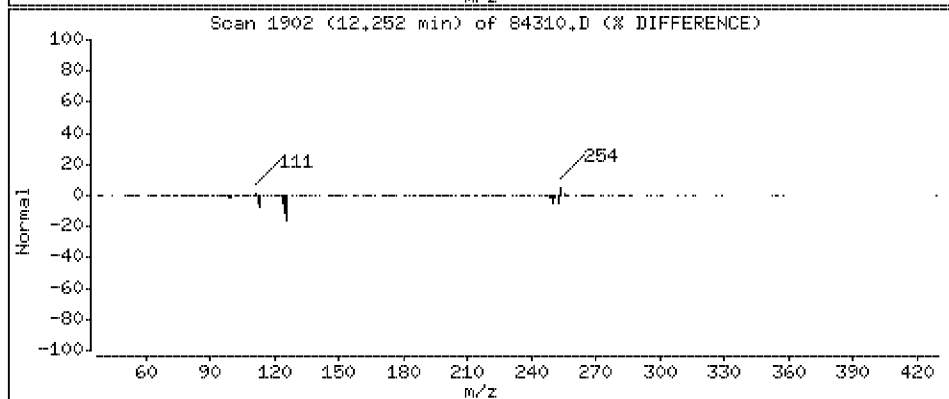
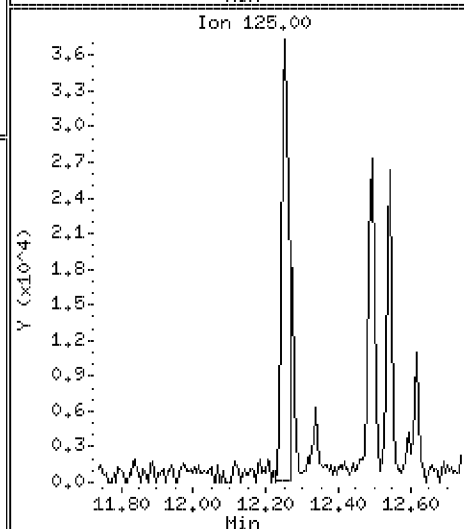
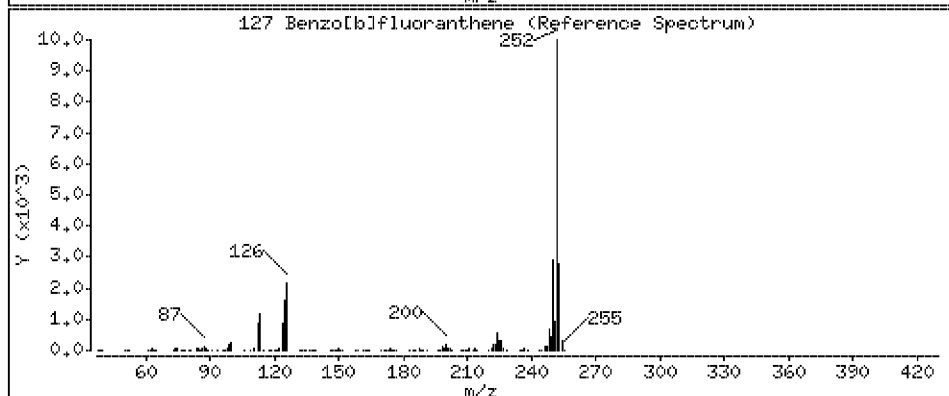
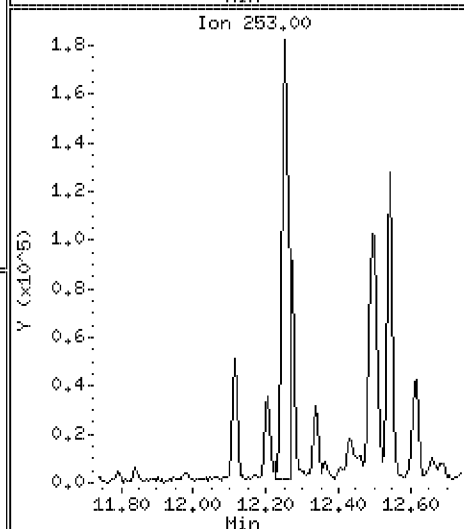
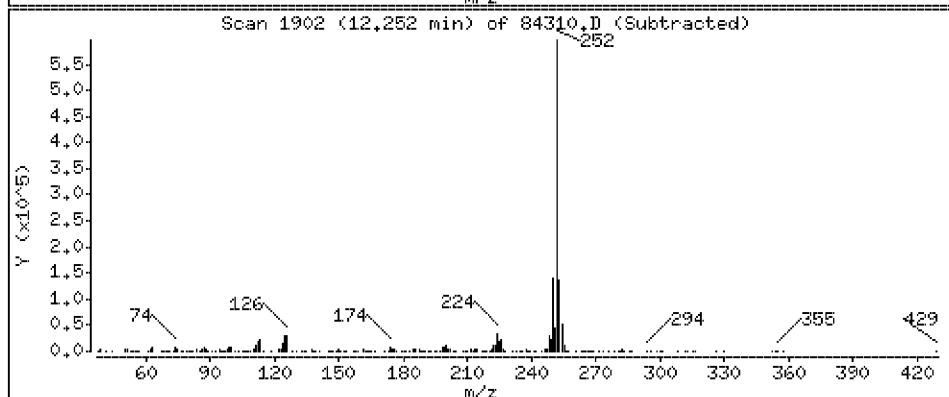
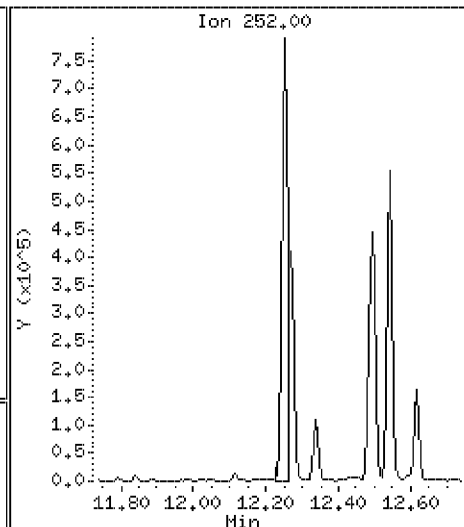
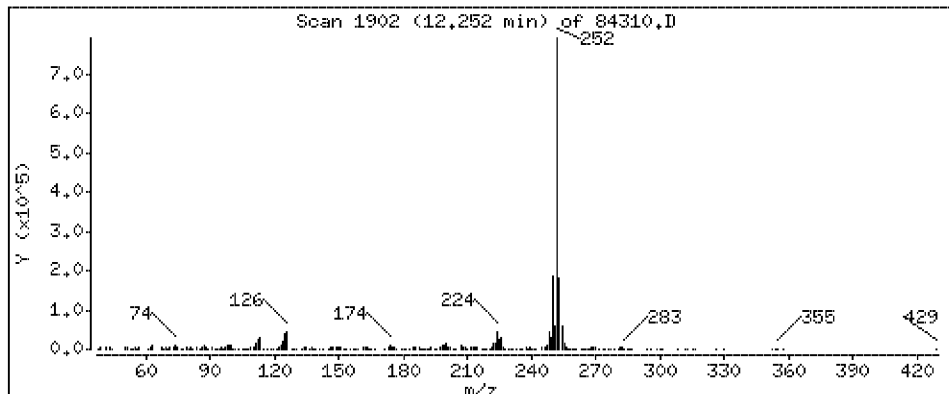
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

127 Benzo[b]fluoranthene

Concentration: 882 ug/kg



Date : 04-MAY-2012 16:32

Client ID: EPAFMC-SD-14

Instrument: smsd03.i

Sample Info: SW350584310

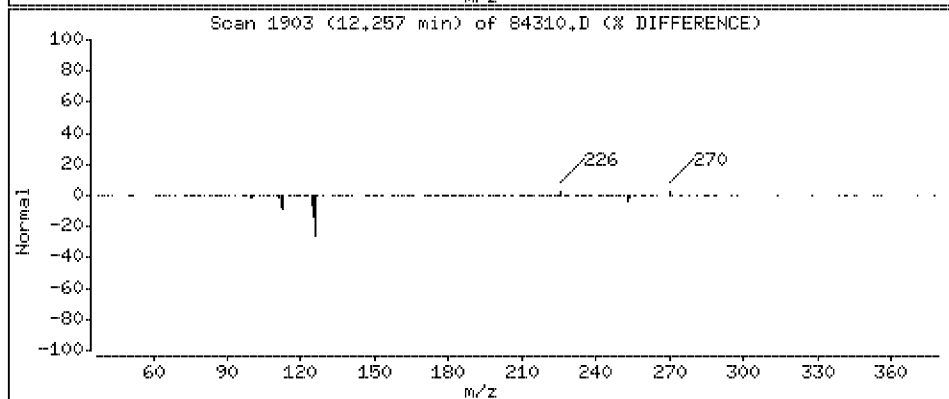
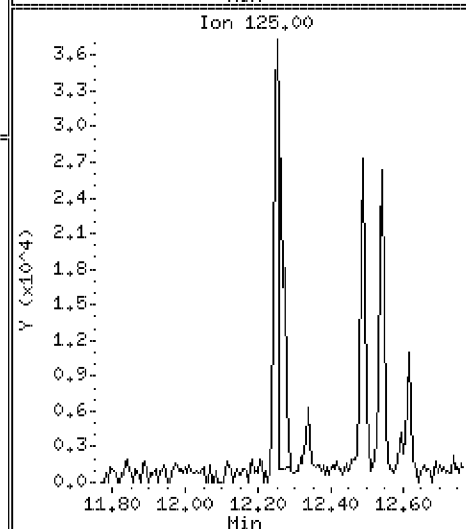
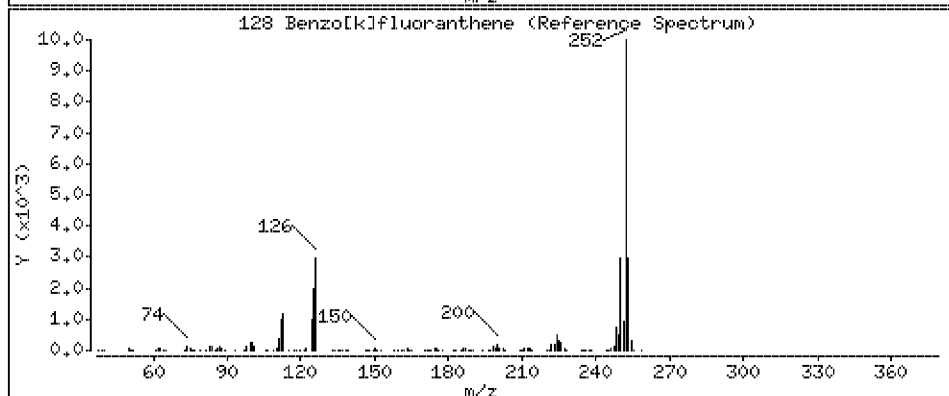
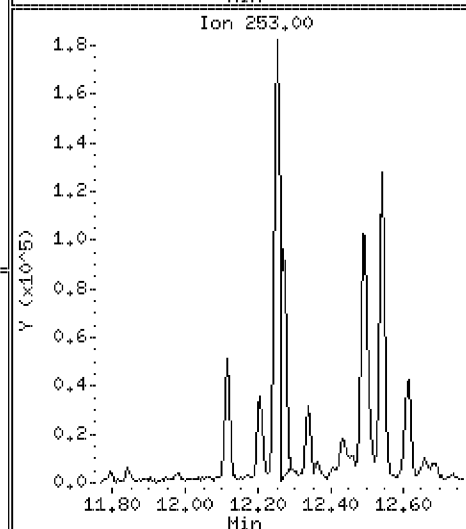
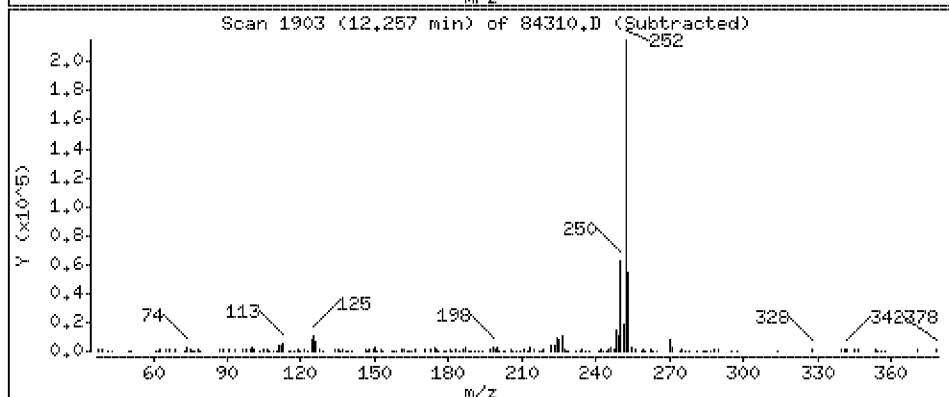
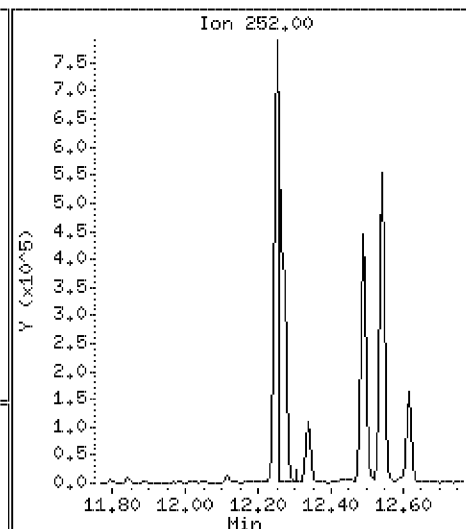
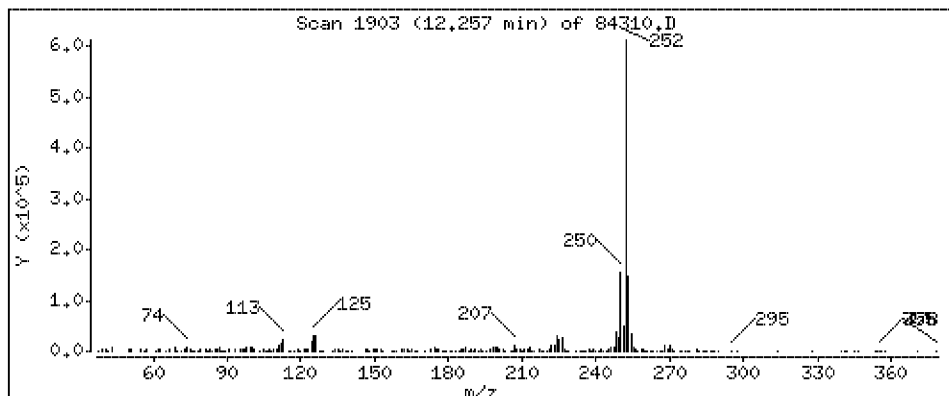
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

128 Benzo[k]fluoranthene

Concentration: 660 ug/kg



Date : 04-MAY-2012 16:32

Client ID: EPAFMC-SD-14

Instrument: smsd03.i

Sample Info: SW350584310

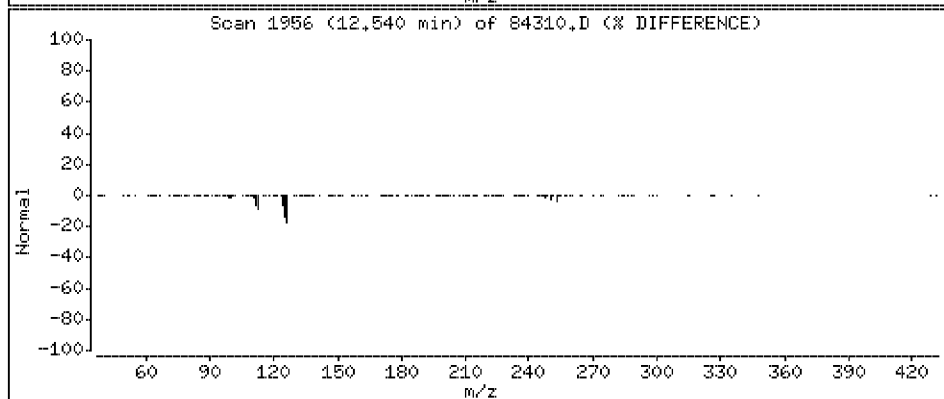
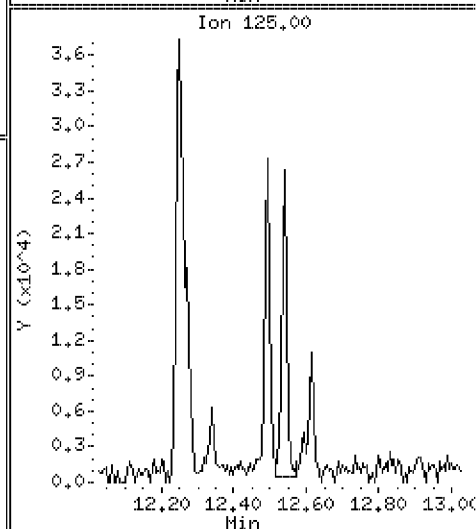
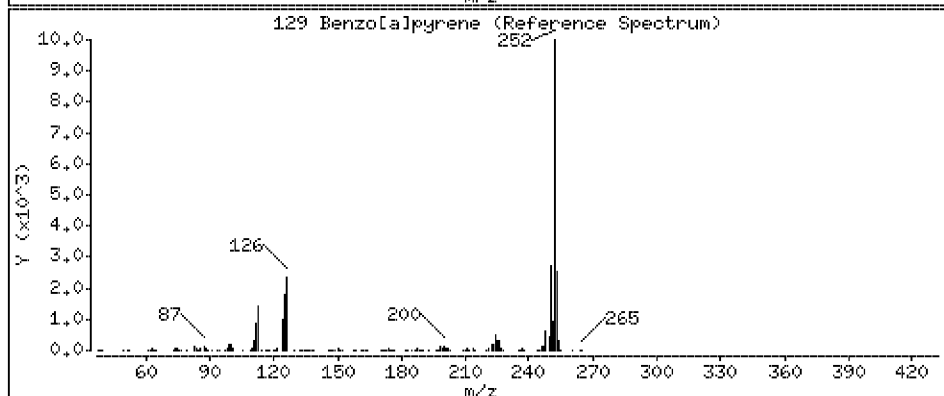
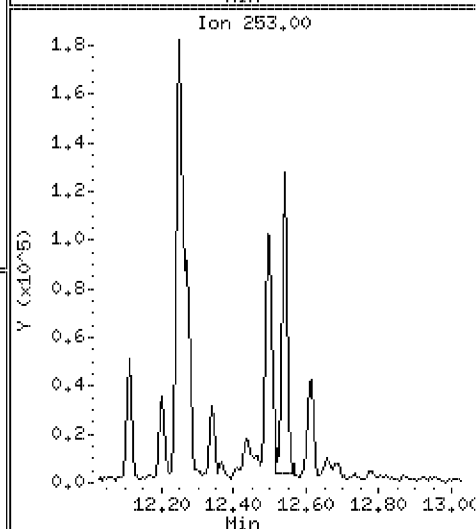
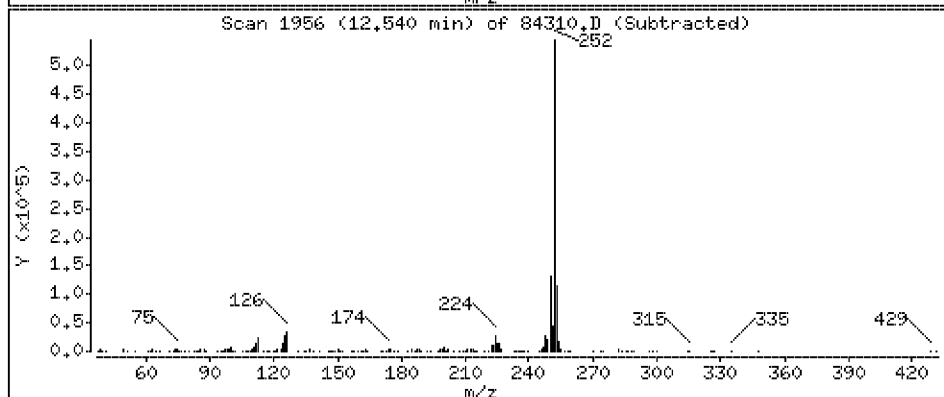
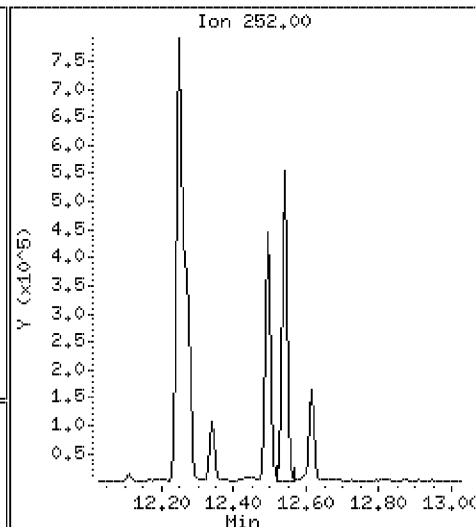
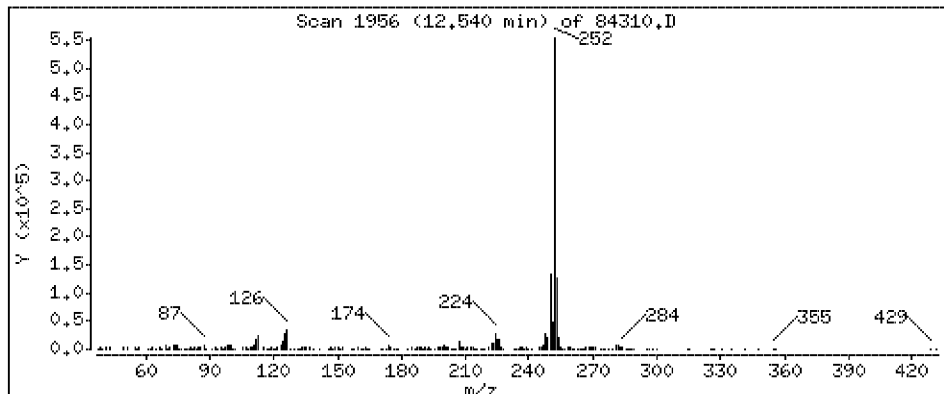
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

129 Benzo[a]pyrene

Concentration: 549 ug/kg



Date : 04-MAY-2012 16:32

Client ID: EPAFMC-SD-14

Instrument: smsd03.i

Sample Info: SW350584310

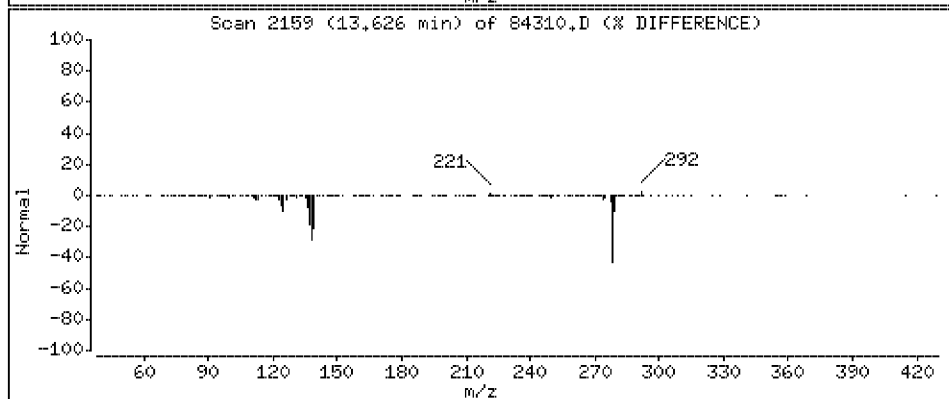
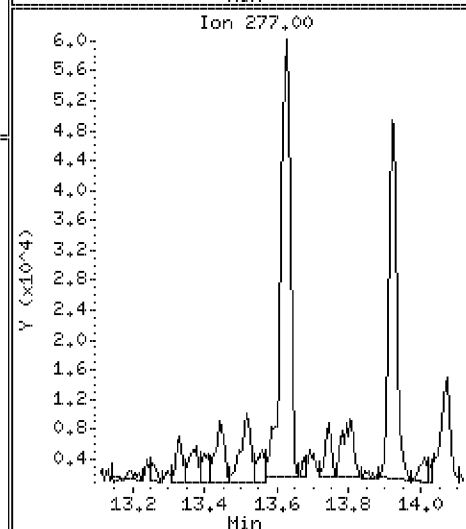
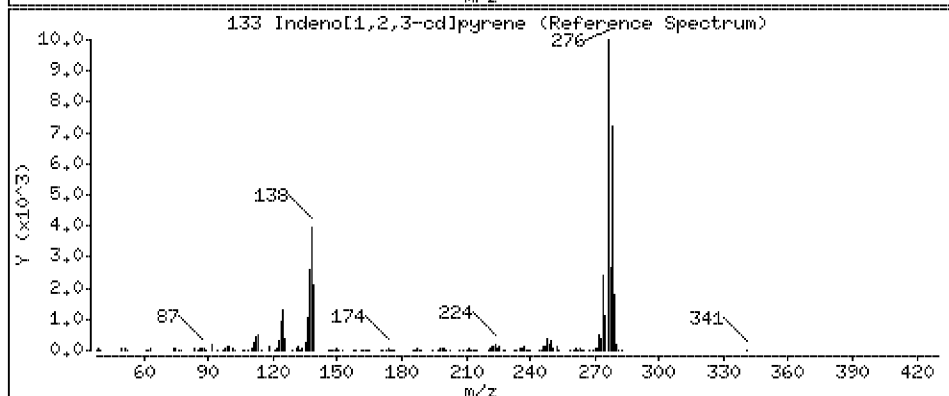
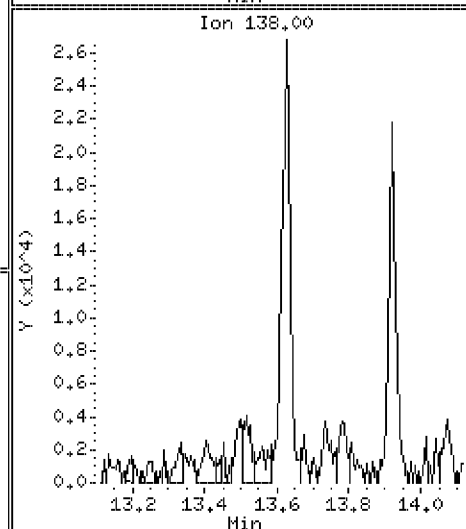
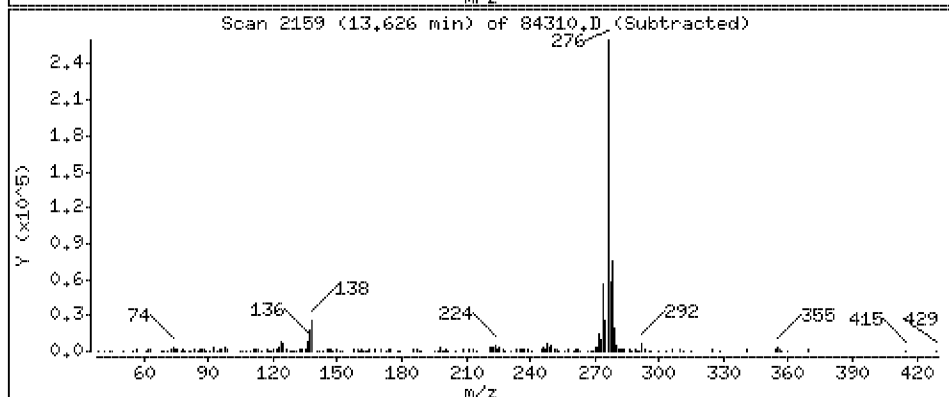
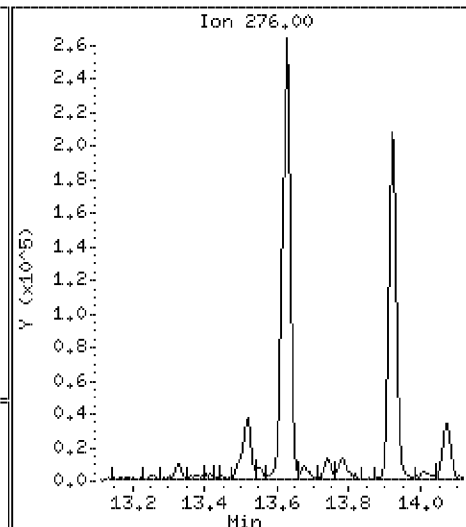
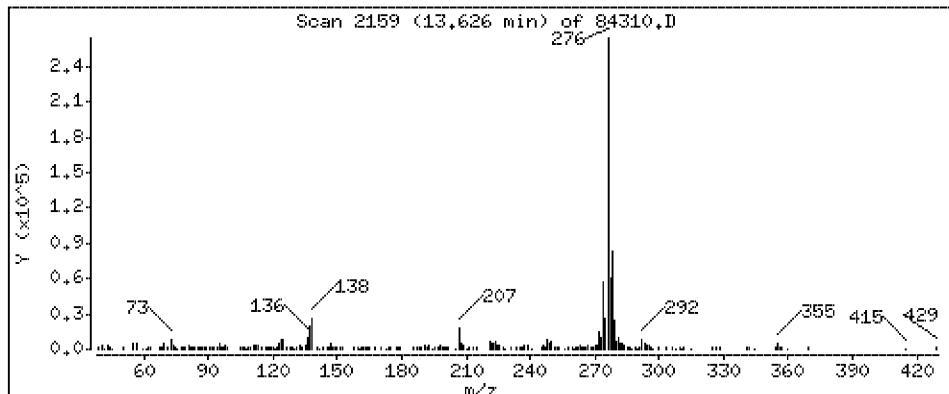
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

133 Indeno[1,2,3-cd]pyrene

Concentration: 292 ug/kg



Date : 04-MAY-2012 16:32

Client ID: EPAFMC-SD-14

Instrument: smsd03.i

Sample Info: SW350584310

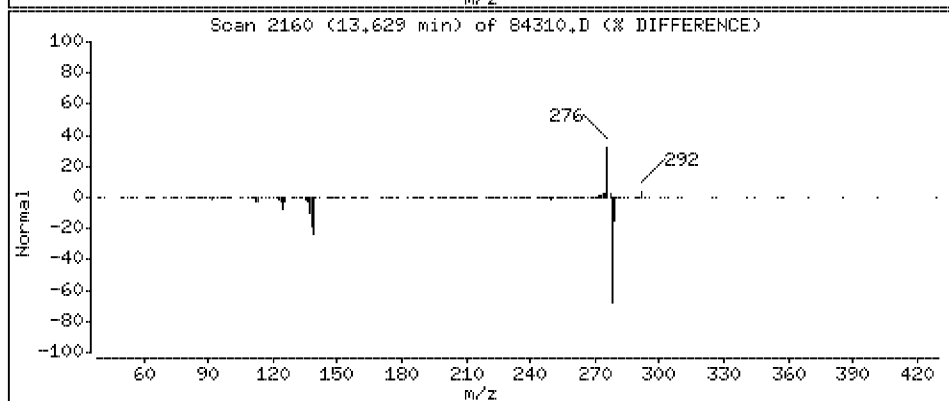
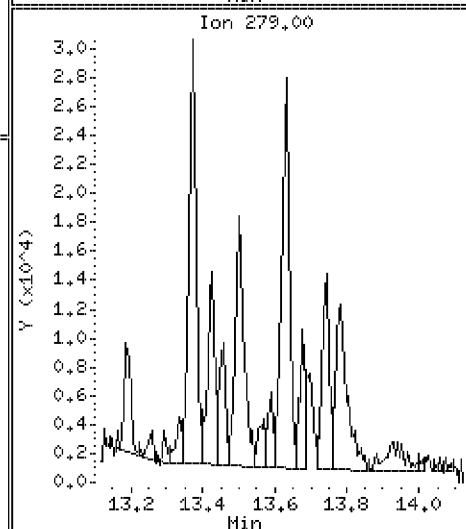
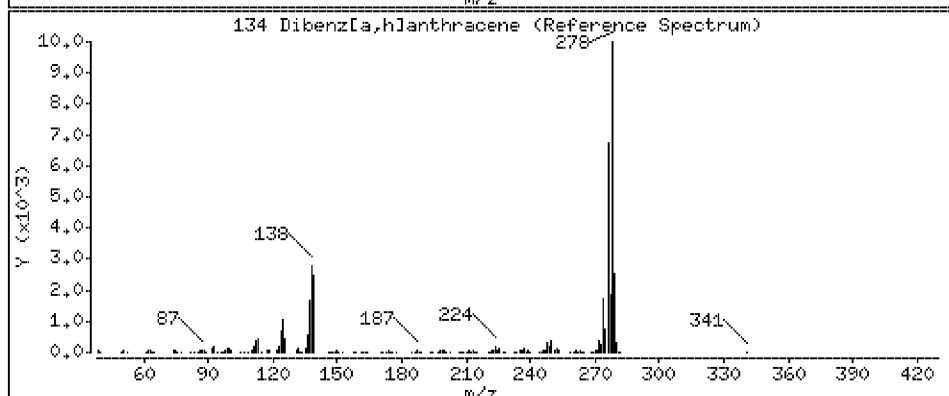
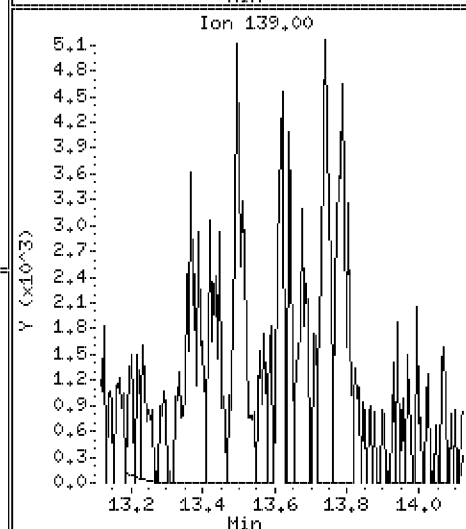
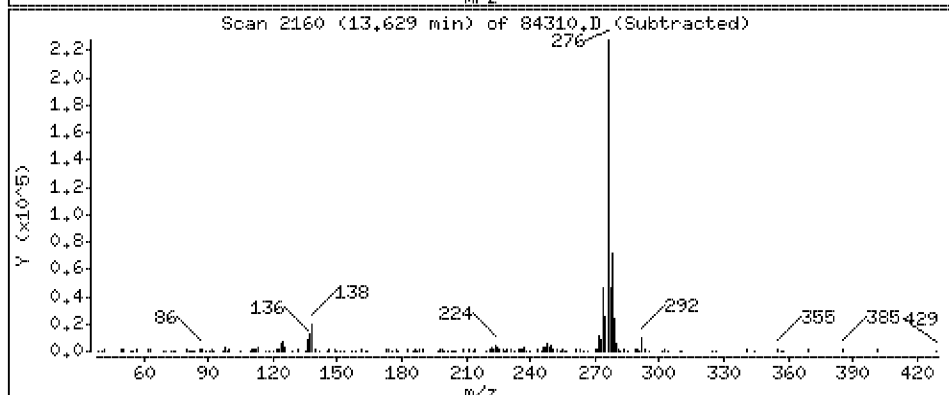
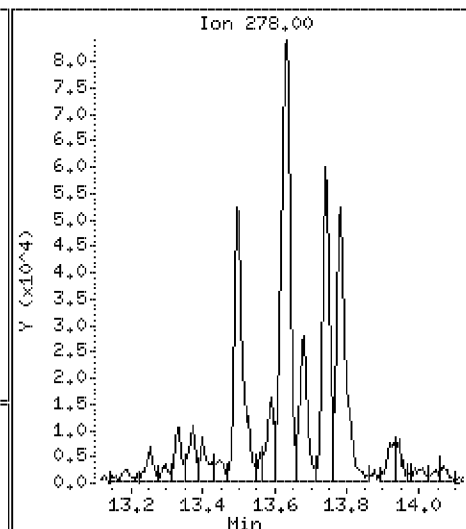
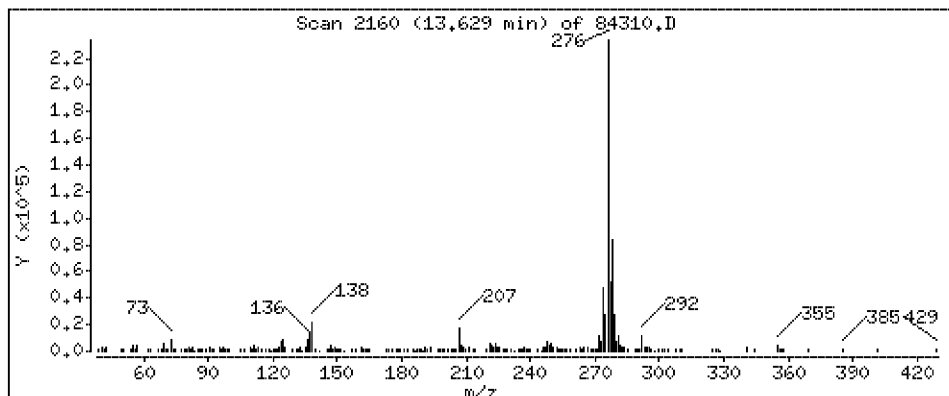
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

134 Dibenz[a,h]anthracene

Concentration: 124 ug/kg



Date : 04-MAY-2012 16:32

Client ID: EPAFMC-SD-14

Instrument: smsd03.i

Sample Info: SW350584310

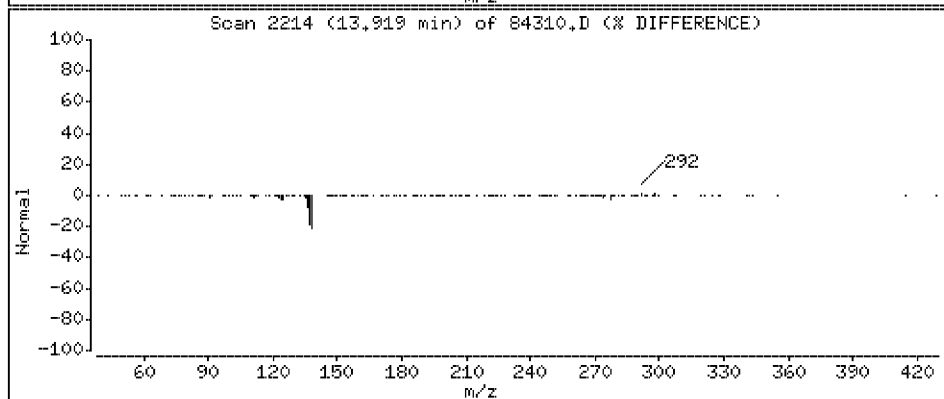
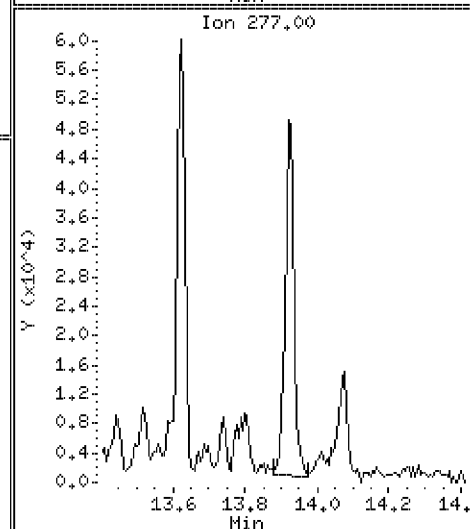
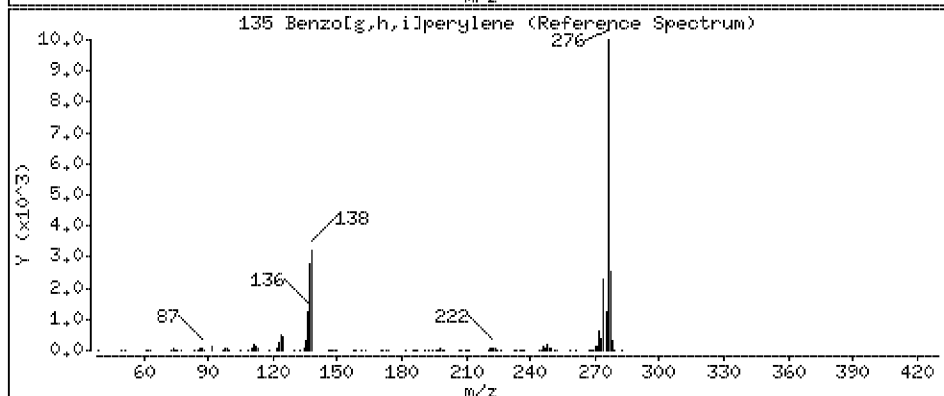
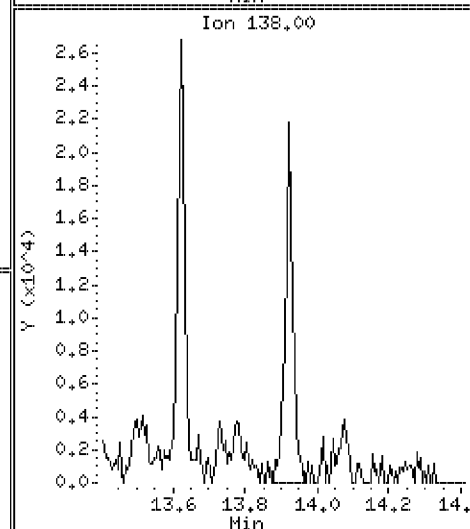
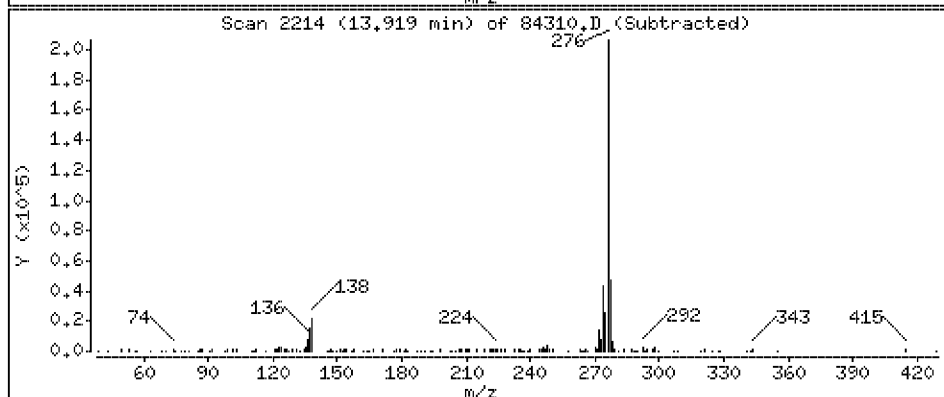
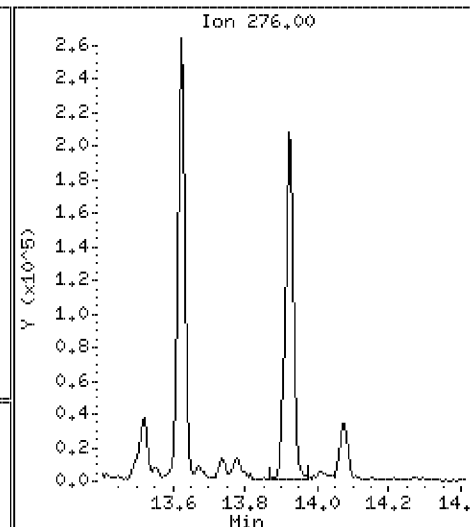
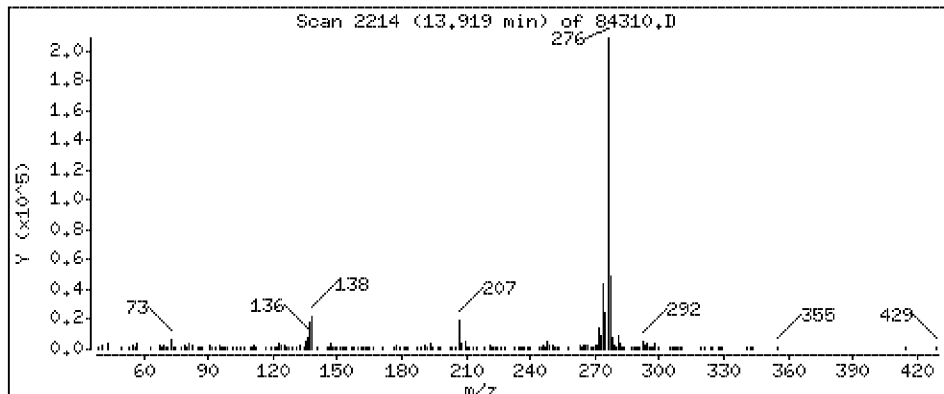
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

135 Benzo[g,h,i]perylene

Concentration: 324 ug/kg



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3050412.b\84311.D
 Lab Smp Id: 350584311 Client Smp ID: EPAFMC-SD-15
 Inj Date : 04-MAY-2012 16:56 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : SW350584311
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3050412.b\8270bcs.m
 Meth Date : 07-May-2012 17:35 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 18:17 Cal File: AP9CAL4.D
 Als bottle: 18
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.450	Weight of sample extracted (g)
M	17.800	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.354	4.352 (1.000)		152	262863	40.0000		80.00- 120.00	100.00	
4.354	4.352 (1.000)		115	165091			31.12- 91.12	62.80	
4.354	4.352 (1.000)		150	404164			117.02- 177.02	153.75	
* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.514	5.513 (1.000)		136	878290	40.0000		80.00- 120.00	100.00	
5.513	5.513 (1.000)		68	47284			0.00- 35.11	5.38	
* 70 Acenaphthene-d10 CAS #: 15067-26-2									
7.209	7.208 (1.000)		164	632031	40.0000		80.00- 120.00	100.00	
7.209	7.208 (1.000)		162	603258			66.36- 126.36	95.45	
7.209	7.208 (1.000)		160	280188			14.03- 74.03	44.33	
* 100 Phenanthrene-d10 CAS #: 1517-22-2									
8.663	8.665 (1.000)		188	1272569	40.0000		80.00- 120.00	100.00	
8.662	8.665 (1.000)		94	79197			0.00- 36.25	6.22	
8.662	8.665 (1.000)		80	93971			0.00- 37.67	7.38	
* 121 Chrysene-d12 CAS #: 1719-03-5									
11.260	11.259 (1.000)		240	1690512	40.0000		80.00- 120.00	100.00	

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET	RANGE	RATIO
====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 121 Chrysene-d12 (continued)									
11.259	11.259	(1.000)	120	85171			0.00-	34.90	5.04
11.260	11.259	(1.000)	236	457665			0.00-	56.56	27.07

* 130 Perylene-d12									
						CAS #: 1520-96-3			
12.580	12.576	(1.000)	264	1707370	40.0000		80.00-	120.00	100.00
12.581	12.576	(1.000)	260	420853			0.00-	54.67	24.65
12.581	12.576	(1.000)	265	388931			0.00-	53.09	22.78

Date : 04-MAY-2012 16:56

Client ID: EPAFMC-SD-15

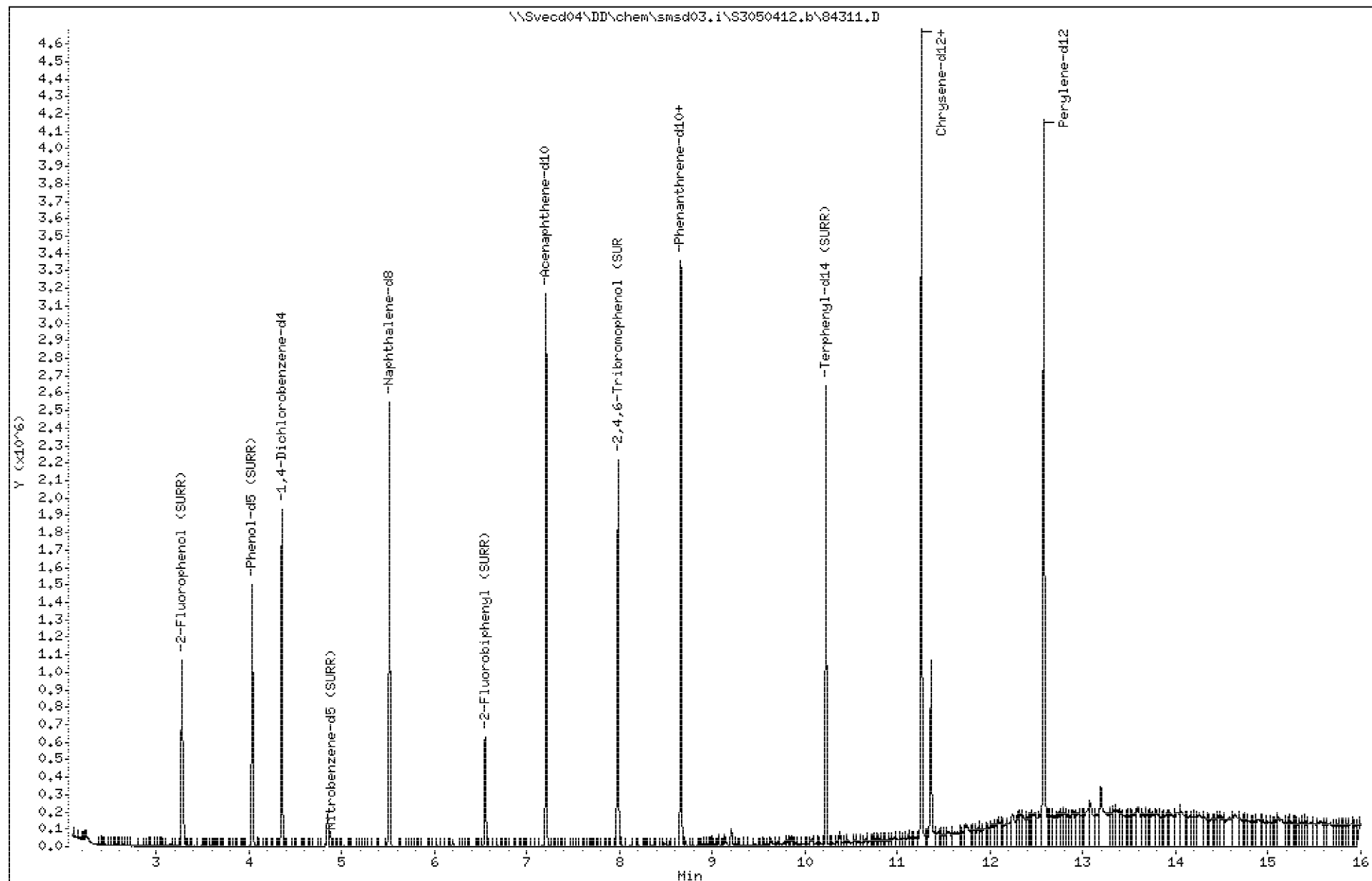
Sample Info: SN350584311

Instrument: smsd03.i

Operator: PEL

Column diameter: 0.25

Column phase: HPMS-5



Date : 04-MAY-2012 16:56

Client ID: EPAFMC-SD-15

Instrument: smsd03.i

Sample Info: SW350584311

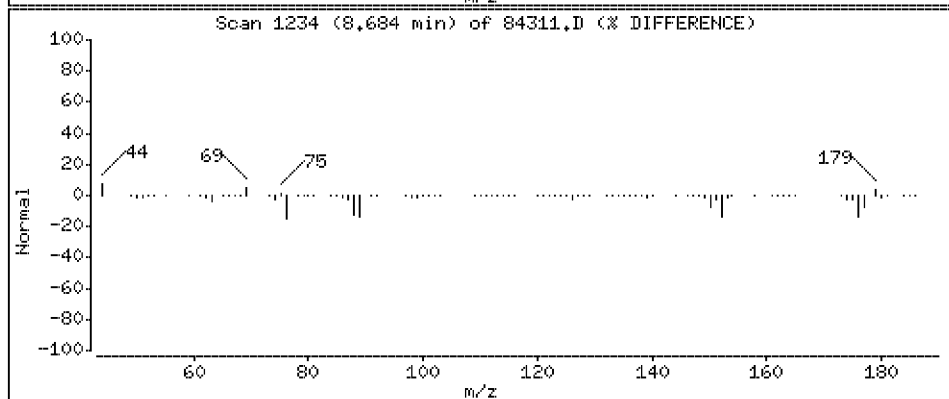
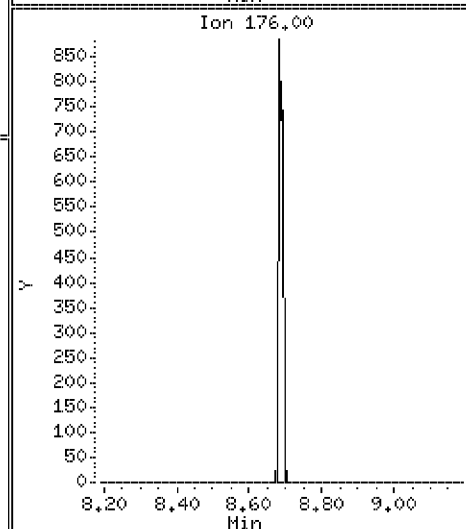
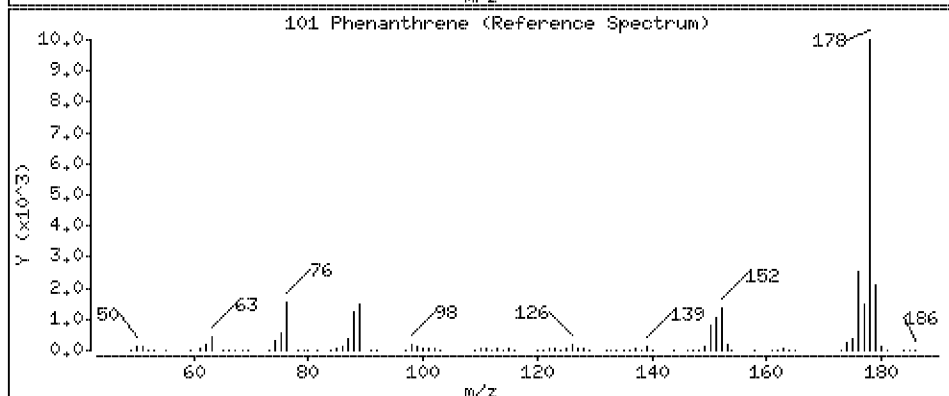
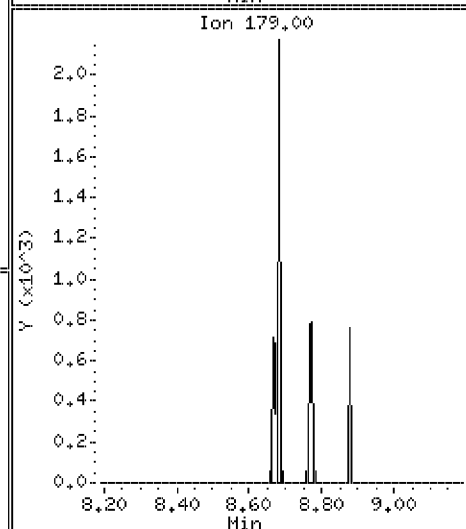
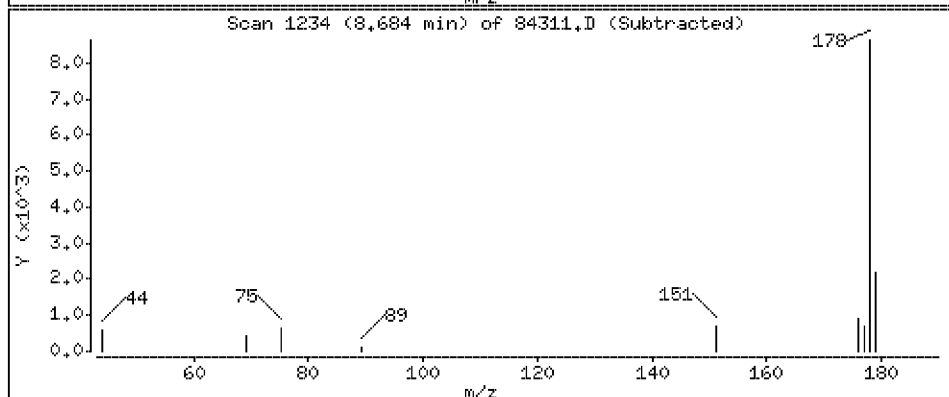
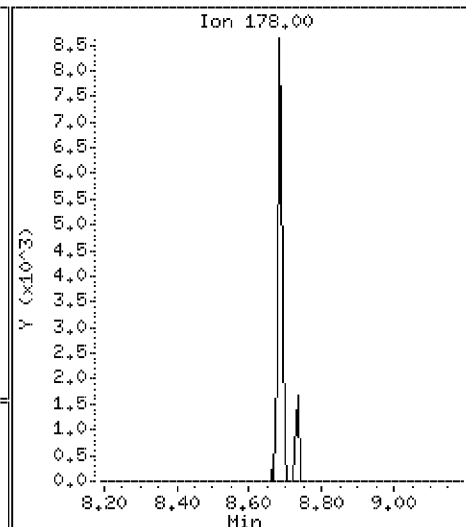
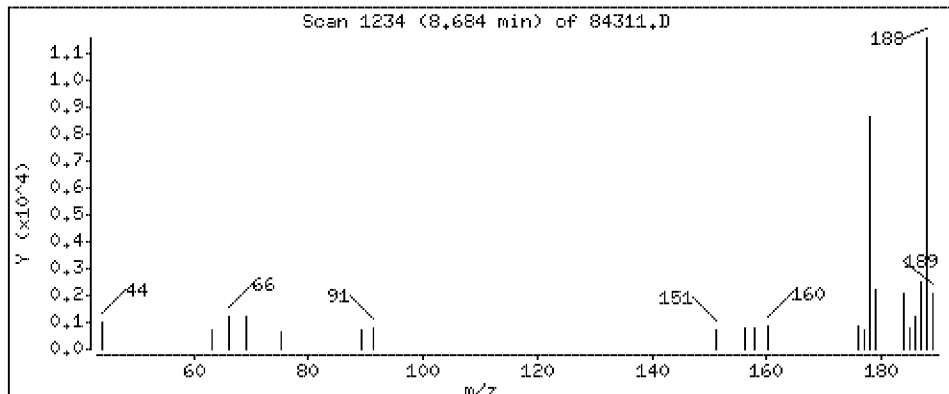
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

101 Phenanthrene

Concentration: 10,5 ug/kg



Date : 04-MAY-2012 16:56

Client ID: EPAFMC-SD-15

Instrument: smsd03.i

Sample Info: SW350584311

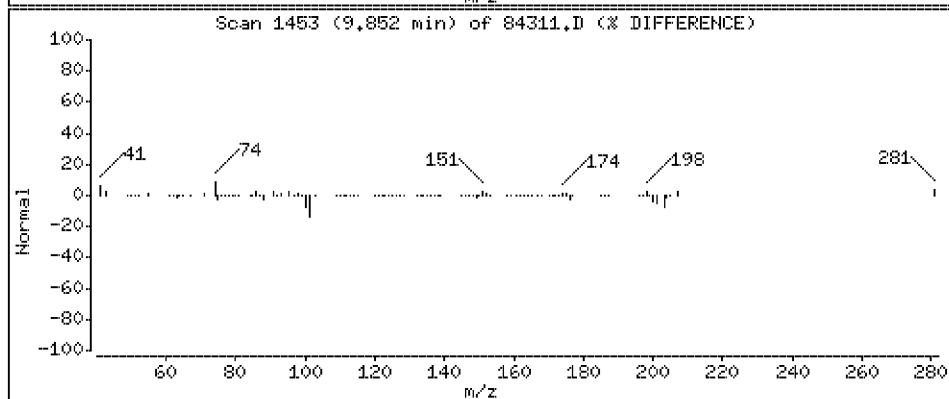
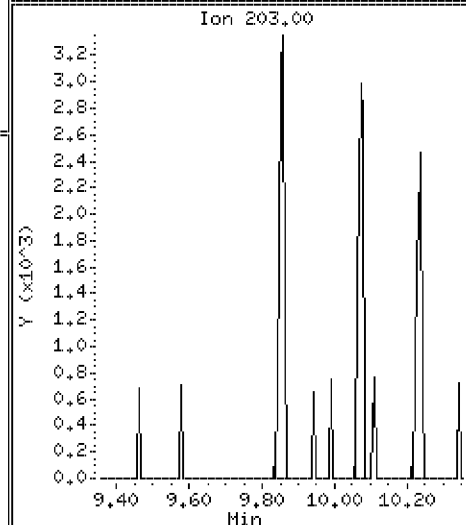
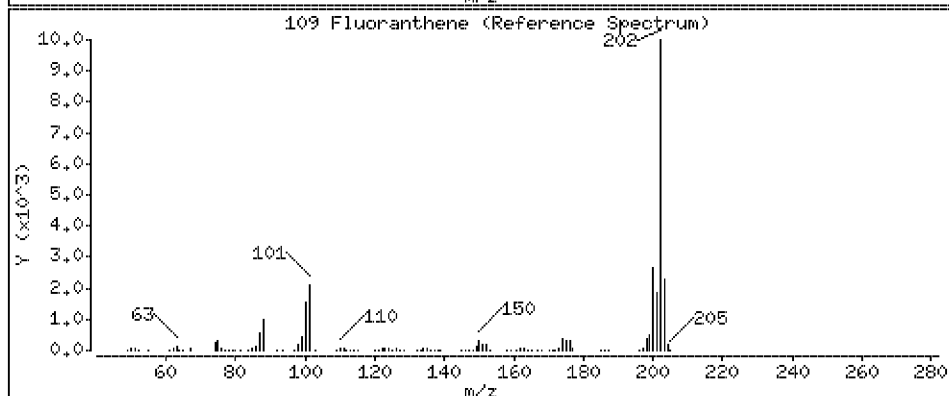
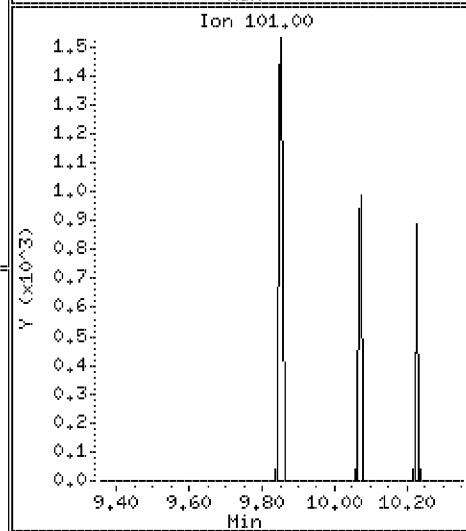
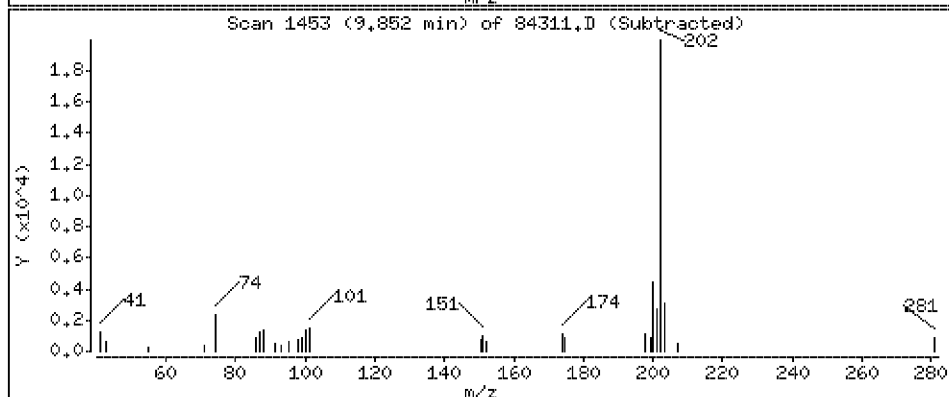
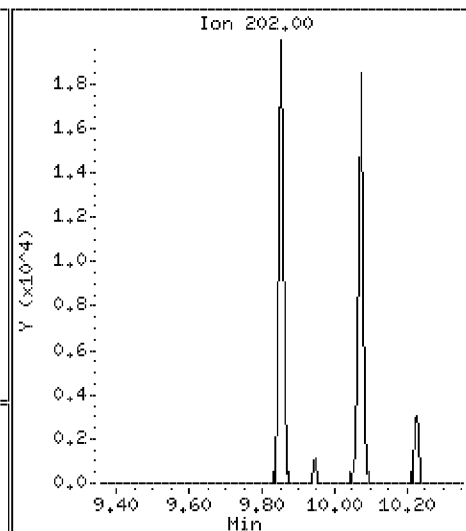
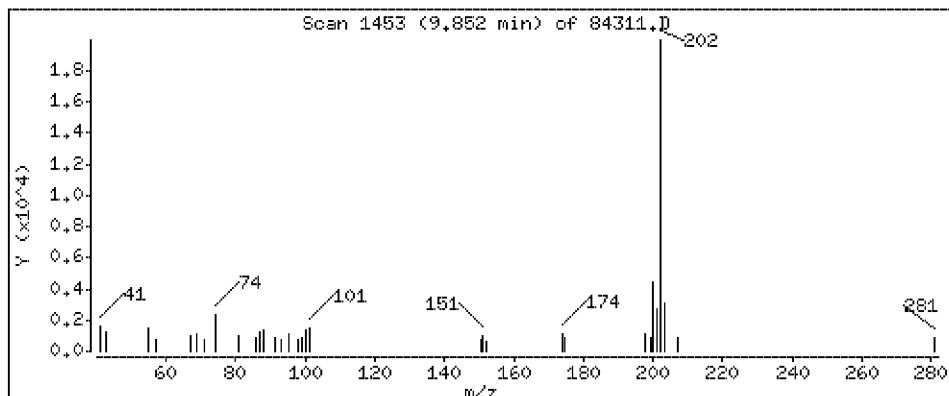
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

109 Fluoranthene

Concentration: 23.4 ug/kg



Date : 04-MAY-2012 16:56

Client ID: EPAFMC-SD-15

Instrument: smsd03.i

Sample Info: SW350584311

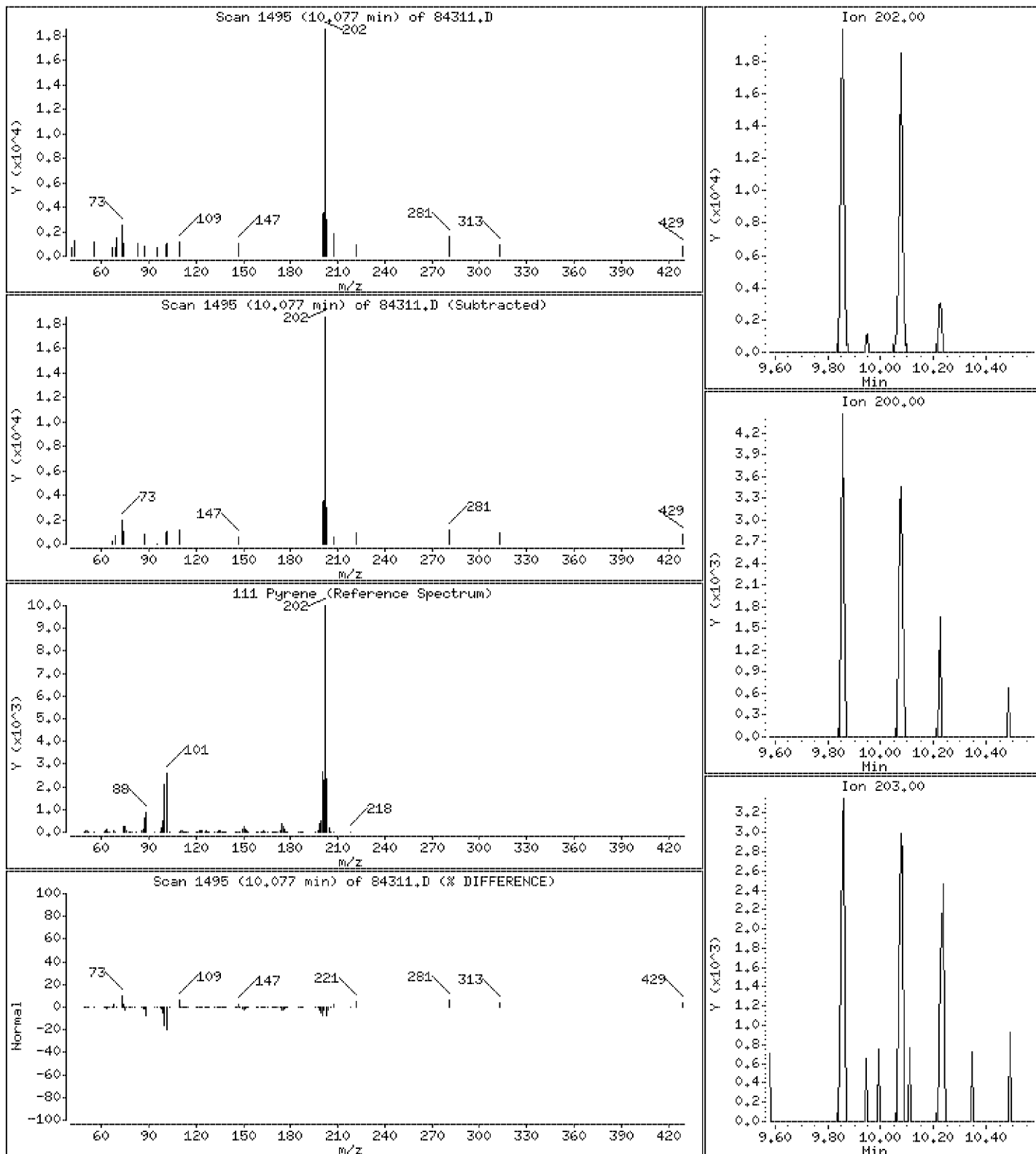
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

111 Pyrene

Concentration: 23.1 ug/kg



Date : 04-MAY-2012 16:56

Client ID: EPAFMC-SD-15

Instrument: smsd03.i

Sample Info: SW350584311

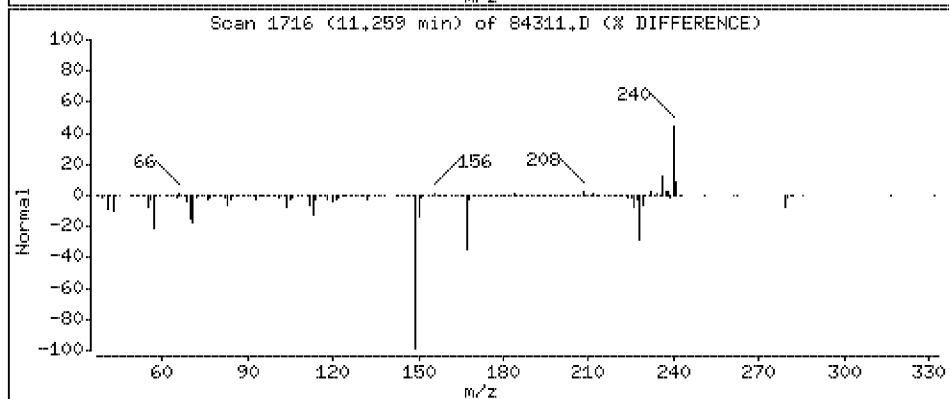
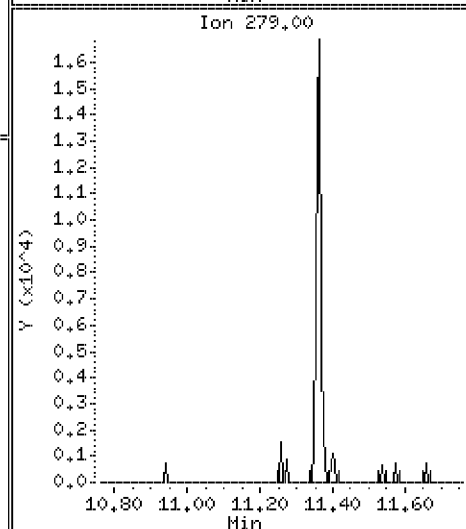
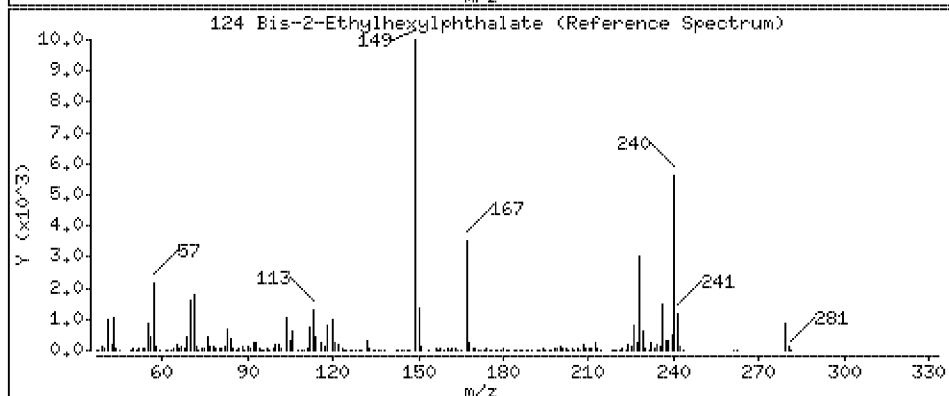
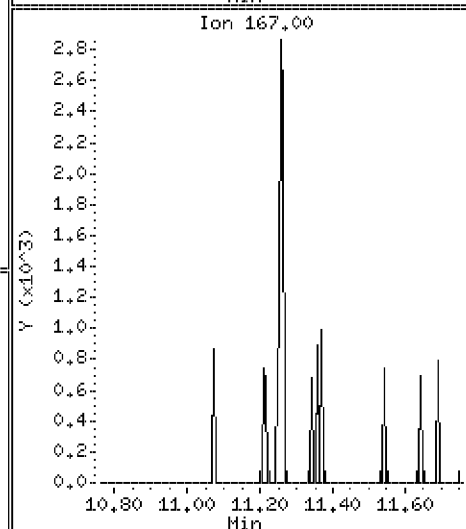
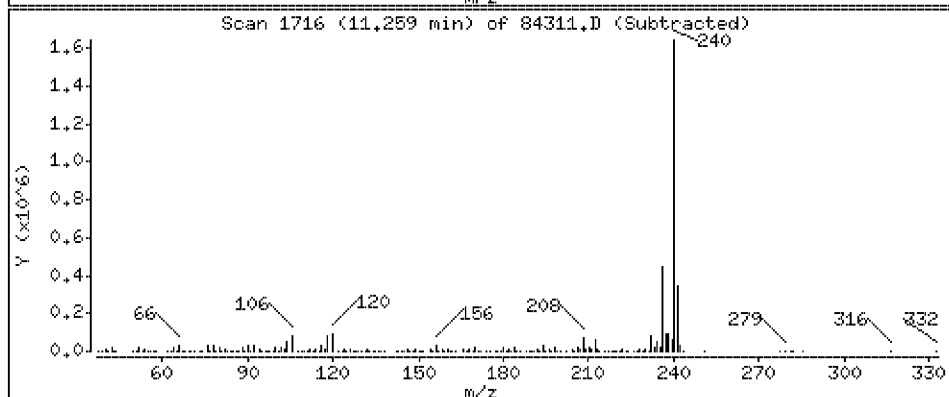
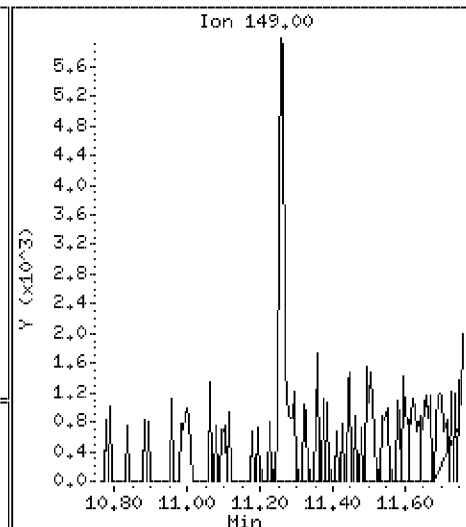
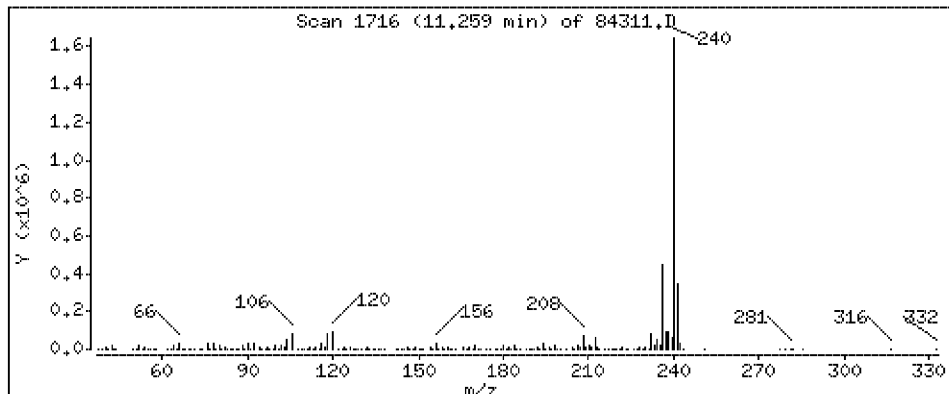
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

124 Bis-2-Ethylhexylphthalate

Concentration: 14.0 ug/kg



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3050412.b\84312.D
 Lab Smp Id: 350584312 Client Smp ID: EPAFMC-SD-16
 Inj Date : 04-MAY-2012 17:20 MS Autotune Date: 12-SEP-2011 18:58
 Operator : PEL Inst ID: smsd03.i
 Smp Info : SW350584312
 Misc Info :
 Comment :
 Method : \\Svecd04\DD\chem\smsd03.i\S3050412.b\8270bcs.m
 Meth Date : 07-May-2012 17:35 mjacobs Quant Type: ISTD
 Cal Date : 23-APR-2012 18:17 Cal File: AP9CAL4.D
 Als bottle: 19
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.380	Weight of sample extracted (g)
M	19.900	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
* 18 1,4-Dichlorobenzene-d4 CAS #: 3855-82-1									
4.354	4.352 (1.000)		152	279647	40.0000		80.00- 120.00	100.00	
4.354	4.352 (1.000)		115	169398			31.12- 91.12	60.58	
4.354	4.352 (1.000)		150	413153			117.02- 177.02	147.74	
* 43 Naphthalene-d8 CAS #: 1146-65-2									
5.514	5.513 (1.000)		136	919281	40.0000		80.00- 120.00	100.00	
5.514	5.513 (1.000)		68	48619			0.00- 35.11	5.29	
* 70 Acenaphthene-d10 CAS #: 15067-26-2									
7.209	7.208 (1.000)		164	665963	40.0000		80.00- 120.00	100.00	
7.209	7.208 (1.000)		162	638393			66.36- 126.36	95.86	
7.209	7.208 (1.000)		160	283570			14.03- 74.03	42.58	
* 100 Phenanthrene-d10 CAS #: 1517-22-2									
8.664	8.665 (1.000)		188	1340297	40.0000		80.00- 120.00	100.00	
8.664	8.665 (1.000)		94	84814			0.00- 36.25	6.33	
8.663	8.665 (1.000)		80	97822			0.00- 37.67	7.30	
* 121 Chrysene-d12 CAS #: 1719-03-5									
11.262	11.259 (1.000)		240	1815685	40.0000		80.00- 120.00	100.00	

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/ml)	FINAL (ug/kg)	TARGET	RANGE	RATIO
====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 121 Chrysene-d12 (continued)									
11.261	11.259	(1.000)	120	94017			0.00-	34.90	5.18
11.262	11.259	(1.000)	236	501413			0.00-	56.56	27.62

* 130 Perylene-d12									
					CAS #: 1520-96-3				
12.588	12.576	(1.000)	264	1781998	40.0000		80.00-	120.00	100.00
12.588	12.576	(1.000)	260	442149			0.00-	54.67	24.81
12.588	12.576	(1.000)	265	426614			0.00-	53.09	23.94

Date : 04-MAY-2012 17:20

Client ID: EPAFMC-SD-16

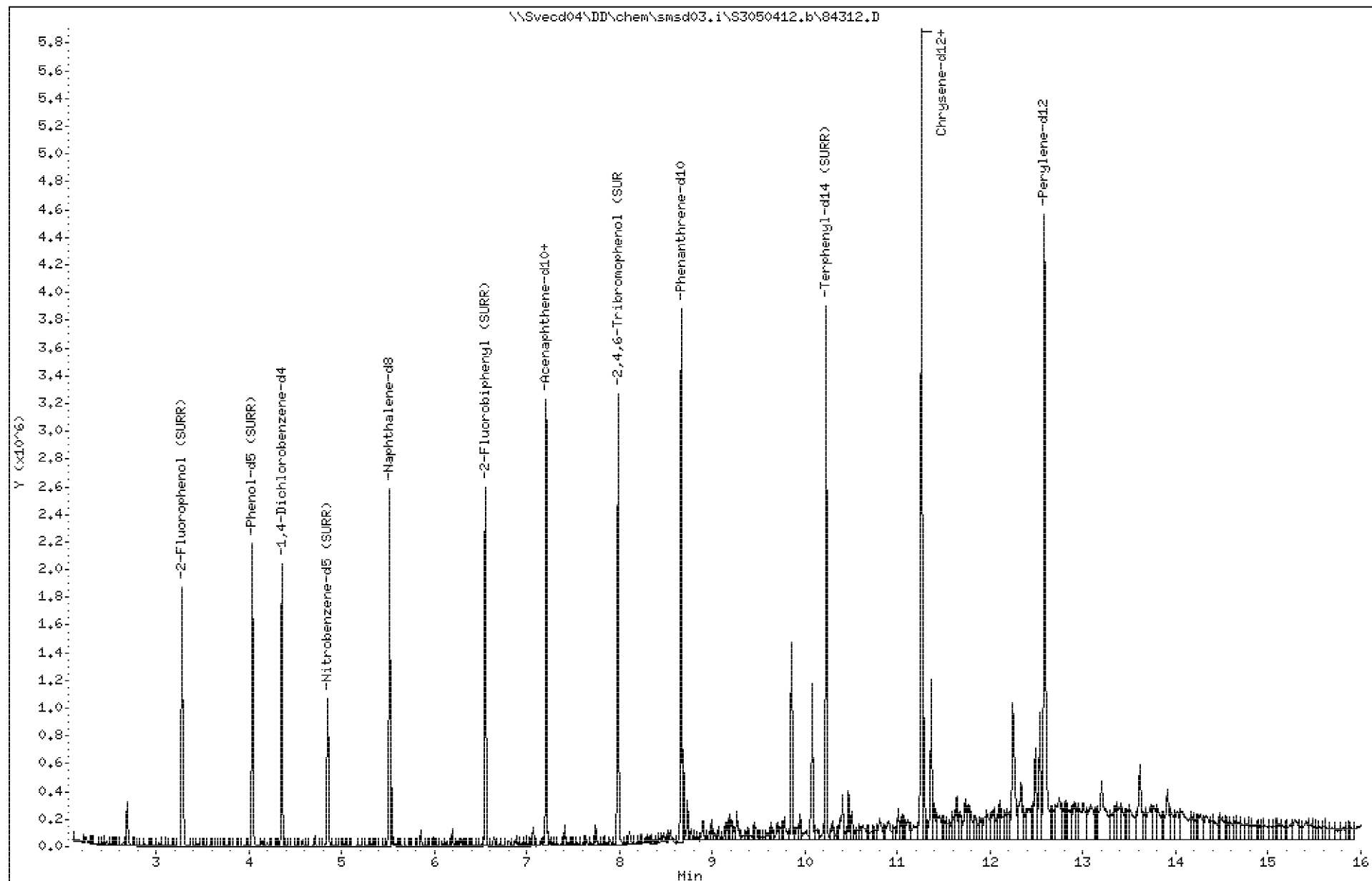
Sample Info: SN350584312

Instrument: smsd03.i

Operator: PEL

Column diameter: 0.25

Column phase: HPMS-5



Date : 04-MAY-2012 17:20

Client ID: EPAFMC-SD-16

Instrument: smsd03.i

Sample Info: SW350584312

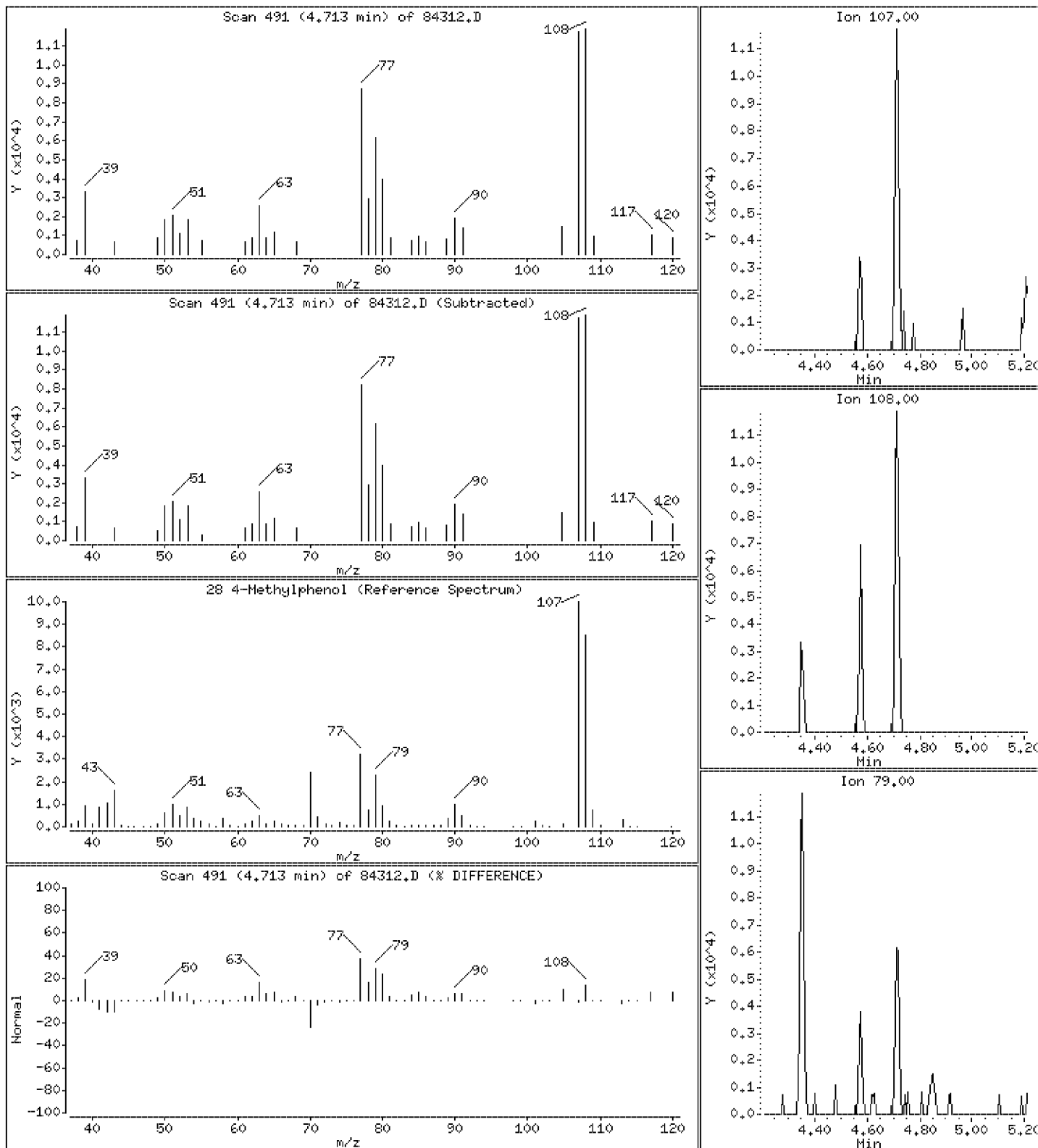
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

28 4-Methylphenol

Concentration: 56.1 ug/kg



Date : 04-MAY-2012 17:20

Client ID: EPAFMC-SD-16

Instrument: smsd03.i

Sample Info: SW350584312

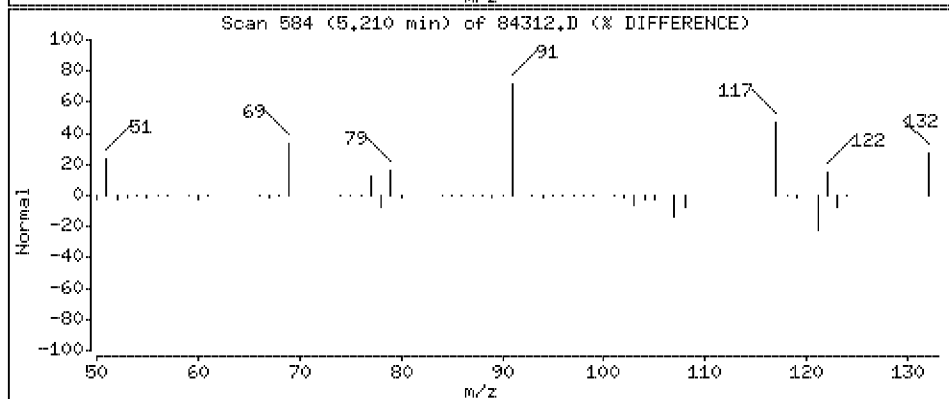
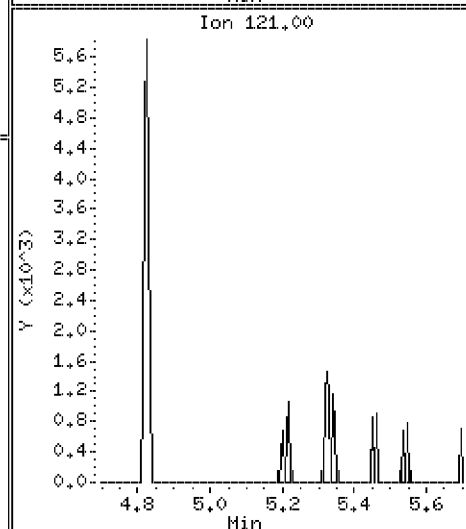
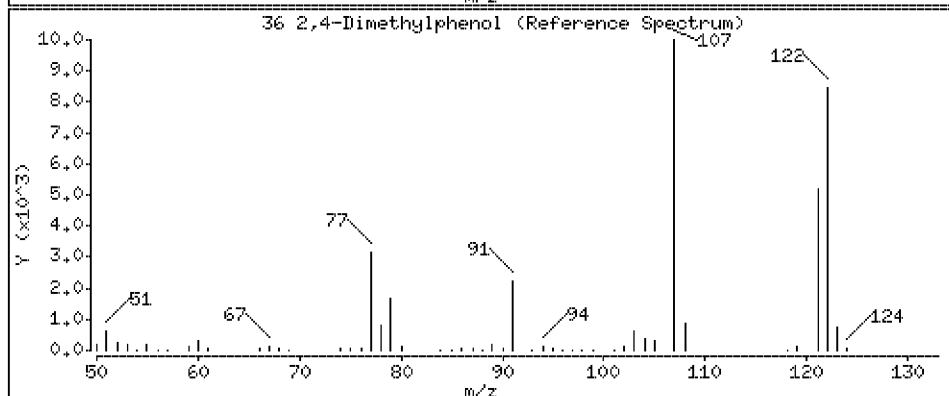
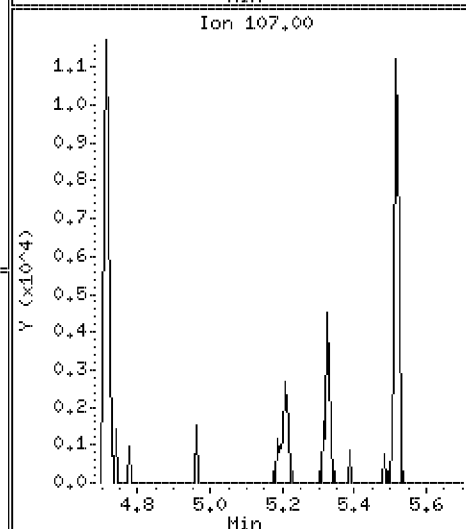
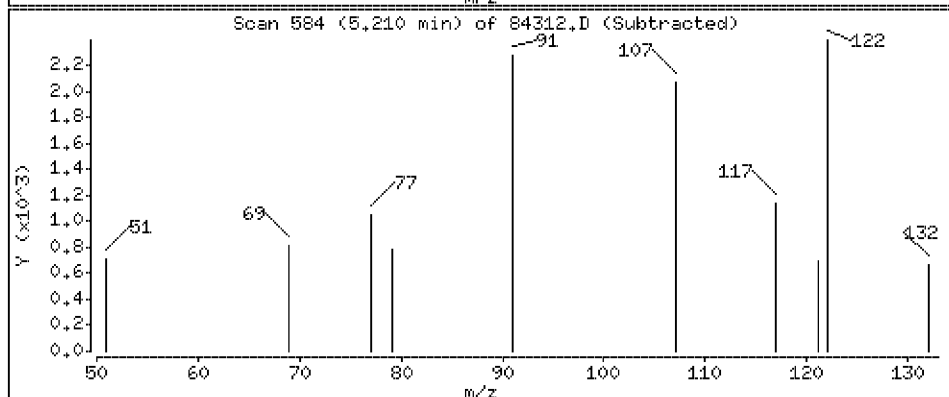
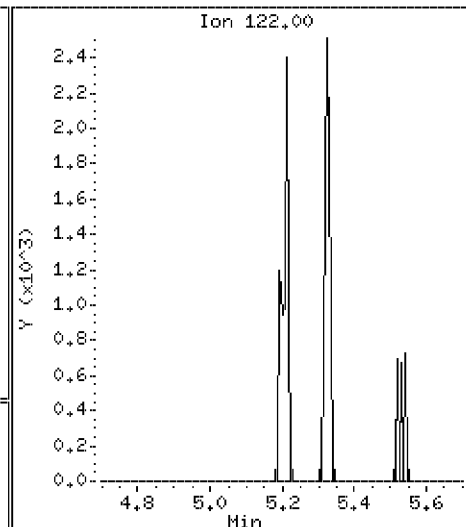
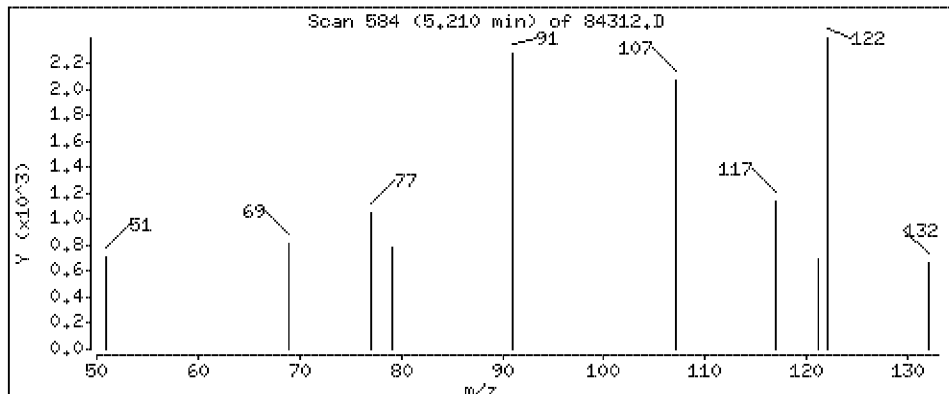
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

36 2,4-Dimethylphenol

Concentration: 14.8 ug/kg



Date : 04-MAY-2012 17:20

Client ID: EPAFMC-SD-16

Instrument: smsd03.i

Sample Info: SW350584312

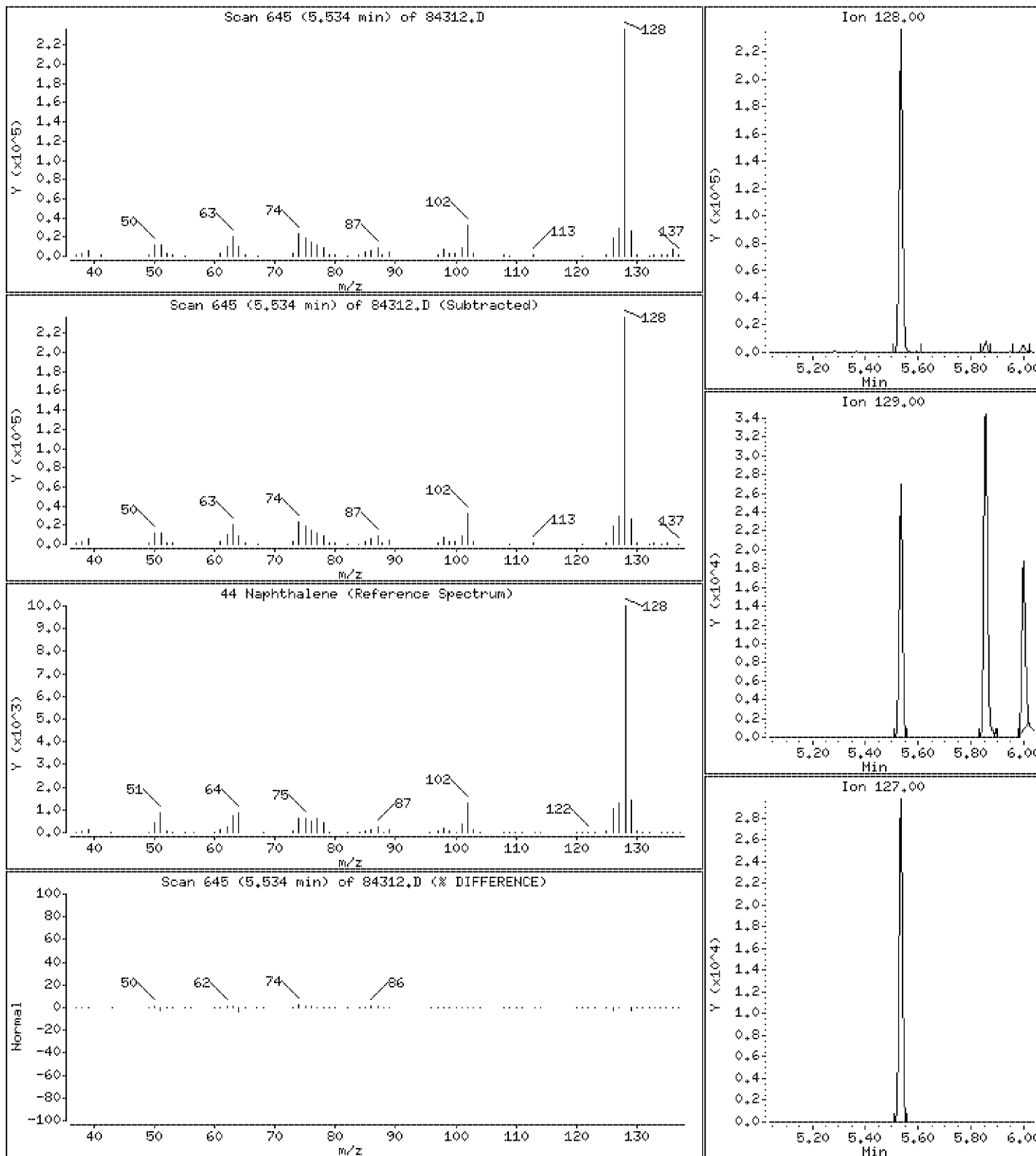
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

44 Naphthalene

Concentration: 431 ug/kg



Date : 04-MAY-2012 17:20

Client ID: EPAFMC-SD-16

Instrument: smsd03.i

Sample Info: SW350584312

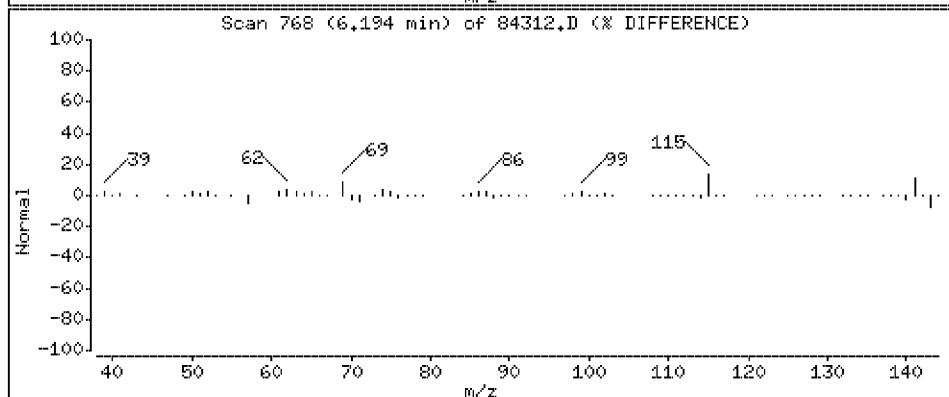
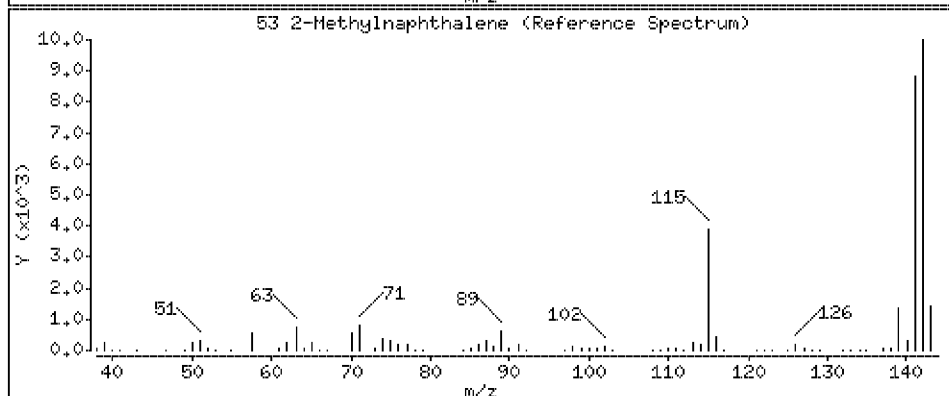
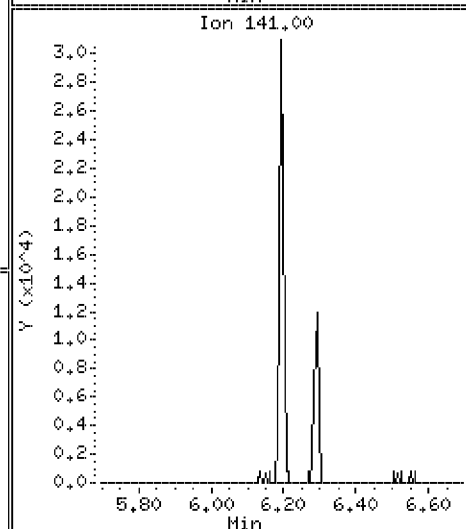
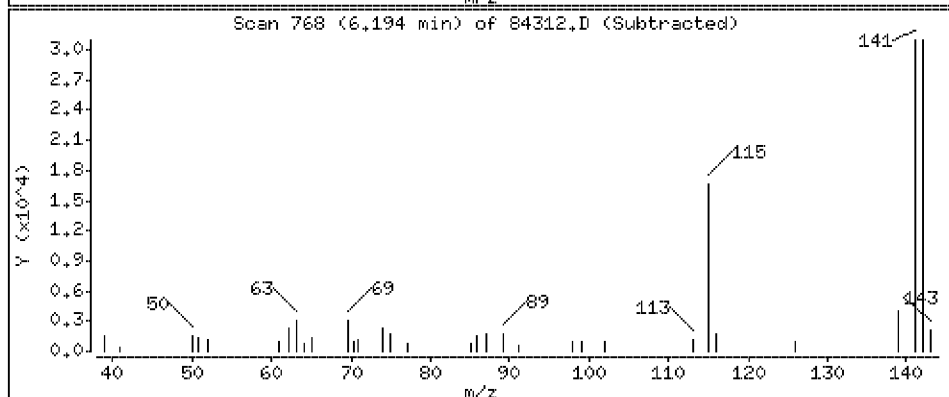
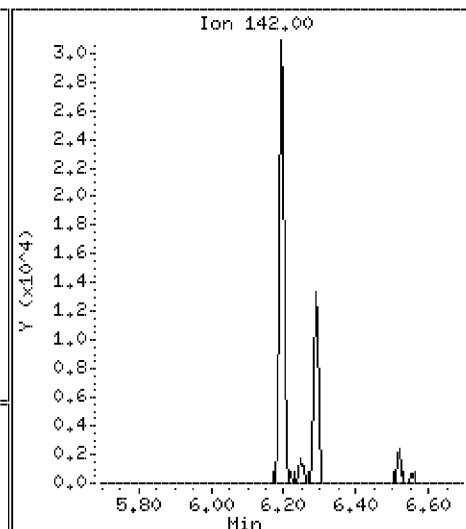
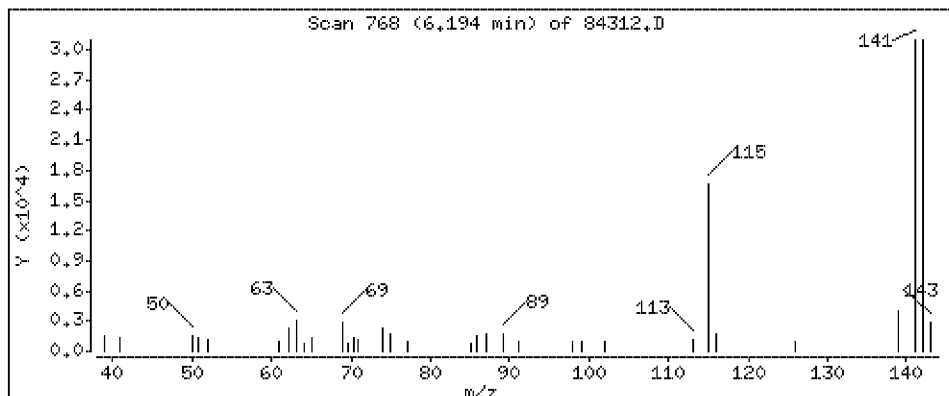
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

53 2-Methylnaphthalene

Concentration: 81.5 ug/kg



Date : 04-MAY-2012 17:20

Client ID: EPAFMC-SD-16

Instrument: smsd03.i

Sample Info: SW350584312

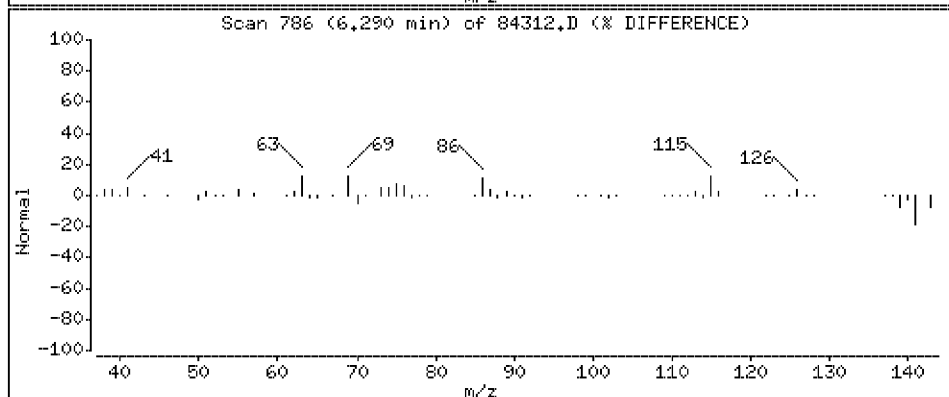
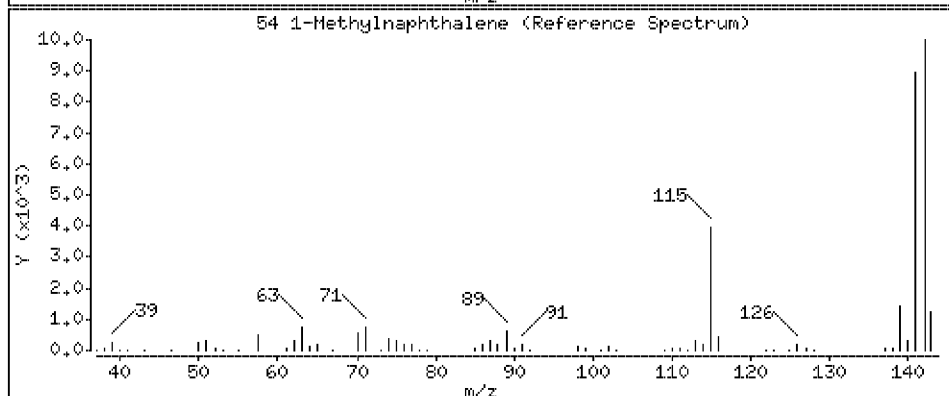
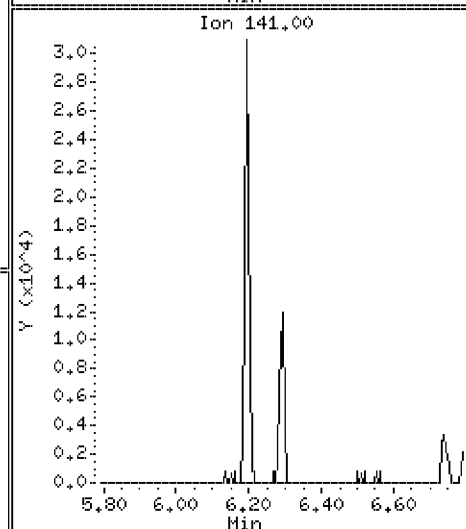
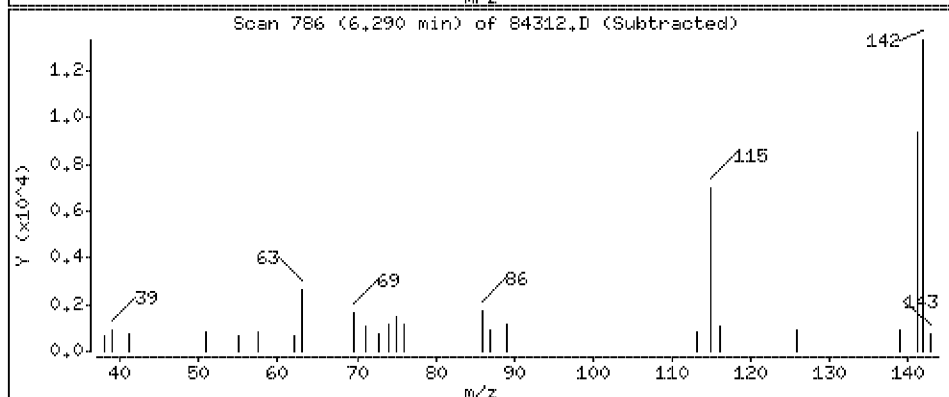
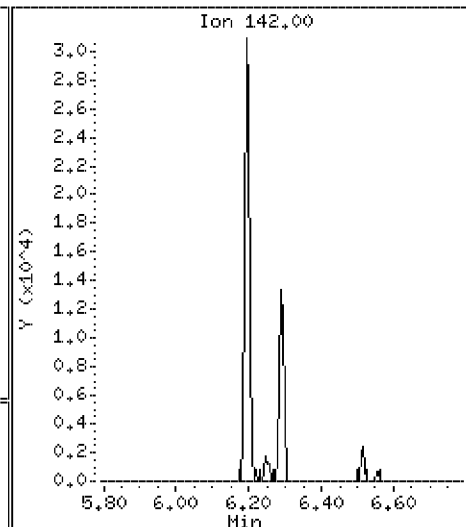
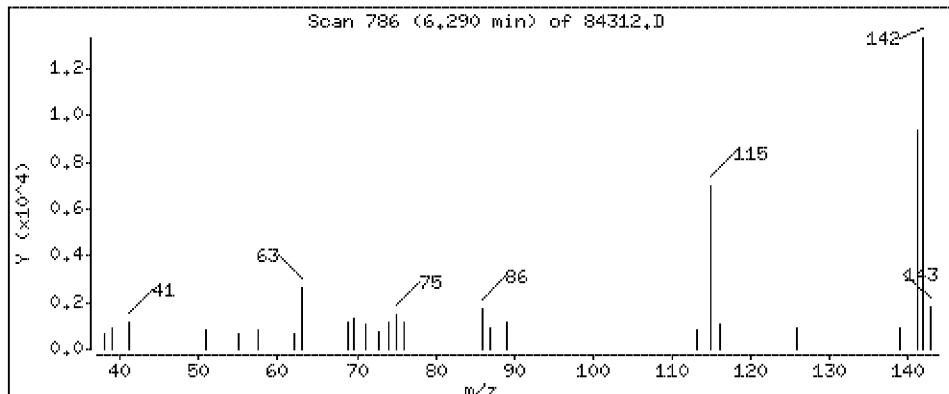
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

54 1-Methylnaphthalene

Concentration: 38,5 ug/kg



Date : 04-MAY-2012 17:20

Client ID: EPAFMC-SD-16

Instrument: smsd03.i

Sample Info: SW350584312

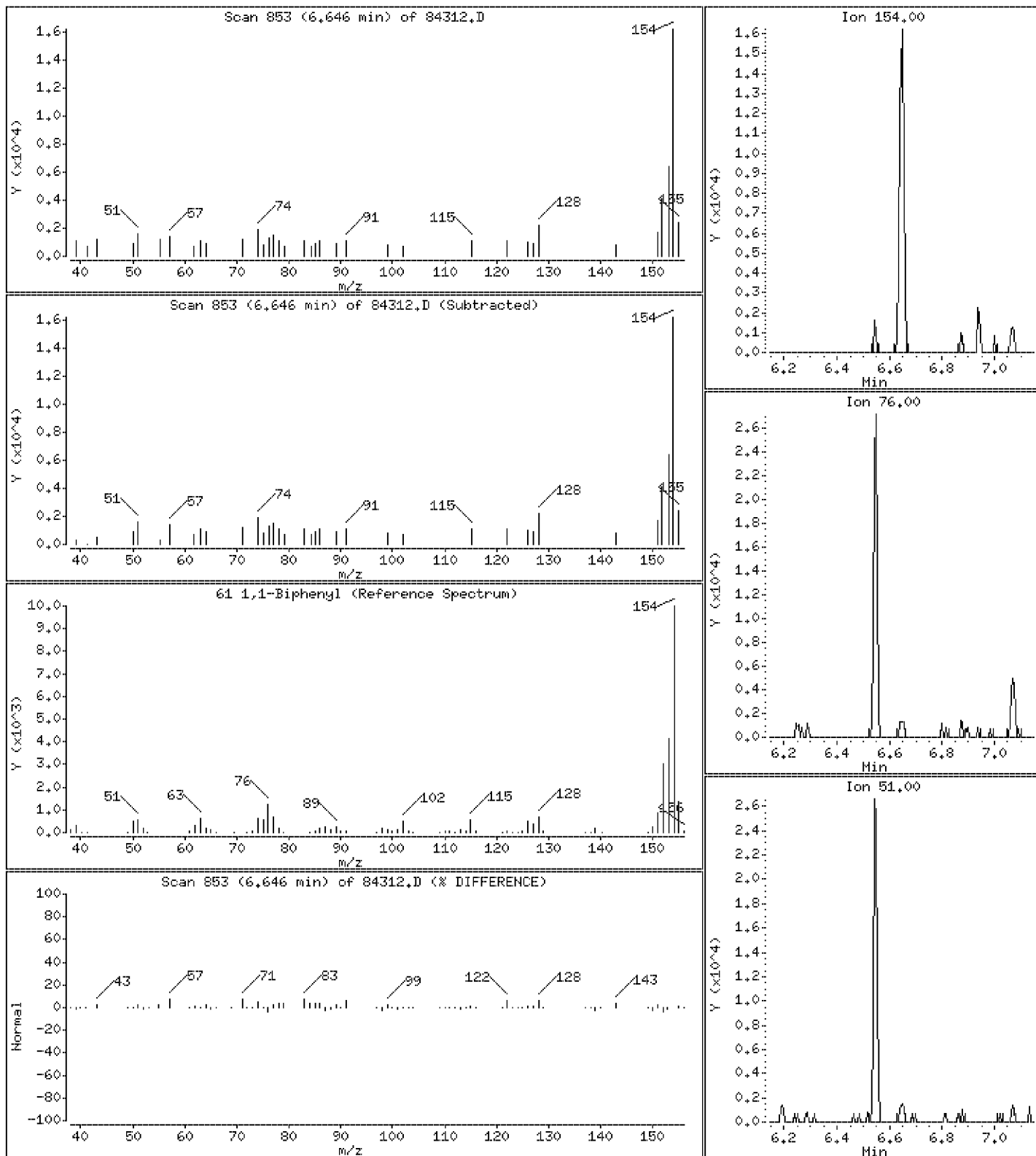
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

61 1,1-Biphenyl

Concentration: 27.1 ug/kg



Date : 04-MAY-2012 17:20

Client ID: EPAFMC-SD-16

Instrument: smsd03.i

Sample Info: SW350584312

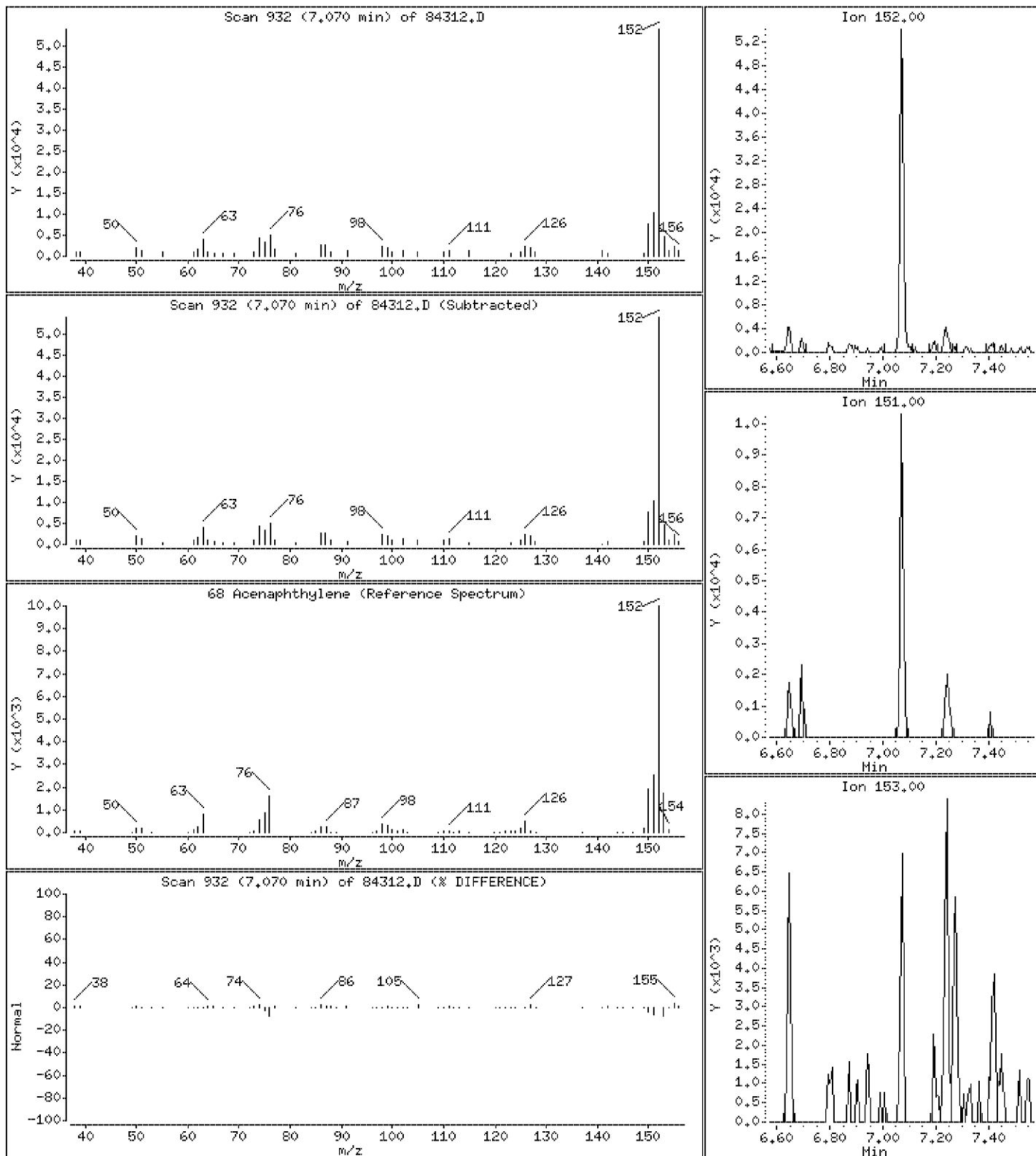
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

68 Acenaphthylene

Concentration: 86.3 ug/kg



Date : 04-MAY-2012 17:20

Client ID: EPAFMC-SD-16

Instrument: smsd03.i

Sample Info: SW350584312

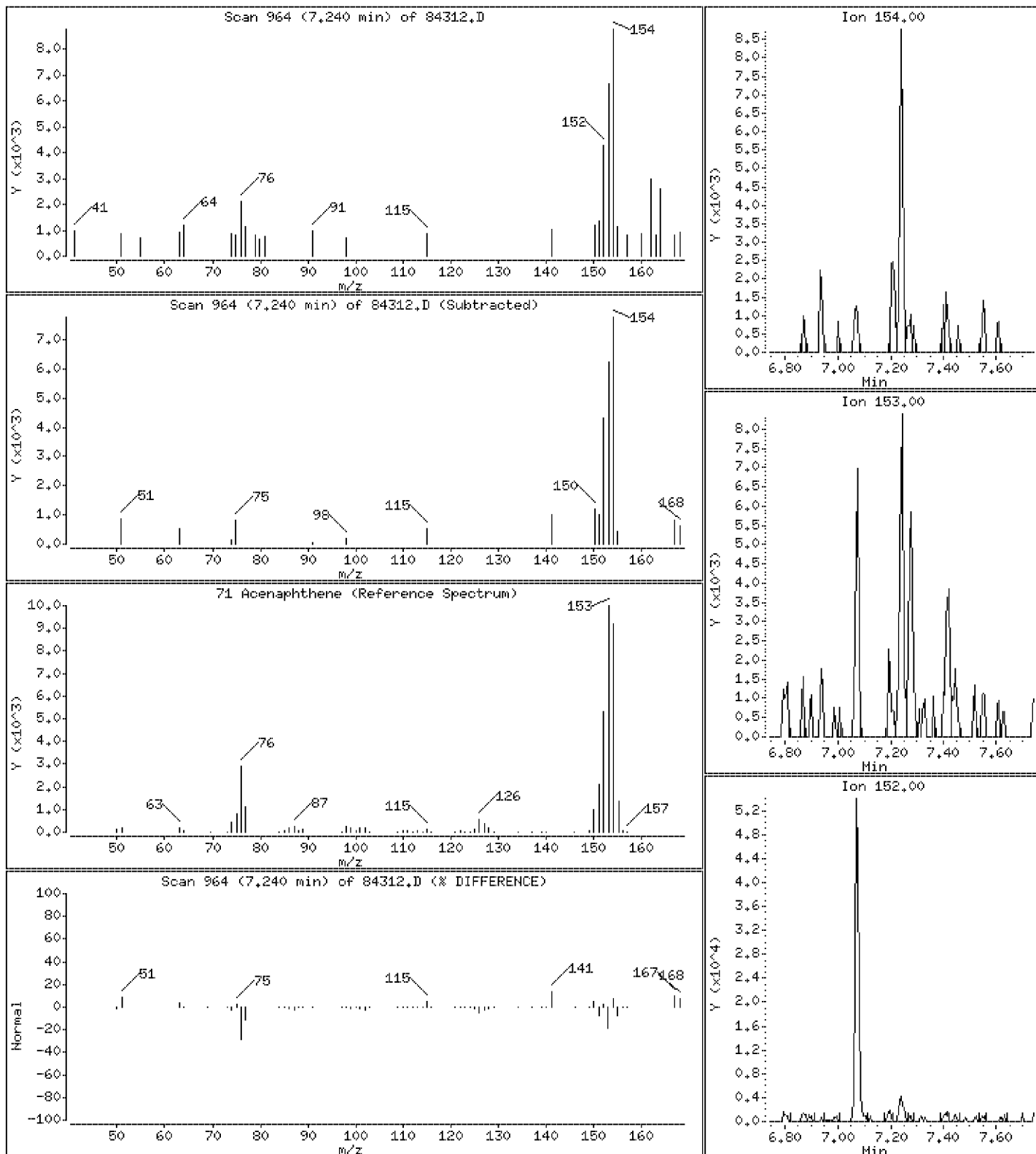
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

71 Acenaphthene

Concentration: 20.7 ug/kg



Date : 04-MAY-2012 17:20

Client ID: EPAFMC-SD-16

Instrument: smsd03.i

Sample Info: SW350584312

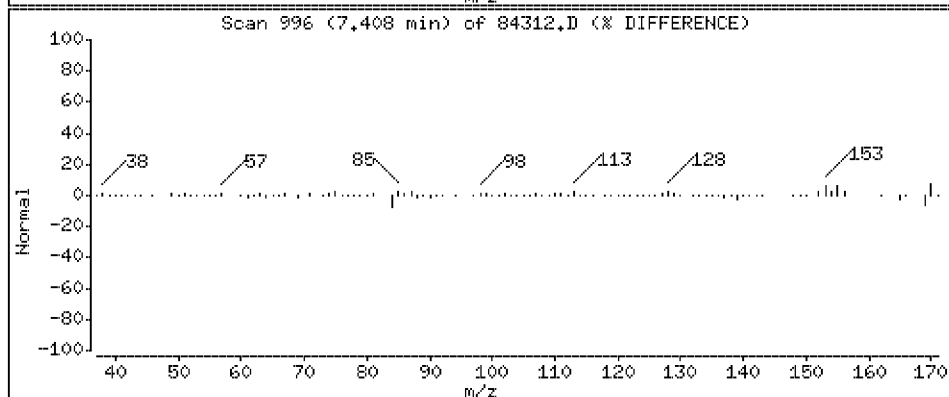
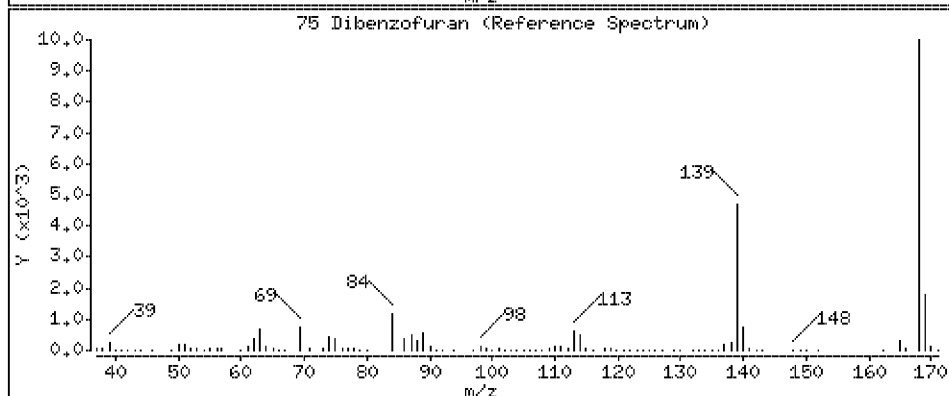
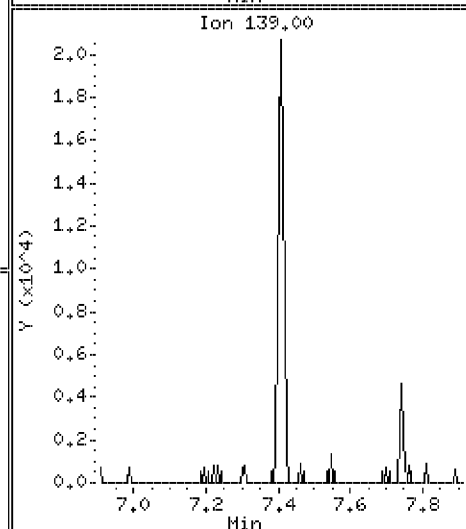
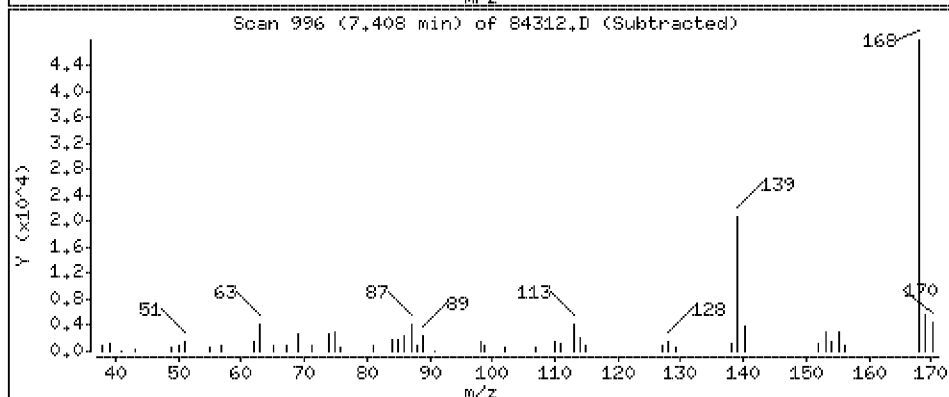
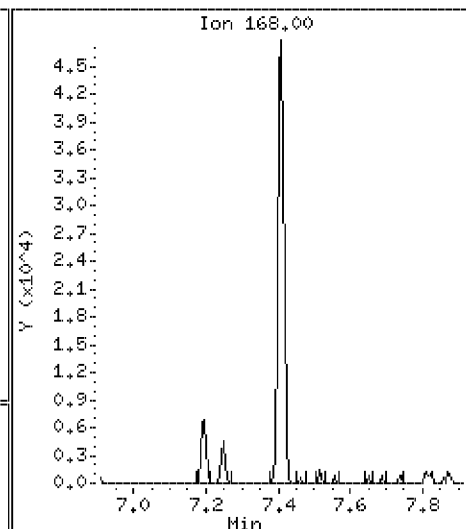
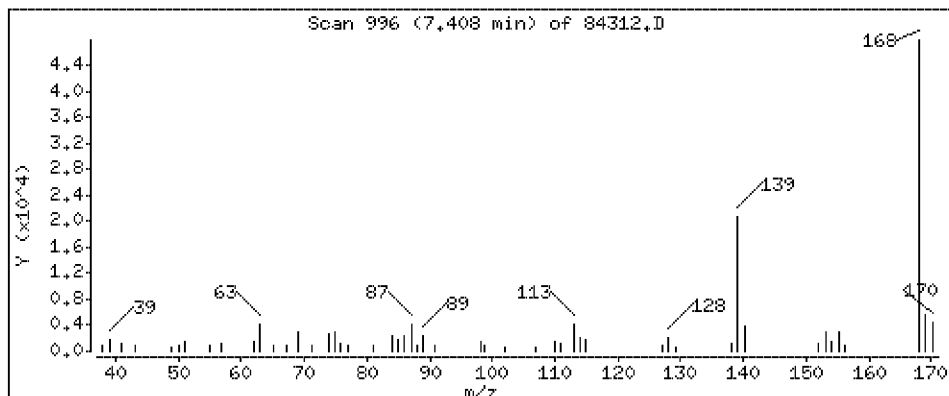
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

75 Dibenzofuran

Concentration: 77.6 ug/kg



Date : 04-MAY-2012 17:20

Client ID: EPAFMC-SD-16

Instrument: smsd03.i

Sample Info: SW350584312

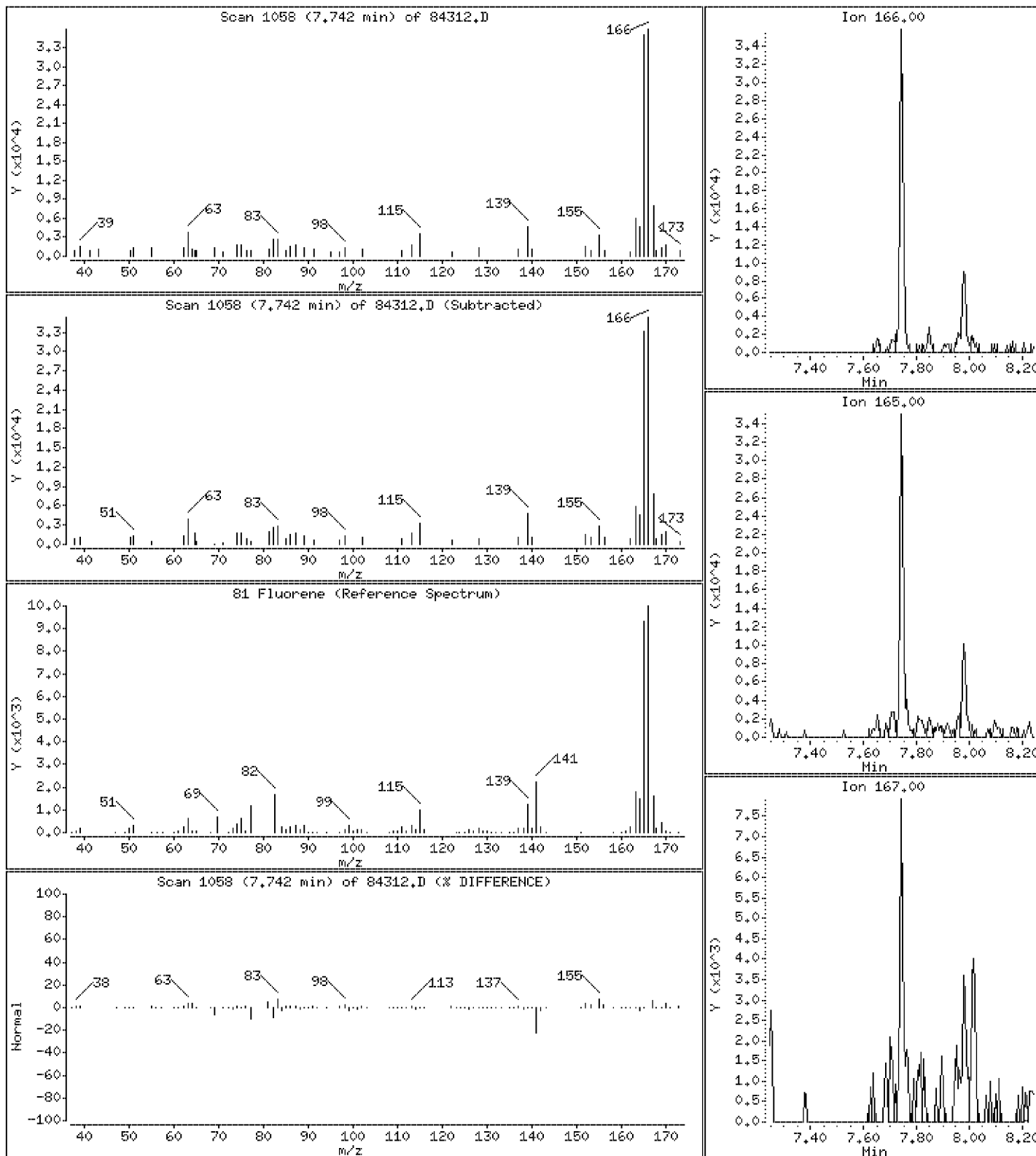
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

81 Fluorene

Concentration: 66.6 ug/kg



Date : 04-MAY-2012 17:20

Client ID: EPAFMC-SD-16

Instrument: smsd03.i

Sample Info: SW350584312

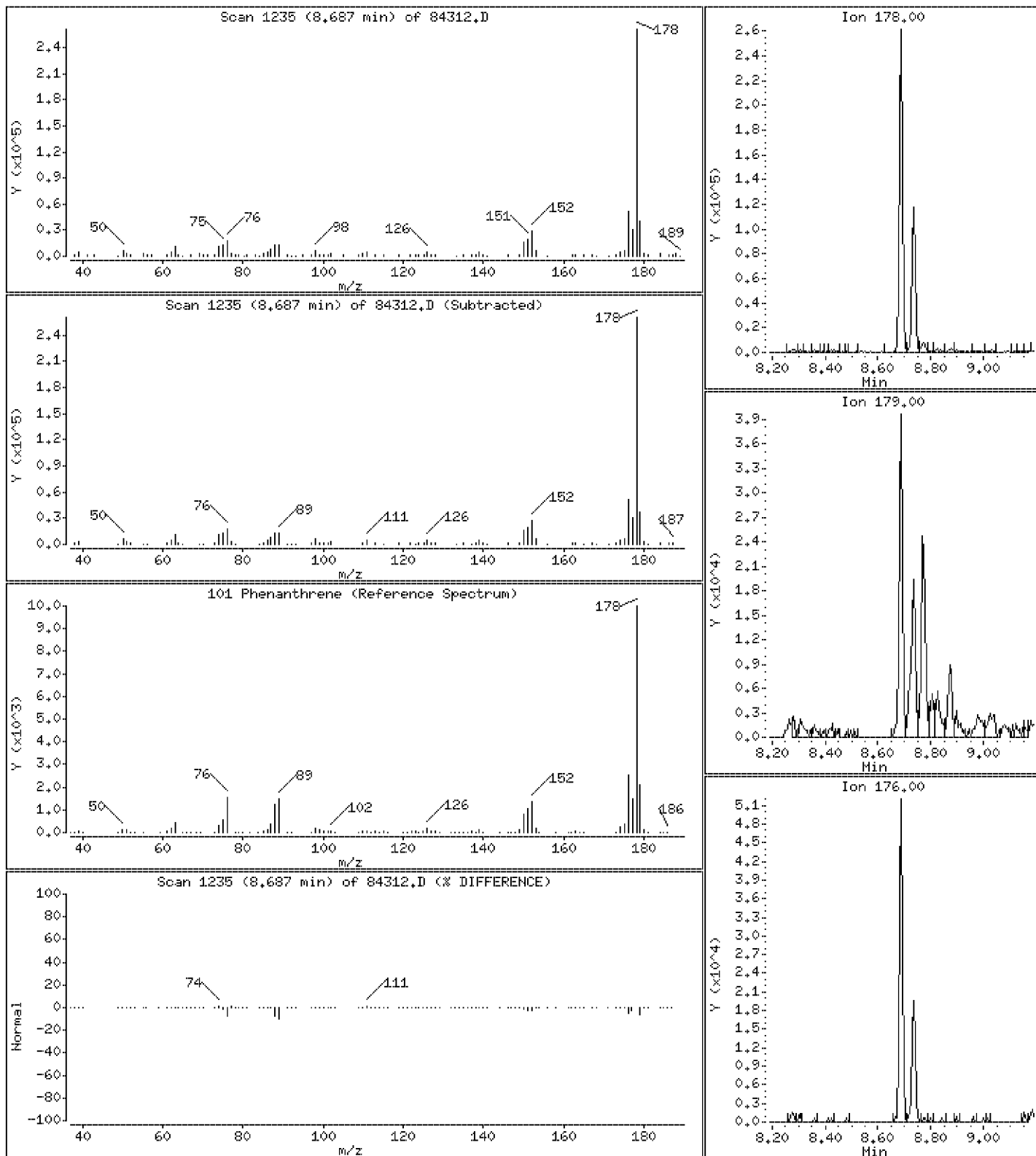
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

101 Phenanthrene

Concentration: 314 ug/kg



Date : 04-MAY-2012 17:20

Client ID: EPAFMC-SD-16

Instrument: smsd03.i

Sample Info: SW350584312

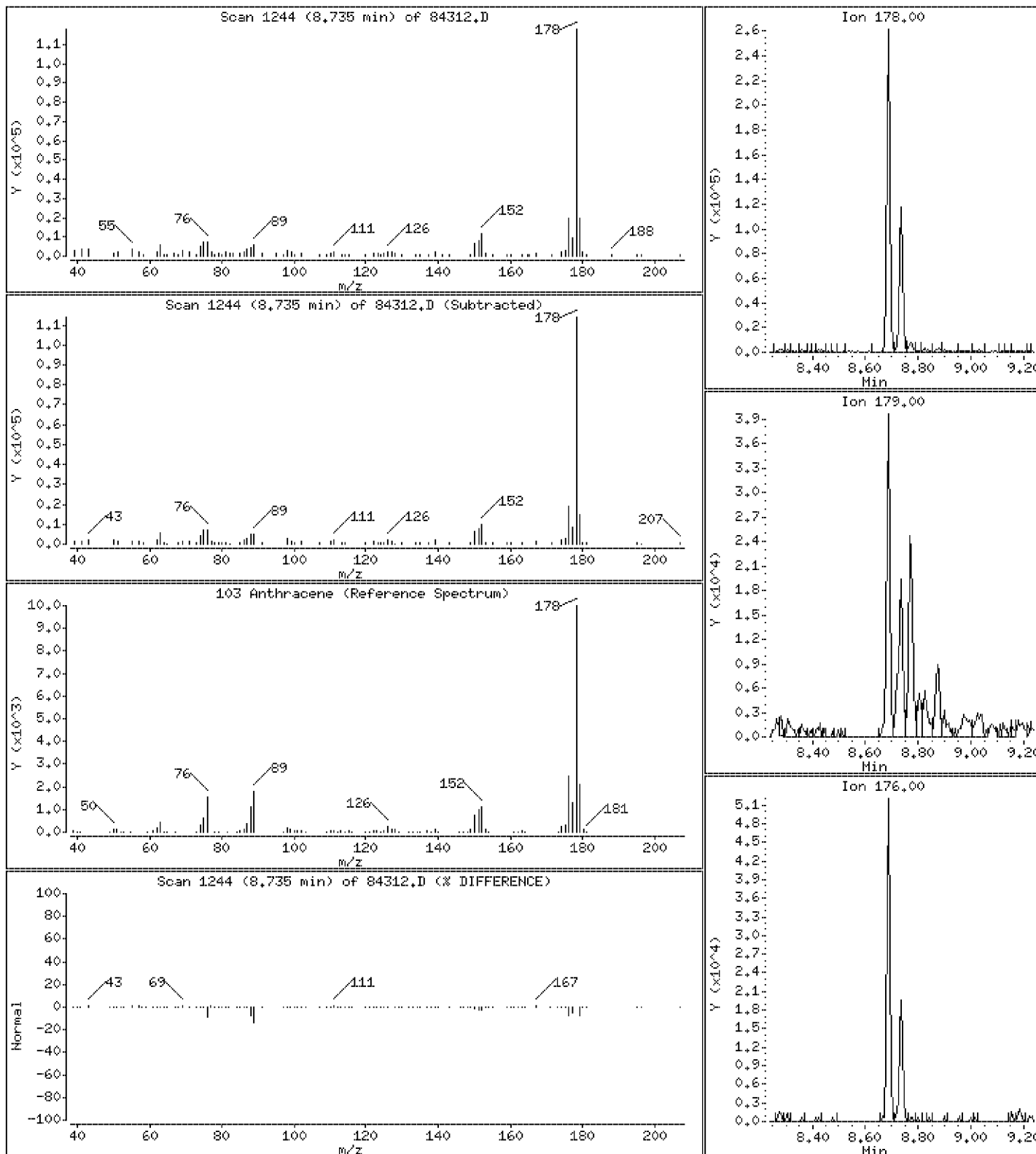
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

103 Anthracene

Concentration: 152 ug/kg



Date : 04-MAY-2012 17:20

Client ID: EPAFMC-SD-16

Instrument: smsd03.i

Sample Info: SW350584312

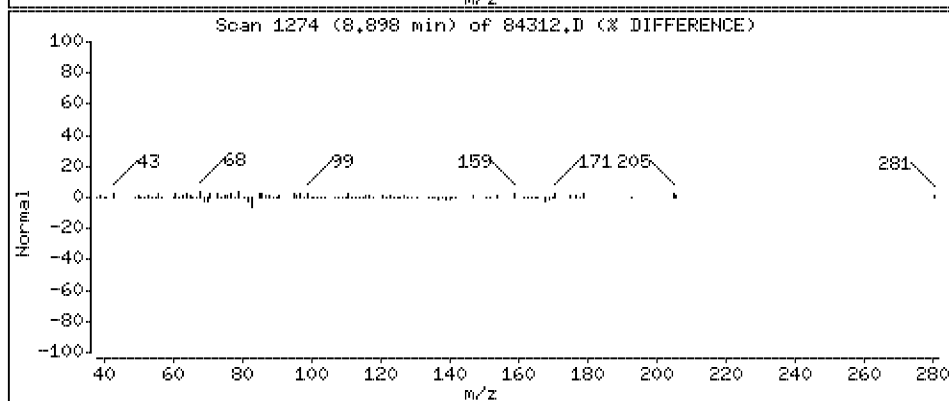
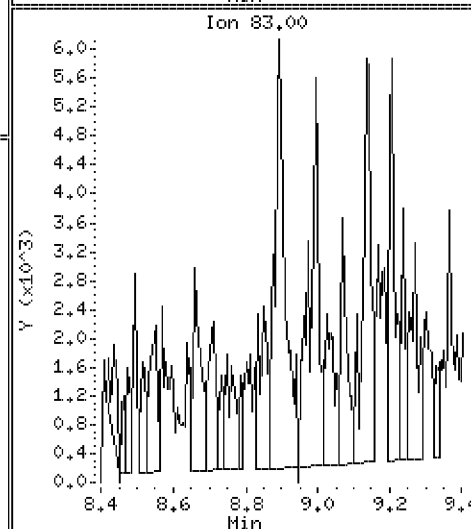
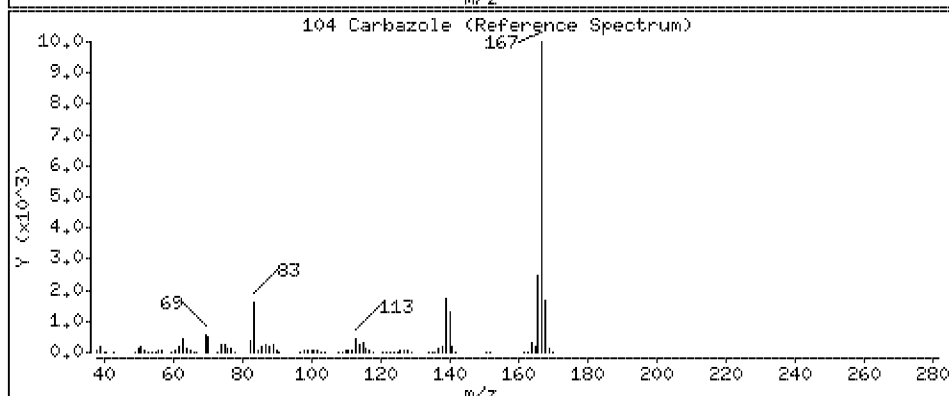
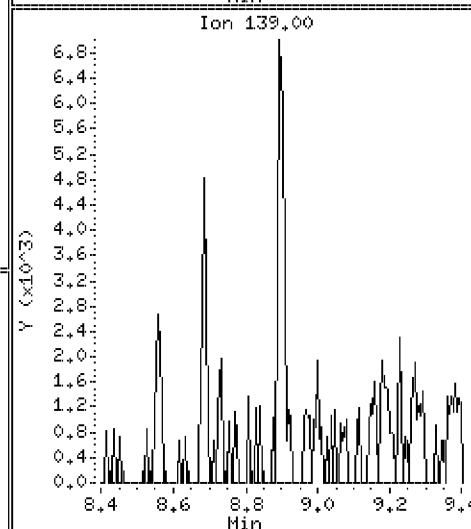
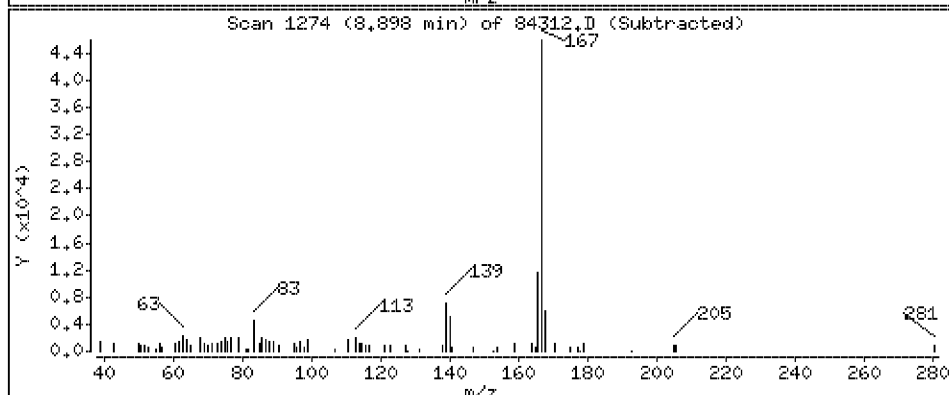
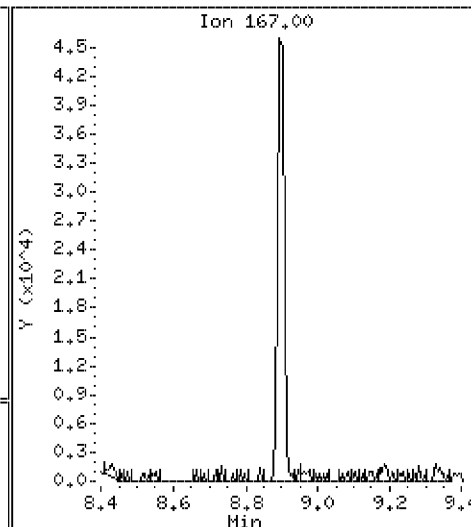
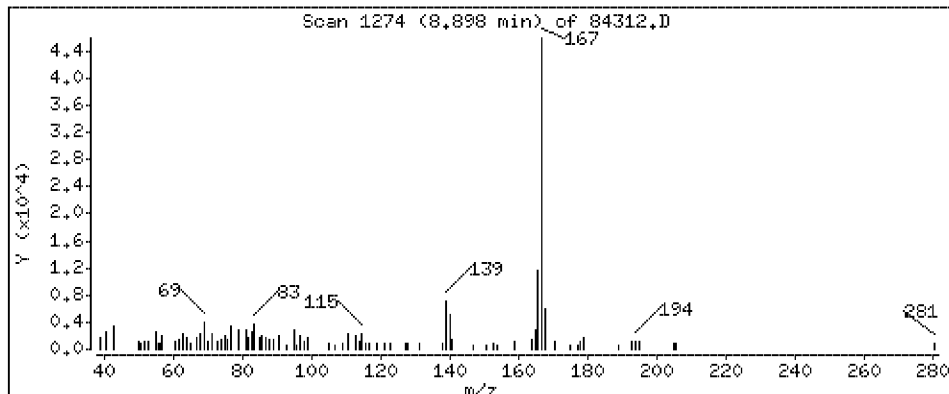
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

104 Carbazole

Concentration: 79.3 ug/kg



Date : 04-MAY-2012 17:20

Client ID: EPAFMC-SD-16

Instrument: smsd03.i

Sample Info: SW350584312

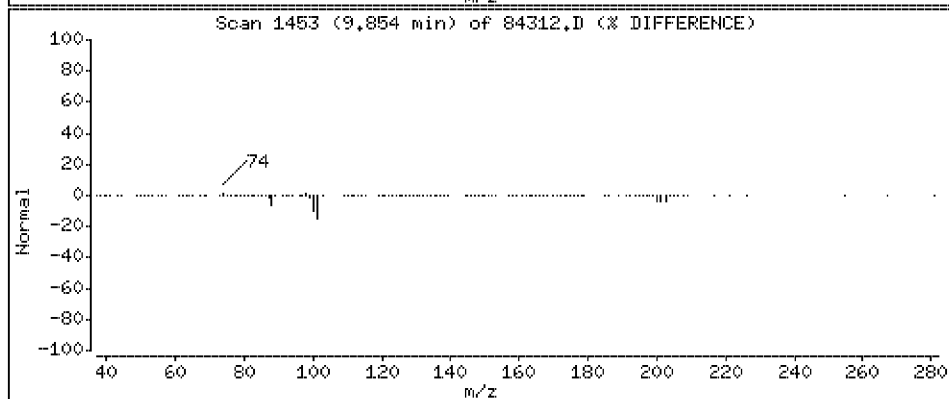
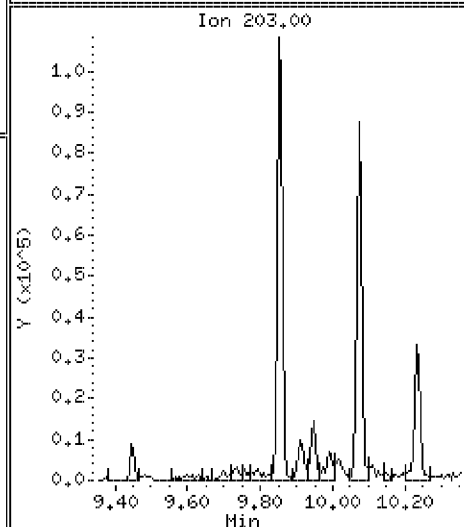
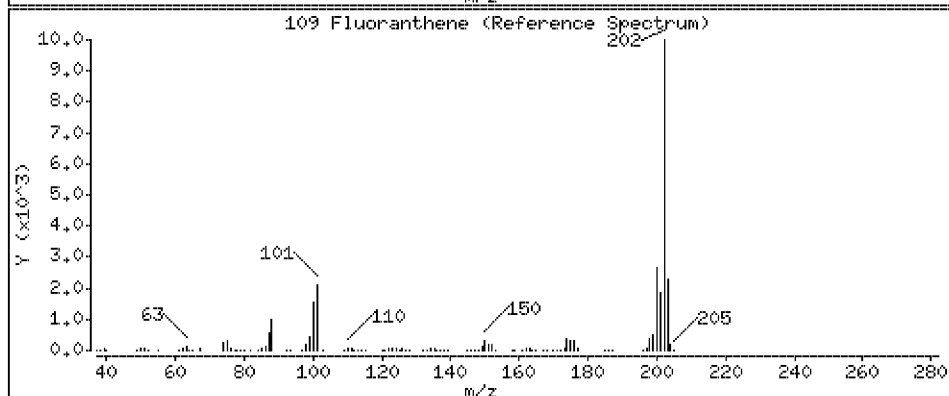
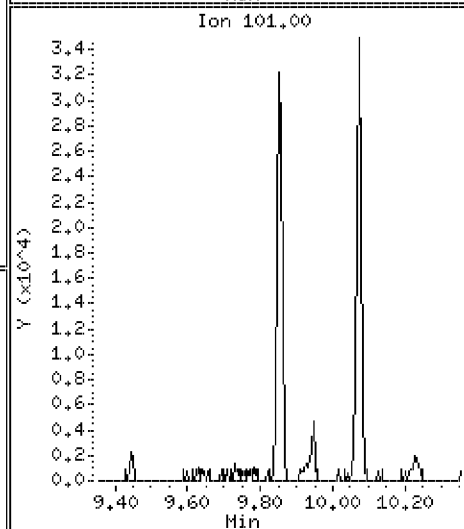
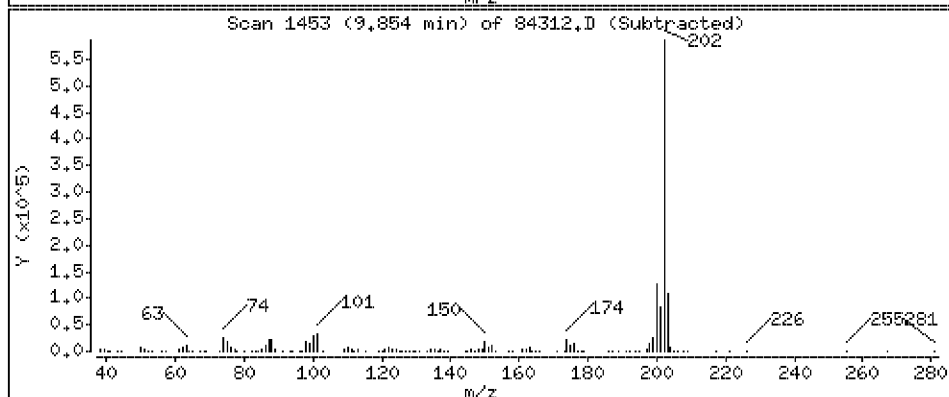
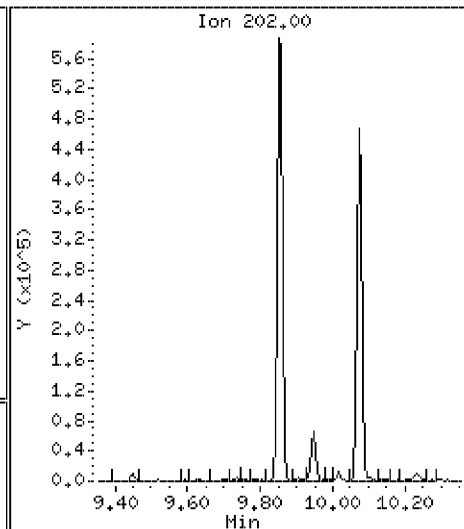
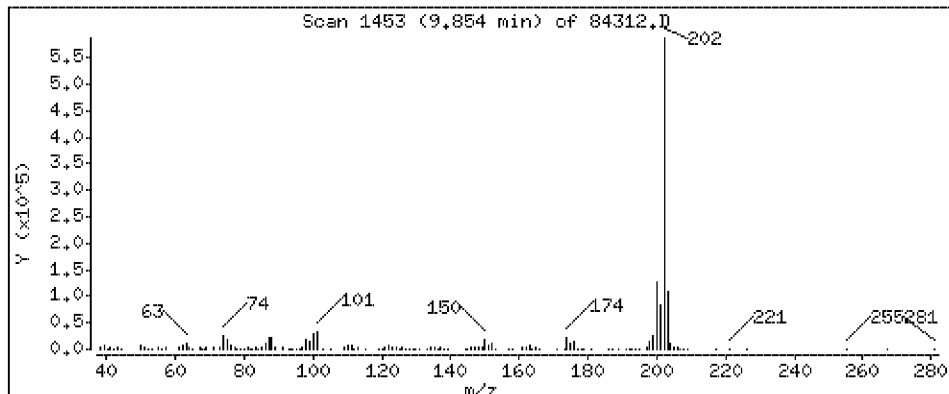
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

109 Fluoranthene

Concentration: 710 ug/kg



Date : 04-MAY-2012 17:20

Client ID: EPAFMC-SD-16

Instrument: smsd03.i

Sample Info: SW350584312

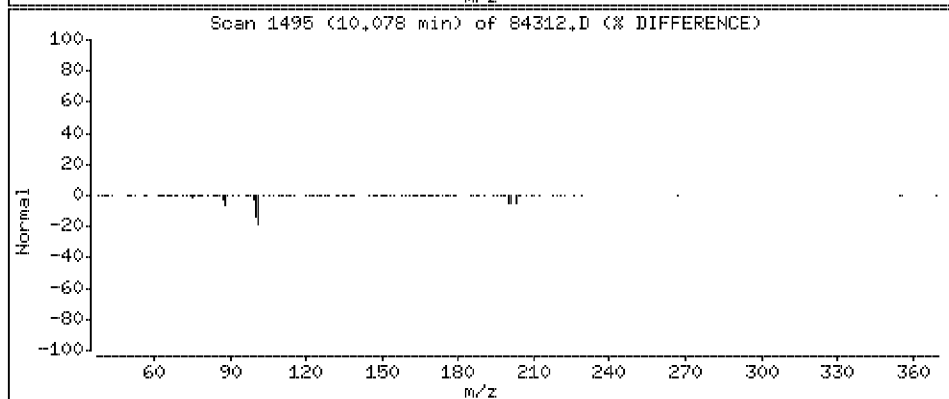
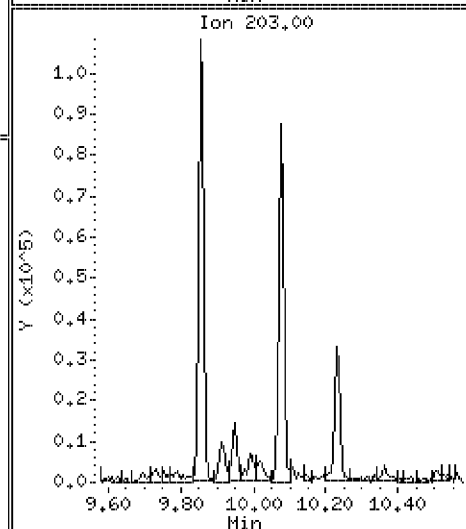
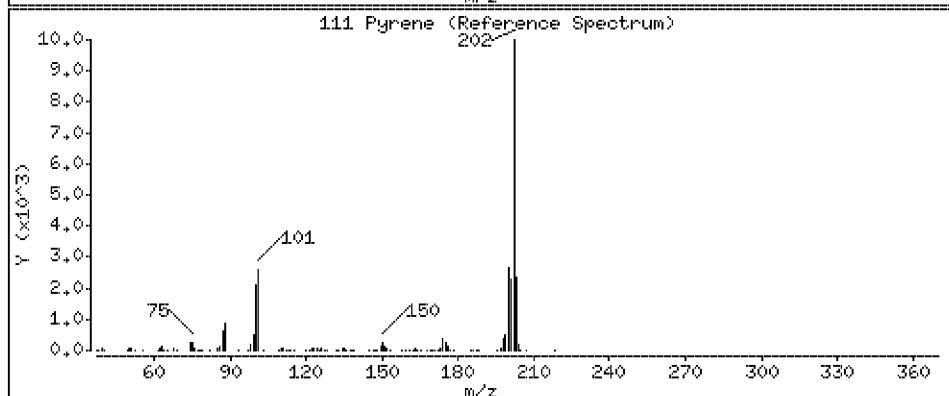
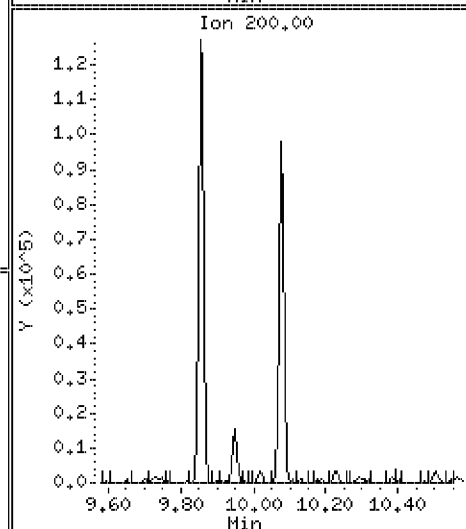
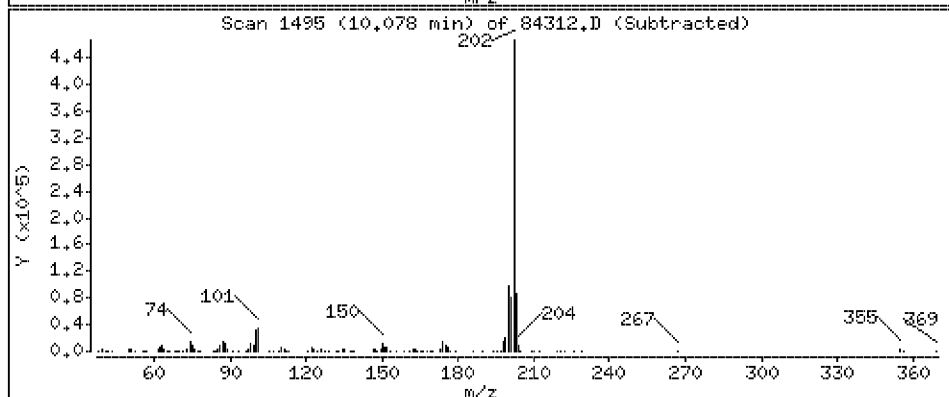
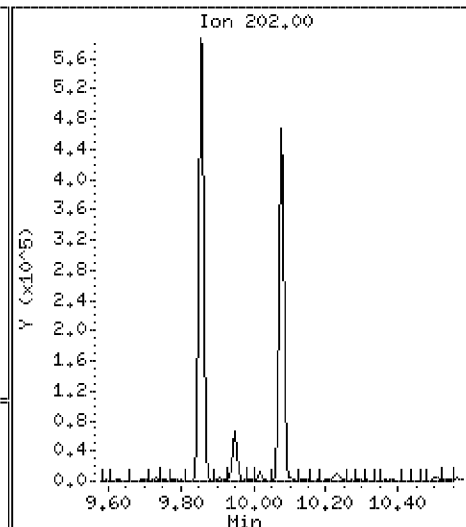
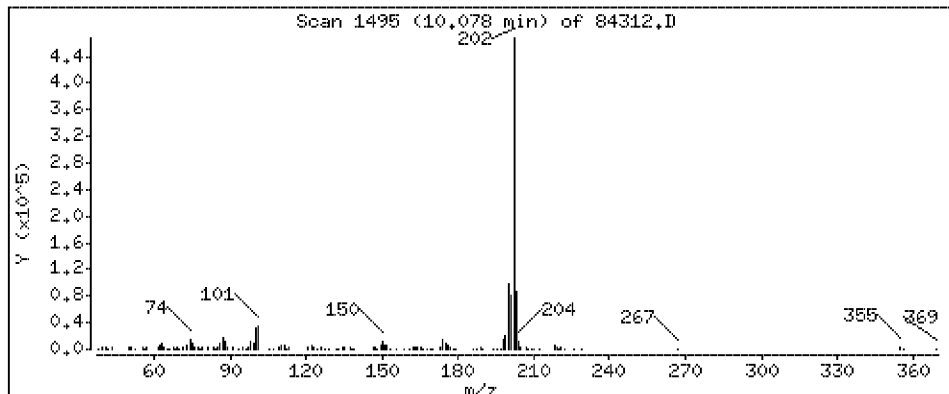
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

111 Pyrene

Concentration: 610 ug/kg



Date : 04-MAY-2012 17:20

Client ID: EPAFMC-SD-16

Instrument: smsd03.i

Sample Info: SW350584312

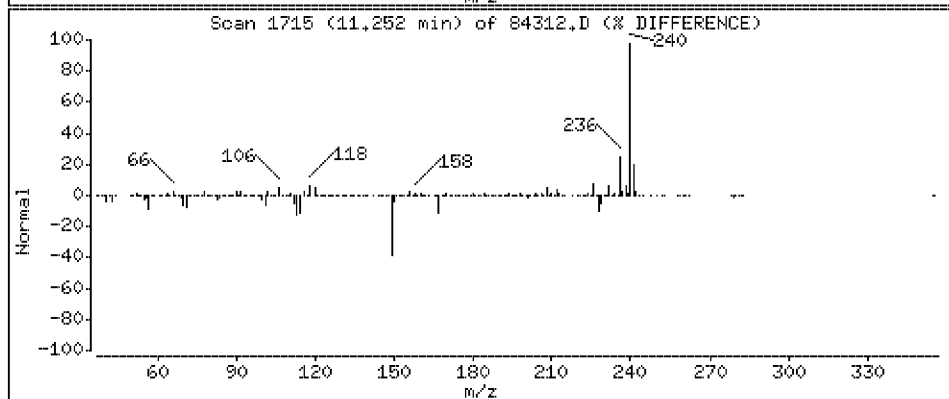
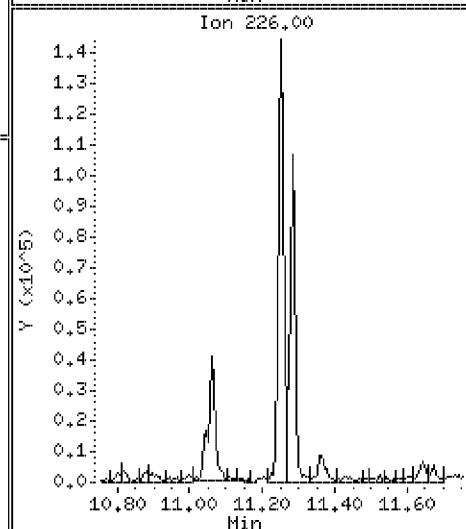
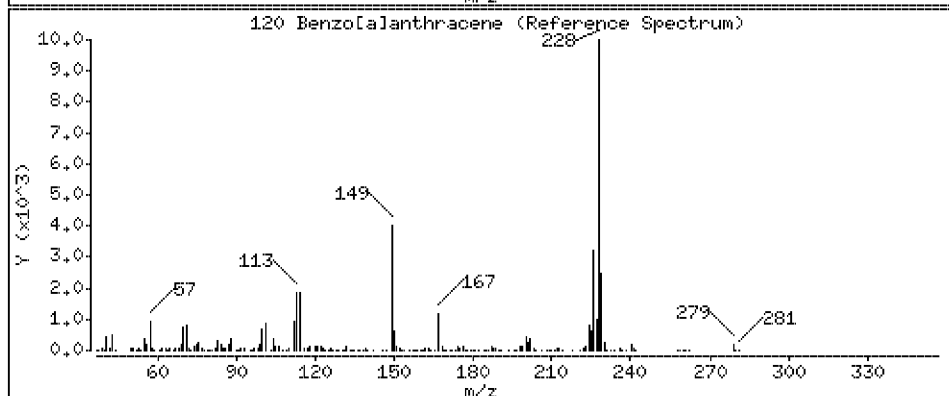
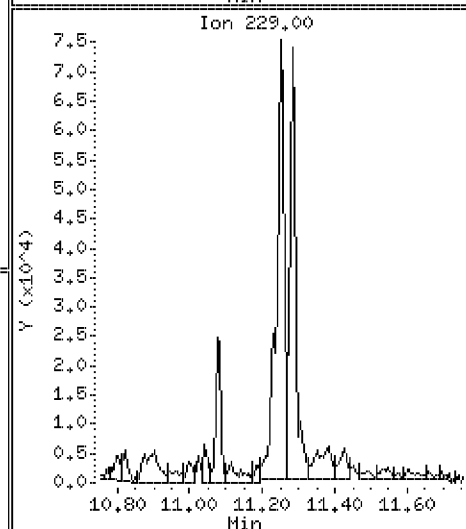
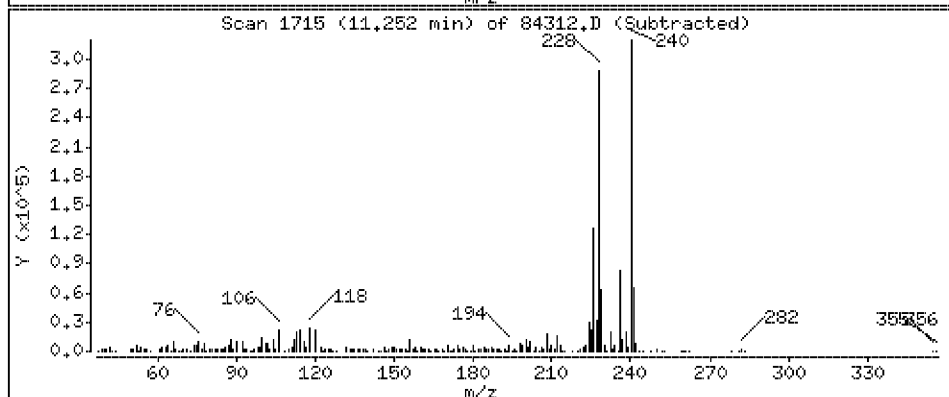
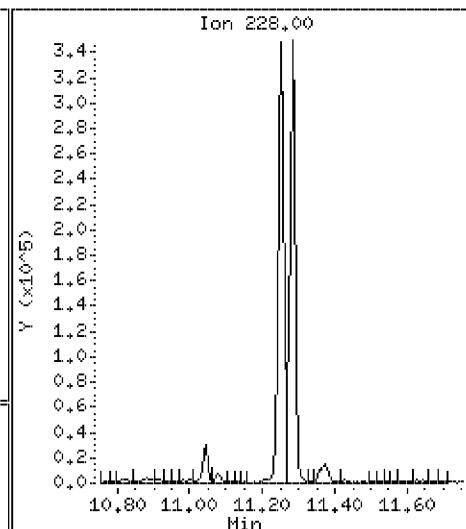
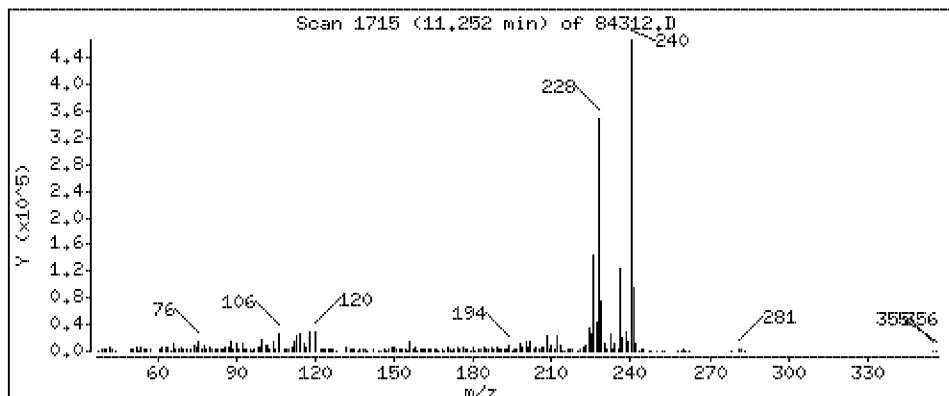
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

120 Benzo[*a*]anthracene

Concentration: 414 ug/kg



Date : 04-MAY-2012 17:20

Client ID: EPAFMC-SD-16

Instrument: smsd03.i

Sample Info: SW350584312

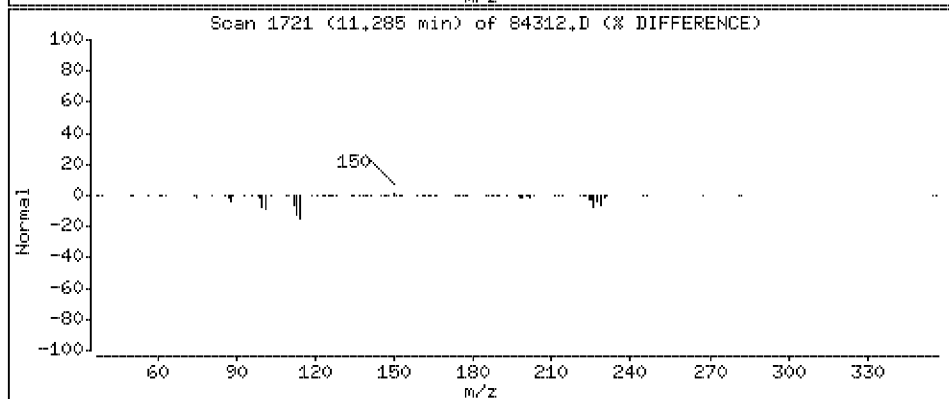
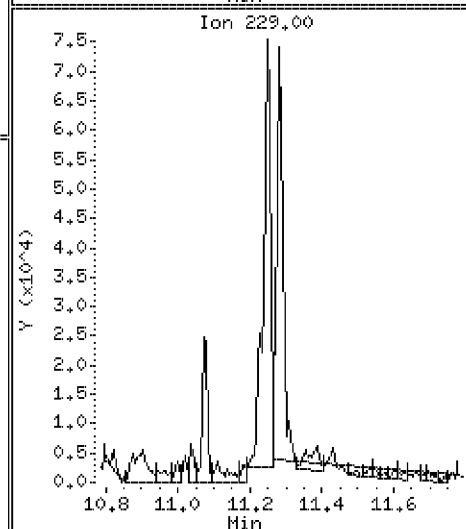
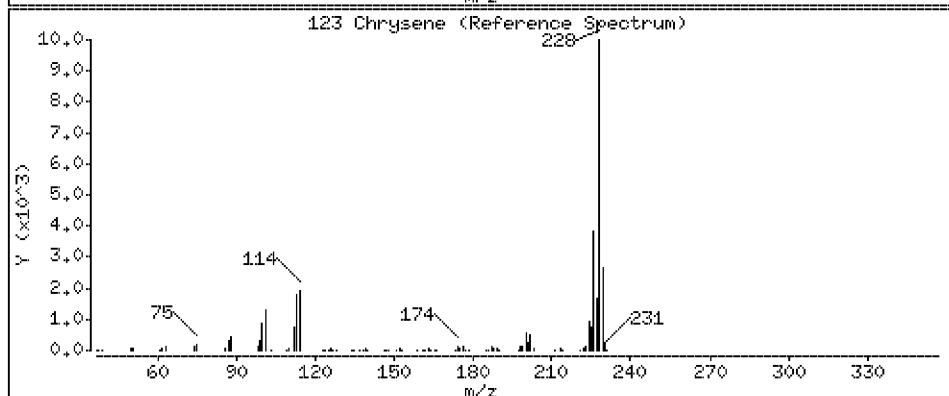
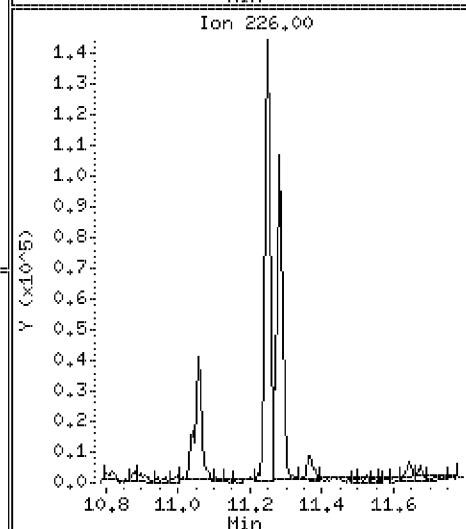
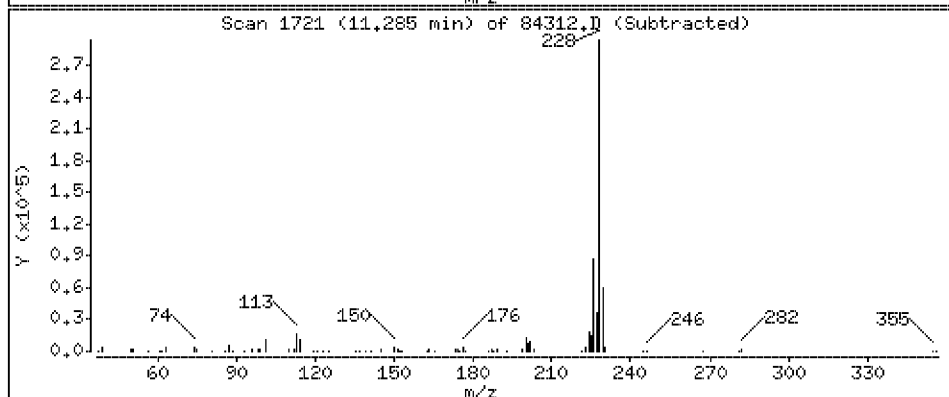
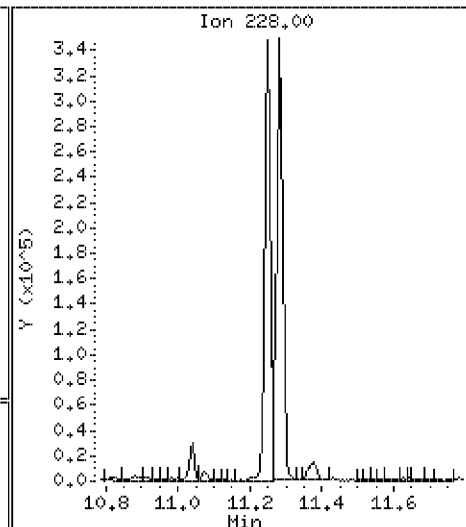
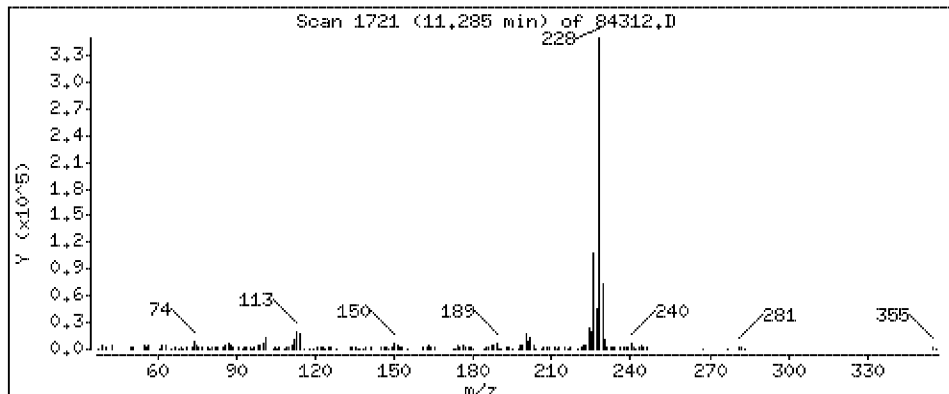
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

123 Chrysene

Concentration: 438 ug/kg



Date : 04-MAY-2012 17:20

Client ID: EPAFMC-SD-16

Instrument: smsd03.i

Sample Info: SW350584312

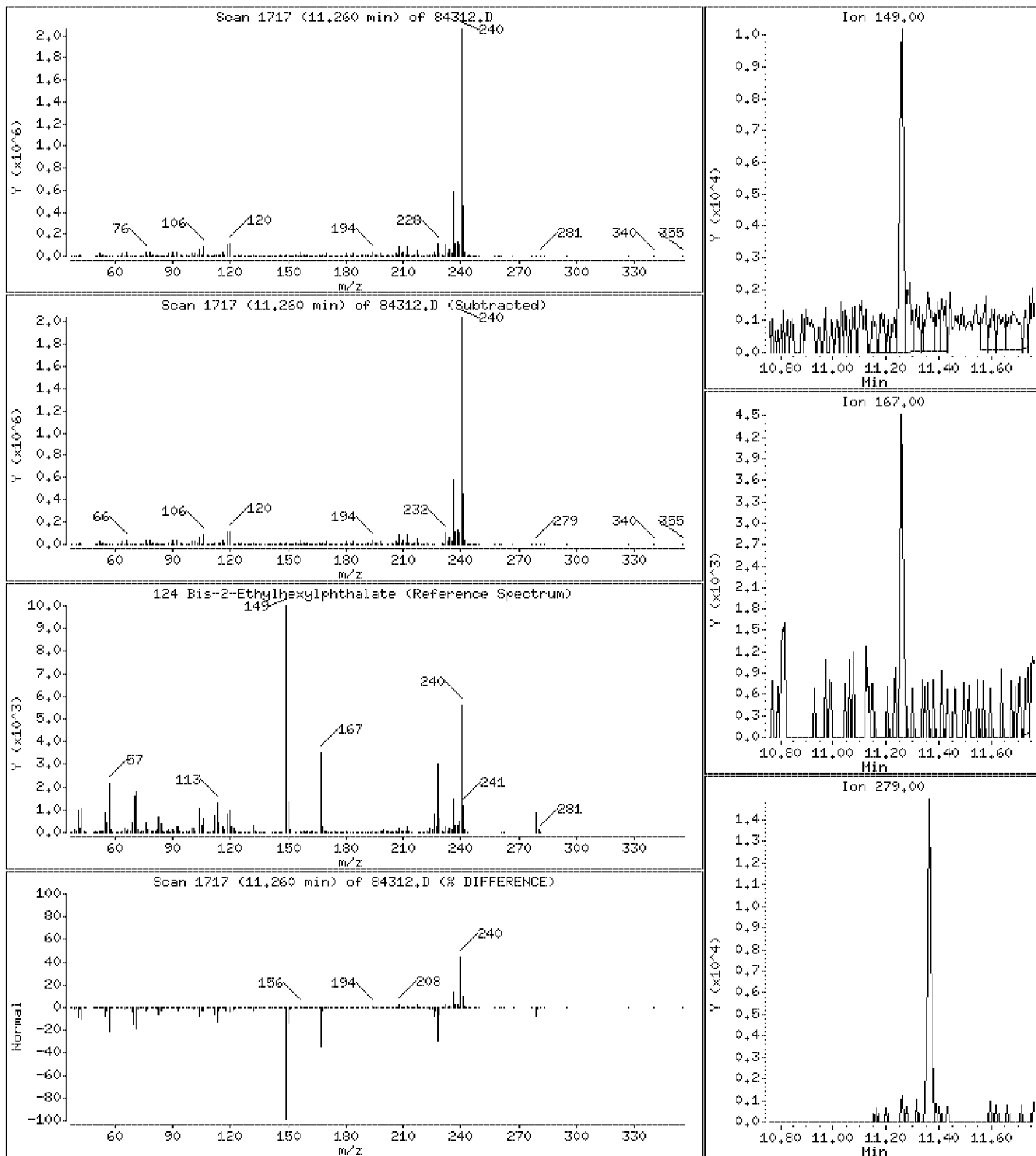
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

124 Bis-2-Ethylhexylphthalate

Concentration: 19.0 ug/kg



Date : 04-MAY-2012 17:20

Client ID: EPAFMC-SD-16

Instrument: smsd03.i

Sample Info: SW350584312

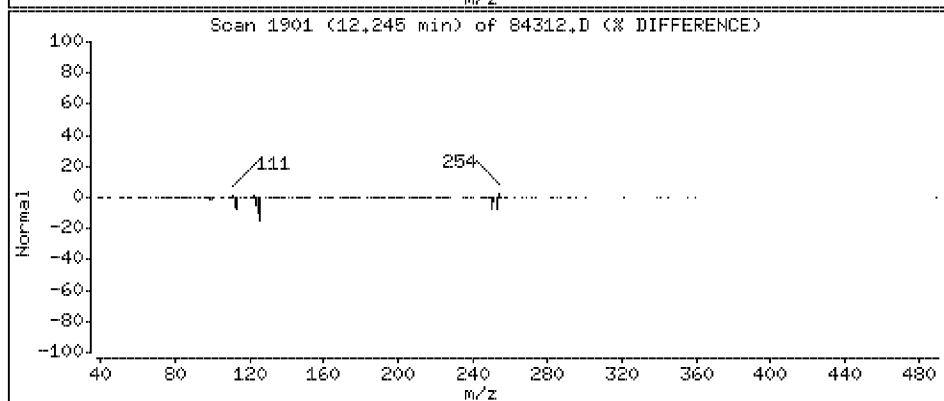
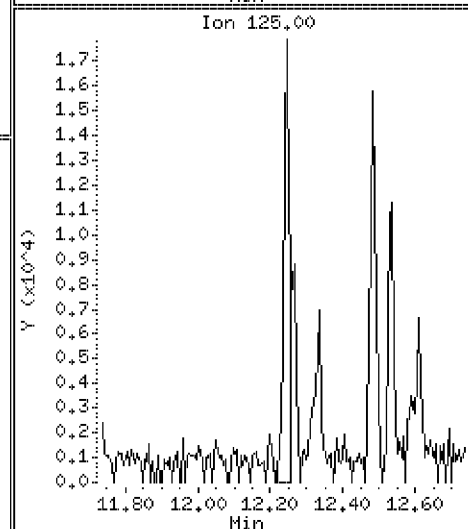
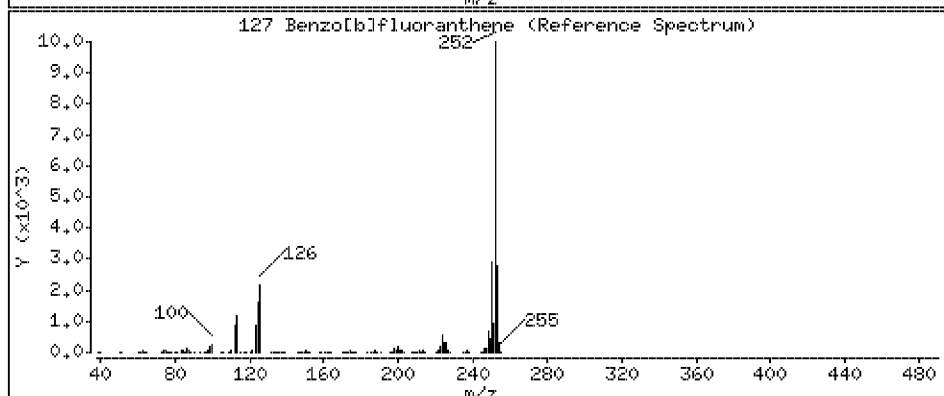
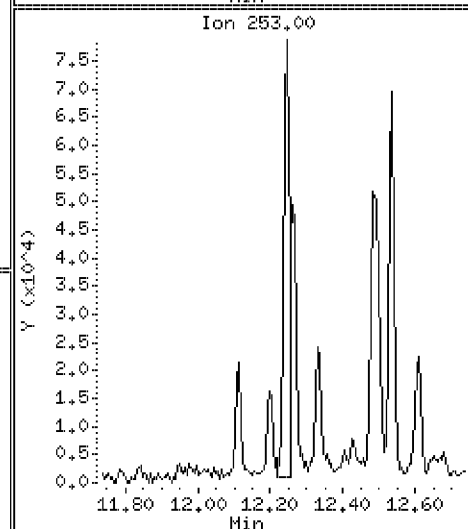
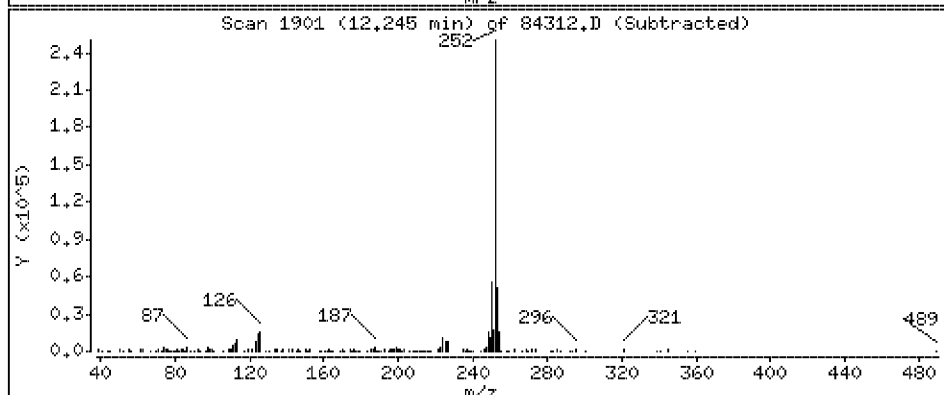
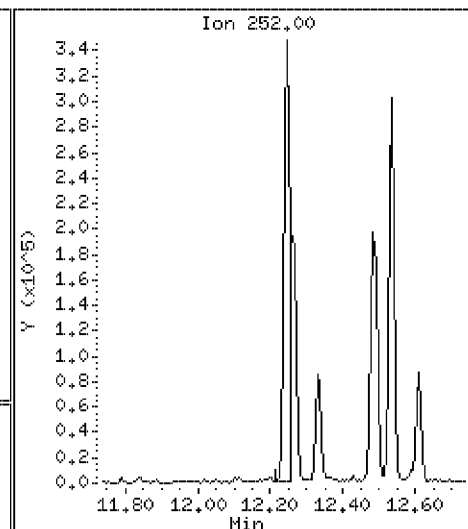
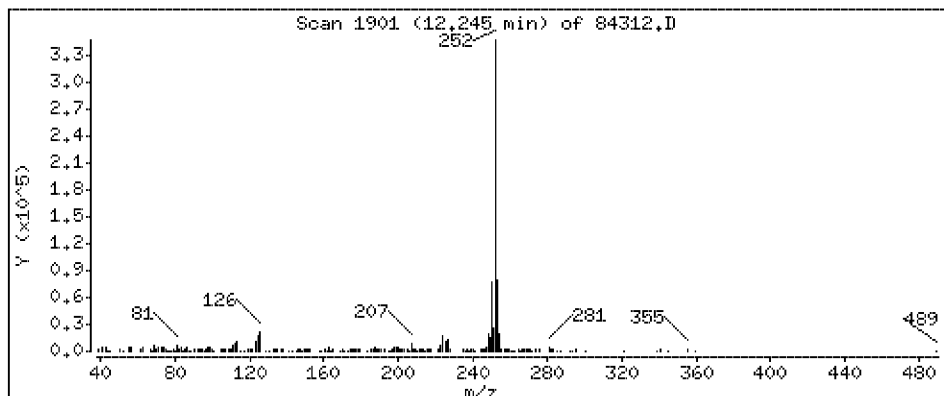
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

127 Benzo[b]fluoranthene

Concentration: 410 ug/kg



Date : 04-MAY-2012 17:20

Client ID: EPAFMC-SD-16

Instrument: smsd03.i

Sample Info: SW350584312

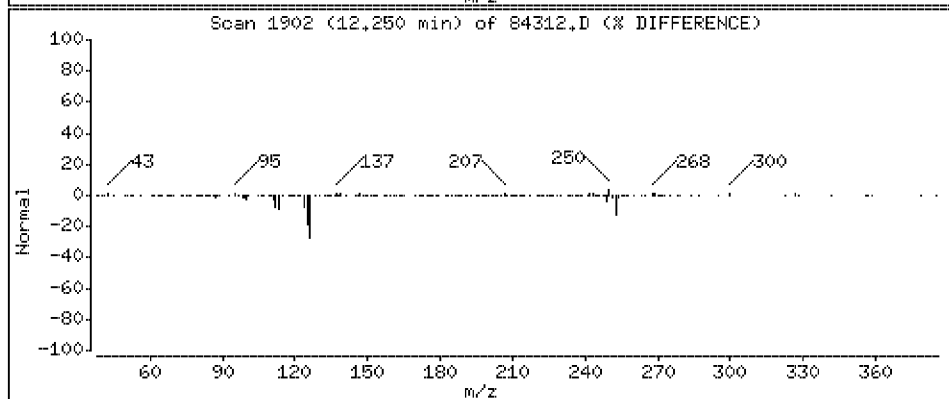
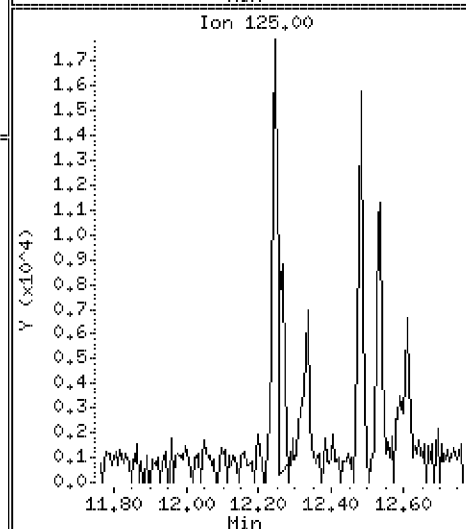
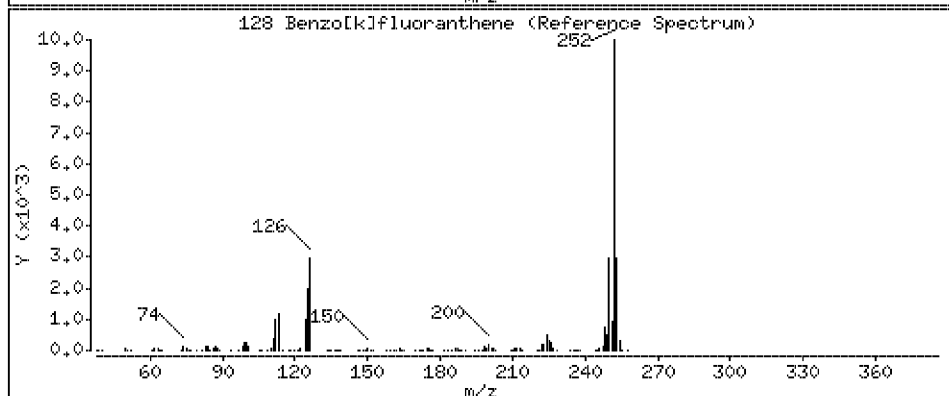
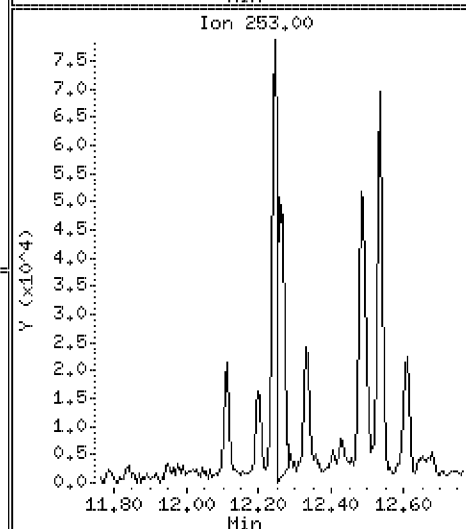
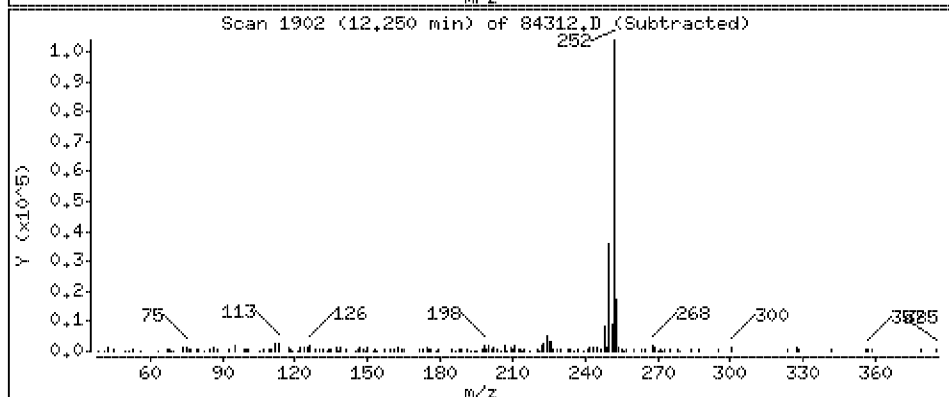
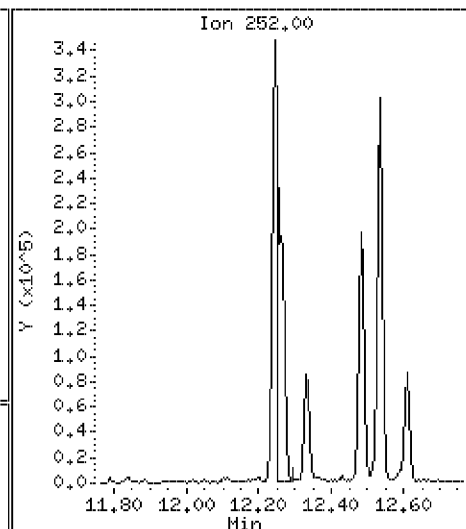
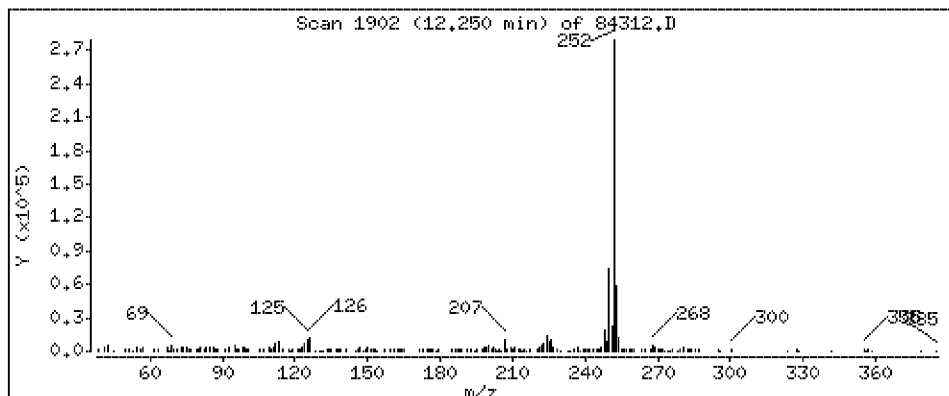
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

128 Benzo[k]fluoranthene

Concentration: 329 ug/kg



Date : 04-MAY-2012 17:20

Client ID: EPAFMC-SD-16

Instrument: smsd03.i

Sample Info: SW350584312

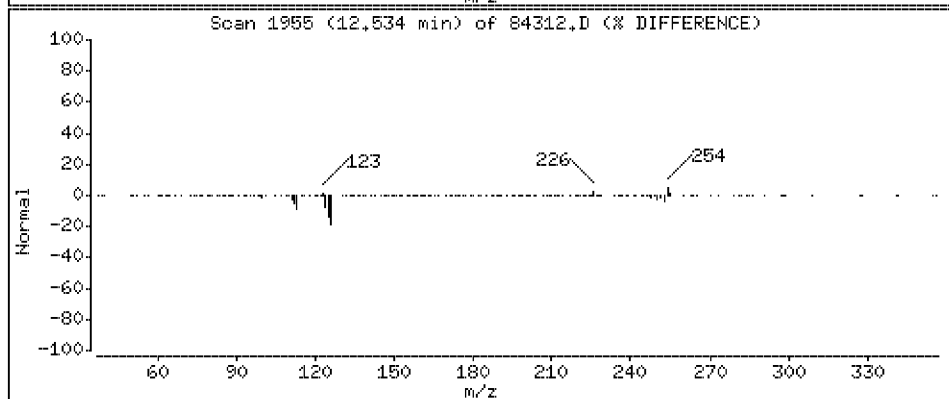
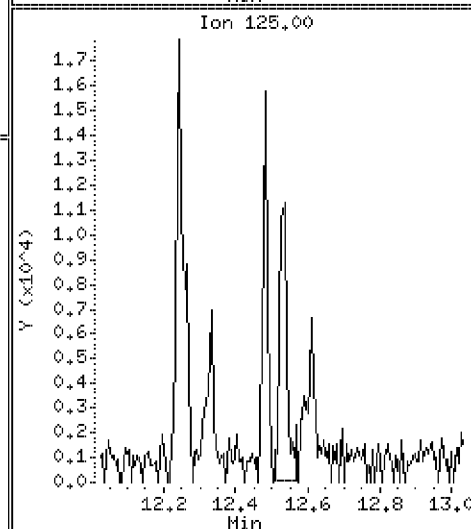
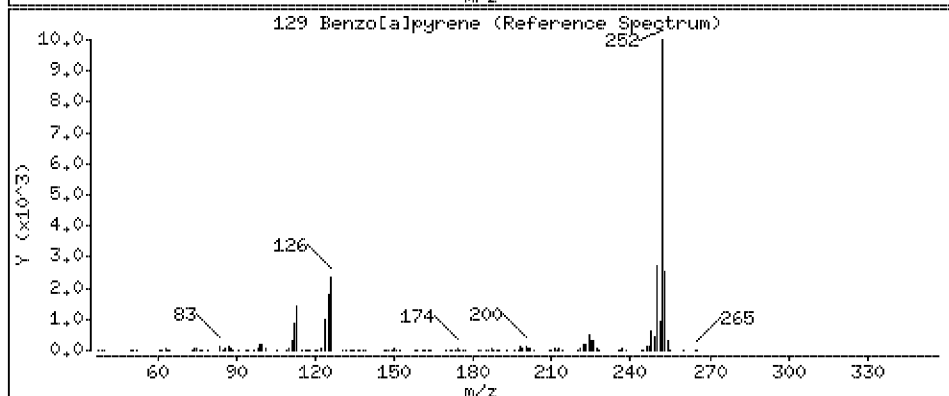
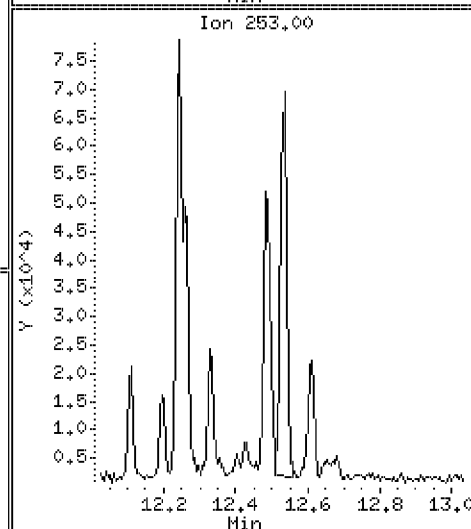
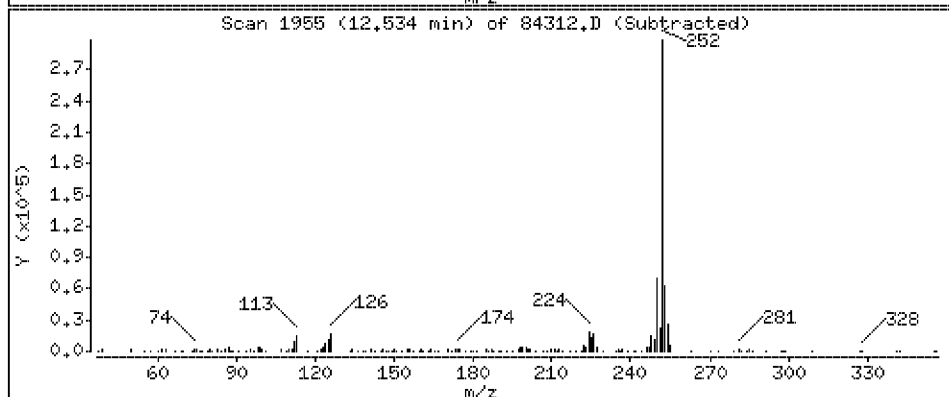
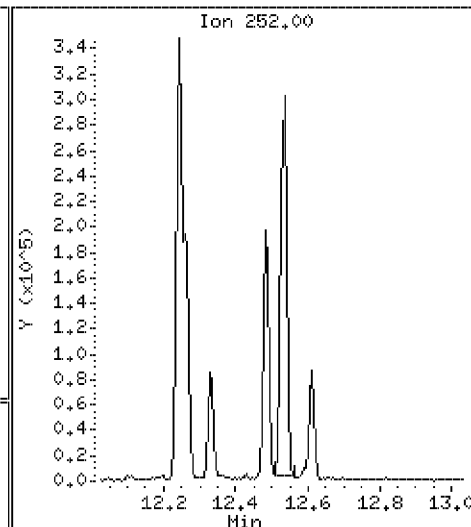
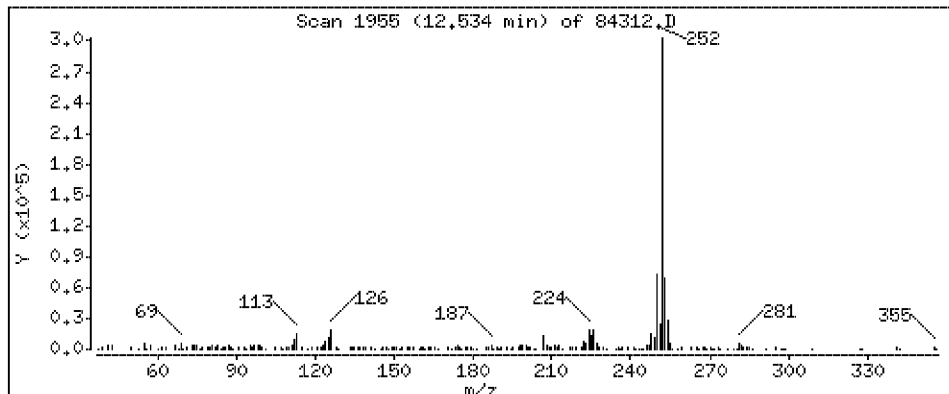
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

129 Benzo[a]pyrene

Concentration: 303 ug/kg



Date : 04-MAY-2012 17:20

Client ID: EPAFMC-SD-16

Instrument: smsd03.i

Sample Info: SW350584312

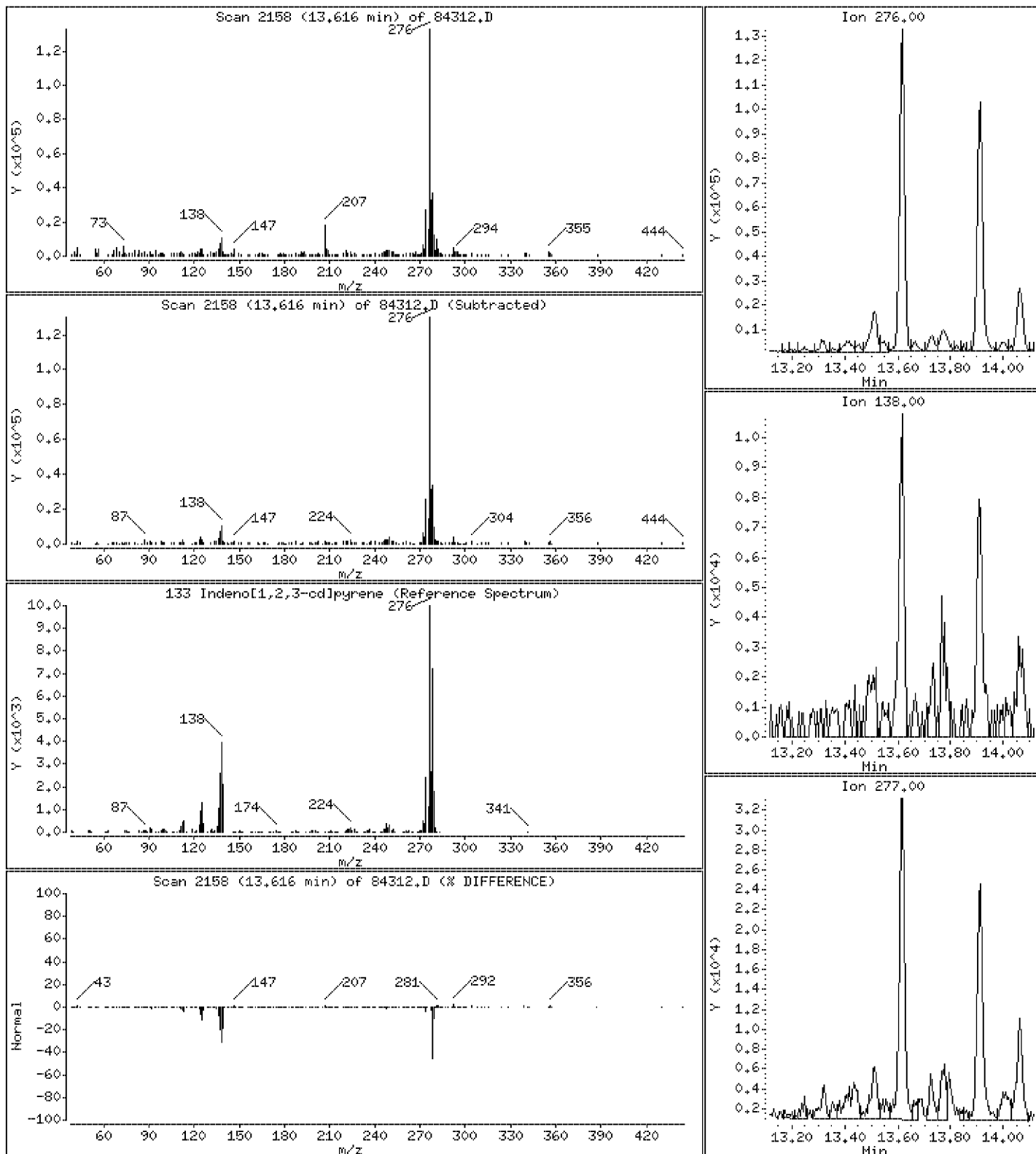
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

133 Indeno[1,2,3-cd]pyrene

Concentration: 145 ug/kg



Date : 04-MAY-2012 17:20

Client ID: EPAFMC-SD-16

Instrument: smsd03.i

Sample Info: SW350584312

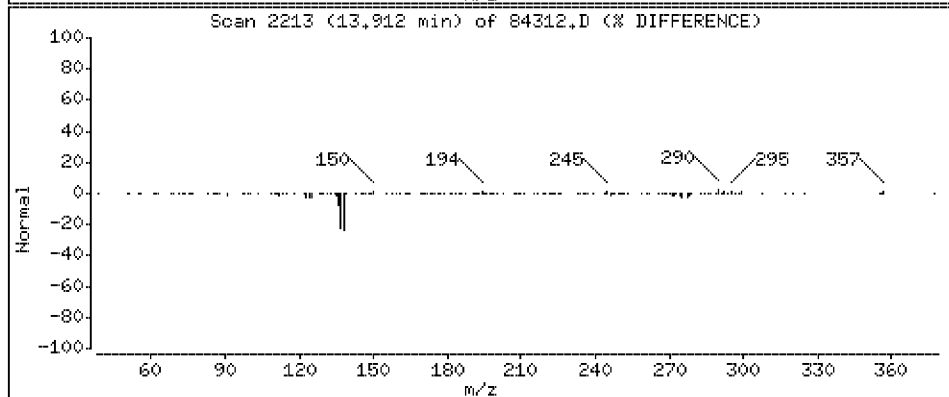
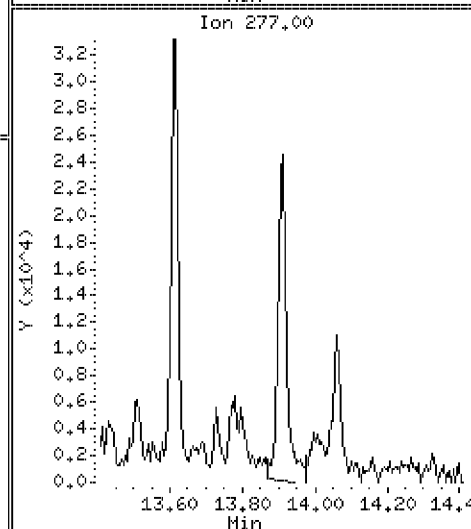
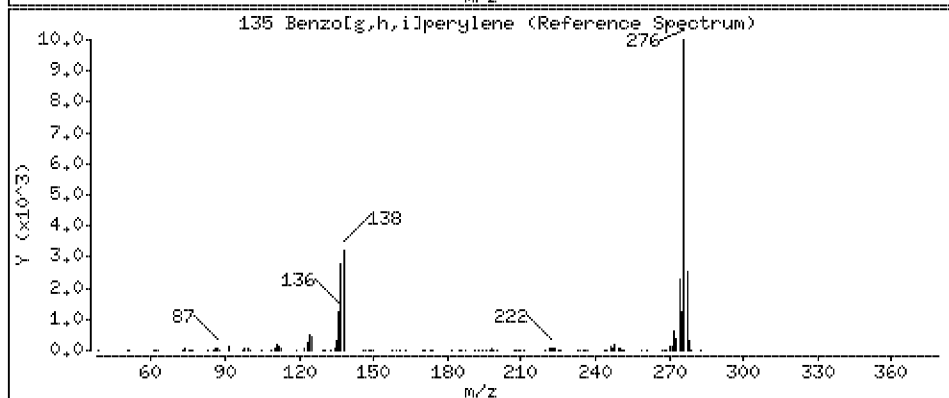
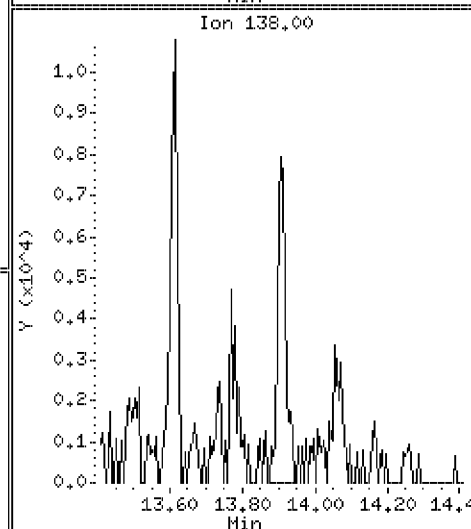
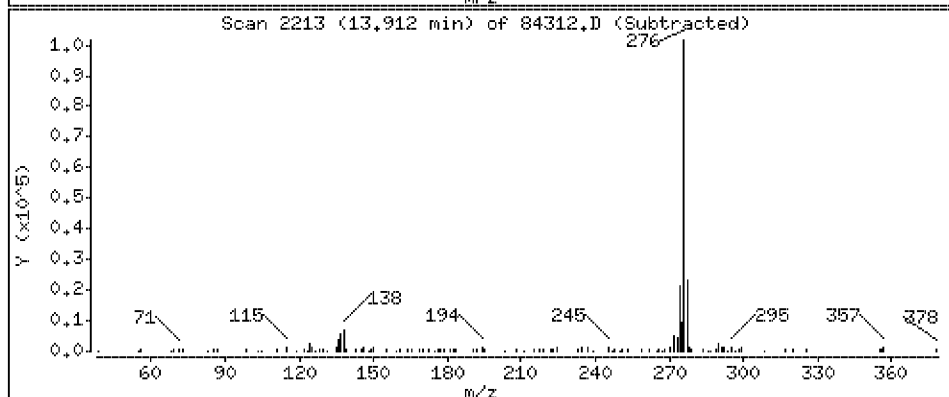
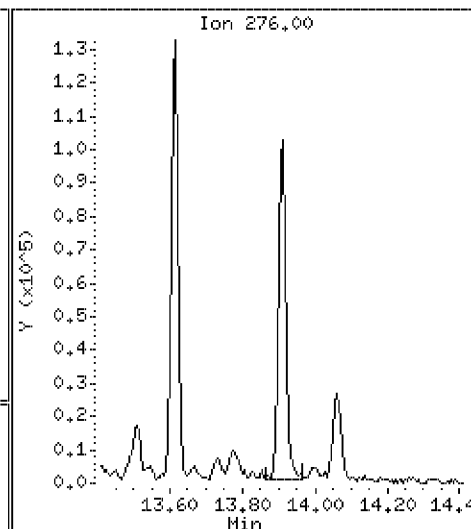
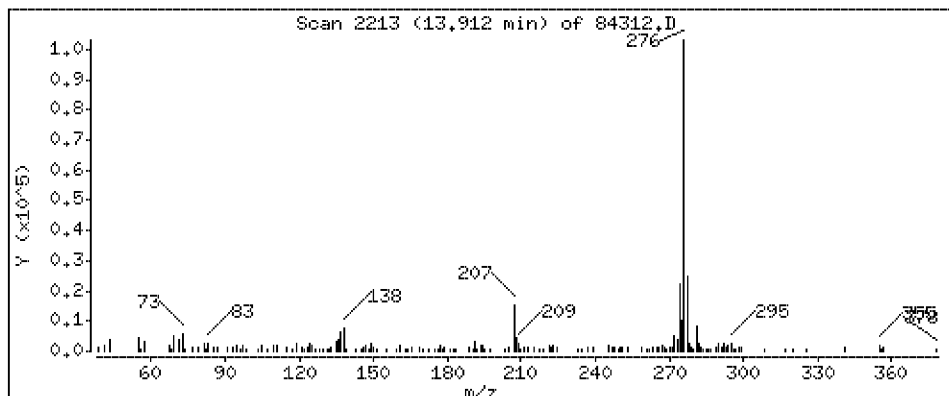
Operator: PEL

Column phase: HPMS-5

Column diameter: 0.25

135 Benzo[g,h,i]perylene

Concentration: 164 ug/kg



Raw Data Method 8082

RUN LOG CHECK LIST

SDG: 3505843

Method: 8082

SAMPLE ID	LAB ID	InitialCal Reference	FILE	BATCH	COL	INSTRUMENT	RUN DATE	DILUTION
STD1061637 *	44134	SECD0403/19/12-1235-E4031912	1232CAL3.D	E4031912	1	SECD04	03/19/12 10:19	1
STD1061638 *	44821	SECD0403/19/12-1235-E4031912	1242CAL3.D	E4031912	1	SECD04	03/19/12 10:34	1
STD1061639 *	44340	SECD0403/19/12-1235-E4031912	1248CAL3.D	E4031912	1	SECD04	03/19/12 10:49	1
STD1061640 *	44135	SECD0403/19/12-1235-E4031912	2154CAL3.D	E4031912	1	SECD04	03/19/12 11:04	1
STD1061641 *	44128	SECD0403/19/12-1235-E4031912	ACAL1.D	E4031912	1	SECD04	03/19/12 11:19	1
STD1061642 *	44127	SECD0403/19/12-1235-E4031912	ACAL2.D	E4031912	1	SECD04	03/19/12 11:34	1
STD1061643 *	45333	SECD0403/19/12-1235-E4031912	ACAL3.D	E4031912	1	SECD04	03/19/12 11:49	1
STD1061644 *	44125	SECD0403/19/12-1235-E4031912	ACAL4.D	E4031912	1	SECD04	03/19/12 12:05	1
STD1061645 *	44124	SECD0403/19/12-1235-E4031912	ACAL5.D	E4031912	1	SECD04	03/19/12 12:20	1
STD1061646 *	44123	SECD0403/19/12-1235-E4031912	ACAL6.D	E4031912	1	SECD04	03/19/12 12:35	1
SSC1061633 *	43164	SECD0403/19/12-1235-E4031912	ASEC.D	E4031912	1	SECD04	03/19/12 12:50	1
CCV1074115 *	45333	SECD0403/19/12-1235-E4031912	ACCV2.D	E4042712	1	SECD04	04/27/12 11:49	1
127811MB	127811MB	SECD0403/19/12-1235-E4031912	9229MB.D	E4042712	1	SECD04	04/27/12 19:19	1
127812LCS	127812LCS	SECD0403/19/12-1235-E4031912	9229LCS.D	E4042712	1	SECD04	04/27/12 19:34	1
IDW-SOIL-1	350581601	SECD0403/19/12-1235-E4031912	816-1.D	E4042712	1	SECD04	04/27/12 19:50	1
IDW-SOIL-1MS	127813MS	SECD0403/19/12-1235-E4031912	816-1MS.D	E4042712	1	SECD04	04/27/12 20:05	1
IDW-SOIL-1MSD	127814MSD	SECD0403/19/12-1235-E4031912	816-1MSD.D	E4042712	1	SECD04	04/27/12 20:20	1
CCV1074799 *	45333	SECD0403/19/12-1235-E4031912	ACCV3.D	E4042712	1	SECD04	04/27/12 21:50	1
EPAFMC-SD-16	350584312	SECD0403/19/12-1235-E4031912	843-12.D	E4042712	1	SECD04	04/27/12 22:51	1
CCV1074801 *	45333	SECD0403/19/12-1235-E4031912	ACCV4.D	E4042712	1	SECD04	04/27/12 23:21	1
CCV1074823 *	45865	SECD0403/19/12-1235-E4031912	ACCV1RB.D	E4043012	1	SECD04	04/30/12 09:34	1
EPAFMC-SD-08	350584304	SECD0403/19/12-1235-E4031912	843-4R.D	E4043012	1	SECD04	04/30/12 11:16	1
EPAFMC-SD-12	350584308	SECD0403/19/12-1235-E4031912	843-8R.D	E4043012	1	SECD04	04/30/12 11:31	1
CCV1074825 *	45333	SECD0403/19/12-1235-E4031912	ACCV2B.D	E4043012	1	SECD04	04/30/12 12:01	1

* Sample IDs for calibration items are system generated

cabadia

5/3/2012 10:43:39 AM

3505843

3080

Extraction Method	3550b
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Extraction Log 8082 Soil Ext

Start: 4/27/2012 10:00:00 AM

End: 4/30/2012 7:22:51 AM

Water Bath Temp: 47°C

Batch ID 9229

Thermometer ID: tbvA

Balance ID: P35923

Final

Batch ID: 9229

Lab ID	Cont	Client ID	Date Samp	Type	Odor	Color	Sed	Initial	Final	pH	Standards	Cleanups	Archive
350581601	4	IDW-SOIL-1	4/20/2012 2:20:00 PM	SAMPLE	none	brown	soil	33.29 G	10 mL		1mL 81/82wkg_surr: 45988 @ 1.0 ug/mL;	Sulfur:42250@04/27/2012 Sulfuric_Acid:42793 @04/27/2012	CHUM
350581701	1	PX-S05-SS01-0412	4/20/2012 10:30:00 AM	SAMPLE	none	brown	soil	33.98 G	10 mL		1mL 81/82wkg_surr: 45988 @ 1.0 ug/mL;	Sulfur:42250@04/27/2012 Sulfuric_Acid:42793 @04/27/2012	CHUM
350581702	1	PX-S05-SS02-0412	4/20/2012 10:55:00 AM	SAMPLE	none	brown	soil	33.37 G	10 mL		1mL 81/82wkg_surr: 45988 @ 1.0 ug/mL;	Sulfur:42250@04/27/2012 Sulfuric_Acid:42793 @04/27/2012	CHUM
350581703	1	PX-S05-SS03-0412	4/20/2012 11:07:00 AM	SAMPLE	none	black	soil	33.02 G	10 mL		1mL 81/82wkg_surr: 45988 @ 1.0 ug/mL;	Sulfur:42250@04/27/2012 Sulfuric_Acid:42793 @04/27/2012	CHUM
350583502	4	EPAFMC-SD-02	4/23/2012 1:45:00 PM	SAMPLE	none	brown	soil	33.03 G	10 mL		1mL 81/82wkg_surr: 45988 @ 1.0 ug/mL;	Sulfur:42250@04/27/2012 Sulfuric_Acid:42793 @04/27/2012 Sulfur:45034@04/27/2012	CHUM
350583504	4	EPAFMC-SD-04	4/23/2012 2:10:00 PM	SAMPLE	none	brown	soil	33.04 G	10 mL		1mL 81/82wkg_surr: 45988 @ 1.0 ug/mL;	Sulfur:42250@04/27/2012 Sulfuric_Acid:42793 @04/27/2012 Sulfur:45034@04/27/2012	CHUM
350584304	4	EPAFMC-SD-08	4/24/2012 11:37:00 AM	SAMPLE	none	brown	soil	33.33 G	10 mL		1mL 81/82wkg_surr: 45988 @ 1.0 ug/mL;	Sulfur:42250@04/27/2012 Sulfuric_Acid:42793 @04/27/2012 Sulfur:45034@04/27/2012	CHUM
350584308	4	EPAFMC-SD-12	4/24/2012 3:40:00 PM	SAMPLE	none	brown	soil	33.5 G	10 mL		1mL 81/82wkg_surr: 45988 @ 1.0 ug/mL;	Sulfur:42250@04/27/2012 Sulfuric_Acid:42793 @04/27/2012 Sulfur:45034@04/27/2012	CHUM
350584312	4	EPAFMC-SD-16	4/24/2012 3:45:00 PM	SAMPLE	none	brown	soil	33.03 G	10 mL		1mL 81/82wkg_surr: 45988 @ 1.0 ug/mL;	Sulfur:42250@04/27/2012 Sulfuric_Acid:42793 @04/27/2012	CHUM

3505843

3081


Lab ID	Cont	Client ID	Date Samp	Type	Odor	Color	Sed	Initial	Final	pH	Standards	Cleanups	Archive
127811MB		127811MB		MB	none	tan	sand	33.15 G	10 mL		1mL 81/82wkg_surr: 45988 @ 1.0 ug/mL;	Sulfur:42250@04/27/2012 Sulfuric_Acid:42793 @04/27/2012	CHUM
127812LCS		127812LCS		LCS	none	tan	sand	33.9 G	10 mL		1mL 8082wkg_spk: 45758 @ 10 ug/mL; 1mL 81/82wkg_surr: 45988 @ 1.0 ug/mL;	Sulfur:42250@04/27/2012 Sulfuric_Acid:42793 @04/27/2012	CHUM
127813MS		IDW-SOIL-1MS		MS	none	brown	soil	33.28 G	10 mL		1mL 8082wkg_spk: 45758 @ 10 ug/mL; 1mL 81/82wkg_surr: 45988 @ 1.0 ug/mL;	Sulfur:42250@04/27/2012 Sulfuric_Acid:42793 @04/27/2012	CHUM
127814MSD		IDW-SOIL-1MSD		MSD	none	brown	soil	33.36 G	10 mL		1mL 8082wkg_spk: 45758 @ 10 ug/mL; 1mL 81/82wkg_surr: 45988 @ 1.0 ug/mL;	Sulfur:42250@04/27/2012 Sulfuric_Acid:42793 @04/27/2012	CHUM


3505843

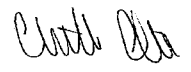
3082

Lab ID	Cont	Client ID	Date Samp	Type	Odor	Color	Sed	Initial	Final	pH	Standards	Cleanups	Archive
--------	------	-----------	-----------	------	------	-------	-----	---------	-------	----	-----------	----------	---------

Initial Solvent 45850							NaSO4 45942					Sonicator# 1a,1b,2	
Initial Solvent 45376							Sand 45944						
Final Solvent 45375							Copper 42250						
Filter Paper 44944							Acid 42973						


 Name: Tammy Reuter Title: Prep Tech 4/30/2012 7:22:51 AM
 Analyst Posted treuter Date

Signature: 
 Name: Duffie Young Title: Lab Technician 4/30/2012 7:45:48 AM
 Peer Reviewed dyoung Date

Signature: 
 Name: Christelle Abadia Title: Chemist 4/30/2012 1:02
 Analyst Reviewed cabadia Date

Comments:

Sample Comments

Lab ID	Client ID	Comments
127811MB	127811MB	
127812LCS	127812LCS	
127813MS	IDW-SOIL-1MS	
127814MSD	IDW-SOIL-1MSD	
350581601	IDW-SOIL-1	
350581701	PX-S05-SS01-0412	
350581702	PX-S05-SS02-0412	
350581703	PX-S05-SS03-0412	

Lab ID	Cont	Client ID	Date Samp	Type	Odor	Color	Sed	Initial	Final	pH	Standards	Cleanups	Archive
350583502		EPAFMC-SD-02											
350583504		EPAFMC-SD-04											
350584304		EPAFMC-SD-08											
350584308		EPAFMC-SD-12											
350584312		EPAFMC-SD-16											

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STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
43164	8082_sec_wkg			3/23/2012	5 ML	9/23/2011	cabadia
0.05 UG/ML: Decachlorobiphenyl, Tetrachloro-m-xylene 0.5 UG/ML: Aroclor-1016, Aroclor-1260 COMPOSED OF: 41047: 4750 UL 43163: 250 UL							
Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44123	8082_acal6_wkg			6/12/2012	5 ML	12/12/2011	NSUBAR
0.25 UG/ML: Decachlorobiphenyl, Tetrachloro-m-xylene 2.5 UG/ML: Aroclor-1016, Aroclor-1260 COMPOSED OF: 44100: 3750 UL 44122: 1250 UL							
Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44124	8082_acal5_wkg			6/12/2012	5 ML	12/12/2011	NSUBAR
0.2 UG/ML: Decachlorobiphenyl, Tetrachloro-m-xylene 2 UG/ML: Aroclor-1016, Aroclor-1260 COMPOSED OF: 44100: 4000 UL 44122: 1000 UL							
Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44125	8082_acal4_wkg			6/12/2012	5 ML	12/12/2011	NSUBAR
0.1 UG/ML: Decachlorobiphenyl, Tetrachloro-m-xylene 1 UG/ML: Aroclor-1016, Aroclor-1260 COMPOSED OF: 44100: 4500 UL 44122: 500 UL							

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STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44127	8082_acal2_wkg			6/12/2012	5 ML	12/12/2011	NSUBAR
0.01 UG/ML: Decachlorobiphenyl, Tetrachloro-m-xylene 0.1 UG/ML: Aroclor-1016, Aroclor-1260 COMPOSED OF: 44100: 4950 UL 44122: 50 UL							
Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44128	8082_acal1_wkg			6/12/2012	10 ML	12/12/2011	NSUBAR
0.003 UG/ML: Decachlorobiphenyl, Tetrachloro-m-xylene 0.03 UG/ML: Aroclor-1016, Aroclor-1260 COMPOSED OF: 44100: 9970 UL 44122: 30 UL							
Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44134	1232_cal3_wkg			6/12/2012	5 ML	12/12/2011	NSUBAR
0.5 UG/ML: Aroclor-1232 COMPOSED OF: 44100: 4750 UL 44132: 250 UL							
Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44135	2154_cal3_wkg			6/12/2012	5 ML	12/12/2011	NSUBAR
0.5 UG/ML: Aroclor-1221, Aroclor-1254 COMPOSED OF: 44100: 4750 UL 44130: 250 UL							
Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44340	8082_acal3_wkg			6/28/2012	10 ML	12/28/2011	NSUBAR
0.5 UG/ML: Aroclor-1248							

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STANDARDS LOG

COMPOSED OF:

44100: 9500 UL 44338: 500 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44821	8082_acal3_wkg			7/26/2012	10 ML	1/30/2012	cabadia

0.5 UG/ML: Aroclor-1242

COMPOSED OF:

42191: 9500 UL 44777: 500 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45333	8082_acal3_wkg			6/12/2012	10 ML	3/12/2012	cabadia

0.05 UG/ML: Decachlorobiphenyl, Tetrachloro-m-xylene

0.5 UG/ML: Aroclor-1016, Aroclor-1260

COMPOSED OF:

43848: 9500 UL 44122: 500 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45758	8082wkg_spk			10/9/2012	50 ML	4/9/2012	rortiz

10 UG/ML: Aroclor-1016, Aroclor-1260

COMPOSED OF:

44378: 49.5 ML 44939: 500 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45865	8082_acal3_wkg			6/12/2012	10 ML	4/17/2012	cabadia

0.05 UG/ML: Decachlorobiphenyl, Tetrachloro-m-xylene

0.5 UG/ML: Aroclor-1016, Aroclor-1260

COMPOSED OF:

43848: 9500 UL 44122: 500 UL

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STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45988	81/82wkg_surr			10/26/2012	100 ML	4/26/2012	rortiz
1 UG/ML: Decachlorobiphenyl, Tetrachloro-m-xylene							
COMPOSED OF:							
44378: 99.5 ML 45170: 0.5 ML							

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PEL Laboratories, Inc.

METHOD 8082

Data file : \\Svtqm2andm3\DD\chem\secd04.i\E4031912.b\1232CAL3.D
 Lab Smp Id: 44134 Client Smp ID: 1232CAL3
 Inj Date : 19-MAR-2012 10:19
 Operator : PEL Labs Inst ID: secd04.i
 Smp Info : 44134
 Misc Info :
 Comment :
 Method : \\Svtqm2andm3\DD\chem\secd04.i\E4031912.b\8082A.m
 Meth Date : 11-Apr-2012 13:58 cabadia Quant Type: ESTD
 Cal Date : 19-MAR-2012 10:49 Cal File: 1248CAL3.D
 Als bottle: 4 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1232.sub
 Target Version: 4.14

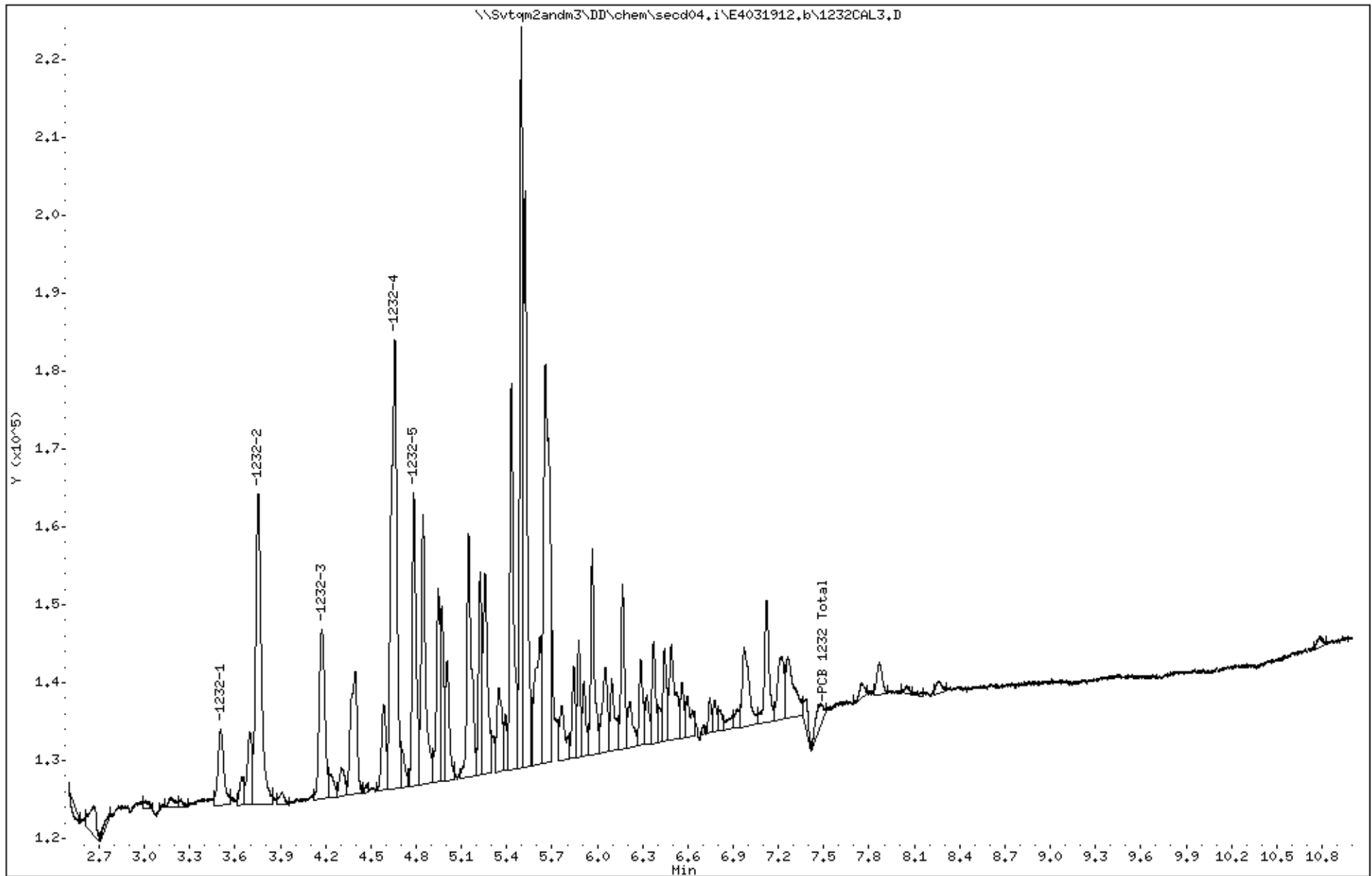
Concentration Formula: Amt * DF * (Vf/((Ws*(1-(M/100)))/1000)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	10.000	final vol.of extract
Ws	15.000	weight of sample extracted (g)
M	0.00000	% moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/ml)	ON-COL (ug/ml)
19 1232-1	3.504	3.504	0.000	26711	0.10000	0.10(M)
20 1232-2	3.753	3.753	0.000	105210	0.10000	0.10(M)
21 1232-3	4.175	4.175	0.000	57858	0.10000	0.10(M)
22 1232-4	4.658	4.658	0.000	153849	0.10000	0.10(M)
23 1232-5	4.783	4.783	0.000	69292	0.10000	0.10(M)
M 24 PCB 1232 Total				412920	0.50000	

QC Flag Legend

M - Compound response manually integrated.



PEL Laboratories, Inc.

METHOD 8082

Data file : \\Svtqm2andm3\DD\chem\secd04.i\E4031912.b\1242CAL3.D
 Lab Smp Id: 44821 Client Smp ID: 1242CAL3
 Inj Date : 19-MAR-2012 10:34
 Operator : PEL Labs Inst ID: secd04.i
 Smp Info : 44821
 Misc Info :
 Comment :
 Method : \\Svtqm2andm3\DD\chem\secd04.i\E4031912.b\8082A.m
 Meth Date : 11-Apr-2012 13:58 cabadia Quant Type: ESTD
 Cal Date : 19-MAR-2012 10:49 Cal File: 1248CAL3.D
 Als bottle: 5 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1242.sub
 Target Version: 4.14

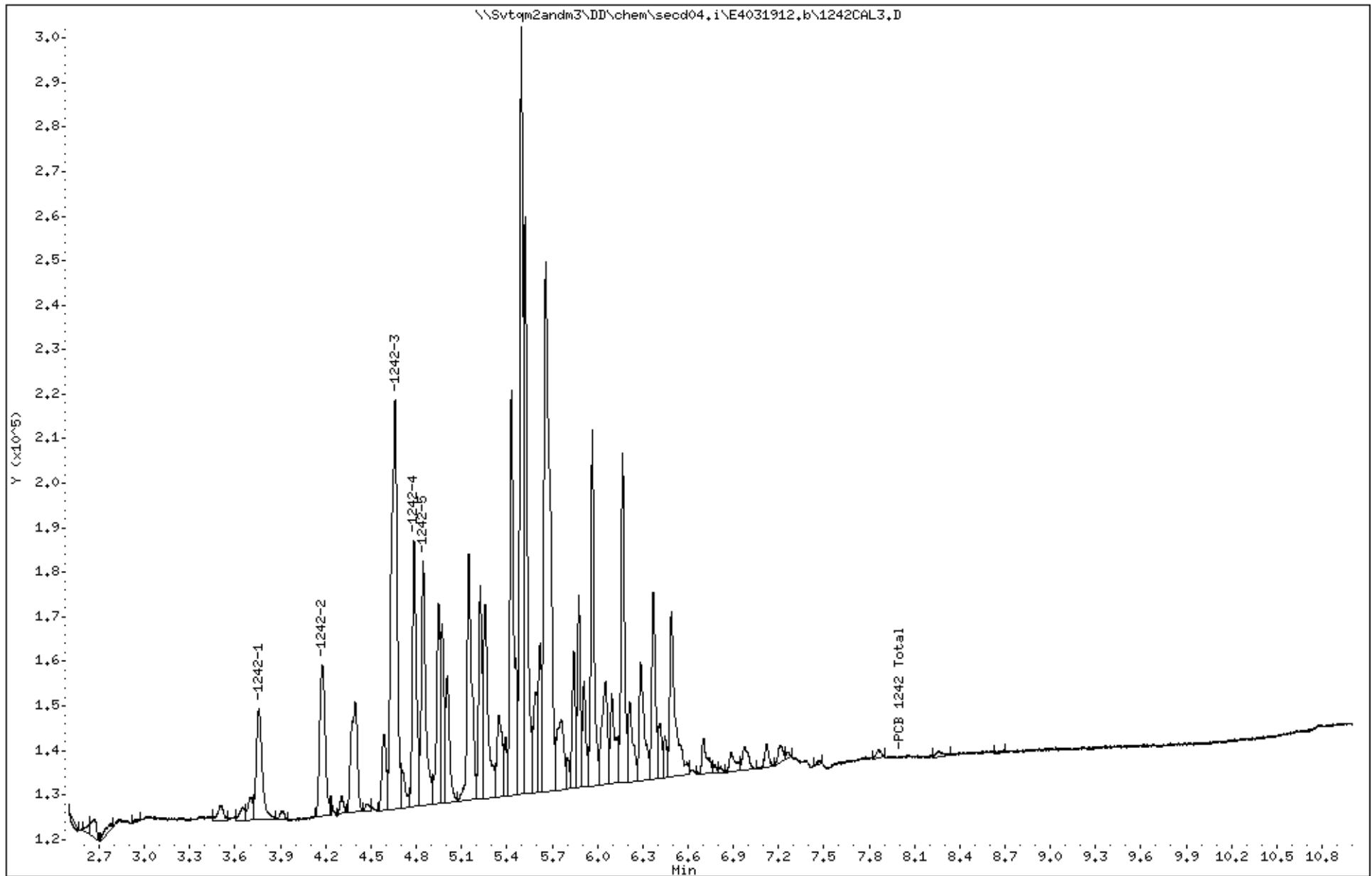
Concentration Formula: Amt * DF * (Vf/((Ws*(1-(M/100)))/1000)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	10.000	final vol.of extract
Ws	15.000	weight of sample extracted (g)
M	0.00000	% moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/ml)	ON-COL (ug/ml)
25 1242-1	3.757	3.757	0.000	68720	0.10000	0.10(M)
26 1242-2	4.176	4.176	0.000	85794	0.10000	0.10(M)
27 1242-3	4.660	4.660	0.000	247667	0.10000	0.10(M)
28 1242-4	4.785	4.785	0.000	111375	0.10000	0.10(M)
29 1242-5	4.845	4.845	0.000	111599	0.10000	0.10(M)
M 30 PCB 1242 Total				625155	0.50000	

QC Flag Legend

M - Compound response manually integrated.



PEL Laboratories, Inc.

METHOD 8082

Data file : \\Svtqm2andm3\DD\chem\secd04.i\E4031912.b\1248CAL3.D
 Lab Smp Id: 44340 Client Smp ID: 1248CAL3
 Inj Date : 19-MAR-2012 10:49
 Operator : PEL Labs Inst ID: secd04.i
 Smp Info : 44340
 Misc Info :
 Comment :
 Method : \\Svtqm2andm3\DD\chem\secd04.i\E4031912.b\8082A.m
 Meth Date : 11-Apr-2012 13:58 cabadia Quant Type: ESTD
 Cal Date : 19-MAR-2012 10:49 Cal File: 1248CAL3.D
 Als bottle: 6 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1248.sub
 Target Version: 4.14

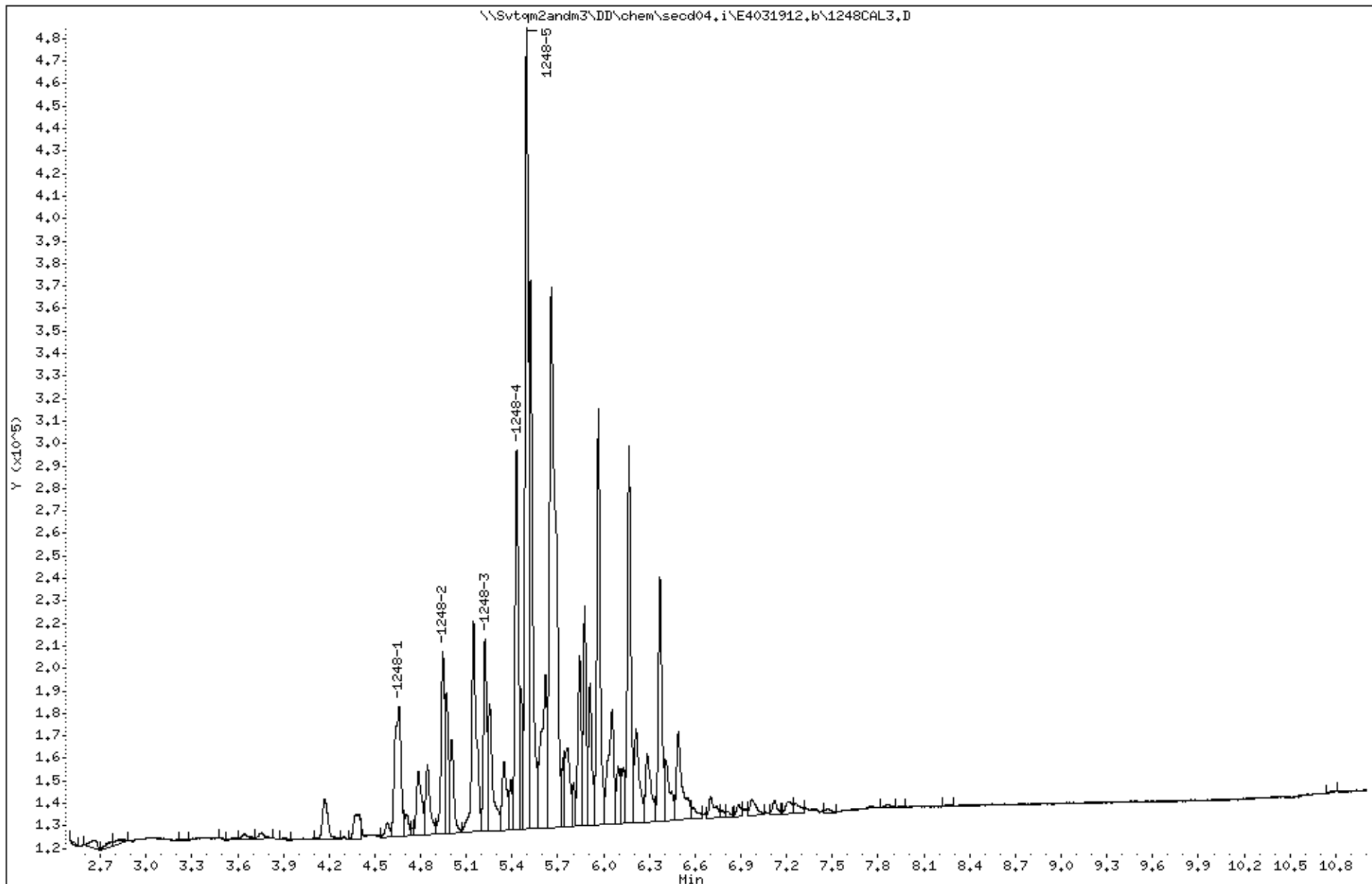
Concentration Formula: Amt * DF * (Vf/((Ws*(1-(M/100)))/1000)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	10.000	final vol.of extract
Ws	15.000	weight of sample extracted (g)
M	0.00000	% moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/ml)	ON-COL (ug/ml)
31 1248-1	4.658	4.658	0.000	166044	0.10000	0.10(M)
32 1248-2	4.945	4.945	0.000	132574	0.10000	0.10(M)
33 1248-3	5.222	5.222	0.000	126135	0.10000	0.10(M)
34 1248-4	5.429	5.429	0.000	259120	0.10000	0.10(M)
35 1248-5	5.494	5.494	0.000	506036	0.10000	0.10(M)
M 36 PCB 1248 Total				1189909	0.50000	

QC Flag Legend

M - Compound response manually integrated.



PEL Laboratories, Inc.

METHOD 8082

Data file : \\Svtqm2andm3\DD\chem\secd04.i\E4031912.b\2154CAL3.D
 Lab Smp Id: 44135 Client Smp ID: 2154CAL3
 Inj Date : 19-MAR-2012 11:04
 Operator : PEL Labs Inst ID: secd04.i
 Smp Info : 44135
 Misc Info :
 Comment :
 Method : \\Svtqm2andm3\DD\chem\secd04.i\E4031912.b\8082A.m
 Meth Date : 11-Apr-2012 13:58 cabadia Quant Type: ESTD
 Cal Date : 19-MAR-2012 11:04 Cal File: 2154CAL3.D
 Als bottle: 7 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 2154.sub
 Target Version: 4.14

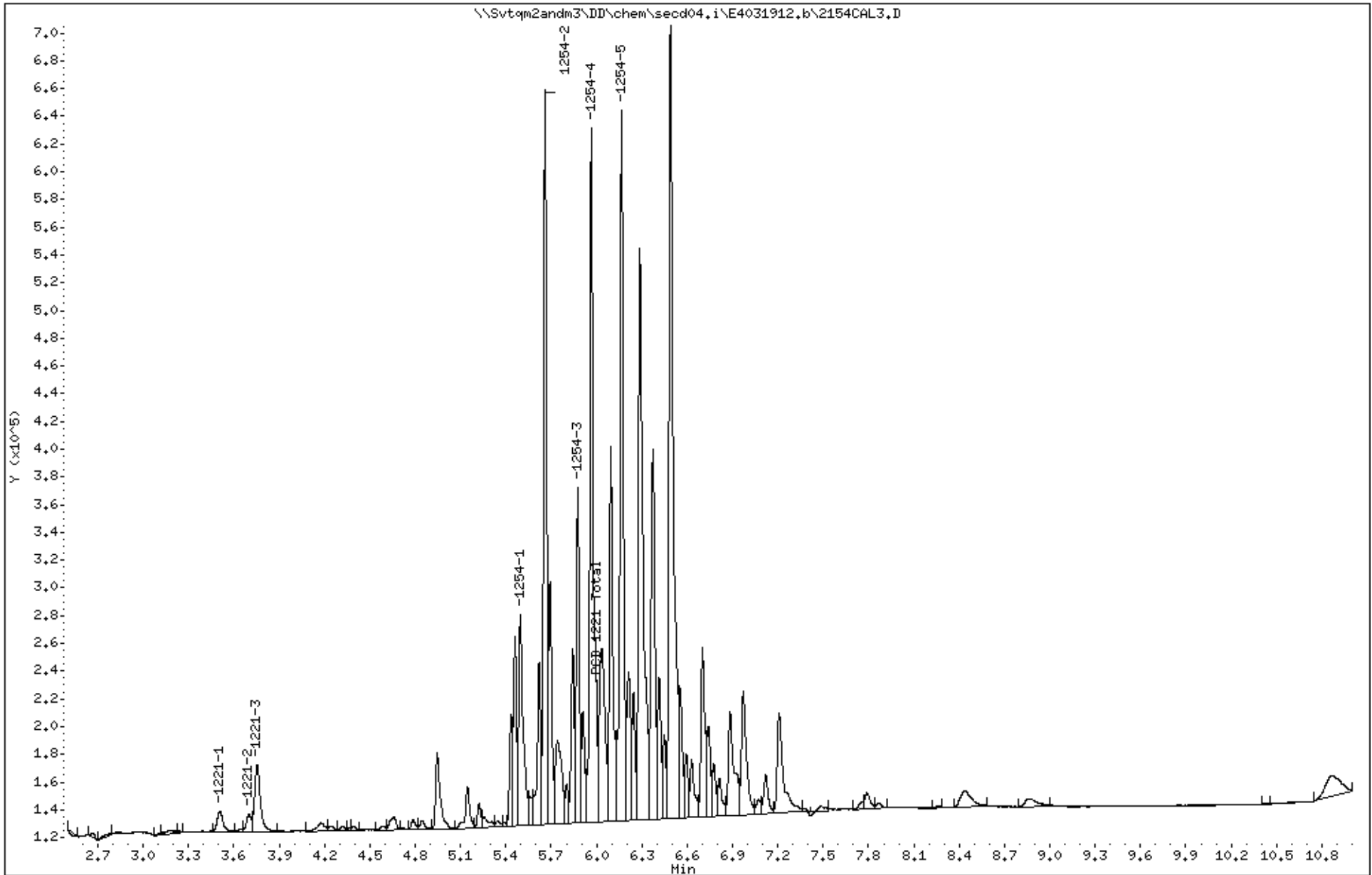
Concentration Formula: Amt * DF * (Vf/((Ws*(1-(M/100)))/1000)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	10.000	final vol.of extract
Ws	15.000	weight of sample extracted (g)
M	0.00000	% moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/ml)	ON-COL (ug/ml)
13 1221-1	3.506	3.506	0.000	40986	0.17000	0.17(M)
14 1221-2	3.699	3.699	0.000	27037	0.17000	0.17(M)
15 1221-3	3.754	3.754	0.000	132204	0.17000	0.17(M)
M 18 PCB 1221 Total				200227	0.50000	0.51
37 1254-1	5.494	5.494	0.000	314022	0.10000	0.10(M)
38 1254-2	5.659	5.659	0.000	748022	0.10000	0.10(M)
39 1254-3	5.875	5.875	0.000	335366	0.10000	0.10(M)
40 1254-4	5.965	5.965	0.000	851159	0.10000	0.10(M)
41 1254-5	6.165	6.165	0.000	818503	0.10000	0.10(M)
M 42 PCB 1254 Total				3067072	0.50000	0.50

QC Flag Legend

M - Compound response manually integrated.



PEL Laboratories, Inc.

METHOD 8082

Data file : \\Svtqm2andm3\DD\chem\secd04.i\E4031912.b\ACAL1.D
 Lab Smp Id: 44128 Client Smp ID: ACAL1
 Inj Date : 19-MAR-2012 11:19
 Operator : PEL Labs Inst ID: secd04.i
 Smp Info : 44128
 Misc Info :
 Comment :
 Method : \\Svtqm2andm3\DD\chem\secd04.i\E4031912.b\8082A.m
 Meth Date : 11-Apr-2012 13:58 cabadia Quant Type: ESTD
 Cal Date : 19-MAR-2012 12:35 Cal File: ACAL6.D
 Als bottle: 8 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10161260.sub
 Target Version: 4.14
 Processing Host: WCHEM1

Concentration Formula: Amt * DF * (1/(Vo/1000)*Vf) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	10.000	final vol of sample
Cpnd Variable		Local Compound Variable

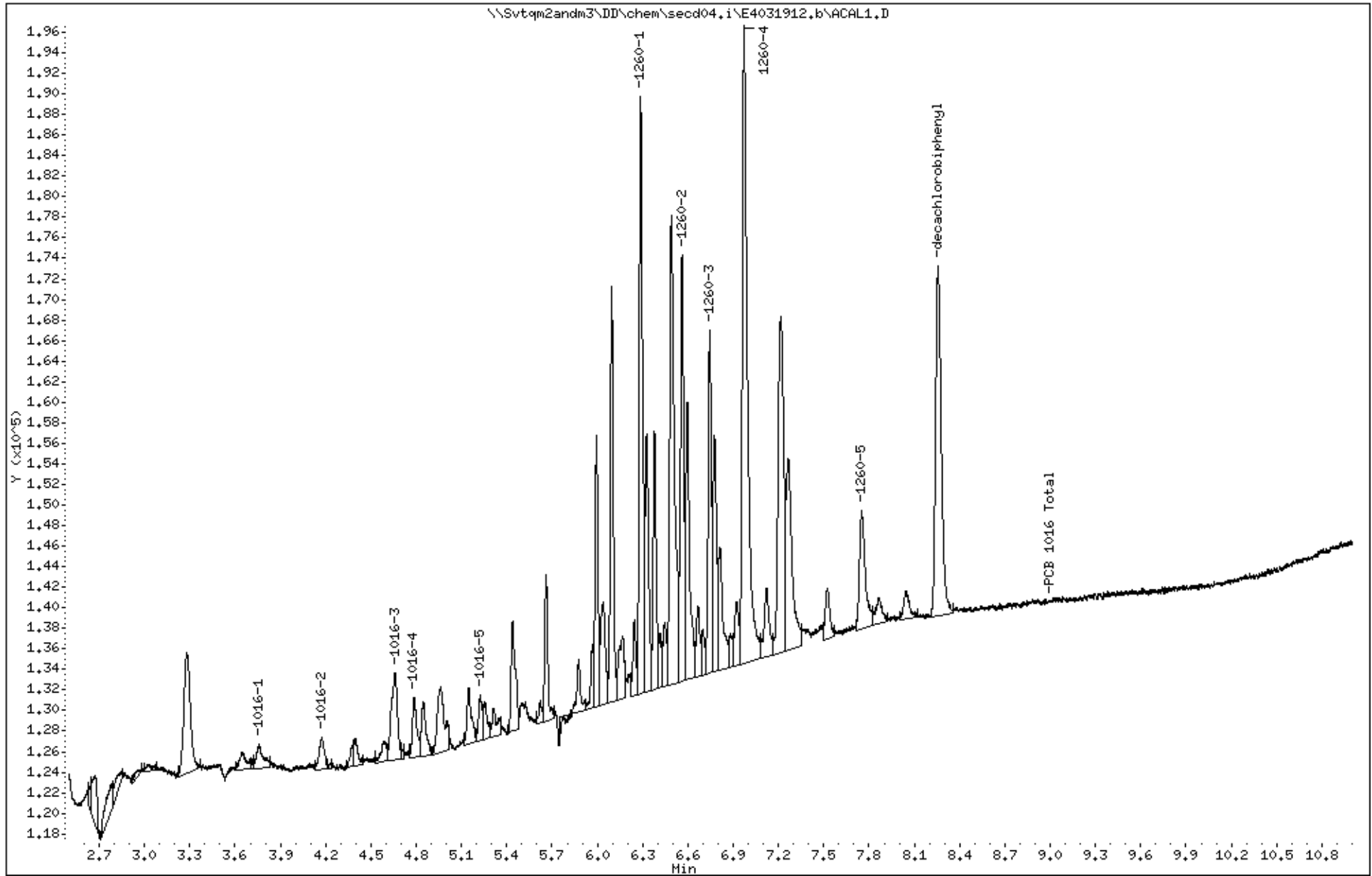
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/ml)	ON-COL (ug/ml)
1 1016-1	3.759	3.759	0.000	7345	0.00600	0.0072(M)
2 1016-2	4.173	4.177	-0.004	7528	0.00600	0.0062(M)
3 1016-3	4.659	4.659	0.000	23645	0.00600	0.0066(M)
4 1016-4	4.785	4.786	-0.001	12112	0.00600	0.0072(M)
5 1016-5	5.225	5.223	0.002	6868	0.00600	0.0070(M)
M 6 PCB 1016 Total				57498	0.03000	0.034
7 1260-1	6.286	6.287	-0.001	90537	0.00600	0.0062(M)
8 1260-2	6.561	6.562	-0.001	63195	0.00600	0.0065(M)
9 1260-3	6.744	6.745	-0.001	49426	0.00600	0.0064(M)
10 1260-4	6.972	6.972	0.000	147095	0.00600	0.0063(M)
11 1260-5	7.750	7.752	-0.002	31174	0.00600	0.0064(M)
M 12 PCB 1260 Total				381427	0.03000	0.032
\$ 45 decachlorobiphenyl	8.257	8.257	0.000	90089	0.00300	0.0034

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Svtqm2andm3\DD\chem\secd04.i\E4031912,b\ACAL1.D
Date : 19-MAR-2012 11:19
Client ID: ACAL1
Sample Info: 44128
Volume Injected (uL): 5.0
Column phase: STX-CLP1

Instrument: secd04.i
Operator: PEL Labs
Column diameter: 0.32



PEL Laboratories, Inc.

METHOD 8082

Data file : \\Svtqm2andm3\DD\chem\secd04.i\E4031912.b\ACAL2.D
 Lab Smp Id: 44127 Client Smp ID: ACAL2
 Inj Date : 19-MAR-2012 11:34
 Operator : PEL Labs Inst ID: secd04.i
 Smp Info : 44127
 Misc Info :
 Comment :
 Method : \\Svtqm2andm3\DD\chem\secd04.i\E4031912.b\8082A.m
 Meth Date : 11-Apr-2012 13:58 cabadia Quant Type: ESTD
 Cal Date : 19-MAR-2012 12:35 Cal File: ACAL6.D
 Als bottle: 9 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10161260.sub
 Target Version: 4.14
 Processing Host: WCHEM1

Concentration Formula: Amt * DF * (1/(Vo/1000)*Vf) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	10.000	final vol. of extract
Cpnd Variable		Local Compound Variable

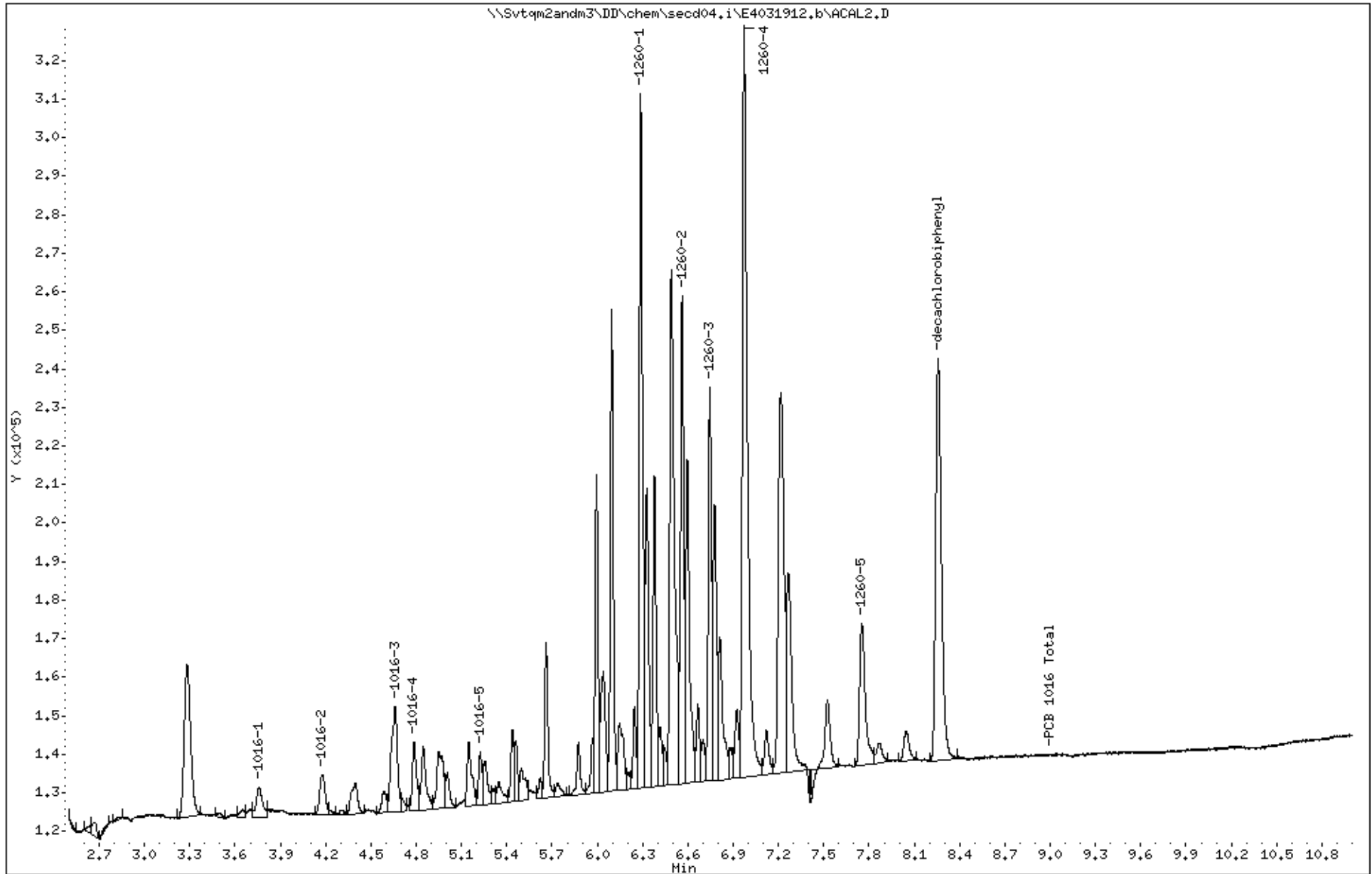
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/ml)	ON-COL (ug/ml)
1 1016-1	3.758	3.759	-0.001	23334	0.02000	0.022(M)
2 1016-2	4.178	4.177	0.001	26965	0.02000	0.022(M)
3 1016-3	4.662	4.659	0.003	76889	0.02000	0.021(M)
4 1016-4	4.784	4.786	-0.002	35534	0.02000	0.021(M)
5 1016-5	5.223	5.223	0.000	20978	0.02000	0.021(M)
M 6 PCB 1016 Total				183700	0.10000	0.11
7 1260-1	6.286	6.287	-0.001	279893	0.02000	0.019(M)
8 1260-2	6.561	6.562	-0.001	188945	0.02000	0.019(M)
9 1260-3	6.744	6.745	-0.001	153197	0.02000	0.020(M)
10 1260-4	6.972	6.972	0.000	448574	0.02000	0.019(M)
11 1260-5	7.753	7.752	0.001	96764	0.02000	0.020(M)
M 12 PCB 1260 Total				1167373	0.10000	0.097
\$ 45 decachlorobiphenyl	8.257	8.257	0.000	279134	0.01000	0.010

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Svtqm2andm3\DD\chem\secd04.i\E4031912,b\ACAL2.D
Date : 19-MAR-2012 11:34
Client ID: ACAL2
Sample Info: 44127
Volume Injected (uL): 5.0
Column phase: STX-CLP1

Instrument: secd04.i
Operator: PEL Labs
Column diameter: 0.32



PEL Laboratories, Inc.

METHOD 8082

Data file : \\Svtqm2andm3\DD\chem\secd04.i\E4031912.b\ACAL3.D
 Lab Smp Id: 45333 Client Smp ID: ACAL3
 Inj Date : 19-MAR-2012 11:49
 Operator : PEL Labs Inst ID: secd04.i
 Smp Info : 45333
 Misc Info :
 Comment :
 Method : \\Svtqm2andm3\DD\chem\secd04.i\E4031912.b\8082A.m
 Meth Date : 11-Apr-2012 13:58 cabadia Quant Type: ESTD
 Cal Date : 19-MAR-2012 12:35 Cal File: ACAL6.D
 Als bottle: 10 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10161260.sub
 Target Version: 4.14
 Processing Host: WCHEM1

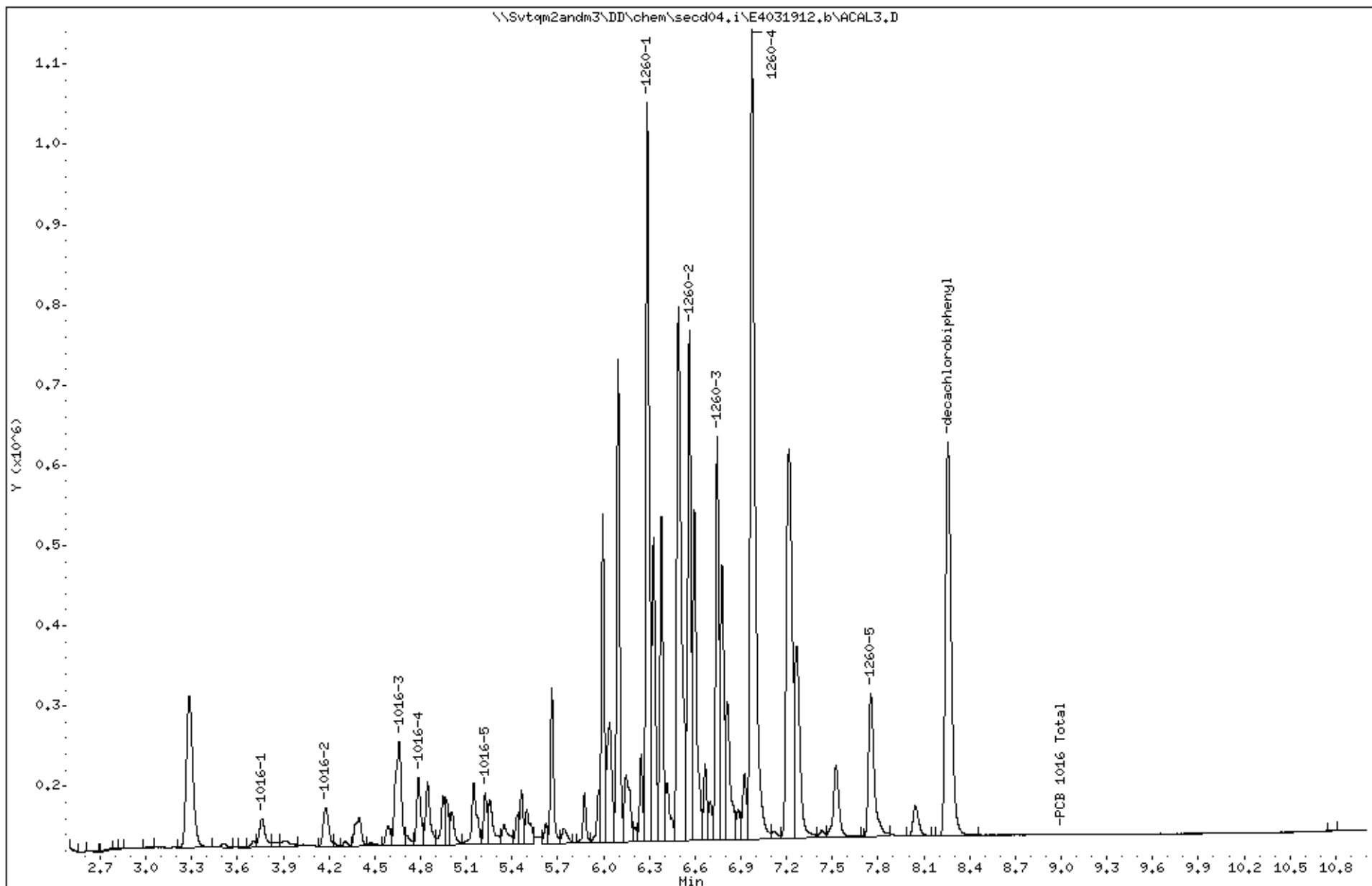
Concentration Formula: Amt * DF * (1/(Vo/1000)*Vf) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	10.000	final vol. of extract
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/ml)	ON-COL (ug/ml)
1 1016-1	3.759	3.759	0.000	98716	0.10000	0.091(M)
2 1016-2	4.178	4.177	0.001	120511	0.10000	0.10(M)
3 1016-3	4.660	4.659	0.001	353355	0.10000	0.098(M)
4 1016-4	4.786	4.786	0.000	162728	0.10000	0.097(M)
5 1016-5	5.224	5.223	0.001	93970	0.10000	0.096(M)
M 6 PCB 1016 Total				829280	0.50000	0.48
7 1260-1	6.286	6.287	-0.001	1410297	0.10000	0.096(M)
8 1260-2	6.562	6.562	0.000	920169	0.10000	0.095(M)
9 1260-3	6.745	6.745	0.000	738972	0.10000	0.095(M)
10 1260-4	6.972	6.972	0.000	2221022	0.10000	0.095(M)
11 1260-5	7.752	7.752	0.000	469809	0.10000	0.097(M)
M 12 PCB 1260 Total				5760269	0.50000	0.48
\$ 45 decachlorobiphenyl	8.258	8.257	0.001	1298794	0.05000	0.048

QC Flag Legend

M - Compound response manually integrated.



PEL Laboratories, Inc.

METHOD 8082

Data file : \\Svtqm2andm3\DD\chem\secd04.i\E4031912.b\ACAL4.D
 Lab Smp Id: 44125 Client Smp ID: ACAL4
 Inj Date : 19-MAR-2012 12:05
 Operator : PEL Labs Inst ID: secd04.i
 Smp Info : 44125
 Misc Info :
 Comment :
 Method : \\Svtqm2andm3\DD\chem\secd04.i\E4031912.b\8082A.m
 Meth Date : 11-Apr-2012 13:58 cabadia Quant Type: ESTD
 Cal Date : 19-MAR-2012 12:35 Cal File: ACAL6.D
 Als bottle: 11 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10161260.sub
 Target Version: 4.14
 Processing Host: WCHEM1

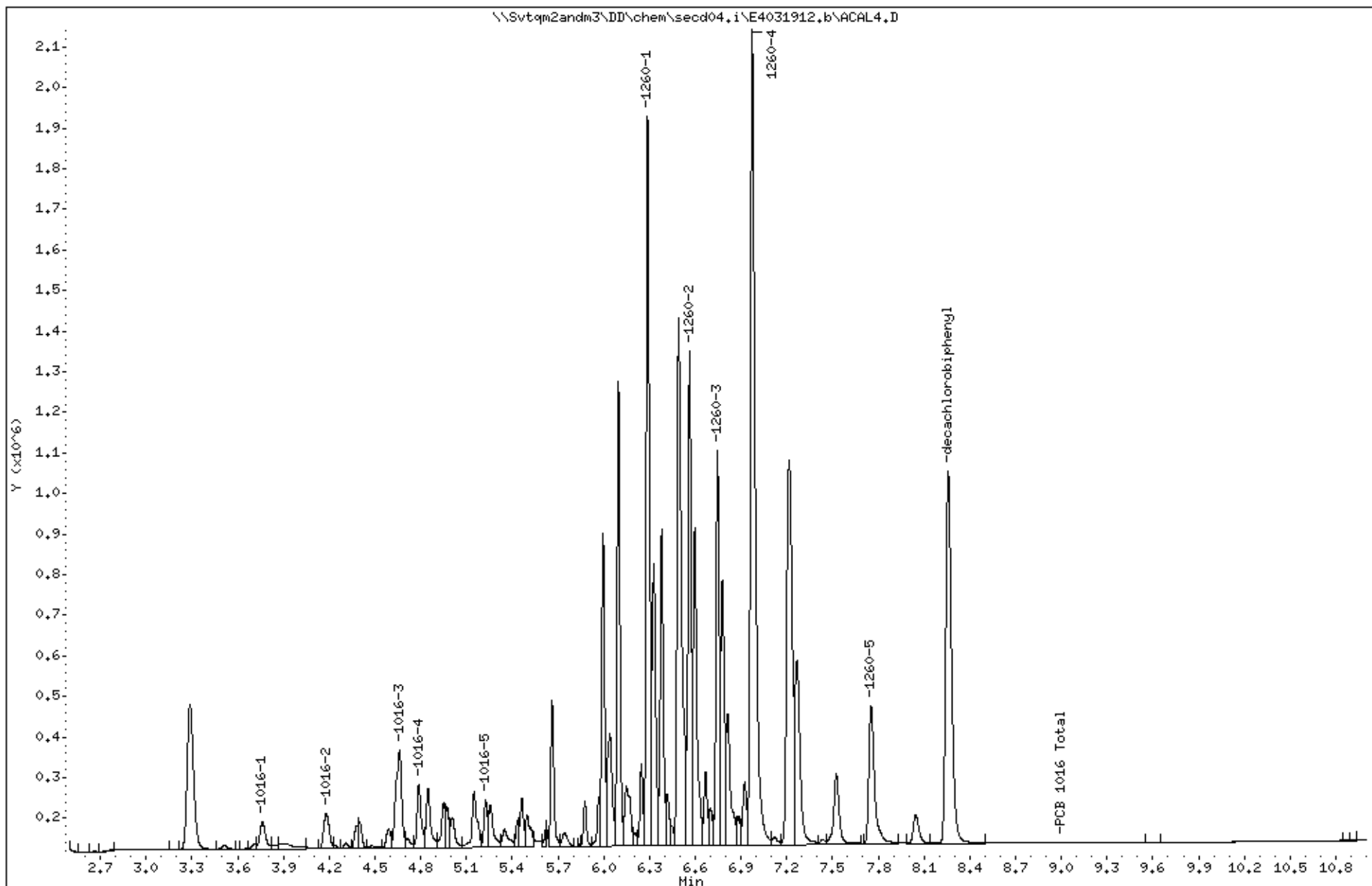
Concentration Formula: Amt * DF * (1/(Vo/1000)*Vf) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	10.000	final vol. of extract
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/ml)	ON-COL (ug/ml)
1 1016-1	3.762	3.759	0.003	182024	0.20000	0.17(M)
2 1016-2	4.180	4.177	0.003	221829	0.20000	0.18(M)
3 1016-3	4.661	4.659	0.002	651992	0.20000	0.18(M)
4 1016-4	4.787	4.786	0.001	295773	0.20000	0.18(M)
5 1016-5	5.225	5.223	0.002	174198	0.20000	0.18(M)
M 6 PCB 1016 Total				1525816	1.00000	0.89
7 1260-1	6.287	6.287	0.000	2696761	0.20000	0.18(M)
8 1260-2	6.563	6.562	0.001	1762861	0.20000	0.18(M)
9 1260-3	6.745	6.745	0.000	1429616	0.20000	0.18(M)
10 1260-4	6.973	6.972	0.001	4291774	0.20000	0.18(M)
11 1260-5	7.752	7.752	0.000	908404	0.20000	0.19(M)
M 12 PCB 1260 Total				11089416	1.00000	0.92
\$ 45 decachlorobiphenyl	8.259	8.257	0.002	2446203	0.10000	0.091(M)

QC Flag Legend

M - Compound response manually integrated.



PEL Laboratories, Inc.

METHOD 8082

Data file : \\Svtqm2andm3\DD\chem\secd04.i\E4031912.b\ACAL5.D
 Lab Smp Id: 44124 Client Smp ID: ACAL5
 Inj Date : 19-MAR-2012 12:20
 Operator : PEL Labs Inst ID: secd04.i
 Smp Info : 44124
 Misc Info :
 Comment :
 Method : \\Svtqm2andm3\DD\chem\secd04.i\E4031912.b\8082A.m
 Meth Date : 11-Apr-2012 13:58 cabadia Quant Type: ESTD
 Cal Date : 19-MAR-2012 12:35 Cal File: ACAL6.D
 Als bottle: 12 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10161260.sub
 Target Version: 4.14
 Processing Host: WCHEM1

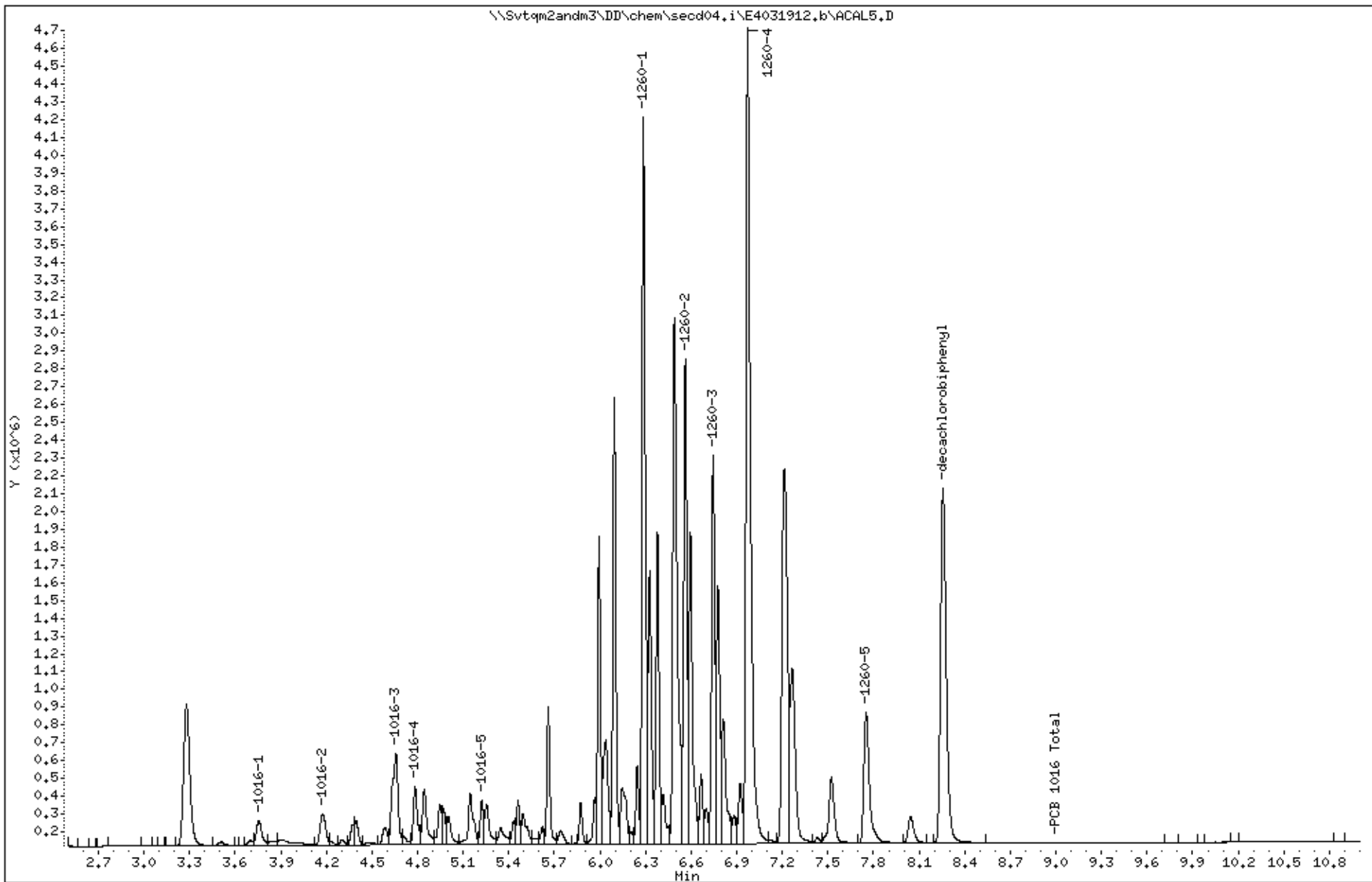
Concentration Formula: Amt * DF * (1/(Vo/1000)*Vf) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	10.000	final vol. of extract
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/ml)	ON-COL (ug/ml)
1 1016-1	3.754	3.759	-0.005	363074	0.40000	0.34(M)
2 1016-2	4.174	4.177	-0.003	452543	0.40000	0.38(M)
3 1016-3	4.656	4.659	-0.003	1355645	0.40000	0.38(M)
4 1016-4	4.782	4.786	-0.004	614892	0.40000	0.37(M)
5 1016-5	5.221	5.223	-0.002	366412	0.40000	0.38(M)
M 6 PCB 1016 Total				3152566	2.00000	1.8
7 1260-1	6.286	6.287	-0.001	6009115	0.40000	0.41(M)
8 1260-2	6.561	6.562	-0.001	3903965	0.40000	0.40(M)
9 1260-3	6.744	6.745	-0.001	3115040	0.40000	0.40(M)
10 1260-4	6.971	6.972	-0.001	9602692	0.40000	0.41(M)
11 1260-5	7.751	7.752	-0.001	1918378	0.40000	0.40(M)
M 12 PCB 1260 Total				24549190	2.00000	2.0
\$ 45 decachlorobiphenyl	8.256	8.257	-0.001	5173388	0.20000	0.19

QC Flag Legend

M - Compound response manually integrated.



PEL Laboratories, Inc.

METHOD 8082

Data file : \\Svtqm2andm3\DD\chem\secd04.i\E4031912.b\ACAL6.D
 Lab Smp Id: 44123 Client Smp ID: ACAL6
 Inj Date : 19-MAR-2012 12:35
 Operator : PEL Labs Inst ID: secd04.i
 Smp Info : 44123
 Misc Info :
 Comment :
 Method : \\Svtqm2andm3\DD\chem\secd04.i\E4031912.b\8082A.m
 Meth Date : 11-Apr-2012 13:58 cabadia Quant Type: ESTD
 Cal Date : 19-MAR-2012 12:35 Cal File: ACAL6.D
 Als bottle: 13 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10161260.sub
 Target Version: 4.14
 Processing Host: WCHEM1

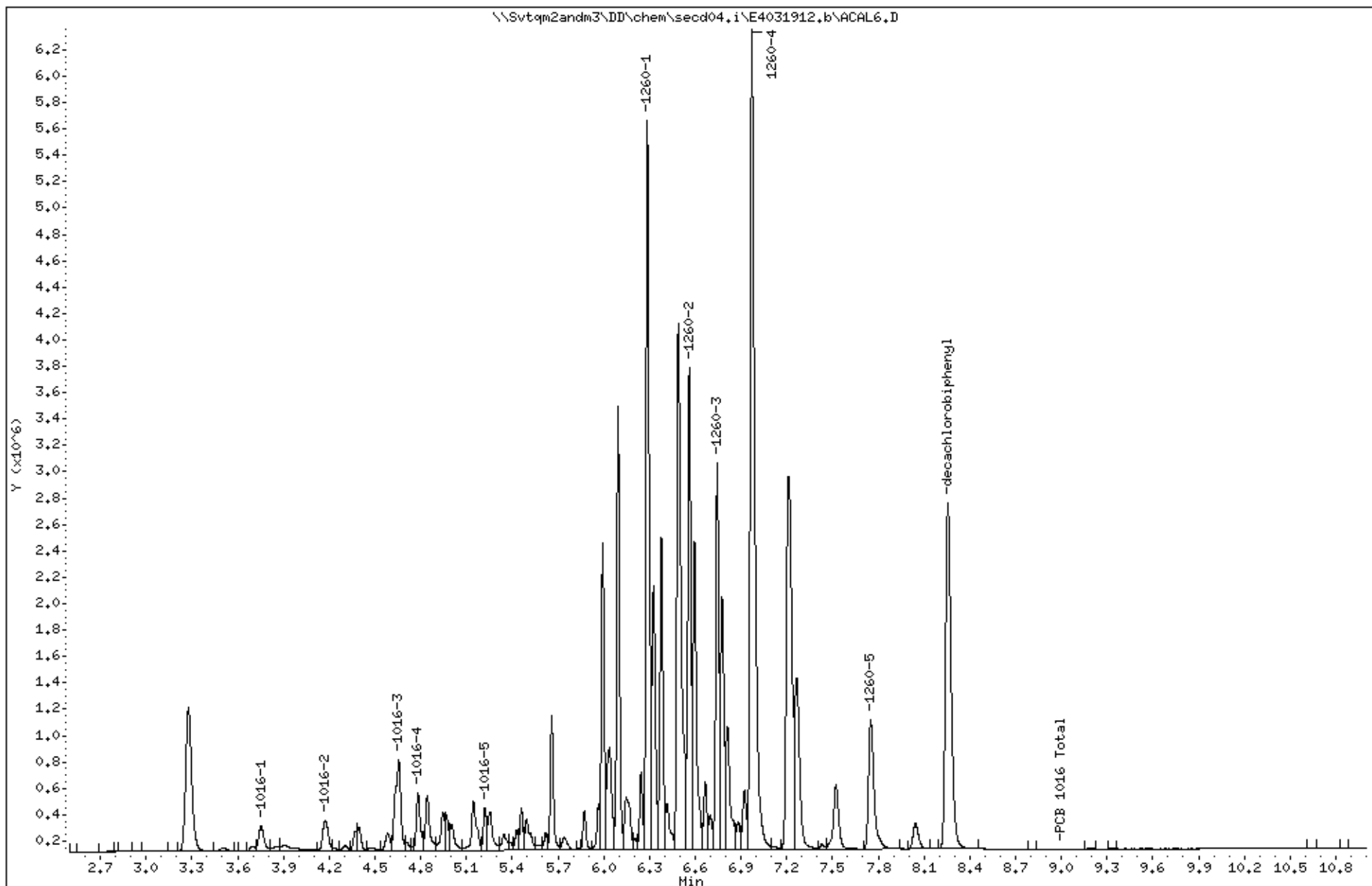
Concentration Formula: Amt * DF * (1/(Vo/1000)*Vf) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	10.000	final vol. of extract
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/ml)	ON-COL (ug/ml)
1 1016-1	3.754	3.759	-0.005	478871	0.50000	0.44(M)
2 1016-2	4.173	4.177	-0.004	590189	0.50000	0.49(M)
3 1016-3	4.656	4.659	-0.003	1779693	0.50000	0.50(M)
4 1016-4	4.782	4.786	-0.004	798860	0.50000	0.48(M)
5 1016-5	5.221	5.223	-0.002	470552	0.50000	0.48(M)
M 6 PCB 1016 Total				4118165	2.50000	2.4
7 1260-1	6.286	6.287	-0.001	8089898	0.50000	0.55(M)
8 1260-2	6.561	6.562	-0.001	5216749	0.50000	0.54(M)
9 1260-3	6.744	6.745	-0.001	4222024	0.50000	0.54(M)
10 1260-4	6.971	6.972	-0.001	12821730	0.50000	0.55(M)
11 1260-5	7.751	7.752	-0.001	2468981	0.50000	0.51(M)
M 12 PCB 1260 Total				32819382	2.50000	2.7
\$ 45 decachlorobiphenyl	8.256	8.257	-0.001	6758874	0.25000	0.25(M)

QC Flag Legend

M - Compound response manually integrated.



PEL Laboratories, Inc.

METHOD 8082

Data file : \\Svtqm2andm3\DD\chem\secd04.i\E4031912.b\ASEC.D
 Lab Smp Id: 43164 Client Smp ID: ASEC
 Inj Date : 19-MAR-2012 12:50
 Operator : PEL Labs Inst ID: secd04.i
 Smp Info : 43164
 Misc Info :
 Comment :
 Method : \\SVTQM2ANDM3\DD\chem\secd04.i\E4031912.b\8082A.m
 Meth Date : 11-Apr-2012 13:58 cabadia Quant Type: ESTD
 Cal Date : 19-MAR-2012 11:19 Cal File: ACAL1.D
 Als bottle: 14 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10161260.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * (1/(Vo/1000)*Vf) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	10.000	final vol. of extract
Cpnd Variable		Local Compound Variable

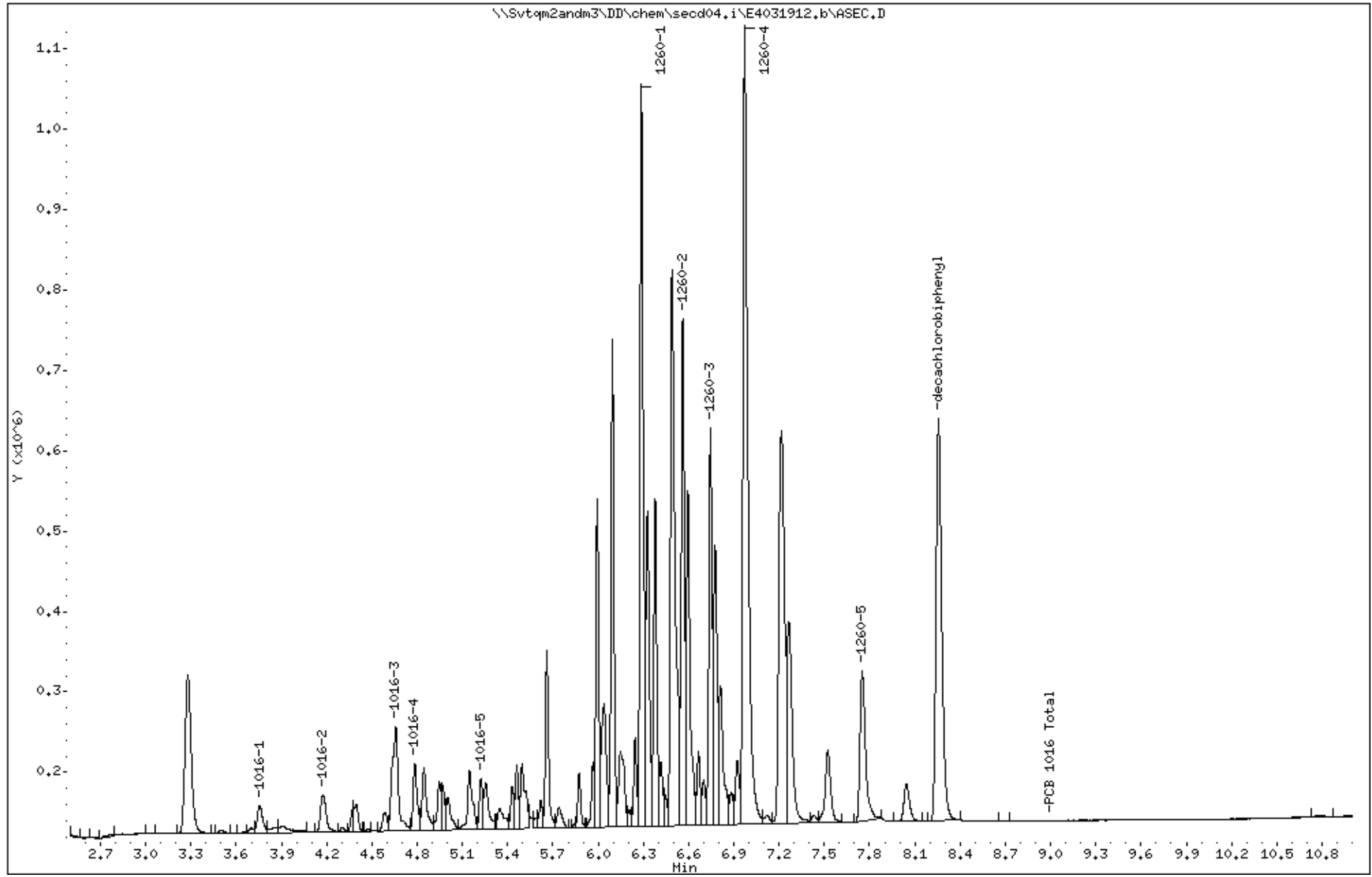
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/ml)	ON-COL (ug/ml)
1 1016-1	3.755	3.759	-0.004	86873	0.10000	0.085(M)
2 1016-2	4.174	4.177	-0.003	122188	0.10000	0.10(M)
3 1016-3	4.658	4.659	-0.001	369729	0.10000	0.10(M)
4 1016-4	4.783	4.786	-0.003	156985	0.10000	0.094(M)
5 1016-5	5.222	5.223	-0.001	92706	0.10000	0.095(M)
M 6 PCB 1016 Total				828481	0.50000	
7 1260-1	6.285	6.287	-0.002	1421981	0.10000	0.097(M)
8 1260-2	6.560	6.562	-0.002	924519	0.10000	0.095(M)
9 1260-3	6.744	6.745	-0.001	736530	0.10000	0.095(M)
10 1260-4	6.971	6.972	-0.001	2227267	0.10000	0.095(M)
11 1260-5	7.751	7.752	-0.001	477616	0.10000	0.099
M 12 PCB 1260 Total				5787913	0.50000	
\$ 45 decachlorobiphenyl	8.257	8.257	0.000	1331546	0.05000	0.050

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Svtqm2andm3\DD\chem\secd04.i\E4031912.b\ASEC.D
Date : 19-MAR-2012 12:50
Client ID: ASEC
Sample Info: 43164
Volume Injected (uL): 5.0
Column phase: STX-CLP1

Instrument: secd04.i
Operator: PEL Labs
Column diameter: 0.32



PEL Laboratories, Inc.

METHOD 8082

Data file : \\Svtqm2andm3\DD\chem\secd04.i\E4042712.b\ACCV2.D
 Lab Smp Id: 45333 Client Smp ID: ACCV2
 Inj Date : 27-APR-2012 11:49
 Operator : RO Inst ID: secd04.i
 Smp Info : 45333
 Misc Info :
 Comment :
 Method : \\Svtqm2andm3\DD\chem\secd04.i\E4042712.b\8082A.m
 Meth Date : 11-May-2012 14:05 cabadia Quant Type: ESTD
 Cal Date : 19-MAR-2012 11:19 Cal File: ACAL1.D
 Als bottle: 11 Continuing Calibration Sample
 Dil Factor: 1.00000 Compound Sublist: 10161260.sub
 Integrator: Falcon
 Target Version: 4.14
 Processing Host: WCHEM1

Concentration Formula: Amt * DF * (1/(Vo/1000)*Vf) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	10.000	final vol of sample
Cpnd Variable		Local Compound Variable

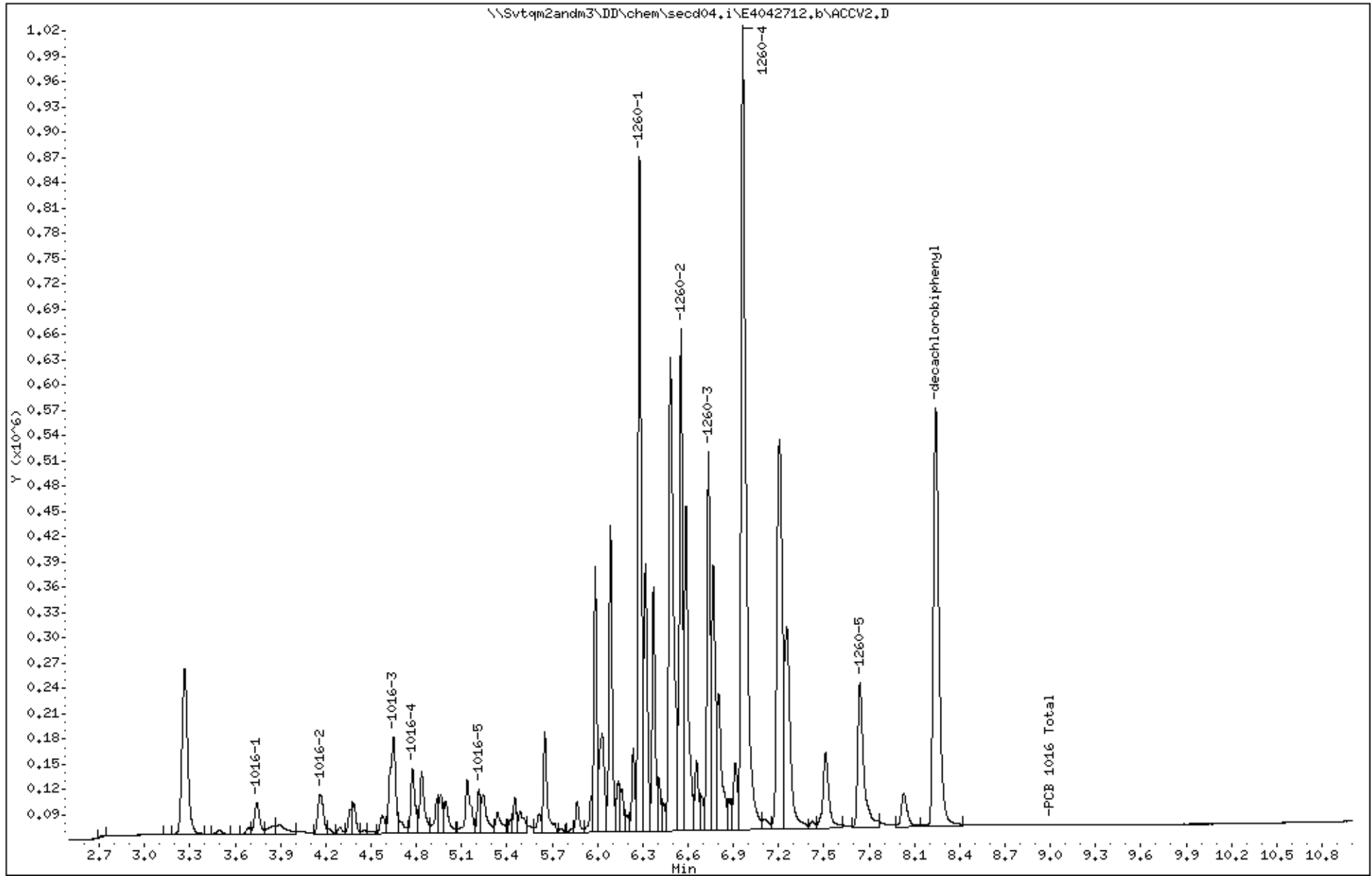
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/ml)	ON-COL (ug/ml)
1 1016-1	3.743	3.743	0.000	92455	0.10000	0.090(M)
2 1016-2	4.163	4.165	-0.002	120500	0.10000	0.10(M)
3 1016-3	4.649	4.649	0.000	306642	0.10000	0.085(M)
4 1016-4	4.775	4.774	0.001	153840	0.10000	0.092(M)
5 1016-5	5.214	5.214	0.000	77878	0.10000	0.080(M)
M 6 PCB 1016 Total				751315	0.50000	0.45
7 1260-1	6.278	6.278	0.000	1192390	0.10000	0.081(M)
8 1260-2	6.553	6.553	0.000	860033	0.10000	0.089(M)
9 1260-3	6.736	6.735	0.001	664452	0.10000	0.085(M)
10 1260-4	6.962	6.962	0.000	2155719	0.10000	0.092(M)
11 1260-5	7.738	7.739	-0.001	483672	0.10000	0.10(M)
M 12 PCB 1260 Total				5356266	0.50000	0.45
\$ 45 decachlorobiphenyl	8.241	8.240	0.001	1299848	0.05000	0.048(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Svtqm2andm3\DD\chem\secd04.i\E4042712,b\ACCV2.D
Date : 27-APR-2012 11:49
Client ID: ACCV2
Sample Info: 45333
Volume Injected (uL): 5.0
Column phase: STX-CLP1

Instrument: secd04.i
Operator: R0
Column diameter: 0.32



PEL Laboratories, Inc.

METHOD 8082

Data file : \\Svtqm2andm3\DD\chem\secd04.i\E4042712.b\9229MB.D
 Lab Smp Id: 127811MB Client Smp ID: 127811MB
 Inj Date : 27-APR-2012 19:19
 Operator : RO Inst ID: secd04.i
 Smp Info : a127811mb
 Misc Info :
 Comment :
 Method : \\Svtqm2andm3\DD\chem\secd04.i\E4042712.b\8082A.m
 Meth Date : 11-May-2012 14:05 cabadia Quant Type: ESTD
 Cal Date : 19-MAR-2012 11:19 Cal File: ACAL1.D
 Als bottle: 12 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: pall.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * (Vf/((Ws*(1-(M/100)))/1000)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	10.000	final vol.of extract
Ws	33.150	weight of sample extracted (g)
M	0.00000	% moisture
Cpnd Variable		Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
\$ 45 decachlorobiphenyl	8.261	8.240	0.021	2250953	0.08374	25.3

Data File: \\Svtqm2andm3\DD\chem\secd04.i\E4042712,b\9229MB.D

Date : 27-APR-2012 19:19

Client ID: 127811MB

Sample Info: a127811mb

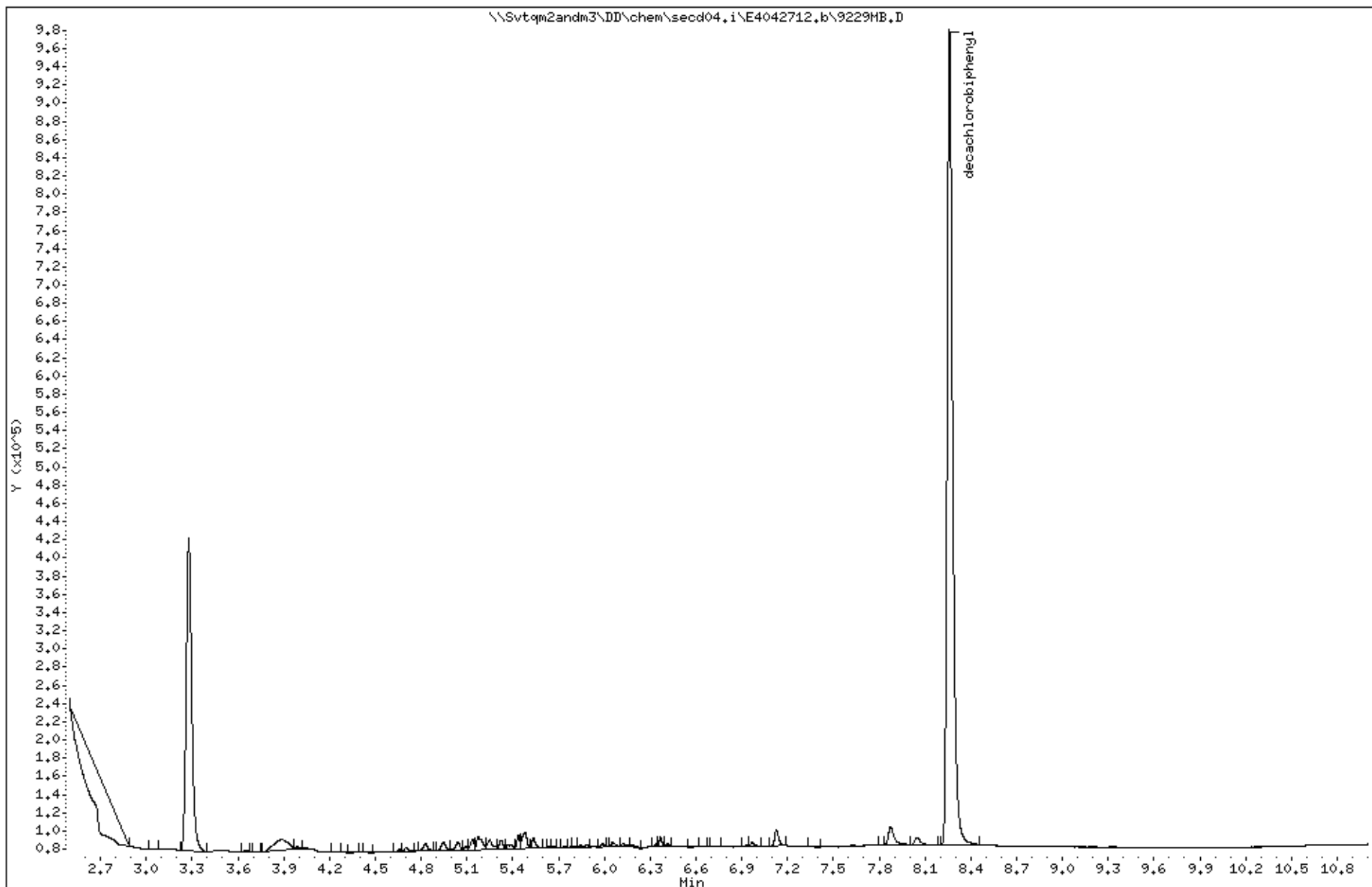
Instrument: secd04.i

Operator: R0

Column diameter: 0.32

Column phase: STX-CLP1

\\Svtqm2andm3\DD\chem\secd04.i\E4042712,b\9229MB.D



PEL Laboratories, Inc.

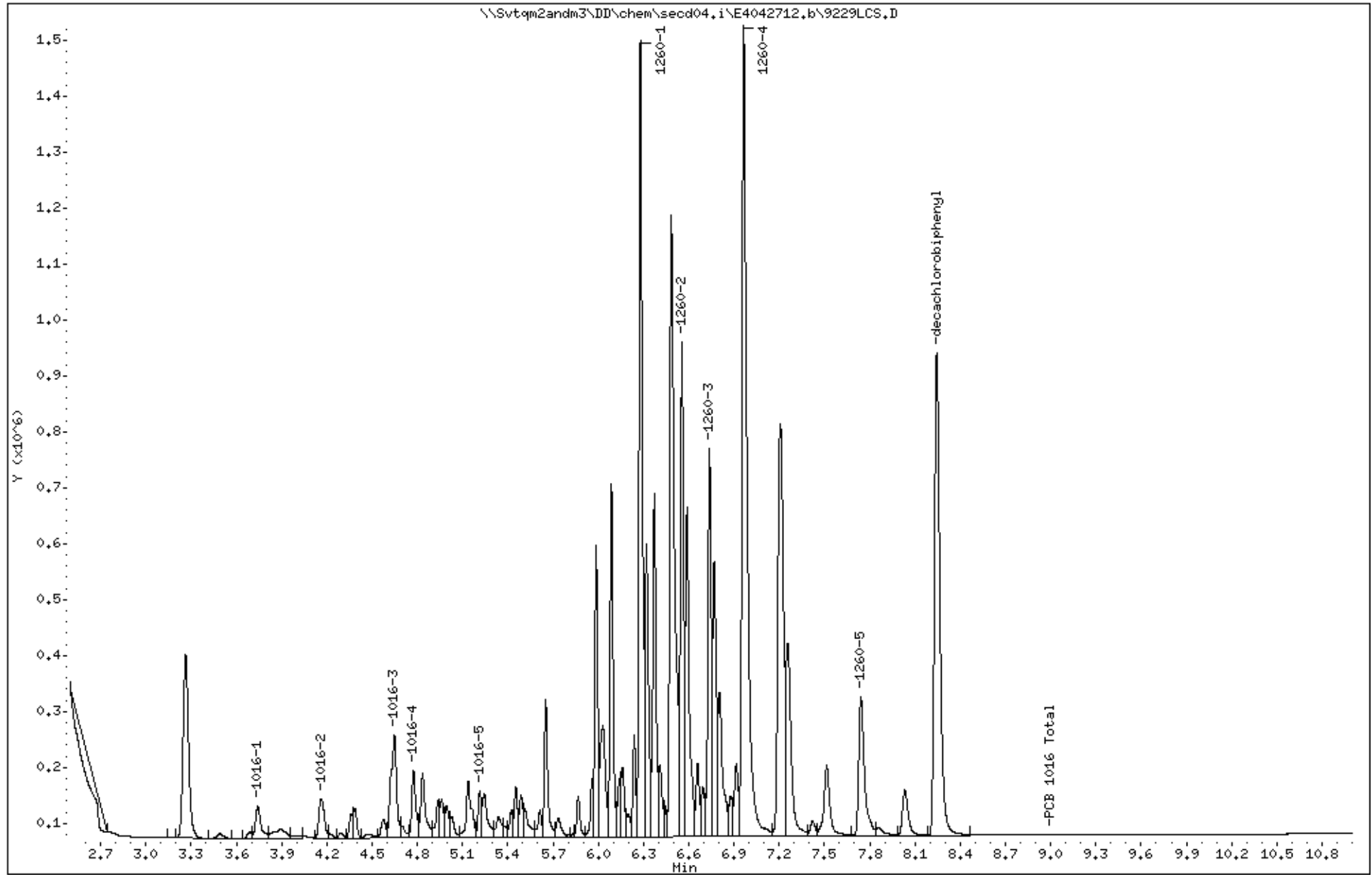
METHOD 8082

Data file : \\Svtqm2andm3\DD\chem\secd04.i\E4042712.b\9229LCS.D
 Lab Smp Id: 127812LCS Client Smp ID: 127812LCS
 Inj Date : 27-APR-2012 19:34
 Operator : RO Inst ID: secd04.i
 Smp Info : a127812lcs
 Misc Info :
 Comment :
 Method : \\Svtqm2andm3\DD\chem\secd04.i\E4042712.b\8082A.m
 Meth Date : 11-May-2012 14:05 cabadia Quant Type: ESTD
 Cal Date : 19-MAR-2012 11:19 Cal File: ACAL1.D
 Als bottle: 13 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10161260.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * (Vf/((Ws*(1-(M/100)))/1000)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	10.000	final vol.of extract
Ws	33.900	weight of sample extracted (g)
M	0.00000	% moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/ml)	FINAL (ug/Kg)
1 1016-1	3.741	3.743	-0.002	143037	0.13947	41.1
2 1016-2	4.162	4.165	-0.003	191069	0.15859	46.8
3 1016-3	4.648	4.649	-0.001	524918	0.14630	43.2
4 1016-4	4.774	4.774	0.000	227722	0.13614	40.2
5 1016-5	5.214	5.214	0.000	119973	0.12281	36.2
M 6 PCB 1016 Total				1206719	0.70330	207
7 1260-1	6.279	6.278	0.001	2122707	0.14494	42.8
8 1260-2	6.555	6.553	0.002	1278584	0.13184	38.9
9 1260-3	6.737	6.735	0.002	1018977	0.13101	38.6
10 1260-4	6.965	6.962	0.003	3342690	0.14299	42.2
11 1260-5	7.741	7.739	0.002	658681	0.13624	40.2
M 12 PCB 1260 Total				8421639	0.68702	203
\$ 45 decachlorobiphenyl	8.245	8.240	0.005	2195568	0.08168	24.1



PEL Laboratories, Inc.

METHOD 8082

Data file : \\Svtqm2andm3\DD\chem\secd04.i\E4042712.b\ACCV3.D
 Lab Smp Id: 45333 Client Smp ID: ACCV3
 Inj Date : 27-APR-2012 21:50
 Operator : RO Inst ID: secd04.i
 Smp Info : 45333
 Misc Info :
 Comment :
 Method : \\Svtqm2andm3\DD\chem\secd04.i\E4042712.b\8082A.m
 Meth Date : 11-May-2012 14:05 cabadia Quant Type: ESTD
 Cal Date : 19-MAR-2012 11:19 Cal File: ACAL1.D
 Als bottle: 22 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10161260.sub
 Target Version: 4.14
 Processing Host: WCHEM1

Concentration Formula: Amt * DF * (1/(Vo/1000)*Vf) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	10.000	final vol of sample
Cpnd Variable		Local Compound Variable

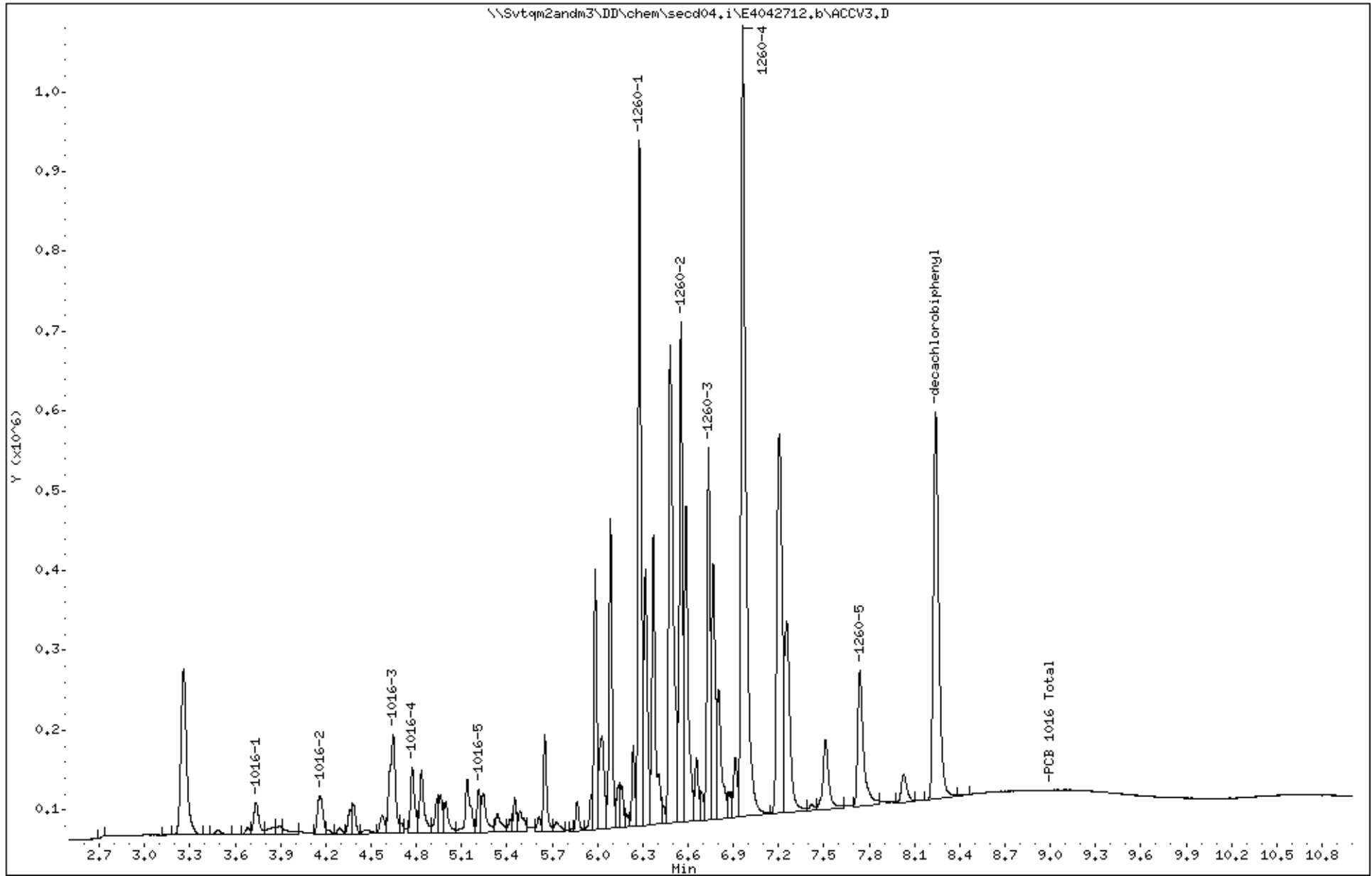
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/ml)	ON-COL (ug/ml)
1 1016-1	3.739	3.743	-0.004	97731	0.10000	0.095(M)
2 1016-2	4.161	4.165	-0.004	123307	0.10000	0.10(M)
3 1016-3	4.647	4.649	-0.002	328230	0.10000	0.091(M)
4 1016-4	4.773	4.774	-0.001	158471	0.10000	0.095(M)
5 1016-5	5.213	5.214	-0.001	81386	0.10000	0.083(M)
M 6 PCB 1016 Total				789125	0.50000	0.47
7 1260-1	6.277	6.278	-0.001	1258616	0.10000	0.086(M)
8 1260-2	6.552	6.553	-0.001	903801	0.10000	0.093(M)
9 1260-3	6.735	6.735	0.000	679494	0.10000	0.087(M)
10 1260-4	6.962	6.962	0.000	2188027	0.10000	0.094(M)
11 1260-5	7.738	7.739	-0.001	465027	0.10000	0.096(M)
M 12 PCB 1260 Total				5494965	0.50000	0.46
\$ 45 decachlorobiphenyl	8.240	8.240	0.000	1222625	0.05000	0.045(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Svtqm2andm3\DD\chem\secd04.i\E4042712,b\ACCV3.D
Date : 27-APR-2012 21:50
Client ID: ACCV3
Sample Info: 45333
Volume Injected (uL): 5.0
Column phase: STX-CLP1

Instrument: secd04.i
Operator: R0
Column diameter: 0.32



PEL Laboratories, Inc.

METHOD 8082

Data file : \\Svtqm2andm3\DD\chem\secd04.i\E4043012.b\ACCV1RB.D
 Lab Smp Id: 45865 Client Smp ID: ACCV1R
 Inj Date : 30-APR-2012 09:34
 Operator : RO Inst ID: secd04.i
 Smp Info : 45865
 Misc Info :
 Comment :
 Method : \\Svtqm2andm3\DD\chem\secd04.i\E4043012.b\8082A.m
 Meth Date : 11-May-2012 14:05 cabadia Quant Type: ESTD
 Cal Date : 19-MAR-2012 11:19 Cal File: ACAL1.D
 Als bottle: 2 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10161260.sub
 Target Version: 4.14
 Processing Host: WCHEM1

Concentration Formula: Amt * DF * (1/(Vo/1000)*Vf) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	10.000	final vol of sample
Cpnd Variable		Local Compound Variable

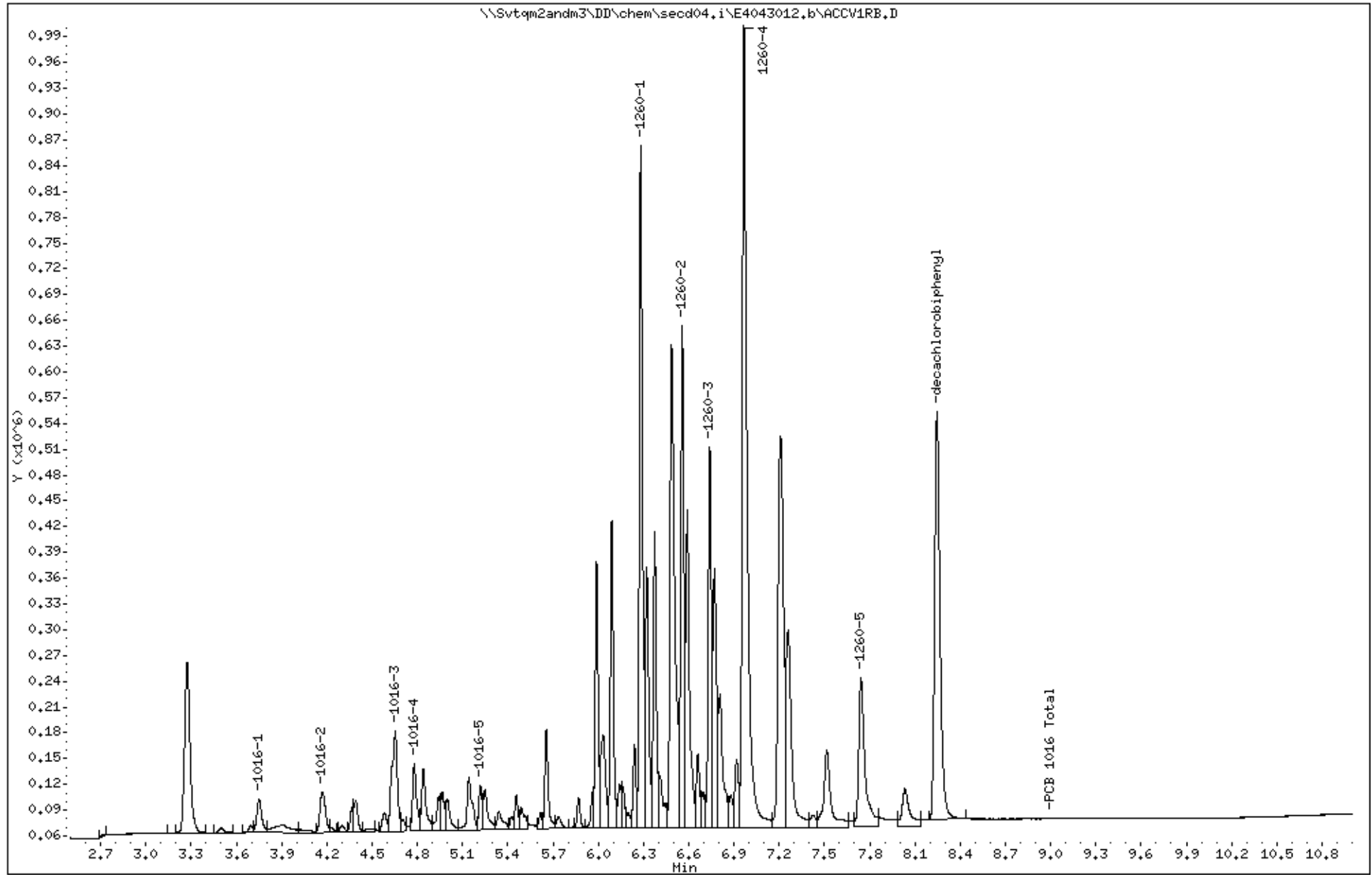
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/ml)	ON-COL (ug/ml)
1 1016-1	3.750	3.742	0.008	90983	0.10000	0.089(M)
2 1016-2	4.169	4.162	0.007	120984	0.10000	0.10(M)
3 1016-3	4.654	4.648	0.006	302549	0.10000	0.084(M)
4 1016-4	4.779	4.773	0.006	146983	0.10000	0.088(M)
5 1016-5	5.218	5.213	0.005	73141	0.10000	0.075(M)
M 6 PCB 1016 Total				734640	0.50000	0.44
7 1260-1	6.281	6.277	0.004	1162728	0.10000	0.079(M)
8 1260-2	6.556	6.553	0.003	843735	0.10000	0.087(M)
9 1260-3	6.739	6.736	0.003	658264	0.10000	0.085(M)
10 1260-4	6.966	6.962	0.004	2102484	0.10000	0.090(M)
11 1260-5	7.742	7.738	0.004	506616	0.10000	0.10(M)
M 12 PCB 1260 Total				5273827	0.50000	0.44
\$ 45 decachlorobiphenyl	8.246	8.241	0.005	1192758	0.05000	0.044

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Svtqm2andm3\DD\chem\secd04.i\E4043012.b\ACCV1RB.D
Date : 30-APR-2012 09:34
Client ID: ACCV1R
Sample Info: 45865
Volume Injected (uL): 5.0
Column phase: STX-CLP1

Instrument: secd04.i
Operator: R0
Column diameter: 0.32



PEL Laboratories, Inc.

METHOD 8082

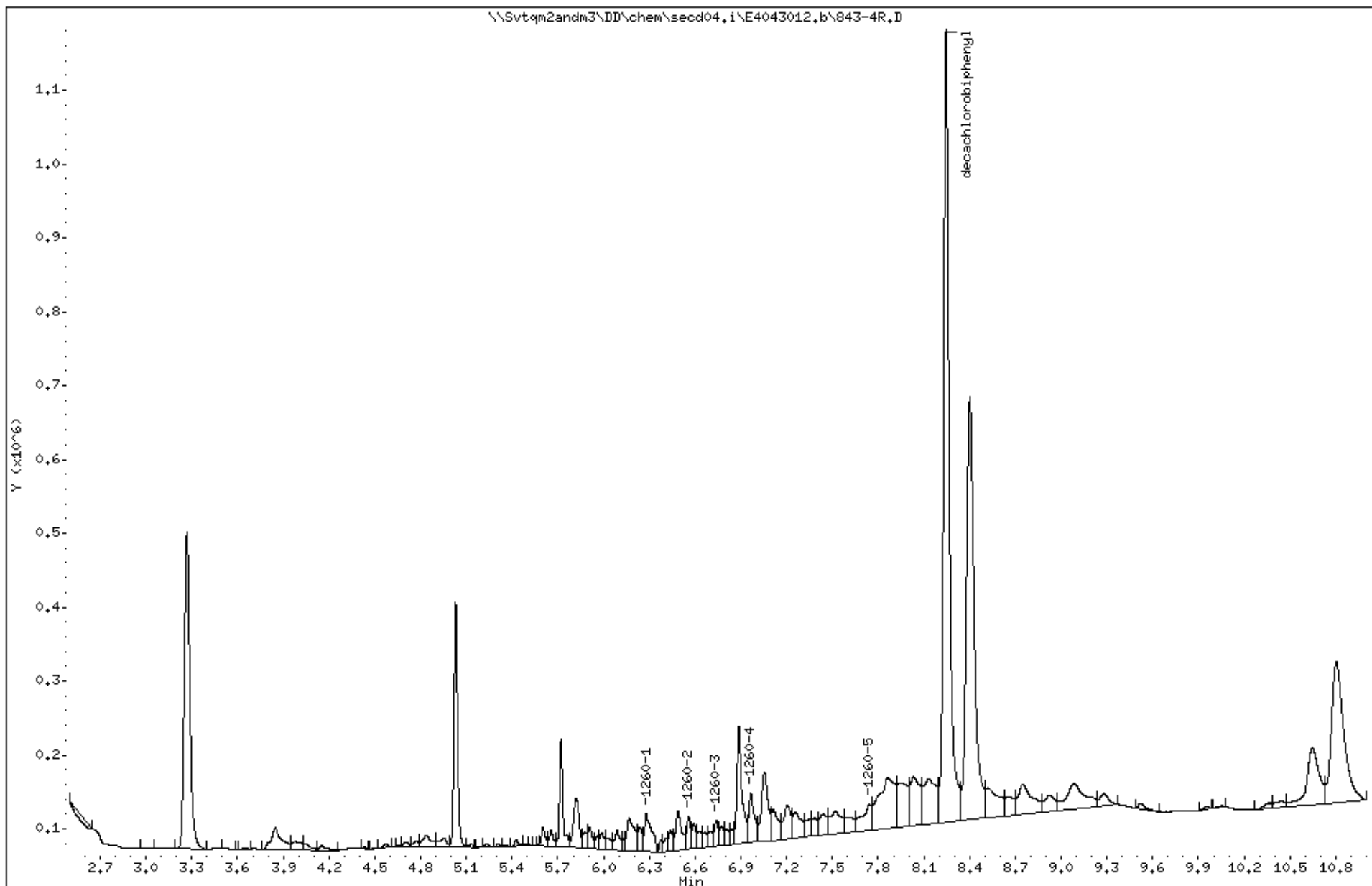
Data file : \\Svtqm2andm3\DD\chem\secd04.i\E4043012.b\843-4R.D
 Lab Smp Id: 350584304 Client Smp ID: EPAFMC-SD-08
 Inj Date : 30-APR-2012 11:16
 Operator : RO Inst ID: secd04.i
 Smp Info : a350584304
 Misc Info :
 Comment :
 Method : \\Svtqm2andm3\DD\chem\secd04.i\E4043012.b\8082A.m
 Meth Date : 11-May-2012 14:05 cabadia Quant Type: ESTD
 Cal Date : 19-MAR-2012 11:19 Cal File: ACAL1.D
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: pall.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * (Vf/((Ws*(1-(M/100)))/1000)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	10.000	final vol.of extract
Ws	33.330	weight of sample extracted (g)
M	2.900	% moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/ml)	FINAL (ug/Kg)
7 1260-1	6.279	6.277	0.002	164311	0.01122	3.5
8 1260-2	6.557	6.553	0.004	79674	0.00822	2.5
9 1260-3	6.738	6.736	0.002	65924	0.00848	2.6
10 1260-4	6.964	6.962	0.002	173368	0.00742	2.3
11 1260-5	7.743	7.738	0.005	157508	0.03258	10.1
M 12 PCB 1260 Total				640785	0.06791	21.0
\$ 45 decachlorobiphenyl	8.244	8.241	0.003	2809366	0.10451	32.3

\\Svtqm2andm3\DD\chem\secd04.i\E4043012,b\843-4R.D



PEL Laboratories, Inc.

METHOD 8082

Data file : \\Svtqm2andm3\DD\chem\secd04.i\E4043012.b\843-8R.D
 Lab Smp Id: 350584308 Client Smp ID: EPAFMC-SD-12
 Inj Date : 30-APR-2012 11:31
 Operator : RO Inst ID: secd04.i
 Smp Info : a350584308
 Misc Info :
 Comment :
 Method : \\Svtqm2andm3\DD\chem\secd04.i\E4043012.b\8082A.m
 Meth Date : 11-May-2012 14:05 cabadia Quant Type: ESTD
 Cal Date : 19-MAR-2012 11:19 Cal File: ACAL1.D
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: pall.sub
 Target Version: 4.14

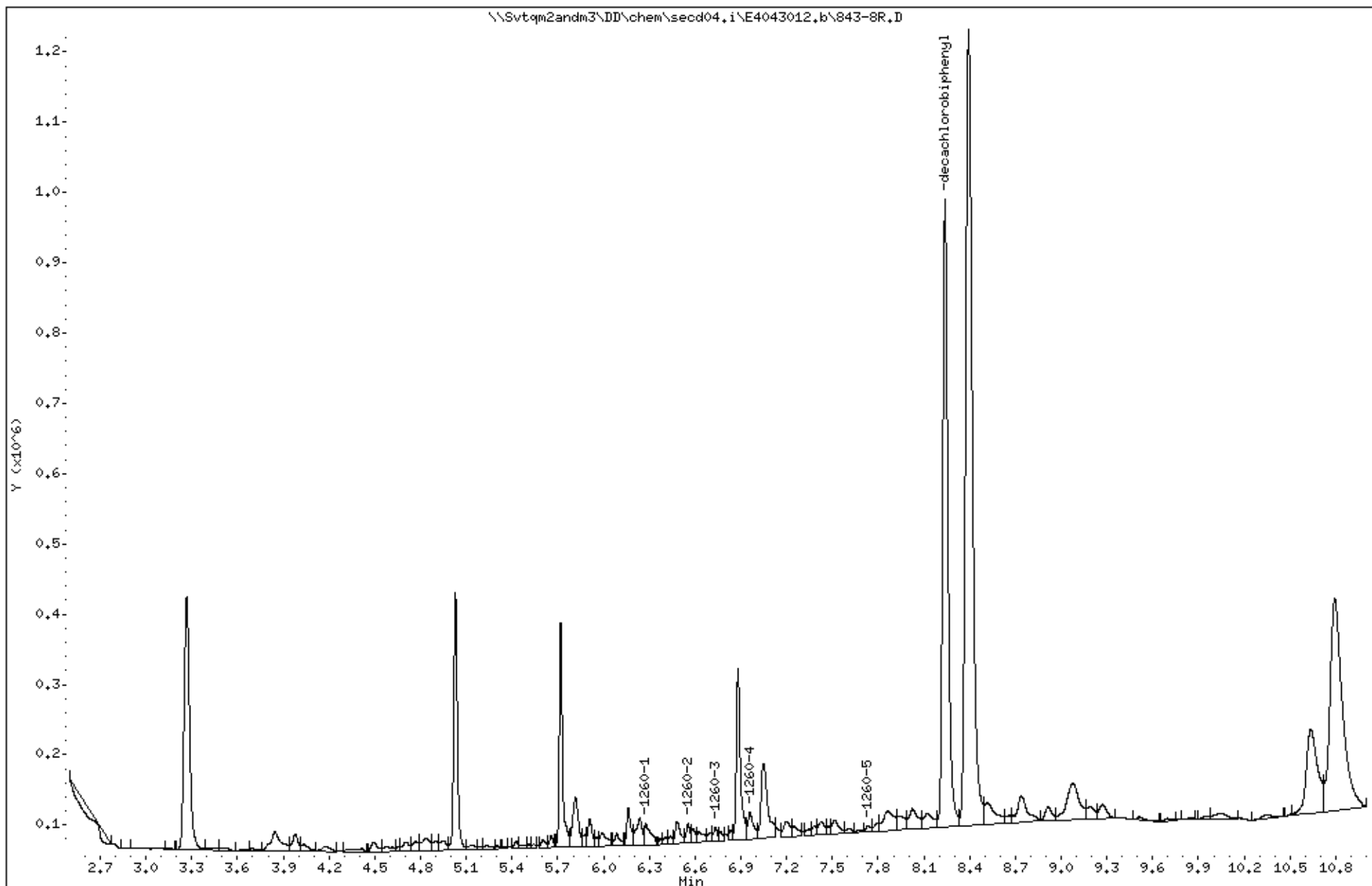
Concentration Formula: Amt * DF * (Vf/((Ws*(1-(M/100)))/1000)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	10.000	final vol.of extract
Ws	33.500	weight of sample extracted (g)
M	15.600	% moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/ml)	FINAL (ug/Kg)
7 1260-1	6.276	6.277	-0.001	91234	0.00623	2.2(M)
8 1260-2	6.553	6.553	0.000	46019	0.00475	1.7(M)
9 1260-3	6.733	6.736	-0.003	31604	0.00406	1.4(M)
10 1260-4	6.959	6.962	-0.003	94086	0.00402	1.4(M)
11 1260-5	7.734	7.738	-0.004	17655	0.00365	1.3(M)
M 12 PCB 1260 Total				280598	0.02271	8.0
\$ 45 decachlorobiphenyl	8.238	8.241	-0.003	2153994	0.08013	28.3(M)

QC Flag Legend

M - Compound response manually integrated.



PEL Laboratories, Inc.

METHOD 8082

Data file : \\Svtqm2andm3\DD\chem\secd04.i\E4043012.b\ACCV2B.D
 Lab Smp Id: 45333 Client Smp ID: ACCV2
 Inj Date : 30-APR-2012 12:01
 Operator : RO Inst ID: secd04.i
 Smp Info : 45333
 Misc Info :
 Comment :
 Method : \\Svtqm2andm3\DD\chem\secd04.i\E4043012.b\8082A.m
 Meth Date : 11-May-2012 14:05 cabadia Quant Type: ESTD
 Cal Date : 19-MAR-2012 11:19 Cal File: ACAL1.D
 Als bottle: 9 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10161260.sub
 Target Version: 4.14
 Processing Host: WCHEM1

Concentration Formula: Amt * DF * (1/(Vo/1000)*Vf) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vf	10.000	final vol of sample
Cpnd Variable		Local Compound Variable

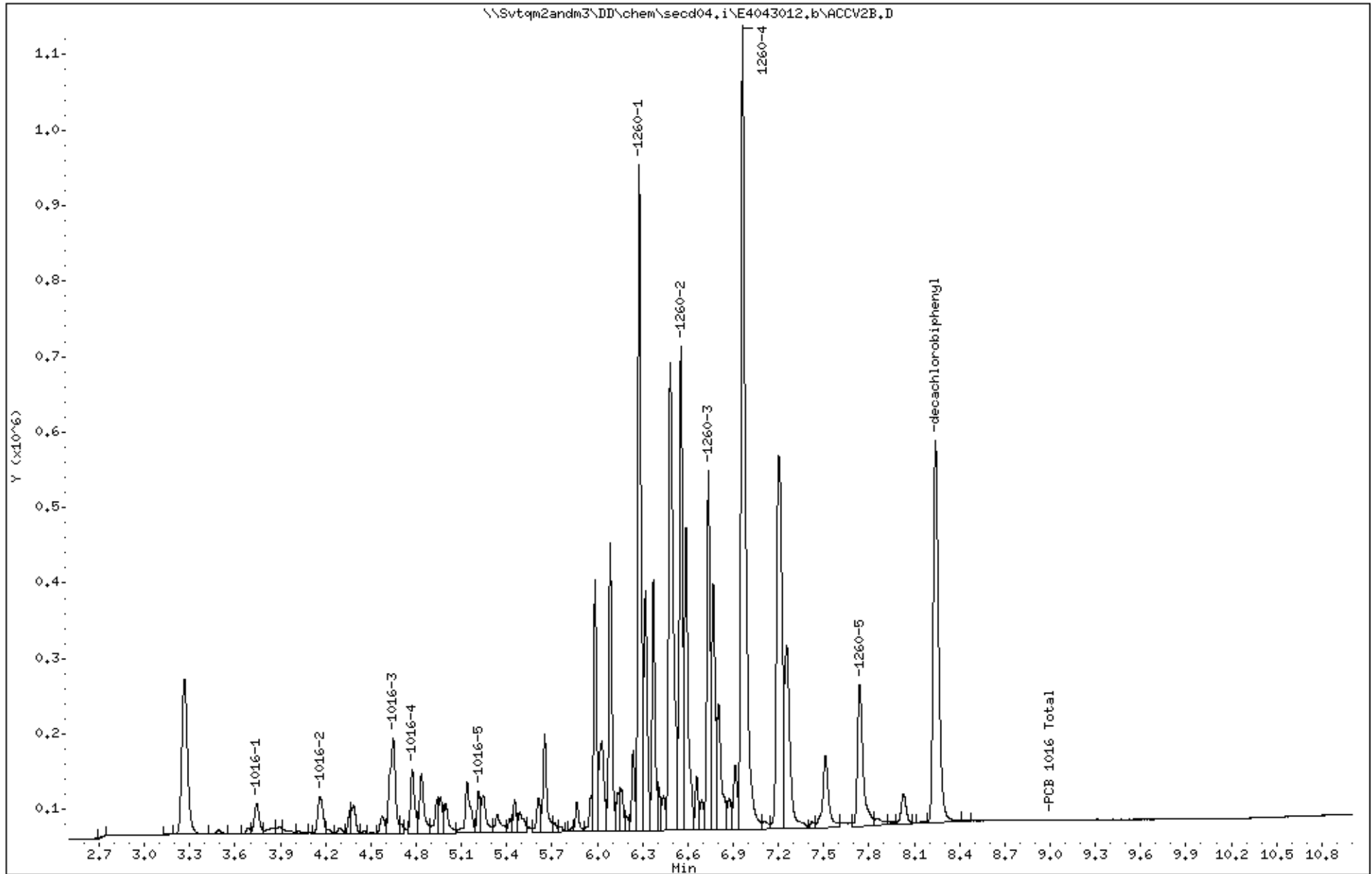
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/ml)	ON-COL (ug/ml)
1 1016-1	3.742	3.742	0.000	95508	0.10000	0.093(M)
2 1016-2	4.162	4.162	0.000	125783	0.10000	0.10(M)
3 1016-3	4.648	4.648	0.000	331968	0.10000	0.092(M)
4 1016-4	4.773	4.773	0.000	162961	0.10000	0.097(M)
5 1016-5	5.213	5.213	0.000	82497	0.10000	0.084(M)
M 6 PCB 1016 Total				798717	0.50000	0.47
7 1260-1	6.277	6.277	0.000	1281755	0.10000	0.088(M)
8 1260-2	6.553	6.553	0.000	904959	0.10000	0.093(M)
9 1260-3	6.736	6.736	0.000	688885	0.10000	0.088(M)
10 1260-4	6.962	6.962	0.000	2221305	0.10000	0.095(M)
11 1260-5	7.738	7.738	0.000	483685	0.10000	0.10(M)
M 12 PCB 1260 Total				5580589	0.50000	0.46
\$ 45 decachlorobiphenyl	8.241	8.241	0.000	1266263	0.05000	0.047(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Svtqm2andm3\DD\chem\secd04.i\E4043012.b\ACCV2B.D
Date : 30-APR-2012 12:01
Client ID: ACCV2
Sample Info: 45333
Volume Injected (uL): 5.0
Column phase: STX-CLP1

Instrument: secd04.i
Operator: R0
Column diameter: 0.32



Raw Data Inorganics/Metals

Spectrum Analytical, Inc. Florida Division

Prepared by: JB
 Balance ID: Met1
 Water Lot: NA
 CS/MS/SD Spike amount: 1.00 mL Each
 Water Bath Temperature: 95 °C
 Tube: 1202052

Date Prepared: 4/26/12
 Majors Spike: MET# 44322
 Minors Spike: MET# 45240
 Pipette(s) Used for spikes: P2
 Thermometer ID: 289366
 Glass Beads: 33394

Reagents: PM#
 HNO₃ 45139
 HCl 45535
 H₂O₂ 44539

Method (Circle one)
 Water: 3010A = ICP
 3005A = ICP
 3020A Mod = Furnace
 3020A Sb Mod = Furnace

Soil: 3050B = ICP or Furnace
 ILMO5.2 = CLP

REP ID # 042612A

Start Time: 15:02 Stop Time: 16:32

Container #	Sample ID	ID	Initial Weight (g) or Volume (mL) 3 SigFig	Final volume (mL)	Comment or Notification:	Pilot Batch #
	Blk 042612A	BLK	.563	50.0 mL		9231
	LCS ↓	LCS	.555			127829
	LCSD ↓	LCSD	.571			30
	3505843 01		.751		IV 5/9	31
	02	MS	.818			Pilot#
	03	SD	.812			Pilot#
	04		.628			
	05		.780			
	06		.789			
	07		.650			
	08		.634			
	09		.616			
	10		.881			
	11		.786			
	12		.773			

6010 soil

Spectrum Analytical, Inc. Florida Division

Prepared by: JB
 Balance ID: NA
 Filter Lot: NA
 LCS/MS/SD Spike amount: 1.00 mL Each
 Water Bath Temperature: 95 °C
 Dig Tube: 1202052

Date Prepared: 4/30/12
 Majors Spike: MET# 44322
 Minors Spike: MET# 45240
 Pipette(s) Used for spikes: P2
 Thermometer ID: 289366
 Glass Beads: NA

Reagents: PM#
 HNO₃ 45139
 HCl 45535
 H₂O₂ NA

Method (Circle one) Water: 3010A = ICP
 3005A = ICP
 3020A Mod = Furnace
 3020A Sb Mod = Furnace
 Soil: 3050B = ICP or Furnace
 ILMO5.2 = CLP
 PREP ID# 043012A Start Time: 9:59 Stop Time: 17:10

6010 w

Container #	Sample ID	ID	Initial Weight (g) or Volume (mL) 3 SigFig	Final volume (mL)	Comment or Notification:	Pilot Batch #
	BLK 043012A	BLK	50	50.0 mL		9260
	LCS ↓	LCS				128299
	LCSD ↓	LCSD				300
1	350584313				IV 5/9	301
1	↓	MS				302
1	↓	SD				303
2	↓ 14					
3	350586001				III 4/30	
4	↓ 02					
5	↓ 03					
6	↓ 04					
7	↓ 06					
8	5 350586402				IV 5/10	
9	7 ↓ 16					
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

4/30/12
 JB

```

=====
Sequence No.: 1                               Autosampler Location: 1
Sample ID: STD1-Blank                         Date Collected: 5/1/2012 9:04:47 AM
Analyst:                                       Data Type: Reprocessed on 5/1/2012 10:50:44 AM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
=====

```

Mean Data: STD1-Blank

Analyte	Mean Corrected		RSD		Calib
	Intensity	Std.Dev.	RSD	Conc.	Units
Sc Radial	280963.8	2359.99	0.84%	100	%
Sc 361.383	2454696.2	19596.65	0.80%	100	%
Ag 328.068†	-161.2	64.21	39.85%	[0.00]	ug/L
Al 308.215†	180.6	2.26	1.25%	[0.00]	ug/L
As 188.979†	-9.7	1.79	18.40%	[0.00]	ug/L
Ba 233.527†	-11.3	0.47	4.11%	[0.00]	ug/L
Be 234.861†	-239.7	1.13	0.47%	[0.00]	ug/L
Ca 315.887†	-455.6	7.89	1.73%	[0.00]	ug/L
Cd 226.502†	-22.1	1.12	5.08%	[0.00]	ug/L
Co 228.616†	-77.2	0.89	1.16%	[0.00]	ug/L
Cr 267.716†	68.9	5.46	7.92%	[0.00]	ug/L
Cu 324.752†	4821.9	176.64	3.66%	[0.00]	ug/L
Fe 259.939†	129.3	3.91	3.03%	[0.00]	ug/L
K 766.490†	-1909.8	50.30	2.63%	[0.00]	ug/L
Mg 279.077†	61.3	4.07	6.64%	[0.00]	ug/L
Mn 257.610†	212.2	2.79	1.32%	[0.00]	ug/L
Mo 202.031†	-13.1	2.66	20.25%	[0.00]	ug/L
Na 589.592†	511.1	29.48	5.77%	[0.00]	ug/L
Ni 231.604†	-71.3	1.04	1.46%	[0.00]	ug/L
Pb 220.353†	15.3	2.14	13.99%	[0.00]	ug/L
Sb 206.836†	17.4	1.12	6.44%	[0.00]	ug/L
Se 196.026†	-9.9	4.31	43.35%	[0.00]	ug/L
Sn 189.927†	-19.3	3.14	16.24%	[0.00]	ug/L
Sr 421.552†	34.5	9.49	27.50%	[0.00]	ug/L
Ti 334.940†	-300.2	39.68	13.22%	[0.00]	ug/L
Tl 190.801†	-19.4	1.06	5.48%	[0.00]	ug/L
V 292.402†	-9.9	1.27	12.86%	[0.00]	ug/L
Zn 206.200†	3.0	3.33	112.47%	[0.00]	ug/L

```

=====
Sequence No.: 2                               Autosampler Location: 14
Sample ID: Calib Std 1Maj                     Date Collected: 5/1/2012 9:10:56 AM
Analyst:                                       Data Type: Reprocessed on 5/1/2012 10:51:17 AM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
=====

```

Mean Data: Calib Std 1Maj

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc Radial	282018.8	1280.07	0.45%	100 %
Sc 361.383	2424027.2	14140.55	0.58%	98.8 %
Al 308.215†	45.6	5.78	12.68%	[25] ug/L
Ba 233.527†	44.2	3.81	8.63%	[0.5] ug/L
Be 234.861†	80.9	0.88	1.09%	[0.5] ug/L
Ca 315.887†	248.4	1.46	0.59%	[25] ug/L
Cd 226.502†	2.4	1.29	53.04%	[0.5] ug/L
Co 228.616†	5.8	3.53	60.34%	[0.5] ug/L
Fe 259.939†	549.5	7.86	1.43%	[40] ug/L
K 766.490†	324.0	36.82	11.36%	[25] ug/L
Mg 279.077†	240.5	7.80	3.24%	[25] ug/L
Na 589.592†	315.5	20.08	6.36%	[25] ug/L
Sr 421.552†	269.8	15.07	5.59%	[0.4] ug/L
Ti 334.940†	258.1	32.96	12.77%	[0.4] ug/L
V 292.402†	18.1	8.96	49.41%	[0.5] ug/L

```

=====
Sequence No.: 3                               Autosampler Location: 2
Sample ID: Calib Std 1                       Date Collected: 5/1/2012 9:17:04 AM
Analyst:                                       Data Type: Reprocessed on 5/1/2012 10:51:18 AM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
=====

```

Mean Data: Calib Std 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc Radial	278036.4	3345.43	1.20%	99.0 %
Sc 361.383	2414311.7	16435.51	0.68%	98.4 %
Ag 328.068†	626.5	15.18	2.42%	[5] ug/L
Al 308.215†	440.2	12.14	2.76%	[250] ug/L
As 188.979†	3.3	2.09	63.88%	[5] ug/L
Ba 233.527†	388.9	7.31	1.88%	[5] ug/L
Be 234.861†	928.7	2.68	0.29%	[5] ug/L
Ca 315.887†	1897.6	20.14	1.06%	[250] ug/L
Cd 226.502†	33.6	2.87	8.55%	[5] ug/L
Co 228.616†	93.9	5.10	5.43%	[5] ug/L
Cr 267.716†	167.7	4.26	2.54%	[5] ug/L
Cu 324.752†	1610.8	30.08	1.87%	[5] ug/L
Fe 259.939†	4982.4	75.43	1.51%	[400] ug/L
K 766.490†	1234.6	19.66	1.59%	[250] ug/L
Mg 279.077†	2289.2	11.28	0.49%	[250] ug/L
Mn 257.610†	2507.8	22.45	0.90%	[5] ug/L
Mo 202.031†	16.6	0.70	4.23%	[5] ug/L
Na 589.592†	2478.4	41.77	1.69%	[250] ug/L
Ni 231.604†	44.1	4.26	9.65%	[5] ug/L
Pb 220.353†	14.7	3.11	21.10%	[5] ug/L
Sb 206.836†	6.2	5.36	85.97%	[5] ug/L
Se 196.026†	3.4	2.18	63.31%	[5] ug/L
Sn 189.927†	4.4	1.20	27.38%	[4] ug/L
Sr 421.552†	2489.5	44.60	1.79%	[4] ug/L
Ti 334.940†	2205.5	39.56	1.79%	[4] ug/L
Tl 190.801†	4.6	2.81	60.37%	[5] ug/L
V 292.402†	187.2	6.02	3.21%	[5] ug/L
Zn 206.200†	43.8	2.84	6.49%	[5] ug/L

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=====
Sequence No.: 4                               Autosampler Location: 3
Sample ID: Calib Std 2                       Date Collected: 5/1/2012 9:23:14 AM
Analyst:                                       Data Type: Reprocessed on 5/1/2012 10:51:19 AM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
=====

```

Mean Data: Calib Std 2

Analyte	Mean Corrected			Calib
	Intensity	Std.Dev.	RSD	
Sc Radial	279408.7	1113.48	0.40%	99.4 %
Sc 361.383	2423145.6	30831.78	1.27%	98.7 %
Ag 328.068†	6167.4	86.64	1.40%	[50] ug/L
Al 308.215†	4372.8	18.26	0.42%	[2500] ug/L
As 188.979†	37.3	4.39	11.78%	[50] ug/L
Ba 233.527†	3809.3	72.35	1.90%	[50] ug/L
Be 234.861†	9684.2	211.18	2.18%	[50] ug/L
Ca 315.887†	18307.5	177.54	0.97%	[2500] ug/L
Cd 226.502†	341.1	1.85	0.54%	[50] ug/L
Co 228.616†	978.7	7.13	0.73%	[50] ug/L
Cr 267.716†	1648.4	11.65	0.71%	[50] ug/L
Cu 324.752†	14988.6	306.53	2.05%	[50] ug/L
Fe 259.939†	49200.1	277.04	0.56%	[4000] ug/L
K 766.490†	10553.8	94.73	0.90%	[2500] ug/L
Mg 279.077†	22854.8	390.83	1.71%	[2500] ug/L
Mn 257.610†	24720.3	370.18	1.50%	[50] ug/L
Mo 202.031†	166.0	1.18	0.71%	[50] ug/L
Na 589.592†	23610.1	184.28	0.78%	[2500] ug/L
Ni 231.604†	468.3	5.37	1.15%	[50] ug/L
Pb 220.353†	83.1	8.76	10.55%	[50] ug/L
Sb 206.836†	71.9	3.92	5.46%	[50] ug/L
Se 196.026†	28.9	2.07	7.14%	[50] ug/L
Sn 189.927†	53.4	3.76	7.04%	[40] ug/L
Sr 421.552†	24521.4	163.51	0.67%	[40] ug/L
Ti 334.940†	21850.0	343.90	1.57%	[40] ug/L
Tl 190.801†	53.9	2.69	4.99%	[50] ug/L
V 292.402†	1986.8	24.26	1.22%	[50] ug/L
Zn 206.200†	396.7	3.75	0.95%	[50] ug/L

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=====
Sequence No.: 5                               Autosampler Location: 4
Sample ID: Calib Std 3                         Date Collected: 5/1/2012 9:28:33 AM
Analyst:                                       Data Type: Reprocessed on 5/1/2012 10:51:20 AM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
=====
    
```

Mean Data: Calib Std 3

Analyte	Mean Corrected		RSD		Calib
	Intensity	Std.Dev.	RSD	Conc.	Units
Sc Radial	277615.6	3268.75	1.18%	98.8	%
Sc 361.383	2386904.4	5110.24	0.21%	97.2	%
Ag 328.068†	64640.7	464.49	0.72%	[500]	ug/L
Al 308.215†	44824.4	169.25	0.38%	[25000]	ug/L
As 188.979†	419.8	7.13	1.70%	[500]	ug/L
Ba 233.527†	39174.2	252.12	0.64%	[500]	ug/L
Be 234.861†	102081.4	236.01	0.23%	[500]	ug/L
Ca 315.887†	185787.9	179.48	0.10%	[25000]	ug/L
Cd 226.502†	3445.3	22.33	0.65%	[500]	ug/L
Co 228.616†	9955.3	103.43	1.04%	[500]	ug/L
Cr 267.716†	16750.2	159.52	0.95%	[500]	ug/L
Cu 324.752†	153369.1	232.74	0.15%	[500]	ug/L
Fe 259.939†	492747.8	1501.21	0.30%	[40000]	ug/L
K 766.490†	109440.3	314.61	0.29%	[25000]	ug/L
Mg 279.077†	234233.0	2780.61	1.19%	[25000]	ug/L
Mn 257.610†	246348.9	303.10	0.12%	[500]	ug/L
Mo 202.031†	1701.9	11.22	0.66%	[500]	ug/L
Na 589.592†	242582.5	966.31	0.40%	[25000]	ug/L
Ni 231.604†	4743.7	26.96	0.57%	[500]	ug/L
Pb 220.353†	827.2	3.46	0.42%	[500]	ug/L
Sb 206.836†	745.8	3.00	0.40%	[500]	ug/L
Se 196.026†	297.1	1.28	0.43%	[500]	ug/L
Sn 189.927†	535.5	6.09	1.14%	[400]	ug/L
Sr 421.552†	248917.9	891.14	0.36%	[400]	ug/L
Ti 334.940†	224081.3	618.83	0.28%	[400]	ug/L
Tl 190.801†	546.9	5.33	0.97%	[500]	ug/L
V 292.402†	20714.1	128.26	0.62%	[500]	ug/L
Zn 206.200†	4110.8	22.84	0.56%	[500]	ug/L


```

=====
Sequence No.: 6                               Autosampler Location: 9
Sample ID: Calib Std 4                       Date Collected: 5/1/2012 9:33:47 AM
Analyst:                                     Data Type: Reprocessed on 5/1/2012 10:51:22 AM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                           Initial Sample Vol:
Dilution:                                    Sample Prep Vol:
    
```

Mean Data: Calib Std 4

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
Sc Radial	264085.7	5464.14	2.07%	94.0	%
Sc 361.383	2226609.7	11830.95	0.53%	90.7	%
Al 308.215†	463616.4	600.50	0.13%	[250000]	ug/L
As 188.979†	4156.2	36.11	0.87%	[5000]	ug/L
Ba 233.527†	364746.5	448.84	0.12%	[5000]	ug/L
Be 234.861†	1034260.0	7378.55	0.71%	[5000]	ug/L
Ca 315.887†	1856519.8	2519.83	0.14%	[250000]	ug/L
Cd 226.502†	31389.5	241.40	0.77%	[5000]	ug/L
Co 228.616†	90288.8	179.92	0.20%	[5000]	ug/L
Cr 267.716†	157423.3	327.46	0.21%	[5000]	ug/L
Cu 324.752†	1598474.7	3838.71	0.24%	[5000]	ug/L
Fe 259.939†	4558236.2	89462.05	1.96%	[400000]	ug/L
K 766.490†	1155776.4	4035.28	0.35%	[250000]	ug/L
Mg 279.077†	2230381.5	47814.22	2.14%	[250000]	ug/L
Mn 257.610†	2290687.5	6216.80	0.27%	[5000]	ug/L
Mo 202.031†	16045.4	165.26	1.03%	[5000]	ug/L
Na 589.592†	2502722.3	34695.85	1.39%	[250000]	ug/L
Ni 231.604†	42641.9	75.37	0.18%	[5000]	ug/L
Pb 220.353†	7481.7	71.22	0.95%	[5000]	ug/L
Sb 206.836†	6960.6	80.26	1.15%	[5000]	ug/L
Se 196.026†	2937.2	18.82	0.64%	[5000]	ug/L
Sn 189.927†	5138.6	34.47	0.67%	[4000]	ug/L
Sr 421.552†	2455234.2	34565.75	1.41%	[4000]	ug/L
Ti 334.940†	2166319.3	5496.77	0.25%	[4000]	ug/L
Tl 190.801†	4782.2	40.07	0.84%	[5000]	ug/L
V 292.402†	197129.5	1104.87	0.56%	[5000]	ug/L
Zn 206.200†	37200.3	208.64	0.56%	[5000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Wt. Lin	-7.5	126.5	0.00000	0.999703	
Al 308.215	5	Wt. Lin	0.8	1.789	0.00000	0.999714	
As 188.979	4	Wt. Lin	-0.8	0.8131	0.00000	0.998974	
Ba 233.527	5	Wt. Lin	6.2	75.95	0.00000	0.999655	
Be 234.861	5	Wt. Lin	-19.1	198.9	0.00000	0.999322	
Ca 315.887	5	Wt. Lin	64.0	7.373	0.00000	0.999968	
Cd 226.502	5	Wt. Lin	-0.9	6.722	0.00000	0.999207	
Co 228.616	5	Wt. Lin	-3.8	19.28	0.00000	0.999252	
Cr 267.716	4	Wt. Lin	4.9	32.60	0.00000	0.999642	
Cu 324.752	4	Wt. Lin	62.6	308.6	0.00000	0.999567	
Fe 259.939	5	Wt. Lin	67.9	12.06	0.00000	0.999447	
K 766.490	5	Wt. Lin	215.7	4.307	0.00000	0.998669	
Mg 279.077	5	Wt. Lin	12.1	9.135	0.00000	0.999840	
Mn 257.610	4	Wt. Lin	111.6	480.5	0.00000	0.999391	
Mo 202.031	4	Wt. Lin	0.1	3.310	0.00000	0.999688	
Na 589.592	5	Wt. Lin	73.1	9.689	0.00000	0.999742	
Ni 231.604	4	Wt. Lin	-1.4	9.128	0.00000	0.998788	
Pb 220.353	4	Wt. Lin	7.0	1.553	0.00000	0.999106	
Sb 206.836	4	Wt. Lin	-1.0	1.447	0.00000	0.999549	
Se 196.026	4	Wt. Lin	0.5	0.5834	0.00000	0.999819	
Sn 189.927	4	Wt. Lin	-0.9	1.327	0.00000	0.999702	
Sr 421.552	5	Wt. Lin	23.3	616.3	0.00000	0.999980	
Ti 334.940	5	Wt. Lin	39.0	547.3	0.00000	0.999897	
Tl 190.801	4	Wt. Lin	-0.6	1.045	0.00000	0.997976	
V 292.402	5	Wt. Lin	-1.8	39.65	0.00000	0.999437	
Zn 206.200	4	Wt. Lin	4.6	7.829	0.00000	0.999123	

Sequence No.: 7

Autosampler Location: 6

Sample ID: ICV

Date Collected: 5/1/2012 9:40:53 AM

Analyst:

Data Type: Reprocessed on 5/1/2012 10:51:23 AM

Logged In Analyst (Original) : inorg

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	280990.5	100 %	0.3			0.28%
Sc 361.383	2404697.6	98.0 %	1.06			1.08%
Ag 328.068†	20741.1	164 ug/L	3.5	164 ug/L	3.5	2.15%
QC value within limits for Ag		328.068 Recovery = 102.67%				
Al 308.215†	73424.3	41000 ug/L	92.5	41000 ug/L	92.5	0.23%
QC value within limits for Al		308.215 Recovery = 102.60%				
As 188.979†	345.2	429 ug/L	2.4	429 ug/L	2.4	0.57%
QC value within limits for As		188.979 Recovery = 107.37%				
Ba 233.527†	93606.5	1230 ug/L	19.4	1230 ug/L	19.4	1.58%
QC value within limits for Ba		233.527 Recovery = 102.60%				
Be 234.861†	85591.6	430 ug/L	2.0	430 ug/L	2.0	0.46%
QC value within limits for Be		234.861 Recovery = 107.62%				
Ca 315.887†	305861.0	41500 ug/L	70.5	41500 ug/L	70.5	0.17%
QC value within limits for Ca		315.887 Recovery = 103.69%				
Cd 226.502†	2818.7	413 ug/L	3.3	413 ug/L	3.3	0.80%
QC value within limits for Cd		226.502 Recovery = 103.34%				
Co 228.616†	8019.9	414 ug/L	3.6	414 ug/L	3.6	0.88%
QC value within limits for Co		228.616 Recovery = 103.49%				
Cr 267.716†	13690.2	420 ug/L	6.8	420 ug/L	6.8	1.61%
QC value within limits for Cr		267.716 Recovery = 105.08%				
Cu 324.752†	126936.0	410 ug/L	5.6	410 ug/L	5.6	1.36%
QC value within limits for Cu		324.752 Recovery = 102.51%				
Fe 259.939†	502229.4	41600 ug/L	60.7	41600 ug/L	60.7	0.15%
QC value within limits for Fe		259.939 Recovery = 104.06%				
K 766.490†	180738.9	41900 ug/L	99.6	41900 ug/L	99.6	0.24%
QC value within limits for K		766.490 Recovery = 104.79%				
Mg 279.077†	372993.2	40800 ug/L	230.5	40800 ug/L	230.5	0.56%
QC value within limits for Mg		279.077 Recovery = 102.09%				
Mn 257.610†	203786.9	423 ug/L	1.3	423 ug/L	1.3	0.30%
QC value within limits for Mn		257.610 Recovery = 105.86%				
Mo 202.031†	1407.6	427 ug/L	4.1	427 ug/L	4.1	0.97%
QC value within limits for Mo		202.031 Recovery = 106.71%				
Na 589.592†	395200.3	40800 ug/L	54.5	40800 ug/L	54.5	0.13%
QC value within limits for Na		589.592 Recovery = 101.95%				
Ni 231.604†	3872.1	424 ug/L	3.6	424 ug/L	3.6	0.86%
QC value within limits for Ni		231.604 Recovery = 105.99%				
Pb 220.353†	679.6	434 ug/L	2.6	434 ug/L	2.6	0.60%
QC value within limits for Pb		220.353 Recovery = 108.52%				
Sb 206.836†	613.5	420 ug/L	4.2	420 ug/L	4.2	1.00%
QC value within limits for Sb		206.836 Recovery = 105.12%				
Se 196.026†	239.7	415 ug/L	13.5	415 ug/L	13.5	3.25%
QC value within limits for Se		196.026 Recovery = 103.86%				
Sn 189.927†	553.3	420 ug/L	7.2	420 ug/L	7.2	1.72%
QC value within limits for Sn		189.927 Recovery = 105.12%				
Sr 421.552†	250028.3	406 ug/L	0.3	406 ug/L	0.3	0.08%
QC value within limits for Sr		421.552 Recovery = 101.42%				
Ti 334.940†	236360.0	432 ug/L	1.6	432 ug/L	1.6	0.37%
QC value within limits for Ti		334.940 Recovery = 107.95%				
Tl 190.801†	439.2	418 ug/L	2.2	418 ug/L	2.2	0.53%
QC value within limits for Tl		190.801 Recovery = 104.58%				
V 292.402†	16890.5	427 ug/L	7.7	427 ug/L	7.7	1.81%
QC value within limits for V		292.402 Recovery = 106.68%				
Zn 206.200†	3403.7	434 ug/L	4.7	434 ug/L	4.7	1.07%
QC value within limits for Zn		206.200 Recovery = 108.53%				

All analyte(s) passed QC.

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Sequence No.: 8                               Autosampler Location: 1
Sample ID: ICB                               Date Collected: 5/1/2012 9:50:00 AM
Analyst:                                       Data Type: Reprocessed on 5/1/2012 10:51:30 AM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
    
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Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	277524.4	98.8 %	1.35			1.37%
Sc 361.383	2417497.1	98.5 %	0.66			0.67%
Ag 328.068†	43.1	0.400 ug/L	0.1417	0.400 ug/L	0.1417	35.38%
QC value within limits for Ag	328.068	Recovery =	Not calculated			
Al 308.215†	42.3	23.2 ug/L	4.36	23.2 ug/L	4.36	18.75%
QC value within limits for Al	308.215	Recovery =	Not calculated			
As 188.979†	0.2	1.22 ug/L	1.507	1.22 ug/L	1.507	123.70%
QC value within limits for As	188.979	Recovery =	Not calculated			
Ba 233.527†	24.9	0.245 ug/L	0.1026	0.245 ug/L	0.1026	41.87%
QC value within limits for Ba	233.527	Recovery =	Not calculated			
Be 234.861†	41.5	0.305 ug/L	0.0141	0.305 ug/L	0.0141	4.63%
QC value within limits for Be	234.861	Recovery =	Not calculated			
Ca 315.887†	107.0	5.83 ug/L	3.230	5.83 ug/L	3.230	55.38%
QC value within limits for Ca	315.887	Recovery =	Not calculated			
Cd 226.502†	0.9	0.273 ug/L	0.3278	0.273 ug/L	0.3278	119.86%
QC value within limits for Cd	226.502	Recovery =	Not calculated			
Co 228.616†	4.1	0.409 ug/L	0.2074	0.409 ug/L	0.2074	50.69%
QC value within limits for Co	228.616	Recovery =	Not calculated			
Cr 267.716†	6.6	0.053 ug/L	0.2414	0.053 ug/L	0.2414	457.07%
QC value within limits for Cr	267.716	Recovery =	Not calculated			
Cu 324.752†	520.9	1.48 ug/L	0.234	1.48 ug/L	0.234	15.77%
QC value within limits for Cu	324.752	Recovery =	Not calculated			
Fe 259.939†	345.0	23.0 ug/L	1.76	23.0 ug/L	1.76	7.67%
QC value within limits for Fe	259.939	Recovery =	Not calculated			
K 766.490†	71.4	-33.5 ug/L	8.26	-33.5 ug/L	8.26	24.66%
QC value within limits for K	766.490	Recovery =	Not calculated			
Mg 279.077†	132.6	13.2 ug/L	0.55	13.2 ug/L	0.55	4.20%
QC value within limits for Mg	279.077	Recovery =	Not calculated			
Mn 257.610†	65.7	-0.096 ug/L	0.0367	-0.096 ug/L	0.0367	38.34%
QC value within limits for Mn	257.610	Recovery =	Not calculated			
Mo 202.031†	1.5	0.424 ug/L	0.9303	0.424 ug/L	0.9303	219.65%
QC value within limits for Mo	202.031	Recovery =	Not calculated			
Na 589.592†	276.0	20.9 ug/L	1.33	20.9 ug/L	1.33	6.36%
QC value within limits for Na	589.592	Recovery =	Not calculated			
Ni 231.604†	-0.4	0.103 ug/L	0.3857	0.103 ug/L	0.3857	375.45%
QC value within limits for Ni	231.604	Recovery =	Not calculated			
Pb 220.353†	5.2	-1.15 ug/L	3.165	-1.15 ug/L	3.165	274.90%
QC value within limits for Pb	220.353	Recovery =	Not calculated			
Sb 206.836†	2.0	2.04 ug/L	2.664	2.04 ug/L	2.664	130.60%
QC value within limits for Sb	206.836	Recovery =	Not calculated			
Se 196.026†	0.5	0.008 ug/L	1.8473	0.008 ug/L	1.8473	>999.9%
QC value within limits for Se	196.026	Recovery =	Not calculated			
Sn 189.927†	2.8	2.80 ug/L	1.658	2.80 ug/L	1.658	59.30%
QC value within limits for Sn	189.927	Recovery =	Not calculated			
Sr 421.552†	166.1	0.232 ug/L	0.0406	0.232 ug/L	0.0406	17.52%
QC value within limits for Sr	421.552	Recovery =	Not calculated			
Ti 334.940†	116.8	0.142 ug/L	0.0708	0.142 ug/L	0.0708	49.84%
QC value within limits for Ti	334.940	Recovery =	Not calculated			
Tl 190.801†	2.2	2.61 ug/L	3.404	2.61 ug/L	3.404	130.53%
QC value within limits for Tl	190.801	Recovery =	Not calculated			
V 292.402†	8.3	0.254 ug/L	0.2234	0.254 ug/L	0.2234	87.89%
QC value within limits for V	292.402	Recovery =	Not calculated			
Zn 206.200†	0.8	-0.489 ug/L	0.4579	-0.489 ug/L	0.4579	93.56%
QC value within limits for Zn	206.200	Recovery =	Not calculated			

All analyte(s) passed QC.

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Sequence No.: 9                               Autosampler Location: 5
Sample ID: AFCEE CRI                         Date Collected: 5/1/2012 10:01:39 AM
Analyst:                                       Data Type: Reprocessed on 5/1/2012 10:51:31 AM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Mean Data: AFCEE CRI

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	283819.1	101 %	1.1			1.09%
Sc 361.383	2446277.8	99.7 %	0.40			0.40%
Ag 328.068†	1212.4	9.64 ug/L	0.461	9.64 ug/L	0.461	4.78%
QC value within limits for Ag	328.068	Recovery = 96.42%				
Al 308.215†	389.5	217 ug/L	7.5	217 ug/L	7.5	3.45%
QC value within limits for Al	308.215	Recovery = 108.68%				
As 188.979†	23.9	30.4 ug/L	2.77	30.4 ug/L	2.77	9.09%
QC value within limits for As	188.979	Recovery = 101.46%				
Ba 233.527†	771.8	10.1 ug/L	0.04	10.1 ug/L	0.04	0.38%
QC value within limits for Ba	233.527	Recovery = 100.77%				
Be 234.861†	778.3	4.01 ug/L	0.015	4.01 ug/L	0.015	0.36%
QC value within limits for Be	234.861	Recovery = 80.17%				
Ca 315.887†	7417.7	997 ug/L	13.3	997 ug/L	13.3	1.33%
QC value within limits for Ca	315.887	Recovery = 99.74%				
Cd 226.502†	32.5	4.97 ug/L	0.265	4.97 ug/L	0.265	5.33%
QC value within limits for Cd	226.502	Recovery = 99.34%				
Co 228.616†	191.8	10.1 ug/L	0.17	10.1 ug/L	0.17	1.64%
QC value within limits for Co	228.616	Recovery = 101.25%				
Cr 267.716†	333.5	10.1 ug/L	0.20	10.1 ug/L	0.20	1.97%
QC value within limits for Cr	267.716	Recovery = 100.85%				
Cu 324.752†	3176.7	10.0 ug/L	0.07	10.0 ug/L	0.07	0.69%
QC value within limits for Cu	324.752	Recovery = 100.35%				
Fe 259.939†	954.8	73.5 ug/L	1.71	73.5 ug/L	1.71	2.32%
QC value greater than the upper limit for Fe	259.939	Recovery = 147.03%				
K 766.490†	4247.4	936 ug/L	21.9	936 ug/L	21.9	2.34%
QC value within limits for K	766.490	Recovery = 93.61%				
Mg 279.077†	9061.4	991 ug/L	20.0	991 ug/L	20.0	2.02%
QC value within limits for Mg	279.077	Recovery = 99.07%				
Mn 257.610†	5103.5	10.4 ug/L	0.03	10.4 ug/L	0.03	0.31%
QC value within limits for Mn	257.610	Recovery = 103.88%				
Mo 202.031†	51.9	15.6 ug/L	0.73	15.6 ug/L	0.73	4.66%
QC value within limits for Mo	202.031	Recovery = 104.28%				
Na 589.592†	9701.7	994 ug/L	6.2	994 ug/L	6.2	0.63%
QC value within limits for Na	589.592	Recovery = 99.38%				
Ni 231.604†	182.9	20.2 ug/L	0.71	20.2 ug/L	0.71	3.52%
QC value within limits for Ni	231.604	Recovery = 100.76%				
Pb 220.353†	43.9	23.8 ug/L	2.15	23.8 ug/L	2.15	9.03%
QC value within limits for Pb	220.353	Recovery = 95.10%				
Sb 206.836†	70.8	49.5 ug/L	2.92	49.5 ug/L	2.92	5.89%
QC value within limits for Sb	206.836	Recovery = 99.01%				
Se 196.026†	19.8	33.2 ug/L	1.53	33.2 ug/L	1.53	4.62%
QC value within limits for Se	196.026	Recovery = 110.65%				
Sn 189.927†	13.4	10.9 ug/L	0.41	10.9 ug/L	0.41	3.75%
QC value within limits for Sn	189.927	Recovery = 108.66%				
Sr 421.552†	3026.8	4.87 ug/L	0.055	4.87 ug/L	0.055	1.14%
QC value within limits for Sr	421.552	Recovery = 97.47%				
Ti 334.940†	2895.6	5.22 ug/L	0.030	5.22 ug/L	0.030	0.57%
QC value within limits for Ti	334.940	Recovery = 104.39%				
Tl 190.801†	63.6	61.3 ug/L	2.10	61.3 ug/L	2.10	3.42%
QC value within limits for Tl	190.801	Recovery = 102.15%				
V 292.402†	398.2	10.1 ug/L	0.22	10.1 ug/L	0.22	2.21%
QC value within limits for V	292.402	Recovery = 101.03%				
Zn 206.200†	175.3	21.8 ug/L	0.33	21.8 ug/L	0.33	1.50%
QC value within limits for Zn	206.200	Recovery = 109.16%				
QC Failed.	Continue with analysis.					

Sequence No.: 10

Autosampler Location: 7

Sample ID: ICSA

Date Collected: 5/1/2012 10:07:51 AM

Analyst:

Data Type: Reprocessed on 5/1/2012 10:51:32 AM

Logged In Analyst (Original) : inorg

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	262046.1	93.3 %	0.26			0.28%
Sc 361.383	2230289.7	90.9 %	0.25			0.27%
Ag 328.068†	-215.4	-0.067 ug/L	0.1777	-0.067 ug/L	0.1777	265.79%
QC value within limits for Ag		328.068	Recovery =	Not calculated		
Al 308.215†	475177.9	266000 ug/L	2770.7	266000 ug/L	2770.7	1.04%
QC value within limits for Al		308.215	Recovery =	106.22%		
As 188.979†	-9.8	-4.47 ug/L	9.263	-4.47 ug/L	9.263	207.40%
QC value within limits for As		188.979	Recovery =	Not calculated		
Ba 233.527†	464.8	-0.043 ug/L	0.2118	-0.043 ug/L	0.2118	488.13%
QC value within limits for Ba		233.527	Recovery =	Not calculated		
Be 234.861†	-95.4	0.067 ug/L	0.1607	0.067 ug/L	0.1607	240.00%
QC value within limits for Be		234.861	Recovery =	Not calculated		
Ca 315.887†	1901448.7	258000 ug/L	2297.8	258000 ug/L	2297.8	0.89%
QC value within limits for Ca		315.887	Recovery =	103.16%		
Cd 226.502†	219.9	-0.039 ug/L	0.3791	-0.039 ug/L	0.3791	971.69%
QC value within limits for Cd		226.502	Recovery =	Not calculated		
Co 228.616†	119.9	-0.116 ug/L	0.3981	-0.116 ug/L	0.3981	342.19%
QC value within limits for Co		228.616	Recovery =	Not calculated		
Cr 267.716†	-71.4	-0.087 ug/L	0.5870	-0.087 ug/L	0.5870	676.12%
QC value within limits for Cr		267.716	Recovery =	Not calculated		
Cu 324.752†	109.2	0.146 ug/L	0.3056	0.146 ug/L	0.3056	209.01%
QC value within limits for Cu		324.752	Recovery =	Not calculated		
Fe 259.939†	2717019.8	225000 ug/L	2373.2	225000 ug/L	2373.2	1.05%
QC value within limits for Fe		259.939	Recovery =	100.09%		
K 766.490†	-82.6	-69.3 ug/L	32.02	-69.3 ug/L	32.02	46.22%
Mg 279.077†	2381335.1	261000 ug/L	2305.7	261000 ug/L	2305.7	0.88%
QC value within limits for Mg		279.077	Recovery =	104.28%		
Mn 257.610†	1580.4	0.580 ug/L	0.0897	0.580 ug/L	0.0897	15.48%
QC value within limits for Mn		257.610	Recovery =	Not calculated		
Mo 202.031†	-24.5	1.12 ug/L	0.167	1.12 ug/L	0.167	14.98%
QC value within limits for Mo		202.031	Recovery =	Not calculated		
Na 589.592†	258.2	19.1 ug/L	2.10	19.1 ug/L	2.10	11.01%
Ni 231.604†	28.5	1.02 ug/L	0.742	1.02 ug/L	0.742	72.50%
QC value within limits for Ni		231.604	Recovery =	Not calculated		
Pb 220.353†	-8.7	-2.57 ug/L	3.028	-2.57 ug/L	3.028	117.92%
QC value within limits for Pb		220.353	Recovery =	Not calculated		
Sb 206.836†	14.5	3.53 ug/L	1.730	3.53 ug/L	1.730	49.02%
QC value within limits for Sb		206.836	Recovery =	Not calculated		
Se 196.026†	-17.6	-2.16 ug/L	18.536	-2.16 ug/L	18.536	857.93%
QC value within limits for Se		196.026	Recovery =	Not calculated		
Sn 189.927†	-10.5	-0.143 ug/L	8.0731	-0.143 ug/L	8.0731	>999.9%
QC value within limits for Sn		189.927	Recovery =	Not calculated		
Sr 421.552†	661.0	1.03 ug/L	0.064	1.03 ug/L	0.064	6.20%
QC value within limits for Sr		421.552	Recovery =	Not calculated		
Ti 334.940†	-13.2	-0.095 ug/L	0.0861	-0.095 ug/L	0.0861	90.28%
QC value within limits for Ti		334.940	Recovery =	Not calculated		
Tl 190.801†	-3.3	0.896 ug/L	0.9946	0.896 ug/L	0.9946	110.96%
QC value within limits for Tl		190.801	Recovery =	Not calculated		
V 292.402†	-21.4	-0.047 ug/L	0.1652	-0.047 ug/L	0.1652	353.30%
QC value within limits for V		292.402	Recovery =	Not calculated		
Zn 206.200†	99.8	4.71 ug/L	0.463	4.71 ug/L	0.463	9.83%
QC value within limits for Zn		206.200	Recovery =	Not calculated		

All analyte(s) passed QC.

```

=====
Sequence No.: 11                               Autosampler Location: 8
Sample ID: ICSAB                               Date Collected: 5/1/2012 10:13:11 AM
Analyst:                                       Data Type: Reprocessed on 5/1/2012 10:51:33 AM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                    Sample Prep Vol:
=====

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Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	268119.0	95.4 %	0.68			0.71%
Sc 361.383	2234339.9	91.0 %	1.13			1.24%
Ag 328.068†	25634.4	204 ug/L	1.8	204 ug/L	1.8	0.88%
QC value within limits for Ag	328.068	Recovery = 102.09%				
Al 308.215†	459344.1	257000 ug/L	4218.0	257000 ug/L	4218.0	1.64%
QC value within limits for Al	308.215	Recovery = 102.69%				
As 188.979†	85.8	116 ug/L	4.5	116 ug/L	4.5	3.89%
QC value within limits for As	188.979	Recovery = 116.19%				
Ba 233.527†	39386.9	513 ug/L	6.6	513 ug/L	6.6	1.30%
QC value within limits for Ba	233.527	Recovery = 102.52%				
Be 234.861†	107292.0	540 ug/L	1.5	540 ug/L	1.5	0.28%
QC value within limits for Be	234.861	Recovery = 107.98%				
Ca 315.887†	1841869.6	250000 ug/L	3469.6	250000 ug/L	3469.6	1.39%
QC value within limits for Ca	315.887	Recovery = 99.92%				
Cd 226.502†	6754.6	973 ug/L	9.9	973 ug/L	9.9	1.01%
QC value within limits for Cd	226.502	Recovery = 97.31%				
Co 228.616†	9637.1	492 ug/L	6.1	492 ug/L	6.1	1.23%
QC value within limits for Co	228.616	Recovery = 98.48%				
Cr 267.716†	16551.6	510 ug/L	5.0	510 ug/L	5.0	0.98%
QC value within limits for Cr	267.716	Recovery = 101.98%				
Cu 324.752†	164189.7	531 ug/L	7.4	531 ug/L	7.4	1.40%
QC value within limits for Cu	324.752	Recovery = 106.12%				
Fe 259.939†	2629017.3	218000 ug/L	3017.3	218000 ug/L	3017.3	1.38%
QC value within limits for Fe	259.939	Recovery = 96.85%				
K 766.490†	-16.3	-53.9 ug/L	1.61	-53.9 ug/L	1.61	2.99%
Mg 279.077†	2305528.3	252000 ug/L	2591.6	252000 ug/L	2591.6	1.03%
QC value within limits for Mg	279.077	Recovery = 100.96%				
Mn 257.610†	246365.4	510 ug/L	2.5	510 ug/L	2.5	0.48%
QC value within limits for Mn	257.610	Recovery = 102.02%				
Mo 202.031†	1670.6	513 ug/L	5.0	513 ug/L	5.0	0.98%
QC value within limits for Mo	202.031	Recovery = 102.60%				
Na 589.592†	184.5	11.5 ug/L	2.43	11.5 ug/L	2.43	21.13%
Ni 231.604†	9170.7	1000 ug/L	11.4	1000 ug/L	11.4	1.14%
QC value within limits for Ni	231.604	Recovery = 100.30%				
Pb 220.353†	68.7	47.4 ug/L	9.36	47.4 ug/L	9.36	19.72%
QC value within limits for Pb	220.353	Recovery = 94.88%				
Sb 206.836†	940.8	640 ug/L	6.2	640 ug/L	6.2	0.97%
QC value within limits for Sb	206.836	Recovery = 106.75%				
Se 196.026†	18.5	59.6 ug/L	7.05	59.6 ug/L	7.05	11.84%
QC value within limits for Se	196.026	Recovery = 119.11%				
Sn 189.927†	679.1	522 ug/L	6.4	522 ug/L	6.4	1.22%
QC value within limits for Sn	189.927	Recovery = 104.40%				
Sr 421.552†	302209.4	490 ug/L	8.2	490 ug/L	8.2	1.66%
QC value within limits for Sr	421.552	Recovery = 98.07%				
Ti 334.940†	290810.2	531 ug/L	6.0	531 ug/L	6.0	1.12%
QC value within limits for Ti	334.940	Recovery = 106.26%				
Tl 190.801†	99.7	95.7 ug/L	4.26	95.7 ug/L	4.26	4.45%
QC value within limits for Tl	190.801	Recovery = 95.73%				
V 292.402†	20757.1	525 ug/L	6.9	525 ug/L	6.9	1.32%
QC value within limits for V	292.402	Recovery = 104.94%				
Zn 206.200†	7838.9	995 ug/L	11.0	995 ug/L	11.0	1.11%
QC value within limits for Zn	206.200	Recovery = 99.51%				

All analyte(s) passed QC.

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=====
Sequence No.: 12                               Autosampler Location: 4
Sample ID: CCV                                 Date Collected: 5/1/2012 10:18:29 AM
Analyst:                                       Data Type: Reprocessed on 5/1/2012 10:51:34 AM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
=====

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Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	279360.3	99.4 %	0.69			0.70%
Sc 361.383	2375685.2	96.8 %	0.06			0.06%
Ag 328.068†	64977.9	514 ug/L	5.7	514 ug/L	5.7	1.12%
QC value within limits for Ag	328.068	Recovery = 102.77%				
Al 308.215†	45213.3	25300 ug/L	38.8	25300 ug/L	38.8	0.15%
QC value within limits for Al	308.215	Recovery = 101.09%				
As 188.979†	424.8	528 ug/L	3.4	528 ug/L	3.4	0.64%
QC value within limits for As	188.979	Recovery = 105.61%				
Ba 233.527†	39797.1	523 ug/L	4.0	523 ug/L	4.0	0.76%
QC value within limits for Ba	233.527	Recovery = 104.55%				
Be 234.861†	103368.1	520 ug/L	1.8	520 ug/L	1.8	0.35%
QC value within limits for Be	234.861	Recovery = 103.97%				
Ca 315.887†	188977.4	25600 ug/L	69.8	25600 ug/L	69.8	0.27%
QC value within limits for Ca	315.887	Recovery = 102.49%				
Cd 226.502†	3483.3	512 ug/L	2.3	512 ug/L	2.3	0.45%
QC value within limits for Cd	226.502	Recovery = 102.44%				
Co 228.616†	10188.4	526 ug/L	4.2	526 ug/L	4.2	0.81%
QC value within limits for Co	228.616	Recovery = 105.29%				
Cr 267.716†	17051.9	523 ug/L	2.2	523 ug/L	2.2	0.43%
QC value within limits for Cr	267.716	Recovery = 104.70%				
Cu 324.752†	154809.4	500 ug/L	1.2	500 ug/L	1.2	0.24%
QC value within limits for Cu	324.752	Recovery = 100.02%				
Fe 259.939†	501908.5	41600 ug/L	82.8	41600 ug/L	82.8	0.20%
QC value within limits for Fe	259.939	Recovery = 103.99%				
K 766.490†	110056.9	25500 ug/L	95.9	25500 ug/L	95.9	0.38%
QC value within limits for K	766.490	Recovery = 102.02%				
Mg 279.077†	234731.1	25700 ug/L	195.7	25700 ug/L	195.7	0.76%
QC value within limits for Mg	279.077	Recovery = 102.79%				
Mn 257.610†	249458.1	518 ug/L	1.0	518 ug/L	1.0	0.20%
QC value within limits for Mn	257.610	Recovery = 103.69%				
Mo 202.031†	1729.3	524 ug/L	1.2	524 ug/L	1.2	0.23%
QC value within limits for Mo	202.031	Recovery = 104.81%				
Na 589.592†	243563.0	25100 ug/L	48.3	25100 ug/L	48.3	0.19%
QC value within limits for Na	589.592	Recovery = 100.52%				
Ni 231.604†	4816.9	527 ug/L	0.4	527 ug/L	0.4	0.09%
QC value within limits for Ni	231.604	Recovery = 105.49%				
Pb 220.353†	833.1	532 ug/L	2.8	532 ug/L	2.8	0.52%
QC value within limits for Pb	220.353	Recovery = 106.34%				
Sb 206.836†	757.0	519 ug/L	4.7	519 ug/L	4.7	0.91%
QC value within limits for Sb	206.836	Recovery = 103.76%				
Se 196.026†	301.9	521 ug/L	9.1	521 ug/L	9.1	1.74%
QC value within limits for Se	196.026	Recovery = 104.16%				
Sn 189.927†	545.2	413 ug/L	2.5	413 ug/L	2.5	0.60%
QC value within limits for Sn	189.927	Recovery = 103.16%				
Sr 421.552†	250523.6	406 ug/L	0.6	406 ug/L	0.6	0.16%
QC value within limits for Sr	421.552	Recovery = 101.62%				
Ti 334.940†	226353.0	414 ug/L	1.0	414 ug/L	1.0	0.23%
QC value within limits for Ti	334.940	Recovery = 103.38%				
Tl 190.801†	554.3	527 ug/L	5.5	527 ug/L	5.5	1.05%
QC value within limits for Tl	190.801	Recovery = 105.48%				
V 292.402†	20907.7	528 ug/L	6.3	528 ug/L	6.3	1.19%
QC value within limits for V	292.402	Recovery = 105.64%				
Zn 206.200†	4183.5	534 ug/L	2.4	534 ug/L	2.4	0.45%
QC value within limits for Zn	206.200	Recovery = 106.81%				

All analyte(s) passed QC.

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=====
Sequence No.: 13                               Autosampler Location: 1
Sample ID: CCB                                 Date Collected: 5/1/2012 10:23:42 AM
Analyst:                                       Data Type: Reprocessed on 5/1/2012 10:51:35 AM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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```

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	288400.7	103 %	0.7			0.71%
Sc 361.383	2472168.3	101 %	0.9			0.91%
Ag 328.068†	33.1	0.321 ug/L	0.1951	0.321 ug/L	0.1951	60.81%
QC value within limits for Ag	328.068	Recovery =	Not calculated			
Al 308.215†	39.4	21.6 ug/L	5.03	21.6 ug/L	5.03	23.28%
QC value within limits for Al	308.215	Recovery =	Not calculated			
As 188.979†	0.9	2.12 ug/L	1.879	2.12 ug/L	1.879	88.84%
QC value within limits for As	188.979	Recovery =	Not calculated			
Ba 233.527†	13.3	0.092 ug/L	0.0460	0.092 ug/L	0.0460	50.04%
QC value within limits for Ba	233.527	Recovery =	Not calculated			
Be 234.861†	23.6	0.215 ug/L	0.0118	0.215 ug/L	0.0118	5.47%
QC value within limits for Be	234.861	Recovery =	Not calculated			
Ca 315.887†	212.0	20.1 ug/L	2.79	20.1 ug/L	2.79	13.90%
QC value within limits for Ca	315.887	Recovery =	Not calculated			
Cd 226.502†	3.9	0.713 ug/L	0.2427	0.713 ug/L	0.2427	34.03%
QC value within limits for Cd	226.502	Recovery =	Not calculated			
Co 228.616†	3.2	0.363 ug/L	0.0448	0.363 ug/L	0.0448	12.34%
QC value within limits for Co	228.616	Recovery =	Not calculated			
Cr 267.716†	-1.7	-0.201 ug/L	0.1394	-0.201 ug/L	0.1394	69.21%
QC value within limits for Cr	267.716	Recovery =	Not calculated			
Cu 324.752†	318.0	0.827 ug/L	0.1171	0.827 ug/L	0.1171	14.16%
QC value within limits for Cu	324.752	Recovery =	Not calculated			
Fe 259.939†	396.8	27.3 ug/L	3.13	27.3 ug/L	3.13	11.49%
QC value within limits for Fe	259.939	Recovery =	Not calculated			
K 766.490†	310.5	22.0 ug/L	9.97	22.0 ug/L	9.97	45.28%
QC value within limits for K	766.490	Recovery =	Not calculated			
Mg 279.077†	199.2	20.5 ug/L	1.15	20.5 ug/L	1.15	5.64%
QC value within limits for Mg	279.077	Recovery =	Not calculated			
Mn 257.610†	-7.0	-0.247 ug/L	0.0165	-0.247 ug/L	0.0165	6.69%
QC value within limits for Mn	257.610	Recovery =	Not calculated			
Mo 202.031†	3.1	0.909 ug/L	0.4428	0.909 ug/L	0.4428	48.74%
QC value within limits for Mo	202.031	Recovery =	Not calculated			
Na 589.592†	150.0	7.94 ug/L	1.255	7.94 ug/L	1.255	15.80%
QC value within limits for Na	589.592	Recovery =	Not calculated			
Ni 231.604†	1.0	0.252 ug/L	0.0992	0.252 ug/L	0.0992	39.42%
QC value within limits for Ni	231.604	Recovery =	Not calculated			
Pb 220.353†	4.5	-1.55 ug/L	1.802	-1.55 ug/L	1.802	115.98%
QC value within limits for Pb	220.353	Recovery =	Not calculated			
Sb 206.836†	-3.8	-1.93 ug/L	2.102	-1.93 ug/L	2.102	108.82%
QC value within limits for Sb	206.836	Recovery =	Not calculated			
Se 196.026†	-1.2	-3.00 ug/L	3.647	-3.00 ug/L	3.647	121.61%
QC value within limits for Se	196.026	Recovery =	Not calculated			
Sn 189.927†	1.1	1.50 ug/L	1.363	1.50 ug/L	1.363	90.85%
QC value within limits for Sn	189.927	Recovery =	Not calculated			
Sr 421.552†	104.0	0.131 ug/L	0.0201	0.131 ug/L	0.0201	15.36%
QC value within limits for Sr	421.552	Recovery =	Not calculated			
Ti 334.940†	116.6	0.142 ug/L	0.0389	0.142 ug/L	0.0389	27.42%
QC value within limits for Ti	334.940	Recovery =	Not calculated			
Tl 190.801†	1.3	1.75 ug/L	3.719	1.75 ug/L	3.719	213.07%
QC value within limits for Tl	190.801	Recovery =	Not calculated			
V 292.402†	6.8	0.216 ug/L	0.1564	0.216 ug/L	0.1564	72.34%
QC value within limits for V	292.402	Recovery =	Not calculated			
Zn 206.200†	0.0	-0.589 ug/L	0.2257	-0.589 ug/L	0.2257	38.29%
QC value within limits for Zn	206.200	Recovery =	Not calculated			

All analyte(s) passed QC.

=====
Analysis Begun

Start Time: 5/1/2012 10:54:36 AM Plasma On Time: 5/1/2012 8:00:07 AM
Logged In Analyst: inorg Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N3112401 Autosampler Model: AS-93plus

Sample Information File: D:\pe\inorg\Sample Information\050112A.sif
Batch ID: 050112A
Results Data Set: 050112A-1
Results Library: d:\pe\inorg\Results\Results.mdb

=====
Sequence No.: 1 Autosampler Location: 6
Sample ID: ICV Date Collected: 5/1/2012 10:54:37 AM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
User canceled analysis.

=====
Analysis Begun

Start Time: 5/1/2012 10:54:55 AM Plasma On Time: 5/1/2012 8:00:07 AM
Logged In Analyst: inorg Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N3112401 Autosampler Model: AS-93plus

Sample Information File: D:\pe\inorg\Sample Information\050112A.sif
Batch ID: 050112A
Results Data Set: 050112A-1
Results Library: d:\pe\inorg\Results\Results.mdb

=====
Sequence No.: 8 Autosampler Location: 38
Sample ID: 350588401 Date Collected: 5/1/2012 10:54:55 AM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: 10X Sample Prep Vol:

Mean Data: 350588401

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	279075.3	99.3 %	0.91			0.92%
Sc 361.383	2372670.8	96.7 %	0.57			0.59%
Ag 328.068†	-53.8	-0.313 ug/L	0.1518	-3.13 ug/L	1.518	48.46%
Al 308.215†	14125.7	7890 ug/L	31.4	78900 ug/L	314.1	0.40%
As 188.979†	7.8	17.0 ug/L	3.27	170 ug/L	32.7	19.17%
Ba 233.527†	15287.3	201 ug/L	1.9	2010 ug/L	19.1	0.95%
Be 234.861†	292.5	1.58 ug/L	0.028	15.8 ug/L	0.28	1.77%
Ca 315.887†	1716676.2	233000 ug/L	1114.2	2330000 ug/L	11142.5	0.48%
Cd 226.502†	13.8	1.09 ug/L	0.300	10.9 ug/L	3.00	27.42%
Co 228.616†	125.0	5.64 ug/L	0.275	56.4 ug/L	2.75	4.87%
Cr 267.716†	31227.7	958 ug/L	3.8	9580 ug/L	38.3	0.40%
Cu 324.752†	4856.1	15.4 ug/L	0.16	154 ug/L	1.6	1.07%
Fe 259.939†	90917.5	7530 ug/L	17.6	75300 ug/L	176.2	0.23%
K 766.490†	16247.5	3720 ug/L	19.5	37200 ug/L	194.8	0.52%
Mg 279.077†	20967.8	2290 ug/L	13.4	22900 ug/L	134.1	0.58%
Mn 257.610†	33272.8	68.9 ug/L	0.39	689 ug/L	3.9	0.56%
Mo 202.031†	4.4	1.60 ug/L	0.288	16.0 ug/L	2.88	17.98%
Na 589.592†	7627.7	780 ug/L	2.6	7800 ug/L	26.1	0.33%
Ni 231.604†	156.2	17.2 ug/L	0.22	172 ug/L	2.2	1.28%
Pb 220.353†	6553.6	4220 ug/L	8.6	42200 ug/L	85.6	0.20%
Sb 206.836†	16.9	4.82 ug/L	1.294	48.2 ug/L	12.94	26.86%
Se 196.026†	-0.0	18.2 ug/L	16.61	182 ug/L	166.1	91.48%
Sn 189.927†	-26.7	6.51 ug/L	3.233	65.1 ug/L	32.33	49.62%
Sr 421.552†	160978.7	261 ug/L	0.5	2610 ug/L	4.5	0.17%
Ti 334.940†	241075.4	440 ug/L	3.2	4400 ug/L	31.6	0.72%
Tl 190.801†	-0.6	0.623 ug/L	3.4055	6.23 ug/L	34.055	547.06%
V 292.402†	1459.6	38.3 ug/L	0.14	383 ug/L	1.4	0.38%
Zn 206.200†	664.0	87.0 ug/L	0.95	870 ug/L	9.5	1.09%

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=====
Sequence No.: 9                               Autosampler Location: 39
Sample ID: 128299MB                           Date Collected: 5/1/2012 11:00:13 AM
Analyst:                                       Data Type: Original
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Mean Data: 128299MB

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	279380.4		99.4 %	0.69			0.69%
Sc 361.383	2415260.7		98.4 %	0.42			0.42%
Ag 328.068†	50.4		0.457 ug/L	0.2165	0.457 ug/L	0.2165	47.33%
Al 308.215†	15.7		8.36 ug/L	6.161	8.36 ug/L	6.161	73.71%
As 188.979†	-1.4		-0.648 ug/L	2.6069	-0.648 ug/L	2.6069	402.25%
Ba 233.527†	15.8		0.125 ug/L	0.0221	0.125 ug/L	0.0221	17.66%
Be 234.861†	-17.1		0.010 ug/L	0.0096	0.010 ug/L	0.0096	97.59%
Ca 315.887†	543.0		65.0 ug/L	51.03	65.0 ug/L	51.03	78.54%
Cd 226.502†	-1.0		-0.020 ug/L	0.1655	-0.020 ug/L	0.1655	829.48%
Co 228.616†	-2.7		0.055 ug/L	0.1697	0.055 ug/L	0.1697	308.25%
Cr 267.716†	19.8		0.457 ug/L	0.4724	0.457 ug/L	0.4724	103.31%
Cu 324.752†	474.1		1.31 ug/L	0.357	1.31 ug/L	0.357	27.25%
Fe 259.939†	167.6		8.27 ug/L	2.321	8.27 ug/L	2.321	28.07%
K 766.490†	117.2		-22.9 ug/L	24.23	-22.9 ug/L	24.23	105.92%
Mg 279.077†	36.2		2.71 ug/L	0.456	2.71 ug/L	0.456	16.82%
Mn 257.610†	6751.8		13.8 ug/L	0.09	13.8 ug/L	0.09	0.63%
Mo 202.031†	-1.0		-0.339 ug/L	0.4185	-0.339 ug/L	0.4185	123.58%
Na 589.592†	362.0		29.8 ug/L	4.46	29.8 ug/L	4.46	14.96%
Ni 231.604†	-6.9		-0.609 ug/L	0.3058	-0.609 ug/L	0.3058	50.25%
Pb 220.353†	8.7		1.14 ug/L	2.125	1.14 ug/L	2.125	186.98%
Sb 206.836†	0.1		0.746 ug/L	1.0008	0.746 ug/L	1.0008	134.23%
Se 196.026†	0.1		-0.755 ug/L	7.2736	-0.755 ug/L	7.2736	963.92%
Sn 189.927†	0.7		1.19 ug/L	1.730	1.19 ug/L	1.730	145.99%
Sr 421.552†	73.4		0.081 ug/L	0.0609	0.081 ug/L	0.0609	74.87%
Ti 334.940†	142.2		0.189 ug/L	0.0557	0.189 ug/L	0.0557	29.51%
Tl 190.801†	1.9		2.36 ug/L	1.047	2.36 ug/L	1.047	44.39%
V 292.402†	-1.3		0.014 ug/L	0.0329	0.014 ug/L	0.0329	236.73%
Zn 206.200†	9.1		0.571 ug/L	0.3067	0.571 ug/L	0.3067	53.67%

Sequence No.: 10
 Sample ID: 128300LCS
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 40
 Date Collected: 5/1/2012 11:06:22 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 128300LCS

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	277145.0	98.6 %	0.77			0.78%
Sc 361.383	2377224.3	96.8 %	0.44			0.45%
Ag 328.068†	24325.8	193 ug/L	0.9	193 ug/L	0.9	0.49%
Al 308.215†	90777.3	50700 ug/L	132.6	50700 ug/L	132.6	0.26%
As 188.979†	418.2	520 ug/L	3.5	520 ug/L	3.5	0.68%
Ba 233.527†	114508.2	1510 ug/L	2.2	1510 ug/L	2.2	0.15%
Be 234.861†	103607.8	521 ug/L	2.3	521 ug/L	2.3	0.45%
Ca 315.887†	374797.5	50800 ug/L	42.0	50800 ug/L	42.0	0.08%
Cd 226.502†	3388.9	497 ug/L	1.5	497 ug/L	1.5	0.30%
Co 228.616†	9607.7	496 ug/L	0.3	496 ug/L	0.3	0.05%
Cr 267.716†	16353.6	502 ug/L	1.7	502 ug/L	1.7	0.33%
Cu 324.752†	156173.2	505 ug/L	1.0	505 ug/L	1.0	0.19%
Fe 259.939†	613690.1	50900 ug/L	109.9	50900 ug/L	109.9	0.22%
K 766.490†	223734.3	51900 ug/L	141.3	51900 ug/L	141.3	0.27%
Mg 279.077†	459329.4	50300 ug/L	229.7	50300 ug/L	229.7	0.46%
Mn 257.610†	246947.3	513 ug/L	1.8	513 ug/L	1.8	0.35%
Mo 202.031†	1711.1	519 ug/L	2.6	519 ug/L	2.6	0.50%
Na 589.592†	490410.2	50600 ug/L	86.5	50600 ug/L	86.5	0.17%
Ni 231.604†	4656.3	510 ug/L	1.8	510 ug/L	1.8	0.35%
Pb 220.353†	809.9	518 ug/L	1.3	518 ug/L	1.3	0.26%
Sb 206.836†	743.1	509 ug/L	3.6	509 ug/L	3.6	0.71%
Se 196.026†	294.2	510 ug/L	4.1	510 ug/L	4.1	0.80%
Sn 189.927†	675.9	514 ug/L	7.9	514 ug/L	7.9	1.54%
Sr 421.552†	303922.5	493 ug/L	0.6	493 ug/L	0.6	0.12%
Ti 334.940†	291800.1	533 ug/L	1.7	533 ug/L	1.7	0.31%
Tl 190.801†	530.2	505 ug/L	4.2	505 ug/L	4.2	0.84%
V 292.402†	20454.2	517 ug/L	2.1	517 ug/L	2.1	0.41%
Zn 206.200†	3996.6	510 ug/L	3.7	510 ug/L	3.7	0.73%

Sequence No.: 11
 Sample ID: 128301LCSD
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 41
 Date Collected: 5/1/2012 11:11:36 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 128301LCSD

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	278693.6	99.2 %	0.54			0.55%
Sc 361.383	2380105.3	97.0 %	0.07			0.08%
Ag 328.068†	24334.8	193 ug/L	2.3	193 ug/L	2.3	1.20%
Al 308.215†	91214.2	51000 ug/L	97.7	51000 ug/L	97.7	0.19%
As 188.979†	423.1	526 ug/L	3.8	526 ug/L	3.8	0.73%
Ba 233.527†	116474.5	1530 ug/L	7.0	1530 ug/L	7.0	0.46%
Be 234.861†	105049.3	528 ug/L	3.6	528 ug/L	3.6	0.67%
Ca 315.887†	376238.6	51000 ug/L	76.5	51000 ug/L	76.5	0.15%
Cd 226.502†	3397.8	498 ug/L	3.3	498 ug/L	3.3	0.67%
Co 228.616†	9740.8	503 ug/L	4.8	503 ug/L	4.8	0.96%
Cr 267.716†	16573.4	509 ug/L	4.5	509 ug/L	4.5	0.89%
Cu 324.752†	157276.3	508 ug/L	2.7	508 ug/L	2.7	0.53%
Fe 259.939†	616123.3	51100 ug/L	79.2	51100 ug/L	79.2	0.16%
K 766.490†	224877.2	52200 ug/L	169.0	52200 ug/L	169.0	0.32%
Mg 279.077†	463369.9	50700 ug/L	495.3	50700 ug/L	495.3	0.98%
Mn 257.610†	249465.0	518 ug/L	2.1	518 ug/L	2.1	0.41%
Mo 202.031†	1726.4	524 ug/L	3.6	524 ug/L	3.6	0.68%
Na 589.592†	493673.5	50900 ug/L	57.5	50900 ug/L	57.5	0.11%
Ni 231.604†	4679.3	512 ug/L	2.2	512 ug/L	2.2	0.43%
Pb 220.353†	816.3	522 ug/L	6.9	522 ug/L	6.9	1.32%
Sb 206.836†	748.1	513 ug/L	4.9	513 ug/L	4.9	0.96%
Se 196.026†	298.6	518 ug/L	5.8	518 ug/L	5.8	1.12%
Sn 189.927†	690.6	525 ug/L	1.6	525 ug/L	1.6	0.31%
Sr 421.552†	306030.0	497 ug/L	0.8	497 ug/L	0.8	0.16%
Ti 334.940†	296007.4	541 ug/L	3.7	541 ug/L	3.7	0.69%
Tl 190.801†	529.0	504 ug/L	2.2	504 ug/L	2.2	0.44%
V 292.402†	20561.6	519 ug/L	7.2	519 ug/L	7.2	1.39%
Zn 206.200†	4061.4	518 ug/L	2.9	518 ug/L	2.9	0.55%

Sequence No.: 12
 Sample ID: 350584313
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 42
 Date Collected: 5/1/2012 11:16:49 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584313

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	279889.7		99.6 %	0.44			0.44%
Sc 361.383	2417721.1		98.5 %	0.82			0.83%
Ag 328.068†	-42.1		-0.273 ug/L	0.4808	-0.273 ug/L	0.4808	176.35%
Al 308.215†	116.2		64.5 ug/L	2.09	64.5 ug/L	2.09	3.24%
As 188.979†	4.9		7.06 ug/L	2.834	7.06 ug/L	2.834	40.14%
Ba 233.527†	2441.3		32.1 ug/L	0.31	32.1 ug/L	0.31	0.98%
Be 234.861†	-7.5		0.059 ug/L	0.0090	0.059 ug/L	0.0090	15.39%
Ca 315.887†	326807.8		44300 ug/L	410.5	44300 ug/L	410.5	0.93%
Cd 226.502†	2.9		0.557 ug/L	0.4352	0.557 ug/L	0.4352	78.16%
Co 228.616†	-1.9		0.092 ug/L	0.1353	0.092 ug/L	0.1353	146.93%
Cr 267.716†	34.2		0.901 ug/L	0.2339	0.901 ug/L	0.2339	25.97%
Cu 324.752†	755.5		2.19 ug/L	0.240	2.19 ug/L	0.240	10.96%
Fe 259.939†	1299.2		102 ug/L	1.1	102 ug/L	1.1	1.10%
K 766.490†	5089.5		1130 ug/L	29.2	1130 ug/L	29.2	2.58%
Mg 279.077†	186327.1		20400 ug/L	276.7	20400 ug/L	276.7	1.36%
Mn 257.610†	16410.1		33.9 ug/L	0.38	33.9 ug/L	0.38	1.12%
Mo 202.031†	-2.8		-0.871 ug/L	0.6539	-0.871 ug/L	0.6539	75.07%
Na 589.592†	252059.4		26000 ug/L	268.0	26000 ug/L	268.0	1.03%
Ni 231.604†	-6.0		-0.512 ug/L	0.3036	-0.512 ug/L	0.3036	59.35%
Pb 220.353†	8.3		0.882 ug/L	4.3205	0.882 ug/L	4.3205	490.00%
Sb 206.836†	-1.0		-0.005 ug/L	1.9727	-0.005 ug/L	1.9727	>999.9%
Se 196.026†	-3.6		-3.50 ug/L	1.964	-3.50 ug/L	1.964	56.14%
Sn 189.927†	-10.2		-2.36 ug/L	1.383	-2.36 ug/L	1.383	58.68%
Sr 421.552†	36224.9		58.7 ug/L	0.62	58.7 ug/L	0.62	1.06%
Ti 334.940†	756.4		1.31 ug/L	0.512	1.31 ug/L	0.512	39.03%
Tl 190.801†	-1.3		-0.703 ug/L	1.9562	-0.703 ug/L	1.9562	278.22%
V 292.402†	20.6		0.565 ug/L	0.0411	0.565 ug/L	0.0411	7.27%
Zn 206.200†	37.8		4.23 ug/L	0.295	4.23 ug/L	0.295	6.96%

Sequence No.: 13
 Sample ID: 350584313L
 Analyst:
 Initial Sample Wt:
 Dilution: 5X

Autosampler Location: 43
 Date Collected: 5/1/2012 11:22:59 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584313L

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	284219.2		101 %	0.7			0.71%
Sc 361.383	2458735.8		100 %	0.7			0.67%
Ag 328.068†	-1.4		0.049 ug/L	0.1397	0.244 ug/L	0.6983	286.32%
Al 308.215†	57.3		31.6 ug/L	2.43	158 ug/L	12.1	7.69%
As 188.979†	-0.8		-0.011 ug/L	3.1989	-0.056 ug/L	15.9943	>999.9%
Ba 233.527†	495.0		6.43 ug/L	0.005	32.2 ug/L	0.02	0.07%
Be 234.861†	-5.6		0.068 ug/L	0.0165	0.339 ug/L	0.0825	24.30%
Ca 315.887†	63333.6		8580 ug/L	28.6	42900 ug/L	143.1	0.33%
Cd 226.502†	0.9		0.270 ug/L	0.3396	1.35 ug/L	1.698	125.90%
Co 228.616†	-2.7		0.053 ug/L	0.2507	0.266 ug/L	1.2534	471.40%
Cr 267.716†	17.7		0.394 ug/L	0.0711	1.97 ug/L	0.355	18.02%
Cu 324.752†	317.3		0.813 ug/L	0.1924	4.07 ug/L	0.962	23.65%
Fe 259.939†	511.0		36.7 ug/L	1.10	184 ug/L	5.5	2.99%
K 766.490†	1318.7		256 ug/L	2.5	1280 ug/L	12.6	0.98%
Mg 279.077†	36459.9		3990 ug/L	69.6	20000 ug/L	347.8	1.74%
Mn 257.610†	3317.1		6.67 ug/L	0.062	33.4 ug/L	0.31	0.93%
Mo 202.031†	0.9		0.259 ug/L	0.7280	1.29 ug/L	3.640	281.16%
Na 589.592†	48205.8		4970 ug/L	18.7	24800 ug/L	93.3	0.38%
Ni 231.604†	-2.2		-0.089 ug/L	0.4730	-0.445 ug/L	2.3649	531.34%
Pb 220.353†	5.1		-1.22 ug/L	1.844	-6.10 ug/L	9.218	151.13%
Sb 206.836†	2.5		2.41 ug/L	0.784	12.1 ug/L	3.92	32.50%
Se 196.026†	-1.2		-2.30 ug/L	5.029	-11.5 ug/L	25.14	219.10%
Sn 189.927†	-0.3		1.38 ug/L	0.778	6.88 ug/L	3.892	56.54%
Sr 421.552†	7053.4		11.4 ug/L	0.05	57.0 ug/L	0.27	0.47%
Ti 334.940†	187.9		0.272 ug/L	0.0348	1.36 ug/L	0.174	12.80%
Tl 190.801†	1.6		2.10 ug/L	0.273	10.5 ug/L	1.36	13.01%
V 292.402†	-0.1		0.043 ug/L	0.1818	0.213 ug/L	0.9090	426.74%
Zn 206.200†	36.1		4.02 ug/L	0.304	20.1 ug/L	1.52	7.57%

Sequence No.: 14
 Sample ID: 128302MS
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 44
 Date Collected: 5/1/2012 11:29:11 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 128302MS

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	280549.9		99.9 %	0.19			0.19%
Sc 361.383	2340455.6		95.3 %	1.04			1.10%
Ag 328.068†	24920.4		197 ug/L	1.0	197 ug/L	1.0	0.49%
Al 308.215†	90120.8		50400 ug/L	133.6	50400 ug/L	133.6	0.27%
As 188.979†	428.5		533 ug/L	5.8	533 ug/L	5.8	1.09%
Ba 233.527†	115781.2		1520 ug/L	8.1	1520 ug/L	8.1	0.53%
Be 234.861†	104050.1		523 ug/L	3.4	523 ug/L	3.4	0.66%
Ca 315.887†	695798.6		94400 ug/L	187.9	94400 ug/L	187.9	0.20%
Cd 226.502†	3358.0		492 ug/L	4.6	492 ug/L	4.6	0.94%
Co 228.616†	9674.3		499 ug/L	2.4	499 ug/L	2.4	0.48%
Cr 267.716†	16589.0		509 ug/L	5.6	509 ug/L	5.6	1.10%
Cu 324.752†	156017.2		504 ug/L	0.9	504 ug/L	0.9	0.18%
Fe 259.939†	603325.4		50000 ug/L	147.4	50000 ug/L	147.4	0.29%
K 766.490†	227753.9		52800 ug/L	173.5	52800 ug/L	173.5	0.33%
Mg 279.077†	630212.6		69000 ug/L	593.5	69000 ug/L	593.5	0.86%
Mn 257.610†	261473.8		543 ug/L	2.1	543 ug/L	2.1	0.39%
Mo 202.031†	1714.8		520 ug/L	2.7	520 ug/L	2.7	0.52%
Na 589.592†	740085.4		76400 ug/L	731.2	76400 ug/L	731.2	0.96%
Ni 231.604†	4617.6		506 ug/L	3.3	506 ug/L	3.3	0.66%
Pb 220.353†	812.4		520 ug/L	6.3	520 ug/L	6.3	1.21%
Sb 206.836†	753.8		517 ug/L	3.3	517 ug/L	3.3	0.64%
Se 196.026†	292.4		510 ug/L	17.0	510 ug/L	17.0	3.33%
Sn 189.927†	673.7		517 ug/L	2.4	517 ug/L	2.4	0.46%
Sr 421.552†	335096.9		544 ug/L	1.1	544 ug/L	1.1	0.20%
Ti 334.940†	292471.0		534 ug/L	1.5	534 ug/L	1.5	0.29%
Tl 190.801†	523.1		498 ug/L	9.0	498 ug/L	9.0	1.81%
V 292.402†	20855.2		527 ug/L	4.5	527 ug/L	4.5	0.86%
Zn 206.200†	4010.2		512 ug/L	6.7	512 ug/L	6.7	1.31%

Sequence No.: 15
 Sample ID: 128303MSD
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 45
 Date Collected: 5/1/2012 11:34:30 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 128303MSD

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	265495.8	94.5 %	0.50			0.52%
Sc 361.383	2281127.6	92.9 %	0.27			0.29%
Ag 328.068†	25316.4	201 ug/L	2.0	201 ug/L	2.0	0.97%
Al 308.215†	96389.2	53900 ug/L	591.7	53900 ug/L	591.7	1.10%
As 188.979†	443.7	552 ug/L	3.5	552 ug/L	3.5	0.63%
Ba 233.527†	120771.3	1590 ug/L	6.8	1590 ug/L	6.8	0.43%
Be 234.861†	109149.1	549 ug/L	1.2	549 ug/L	1.2	0.22%
Ca 315.887†	758662.9	103000 ug/L	1137.0	103000 ug/L	1137.0	1.11%
Cd 226.502†	3473.8	509 ug/L	2.5	509 ug/L	2.5	0.49%
Co 228.616†	9969.8	514 ug/L	2.9	514 ug/L	2.9	0.57%
Cr 267.716†	17063.7	524 ug/L	2.0	524 ug/L	2.0	0.39%
Cu 324.752†	163793.9	529 ug/L	0.5	529 ug/L	0.5	0.10%
Fe 259.939†	643268.1	53300 ug/L	542.8	53300 ug/L	542.8	1.02%
K 766.490†	241735.9	56100 ug/L	488.4	56100 ug/L	488.4	0.87%
Mg 279.077†	684763.0	75000 ug/L	630.2	75000 ug/L	630.2	0.84%
Mn 257.610†	274500.8	570 ug/L	0.6	570 ug/L	0.6	0.11%
Mo 202.031†	1781.9	540 ug/L	3.3	540 ug/L	3.3	0.61%
Na 589.592†	800130.0	82600 ug/L	726.7	82600 ug/L	726.7	0.88%
Ni 231.604†	4779.1	523 ug/L	2.2	523 ug/L	2.2	0.42%
Pb 220.353†	839.7	538 ug/L	2.1	538 ug/L	2.1	0.38%
Sb 206.836†	774.7	531 ug/L	1.5	531 ug/L	1.5	0.28%
Se 196.026†	301.3	526 ug/L	5.8	526 ug/L	5.8	1.10%
Sn 189.927†	701.6	538 ug/L	5.5	538 ug/L	5.5	1.02%
Sr 421.552†	358749.1	582 ug/L	6.5	582 ug/L	6.5	1.12%
Ti 334.940†	305168.7	558 ug/L	1.3	558 ug/L	1.3	0.23%
Tl 190.801†	538.2	512 ug/L	1.4	512 ug/L	1.4	0.28%
V 292.402†	21337.8	539 ug/L	6.0	539 ug/L	6.0	1.12%
Zn 206.200†	4095.2	522 ug/L	3.0	522 ug/L	3.0	0.58%

Sequence No.: 16
 Sample ID: 350584313A
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 46
 Date Collected: 5/1/2012 11:39:49 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584313A

Analyte	Mean Corrected		Calib.		Sample		RSD
	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.		
Sc Radial	279399.4	99.4 %	0.38			0.38%	
Sc 361.383	2392110.0	97.5 %	0.39			0.40%	
Ag 328.068†	25489.6	202 ug/L	3.7	202 ug/L	3.7	1.84%	
Al 308.215†	91508.1	51100 ug/L	333.6	51100 ug/L	333.6	0.65%	
As 188.979†	430.7	536 ug/L	2.5	536 ug/L	2.5	0.46%	
Ba 233.527†	118622.1	1560 ug/L	15.5	1560 ug/L	15.5	0.99%	
Be 234.861†	108531.2	546 ug/L	6.5	546 ug/L	6.5	1.20%	
Ca 315.887†	689341.3	93500 ug/L	360.0	93500 ug/L	360.0	0.39%	
Cd 226.502†	3434.7	504 ug/L	2.8	504 ug/L	2.8	0.56%	
Co 228.616†	9920.0	512 ug/L	3.6	512 ug/L	3.6	0.71%	
Cr 267.716†	16985.1	522 ug/L	2.1	522 ug/L	2.1	0.41%	
Cu 324.752†	162116.8	524 ug/L	6.7	524 ug/L	6.7	1.28%	
Fe 259.939†	615574.3	51000 ug/L	174.5	51000 ug/L	174.5	0.34%	
K 766.490†	231468.5	53700 ug/L	185.3	53700 ug/L	185.3	0.35%	
Mg 279.077†	641496.4	70200 ug/L	591.8	70200 ug/L	591.8	0.84%	
Mn 257.610†	269988.1	561 ug/L	6.0	561 ug/L	6.0	1.08%	
Mo 202.031†	1728.5	524 ug/L	3.1	524 ug/L	3.1	0.60%	
Na 589.592†	740710.6	76400 ug/L	904.2	76400 ug/L	904.2	1.18%	
Ni 231.604†	4755.7	521 ug/L	3.6	521 ug/L	3.6	0.70%	
Pb 220.353†	826.1	529 ug/L	4.7	529 ug/L	4.7	0.88%	
Sb 206.836†	703.0	481 ug/L	6.1	481 ug/L	6.1	1.27%	
Se 196.026†	302.3	527 ug/L	0.7	527 ug/L	0.7	0.13%	
Sn 189.927†	681.1	522 ug/L	5.0	522 ug/L	5.0	0.96%	
Sr 421.552†	346385.7	562 ug/L	2.6	562 ug/L	2.6	0.45%	
Ti 334.940†	295580.2	540 ug/L	6.3	540 ug/L	6.3	1.16%	
Tl 190.801†	541.0	515 ug/L	2.2	515 ug/L	2.2	0.43%	
V 292.402†	21152.0	534 ug/L	10.6	534 ug/L	10.6	1.99%	
Zn 206.200†	4125.7	526 ug/L	1.2	526 ug/L	1.2	0.23%	

Sequence No.: 17
 Sample ID: 350584314
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 47
 Date Collected: 5/1/2012 11:45:10 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584314

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	284457.9		101 %	0.9			0.88%
Sc 361.383	2420198.6		98.6 %	0.40			0.41%
Ag 328.068†	22.9		0.241 ug/L	0.1616	0.241 ug/L	0.1616	67.04%
Al 308.215†	103.3		57.3 ug/L	3.57	57.3 ug/L	3.57	6.22%
As 188.979†	0.4		1.53 ug/L	3.292	1.53 ug/L	3.292	214.73%
Ba 233.527†	2583.9		33.9 ug/L	0.20	33.9 ug/L	0.20	0.59%
Be 234.861†	-7.3		0.060 ug/L	0.0015	0.060 ug/L	0.0015	2.52%
Ca 315.887†	340916.4		46200 ug/L	174.7	46200 ug/L	174.7	0.38%
Cd 226.502†	2.3		0.469 ug/L	0.3820	0.469 ug/L	0.3820	81.38%
Co 228.616†	-3.9		-0.012 ug/L	0.1277	-0.012 ug/L	0.1277	>999.9%
Cr 267.716†	31.3		0.813 ug/L	0.3145	0.813 ug/L	0.3145	38.67%
Cu 324.752†	776.7		2.25 ug/L	0.488	2.25 ug/L	0.488	21.70%
Fe 259.939†	1211.3		94.8 ug/L	1.73	94.8 ug/L	1.73	1.82%
K 766.490†	5452.5		1220 ug/L	45.8	1220 ug/L	45.8	3.77%
Mg 279.077†	195528.1		21400 ug/L	219.1	21400 ug/L	219.1	1.02%
Mn 257.610†	18213.3		37.7 ug/L	0.50	37.7 ug/L	0.50	1.32%
Mo 202.031†	-3.3		-1.03 ug/L	0.142	-1.03 ug/L	0.142	13.84%
Na 589.592†	263994.8		27200 ug/L	21.5	27200 ug/L	21.5	0.08%
Ni 231.604†	-3.9		-0.278 ug/L	0.4818	-0.278 ug/L	0.4818	173.39%
Pb 220.353†	6.2		-0.520 ug/L	4.8688	-0.520 ug/L	4.8688	935.87%
Sb 206.836†	3.5		3.11 ug/L	2.314	3.11 ug/L	2.314	74.47%
Se 196.026†	5.9		12.9 ug/L	4.55	12.9 ug/L	4.55	35.19%
Sn 189.927†	-9.8		-1.86 ug/L	1.649	-1.86 ug/L	1.649	88.83%
Sr 421.552†	37679.4		61.1 ug/L	0.07	61.1 ug/L	0.07	0.11%
Ti 334.940†	476.0		0.799 ug/L	0.0516	0.799 ug/L	0.0516	6.47%
Tl 190.801†	3.3		3.69 ug/L	2.224	3.69 ug/L	2.224	60.22%
V 292.402†	19.8		0.546 ug/L	0.1708	0.546 ug/L	0.1708	31.28%
Zn 206.200†	39.4		4.44 ug/L	0.644	4.44 ug/L	0.644	14.52%

Sequence No.: 18
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 5/1/2012 11:51:21 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	282499.0	101 %	0.0			0.03%
Sc 361.383	2380871.3	97.0 %	0.60			0.61%
Ag 328.068†	64301.7	509 ug/L	7.1	509 ug/L	7.1	1.40%
QC value within limits for Ag	328.068	Recovery = 101.70%				
Al 308.215†	45189.4	25300 ug/L	95.2	25300 ug/L	95.2	0.38%
QC value within limits for Al	308.215	Recovery = 101.04%				
As 188.979†	419.3	521 ug/L	7.3	521 ug/L	7.3	1.40%
QC value within limits for As	188.979	Recovery = 104.24%				
Ba 233.527†	39293.5	516 ug/L	8.3	516 ug/L	8.3	1.61%
QC value within limits for Ba	233.527	Recovery = 103.23%				
Be 234.861†	104655.4	526 ug/L	4.5	526 ug/L	4.5	0.85%
QC value within limits for Be	234.861	Recovery = 105.26%				
Ca 315.887†	187347.7	25400 ug/L	68.1	25400 ug/L	68.1	0.27%
QC value within limits for Ca	315.887	Recovery = 101.61%				
Cd 226.502†	3488.7	513 ug/L	0.3	513 ug/L	0.3	0.06%
QC value within limits for Cd	226.502	Recovery = 102.62%				
Co 228.616†	10096.5	522 ug/L	5.1	522 ug/L	5.1	0.99%
QC value within limits for Co	228.616	Recovery = 104.33%				
Cr 267.716†	16890.5	519 ug/L	5.1	519 ug/L	5.1	0.99%
QC value within limits for Cr	267.716	Recovery = 103.70%				
Cu 324.752†	156265.1	505 ug/L	5.8	505 ug/L	5.8	1.16%
QC value within limits for Cu	324.752	Recovery = 100.97%				
Fe 259.939†	497813.0	41300 ug/L	69.3	41300 ug/L	69.3	0.17%
QC value within limits for Fe	259.939	Recovery = 103.14%				
K 766.490†	109581.8	25400 ug/L	148.3	25400 ug/L	148.3	0.58%
QC value within limits for K	766.490	Recovery = 101.58%				
Mg 279.077†	232385.9	25400 ug/L	217.0	25400 ug/L	217.0	0.85%
QC value within limits for Mg	279.077	Recovery = 101.77%				
Mn 257.610†	251360.1	522 ug/L	5.1	522 ug/L	5.1	0.97%
QC value within limits for Mn	257.610	Recovery = 104.49%				
Mo 202.031†	1715.7	520 ug/L	2.0	520 ug/L	2.0	0.38%
QC value within limits for Mo	202.031	Recovery = 103.99%				
Na 589.592†	243314.8	25100 ug/L	76.5	25100 ug/L	76.5	0.30%
QC value within limits for Na	589.592	Recovery = 100.42%				
Ni 231.604†	4782.8	524 ug/L	1.6	524 ug/L	1.6	0.31%
QC value within limits for Ni	231.604	Recovery = 104.75%				
Pb 220.353†	831.4	531 ug/L	2.2	531 ug/L	2.2	0.41%
QC value within limits for Pb	220.353	Recovery = 106.13%				
Sb 206.836†	757.5	519 ug/L	4.7	519 ug/L	4.7	0.91%
QC value within limits for Sb	206.836	Recovery = 103.83%				
Se 196.026†	298.0	514 ug/L	7.7	514 ug/L	7.7	1.50%
QC value within limits for Se	196.026	Recovery = 102.84%				
Sn 189.927†	538.1	407 ug/L	5.2	407 ug/L	5.2	1.28%
QC value within limits for Sn	189.927	Recovery = 101.83%				
Sr 421.552†	249867.4	405 ug/L	0.7	405 ug/L	0.7	0.18%
QC value within limits for Sr	421.552	Recovery = 101.35%				
Ti 334.940†	227054.8	415 ug/L	3.5	415 ug/L	3.5	0.84%
QC value within limits for Ti	334.940	Recovery = 103.70%				
Tl 190.801†	546.3	520 ug/L	8.8	520 ug/L	8.8	1.70%
QC value within limits for Tl	190.801	Recovery = 103.95%				
V 292.402†	20597.5	520 ug/L	7.8	520 ug/L	7.8	1.49%
QC value within limits for V	292.402	Recovery = 104.07%				
Zn 206.200†	4083.2	521 ug/L	5.6	521 ug/L	5.6	1.08%
QC value within limits for Zn	206.200	Recovery = 104.25%				

All analyte(s) passed QC.

Sequence No.: 19
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 5/1/2012 11:56:34 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

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

Sequence No.: 20
Sample ID: CCB
Analyst:

Autosampler Location: 1
Date Collected: 5/1/2012 12:00:05 PM
Data Type: Original

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Sequence No.: 1                               Autosampler Location: 1
Sample ID: STD1-Blank                         Date Collected: 5/3/2012 8:34:44 AM
Analyst:                                       Data Type: Reprocessed on 5/3/2012 10:09:07 AM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Mean Data: STD1-Blank

Analyte	Mean Corrected		RSD		Calib
	Intensity	Std.Dev.	RSD	Conc.	Units
Sc Radial	288749.5	746.17	0.26%	100	%
Sc 361.383	2495593.6	19840.41	0.80%	100	%
Ag 328.068†	-115.1	24.11	20.96%	[0.00]	ug/L
Al 308.215†	193.9	1.37	0.71%	[0.00]	ug/L
As 188.979†	-11.5	1.77	15.39%	[0.00]	ug/L
Ba 233.527†	-13.8	2.76	20.02%	[0.00]	ug/L
Be 234.861†	-219.1	3.29	1.50%	[0.00]	ug/L
Ca 315.887†	-483.2	17.44	3.61%	[0.00]	ug/L
Cd 226.502†	-22.3	1.88	8.42%	[0.00]	ug/L
Co 228.616†	-83.6	2.95	3.53%	[0.00]	ug/L
Cr 267.716†	73.7	1.56	2.12%	[0.00]	ug/L
Cu 324.752†	4387.1	51.30	1.17%	[0.00]	ug/L
Fe 259.939†	119.3	6.00	5.03%	[0.00]	ug/L
K 766.490†	-1880.0	49.20	2.62%	[0.00]	ug/L
Mg 279.077†	65.5	5.09	7.77%	[0.00]	ug/L
Mn 257.610†	179.7	6.16	3.43%	[0.00]	ug/L
Mo 202.031†	-14.3	1.82	12.76%	[0.00]	ug/L
Na 589.592†	567.8	10.71	1.89%	[0.00]	ug/L
Ni 231.604†	-78.5	3.20	4.07%	[0.00]	ug/L
Pb 220.353†	21.3	2.23	10.47%	[0.00]	ug/L
Sb 206.836†	20.3	4.30	21.14%	[0.00]	ug/L
Se 196.026†	-9.0	5.35	59.29%	[0.00]	ug/L
Sn 189.927†	-19.1	3.36	17.64%	[0.00]	ug/L
Sr 421.552†	34.6	7.29	21.07%	[0.00]	ug/L
Ti 334.940†	-336.7	39.30	11.67%	[0.00]	ug/L
Tl 190.801†	-17.6	2.14	12.15%	[0.00]	ug/L
V 292.402†	-4.9	7.31	148.34%	[0.00]	ug/L
Zn 206.200†	3.7	0.82	22.53%	[0.00]	ug/L

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=====
Sequence No.: 2                               Autosampler Location: 14
Sample ID: Calib Std 1Maj                     Date Collected: 5/3/2012 8:40:53 AM
Analyst:                                       Data Type: Reprocessed on 5/3/2012 10:09:38 AM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
=====

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Mean Data: Calib Std 1Maj

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc Radial	295949.9	1528.99	0.52%	102 %
Sc 361.383	2529405.5	33239.20	1.31%	101 %
Al 308.215†	39.3	4.29	10.91%	[25] ug/L
Ba 233.527†	39.8	3.70	9.30%	[0.5] ug/L
Be 234.861†	79.0	4.43	5.61%	[0.5] ug/L
Ca 315.887†	267.1	7.16	2.68%	[25] ug/L
Cd 226.502†	1.7	1.75	105.08%	[0.5] ug/L
Co 228.616†	7.8	4.79	61.52%	[0.5] ug/L
Fe 259.939†	538.9	6.74	1.25%	[40] ug/L
K 766.490†	325.0	37.37	11.50%	[25] ug/L
Mg 279.077†	222.9	0.83	0.37%	[25] ug/L
Na 589.592†	311.7	9.50	3.05%	[25] ug/L
Sr 421.552†	255.5	11.73	4.59%	[0.4] ug/L
Ti 334.940†	214.3	61.30	28.61%	[0.4] ug/L
V 292.402†	25.3	1.43	5.63%	[0.5] ug/L

Sequence No.: 3
 Sample ID: Calib Std 1
 Analyst:
 Logged In Analyst (Original) : inorg
 Initial Sample Wt:
 Dilution:

Autosampler Location: 2
 Date Collected: 5/3/2012 8:47:01 AM
 Data Type: Reprocessed on 5/3/2012 10:09:39 AM
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: Calib Std 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc Radial	295485.1	2196.98	0.74%	102 %
Sc 361.383	2518824.8	24474.93	0.97%	101 %
Ag 328.068†	597.1	33.89	5.68%	[5] ug/L
Al 308.215†	401.2	2.46	0.61%	[250] ug/L
As 188.979†	6.8	3.23	47.59%	[5] ug/L
Ba 233.527†	375.8	6.58	1.75%	[5] ug/L
Be 234.861†	867.9	7.13	0.82%	[5] ug/L
Ca 315.887†	1880.0	6.54	0.35%	[250] ug/L
Cd 226.502†	28.7	1.63	5.69%	[5] ug/L
Co 228.616†	92.6	1.96	2.12%	[5] ug/L
Cr 267.716†	160.7	4.85	3.02%	[5] ug/L
Cu 324.752†	1407.9	129.74	9.22%	[5] ug/L
Fe 259.939†	4912.4	12.50	0.25%	[400] ug/L
K 766.490†	1239.9	26.69	2.15%	[250] ug/L
Mg 279.077†	2212.2	33.32	1.51%	[250] ug/L
Mn 257.610†	2375.0	40.86	1.72%	[5] ug/L
Mo 202.031†	13.5	1.68	12.40%	[5] ug/L
Na 589.592†	2362.8	13.57	0.57%	[250] ug/L
Ni 231.604†	40.8	1.69	4.14%	[5] ug/L
Pb 220.353†	5.2	4.78	92.33%	[5] ug/L
Sb 206.836†	6.7	2.71	40.22%	[5] ug/L
Se 196.026†	0.4	3.72	834.27%	[5] ug/L
Sn 189.927†	10.3	3.00	29.15%	[4] ug/L
Sr 421.552†	2406.8	22.10	0.92%	[4] ug/L
Ti 334.940†	2132.9	63.77	2.99%	[4] ug/L
Tl 190.801†	3.1	1.82	58.34%	[5] ug/L
V 292.402†	200.6	2.80	1.40%	[5] ug/L
Zn 206.200†	40.6	2.05	5.05%	[5] ug/L

Sequence No.: 4
 Sample ID: Calib Std 2
 Analyst:
 Logged In Analyst (Original) : inorg
 Initial Sample Wt:
 Dilution:

Autosampler Location: 3
 Date Collected: 5/3/2012 8:53:10 AM
 Data Type: Reprocessed on 5/3/2012 10:09:40 AM
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: Calib Std 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc Radial	287906.9	4421.38	1.54%	99.7 %
Sc 361.383	2480291.7	3857.21	0.16%	99.4 %
Ag 328.068†	6341.5	113.37	1.79%	[50] ug/L
Al 308.215†	4291.5	49.80	1.16%	[2500] ug/L
As 188.979†	41.1	1.24	3.02%	[50] ug/L
Ba 233.527†	3866.9	53.69	1.39%	[50] ug/L
Be 234.861†	9193.6	33.73	0.37%	[50] ug/L
Ca 315.887†	18145.7	181.69	1.00%	[2500] ug/L
Cd 226.502†	319.0	2.28	0.71%	[50] ug/L
Co 228.616†	955.4	3.72	0.39%	[50] ug/L
Cr 267.716†	1635.3	10.89	0.67%	[50] ug/L
Cu 324.752†	14340.4	32.58	0.23%	[50] ug/L
Fe 259.939†	49873.0	466.10	0.93%	[4000] ug/L
K 766.490†	10698.1	111.77	1.04%	[2500] ug/L
Mg 279.077†	22962.7	295.86	1.29%	[2500] ug/L
Mn 257.610†	23490.4	96.71	0.41%	[50] ug/L
Mo 202.031†	161.3	1.36	0.85%	[50] ug/L
Na 589.592†	24007.7	204.55	0.85%	[2500] ug/L
Ni 231.604†	459.1	2.73	0.60%	[50] ug/L
Pb 220.353†	75.2	3.07	4.09%	[50] ug/L
Sb 206.836†	68.9	0.94	1.36%	[50] ug/L
Se 196.026†	26.2	2.99	11.42%	[50] ug/L
Sn 189.927†	51.3	3.62	7.05%	[40] ug/L
Sr 421.552†	24818.7	115.61	0.47%	[40] ug/L
Ti 334.940†	21704.9	184.07	0.85%	[40] ug/L
Tl 190.801†	52.9	1.01	1.90%	[50] ug/L
V 292.402†	2050.5	24.95	1.22%	[50] ug/L
Zn 206.200†	407.8	2.07	0.51%	[50] ug/L


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Sequence No.: 5                               Autosampler Location: 4
Sample ID: Calib Std 3                       Date Collected: 5/3/2012 8:58:25 AM
Analyst:                                     Data Type: Reprocessed on 5/3/2012 10:09:41 AM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                           Initial Sample Vol:
Dilution:                                   Sample Prep Vol:
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Mean Data: Calib Std 3

Analyte	Mean Corrected			RSD	Calib	
	Intensity	Std.Dev.	Conc.		Units	
Sc Radial	287021.9	1152.29	0.40%	99.4	%	
Sc 361.383	2446294.9	25954.25	1.06%	98.0	%	
Ag 328.068†	63797.8	728.45	1.14%	[500]	ug/L	
Al 308.215†	42893.8	128.85	0.30%	[25000]	ug/L	
As 188.979†	410.2	9.04	2.20%	[500]	ug/L	
Ba 233.527†	38468.1	457.00	1.19%	[500]	ug/L	
Be 234.861†	95042.8	880.03	0.93%	[500]	ug/L	
Ca 315.887†	180075.5	470.36	0.26%	[25000]	ug/L	
Cd 226.502†	3173.9	24.68	0.78%	[500]	ug/L	
Co 228.616†	9506.0	78.52	0.83%	[500]	ug/L	
Cr 267.716†	16232.7	181.88	1.12%	[500]	ug/L	
Cu 324.752†	146421.8	863.63	0.59%	[500]	ug/L	
Fe 259.939†	487297.1	1831.41	0.38%	[40000]	ug/L	
K 766.490†	106542.8	395.85	0.37%	[25000]	ug/L	
Mg 279.077†	229748.9	3903.11	1.70%	[25000]	ug/L	
Mn 257.610†	230544.7	2243.16	0.97%	[500]	ug/L	
Mo 202.031†	1605.0	16.65	1.04%	[500]	ug/L	
Na 589.592†	238610.0	305.94	0.13%	[25000]	ug/L	
Ni 231.604†	4520.7	52.16	1.15%	[500]	ug/L	
Pb 220.353†	771.9	6.88	0.89%	[500]	ug/L	
Sb 206.836†	736.2	12.13	1.65%	[500]	ug/L	
Se 196.026†	277.1	5.94	2.14%	[500]	ug/L	
Sn 189.927†	513.2	5.70	1.11%	[400]	ug/L	
Sr 421.552†	243536.7	85.01	0.03%	[400]	ug/L	
Ti 334.940†	218066.6	1073.57	0.49%	[400]	ug/L	
Tl 190.801†	524.7	2.05	0.39%	[500]	ug/L	
V 292.402†	20570.2	257.63	1.25%	[500]	ug/L	
Zn 206.200†	4108.3	68.81	1.67%	[500]	ug/L	

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Sequence No.: 6                               Autosampler Location: 9
Sample ID: Calib Std 4                       Date Collected: 5/3/2012 9:03:38 AM
Analyst:                                       Data Type: Reprocessed on 5/3/2012 10:09:42 AM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                       Sample Prep Vol:
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Mean Data: Calib Std 4

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
Sc Radial	264959.9	1105.69	0.42%	91.8	%
Sc 361.383	2213340.1	11975.11	0.54%	88.7	%
Al 308.215†	465573.0	585.22	0.13%	[250000]	ug/L
As 188.979†	4208.0	43.16	1.03%	[5000]	ug/L
Ba 233.527†	374331.2	1248.99	0.33%	[5000]	ug/L
Be 234.861†	997036.1	2372.76	0.24%	[5000]	ug/L
Ca 315.887†	1877054.7	5486.84	0.29%	[250000]	ug/L
Cd 226.502†	30438.7	768.22	2.52%	[5000]	ug/L
Co 228.616†	89941.3	1489.08	1.66%	[5000]	ug/L
Cr 267.716†	158413.6	2563.83	1.62%	[5000]	ug/L
Cu 324.752†	1583387.3	4816.44	0.30%	[5000]	ug/L
Fe 259.939†	4598284.4	16023.22	0.35%	[400000]	ug/L
K 766.490†	1178352.8	4665.70	0.40%	[250000]	ug/L
Mg 279.077†	2261244.0	14871.57	0.66%	[250000]	ug/L
Mn 257.610†	2216876.4	7281.89	0.33%	[5000]	ug/L
Mo 202.031†	15847.9	285.06	1.80%	[5000]	ug/L
Na 589.592†	2537701.6	10699.02	0.42%	[250000]	ug/L
Ni 231.604†	42446.6	769.92	1.81%	[5000]	ug/L
Pb 220.353†	7313.3	60.91	0.83%	[5000]	ug/L
Sb 206.836†	7232.1	49.24	0.68%	[5000]	ug/L
Se 196.026†	2887.8	25.16	0.87%	[5000]	ug/L
Sn 189.927†	5104.2	35.39	0.69%	[4000]	ug/L
Sr 421.552†	2476528.0	10765.15	0.43%	[4000]	ug/L
Ti 334.940†	2191162.0	6910.56	0.32%	[4000]	ug/L
Tl 190.801†	4795.3	35.00	0.73%	[5000]	ug/L
V 292.402†	206914.1	4353.92	2.10%	[5000]	ug/L
Zn 206.200†	38791.1	620.56	1.60%	[5000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Wt. Lin	-41.2	127.7	0.00000	1.000000	
Al 308.215	5	Wt. Lin	-4.2	1.732	0.00000	0.998692	
As 188.979	4	Wt. Lin	2.7	0.8094	0.00000	0.999247	
Ba 233.527	5	Wt. Lin	1.7	76.00	0.00000	0.999879	
Be 234.861	5	Wt. Lin	-15.5	187.9	0.00000	0.998958	
Ca 315.887	5	Wt. Lin	84.8	7.281	0.00000	0.999822	
Cd 226.502	5	Wt. Lin	-1.5	6.225	0.00000	0.999641	
Co 228.616	5	Wt. Lin	-1.6	18.74	0.00000	0.999695	
Cr 267.716	4	Wt. Lin	-0.4	32.27	0.00000	0.999899	
Cu 324.752	4	Wt. Lin	-97.4	299.9	0.00000	0.999091	
Fe 259.939	5	Wt. Lin	56.8	12.06	0.00000	0.999550	
K 766.490	5	Wt. Lin	216.5	4.319	0.00000	0.998397	
Mg 279.077	5	Wt. Lin	-4.6	9.077	0.00000	0.999887	
Mn 257.610	4	Wt. Lin	95.6	457.0	0.00000	0.999723	
Mo 202.031	4	Wt. Lin	-2.5	3.218	0.00000	0.999901	
Na 589.592	5	Wt. Lin	70.1	9.621	0.00000	0.999295	
Ni 231.604	4	Wt. Lin	-3.6	8.919	0.00000	0.999291	
Pb 220.353	4	Wt. Lin	-2.4	1.520	0.00000	0.999604	
Sb 206.836	4	Wt. Lin	-0.5	1.437	0.00000	0.999656	
Se 196.026	4	Wt. Lin	-2.4	0.5697	0.00000	0.999896	
Sn 189.927	4	Wt. Lin	5.3	1.234	0.00000	0.998814	
Sr 421.552	5	Wt. Lin	10.1	612.1	0.00000	0.999896	
Ti 334.940	5	Wt. Lin	-3.1	542.6	0.00000	0.999951	
Tl 190.801	4	Wt. Lin	-2.0	1.035	0.00000	0.998314	
V 292.402	5	Wt. Lin	4.9	40.68	0.00000	0.999750	
Zn 206.200	4	Wt. Lin	0.5	8.036	0.00000	0.999660	

Sequence No.: 7

Autosampler Location: 6

Sample ID: ICV

Date Collected: 5/3/2012 9:13:19 AM

Analyst:

Data Type: Reprocessed on 5/3/2012 10:09:43 AM

Logged In Analyst (Original) : inorg

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	289016.3	100 %	0.5			0.50%
Sc 361.383	2453249.0	98.3 %	0.54			0.55%
Ag 328.068†	20666.3	163 ug/L	2.3	163 ug/L	2.3	1.39%
QC value within limits for Ag	328.068	Recovery =	101.66%			
Al 308.215†	70121.5	40500 ug/L	256.1	40500 ug/L	256.1	0.63%
QC value within limits for Al	308.215	Recovery =	101.21%			
As 188.979†	338.3	421 ug/L	2.2	421 ug/L	2.2	0.52%
QC value within limits for As	188.979	Recovery =	105.15%			
Ba 233.527†	92246.5	1210 ug/L	13.4	1210 ug/L	13.4	1.11%
QC value within limits for Ba	233.527	Recovery =	101.05%			
Be 234.861†	79608.7	425 ug/L	2.7	425 ug/L	2.7	0.64%
QC value within limits for Be	234.861	Recovery =	106.15%			
Ca 315.887†	294721.8	40500 ug/L	110.6	40500 ug/L	110.6	0.27%
QC value within limits for Ca	315.887	Recovery =	101.17%			
Cd 226.502†	2631.1	417 ug/L	3.0	417 ug/L	3.0	0.73%
QC value within limits for Cd	226.502	Recovery =	104.24%			
Co 228.616†	7724.1	410 ug/L	2.4	410 ug/L	2.4	0.60%
QC value within limits for Co	228.616	Recovery =	102.53%			
Cr 267.716†	13296.4	413 ug/L	4.5	413 ug/L	4.5	1.09%
QC value within limits for Cr	267.716	Recovery =	103.17%			
Cu 324.752†	122068.4	406 ug/L	6.6	406 ug/L	6.6	1.63%
QC value within limits for Cu	324.752	Recovery =	101.58%			
Fe 259.939†	493084.2	40900 ug/L	218.5	40900 ug/L	218.5	0.53%
QC value within limits for Fe	259.939	Recovery =	102.16%			
K 766.490†	175974.3	40700 ug/L	179.9	40700 ug/L	179.9	0.44%
QC value within limits for K	766.490	Recovery =	101.74%			
Mg 279.077†	366737.8	40400 ug/L	392.8	40400 ug/L	392.8	0.97%
QC value within limits for Mg	279.077	Recovery =	101.01%			
Mn 257.610†	190762.4	417 ug/L	1.8	417 ug/L	1.8	0.43%
QC value within limits for Mn	257.610	Recovery =	104.19%			
Mo 202.031†	1340.6	419 ug/L	2.7	419 ug/L	2.7	0.65%
QC value within limits for Mo	202.031	Recovery =	104.72%			
Na 589.592†	389274.2	40500 ug/L	190.0	40500 ug/L	190.0	0.47%
QC value within limits for Na	589.592	Recovery =	101.14%			
Ni 231.604†	3726.9	417 ug/L	1.7	417 ug/L	1.7	0.41%
QC value within limits for Ni	231.604	Recovery =	104.35%			
Pb 220.353†	633.9	420 ug/L	3.0	420 ug/L	3.0	0.71%
QC value within limits for Pb	220.353	Recovery =	104.91%			
Sb 206.836†	601.8	415 ug/L	4.1	415 ug/L	4.1	0.98%
QC value within limits for Sb	206.836	Recovery =	103.77%			
Se 196.026†	234.6	420 ug/L	10.4	420 ug/L	10.4	2.47%
QC value within limits for Se	196.026	Recovery =	104.96%			
Sn 189.927†	538.1	436 ug/L	3.4	436 ug/L	3.4	0.78%
QC value within limits for Sn	189.927	Recovery =	109.04%			
Sr 421.552†	244040.1	399 ug/L	1.8	399 ug/L	1.8	0.44%
QC value within limits for Sr	421.552	Recovery =	99.66%			
Ti 334.940†	230365.0	425 ug/L	2.0	425 ug/L	2.0	0.48%
QC value within limits for Ti	334.940	Recovery =	106.13%			
Tl 190.801†	427.4	413 ug/L	5.4	413 ug/L	5.4	1.32%
QC value within limits for Tl	190.801	Recovery =	103.14%			
V 292.402†	17273.5	425 ug/L	5.9	425 ug/L	5.9	1.38%
QC value within limits for V	292.402	Recovery =	106.21%			
Zn 206.200†	3427.6	426 ug/L	1.6	426 ug/L	1.6	0.37%
QC value within limits for Zn	206.200	Recovery =	106.61%			

All analyte(s) passed QC.

Sequence No.: 8

Autosampler Location: 1

Sample ID: ICB

Date Collected: 5/3/2012 9:18:28 AM

Analyst:

Data Type: Reprocessed on 5/3/2012 10:09:50 AM

Logged In Analyst (Original) : inorg

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	293110.2	102 %	1.9			1.85%
Sc 361.383	2519922.5	101 %	0.3			0.31%
Ag 328.068†	30.2	0.560 ug/L	0.1962	0.560 ug/L	0.1962	35.03%
QC value within limits for Ag	328.068	Recovery =	Not calculated			
Al 308.215†	27.1	18.1 ug/L	4.42	18.1 ug/L	4.42	24.45%
QC value within limits for Al	308.215	Recovery =	Not calculated			
As 188.979†	2.1	-0.774 ug/L	1.6117	-0.774 ug/L	1.6117	208.35%
QC value within limits for As	188.979	Recovery =	Not calculated			
Ba 233.527†	33.8	0.421 ug/L	0.0294	0.421 ug/L	0.0294	6.98%
QC value within limits for Ba	233.527	Recovery =	Not calculated			
Be 234.861†	47.6	0.336 ug/L	0.0148	0.336 ug/L	0.0148	4.40%
QC value within limits for Be	234.861	Recovery =	Not calculated			
Ca 315.887†	184.0	13.6 ug/L	2.08	13.6 ug/L	2.08	15.24%
QC value within limits for Ca	315.887	Recovery =	Not calculated			
Cd 226.502†	2.4	0.612 ug/L	0.1313	0.612 ug/L	0.1313	21.45%
QC value within limits for Cd	226.502	Recovery =	Not calculated			
Co 228.616†	2.4	0.211 ug/L	0.1267	0.211 ug/L	0.1267	60.19%
QC value within limits for Co	228.616	Recovery =	Not calculated			
Cr 267.716†	8.2	0.268 ug/L	0.1827	0.268 ug/L	0.1827	68.18%
QC value within limits for Cr	267.716	Recovery =	Not calculated			
Cu 324.752†	442.5	1.80 ug/L	0.369	1.80 ug/L	0.369	20.55%
QC value within limits for Cu	324.752	Recovery =	Not calculated			
Fe 259.939†	417.0	29.9 ug/L	4.66	29.9 ug/L	4.66	15.60%
QC value within limits for Fe	259.939	Recovery =	Not calculated			
K 766.490†	157.2	-13.7 ug/L	18.67	-13.7 ug/L	18.67	136.03%
QC value within limits for K	766.490	Recovery =	Not calculated			
Mg 279.077†	154.4	17.5 ug/L	2.19	17.5 ug/L	2.19	12.50%
QC value within limits for Mg	279.077	Recovery =	Not calculated			
Mn 257.610†	81.2	-0.032 ug/L	0.0098	-0.032 ug/L	0.0098	30.67%
QC value within limits for Mn	257.610	Recovery =	Not calculated			
Mo 202.031†	2.6	1.59 ug/L	0.339	1.59 ug/L	0.339	21.30%
QC value within limits for Mo	202.031	Recovery =	Not calculated			
Na 589.592†	281.6	22.0 ug/L	2.83	22.0 ug/L	2.83	12.86%
QC value within limits for Na	589.592	Recovery =	Not calculated			
Ni 231.604†	8.0	1.29 ug/L	0.151	1.29 ug/L	0.151	11.63%
QC value within limits for Ni	231.604	Recovery =	Not calculated			
Pb 220.353†	1.7	2.69 ug/L	1.570	2.69 ug/L	1.570	58.28%
QC value within limits for Pb	220.353	Recovery =	Not calculated			
Sb 206.836†	1.2	1.12 ug/L	1.911	1.12 ug/L	1.911	170.98%
QC value within limits for Sb	206.836	Recovery =	Not calculated			
Se 196.026†	-2.3	0.156 ug/L	3.1374	0.156 ug/L	3.1374	>999.9%
QC value within limits for Se	196.026	Recovery =	Not calculated			
Sn 189.927†	4.8	-0.406 ug/L	1.7711	-0.406 ug/L	1.7711	435.94%
QC value within limits for Sn	189.927	Recovery =	Not calculated			
Sr 421.552†	199.1	0.309 ug/L	0.0397	0.309 ug/L	0.0397	12.85%
QC value within limits for Sr	421.552	Recovery =	Not calculated			
Ti 334.940†	179.9	0.337 ug/L	0.0743	0.337 ug/L	0.0743	22.03%
QC value within limits for Ti	334.940	Recovery =	Not calculated			
Tl 190.801†	1.8	3.65 ug/L	1.962	3.65 ug/L	1.962	53.74%
QC value within limits for Tl	190.801	Recovery =	Not calculated			
V 292.402†	17.0	0.297 ug/L	0.2307	0.297 ug/L	0.2307	77.75%
QC value within limits for V	292.402	Recovery =	Not calculated			
Zn 206.200†	-0.3	-0.092 ug/L	0.5975	-0.092 ug/L	0.5975	646.23%
QC value within limits for Zn	206.200	Recovery =	Not calculated			

All analyte(s) passed QC.

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Sequence No.: 9                               Autosampler Location: 5
Sample ID: AFCEE CRI                         Date Collected: 5/3/2012 9:24:37 AM
Analyst:                                       Data Type: Reprocessed on 5/3/2012 10:09:52 AM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Mean Data: AFCEE CRI

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	288716.4	100.0 %	1.35			1.35%
Sc 361.383	2507126.9	100 %	0.1			0.14%
Ag 328.068†	1134.6	9.21 ug/L	0.439	9.21 ug/L	0.439	4.77%
QC value within limits for Ag	328.068	Recovery = 92.11%				
Al 308.215†	375.4	219 ug/L	4.6	219 ug/L	4.6	2.10%
QC value within limits for Al	308.215	Recovery = 109.63%				
As 188.979†	24.2	26.7 ug/L	1.20	26.7 ug/L	1.20	4.51%
QC value within limits for As	188.979	Recovery = 88.85%				
Ba 233.527†	761.8	10.00 ug/L	0.052	10.00 ug/L	0.052	0.52%
QC value within limits for Ba	233.527	Recovery = 99.98%				
Be 234.861†	726.2	3.95 ug/L	0.014	3.95 ug/L	0.014	0.36%
QC value less than the lower limit for Be	234.861	Recovery = 78.98%				
Ca 315.887†	7322.2	994 ug/L	12.4	994 ug/L	12.4	1.24%
QC value within limits for Ca	315.887	Recovery = 99.40%				
Cd 226.502†	30.2	5.08 ug/L	0.167	5.08 ug/L	0.167	3.30%
QC value within limits for Cd	226.502	Recovery = 101.53%				
Co 228.616†	189.1	10.2 ug/L	0.16	10.2 ug/L	0.16	1.59%
QC value within limits for Co	228.616	Recovery = 101.54%				
Cr 267.716†	316.1	9.81 ug/L	0.194	9.81 ug/L	0.194	1.98%
QC value within limits for Cr	267.716	Recovery = 98.13%				
Cu 324.752†	3118.2	10.7 ug/L	0.09	10.7 ug/L	0.09	0.86%
QC value within limits for Cu	324.752	Recovery = 106.68%				
Fe 259.939†	1018.5	79.7 ug/L	1.19	79.7 ug/L	1.19	1.50%
QC value greater than the upper limit for Fe	259.939	Recovery = 159.42%				
K 766.490†	4147.0	910 ug/L	11.4	910 ug/L	11.4	1.26%
QC value within limits for K	766.490	Recovery = 91.01%				
Mg 279.077†	8961.8	988 ug/L	16.6	988 ug/L	16.6	1.68%
QC value within limits for Mg	279.077	Recovery = 98.78%				
Mn 257.610†	4748.1	10.2 ug/L	0.05	10.2 ug/L	0.05	0.46%
QC value within limits for Mn	257.610	Recovery = 101.79%				
Mo 202.031†	49.0	16.0 ug/L	1.11	16.0 ug/L	1.11	6.94%
QC value within limits for Mo	202.031	Recovery = 106.67%				
Na 589.592†	9510.9	981 ug/L	6.0	981 ug/L	6.0	0.61%
QC value within limits for Na	589.592	Recovery = 98.13%				
Ni 231.604†	183.2	20.9 ug/L	0.04	20.9 ug/L	0.04	0.18%
QC value within limits for Ni	231.604	Recovery = 104.51%				
Pb 220.353†	40.1	28.0 ug/L	1.01	28.0 ug/L	1.01	3.63%
QC value within limits for Pb	220.353	Recovery = 111.83%				
Sb 206.836†	66.0	46.2 ug/L	1.96	46.2 ug/L	1.96	4.25%
QC value within limits for Sb	206.836	Recovery = 92.35%				
Se 196.026†	14.2	29.2 ug/L	8.77	29.2 ug/L	8.77	30.04%
QC value within limits for Se	196.026	Recovery = 97.37%				
Sn 189.927†	14.0	7.17 ug/L	2.020	7.17 ug/L	2.020	28.16%
QC value less than the lower limit for Sn	189.927	Recovery = 71.75%				
Sr 421.552†	3023.9	4.92 ug/L	0.073	4.92 ug/L	0.073	1.48%
QC value within limits for Sr	421.552	Recovery = 98.47%				
Ti 334.940†	2781.5	5.13 ug/L	0.046	5.13 ug/L	0.046	0.89%
QC value within limits for Ti	334.940	Recovery = 102.63%				
Tl 190.801†	60.6	60.4 ug/L	3.38	60.4 ug/L	3.38	5.59%
QC value within limits for Tl	190.801	Recovery = 100.71%				
V 292.402†	404.6	9.84 ug/L	0.063	9.84 ug/L	0.063	0.64%
QC value within limits for V	292.402	Recovery = 98.39%				
Zn 206.200†	178.0	22.1 ug/L	0.10	22.1 ug/L	0.10	0.45%
QC value within limits for Zn	206.200	Recovery = 110.60%				
QC Failed.	Continue with analysis.					

Sequence No.: 10

Autosampler Location: 7

Sample ID: ICSA

Date Collected: 5/3/2012 9:30:48 AM

Analyst:

Data Type: Reprocessed on 5/3/2012 10:09:53 AM

Logged In Analyst (Original) : inorg

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	270921.9	93.8 %	0.05			0.05%
Sc 361.383	2253935.8	90.3 %	0.72			0.80%
Ag 328.068†	-351.8	-0.003 ug/L	0.3771	-0.003 ug/L	0.3771	>999.9%
QC value within limits for Ag	328.068	Recovery =	Not calculated			
Al 308.215†	453157.3	262000 ug/L	987.4	262000 ug/L	987.4	0.38%
QC value within limits for Al	308.215	Recovery =	104.63%			
As 188.979†	-11.8	-0.081 ug/L	8.7120	-0.081 ug/L	8.7120	>999.9%
QC value within limits for As	188.979	Recovery =	Not calculated			
Ba 233.527†	454.9	-0.001 ug/L	0.0674	-0.001 ug/L	0.0674	>999.9%
QC value within limits for Ba	233.527	Recovery =	Not calculated			
Be 234.861†	-867.1	-0.115 ug/L	0.3446	-0.115 ug/L	0.3446	299.33%
QC value within limits for Be	234.861	Recovery =	Not calculated			
Ca 315.887†	1834232.3	252000 ug/L	582.8	252000 ug/L	582.8	0.23%
QC value within limits for Ca	315.887	Recovery =	100.77%			
Cd 226.502†	197.7	-0.034 ug/L	0.5188	-0.034 ug/L	0.5188	>999.9%
QC value within limits for Cd	226.502	Recovery =	Not calculated			
Co 228.616†	116.5	-0.106 ug/L	0.1651	-0.106 ug/L	0.1651	156.05%
QC value within limits for Co	228.616	Recovery =	Not calculated			
Cr 267.716†	-66.2	0.612 ug/L	0.3547	0.612 ug/L	0.3547	57.93%
QC value within limits for Cr	267.716	Recovery =	Not calculated			
Cu 324.752†	-92.2	0.012 ug/L	0.2444	0.012 ug/L	0.2444	>999.9%
QC value within limits for Cu	324.752	Recovery =	Not calculated			
Fe 259.939†	2664598.9	221000 ug/L	650.0	221000 ug/L	650.0	0.29%
QC value within limits for Fe	259.939	Recovery =	98.16%			
K 766.490†	-173.7	-90.3 ug/L	15.97	-90.3 ug/L	15.97	17.68%
Mg 279.077†	2321659.1	256000 ug/L	490.9	256000 ug/L	490.9	0.19%
QC value within limits for Mg	279.077	Recovery =	102.31%			
Mn 257.610†	1201.1	-0.010 ug/L	0.1604	-0.010 ug/L	0.1604	>999.9%
QC value within limits for Mn	257.610	Recovery =	Not calculated			
Mo 202.031†	-26.8	0.835 ug/L	1.8010	0.835 ug/L	1.8010	215.78%
QC value within limits for Mo	202.031	Recovery =	Not calculated			
Na 589.592†	292.1	23.1 ug/L	3.52	23.1 ug/L	3.52	15.23%
Ni 231.604†	33.8	-0.442 ug/L	0.7587	-0.442 ug/L	0.7587	171.58%
QC value within limits for Ni	231.604	Recovery =	Not calculated			
Pb 220.353†	-14.0	-0.170 ug/L	7.5940	-0.170 ug/L	7.5940	>999.9%
QC value within limits for Pb	220.353	Recovery =	Not calculated			
Sb 206.836†	10.4	0.501 ug/L	4.7836	0.501 ug/L	4.7836	954.85%
QC value within limits for Sb	206.836	Recovery =	Not calculated			
Se 196.026†	-12.5	2.66 ug/L	4.446	2.66 ug/L	4.446	166.84%
QC value within limits for Se	196.026	Recovery =	Not calculated			
Sn 189.927†	-15.6	-0.400 ug/L	6.1767	-0.400 ug/L	6.1767	>999.9%
QC value within limits for Sn	189.927	Recovery =	Not calculated			
Sr 421.552†	642.2	1.03 ug/L	0.020	1.03 ug/L	0.020	1.93%
QC value within limits for Sr	421.552	Recovery =	Not calculated			
Ti 334.940†	-18.0	-0.027 ug/L	0.1164	-0.027 ug/L	0.1164	424.69%
QC value within limits for Ti	334.940	Recovery =	Not calculated			
Tl 190.801†	-1.9	3.64 ug/L	6.968	3.64 ug/L	6.968	191.66%
QC value within limits for Tl	190.801	Recovery =	Not calculated			
V 292.402†	64.8	-0.075 ug/L	0.2378	-0.075 ug/L	0.2378	315.95%
QC value within limits for V	292.402	Recovery =	Not calculated			
Zn 206.200†	87.7	3.56 ug/L	0.718	3.56 ug/L	0.718	20.19%
QC value within limits for Zn	206.200	Recovery =	Not calculated			

All analyte(s) passed QC.

Sequence No.: 11

Autosampler Location: 8

Sample ID: ICSAB

Date Collected: 5/3/2012 9:36:06 AM

Analyst:

Data Type: Reprocessed on 5/3/2012 10:09:54 AM

Logged In Analyst (Original) : inorg

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	275888.1	95.5 %	0.38			0.40%
Sc 361.383	2343205.3	93.9 %	0.37			0.40%
Ag 328.068†	25018.1	199 ug/L	4.2	199 ug/L	4.2	2.11%
QC value within limits for Ag	328.068	Recovery = 99.34%				
Al 308.215†	446738.3	258000 ug/L	603.3	258000 ug/L	603.3	0.23%
QC value within limits for Al	308.215	Recovery = 103.15%				
As 188.979†	72.0	106 ug/L	4.5	106 ug/L	4.5	4.28%
QC value within limits for As	188.979	Recovery = 106.31%				
Ba 233.527†	37829.6	492 ug/L	8.5	492 ug/L	8.5	1.73%
QC value within limits for Ba	233.527	Recovery = 98.37%				
Be 234.861†	97811.1	525 ug/L	1.4	525 ug/L	1.4	0.27%
QC value within limits for Be	234.861	Recovery = 105.00%				
Ca 315.887†	1807958.5	248000 ug/L	403.0	248000 ug/L	403.0	0.16%
QC value within limits for Ca	315.887	Recovery = 99.32%				
Cd 226.502†	6151.9	957 ug/L	6.8	957 ug/L	6.8	0.72%
QC value within limits for Cd	226.502	Recovery = 95.69%				
Co 228.616†	9109.5	479 ug/L	2.3	479 ug/L	2.3	0.48%
QC value within limits for Co	228.616	Recovery = 95.73%				
Cr 267.716†	15578.5	486 ug/L	8.2	486 ug/L	8.2	1.69%
QC value within limits for Cr	267.716	Recovery = 97.11%				
Cu 324.752†	153505.8	511 ug/L	8.1	511 ug/L	8.1	1.59%
QC value within limits for Cu	324.752	Recovery = 102.20%				
Fe 259.939†	2623066.3	217000 ug/L	443.4	217000 ug/L	443.4	0.20%
QC value within limits for Fe	259.939	Recovery = 96.63%				
K 766.490†	-60.8	-64.2 ug/L	8.83	-64.2 ug/L	8.83	13.75%
Mg 279.077†	2289539.6	252000 ug/L	1085.7	252000 ug/L	1085.7	0.43%
QC value within limits for Mg	279.077	Recovery = 100.89%				
Mn 257.610†	227506.7	495 ug/L	1.3	495 ug/L	1.3	0.26%
QC value within limits for Mn	257.610	Recovery = 99.04%				
Mo 202.031†	1567.1	496 ug/L	4.6	496 ug/L	4.6	0.93%
QC value within limits for Mo	202.031	Recovery = 99.19%				
Na 589.592†	250.3	18.7 ug/L	0.57	18.7 ug/L	0.57	3.03%
Ni 231.604†	8629.6	964 ug/L	3.8	964 ug/L	3.8	0.39%
QC value within limits for Ni	231.604	Recovery = 96.37%				
Pb 220.353†	58.3	47.7 ug/L	2.84	47.7 ug/L	2.84	5.94%
QC value within limits for Pb	220.353	Recovery = 95.46%				
Sb 206.836†	895.3	613 ug/L	11.2	613 ug/L	11.2	1.82%
QC value within limits for Sb	206.836	Recovery = 102.20%				
Se 196.026†	19.2	58.7 ug/L	10.80	58.7 ug/L	10.80	18.42%
QC value within limits for Se	196.026	Recovery = 117.30%				
Sn 189.927†	642.7	535 ug/L	6.0	535 ug/L	6.0	1.12%
QC value within limits for Sn	189.927	Recovery = 107.05%				
Sr 421.552†	298728.6	488 ug/L	1.5	488 ug/L	1.5	0.31%
QC value within limits for Sr	421.552	Recovery = 97.60%				
Ti 334.940†	276680.7	510 ug/L	8.1	510 ug/L	8.1	1.59%
QC value within limits for Ti	334.940	Recovery = 101.98%				
Tl 190.801†	96.4	95.0 ug/L	5.93	95.0 ug/L	5.93	6.25%
QC value within limits for Tl	190.801	Recovery = 94.99%				
V 292.402†	20545.5	504 ug/L	10.4	504 ug/L	10.4	2.06%
QC value within limits for V	292.402	Recovery = 100.83%				
Zn 206.200†	7778.0	962 ug/L	7.1	962 ug/L	7.1	0.74%
QC value within limits for Zn	206.200	Recovery = 96.22%				

All analyte(s) passed QC.

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Sequence No.: 12                               Autosampler Location: 4
Sample ID: CCV                                 Date Collected: 5/3/2012 9:41:25 AM
Analyst:                                       Data Type: Reprocessed on 5/3/2012 10:09:55 AM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	278609.6	96.5 %	0.89			0.93%
Sc 361.383	2397254.3	96.1 %	1.55			1.61%
Ag 328.068†	66523.8	522 ug/L	7.8	522 ug/L	7.8	1.50%
QC value within limits for Ag	328.068	Recovery =	104.37%			
Al 308.215†	44851.8	25900 ug/L	83.9	25900 ug/L	83.9	0.32%
QC value within limits for Al	308.215	Recovery =	103.60%			
As 188.979†	424.6	528 ug/L	7.5	528 ug/L	7.5	1.43%
QC value within limits for As	188.979	Recovery =	105.60%			
Ba 233.527†	39939.8	524 ug/L	6.9	524 ug/L	6.9	1.33%
QC value within limits for Ba	233.527	Recovery =	104.87%			
Be 234.861†	98687.5	526 ug/L	2.7	526 ug/L	2.7	0.51%
QC value within limits for Be	234.861	Recovery =	105.24%			
Ca 315.887†	189450.8	26000 ug/L	43.1	26000 ug/L	43.1	0.17%
QC value within limits for Ca	315.887	Recovery =	104.04%			
Cd 226.502†	3327.1	529 ug/L	11.7	529 ug/L	11.7	2.22%
QC value within limits for Cd	226.502	Recovery =	105.71%			
Co 228.616†	9948.9	529 ug/L	6.5	529 ug/L	6.5	1.23%
QC value within limits for Co	228.616	Recovery =	105.75%			
Cr 267.716†	16847.8	523 ug/L	5.8	523 ug/L	5.8	1.11%
QC value within limits for Cr	267.716	Recovery =	104.55%			
Cu 324.752†	152137.9	506 ug/L	2.8	506 ug/L	2.8	0.54%
QC value within limits for Cu	324.752	Recovery =	101.27%			
Fe 259.939†	512599.1	42500 ug/L	140.9	42500 ug/L	140.9	0.33%
QC value within limits for Fe	259.939	Recovery =	106.21%			
K 766.490†	111005.8	25700 ug/L	82.1	25700 ug/L	82.1	0.32%
QC value within limits for K	766.490	Recovery =	102.61%			
Mg 279.077†	241453.4	26600 ug/L	56.8	26600 ug/L	56.8	0.21%
QC value within limits for Mg	279.077	Recovery =	106.41%			
Mn 257.610†	239189.9	523 ug/L	2.8	523 ug/L	2.8	0.54%
QC value within limits for Mn	257.610	Recovery =	104.54%			
Mo 202.031†	1677.1	523 ug/L	10.1	523 ug/L	10.1	1.93%
QC value within limits for Mo	202.031	Recovery =	104.69%			
Na 589.592†	249134.1	25900 ug/L	56.5	25900 ug/L	56.5	0.22%
QC value within limits for Na	589.592	Recovery =	103.55%			
Ni 231.604†	4709.0	527 ug/L	11.1	527 ug/L	11.1	2.10%
QC value within limits for Ni	231.604	Recovery =	105.49%			
Pb 220.353†	802.8	530 ug/L	11.0	530 ug/L	11.0	2.08%
QC value within limits for Pb	220.353	Recovery =	105.90%			
Sb 206.836†	768.1	530 ug/L	7.7	530 ug/L	7.7	1.46%
QC value within limits for Sb	206.836	Recovery =	105.95%			
Se 196.026†	294.1	523 ug/L	1.1	523 ug/L	1.1	0.20%
QC value within limits for Se	196.026	Recovery =	104.63%			
Sn 189.927†	535.3	432 ug/L	8.3	432 ug/L	8.3	1.92%
QC value within limits for Sn	189.927	Recovery =	108.07%			
Sr 421.552†	254392.8	416 ug/L	0.6	416 ug/L	0.6	0.14%
QC value within limits for Sr	421.552	Recovery =	103.89%			
Ti 334.940†	226487.3	417 ug/L	3.2	417 ug/L	3.2	0.76%
QC value within limits for Ti	334.940	Recovery =	104.35%			
Tl 190.801†	547.6	528 ug/L	10.5	528 ug/L	10.5	1.99%
QC value within limits for Tl	190.801	Recovery =	105.56%			
V 292.402†	21513.4	529 ug/L	9.9	529 ug/L	9.9	1.87%
QC value within limits for V	292.402	Recovery =	105.84%			
Zn 206.200†	4310.1	537 ug/L	11.3	537 ug/L	11.3	2.11%
QC value within limits for Zn	206.200	Recovery =	107.31%			

All analyte(s) passed QC.


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Sequence No.: 13                               Autosampler Location: 1
Sample ID: CCB                                 Date Collected: 5/3/2012 9:46:38 AM
Analyst:                                       Data Type: Reprocessed on 5/3/2012 10:09:56 AM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	293619.0	102 %	4.9			4.86%
Sc 361.383	2545227.4	102 %	2.1			2.04%
Ag 328.068†	41.2	0.646 ug/L	0.2057	0.646 ug/L	0.2057	31.83%
QC value within limits for Ag	328.068	Recovery =	Not calculated			
Al 308.215†	50.6	31.7 ug/L	8.50	31.7 ug/L	8.50	26.84%
QC value within limits for Al	308.215	Recovery =	Not calculated			
As 188.979†	3.2	0.536 ug/L	2.9300	0.536 ug/L	2.9300	547.03%
QC value within limits for As	188.979	Recovery =	Not calculated			
Ba 233.527†	14.1	0.162 ug/L	0.0552	0.162 ug/L	0.0552	34.01%
QC value within limits for Ba	233.527	Recovery =	Not calculated			
Be 234.861†	26.4	0.224 ug/L	0.0197	0.224 ug/L	0.0197	8.80%
QC value within limits for Be	234.861	Recovery =	Not calculated			
Ca 315.887†	271.4	25.6 ug/L	4.23	25.6 ug/L	4.23	16.49%
QC value within limits for Ca	315.887	Recovery =	Not calculated			
Cd 226.502†	2.0	0.553 ug/L	0.2902	0.553 ug/L	0.2902	52.51%
QC value within limits for Cd	226.502	Recovery =	Not calculated			
Co 228.616†	3.3	0.257 ug/L	0.2368	0.257 ug/L	0.2368	92.31%
QC value within limits for Co	228.616	Recovery =	Not calculated			
Cr 267.716†	-0.3	0.004 ug/L	0.1835	0.004 ug/L	0.1835	>999.9%
QC value within limits for Cr	267.716	Recovery =	Not calculated			
Cu 324.752†	279.4	1.26 ug/L	0.277	1.26 ug/L	0.277	22.03%
QC value within limits for Cu	324.752	Recovery =	Not calculated			
Fe 259.939†	483.9	35.4 ug/L	5.15	35.4 ug/L	5.15	14.56%
QC value within limits for Fe	259.939	Recovery =	Not calculated			
K 766.490†	262.0	10.5 ug/L	13.70	10.5 ug/L	13.70	129.93%
QC value within limits for K	766.490	Recovery =	Not calculated			
Mg 279.077†	237.3	26.6 ug/L	3.03	26.6 ug/L	3.03	11.35%
QC value within limits for Mg	279.077	Recovery =	Not calculated			
Mn 257.610†	13.0	-0.181 ug/L	0.0276	-0.181 ug/L	0.0276	15.23%
QC value within limits for Mn	257.610	Recovery =	Not calculated			
Mo 202.031†	2.6	1.60 ug/L	0.381	1.60 ug/L	0.381	23.88%
QC value within limits for Mo	202.031	Recovery =	Not calculated			
Na 589.592†	127.9	6.01 ug/L	3.155	6.01 ug/L	3.155	52.49%
QC value within limits for Na	589.592	Recovery =	Not calculated			
Ni 231.604†	3.5	0.791 ug/L	0.1690	0.791 ug/L	0.1690	21.37%
QC value within limits for Ni	231.604	Recovery =	Not calculated			
Pb 220.353†	-0.9	1.02 ug/L	0.328	1.02 ug/L	0.328	32.19%
QC value within limits for Pb	220.353	Recovery =	Not calculated			
Sb 206.836†	0.3	0.506 ug/L	1.8476	0.506 ug/L	1.8476	365.26%
QC value within limits for Sb	206.836	Recovery =	Not calculated			
Se 196.026†	-0.1	4.07 ug/L	2.816	4.07 ug/L	2.816	69.20%
QC value within limits for Se	196.026	Recovery =	Not calculated			
Sn 189.927†	2.9	-1.99 ug/L	3.621	-1.99 ug/L	3.621	181.63%
QC value within limits for Sn	189.927	Recovery =	Not calculated			
Sr 421.552†	102.4	0.151 ug/L	0.0267	0.151 ug/L	0.0267	17.72%
QC value within limits for Sr	421.552	Recovery =	Not calculated			
Ti 334.940†	88.4	0.169 ug/L	0.0452	0.169 ug/L	0.0452	26.81%
QC value within limits for Ti	334.940	Recovery =	Not calculated			
Tl 190.801†	-0.7	1.31 ug/L	0.909	1.31 ug/L	0.909	69.23%
QC value within limits for Tl	190.801	Recovery =	Not calculated			
V 292.402†	3.4	-0.036 ug/L	0.0942	-0.036 ug/L	0.0942	263.61%
QC value within limits for V	292.402	Recovery =	Not calculated			
Zn 206.200†	0.9	0.058 ug/L	0.1054	0.058 ug/L	0.1054	181.73%
QC value within limits for Zn	206.200	Recovery =	Not calculated			

All analyte(s) passed QC.

=====
Analysis Begun

Start Time: 5/3/2012 10:47:35 AM Plasma On Time: 5/3/2012 7:01:24 AM
Logged In Analyst: inorg Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N3112401Autosampler Model: AS-93plus

Sample Information File: D:\pe\inorg\Sample Information\050312A.sif
Batch ID: 050312A
Results Data Set: 050312A-1
Results Library: d:\pe\inorg\Results\Results.mdb

=====
Sequence No.: 1 Autosampler Location: 6
Sample ID: ICV Date Collected: 5/3/2012 10:47:37 AM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
User canceled analysis.

=====
Analysis Begun

Start Time: 5/3/2012 10:48:04 AM Plasma On Time: 5/3/2012 7:01:24 AM
Logged In Analyst: inorg Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N3112401Autosampler Model: AS-93plus

Sample Information File: D:\pe\inorg\Sample Information\050312A.sif
Batch ID: 050312A
Results Data Set: 050312A-1
Results Library: d:\pe\inorg\Results\Results.mdb

=====
Sequence No.: 8 Autosampler Location: 38
Sample ID: 350576501 Date Collected: 5/3/2012 10:48:04 AM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: 5X Sample Prep Vol:

Mean Data: 350576501

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	276121.1	95.6 %	0.40			0.42%
Sc 361.383	2313709.8	92.7 %	0.44			0.48%
Ag 328.068†	-108.6	-0.528 ug/L	0.1622	-2.64 ug/L	0.811	30.75%
Al 308.215†	31.3	20.5 ug/L	6.80	103 ug/L	34.0	33.18%
As 188.979†	2.8	0.055 ug/L	5.7231	0.276 ug/L	28.6155	>999.9%
Ba 233.527†	404.0	5.29 ug/L	0.055	26.5 ug/L	0.27	1.03%
Be 234.861†	-20.0	-0.024 ug/L	0.0010	-0.119 ug/L	0.0049	4.11%
Ca 315.887†	790855.6	109000 ug/L	1287.6	543000 ug/L	6438.2	1.19%
Cd 226.502†	-0.4	0.169 ug/L	0.3457	0.846 ug/L	1.7286	204.31%
Co 228.616†	-9.5	-0.425 ug/L	0.2536	-2.13 ug/L	1.268	59.68%
Cr 267.716†	42.8	1.34 ug/L	0.562	6.70 ug/L	2.808	41.92%
Cu 324.752†	658.9	2.52 ug/L	0.180	12.6 ug/L	0.90	7.15%
Fe 259.939†	186.8	10.8 ug/L	0.62	53.9 ug/L	3.12	5.80%
K 766.490†	22556.8	5170 ug/L	66.2	25900 ug/L	330.8	1.28%
Mg 279.077†	331920.3	36600 ug/L	143.1	183000 ug/L	715.7	0.39%
Mn 257.610†	562.2	1.02 ug/L	0.018	5.10 ug/L	0.090	1.76%
Mo 202.031†	-9.0	-2.00 ug/L	0.870	-10.0 ug/L	4.35	43.49%
Na 589.592†	1932905.6	201000 ug/L	1955.3	1000000 ug/L	9776.5	0.97%
Ni 231.604†	-6.1	-0.277 ug/L	0.1625	-1.38 ug/L	0.813	58.70%
Pb 220.353†	2.1	2.96 ug/L	3.045	14.8 ug/L	15.22	103.01%
Sb 206.836†	-1.5	-0.723 ug/L	1.3251	-3.62 ug/L	6.625	183.24%
Se 196.026†	2.4	17.1 ug/L	7.13	85.7 ug/L	35.67	41.64%
Sn 189.927†	-15.8	-5.72 ug/L	1.661	-28.6 ug/L	8.30	29.06%
Sr 421.552†	1447175.1	2360 ug/L	24.3	11800 ug/L	121.7	1.03%
Ti 334.940†	-152.1	-0.275 ug/L	0.0915	-1.37 ug/L	0.458	33.34%
Tl 190.801†	3.0	4.85 ug/L	1.051	24.2 ug/L	5.25	21.68%
V 292.402†	52.4	1.17 ug/L	0.137	5.85 ug/L	0.687	11.74%
Zn 206.200†	17.1	2.07 ug/L	0.149	10.4 ug/L	0.74	7.17%

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=====
Sequence No.: 9                               Autosampler Location: 39
Sample ID: 350576501L                         Date Collected: 5/3/2012 10:54:25 AM
Analyst:                                       Data Type: Original
Initial Sample Wt:                             Initial Sample Vol:
Dilution: 25X                                 Sample Prep Vol:
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Mean Data: 350576501L

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
Sc Radial	283727.6	98.3 %		0.81			0.82%
Sc 361.383	2397596.0	96.1 %		0.39			0.41%
Ag 328.068†	-21.3	0.156 ug/L		0.2259	3.91 ug/L	5.647	144.41%
Al 308.215†	13.9	10.5 ug/L		3.44	262 ug/L	86.1	32.88%
As 188.979†	3.2	0.644 ug/L		4.0501	16.1 ug/L	101.25	629.32%
Ba 233.527†	88.6	1.14 ug/L		0.091	28.6 ug/L	2.27	7.96%
Be 234.861†	-18.4	-0.015 ug/L		0.0189	-0.384 ug/L	0.4725	123.00%
Ca 315.887†	157391.4	21600 ug/L		49.4	540000 ug/L	1234.3	0.23%
Cd 226.502†	-2.7	-0.202 ug/L		0.3608	-5.06 ug/L	9.020	178.23%
Co 228.616†	-8.7	-0.380 ug/L		0.3535	-9.50 ug/L	8.838	93.05%
Cr 267.716†	15.9	0.506 ug/L		0.2622	12.7 ug/L	6.55	51.78%
Cu 324.752†	395.6	1.64 ug/L		0.220	41.1 ug/L	5.50	13.40%
Fe 259.939†	182.8	10.4 ug/L		0.63	261 ug/L	15.6	5.99%
K 766.490†	4723.4	1040 ug/L		12.8	26100 ug/L	319.0	1.22%
Mg 279.077†	66684.4	7350 ug/L		97.4	184000 ug/L	2434.9	1.33%
Mn 257.610†	155.6	0.131 ug/L		0.0233	3.28 ug/L	0.582	17.72%
Mo 202.031†	-2.2	0.102 ug/L		0.3491	2.54 ug/L	8.728	343.03%
Na 589.592†	379806.5	39500 ug/L		165.5	987000 ug/L	4136.9	0.42%
Ni 231.604†	-3.2	0.049 ug/L		0.5066	1.21 ug/L	12.666	>999.9%
Pb 220.353†	2.1	2.95 ug/L		0.191	73.6 ug/L	4.78	6.49%
Sb 206.836†	2.0	1.74 ug/L		1.788	43.5 ug/L	44.69	102.66%
Se 196.026†	-2.2	2.11 ug/L		3.932	52.7 ug/L	98.29	186.44%
Sn 189.927†	-6.7	-7.45 ug/L		2.285	-186 ug/L	57.1	30.66%
Sr 421.552†	290094.7	474 ug/L		2.4	11800 ug/L	59.2	0.50%
Ti 334.940†	-15.4	-0.023 ug/L		0.0522	-0.567 ug/L	1.3045	229.91%
Tl 190.801†	1.4	3.31 ug/L		0.476	82.8 ug/L	11.91	14.38%
V 292.402†	16.6	0.288 ug/L		0.2423	7.19 ug/L	6.057	84.21%
Zn 206.200†	15.1	1.82 ug/L		0.254	45.4 ug/L	6.35	13.98%

Sequence No.: 10
 Sample ID: 127437MS
 Analyst:
 Initial Sample Wt:
 Dilution: 5X

Autosampler Location: 40
 Date Collected: 5/3/2012 11:00:36 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 127437MS

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	284436.2	98.5 %	0.28			0.29%
Sc 361.383	2431399.6	97.4 %	0.98			1.00%
Ag 328.068†	4752.0	37.7 ug/L	0.60	188 ug/L	3.0	1.60%
Al 308.215†	17399.4	10000 ug/L	20.5	50200 ug/L	102.4	0.20%
As 188.979†	89.3	108 ug/L	3.9	542 ug/L	19.6	3.61%
Ba 233.527†	22368.7	294 ug/L	1.1	1470 ug/L	5.7	0.39%
Be 234.861†	19055.7	102 ug/L	0.5	509 ug/L	2.5	0.50%
Ca 315.887†	812956.1	112000 ug/L	1131.9	558000 ug/L	5659.3	1.01%
Cd 226.502†	614.5	97.5 ug/L	2.04	487 ug/L	10.2	2.09%
Co 228.616†	1803.7	95.8 ug/L	1.24	479 ug/L	6.2	1.30%
Cr 267.716†	3129.4	97.1 ug/L	1.47	486 ug/L	7.3	1.51%
Cu 324.752†	29530.3	98.5 ug/L	0.62	493 ug/L	3.1	0.63%
Fe 259.939†	120783.9	10000 ug/L	60.6	50000 ug/L	302.9	0.61%
K 766.490†	65668.2	15200 ug/L	63.4	75800 ug/L	317.0	0.42%
Mg 279.077†	402795.6	44400 ug/L	272.4	222000 ug/L	1362.1	0.61%
Mn 257.610†	45499.4	99.2 ug/L	0.32	496 ug/L	1.6	0.33%
Mo 202.031†	310.9	97.8 ug/L	2.30	489 ug/L	11.5	2.36%
Na 589.592†	1906974.4	198000 ug/L	2617.3	991000 ug/L	13086.4	1.32%
Ni 231.604†	873.4	98.1 ug/L	1.98	491 ug/L	9.9	2.02%
Pb 220.353†	147.1	98.6 ug/L	5.33	493 ug/L	26.7	5.41%
Sb 206.836†	141.3	97.7 ug/L	2.14	489 ug/L	10.7	2.19%
Se 196.026†	64.2	126 ug/L	7.7	630 ug/L	38.7	6.14%
Sn 189.927†	115.3	101 ug/L	5.5	504 ug/L	27.5	5.45%
Sr 421.552†	1407960.9	2300 ug/L	30.9	11500 ug/L	154.4	1.34%
Ti 334.940†	55236.8	102 ug/L	0.2	509 ug/L	1.2	0.23%
Tl 190.801†	99.6	97.7 ug/L	3.22	488 ug/L	16.1	3.30%
V 292.402†	4086.1	100 ug/L	1.7	502 ug/L	8.4	1.68%
Zn 206.200†	806.2	100 ug/L	1.7	501 ug/L	8.3	1.66%

Sequence No.: 11
 Sample ID: 127438MSD
 Analyst:
 Initial Sample Wt:
 Dilution: 5X

Autosampler Location: 41
 Date Collected: 5/3/2012 11:05:53 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 127438MSD

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	285000.6	98.7 %	0.78			0.79%
Sc 361.383	2400872.6	96.2 %	1.04			1.08%
Ag 328.068†	4718.8	37.4 ug/L	0.51	187 ug/L	2.5	1.35%
Al 308.215†	17281.1	9980 ug/L	42.3	49900 ug/L	211.6	0.42%
As 188.979†	88.5	107 ug/L	2.3	537 ug/L	11.4	2.12%
Ba 233.527†	22258.7	293 ug/L	3.9	1460 ug/L	19.4	1.33%
Be 234.861†	18975.1	101 ug/L	1.6	506 ug/L	7.8	1.53%
Ca 315.887†	825288.3	113000 ug/L	907.2	567000 ug/L	4536.2	0.80%
Cd 226.502†	616.9	97.9 ug/L	1.50	489 ug/L	7.5	1.53%
Co 228.616†	1806.2	95.9 ug/L	1.00	480 ug/L	5.0	1.04%
Cr 267.716†	3139.6	97.5 ug/L	1.33	487 ug/L	6.7	1.37%
Cu 324.752†	29438.1	98.2 ug/L	1.17	491 ug/L	5.9	1.19%
Fe 259.939†	120626.8	9990 ug/L	25.1	50000 ug/L	125.5	0.25%
K 766.490†	65725.7	15200 ug/L	63.8	75800 ug/L	318.9	0.42%
Mg 279.077†	404546.1	44600 ug/L	392.3	223000 ug/L	1961.5	0.88%
Mn 257.610†	45210.8	98.6 ug/L	1.09	493 ug/L	5.4	1.10%
Mo 202.031†	308.2	96.9 ug/L	0.46	485 ug/L	2.3	0.47%
Na 589.592†	1938173.8	201000 ug/L	1973.5	1010000 ug/L	9867.3	0.98%
Ni 231.604†	868.6	97.6 ug/L	0.77	488 ug/L	3.8	0.79%
Pb 220.353†	155.5	104 ug/L	3.3	521 ug/L	16.3	3.14%
Sb 206.836†	145.8	101 ug/L	1.1	504 ug/L	5.7	1.14%
Se 196.026†	54.0	108 ug/L	2.2	541 ug/L	11.2	2.07%
Sn 189.927†	114.4	100 ug/L	1.6	502 ug/L	8.1	1.62%
Sr 421.552†	1430292.1	2340 ug/L	22.4	11700 ug/L	112.1	0.96%
Ti 334.940†	55091.4	102 ug/L	1.5	508 ug/L	7.4	1.46%
Tl 190.801†	101.3	99.3 ug/L	0.49	496 ug/L	2.5	0.50%
V 292.402†	4096.5	101 ug/L	1.6	503 ug/L	7.9	1.57%
Zn 206.200†	800.6	99.5 ug/L	1.31	498 ug/L	6.5	1.31%

Sequence No.: 12
 Sample ID: 350576501A
 Analyst:
 Initial Sample Wt:
 Dilution: 5X

Autosampler Location: 42
 Date Collected: 5/3/2012 11:11:12 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350576501A

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	271873.8	94.2 %	0.45			0.47%
Sc 361.383	2294914.1	92.0 %	0.62			0.68%
Ag 328.068†	27371.1	215 ug/L	2.2	1080 ug/L	11.2	1.04%
Al 308.215†	94375.5	54500 ug/L	235.2	272000 ug/L	1176.0	0.43%
As 188.979†	442.9	552 ug/L	1.9	2760 ug/L	9.7	0.35%
Ba 233.527†	119843.9	1580 ug/L	14.9	7880 ug/L	74.4	0.94%
Be 234.861†	107773.2	575 ug/L	4.6	2870 ug/L	23.0	0.80%
Ca 315.887†	1181403.6	162000 ug/L	921.3	811000 ug/L	4606.3	0.57%
Cd 226.502†	3384.6	536 ug/L	6.4	2680 ug/L	32.0	1.19%
Co 228.616†	9862.4	524 ug/L	5.2	2620 ug/L	26.0	0.99%
Cr 267.716†	17224.3	535 ug/L	3.3	2670 ug/L	16.5	0.62%
Cu 324.752†	163798.5	545 ug/L	4.8	2730 ug/L	24.2	0.89%
Fe 259.939†	642043.1	53200 ug/L	342.4	266000 ug/L	1711.9	0.64%
K 766.490†	261990.0	60600 ug/L	500.8	303000 ug/L	2504.0	0.83%
Mg 279.077†	810263.4	89300 ug/L	858.5	446000 ug/L	4292.4	0.96%
Mn 257.610†	249803.5	546 ug/L	4.3	2730 ug/L	21.3	0.78%
Mo 202.031†	1727.2	539 ug/L	4.1	2700 ug/L	20.3	0.75%
Na 589.592†	2459996.0	256000 ug/L	1642.9	1280000 ug/L	8214.5	0.64%
Ni 231.604†	4737.8	530 ug/L	4.1	2650 ug/L	20.6	0.77%
Pb 220.353†	822.5	544 ug/L	8.6	2720 ug/L	43.1	1.58%
Sb 206.836†	702.3	484 ug/L	3.2	2420 ug/L	16.0	0.66%
Se 196.026†	309.5	561 ug/L	9.5	2810 ug/L	47.7	1.70%
Sn 189.927†	678.6	563 ug/L	6.8	2810 ug/L	33.8	1.20%
Sr 421.552†	1759341.6	2870 ug/L	20.6	14400 ug/L	103.0	0.72%
Ti 334.940†	300596.0	554 ug/L	5.2	2770 ug/L	25.9	0.94%
Tl 190.801†	544.6	525 ug/L	5.0	2630 ug/L	25.1	0.96%
V 292.402†	22708.7	559 ug/L	5.3	2790 ug/L	26.7	0.96%
Zn 206.200†	4348.8	541 ug/L	3.8	2710 ug/L	19.2	0.71%

Sequence No.: 13
 Sample ID: 350576503
 Analyst:
 Initial Sample Wt:
 Dilution: 5X

Autosampler Location: 43
 Date Collected: 5/3/2012 11:16:31 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350576503

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	279532.0		96.8 %	0.80			0.83%
Sc 361.383	2408460.0		96.5 %	0.47			0.49%
Ag 328.068†	-39.8		0.011 ug/L	0.0641	0.056 ug/L	0.3206	568.58%
Al 308.215†	55.5		34.5 ug/L	7.95	173 ug/L	39.8	23.01%
As 188.979†	3.3		0.690 ug/L	1.0729	3.45 ug/L	5.365	155.56%
Ba 233.527†	581.0		7.62 ug/L	0.081	38.1 ug/L	0.40	1.06%
Be 234.861†	9.6		0.134 ug/L	0.0224	0.671 ug/L	0.1119	16.69%
Ca 315.887†	73879.7		10100 ug/L	21.1	50700 ug/L	105.5	0.21%
Cd 226.502†	-0.3		0.183 ug/L	0.1309	0.913 ug/L	0.6546	71.72%
Co 228.616†	1.5		0.157 ug/L	0.1433	0.786 ug/L	0.7163	91.17%
Cr 267.716†	25.7		0.810 ug/L	0.3274	4.05 ug/L	1.637	40.39%
Cu 324.752†	650.8		2.48 ug/L	0.320	12.4 ug/L	1.60	12.91%
Fe 259.939†	423.1		30.4 ug/L	1.25	152 ug/L	6.3	4.12%
K 766.490†	5896.0		1320 ug/L	25.7	6580 ug/L	128.6	1.96%
Mg 279.077†	21605.8		2380 ug/L	26.2	11900 ug/L	130.9	1.10%
Mn 257.610†	632.8		1.18 ug/L	0.013	5.88 ug/L	0.067	1.14%
Mo 202.031†	25.9		8.82 ug/L	0.694	44.1 ug/L	3.47	7.87%
Na 589.592†	1219031.7		127000 ug/L	415.8	633000 ug/L	2079.0	0.33%
Ni 231.604†	226.2		25.8 ug/L	0.45	129 ug/L	2.3	1.75%
Pb 220.353†	-1.5		0.606 ug/L	1.6381	3.03 ug/L	8.191	270.15%
Sb 206.836†	-0.1		0.256 ug/L	1.0503	1.28 ug/L	5.251	409.76%
Se 196.026†	1.0		6.81 ug/L	4.369	34.1 ug/L	21.85	64.12%
Sn 189.927†	-0.1		-3.31 ug/L	5.418	-16.5 ug/L	27.09	163.86%
Sr 421.552†	134733.9		220 ug/L	0.2	1100 ug/L	1.2	0.11%
Ti 334.940†	97.3		0.185 ug/L	0.0438	0.925 ug/L	0.2192	23.69%
Tl 190.801†	3.1		4.89 ug/L	1.378	24.4 ug/L	6.89	28.21%
V 292.402†	266.7		6.44 ug/L	0.107	32.2 ug/L	0.53	1.66%
Zn 206.200†	19.5		2.37 ug/L	0.186	11.8 ug/L	0.93	7.84%

Sequence No.: 14
 Sample ID: 350576504
 Analyst:
 Initial Sample Wt:
 Dilution: 5X

Autosampler Location: 44
 Date Collected: 5/3/2012 11:22:48 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350576504

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	291508.5		101 %	1.5			1.48%
Sc 361.383	2453684.4		98.3 %	1.01			1.03%
Ag 328.068†	-12.7		0.224 ug/L	0.0876	1.12 ug/L	0.438	39.12%
Al 308.215†	25.9		17.4 ug/L	4.14	87.2 ug/L	20.72	23.76%
As 188.979†	3.4		0.793 ug/L	0.8697	3.97 ug/L	4.349	109.67%
Ba 233.527†	548.7		7.20 ug/L	0.187	36.0 ug/L	0.94	2.60%
Be 234.861†	-2.9		0.068 ug/L	0.0207	0.338 ug/L	0.1037	30.70%
Ca 315.887†	71804.8		9850 ug/L	105.2	49300 ug/L	526.0	1.07%
Cd 226.502†	-1.8		-0.065 ug/L	0.3206	-0.327 ug/L	1.6029	489.99%
Co 228.616†	-2.7		-0.067 ug/L	0.2680	-0.333 ug/L	1.3402	402.20%
Cr 267.716†	20.8		0.660 ug/L	0.0132	3.30 ug/L	0.066	2.00%
Cu 324.752†	414.2		1.69 ug/L	0.256	8.47 ug/L	1.278	15.09%
Fe 259.939†	262.4		17.0 ug/L	1.17	85.2 ug/L	5.86	6.88%
K 766.490†	5654.6		1260 ug/L	2.9	6300 ug/L	14.4	0.23%
Mg 279.077†	20431.1		2250 ug/L	39.9	11300 ug/L	199.7	1.77%
Mn 257.610†	482.9		0.847 ug/L	0.0165	4.24 ug/L	0.083	1.95%
Mo 202.031†	24.2		8.32 ug/L	0.610	41.6 ug/L	3.05	7.33%
Na 589.592†	1172907.3		122000 ug/L	2338.4	610000 ug/L	11691.9	1.92%
Ni 231.604†	226.4		25.8 ug/L	0.63	129 ug/L	3.2	2.45%
Pb 220.353†	-2.5		-0.025 ug/L	1.3745	-0.123 ug/L	6.8725	>999.9%
Sb 206.836†	2.4		2.01 ug/L	2.222	10.0 ug/L	11.11	110.79%
Se 196.026†	-0.2		4.67 ug/L	2.420	23.3 ug/L	12.10	51.85%
Sn 189.927†	-1.9		-4.84 ug/L	2.836	-24.2 ug/L	14.18	58.58%
Sr 421.552†	131264.6		214 ug/L	2.2	1070 ug/L	10.8	1.01%
Ti 334.940†	7.6		0.020 ug/L	0.0986	0.099 ug/L	0.4928	497.37%
Tl 190.801†	0.6		2.54 ug/L	2.362	12.7 ug/L	11.81	93.10%
V 292.402†	263.3		6.35 ug/L	0.418	31.8 ug/L	2.09	6.57%
Zn 206.200†	22.9		2.80 ug/L	0.392	14.0 ug/L	1.96	14.02%

Sequence No.: 15
 Sample ID: 350581903
 Analyst:
 Initial Sample Wt:
 Dilution: 10X

Autosampler Location: 45
 Date Collected: 5/3/2012 11:29:06 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350581903

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	291421.3		101 %	0.5			0.47%
Sc 361.383	2505726.3		100 %	1.2			1.17%
Ag 328.068†	7.5		0.391 ug/L	0.1922	3.91 ug/L	1.922	49.19%
Al 308.215†	164.9		97.7 ug/L	1.37	977 ug/L	13.7	1.40%
As 188.979†	2217.6		2740 ug/L	33.5	27400 ug/L	335.1	1.22%
Ba 233.527†	491.0		6.42 ug/L	0.064	64.2 ug/L	0.64	1.00%
Be 234.861†	-11.2		0.038 ug/L	0.0535	0.383 ug/L	0.5349	139.79%
Ca 315.887†	7326.0		995 ug/L	4.7	9950 ug/L	46.5	0.47%
Cd 226.502†	-1.7		-0.153 ug/L	0.3113	-1.53 ug/L	3.113	203.07%
Co 228.616†	1.9		0.160 ug/L	0.2982	1.60 ug/L	2.982	186.35%
Cr 267.716†	5.1		0.182 ug/L	0.0573	1.82 ug/L	0.573	31.58%
Cu 324.752†	249.4		1.15 ug/L	0.099	11.5 ug/L	0.99	8.62%
Fe 259.939†	9423.8		776 ug/L	3.7	7760 ug/L	37.4	0.48%
K 766.490†	753.3		124 ug/L	5.0	1240 ug/L	50.3	4.05%
Mg 279.077†	2619.5		289 ug/L	3.1	2890 ug/L	30.9	1.07%
Mn 257.610†	1385.7		2.81 ug/L	0.061	28.1 ug/L	0.61	2.16%
Mo 202.031†	-1.0		0.510 ug/L	0.1778	5.10 ug/L	1.778	34.85%
Na 589.592†	29762.7		3090 ug/L	4.8	30900 ug/L	48.3	0.16%
Ni 231.604†	-0.1		0.372 ug/L	0.2423	3.72 ug/L	2.423	65.04%
Pb 220.353†	4.5		4.49 ug/L	2.193	44.9 ug/L	21.93	48.81%
Sb 206.836†	3.7		2.90 ug/L	2.366	29.0 ug/L	23.66	81.70%
Se 196.026†	-1.0		2.51 ug/L	1.863	25.1 ug/L	18.63	74.32%
Sn 189.927†	-2.1		-5.99 ug/L	1.050	-59.9 ug/L	10.50	17.53%
Sr 421.552†	2837.5		4.62 ug/L	0.016	46.2 ug/L	0.16	0.35%
Ti 334.940†	261.2		0.487 ug/L	0.1550	4.87 ug/L	1.550	31.81%
Tl 190.801†	-0.6		1.42 ug/L	2.282	14.2 ug/L	22.82	160.93%
V 292.402†	20.8		0.386 ug/L	0.2120	3.86 ug/L	2.120	54.87%
Zn 206.200†	23.5		2.84 ug/L	0.235	28.4 ug/L	2.35	8.27%

Sequence No.: 16
 Sample ID: 350581905
 Analyst:
 Initial Sample Wt:
 Dilution: 4X

Autosampler Location: 46
 Date Collected: 5/3/2012 11:35:17 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350581905

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	292527.1		101 %	0.2			0.17%
Sc 361.383	2484661.5		99.6 %	0.37			0.37%
Ag 328.068†	-42.3		0.032 ug/L	0.0956	0.129 ug/L	0.3825	297.03%
Al 308.215†	93.8		56.6 ug/L	0.93	227 ug/L	3.7	1.63%
As 188.979†	2591.8		3200 ug/L	26.6	12800 ug/L	106.3	0.83%
Ba 233.527†	1444.6		18.9 ug/L	0.11	75.5 ug/L	0.45	0.60%
Be 234.861†	-27.9		0.008 ug/L	0.0884	0.034 ug/L	0.3537	>999.9%
Ca 315.887†	24417.8		3340 ug/L	14.2	13400 ug/L	56.8	0.42%
Cd 226.502†	0.9		-0.167 ug/L	0.5130	-0.668 ug/L	2.0521	307.09%
Co 228.616†	1.1		0.032 ug/L	0.1521	0.130 ug/L	0.6084	469.64%
Cr 267.716†	17.8		0.611 ug/L	0.1364	2.44 ug/L	0.546	22.33%
Cu 324.752†	227.3		1.07 ug/L	0.241	4.26 ug/L	0.965	22.65%
Fe 259.939†	44885.1		3720 ug/L	12.4	14900 ug/L	49.6	0.33%
K 766.490†	4511.1		994 ug/L	20.3	3980 ug/L	81.4	2.05%
Mg 279.077†	10066.4		1110 ug/L	14.2	4440 ug/L	56.8	1.28%
Mn 257.610†	4724.9		10.1 ug/L	0.05	40.4 ug/L	0.20	0.48%
Mo 202.031†	-0.7		0.722 ug/L	1.8710	2.89 ug/L	7.484	259.29%
Na 589.592†	84889.3		8820 ug/L	31.1	35300 ug/L	124.4	0.35%
Ni 231.604†	-5.5		-0.286 ug/L	0.2396	-1.14 ug/L	0.958	83.85%
Pb 220.353†	-2.8		-0.483 ug/L	0.7987	-1.93 ug/L	3.195	165.28%
Sb 206.836†	0.4		0.451 ug/L	3.1142	1.81 ug/L	12.457	689.97%
Se 196.026†	0.4		5.20 ug/L	11.358	20.8 ug/L	45.43	218.51%
Sn 189.927†	0.1		-4.06 ug/L	1.700	-16.2 ug/L	6.80	41.89%
Sr 421.552†	8124.2		13.3 ug/L	0.03	53.0 ug/L	0.12	0.23%
Ti 334.940†	36.6		0.073 ug/L	0.0782	0.293 ug/L	0.3128	106.75%
Tl 190.801†	0.2		2.17 ug/L	3.918	8.68 ug/L	15.672	180.52%
V 292.402†	92.8		2.14 ug/L	0.146	8.54 ug/L	0.584	6.84%
Zn 206.200†	18.2		2.08 ug/L	0.039	8.33 ug/L	0.157	1.89%

Sequence No.: 17
 Sample ID: 128794MB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 47
 Date Collected: 5/3/2012 11:41:31 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 128794MB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	291578.0	101 %	1.0			0.98%
Sc 361.383	2494168.9	99.9 %	0.67			0.67%
Ag 328.068†	-22.0	0.151 ug/L	0.2767	0.151 ug/L	0.2767	183.25%
Al 308.215†	-4.5	-0.141 ug/L	3.5753	-0.141 ug/L	3.5753	>999.9%
As 188.979†	1.2	-1.91 ug/L	3.196	-1.91 ug/L	3.196	166.99%
Ba 233.527†	-1.7	-0.045 ug/L	0.0789	-0.045 ug/L	0.0789	174.54%
Be 234.861†	-25.6	-0.054 ug/L	0.0201	-0.054 ug/L	0.0201	37.53%
Ca 315.887†	98.2	1.84 ug/L	1.233	1.84 ug/L	1.233	66.89%
Cd 226.502†	-3.1	-0.258 ug/L	0.0704	-0.258 ug/L	0.0704	27.23%
Co 228.616†	-5.6	-0.216 ug/L	0.0232	-0.216 ug/L	0.0232	10.74%
Cr 267.716†	7.8	0.255 ug/L	0.1270	0.255 ug/L	0.1270	49.74%
Cu 324.752†	285.8	1.28 ug/L	0.288	1.28 ug/L	0.288	22.54%
Fe 259.939†	82.7	2.15 ug/L	0.054	2.15 ug/L	0.054	2.51%
K 766.490†	45.8	-39.5 ug/L	13.61	-39.5 ug/L	13.61	34.44%
Mg 279.077†	7.3	1.30 ug/L	1.467	1.30 ug/L	1.467	112.40%
Mn 257.610†	123.4	0.061 ug/L	0.0111	0.061 ug/L	0.0111	18.19%
Mo 202.031†	-2.3	0.081 ug/L	0.2855	0.081 ug/L	0.2855	353.42%
Na 589.592†	225.7	16.2 ug/L	3.22	16.2 ug/L	3.22	19.91%
Ni 231.604†	-2.4	0.136 ug/L	0.5588	0.136 ug/L	0.5588	409.90%
Pb 220.353†	2.7	3.37 ug/L	4.006	3.37 ug/L	4.006	118.87%
Sb 206.836†	1.1	1.05 ug/L	2.604	1.05 ug/L	2.604	247.41%
Se 196.026†	-2.3	0.099 ug/L	1.7212	0.099 ug/L	1.7212	>999.9%
Sn 189.927†	0.2	-4.12 ug/L	1.007	-4.12 ug/L	1.007	24.40%
Sr 421.552†	53.1	0.070 ug/L	0.0221	0.070 ug/L	0.0221	31.52%
Ti 334.940†	70.8	0.136 ug/L	0.0213	0.136 ug/L	0.0213	15.66%
Tl 190.801†	-2.0	0.025 ug/L	2.1992	0.025 ug/L	2.1992	>999.9%
V 292.402†	-2.9	-0.192 ug/L	0.0948	-0.192 ug/L	0.0948	49.40%
Zn 206.200†	2.5	0.257 ug/L	0.5551	0.257 ug/L	0.5551	215.94%

Sequence No.: 18
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 5/3/2012 11:47:42 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV

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

Sequence No.: 19
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 5/3/2012 11:52:55 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	294471.8	102 %	1.1			1.06%
Sc 361.383	2536648.5	102 %	0.8			0.83%
Ag 328.068†	-4.7	0.286 ug/L	0.3530	0.286 ug/L	0.3530	123.28%
QC value within limits for Ag		328.068	Recovery =	Not calculated		
Al 308.215†	-10.9	-3.85 ug/L	3.250	-3.85 ug/L	3.250	84.50%
QC value within limits for Al		308.215	Recovery =	Not calculated		
As 188.979†	0.4	-2.90 ug/L	1.026	-2.90 ug/L	1.026	35.40%
QC value within limits for As		188.979	Recovery =	Not calculated		
Ba 233.527†	5.9	0.055 ug/L	0.0785	0.055 ug/L	0.0785	143.29%
QC value within limits for Ba		233.527	Recovery =	Not calculated		
Be 234.861†	6.6	0.118 ug/L	0.0165	0.118 ug/L	0.0165	13.99%
QC value within limits for Be		234.861	Recovery =	Not calculated		
Ca 315.887†	38.3	-6.38 ug/L	2.014	-6.38 ug/L	2.014	31.56%
QC value within limits for Ca		315.887	Recovery =	Not calculated		
Cd 226.502†	-0.4	0.170 ug/L	0.2393	0.170 ug/L	0.2393	140.46%
QC value within limits for Cd		226.502	Recovery =	Not calculated		
Co 228.616†	1.1	0.141 ug/L	0.1933	0.141 ug/L	0.1933	137.45%
QC value within limits for Co		228.616	Recovery =	Not calculated		
Cr 267.716†	-6.3	-0.184 ug/L	0.2113	-0.184 ug/L	0.2113	114.83%
QC value within limits for Cr		267.716	Recovery =	Not calculated		
Cu 324.752†	129.6	0.756 ug/L	0.4411	0.756 ug/L	0.4411	58.32%
QC value within limits for Cu		324.752	Recovery =	Not calculated		
Fe 259.939†	81.5	2.05 ug/L	0.810	2.05 ug/L	0.810	39.54%
QC value within limits for Fe		259.939	Recovery =	Not calculated		
K 766.490†	-58.1	-63.6 ug/L	17.84	-63.6 ug/L	17.84	28.05%
QC value within limits for K		766.490	Recovery =	Not calculated		
Mg 279.077†	24.5	3.20 ug/L	1.604	3.20 ug/L	1.604	50.16%
QC value within limits for Mg		279.077	Recovery =	Not calculated		
Mn 257.610†	-43.3	-0.304 ug/L	0.0116	-0.304 ug/L	0.0116	3.80%
QC value within limits for Mn		257.610	Recovery =	Not calculated		
Mo 202.031†	0.7	0.993 ug/L	0.8406	0.993 ug/L	0.8406	84.67%
QC value within limits for Mo		202.031	Recovery =	Not calculated		
Na 589.592†	109.1	4.06 ug/L	1.728	4.06 ug/L	1.728	42.53%
QC value within limits for Na		589.592	Recovery =	Not calculated		
Ni 231.604†	2.7	0.703 ug/L	0.5035	0.703 ug/L	0.5035	71.59%
QC value within limits for Ni		231.604	Recovery =	Not calculated		
Pb 220.353†	-0.1	1.52 ug/L	1.994	1.52 ug/L	1.994	131.54%
QC value within limits for Pb		220.353	Recovery =	Not calculated		
Sb 206.836†	-0.7	-0.166 ug/L	2.3712	-0.166 ug/L	2.3712	>999.9%
QC value within limits for Sb		206.836	Recovery =	Not calculated		
Se 196.026†	0.2	4.61 ug/L	5.154	4.61 ug/L	5.154	111.75%
QC value within limits for Se		196.026	Recovery =	Not calculated		
Sn 189.927†	1.3	-3.29 ug/L	2.382	-3.29 ug/L	2.382	72.34%
QC value within limits for Sn		189.927	Recovery =	Not calculated		
Sr 421.552†	43.2	0.054 ug/L	0.0103	0.054 ug/L	0.0103	19.01%
QC value within limits for Sr		421.552	Recovery =	Not calculated		
Ti 334.940†	-19.7	-0.031 ug/L	0.0447	-0.031 ug/L	0.0447	146.14%
QC value within limits for Ti		334.940	Recovery =	Not calculated		
Tl 190.801†	-0.8	1.16 ug/L	4.137	1.16 ug/L	4.137	355.96%
QC value within limits for Tl		190.801	Recovery =	Not calculated		
V 292.402†	-0.4	-0.131 ug/L	0.1247	-0.131 ug/L	0.1247	94.85%
QC value within limits for V		292.402	Recovery =	Not calculated		
Zn 206.200†	-3.5	-0.498 ug/L	0.2405	-0.498 ug/L	0.2405	48.31%
QC value within limits for Zn		206.200	Recovery =	Not calculated		

All analyte(s) passed QC.

Sequence No.: 20
 Sample ID: 128795LCS
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 48
 Date Collected: 5/3/2012 11:59:03 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 128795LCS

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	281449.3	97.5 %	0.99			1.01%
Sc 361.383	2368513.5	94.9 %	1.03			1.08%
Ag 328.068†	24781.0	195 ug/L	1.9	195 ug/L	1.9	0.97%
Al 308.215†	89114.0	51400 ug/L	108.9	51400 ug/L	108.9	0.21%
As 188.979†	407.7	508 ug/L	5.1	508 ug/L	5.1	1.00%
Ba 233.527†	114532.2	1510 ug/L	14.5	1510 ug/L	14.5	0.96%
Be 234.861†	95282.0	508 ug/L	10.4	508 ug/L	10.4	2.04%
Ca 315.887†	372321.4	51100 ug/L	152.7	51100 ug/L	152.7	0.30%
Cd 226.502†	3161.3	501 ug/L	10.5	501 ug/L	10.5	2.09%
Co 228.616†	9451.8	502 ug/L	4.7	502 ug/L	4.7	0.93%
Cr 267.716†	16303.0	506 ug/L	4.7	506 ug/L	4.7	0.93%
Cu 324.752†	148871.2	495 ug/L	6.7	495 ug/L	6.7	1.35%
Fe 259.939†	622571.1	51600 ug/L	204.8	51600 ug/L	204.8	0.40%
K 766.490†	222498.6	51500 ug/L	128.0	51500 ug/L	128.0	0.25%
Mg 279.077†	446224.2	49200 ug/L	618.3	49200 ug/L	618.3	1.26%
Mn 257.610†	231842.0	507 ug/L	7.6	507 ug/L	7.6	1.49%
Mo 202.031†	1646.8	514 ug/L	10.5	514 ug/L	10.5	2.04%
Na 589.592†	494043.6	51300 ug/L	209.5	51300 ug/L	209.5	0.41%
Ni 231.604†	4468.2	500 ug/L	8.9	500 ug/L	8.9	1.78%
Pb 220.353†	769.2	509 ug/L	12.0	509 ug/L	12.0	2.36%
Sb 206.836†	724.7	500 ug/L	12.2	500 ug/L	12.2	2.45%
Se 196.026†	260.9	467 ug/L	4.1	467 ug/L	4.1	0.88%
Sn 189.927†	663.2	539 ug/L	10.0	539 ug/L	10.0	1.86%
Sr 421.552†	303258.2	495 ug/L	1.3	495 ug/L	1.3	0.27%
Ti 334.940†	285926.5	527 ug/L	6.8	527 ug/L	6.8	1.29%
Tl 190.801†	510.0	492 ug/L	9.8	492 ug/L	9.8	1.99%
V 292.402†	21147.6	520 ug/L	3.9	520 ug/L	3.9	0.74%
Zn 206.200†	4013.9	499 ug/L	6.8	499 ug/L	6.8	1.36%

Sequence No.: 21
 Sample ID: 128496LCSD
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 49
 Date Collected: 5/3/2012 12:04:16 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 128496LCSD

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	288591.7		99.9 %	0.86			0.86%
Sc 361.383	2411242.7		96.6 %	1.33			1.37%
Ag 328.068†	24358.9		192 ug/L	2.4	192 ug/L	2.4	1.28%
Al 308.215†	87369.8		50400 ug/L	284.8	50400 ug/L	284.8	0.56%
As 188.979†	404.3		503 ug/L	4.9	503 ug/L	4.9	0.97%
Ba 233.527†	112062.5		1470 ug/L	22.3	1470 ug/L	22.3	1.51%
Be 234.861†	94299.2		503 ug/L	2.2	503 ug/L	2.2	0.43%
Ca 315.887†	365109.3		50100 ug/L	179.5	50100 ug/L	179.5	0.36%
Cd 226.502†	3107.9		492 ug/L	3.3	492 ug/L	3.3	0.66%
Co 228.616†	9239.6		490 ug/L	9.9	490 ug/L	9.9	2.03%
Cr 267.716†	15971.4		496 ug/L	8.5	496 ug/L	8.5	1.71%
Cu 324.752†	147894.9		492 ug/L	0.8	492 ug/L	0.8	0.17%
Fe 259.939†	609530.8		50500 ug/L	164.3	50500 ug/L	164.3	0.33%
K 766.490†	219671.0		50800 ug/L	124.7	50800 ug/L	124.7	0.25%
Mg 279.077†	442274.5		48700 ug/L	745.5	48700 ug/L	745.5	1.53%
Mn 257.610†	228637.0		500 ug/L	1.3	500 ug/L	1.3	0.26%
Mo 202.031†	1628.5		509 ug/L	3.1	509 ug/L	3.1	0.62%
Na 589.592†	486632.8		50600 ug/L	112.0	50600 ug/L	112.0	0.22%
Ni 231.604†	4401.0		493 ug/L	5.6	493 ug/L	5.6	1.14%
Pb 220.353†	753.5		499 ug/L	6.6	499 ug/L	6.6	1.32%
Sb 206.836†	720.1		497 ug/L	7.1	497 ug/L	7.1	1.43%
Se 196.026†	264.7		474 ug/L	15.7	474 ug/L	15.7	3.32%
Sn 189.927†	651.5		529 ug/L	9.6	529 ug/L	9.6	1.81%
Sr 421.552†	297506.9		486 ug/L	1.6	486 ug/L	1.6	0.33%
Ti 334.940†	284519.2		524 ug/L	1.8	524 ug/L	1.8	0.35%
Tl 190.801†	503.9		486 ug/L	5.7	486 ug/L	5.7	1.18%
V 292.402†	20781.0		511 ug/L	8.9	511 ug/L	8.9	1.75%
Zn 206.200†	3965.5		493 ug/L	6.7	493 ug/L	6.7	1.35%

Sequence No.: 22
 Sample ID: 350591401
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 50
 Date Collected: 5/3/2012 12:09:30 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350591401

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	271230.5		93.9 %	1.27			1.35%
Sc 361.383	2251567.4		90.2 %	1.36			1.51%
Ag 328.068†	-267.2		-1.08 ug/L	0.241	-1.08 ug/L	0.241	22.25%
Al 308.215†	174819.1		101000 ug/L	988.4	101000 ug/L	988.4	0.98%
As 188.979†	2.5		5.23 ug/L	5.828	5.23 ug/L	5.828	111.47%
Ba 233.527†	21185.3		277 ug/L	5.6	277 ug/L	5.6	2.00%
Be 234.861†	-115.4		0.715 ug/L	0.1808	0.715 ug/L	0.1808	25.27%
Ca 315.887†	5055423.4		694000 ug/L	12243.9	694000 ug/L	12243.9	1.76%
Cd 226.502†	713.6		106 ug/L	2.3	106 ug/L	2.3	2.19%
Co 228.616†	13920.6		726 ug/L	11.8	726 ug/L	11.8	1.63%
Cr 267.716†	2448.1		76.7 ug/L	0.93	76.7 ug/L	0.93	1.21%
Cu 324.752†	27706.3		91.4 ug/L	2.48	91.4 ug/L	2.48	2.72%
Fe 259.939†	752214.8		62300 ug/L	691.4	62300 ug/L	691.4	1.11%
K 766.490†	86962.4		20100 ug/L	219.5	20100 ug/L	219.5	1.09%
Mg 279.077†	936435.3		103000 ug/L	1868.1	103000 ug/L	1868.1	1.81%
Mn 257.610†	370648.2		810 ug/L	4.9	810 ug/L	4.9	0.60%
Mo 202.031†	-7.6		0.787 ug/L	1.2877	0.787 ug/L	1.2877	163.57%
Na 589.592†	162865.1		16900 ug/L	163.3	16900 ug/L	163.3	0.97%
Ni 231.604†	463.5		51.6 ug/L	0.36	51.6 ug/L	0.36	0.69%
Pb 220.353†	1148.9		768 ug/L	9.3	768 ug/L	9.3	1.21%
Sb 206.836†	4.3		14.9 ug/L	5.83	14.9 ug/L	5.83	39.24%
Se 196.026†	1.5		63.4 ug/L	19.84	63.4 ug/L	19.84	31.28%
Sn 189.927†	46.2		143 ug/L	4.5	143 ug/L	4.5	3.15%
Sr 421.552†	573744.8		937 ug/L	9.1	937 ug/L	9.1	0.97%
Ti 334.940†	4361076.8		8040 ug/L	78.8	8040 ug/L	78.8	0.98%
Tl 190.801†	-14.1		-1.63 ug/L	8.087	-1.63 ug/L	8.087	496.50%
V 292.402†	3477.1		85.0 ug/L	1.23	85.0 ug/L	1.23	1.45%
Zn 206.200†	1240638.9		154000 ug/L	2623.6	154000 ug/L	2623.6	1.70%

Sequence No.: 23
Sample ID: 350591401L
Analyst:
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 51
Date Collected: 5/3/2012 12:14:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 350591401L

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	296643.6	103 %	0.7			0.65%
Sc 361.383	2510734.3	101 %	0.8			0.81%
Ag 328.068†	-110.3	-0.408 ug/L	0.6082	-2.04 ug/L	3.041	149.11%
Al 308.215†	31842.5	18400 ug/L	55.1	91900 ug/L	275.6	0.30%
As 188.979†	5.9	4.96 ug/L	4.368	24.8 ug/L	21.84	88.07%
Ba 233.527†	4132.9	54.0 ug/L	0.43	270 ug/L	2.1	0.79%
Be 234.861†	-14.3	0.249 ug/L	0.1057	1.24 ug/L	0.529	42.49%
Ca 315.887†	950850.2	131000 ug/L	782.1	653000 ug/L	3910.4	0.60%
Cd 226.502†	143.9	21.6 ug/L	0.44	108 ug/L	2.2	2.06%
Co 228.616†	2760.6	144 ug/L	0.4	721 ug/L	2.0	0.28%
Cr 267.716†	517.2	16.2 ug/L	0.19	81.0 ug/L	0.97	1.20%
Cu 324.752†	5182.2	17.3 ug/L	0.85	86.7 ug/L	4.26	4.92%
Fe 259.939†	146222.1	12100 ug/L	24.7	60600 ug/L	123.7	0.20%
K 766.490†	16153.5	3690 ug/L	22.8	18500 ug/L	113.8	0.62%
Mg 279.077†	184185.2	20300 ug/L	176.2	101000 ug/L	880.8	0.87%
Mn 257.610†	71939.5	157 ug/L	3.2	785 ug/L	15.9	2.03%
Mo 202.031†	-1.5	0.783 ug/L	1.0448	3.91 ug/L	5.224	133.48%
Na 589.592†	29792.3	3090 ug/L	13.8	15400 ug/L	69.2	0.45%
Ni 231.604†	94.8	10.9 ug/L	0.41	54.4 ug/L	2.04	3.75%
Pb 220.353†	233.8	157 ug/L	3.2	786 ug/L	16.0	2.04%
Sb 206.836†	1.2	3.34 ug/L	0.740	16.7 ug/L	3.70	22.12%
Se 196.026†	0.2	15.2 ug/L	7.47	76.0 ug/L	37.34	49.12%
Sn 189.927†	2.6	18.6 ug/L	5.84	92.8 ug/L	29.18	31.46%
Sr 421.552†	108084.6	177 ug/L	0.5	883 ug/L	2.6	0.30%
Ti 334.940†	834614.8	1540 ug/L	8.7	7690 ug/L	43.4	0.56%
Tl 190.801†	-1.7	2.22 ug/L	2.536	11.1 ug/L	12.68	114.28%
V 292.402†	666.2	16.2 ug/L	0.19	81.0 ug/L	0.95	1.17%
Zn 206.200†	282216.7	35100 ug/L	271.3	176000 ug/L	1356.4	0.77%

Sequence No.: 24
Sample ID: 128797MS
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 52
Date Collected: 5/3/2012 12:20:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 128797MS

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	273841.9	94.8 %	0.47			0.49%
Sc 361.383	2273089.1	91.1 %	0.82			0.90%
Ag 328.068†	25571.8	202 ug/L	1.7	202 ug/L	1.7	0.85%
Al 308.215†	244638.2	141000 ug/L	609.5	141000 ug/L	609.5	0.43%
As 188.979†	248.0	314 ug/L	4.4	314 ug/L	4.4	1.40%
Ba 233.527†	128856.7	1690 ug/L	22.4	1690 ug/L	22.4	1.32%
Be 234.861†	100854.7	539 ug/L	2.6	539 ug/L	2.6	0.48%
Ca 315.887†	4033829.0	554000 ug/L	1378.8	554000 ug/L	1378.8	0.25%
Cd 226.502†	3537.4	555 ug/L	5.8	555 ug/L	5.8	1.04%
Co 228.616†	19270.2	1010 ug/L	13.9	1010 ug/L	13.9	1.37%
Cr 267.716†	18178.1	565 ug/L	6.5	565 ug/L	6.5	1.16%
Cu 324.752†	183900.3	611 ug/L	6.8	611 ug/L	6.8	1.11%
Fe 259.939†	1153143.6	95600 ug/L	242.2	95600 ug/L	242.2	0.25%
K 766.490†	322198.0	74600 ug/L	362.5	74600 ug/L	362.5	0.49%
Mg 279.077†	1199834.5	132000 ug/L	1650.1	132000 ug/L	1650.1	1.25%
Mn 257.610†	526010.3	1150 ug/L	2.6	1150 ug/L	2.6	0.23%
Mo 202.031†	1102.5	347 ug/L	1.9	347 ug/L	1.9	0.54%
Na 589.592†	688158.5	71500 ug/L	178.0	71500 ug/L	178.0	0.25%
Ni 231.604†	4785.6	535 ug/L	6.0	535 ug/L	6.0	1.12%
Pb 220.353†	1591.8	1060 ug/L	12.2	1060 ug/L	12.2	1.15%
Sb 206.836†	323.8	229 ug/L	3.0	229 ug/L	3.0	1.33%
Se 196.026†	191.3	386 ug/L	14.3	386 ug/L	14.3	3.70%
Sn 189.927†	674.3	628 ug/L	5.0	628 ug/L	5.0	0.79%
Sr 421.552†	745360.9	1220 ug/L	3.1	1220 ug/L	3.1	0.25%
Ti 334.940†	3473536.5	6400 ug/L	12.4	6400 ug/L	12.4	0.19%
Tl 190.801†	341.9	337 ug/L	5.1	337 ug/L	5.1	1.51%
V 292.402†	23738.0	584 ug/L	5.7	584 ug/L	5.7	0.98%
Zn 206.200†	1243533.9	155000 ug/L	887.2	155000 ug/L	887.2	0.57%

Sequence No.: 25
 Sample ID: 128798MSD
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 53
 Date Collected: 5/3/2012 12:25:23 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 128798MSD

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	279595.1		96.8 %	0.91			0.94%
Sc 361.383	2339258.2		93.7 %	0.87			0.93%
Ag 328.068†	25061.5		198 ug/L	2.5	198 ug/L	2.5	1.26%
Al 308.215†	234756.8	136000	ug/L	178.5	136000 ug/L	178.5	0.13%
As 188.979†	254.9	323	ug/L	8.0	323 ug/L	8.0	2.48%
Ba 233.527†	123246.5	1620	ug/L	16.9	1620 ug/L	16.9	1.05%
Be 234.861†	97919.6	523	ug/L	3.1	523 ug/L	3.1	0.59%
Ca 315.887†	2329806.8	320000	ug/L	282.8	320000 ug/L	282.8	0.09%
Cd 226.502†	3308.7	517	ug/L	5.8	517 ug/L	5.8	1.13%
Co 228.616†	15583.2	818	ug/L	7.2	818 ug/L	7.2	0.89%
Cr 267.716†	17908.5	556	ug/L	6.3	556 ug/L	6.3	1.13%
Cu 324.752†	178201.2	593	ug/L	8.0	593 ug/L	8.0	1.35%
Fe 259.939†	1238766.3	103000	ug/L	111.1	103000 ug/L	111.1	0.11%
K 766.490†	302360.5	70000	ug/L	156.7	70000 ug/L	156.7	0.22%
Mg 279.077†	942998.5	104000	ug/L	455.9	104000 ug/L	455.9	0.44%
Mn 257.610†	442086.0	966	ug/L	4.3	966 ug/L	4.3	0.44%
Mo 202.031†	1117.0	352	ug/L	4.1	352 ug/L	4.1	1.17%
Na 589.592†	714051.6	74200	ug/L	75.0	74200 ug/L	75.0	0.10%
Ni 231.604†	4733.0	529	ug/L	3.0	529 ug/L	3.0	0.57%
Pb 220.353†	1281.7	853	ug/L	11.0	853 ug/L	11.0	1.28%
Sb 206.836†	374.2	263	ug/L	3.6	263 ug/L	3.6	1.35%
Se 196.026†	188.8	362	ug/L	10.7	362 ug/L	10.7	2.96%
Sn 189.927†	686.7	610	ug/L	4.5	610 ug/L	4.5	0.73%
Sr 421.552†	592397.3	968	ug/L	0.9	968 ug/L	0.9	0.09%
Ti 334.940†	3169230.3	5840	ug/L	3.8	5840 ug/L	3.8	0.07%
Tl 190.801†	313.8	310	ug/L	7.6	310 ug/L	7.6	2.45%
V 292.402†	22890.4	563	ug/L	5.5	563 ug/L	5.5	0.98%
Zn 206.200†	1428963.0	178000	ug/L	2325.0	178000 ug/L	2325.0	1.31%

Sequence No.: 26
 Sample ID: 350591401A
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 54
 Date Collected: 5/3/2012 12:30:38 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350591401A

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	274745.6	95.2 %	0.40			0.42%
Sc 361.383	2295213.4	92.0 %	0.44			0.48%
Ag 328.068†	26054.5	206 ug/L	0.1	206 ug/L	0.1	0.06%
Al 308.215†	255153.4	147000 ug/L	336.9	147000 ug/L	336.9	0.23%
As 188.979†	431.0	541 ug/L	8.6	541 ug/L	8.6	1.60%
Ba 233.527†	130271.3	1710 ug/L	1.0	1710 ug/L	1.0	0.06%
Be 234.861†	101671.5	543 ug/L	2.4	543 ug/L	2.4	0.44%
Ca 315.887†	5156252.6	708000 ug/L	4497.7	708000 ug/L	4497.7	0.64%
Cd 226.502†	3708.9	580 ug/L	4.3	580 ug/L	4.3	0.74%
Co 228.616†	22059.9	1160 ug/L	3.2	1160 ug/L	3.2	0.28%
Cr 267.716†	18293.9	568 ug/L	2.9	568 ug/L	2.9	0.51%
Cu 324.752†	186919.0	621 ug/L	2.6	621 ug/L	2.6	0.41%
Fe 259.939†	1295951.9	107000 ug/L	112.9	107000 ug/L	112.9	0.11%
K 766.490†	317873.4	73500 ug/L	40.1	73500 ug/L	40.1	0.05%
Mg 279.077†	1313520.4	145000 ug/L	23.1	145000 ug/L	23.1	0.02%
Mn 257.610†	571232.5	1250 ug/L	0.9	1250 ug/L	0.9	0.07%
Mo 202.031†	1608.8	505 ug/L	1.6	505 ug/L	1.6	0.32%
Na 589.592†	668871.0	69500 ug/L	60.2	69500 ug/L	60.2	0.09%
Ni 231.604†	4755.4	532 ug/L	4.2	532 ug/L	4.2	0.79%
Pb 220.353†	1794.1	1190 ug/L	8.8	1190 ug/L	8.8	0.74%
Sb 206.836†	745.9	525 ug/L	8.6	525 ug/L	8.6	1.65%
Se 196.026†	299.8	589 ug/L	12.8	589 ug/L	12.8	2.17%
Sn 189.927†	694.4	667 ug/L	12.3	667 ug/L	12.3	1.85%
Sr 421.552†	841896.5	1380 ug/L	1.1	1380 ug/L	1.1	0.08%
Ti 334.940†	4283201.9	7890 ug/L	27.0	7890 ug/L	27.0	0.34%
Tl 190.801†	466.3	459 ug/L	7.0	459 ug/L	7.0	1.52%
V 292.402†	24498.3	602 ug/L	2.0	602 ug/L	2.0	0.34%
Zn 206.200†	1171237.9	146000 ug/L	386.6	146000 ug/L	386.6	0.27%

Sequence No.: 27
Sample ID: 350591501
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 55
Date Collected: 5/3/2012 12:36:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 350591501

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	293254.9		102 %	0.8			0.82%
Sc 361.383	2479621.6		99.4 %	0.65			0.66%
Ag 328.068†	106.1		1.49 ug/L	0.413	1.49 ug/L	0.413	27.80%
Al 308.215†	115575.7		66700 ug/L	98.4	66700 ug/L	98.4	0.15%
As 188.979†	0.1		-0.339 ug/L	6.1125	-0.339 ug/L	6.1125	>999.9%
Ba 233.527†	1180770.9		15500 ug/L	73.8	15500 ug/L	73.8	0.47%
Be 234.861†	-84.8		0.236 ug/L	0.1716	0.236 ug/L	0.1716	72.83%
Ca 315.887†	306506.5		42100 ug/L	93.1	42100 ug/L	93.1	0.22%
Cd 226.502†	40.9		2.42 ug/L	0.248	2.42 ug/L	0.248	10.26%
Co 228.616†	355.3		13.2 ug/L	0.17	13.2 ug/L	0.17	1.30%
Cr 267.716†	2139.2		66.7 ug/L	0.61	66.7 ug/L	0.61	0.91%
Cu 324.752†	1910450.1		6370 ug/L	19.2	6370 ug/L	19.2	0.30%
Fe 259.939†	364525.4		30200 ug/L	29.6	30200 ug/L	29.6	0.10%
K 766.490†	8515.5		1920 ug/L	20.4	1920 ug/L	20.4	1.06%
Mg 279.077†	12524.1		1380 ug/L	8.4	1380 ug/L	8.4	0.61%
Mn 257.610†	213050.7		466 ug/L	1.3	466 ug/L	1.3	0.27%
Mo 202.031†	27.2		10.4 ug/L	1.16	10.4 ug/L	1.16	11.19%
Na 589.592†	42885.8		4450 ug/L	8.3	4450 ug/L	8.3	0.19%
Ni 231.604†	396.2		44.2 ug/L	0.49	44.2 ug/L	0.49	1.10%
Pb 220.353†	97.5		62.5 ug/L	2.54	62.5 ug/L	2.54	4.07%
Sb 206.836†	2.5		5.24 ug/L	0.608	5.24 ug/L	0.608	11.60%
Se 196.026†	11.1		27.1 ug/L	9.24	27.1 ug/L	9.24	34.10%
Sn 189.927†	286.9		244 ug/L	2.4	244 ug/L	2.4	0.99%
Sr 421.552†	234299.6		383 ug/L	0.6	383 ug/L	0.6	0.14%
Ti 334.940†	1440689.0		2650 ug/L	54.2	2650 ug/L	54.2	2.04%
Tl 190.801†	-16.6		-9.25 ug/L	1.749	-9.25 ug/L	1.749	18.91%
V 292.402†	1002.9		24.4 ug/L	0.24	24.4 ug/L	0.24	0.98%
Zn 206.200†	327809.9		40800 ug/L	248.7	40800 ug/L	248.7	0.61%

Sequence No.: 28
 Sample ID: 350591502
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 56
 Date Collected: 5/3/2012 12:41:13 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350591502

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	272265.8	94.3 %	0.97			1.03%
Sc 361.383	2265943.0	90.8 %	0.21			0.23%
Ag 328.068†	7486.3	73.4 ug/L	0.79	73.4 ug/L	0.79	1.08%
Al 308.215†	196929.5	114000 ug/L	668.5	114000 ug/L	668.5	0.59%
As 188.979†	-88.1	-2.15 ug/L	7.533	-2.15 ug/L	7.533	349.99%
Ba 233.527†	415177.5	5430 ug/L	5.5	5430 ug/L	5.5	0.10%
Be 234.861†	-8591.4	-19.5 ug/L	2.08	-19.5 ug/L	2.08	10.70%
Ca 315.887†	4458224.0	612000 ug/L	5999.0	612000 ug/L	5999.0	0.98%
Cd 226.502†	1371.9	30.7 ug/L	2.65	30.7 ug/L	2.65	8.62%
Co 228.616†	55705.8	2900 ug/L	3.1	2900 ug/L	3.1	0.11%
Cr 267.716†	19671.6	625 ug/L	0.8	625 ug/L	0.8	0.13%
Cu 324.752†	491299.5	1600 ug/L	7.0	1600 ug/L	7.0	0.44%
Fe 259.939†	15799904.9	1310000 ug/L	21600.1	1310000 ug/L	21600.1	1.65%
K 766.490†	34153.4	7860 ug/L	38.5	7860 ug/L	38.5	0.49%
Mg 279.077†	1531169.7	169000 ug/L	2176.3	169000 ug/L	2176.3	1.29%
Mn 257.610†	11530131.7	25200 ug/L	49.0	25200 ug/L	49.0	0.19%
Mo 202.031†	44.8	64.5 ug/L	2.65	64.5 ug/L	2.65	4.11%
Na 589.592†	97657.3	10100 ug/L	20.1	10100 ug/L	20.1	0.20%
Ni 231.604†	4827.8	516 ug/L	0.4	516 ug/L	0.4	0.09%
Pb 220.353†	1079.8	663 ug/L	5.0	663 ug/L	5.0	0.75%
Sb 206.836†	35.8	13.9 ug/L	5.74	13.9 ug/L	5.74	41.45%
Se 196.026†	-96.6	-114 ug/L	2.6	-114 ug/L	2.6	2.24%
Sn 189.927†	530.7	531 ug/L	13.0	531 ug/L	13.0	2.45%
Sr 421.552†	464938.6	760 ug/L	1.3	760 ug/L	1.3	0.17%
Ti 334.940†	10955644.8	20200 ug/L	34.2	20200 ug/L	34.2	0.17%
Tl 190.801†	-37.9	2.46 ug/L	3.968	2.46 ug/L	3.968	161.34%
V 292.402†	9868.6	234 ug/L	1.7	234 ug/L	1.7	0.71%
Zn 206.200†	170229.1	21100 ug/L	78.7	21100 ug/L	78.7	0.37%

Sequence No.: 29
 Sample ID: 350591503
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 57
 Date Collected: 5/3/2012 12:46:47 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350591503

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	283255.7	98.1 %	0.61			0.62%
Sc 361.383	2370063.1	95.0 %	0.96			1.01%
Ag 328.068†	1270.9	10.9 ug/L	0.36	10.9 ug/L	0.36	3.30%
Al 308.215†	101303.2	58500 ug/L	3.2	58500 ug/L	3.2	0.01%
As 188.979†	3.5	6.36 ug/L	1.341	6.36 ug/L	1.341	21.08%
Ba 233.527†	11590.9	151 ug/L	1.5	151 ug/L	1.5	1.00%
Be 234.861†	-41.5	1.07 ug/L	0.110	1.07 ug/L	0.110	10.35%
Ca 315.887†	5127495.7	704000 ug/L	6817.6	704000 ug/L	6817.6	0.97%
Cd 226.502†	59.3	1.02 ug/L	0.423	1.02 ug/L	0.423	41.54%
Co 228.616†	394.3	10.0 ug/L	0.09	10.0 ug/L	0.09	0.93%
Cr 267.716†	2641.5	82.6 ug/L	0.31	82.6 ug/L	0.31	0.37%
Cu 324.752†	114777.8	382 ug/L	2.0	382 ug/L	2.0	0.53%
Fe 259.939†	726840.5	60200 ug/L	196.5	60200 ug/L	196.5	0.33%
K 766.490†	13887.7	3170 ug/L	32.6	3170 ug/L	32.6	1.03%
Mg 279.077†	274368.5	30200 ug/L	158.1	30200 ug/L	158.1	0.52%
Mn 257.610†	180362.1	394 ug/L	3.9	394 ug/L	3.9	0.99%
Mo 202.031†	-5.4	1.40 ug/L	1.426	1.40 ug/L	1.426	101.60%
Na 589.592†	27154.5	2820 ug/L	12.0	2820 ug/L	12.0	0.43%
Ni 231.604†	448.2	49.4 ug/L	0.85	49.4 ug/L	0.85	1.73%
Pb 220.353†	58.1	43.9 ug/L	2.23	43.9 ug/L	2.23	5.09%
Sb 206.836†	-6.8	1.86 ug/L	3.209	1.86 ug/L	3.209	172.19%
Se 196.026†	-5.3	51.8 ug/L	3.59	51.8 ug/L	3.59	6.93%
Sn 189.927†	-12.3	82.0 ug/L	2.20	82.0 ug/L	2.20	2.68%
Sr 421.552†	317870.2	519 ug/L	1.7	519 ug/L	1.7	0.32%
Ti 334.940†	2739929.7	5050 ug/L	18.1	5050 ug/L	18.1	0.36%
Tl 190.801†	-10.2	1.28 ug/L	2.065	1.28 ug/L	2.065	160.82%
V 292.402†	2852.3	69.7 ug/L	0.76	69.7 ug/L	0.76	1.09%
Zn 206.200†	7872.7	978 ug/L	12.5	978 ug/L	12.5	1.28%

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Sequence No.: 30                               Autosampler Location: 4
Sample ID: CCV                                 Date Collected: 5/3/2012 12:52:05 PM
Analyst:                                       Data Type: Original
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	286539.5	99.2 %	1.19			1.20%
Sc 361.383	2486383.4	99.6 %	0.52			0.52%
Ag 328.068†	65220.2	512 ug/L	4.3	512 ug/L	4.3	0.85%
QC value within limits for Ag	328.068	Recovery = 102.33%				
Al 308.215†	44143.1	25500 ug/L	61.7	25500 ug/L	61.7	0.24%
QC value within limits for Al	308.215	Recovery = 101.96%				
As 188.979†	417.8	520 ug/L	4.2	520 ug/L	4.2	0.81%
QC value within limits for As	188.979	Recovery = 103.92%				
Ba 233.527†	39473.2	518 ug/L	4.8	518 ug/L	4.8	0.92%
QC value within limits for Ba	233.527	Recovery = 103.64%				
Be 234.861†	96221.4	513 ug/L	5.5	513 ug/L	5.5	1.07%
QC value within limits for Be	234.861	Recovery = 102.61%				
Ca 315.887†	188513.4	25900 ug/L	122.0	25900 ug/L	122.0	0.47%
QC value within limits for Ca	315.887	Recovery = 103.52%				
Cd 226.502†	3254.5	517 ug/L	4.2	517 ug/L	4.2	0.82%
QC value within limits for Cd	226.502	Recovery = 103.39%				
Co 228.616†	9811.3	521 ug/L	4.5	521 ug/L	4.5	0.86%
QC value within limits for Co	228.616	Recovery = 104.29%				
Cr 267.716†	16573.4	514 ug/L	5.1	514 ug/L	5.1	0.99%
QC value within limits for Cr	267.716	Recovery = 102.85%				
Cu 324.752†	147589.8	491 ug/L	4.7	491 ug/L	4.7	0.95%
QC value within limits for Cu	324.752	Recovery = 98.24%				
Fe 259.939†	505258.8	41900 ug/L	155.7	41900 ug/L	155.7	0.37%
QC value within limits for Fe	259.939	Recovery = 104.69%				
K 766.490†	110505.2	25500 ug/L	86.3	25500 ug/L	86.3	0.34%
QC value within limits for K	766.490	Recovery = 102.14%				
Mg 279.077†	237577.7	26200 ug/L	497.1	26200 ug/L	497.1	1.90%
QC value within limits for Mg	279.077	Recovery = 104.70%				
Mn 257.610†	234242.6	512 ug/L	2.8	512 ug/L	2.8	0.54%
QC value within limits for Mn	257.610	Recovery = 102.38%				
Mo 202.031†	1634.5	510 ug/L	0.8	510 ug/L	0.8	0.15%
QC value within limits for Mo	202.031	Recovery = 102.04%				
Na 589.592†	245582.9	25500 ug/L	61.6	25500 ug/L	61.6	0.24%
QC value within limits for Na	589.592	Recovery = 102.08%				
Ni 231.604†	4617.4	517 ug/L	3.0	517 ug/L	3.0	0.59%
QC value within limits for Ni	231.604	Recovery = 103.44%				
Pb 220.353†	785.3	518 ug/L	6.6	518 ug/L	6.6	1.28%
QC value within limits for Pb	220.353	Recovery = 103.60%				
Sb 206.836†	746.8	515 ug/L	3.0	515 ug/L	3.0	0.58%
QC value within limits for Sb	206.836	Recovery = 103.01%				
Se 196.026†	284.3	506 ug/L	9.7	506 ug/L	9.7	1.91%
QC value within limits for Se	196.026	Recovery = 101.22%				
Sn 189.927†	524.9	424 ug/L	1.5	424 ug/L	1.5	0.35%
QC value within limits for Sn	189.927	Recovery = 105.95%				
Sr 421.552†	250856.0	410 ug/L	1.1	410 ug/L	1.1	0.26%
QC value within limits for Sr	421.552	Recovery = 102.45%				
Ti 334.940†	221908.5	409 ug/L	4.0	409 ug/L	4.0	0.97%
QC value within limits for Ti	334.940	Recovery = 102.24%				
Tl 190.801†	535.0	516 ug/L	1.8	516 ug/L	1.8	0.35%
QC value within limits for Tl	190.801	Recovery = 103.13%				
V 292.402†	21119.5	520 ug/L	6.0	520 ug/L	6.0	1.15%
QC value within limits for V	292.402	Recovery = 103.90%				
Zn 206.200†	4372.4	544 ug/L	4.1	544 ug/L	4.1	0.75%
QC value within limits for Zn	206.200	Recovery = 108.86%				

All analyte(s) passed QC.


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Sequence No.: 31                               Autosampler Location: 1
Sample ID: CCB                               Date Collected: 5/3/2012 12:57:18 PM
Analyst:                                       Data Type: Original
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                       Sample Prep Vol:
=====
    
```

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	297233.5	103 %	1.5			1.41%
Sc 361.383	2539343.1	102 %	0.8			0.76%
Ag 328.068†	13.9	0.433 ug/L	0.1935	0.433 ug/L	0.1935	44.75%
QC value within limits for Ag 328.068		Recovery =	Not calculated			
Al 308.215†	8.6	7.43 ug/L	1.591	7.43 ug/L	1.591	21.42%
QC value within limits for Al 308.215		Recovery =	Not calculated			
As 188.979†	2.5	-0.221 ug/L	0.6196	-0.221 ug/L	0.6196	280.84%
QC value within limits for As 188.979		Recovery =	Not calculated			
Ba 233.527†	29.5	0.363 ug/L	0.0320	0.363 ug/L	0.0320	8.82%
QC value within limits for Ba 233.527		Recovery =	Not calculated			
Be 234.861†	8.8	0.130 ug/L	0.0248	0.130 ug/L	0.0248	19.00%
QC value within limits for Be 234.861		Recovery =	Not calculated			
Ca 315.887†	500.9	57.2 ug/L	4.90	57.2 ug/L	4.90	8.57%
QC value within limits for Ca 315.887		Recovery =	Not calculated			
Cd 226.502†	-0.8	0.105 ug/L	0.0943	0.105 ug/L	0.0943	89.94%
QC value within limits for Cd 226.502		Recovery =	Not calculated			
Co 228.616†	4.0	0.292 ug/L	0.0335	0.292 ug/L	0.0335	11.46%
QC value within limits for Co 228.616		Recovery =	Not calculated			
Cr 267.716†	-3.6	-0.098 ug/L	0.0917	-0.098 ug/L	0.0917	94.01%
QC value within limits for Cr 267.716		Recovery =	Not calculated			
Cu 324.752†	586.6	2.28 ug/L	0.185	2.28 ug/L	0.185	8.13%
QC value within limits for Cu 324.752		Recovery =	Not calculated			
Fe 259.939†	715.6	54.6 ug/L	11.32	54.6 ug/L	11.32	20.73%
QC value greater than the upper limit for Fe 259.939		Recovery =	Not calculated			
K 766.490†	256.7	9.31 ug/L	6.425	9.31 ug/L	6.425	69.03%
QC value within limits for K 766.490		Recovery =	Not calculated			
Mg 279.077†	75.1	8.78 ug/L	1.030	8.78 ug/L	1.030	11.73%
QC value within limits for Mg 279.077		Recovery =	Not calculated			
Mn 257.610†	301.4	0.450 ug/L	0.0789	0.450 ug/L	0.0789	17.53%
QC value within limits for Mn 257.610		Recovery =	Not calculated			
Mo 202.031†	-0.2	0.730 ug/L	0.7460	0.730 ug/L	0.7460	102.20%
QC value within limits for Mo 202.031		Recovery =	Not calculated			
Na 589.592†	95.9	2.69 ug/L	3.348	2.69 ug/L	3.348	124.49%
QC value within limits for Na 589.592		Recovery =	Not calculated			
Ni 231.604†	3.4	0.780 ug/L	0.5882	0.780 ug/L	0.5882	75.41%
QC value within limits for Ni 231.604		Recovery =	Not calculated			
Pb 220.353†	-0.9	0.981 ug/L	1.6832	0.981 ug/L	1.6832	171.56%
QC value within limits for Pb 220.353		Recovery =	Not calculated			
Sb 206.836†	-0.8	-0.266 ug/L	2.5611	-0.266 ug/L	2.5611	963.57%
QC value within limits for Sb 206.836		Recovery =	Not calculated			
Se 196.026†	0.4	4.94 ug/L	4.358	4.94 ug/L	4.358	88.16%
QC value within limits for Se 196.026		Recovery =	Not calculated			
Sn 189.927†	1.1	-3.39 ug/L	3.780	-3.39 ug/L	3.780	111.48%
QC value within limits for Sn 189.927		Recovery =	Not calculated			
Sr 421.552†	70.5	0.099 ug/L	0.0212	0.099 ug/L	0.0212	21.44%
QC value within limits for Sr 421.552		Recovery =	Not calculated			
Ti 334.940†	417.8	0.776 ug/L	0.0547	0.776 ug/L	0.0547	7.05%
QC value within limits for Ti 334.940		Recovery =	Not calculated			
Tl 190.801†	0.2	2.19 ug/L	1.556	2.19 ug/L	1.556	70.95%
QC value within limits for Tl 190.801		Recovery =	Not calculated			
V 292.402†	-3.4	-0.204 ug/L	0.1087	-0.204 ug/L	0.1087	53.35%
QC value within limits for V 292.402		Recovery =	Not calculated			
Zn 206.200†	60.3	7.45 ug/L	0.353	7.45 ug/L	0.353	4.74%
QC value greater than the upper limit for Zn 206.200		Recovery =	Not calculated			
QC Failed. Retry.						

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Sequence No.: 32                               Autosampler Location: 1
Sample ID: CCB                               Date Collected: 5/3/2012 1:00:49 PM
Analyst:                                       Data Type: Original
    
```

Initial Sample Wt:
Dilution:

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	299927.0	104 %	1.3			1.25%
Sc 361.383	2567032.4	103 %	0.4			0.41%
Ag 328.068†	1.0	0.331 ug/L	0.1542	0.331 ug/L	0.1542	46.53%
QC value within limits for Ag	328.068	Recovery =	Not calculated			
Al 308.215†	-1.1	1.83 ug/L	2.077	1.83 ug/L	2.077	113.61%
QC value within limits for Al	308.215	Recovery =	Not calculated			
As 188.979†	-0.2	-3.67 ug/L	2.685	-3.67 ug/L	2.685	73.10%
QC value within limits for As	188.979	Recovery =	Not calculated			
Ba 233.527†	14.6	0.169 ug/L	0.0030	0.169 ug/L	0.0030	1.76%
QC value within limits for Ba	233.527	Recovery =	Not calculated			
Be 234.861†	4.8	0.109 ug/L	0.0164	0.109 ug/L	0.0164	15.03%
QC value within limits for Be	234.861	Recovery =	Not calculated			
Ca 315.887†	291.3	28.4 ug/L	2.86	28.4 ug/L	2.86	10.09%
QC value within limits for Ca	315.887	Recovery =	Not calculated			
Cd 226.502†	-1.0	0.071 ug/L	0.2079	0.071 ug/L	0.2079	290.84%
QC value within limits for Cd	226.502	Recovery =	Not calculated			
Co 228.616†	2.7	0.227 ug/L	0.2270	0.227 ug/L	0.2270	100.08%
QC value within limits for Co	228.616	Recovery =	Not calculated			
Cr 267.716†	-8.3	-0.243 ug/L	0.3132	-0.243 ug/L	0.3132	128.82%
QC value within limits for Cr	267.716	Recovery =	Not calculated			
Cu 324.752†	435.5	1.77 ug/L	0.400	1.77 ug/L	0.400	22.55%
QC value within limits for Cu	324.752	Recovery =	Not calculated			
Fe 259.939†	371.2	26.1 ug/L	1.46	26.1 ug/L	1.46	5.59%
QC value within limits for Fe	259.939	Recovery =	Not calculated			
K 766.490†	38.8	-41.1 ug/L	10.75	-41.1 ug/L	10.75	26.13%
QC value within limits for K	766.490	Recovery =	Not calculated			
Mg 279.077†	44.5	5.41 ug/L	0.416	5.41 ug/L	0.416	7.70%
QC value within limits for Mg	279.077	Recovery =	Not calculated			
Mn 257.610†	163.1	0.148 ug/L	0.0488	0.148 ug/L	0.0488	33.09%
QC value within limits for Mn	257.610	Recovery =	Not calculated			
Mo 202.031†	-2.5	0.013 ug/L	0.3339	0.013 ug/L	0.3339	>999.9%
QC value within limits for Mo	202.031	Recovery =	Not calculated			
Na 589.592†	61.8	-0.859 ug/L	2.4837	-0.859 ug/L	2.4837	289.12%
QC value within limits for Na	589.592	Recovery =	Not calculated			
Ni 231.604†	-0.7	0.326 ug/L	0.3422	0.326 ug/L	0.3422	105.00%
QC value within limits for Ni	231.604	Recovery =	Not calculated			
Pb 220.353†	-1.8	0.405 ug/L	0.7022	0.405 ug/L	0.7022	173.28%
QC value within limits for Pb	220.353	Recovery =	Not calculated			
Sb 206.836†	-0.8	-0.225 ug/L	2.3694	-0.225 ug/L	2.3694	>999.9%
QC value within limits for Sb	206.836	Recovery =	Not calculated			
Se 196.026†	-0.3	3.67 ug/L	6.136	3.67 ug/L	6.136	167.36%
QC value within limits for Se	196.026	Recovery =	Not calculated			
Sn 189.927†	0.7	-3.73 ug/L	0.764	-3.73 ug/L	0.764	20.49%
QC value within limits for Sn	189.927	Recovery =	Not calculated			
Sr 421.552†	42.6	0.053 ug/L	0.0058	0.053 ug/L	0.0058	10.93%
QC value within limits for Sr	421.552	Recovery =	Not calculated			
Ti 334.940†	265.2	0.494 ug/L	0.0367	0.494 ug/L	0.0367	7.43%
QC value within limits for Ti	334.940	Recovery =	Not calculated			
Tl 190.801†	2.0	3.89 ug/L	3.246	3.89 ug/L	3.246	83.35%
QC value within limits for Tl	190.801	Recovery =	Not calculated			
V 292.402†	1.2	-0.090 ug/L	0.1584	-0.090 ug/L	0.1584	175.01%
QC value within limits for V	292.402	Recovery =	Not calculated			
Zn 206.200†	48.1	5.93 ug/L	0.388	5.93 ug/L	0.388	6.53%
QC value greater than the upper limit for Zn	206.200	Recovery =	Not calculated			
QC Failed.	Continue with analysis.					

Sequence No.: 33
 Sample ID: 128613MB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 58
 Date Collected: 5/3/2012 1:06:53 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 128613MB

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	294069.5		102 %	1.6			1.58%
Sc 361.383	2514479.8		101 %	1.0			0.98%
Ag 328.068†	-7.2		0.267 ug/L	0.0889	0.267 ug/L	0.0889	33.32%
Al 308.215†	1.1		3.09 ug/L	6.591	3.09 ug/L	6.591	213.12%
As 188.979†	-0.7		-4.18 ug/L	0.866	-4.18 ug/L	0.866	20.73%
Ba 233.527†	13.3		0.152 ug/L	0.0308	0.152 ug/L	0.0308	20.30%
Be 234.861†	-20.1		-0.024 ug/L	0.0209	-0.024 ug/L	0.0209	87.56%
Ca 315.887†	514.5		59.0 ug/L	3.84	59.0 ug/L	3.84	6.51%
Cd 226.502†	-2.5		-0.174 ug/L	0.2673	-0.174 ug/L	0.2673	153.47%
Co 228.616†	-6.7		-0.274 ug/L	0.0659	-0.274 ug/L	0.0659	24.10%
Cr 267.716†	3.8		0.132 ug/L	0.0854	0.132 ug/L	0.0854	64.66%
Cu 324.752†	564.8		2.21 ug/L	0.061	2.21 ug/L	0.061	2.76%
Fe 259.939†	304.0		20.5 ug/L	2.74	20.5 ug/L	2.74	13.37%
K 766.490†	286.0		16.1 ug/L	11.85	16.1 ug/L	11.85	73.65%
Mg 279.077†	31.2		3.95 ug/L	0.226	3.95 ug/L	0.226	5.71%
Mn 257.610†	426.2		0.723 ug/L	0.0220	0.723 ug/L	0.0220	3.05%
Mo 202.031†	-1.0		0.462 ug/L	0.4616	0.462 ug/L	0.4616	99.90%
Na 589.592†	71.5		0.146 ug/L	0.8670	0.146 ug/L	0.8670	595.42%
Ni 231.604†	-6.5		-0.324 ug/L	0.6070	-0.324 ug/L	0.6070	187.36%
Pb 220.353†	0.5		1.93 ug/L	2.130	1.93 ug/L	2.130	110.61%
Sb 206.836†	-2.7		-1.57 ug/L	2.649	-1.57 ug/L	2.649	168.50%
Se 196.026†	-1.8		0.976 ug/L	3.8127	0.976 ug/L	3.8127	390.65%
Sn 189.927†	0.9		-3.60 ug/L	1.835	-3.60 ug/L	1.835	51.01%
Sr 421.552†	27.9		0.029 ug/L	0.0040	0.029 ug/L	0.0040	13.68%
Ti 334.940†	239.6		0.447 ug/L	0.0859	0.447 ug/L	0.0859	19.21%
Tl 190.801†	-0.2		1.72 ug/L	0.945	1.72 ug/L	0.945	54.86%
V 292.402†	-0.6		-0.134 ug/L	0.2706	-0.134 ug/L	0.2706	202.43%
Zn 206.200†	55.7		6.88 ug/L	0.239	6.88 ug/L	0.239	3.47%

Sequence No.: 34
 Sample ID: 128614LCS
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 59
 Date Collected: 5/3/2012 1:13:06 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 128614LCS

Analyte	Mean Corrected		Calib.		Sample		RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	
Sc Radial	288028.7	99.8	%	0.30			0.30%
Sc 361.383	2441242.9	97.8	%	0.84			0.85%
Ag 328.068†	24476.0	193	ug/L	2.8	193	ug/L	2.8 1.45%
Al 308.215†	87981.2	50800	ug/L	243.0	50800	ug/L	243.0 0.48%
As 188.979†	417.4	520	ug/L	8.5	520	ug/L	8.5 1.64%
Ba 233.527†	116289.4	1530	ug/L	15.5	1530	ug/L	15.5 1.02%
Be 234.861†	97277.8	519	ug/L	1.4	519	ug/L	1.4 0.28%
Ca 315.887†	369116.8	50700	ug/L	178.8	50700	ug/L	178.8 0.35%
Cd 226.502†	3203.3	507	ug/L	4.2	507	ug/L	4.2 0.82%
Co 228.616†	9606.6	510	ug/L	7.2	510	ug/L	7.2 1.42%
Cr 267.716†	16601.6	515	ug/L	5.5	515	ug/L	5.5 1.06%
Cu 324.752†	151959.6	506	ug/L	0.7	506	ug/L	0.7 0.13%
Fe 259.939†	615123.7	51000	ug/L	182.7	51000	ug/L	182.7 0.36%
K 766.490†	221430.0	51200	ug/L	149.7	51200	ug/L	149.7 0.29%
Mg 279.077†	450308.9	49600	ug/L	184.3	49600	ug/L	184.3 0.37%
Mn 257.610†	236383.1	516	ug/L	1.2	516	ug/L	1.2 0.24%
Mo 202.031†	1678.6	524	ug/L	5.8	524	ug/L	5.8 1.10%
Na 589.592†	489865.3	50900	ug/L	240.9	50900	ug/L	240.9 0.47%
Ni 231.604†	4574.4	512	ug/L	4.5	512	ug/L	4.5 0.87%
Pb 220.353†	780.5	516	ug/L	10.1	516	ug/L	10.1 1.95%
Sb 206.836†	743.6	513	ug/L	2.7	513	ug/L	2.7 0.53%
Se 196.026†	276.4	494	ug/L	15.2	494	ug/L	15.2 3.08%
Sn 189.927†	673.6	547	ug/L	6.9	547	ug/L	6.9 1.25%
Sr 421.552†	308009.4	503	ug/L	2.6	503	ug/L	2.6 0.52%
Ti 334.940†	293108.4	540	ug/L	0.3	540	ug/L	0.3 0.06%
Tl 190.801†	521.6	503	ug/L	8.2	503	ug/L	8.2 1.63%
V 292.402†	21448.2	528	ug/L	8.4	528	ug/L	8.4 1.59%
Zn 206.200†	4182.9	520	ug/L	4.8	520	ug/L	4.8 0.92%

Sequence No.: 35
 Sample ID: 128615LCSD
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 60
 Date Collected: 5/3/2012 1:18:19 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 128615LCSD

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	276968.2	95.9 %	0.97			1.01%
Sc 361.383	2315836.8	92.8 %	0.78			0.84%
Ag 328.068†	25657.3	202 ug/L	1.3	202 ug/L	1.3	0.62%
Al 308.215†	89986.9	52000 ug/L	111.2	52000 ug/L	111.2	0.21%
As 188.979†	432.2	538 ug/L	4.8	538 ug/L	4.8	0.90%
Ba 233.527†	121449.4	1600 ug/L	14.5	1600 ug/L	14.5	0.91%
Be 234.861†	101614.1	542 ug/L	2.5	542 ug/L	2.5	0.46%
Ca 315.887†	378355.0	52000 ug/L	213.8	52000 ug/L	213.8	0.41%
Cd 226.502†	3334.6	528 ug/L	1.1	528 ug/L	1.1	0.20%
Co 228.616†	9979.5	530 ug/L	3.2	530 ug/L	3.2	0.60%
Cr 267.716†	17286.6	536 ug/L	4.3	536 ug/L	4.3	0.80%
Cu 324.752†	158256.1	527 ug/L	3.4	527 ug/L	3.4	0.64%
Fe 259.939†	630876.3	52300 ug/L	232.4	52300 ug/L	232.4	0.44%
K 766.490†	226816.9	52500 ug/L	99.3	52500 ug/L	99.3	0.19%
Mg 279.077†	461886.7	50900 ug/L	393.2	50900 ug/L	393.2	0.77%
Mn 257.610†	246687.2	539 ug/L	1.8	539 ug/L	1.8	0.34%
Mo 202.031†	1744.3	545 ug/L	2.6	545 ug/L	2.6	0.49%
Na 589.592†	503648.2	52300 ug/L	82.7	52300 ug/L	82.7	0.16%
Ni 231.604†	4748.9	532 ug/L	3.3	532 ug/L	3.3	0.62%
Pb 220.353†	815.0	539 ug/L	2.6	539 ug/L	2.6	0.47%
Sb 206.836†	777.4	536 ug/L	2.6	536 ug/L	2.6	0.49%
Se 196.026†	289.3	517 ug/L	7.4	517 ug/L	7.4	1.43%
Sn 189.927†	701.4	570 ug/L	2.5	570 ug/L	2.5	0.44%
Sr 421.552†	318755.1	521 ug/L	0.7	521 ug/L	0.7	0.14%
Ti 334.940†	305938.8	564 ug/L	3.4	564 ug/L	3.4	0.61%
Tl 190.801†	546.0	527 ug/L	2.0	527 ug/L	2.0	0.37%
V 292.402†	22537.9	554 ug/L	2.4	554 ug/L	2.4	0.44%
Zn 206.200†	4357.7	542 ug/L	5.3	542 ug/L	5.3	0.98%

Sequence No.: 36
 Sample ID: 350588801
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 61
 Date Collected: 5/3/2012 1:23:32 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350588801

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	291522.6	101 %	1.2			1.15%
Sc 361.383	2517827.1	101 %	0.7			0.67%
Ag 328.068†	-192.0	-0.707 ug/L	0.1662	-0.707 ug/L	0.1662	23.52%
Al 308.215†	146710.8	84700 ug/L	125.6	84700 ug/L	125.6	0.15%
As 188.979†	14.8	18.9 ug/L	4.20	18.9 ug/L	4.20	22.20%
Ba 233.527†	40940.5	537 ug/L	5.2	537 ug/L	5.2	0.98%
Be 234.861†	434.3	3.26 ug/L	0.147	3.26 ug/L	0.147	4.51%
Ca 315.887†	160747.1	22100 ug/L	57.8	22100 ug/L	57.8	0.26%
Cd 226.502†	30.6	-1.10 ug/L	0.293	-1.10 ug/L	0.293	26.59%
Co 228.616†	447.8	21.0 ug/L	0.25	21.0 ug/L	0.25	1.18%
Cr 267.716†	2725.8	85.0 ug/L	0.86	85.0 ug/L	0.86	1.02%
Cu 324.752†	11907.5	39.5 ug/L	0.33	39.5 ug/L	0.33	0.85%
Fe 259.939†	520234.1	43100 ug/L	126.1	43100 ug/L	126.1	0.29%
K 766.490†	24886.3	5710 ug/L	23.8	5710 ug/L	23.8	0.42%
Mg 279.077†	139326.1	15400 ug/L	197.1	15400 ug/L	197.1	1.28%
Mn 257.610†	153523.1	335 ug/L	3.3	335 ug/L	3.3	0.97%
Mo 202.031†	16.1	7.42 ug/L	0.615	7.42 ug/L	0.615	8.29%
Na 589.592†	178290.9	18500 ug/L	13.1	18500 ug/L	13.1	0.07%
Ni 231.604†	477.4	53.0 ug/L	1.03	53.0 ug/L	1.03	1.93%
Pb 220.353†	855.7	569 ug/L	7.3	569 ug/L	7.3	1.29%
Sb 206.836†	3.3	2.22 ug/L	1.487	2.22 ug/L	1.487	67.08%
Se 196.026†	0.5	7.00 ug/L	8.157	7.00 ug/L	8.157	116.45%
Sn 189.927†	-1.0	-0.115 ug/L	4.1781	-0.115 ug/L	4.1781	>999.9%
Sr 421.552†	208398.4	340 ug/L	0.0	340 ug/L	0.0	0.01%
Ti 334.940†	514481.1	948 ug/L	11.6	948 ug/L	11.6	1.23%
Tl 190.801†	-4.4	-0.560 ug/L	2.5138	-0.560 ug/L	2.5138	448.77%
V 292.402†	5275.6	129 ug/L	2.1	129 ug/L	2.1	1.65%
Zn 206.200†	1538.4	190 ug/L	2.0	190 ug/L	2.0	1.06%

Sequence No.: 37
 Sample ID: 350588801L
 Analyst:
 Initial Sample Wt:
 Dilution: 5X

Autosampler Location: 62
 Date Collected: 5/3/2012 1:28:45 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350588801L

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	293576.8		102 %	0.5			0.51%
Sc 361.383	2534218.9		102 %	0.3			0.27%
Ag 328.068†	-11.3		0.330 ug/L	0.2569	1.65 ug/L	1.284	77.93%
Al 308.215†	28711.2		16600 ug/L	39.7	82900 ug/L	198.5	0.24%
As 188.979†	2.3		0.332 ug/L	3.1364	1.66 ug/L	15.682	945.09%
Ba 233.527†	8106.9		106 ug/L	0.4	532 ug/L	2.2	0.41%
Be 234.861†	101.5		0.796 ug/L	0.0139	3.98 ug/L	0.069	1.74%
Ca 315.887†	32001.1		4380 ug/L	10.1	21900 ug/L	50.3	0.23%
Cd 226.502†	4.2		-0.357 ug/L	0.1882	-1.79 ug/L	0.941	52.65%
Co 228.616†	89.5		4.27 ug/L	0.370	21.3 ug/L	1.85	8.67%
Cr 267.716†	544.8		17.0 ug/L	0.12	85.0 ug/L	0.60	0.71%
Cu 324.752†	2573.3		8.79 ug/L	0.087	44.0 ug/L	0.44	0.99%
Fe 259.939†	104774.2		8680 ug/L	4.0	43400 ug/L	20.0	0.05%
K 766.490†	4795.8		1060 ug/L	11.0	5300 ug/L	54.8	1.03%
Mg 279.077†	27810.2		3060 ug/L	15.7	15300 ug/L	78.5	0.51%
Mn 257.610†	30631.5		66.7 ug/L	0.26	334 ug/L	1.3	0.38%
Mo 202.031†	3.0		2.05 ug/L	0.899	10.2 ug/L	4.49	43.85%
Na 589.592†	34837.7		3610 ug/L	15.6	18100 ug/L	78.2	0.43%
Ni 231.604†	96.5		11.0 ug/L	0.34	55.2 ug/L	1.72	3.11%
Pb 220.353†	173.8		117 ug/L	1.1	584 ug/L	5.6	0.96%
Sb 206.836†	1.3		1.13 ug/L	0.848	5.67 ug/L	4.238	74.68%
Se 196.026†	-0.6		3.62 ug/L	0.436	18.1 ug/L	2.18	12.04%
Sn 189.927†	3.0		-0.890 ug/L	0.5350	-4.45 ug/L	2.675	60.12%
Sr 421.552†	40916.1		66.8 ug/L	0.20	334 ug/L	1.0	0.30%
Ti 334.940†	99497.9		183 ug/L	0.7	917 ug/L	3.4	0.37%
Tl 190.801†	-0.6		1.75 ug/L	2.350	8.73 ug/L	11.749	134.55%
V 292.402†	1032.5		25.2 ug/L	0.14	126 ug/L	0.7	0.55%
Zn 206.200†	344.4		42.6 ug/L	0.51	213 ug/L	2.5	1.20%

Sequence No.: 38
 Sample ID: 128616MS
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 63
 Date Collected: 5/3/2012 1:33:56 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 128616MS

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	280997.5	97.3 %	0.33			0.34%
Sc 361.383	2368972.9	94.9 %	0.66			0.70%
Ag 328.068†	24604.5	194 ug/L	4.3	194 ug/L	4.3	2.20%
Al 308.215†	323643.5	187000 ug/L	543.3	187000 ug/L	543.3	0.29%
As 188.979†	438.5	550 ug/L	12.5	550 ug/L	12.5	2.28%
Ba 233.527†	162395.2	2130 ug/L	18.3	2130 ug/L	18.3	0.86%
Be 234.861†	99508.7	532 ug/L	5.1	532 ug/L	5.1	0.96%
Ca 315.887†	513664.5	70500 ug/L	383.3	70500 ug/L	383.3	0.54%
Cd 226.502†	3193.9	499 ug/L	6.1	499 ug/L	6.1	1.21%
Co 228.616†	10225.6	540 ug/L	8.4	540 ug/L	8.4	1.56%
Cr 267.716†	20286.9	630 ug/L	10.5	630 ug/L	10.5	1.67%
Cu 324.752†	173040.1	575 ug/L	5.8	575 ug/L	5.8	1.00%
Fe 259.939†	1195953.6	99100 ug/L	385.6	99100 ug/L	385.6	0.39%
K 766.490†	252625.6	58400 ug/L	327.8	58400 ug/L	327.8	0.56%
Mg 279.077†	606323.6	66800 ug/L	198.2	66800 ug/L	198.2	0.30%
Mn 257.610†	410883.0	898 ug/L	5.1	898 ug/L	5.1	0.56%
Mo 202.031†	1661.8	521 ug/L	7.0	521 ug/L	7.0	1.34%
Na 589.592†	659719.0	68600 ug/L	386.8	68600 ug/L	386.8	0.56%
Ni 231.604†	5245.6	586 ug/L	5.6	586 ug/L	5.6	0.95%
Pb 220.353†	1591.6	1060 ug/L	11.0	1060 ug/L	11.0	1.04%
Sb 206.836†	533.0	366 ug/L	4.7	366 ug/L	4.7	1.28%
Se 196.026†	284.1	509 ug/L	9.7	509 ug/L	9.7	1.90%
Sn 189.927†	668.5	549 ug/L	3.4	549 ug/L	3.4	0.62%
Sr 421.552†	513989.1	840 ug/L	3.6	840 ug/L	3.6	0.43%
Ti 334.940†	912174.3	1680 ug/L	14.2	1680 ug/L	14.2	0.85%
Tl 190.801†	510.0	494 ug/L	4.0	494 ug/L	4.0	0.81%
V 292.402†	28534.0	702 ug/L	18.6	702 ug/L	18.6	2.66%
Zn 206.200†	6375.2	792 ug/L	20.9	792 ug/L	20.9	2.64%

Sequence No.: 39
 Sample ID: 128617MSD
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 64
 Date Collected: 5/3/2012 1:39:11 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 128617MSD

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	284167.7	98.4 %	1.08			1.10%
Sc 361.383	2406436.1	96.4 %	1.68			1.75%
Ag 328.068†	24140.6	190 ug/L	2.7	190 ug/L	2.7	1.43%
Al 308.215†	240902.7	139000 ug/L	389.7	139000 ug/L	389.7	0.28%
As 188.979†	430.7	539 ug/L	14.1	539 ug/L	14.1	2.62%
Ba 233.527†	144643.2	1900 ug/L	20.2	1900 ug/L	20.2	1.06%
Be 234.861†	95972.3	513 ug/L	8.1	513 ug/L	8.1	1.59%
Ca 315.887†	513510.5	70500 ug/L	346.4	70500 ug/L	346.4	0.49%
Cd 226.502†	3123.1	490 ug/L	11.9	490 ug/L	11.9	2.42%
Co 228.616†	9832.7	520 ug/L	9.7	520 ug/L	9.7	1.87%
Cr 267.716†	18698.8	581 ug/L	13.1	581 ug/L	13.1	2.26%
Cu 324.752†	163755.9	545 ug/L	6.6	545 ug/L	6.6	1.22%
Fe 259.939†	1018148.5	84400 ug/L	496.8	84400 ug/L	496.8	0.59%
K 766.490†	242780.8	56200 ug/L	22.9	56200 ug/L	22.9	0.04%
Mg 279.077†	554827.9	61100 ug/L	1096.0	61100 ug/L	1096.0	1.79%
Mn 257.610†	346418.2	757 ug/L	9.3	757 ug/L	9.3	1.22%
Mo 202.031†	1632.1	511 ug/L	10.4	511 ug/L	10.4	2.04%
Na 589.592†	653047.4	67900 ug/L	121.5	67900 ug/L	121.5	0.18%
Ni 231.604†	4915.4	550 ug/L	12.0	550 ug/L	12.0	2.18%
Pb 220.353†	4310.1	2840 ug/L	60.2	2840 ug/L	60.2	2.12%
Sb 206.836†	560.5	385 ug/L	11.0	385 ug/L	11.0	2.87%
Se 196.026†	284.4	510 ug/L	16.1	510 ug/L	16.1	3.16%
Sn 189.927†	659.4	540 ug/L	9.3	540 ug/L	9.3	1.73%
Sr 421.552†	504644.1	824 ug/L	1.2	824 ug/L	1.2	0.15%
Ti 334.940†	720055.3	1330 ug/L	14.8	1330 ug/L	14.8	1.12%
Tl 190.801†	502.5	486 ug/L	10.7	486 ug/L	10.7	2.20%
V 292.402†	26157.1	643 ug/L	11.8	643 ug/L	11.8	1.84%
Zn 206.200†	5586.3	694 ug/L	6.5	694 ug/L	6.5	0.93%

Sequence No.: 40
 Sample ID: 350588801A
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 65
 Date Collected: 5/3/2012 1:44:26 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350588801A

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	292791.0	101 %	0.8			0.76%
Sc 361.383	2460013.8	98.6 %	0.34			0.35%
Ag 328.068†	25147.9	198 ug/L	0.3	198 ug/L	0.3	0.17%
Al 308.215†	226695.4	131000 ug/L	664.0	131000 ug/L	664.0	0.51%
As 188.979†	429.8	539 ug/L	5.1	539 ug/L	5.1	0.95%
Ba 233.527†	151198.0	1990 ug/L	4.0	1990 ug/L	4.0	0.20%
Be 234.861†	99379.4	531 ug/L	6.1	531 ug/L	6.1	1.15%
Ca 315.887†	512030.7	70300 ug/L	267.2	70300 ug/L	267.2	0.38%
Cd 226.502†	3181.3	498 ug/L	2.6	498 ug/L	2.6	0.53%
Co 228.616†	9936.9	525 ug/L	0.8	525 ug/L	0.8	0.15%
Cr 267.716†	18852.6	586 ug/L	0.9	586 ug/L	0.9	0.16%
Cu 324.752†	168020.1	559 ug/L	3.6	559 ug/L	3.6	0.64%
Fe 259.939†	1081772.0	89700 ug/L	328.3	89700 ug/L	328.3	0.37%
K 766.490†	244557.9	56600 ug/L	181.6	56600 ug/L	181.6	0.32%
Mg 279.077†	569046.1	62700 ug/L	295.7	62700 ug/L	295.7	0.47%
Mn 257.610†	378706.1	827 ug/L	4.4	827 ug/L	4.4	0.53%
Mo 202.031†	1640.9	514 ug/L	3.3	514 ug/L	3.3	0.64%
Na 589.592†	655522.2	68100 ug/L	252.4	68100 ug/L	252.4	0.37%
Ni 231.604†	4953.6	554 ug/L	3.5	554 ug/L	3.5	0.64%
Pb 220.353†	1556.6	1030 ug/L	7.4	1030 ug/L	7.4	0.71%
Sb 206.836†	689.4	475 ug/L	6.6	475 ug/L	6.6	1.40%
Se 196.026†	285.8	512 ug/L	7.7	512 ug/L	7.7	1.50%
Sn 189.927†	658.6	540 ug/L	8.2	540 ug/L	8.2	1.51%
Sr 421.552†	499970.5	817 ug/L	2.8	817 ug/L	2.8	0.35%
Ti 334.940†	771023.8	1420 ug/L	4.5	1420 ug/L	4.5	0.32%
Tl 190.801†	515.8	499 ug/L	7.3	499 ug/L	7.3	1.46%
V 292.402†	26167.9	643 ug/L	1.4	643 ug/L	1.4	0.23%
Zn 206.200†	5510.5	685 ug/L	3.4	685 ug/L	3.4	0.49%

Sequence No.: 41
Sample ID: 350588802
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 66
Date Collected: 5/3/2012 1:49:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 350588802

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	294947.5		102 %	0.7			0.65%
Sc 361.383	2480580.2		99.4 %	0.59			0.60%
Ag 328.068†	-662.5		-2.74 ug/L	0.312	-2.74 ug/L	0.312	11.39%
Al 308.215†	254711.7		147000 ug/L	317.8	147000 ug/L	317.8	0.22%
As 188.979†	36.7		58.7 ug/L	6.36	58.7 ug/L	6.36	10.84%
Ba 233.527†	53108.7		694 ug/L	5.7	694 ug/L	5.7	0.82%
Be 234.861†	392.5		6.04 ug/L	0.522	6.04 ug/L	0.522	8.64%
Ca 315.887†	28073.6		3840 ug/L	8.4	3840 ug/L	8.4	0.22%
Cd 226.502†	147.1		-4.17 ug/L	0.992	-4.17 ug/L	0.992	23.78%
Co 228.616†	929.1		41.6 ug/L	0.16	41.6 ug/L	0.16	0.37%
Cr 267.716†	5083.1		160 ug/L	1.3	160 ug/L	1.3	0.83%
Cu 324.752†	27112.7		89.6 ug/L	0.58	89.6 ug/L	0.58	0.64%
Fe 259.939†	2333214.0		193000 ug/L	3274.0	193000 ug/L	3274.0	1.69%
K 766.490†	20138.2		4610 ug/L	48.1	4610 ug/L	48.1	1.04%
Mg 279.077†	132079.2		14600 ug/L	124.5	14600 ug/L	124.5	0.86%
Mn 257.610†	298715.3		651 ug/L	2.5	651 ug/L	2.5	0.39%
Mo 202.031†	15.3		12.9 ug/L	1.45	12.9 ug/L	1.45	11.23%
Na 589.592†	10433.7		1080 ug/L	3.2	1080 ug/L	3.2	0.30%
Ni 231.604†	906.9		98.1 ug/L	0.36	98.1 ug/L	0.36	0.36%
Pb 220.353†	344.6		230 ug/L	3.2	230 ug/L	3.2	1.38%
Sb 206.836†	11.6		3.19 ug/L	4.234	3.19 ug/L	4.234	132.57%
Se 196.026†	-9.5		-11.9 ug/L	14.52	-11.9 ug/L	14.52	122.30%
Sn 189.927†	46.4		31.4 ug/L	0.75	31.4 ug/L	0.75	2.40%
Sr 421.552†	30731.8		50.2 ug/L	0.04	50.2 ug/L	0.04	0.08%
Ti 334.940†	707132.3		1300 ug/L	2.2	1300 ug/L	2.2	0.17%
Tl 190.801†	-10.0		-3.51 ug/L	3.938	-3.51 ug/L	3.938	112.16%
V 292.402†	10967.2		268 ug/L	2.8	268 ug/L	2.8	1.06%
Zn 206.200†	3635.4		446 ug/L	2.6	446 ug/L	2.6	0.59%

Sequence No.: 42
 Sample ID: 350588803
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 67
 Date Collected: 5/3/2012 1:54:59 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350588803

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	286016.6		99.1 %	0.91			0.92%
Sc 361.383	2404484.8		96.3 %	0.44			0.46%
Ag 328.068†	32.5		1.10 ug/L	0.316	1.10 ug/L	0.316	28.65%
Al 308.215†	75835.6		43800 ug/L	60.3	43800 ug/L	60.3	0.14%
As 188.979†	2054.4		2540 ug/L	12.7	2540 ug/L	12.7	0.50%
Ba 233.527†	23517.5		308 ug/L	3.0	308 ug/L	3.0	0.97%
Be 234.861†	209.8		2.15 ug/L	0.147	2.15 ug/L	0.147	6.80%
Ca 315.887†	157160.1		21600 ug/L	33.9	21600 ug/L	33.9	0.16%
Cd 226.502†	45.4		0.602 ug/L	0.3017	0.602 ug/L	0.3017	50.12%
Co 228.616†	271.4		12.1 ug/L	0.25	12.1 ug/L	0.25	2.05%
Cr 267.716†	1665.2		52.2 ug/L	0.40	52.2 ug/L	0.40	0.76%
Cu 324.752†	31574.3		105 ug/L	1.6	105 ug/L	1.6	1.50%
Fe 259.939†	576477.4		47800 ug/L	74.6	47800 ug/L	74.6	0.16%
K 766.490†	16597.7		3790 ug/L	34.1	3790 ug/L	34.1	0.90%
Mg 279.077†	134443.1		14800 ug/L	19.3	14800 ug/L	19.3	0.13%
Mn 257.610†	164891.7		360 ug/L	3.3	360 ug/L	3.3	0.91%
Mo 202.031†	21.8		9.37 ug/L	1.173	9.37 ug/L	1.173	12.52%
Na 589.592†	138880.6		14400 ug/L	35.5	14400 ug/L	35.5	0.25%
Ni 231.604†	365.2		40.4 ug/L	0.49	40.4 ug/L	0.49	1.22%
Pb 220.353†	1070.0		706 ug/L	1.6	706 ug/L	1.6	0.22%
Sb 206.836†	6.9		4.16 ug/L	3.497	4.16 ug/L	3.497	84.06%
Se 196.026†	3.4		12.1 ug/L	11.88	12.1 ug/L	11.88	98.55%
Sn 189.927†	11.0		7.49 ug/L	3.928	7.49 ug/L	3.928	52.47%
Sr 421.552†	157068.7		257 ug/L	0.8	257 ug/L	0.8	0.31%
Ti 334.940†	309196.0		570 ug/L	3.5	570 ug/L	3.5	0.61%
Tl 190.801†	-5.0		-1.45 ug/L	3.004	-1.45 ug/L	3.004	206.89%
V 292.402†	3214.5		78.6 ug/L	0.33	78.6 ug/L	0.33	0.41%
Zn 206.200†	3916.7		486 ug/L	2.0	486 ug/L	2.0	0.42%

Sequence No.: 43
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 5/3/2012 2:00:11 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	291687.1	101 %	0.5			0.52%
Sc 361.383	2487506.7	99.7 %	1.07			1.08%
Ag 328.068†	64871.7	509 ug/L	4.0	509 ug/L	4.0	0.79%
QC value within limits for Ag	328.068	Recovery =	101.78%			
Al 308.215†	43272.8	25000 ug/L	51.3	25000 ug/L	51.3	0.21%
QC value within limits for Al	308.215	Recovery =	99.95%			
As 188.979†	415.2	516 ug/L	4.5	516 ug/L	4.5	0.87%
QC value within limits for As	188.979	Recovery =	103.25%			
Ba 233.527†	39016.6	512 ug/L	3.1	512 ug/L	3.1	0.61%
QC value within limits for Ba	233.527	Recovery =	102.45%			
Be 234.861†	94575.1	504 ug/L	3.3	504 ug/L	3.3	0.65%
QC value within limits for Be	234.861	Recovery =	100.85%			
Ca 315.887†	182066.8	25000 ug/L	28.3	25000 ug/L	28.3	0.11%
QC value within limits for Ca	315.887	Recovery =	99.98%			
Cd 226.502†	3181.2	505 ug/L	7.4	505 ug/L	7.4	1.47%
QC value within limits for Cd	226.502	Recovery =	101.06%			
Co 228.616†	9636.1	512 ug/L	2.3	512 ug/L	2.3	0.45%
QC value within limits for Co	228.616	Recovery =	102.43%			
Cr 267.716†	16304.0	506 ug/L	3.9	506 ug/L	3.9	0.76%
QC value within limits for Cr	267.716	Recovery =	101.18%			
Cu 324.752†	145497.1	484 ug/L	2.4	484 ug/L	2.4	0.49%
QC value within limits for Cu	324.752	Recovery =	96.85%			
Fe 259.939†	494889.0	41000 ug/L	63.2	41000 ug/L	63.2	0.15%
QC value within limits for Fe	259.939	Recovery =	102.54%			
K 766.490†	109044.5	25200 ug/L	75.7	25200 ug/L	75.7	0.30%
QC value within limits for K	766.490	Recovery =	100.79%			
Mg 279.077†	231472.7	25500 ug/L	513.3	25500 ug/L	513.3	2.01%
QC value within limits for Mg	279.077	Recovery =	102.01%			
Mn 257.610†	229376.2	501 ug/L	2.0	501 ug/L	2.0	0.39%
QC value within limits for Mn	257.610	Recovery =	100.25%			
Mo 202.031†	1611.7	503 ug/L	5.1	503 ug/L	5.1	1.01%
QC value within limits for Mo	202.031	Recovery =	100.62%			
Na 589.592†	242834.5	25200 ug/L	25.0	25200 ug/L	25.0	0.10%
QC value within limits for Na	589.592	Recovery =	100.93%			
Ni 231.604†	4522.7	507 ug/L	4.5	507 ug/L	4.5	0.88%
QC value within limits for Ni	231.604	Recovery =	101.32%			
Pb 220.353†	775.5	512 ug/L	8.2	512 ug/L	8.2	1.59%
QC value within limits for Pb	220.353	Recovery =	102.31%			
Sb 206.836†	742.9	512 ug/L	5.6	512 ug/L	5.6	1.09%
QC value within limits for Sb	206.836	Recovery =	102.48%			
Se 196.026†	280.8	500 ug/L	15.6	500 ug/L	15.6	3.12%
QC value within limits for Se	196.026	Recovery =	99.96%			
Sn 189.927†	517.6	418 ug/L	2.1	418 ug/L	2.1	0.49%
QC value within limits for Sn	189.927	Recovery =	104.46%			
Sr 421.552†	247862.4	405 ug/L	0.9	405 ug/L	0.9	0.22%
QC value within limits for Sr	421.552	Recovery =	101.22%			
Ti 334.940†	218817.0	403 ug/L	2.1	403 ug/L	2.1	0.53%
QC value within limits for Ti	334.940	Recovery =	100.81%			
Tl 190.801†	532.6	513 ug/L	7.2	513 ug/L	7.2	1.40%
QC value within limits for Tl	190.801	Recovery =	102.66%			
V 292.402†	20958.0	516 ug/L	1.4	516 ug/L	1.4	0.26%
QC value within limits for V	292.402	Recovery =	103.11%			
Zn 206.200†	4200.3	523 ug/L	6.6	523 ug/L	6.6	1.25%
QC value within limits for Zn	206.200	Recovery =	104.57%			

All analyte(s) passed QC.

Sequence No.: 44
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 5/3/2012 2:05:23 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	285020.4	98.7 %	0.59			0.60%
Sc 361.383	2500608.8	100 %	2.1			2.09%
Ag 328.068†	8.0	0.386 ug/L	0.0395	0.386 ug/L	0.0395	10.25%
QC value within limits for Ag	328.068	Recovery =	Not calculated			
Al 308.215†	24.2	16.4 ug/L	5.45	16.4 ug/L	5.45	33.14%
QC value within limits for Al	308.215	Recovery =	Not calculated			
As 188.979†	1.2	-1.90 ug/L	1.703	-1.90 ug/L	1.703	89.86%
QC value within limits for As	188.979	Recovery =	Not calculated			
Ba 233.527†	11.7	0.130 ug/L	0.0414	0.130 ug/L	0.0414	31.77%
QC value within limits for Ba	233.527	Recovery =	Not calculated			
Be 234.861†	9.8	0.135 ug/L	0.0237	0.135 ug/L	0.0237	17.51%
QC value within limits for Be	234.861	Recovery =	Not calculated			
Ca 315.887†	45.2	-5.43 ug/L	1.192	-5.43 ug/L	1.192	21.94%
QC value within limits for Ca	315.887	Recovery =	Not calculated			
Cd 226.502†	-2.3	-0.143 ug/L	0.1554	-0.143 ug/L	0.1554	108.45%
QC value within limits for Cd	226.502	Recovery =	Not calculated			
Co 228.616†	1.6	0.169 ug/L	0.0918	0.169 ug/L	0.0918	54.35%
QC value within limits for Co	228.616	Recovery =	Not calculated			
Cr 267.716†	-8.3	-0.243 ug/L	0.0870	-0.243 ug/L	0.0870	35.75%
QC value within limits for Cr	267.716	Recovery =	Not calculated			
Cu 324.752†	326.6	1.41 ug/L	0.430	1.41 ug/L	0.430	30.46%
QC value within limits for Cu	324.752	Recovery =	Not calculated			
Fe 259.939†	236.8	14.9 ug/L	0.09	14.9 ug/L	0.09	0.61%
QC value within limits for Fe	259.939	Recovery =	Not calculated			
K 766.490†	-30.8	-57.2 ug/L	24.76	-57.2 ug/L	24.76	43.24%
QC value within limits for K	766.490	Recovery =	Not calculated			
Mg 279.077†	30.3	3.84 ug/L	0.519	3.84 ug/L	0.519	13.49%
QC value within limits for Mg	279.077	Recovery =	Not calculated			
Mn 257.610†	30.7	-0.142 ug/L	0.0282	-0.142 ug/L	0.0282	19.82%
QC value within limits for Mn	257.610	Recovery =	Not calculated			
Mo 202.031†	-0.0	0.771 ug/L	0.4897	0.771 ug/L	0.4897	63.49%
QC value within limits for Mo	202.031	Recovery =	Not calculated			
Na 589.592†	19.0	-5.31 ug/L	8.811	-5.31 ug/L	8.811	166.05%
QC value within limits for Na	589.592	Recovery =	Not calculated			
Ni 231.604†	0.6	0.468 ug/L	0.4114	0.468 ug/L	0.4114	87.87%
QC value within limits for Ni	231.604	Recovery =	Not calculated			
Pb 220.353†	-1.5	0.593 ug/L	0.6160	0.593 ug/L	0.6160	103.86%
QC value within limits for Pb	220.353	Recovery =	Not calculated			
Sb 206.836†	-1.4	-0.629 ug/L	1.3434	-0.629 ug/L	1.3434	213.57%
QC value within limits for Sb	206.836	Recovery =	Not calculated			
Se 196.026†	-0.9	2.59 ug/L	3.203	2.59 ug/L	3.203	123.88%
QC value within limits for Se	196.026	Recovery =	Not calculated			
Sn 189.927†	2.9	-2.00 ug/L	1.247	-2.00 ug/L	1.247	62.32%
QC value within limits for Sn	189.927	Recovery =	Not calculated			
Sr 421.552†	44.9	0.057 ug/L	0.0117	0.057 ug/L	0.0117	20.59%
QC value within limits for Sr	421.552	Recovery =	Not calculated			
Ti 334.940†	54.6	0.106 ug/L	0.1060	0.106 ug/L	0.1060	99.71%
QC value within limits for Ti	334.940	Recovery =	Not calculated			
Tl 190.801†	1.3	3.17 ug/L	3.740	3.17 ug/L	3.740	118.13%
QC value within limits for Tl	190.801	Recovery =	Not calculated			
V 292.402†	0.4	-0.111 ug/L	0.1956	-0.111 ug/L	0.1956	175.62%
QC value within limits for V	292.402	Recovery =	Not calculated			
Zn 206.200†	4.8	0.534 ug/L	0.2544	0.534 ug/L	0.2544	47.66%
QC value within limits for Zn	206.200	Recovery =	Not calculated			

All analyte(s) passed QC.

Sequence No.: 45
 Sample ID: 350588804
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 68
 Date Collected: 5/3/2012 2:11:32 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350588804

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	294770.9	102 %	1.2			1.16%
Sc 361.383	2486775.3	99.6 %	0.83			0.84%
Ag 328.068†	202.5	2.50 ug/L	0.349	2.50 ug/L	0.349	13.95%
Al 308.215†	122284.1	70600 ug/L	144.8	70600 ug/L	144.8	0.21%
As 188.979†	16.2	21.5 ug/L	5.93	21.5 ug/L	5.93	27.53%
Ba 233.527†	59141.4	777 ug/L	9.9	777 ug/L	9.9	1.28%
Be 234.861†	292.2	2.72 ug/L	0.089	2.72 ug/L	0.089	3.28%
Ca 315.887†	140133.8	19200 ug/L	85.9	19200 ug/L	85.9	0.45%
Cd 226.502†	43.5	-0.613 ug/L	0.4981	-0.613 ug/L	0.4981	81.19%
Co 228.616†	514.4	24.4 ug/L	0.49	24.4 ug/L	0.49	2.02%
Cr 267.716†	2441.6	76.4 ug/L	1.00	76.4 ug/L	1.00	1.31%
Cu 324.752†	13112.6	43.4 ug/L	0.57	43.4 ug/L	0.57	1.32%
Fe 259.939†	651660.2	54000 ug/L	754.3	54000 ug/L	754.3	1.40%
K 766.490†	23988.5	5500 ug/L	15.1	5500 ug/L	15.1	0.27%
Mg 279.077†	129318.3	14200 ug/L	185.2	14200 ug/L	185.2	1.30%
Mn 257.610†	181676.7	397 ug/L	0.5	397 ug/L	0.5	0.13%
Mo 202.031†	18.2	8.49 ug/L	1.123	8.49 ug/L	1.123	13.22%
Na 589.592†	241742.6	25100 ug/L	45.6	25100 ug/L	45.6	0.18%
Ni 231.604†	443.9	49.1 ug/L	1.68	49.1 ug/L	1.68	3.42%
Pb 220.353†	199.5	136 ug/L	2.6	136 ug/L	2.6	1.89%
Sb 206.836†	3.0	1.44 ug/L	4.480	1.44 ug/L	4.480	310.87%
Se 196.026†	4.1	13.0 ug/L	6.68	13.0 ug/L	6.68	51.41%
Sn 189.927†	7.5	5.37 ug/L	3.594	5.37 ug/L	3.594	66.88%
Sr 421.552†	121717.7	199 ug/L	0.8	199 ug/L	0.8	0.38%
Ti 334.940†	439639.9	810 ug/L	0.9	810 ug/L	0.9	0.11%
Tl 190.801†	-6.8	-2.84 ug/L	4.308	-2.84 ug/L	4.308	151.52%
V 292.402†	4355.6	107 ug/L	1.5	107 ug/L	1.5	1.41%
Zn 206.200†	2046.7	253 ug/L	3.5	253 ug/L	3.5	1.38%

Sequence No.: 46
 Sample ID: 350588805
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 69
 Date Collected: 5/3/2012 2:16:50 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350588805

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	291947.8		101 %	0.9			0.93%
Sc 361.383	2478003.2		99.3 %	0.36			0.36%
Ag 328.068†	-182.9		-0.478 ug/L	0.2832	-0.478 ug/L	0.2832	59.31%
Al 308.215†	100001.6		57700 ug/L	174.0	57700 ug/L	174.0	0.30%
As 188.979†	9.9		14.1 ug/L	2.60	14.1 ug/L	2.60	18.47%
Ba 233.527†	19805.6		259 ug/L	1.0	259 ug/L	1.0	0.39%
Be 234.861†	108.3		1.81 ug/L	0.071	1.81 ug/L	0.071	3.91%
Ca 315.887†	21899.5		3000 ug/L	15.6	3000 ug/L	15.6	0.52%
Cd 226.502†	42.2		-1.33 ug/L	0.408	-1.33 ug/L	0.408	30.71%
Co 228.616†	448.4		20.5 ug/L	0.12	20.5 ug/L	0.12	0.58%
Cr 267.716†	2536.0		79.3 ug/L	0.43	79.3 ug/L	0.43	0.54%
Cu 324.752†	20430.5		68.0 ug/L	0.44	68.0 ug/L	0.44	0.64%
Fe 259.939†	693511.2		57500 ug/L	582.5	57500 ug/L	582.5	1.01%
K 766.490†	11075.9		2510 ug/L	9.4	2510 ug/L	9.4	0.37%
Mg 279.077†	58404.6		6440 ug/L	105.8	6440 ug/L	105.8	1.64%
Mn 257.610†	136806.1		299 ug/L	0.4	299 ug/L	0.4	0.13%
Mo 202.031†	8.3		5.56 ug/L	0.408	5.56 ug/L	0.408	7.33%
Na 589.592†	5865.7		602 ug/L	1.6	602 ug/L	1.6	0.27%
Ni 231.604†	368.0		40.5 ug/L	0.66	40.5 ug/L	0.66	1.63%
Pb 220.353†	191.6		129 ug/L	1.3	129 ug/L	1.3	0.98%
Sb 206.836†	1.4		0.566 ug/L	2.4259	0.566 ug/L	2.4259	428.44%
Se 196.026†	-1.2		2.46 ug/L	4.614	2.46 ug/L	4.614	187.57%
Sn 189.927†	21.9		16.0 ug/L	4.83	16.0 ug/L	4.83	30.19%
Sr 421.552†	22495.8		36.7 ug/L	0.04	36.7 ug/L	0.04	0.10%
Ti 334.940†	536023.1		988 ug/L	0.4	988 ug/L	0.4	0.04%
Tl 190.801†	-3.5		0.636 ug/L	2.3169	0.636 ug/L	2.3169	364.41%
V 292.402†	5270.7		129 ug/L	0.8	129 ug/L	0.8	0.61%
Zn 206.200†	2166.6		268 ug/L	1.7	268 ug/L	1.7	0.62%

Sequence No.: 47
 Sample ID: 350589201
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 70
 Date Collected: 5/3/2012 2:22:08 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350589201

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	269638.2	93.4 %	0.75			0.81%
Sc 361.383	2299497.7	92.1 %	0.56			0.60%
Ag 328.068†	-925.5	-2.91 ug/L	0.161	-2.91 ug/L	0.161	5.54%
Al 308.215†	146128.1	84400 ug/L	610.8	84400 ug/L	610.8	0.72%
As 188.979†	102.9	157 ug/L	6.3	157 ug/L	6.3	4.05%
Ba 233.527†	48333.5	626 ug/L	8.4	626 ug/L	8.4	1.34%
Be 234.861†	1537.0	15.6 ug/L	0.75	15.6 ug/L	0.75	4.83%
Ca 315.887†	3584118.8	492000 ug/L	3157.7	492000 ug/L	3157.7	0.64%
Cd 226.502†	284.4	-7.01 ug/L	1.078	-7.01 ug/L	1.078	15.37%
Co 228.616†	1549.5	69.4 ug/L	0.58	69.4 ug/L	0.58	0.84%
Cr 267.716†	17274.0	540 ug/L	7.4	540 ug/L	7.4	1.37%
Cu 324.752†	35282.2	104 ug/L	2.2	104 ug/L	2.2	2.15%
Fe 259.939†	4403808.9	365000 ug/L	2444.5	365000 ug/L	2444.5	0.67%
K 766.490†	41190.3	9490 ug/L	56.2	9490 ug/L	56.2	0.59%
Mg 279.077†	238778.7	26400 ug/L	394.2	26400 ug/L	394.2	1.50%
Mn 257.610†	4001372.8	8750 ug/L	22.5	8750 ug/L	22.5	0.26%
Mo 202.031†	-2.7	13.8 ug/L	2.27	13.8 ug/L	2.27	16.44%
Na 589.592†	11936.6	1230 ug/L	7.4	1230 ug/L	7.4	0.60%
Ni 231.604†	732.1	74.9 ug/L	1.29	74.9 ug/L	1.29	1.72%
Pb 220.353†	148.7	86.7 ug/L	2.90	86.7 ug/L	2.90	3.35%
Sb 206.836†	26.8	5.41 ug/L	0.937	5.41 ug/L	0.937	17.32%
Se 196.026†	-28.2	-5.15 ug/L	5.846	-5.15 ug/L	5.846	113.59%
Sn 189.927†	316.8	295 ug/L	8.0	295 ug/L	8.0	2.72%
Sr 421.552†	603595.7	986 ug/L	8.4	986 ug/L	8.4	0.86%
Ti 334.940†	816639.1	1500 ug/L	5.2	1500 ug/L	5.2	0.34%
Tl 190.801†	-8.9	-0.410 ug/L	2.1857	-0.410 ug/L	2.1857	533.42%
V 292.402†	21615.7	529 ug/L	3.2	529 ug/L	3.2	0.61%
Zn 206.200†	3026.0	366 ug/L	4.1	366 ug/L	4.1	1.12%

Sequence No.: 48
 Sample ID: 127829MB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 71
 Date Collected: 5/3/2012 2:27:30 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 127829MB

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
Sc Radial	287739.3	99.7 %		0.56			0.56%
Sc 361.383	2429313.8	97.3 %		0.45			0.46%
Ag 328.068†	-31.2	0.079 ug/L		0.2442	0.079 ug/L	0.2442	308.20%
Al 308.215†	26.1	17.5 ug/L		0.64	17.5 ug/L	0.64	3.65%
As 188.979†	-1.3	-4.92 ug/L		1.093	-4.92 ug/L	1.093	22.23%
Ba 233.527†	10.7	0.116 ug/L		0.0459	0.116 ug/L	0.0459	39.51%
Be 234.861†	-22.4	-0.036 ug/L		0.0051	-0.036 ug/L	0.0051	14.18%
Ca 315.887†	502.3	57.3 ug/L		1.29	57.3 ug/L	1.29	2.25%
Cd 226.502†	-5.3	-0.621 ug/L		0.1061	-0.621 ug/L	0.1061	17.10%
Co 228.616†	-9.2	-0.408 ug/L		0.1698	-0.408 ug/L	0.1698	41.58%
Cr 267.716†	1.0	0.046 ug/L		0.1884	0.046 ug/L	0.1884	410.48%
Cu 324.752†	255.3	1.17 ug/L		0.119	1.17 ug/L	0.119	10.15%
Fe 259.939†	765.8	58.8 ug/L		0.46	58.8 ug/L	0.46	0.78%
K 766.490†	190.1	-6.11 ug/L		4.069	-6.11 ug/L	4.069	66.54%
Mg 279.077†	59.7	7.09 ug/L		0.997	7.09 ug/L	0.997	14.07%
Mn 257.610†	888.2	1.73 ug/L		0.045	1.73 ug/L	0.045	2.59%
Mo 202.031†	-1.9	0.207 ug/L		0.5471	0.207 ug/L	0.5471	264.01%
Na 589.592†	170.1	10.4 ug/L		1.19	10.4 ug/L	1.19	11.42%
Ni 231.604†	-8.5	-0.556 ug/L		0.3921	-0.556 ug/L	0.3921	70.53%
Pb 220.353†	4.4	4.47 ug/L		2.379	4.47 ug/L	2.379	53.24%
Sb 206.836†	3.1	2.50 ug/L		0.488	2.50 ug/L	0.488	19.57%
Se 196.026†	-1.8	1.14 ug/L		1.342	1.14 ug/L	1.342	117.63%
Sn 189.927†	-0.4	-4.66 ug/L		2.076	-4.66 ug/L	2.076	44.53%
Sr 421.552†	94.9	0.139 ug/L		0.0110	0.139 ug/L	0.0110	7.94%
Ti 334.940†	247.4	0.462 ug/L		0.1815	0.462 ug/L	0.1815	39.32%
Tl 190.801†	0.7	2.62 ug/L		2.518	2.62 ug/L	2.518	96.03%
V 292.402†	7.4	0.062 ug/L		0.1195	0.062 ug/L	0.1195	193.70%
Zn 206.200†	18.3	2.22 ug/L		0.328	2.22 ug/L	0.328	14.74%

Sequence No.: 49
 Sample ID: 127830LCS
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 72
 Date Collected: 5/3/2012 2:33:41 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 127830LCS

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	286795.6	99.3 %	0.72			0.73%
Sc 361.383	2392294.8	95.9 %	0.75			0.78%
Ag 328.068†	24658.7	194 ug/L	1.7	194 ug/L	1.7	0.90%
Al 308.215†	84254.1	48600 ug/L	359.1	48600 ug/L	359.1	0.74%
As 188.979†	403.4	502 ug/L	7.7	502 ug/L	7.7	1.54%
Ba 233.527†	112424.1	1480 ug/L	7.7	1480 ug/L	7.7	0.52%
Be 234.861†	92821.4	495 ug/L	4.3	495 ug/L	4.3	0.87%
Ca 315.887†	353488.7	48500 ug/L	299.3	48500 ug/L	299.3	0.62%
Cd 226.502†	3043.6	482 ug/L	2.8	482 ug/L	2.8	0.59%
Co 228.616†	9248.8	491 ug/L	2.8	491 ug/L	2.8	0.58%
Cr 267.716†	15960.6	495 ug/L	2.4	495 ug/L	2.4	0.49%
Cu 324.752†	145622.5	485 ug/L	2.3	485 ug/L	2.3	0.48%
Fe 259.939†	596373.8	49400 ug/L	313.8	49400 ug/L	313.8	0.63%
K 766.490†	213603.8	49400 ug/L	282.5	49400 ug/L	282.5	0.57%
Mg 279.077†	434656.4	47900 ug/L	287.4	47900 ug/L	287.4	0.60%
Mn 257.610†	232825.6	509 ug/L	4.2	509 ug/L	4.2	0.83%
Mo 202.031†	1596.4	499 ug/L	2.2	499 ug/L	2.2	0.45%
Na 589.592†	473735.8	49200 ug/L	270.9	49200 ug/L	270.9	0.55%
Ni 231.604†	4380.9	491 ug/L	2.0	491 ug/L	2.0	0.42%
Pb 220.353†	751.9	497 ug/L	3.3	497 ug/L	3.3	0.66%
Sb 206.836†	723.0	499 ug/L	4.4	499 ug/L	4.4	0.88%
Se 196.026†	262.1	469 ug/L	8.5	469 ug/L	8.5	1.81%
Sn 189.927†	650.1	528 ug/L	3.7	528 ug/L	3.7	0.70%
Sr 421.552†	292878.2	478 ug/L	2.6	478 ug/L	2.6	0.55%
Ti 334.940†	283214.4	522 ug/L	1.4	522 ug/L	1.4	0.27%
Tl 190.801†	505.6	488 ug/L	6.0	488 ug/L	6.0	1.23%
V 292.402†	21143.8	520 ug/L	6.5	520 ug/L	6.5	1.25%
Zn 206.200†	4015.3	500 ug/L	4.1	500 ug/L	4.1	0.82%

User canceled analysis.

=====
Analysis Begun

Start Time: 5/3/2012 2:36:44 PM Plasma On Time: 5/3/2012 7:01:24 AM
Logged In Analyst: inorg Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N3112401 Autosampler Model: AS-93plus

Sample Information File: D:\pe\inorg\Sample Information\050312A.sif
Batch ID: 050312A
Results Data Set: 050312A-1
Results Library: d:\pe\inorg\Results\Results.mdb

=====
Sequence No.: 1 Autosampler Location: 6
Sample ID: ICV Date Collected: 5/3/2012 2:36:46 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
User canceled analysis.

=====
Analysis Begun

Start Time: 5/3/2012 2:37:09 PM Plasma On Time: 5/3/2012 7:01:24 AM
Logged In Analyst: inorg Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N3112401 Autosampler Model: AS-93plus

Sample Information File: D:\pe\inorg\Sample Information\050312A.sif
Batch ID: 050312A
Results Data Set: 050312A-1
Results Library: d:\pe\inorg\Results\Results.mdb

=====
Sequence No.: 49 Autosampler Location: 73
Sample ID: 127831LCSD Date Collected: 5/3/2012 2:37:09 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: 127831LCSD

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	284592.4	98.6 %	0.71			0.72%
Sc 361.383	2357065.9	94.4 %	1.27			1.34%
Ag 328.068†	25133.7	198 ug/L	6.3	198 ug/L	6.3	3.18%
Al 308.215†	86663.4	50000 ug/L	153.5	50000 ug/L	153.5	0.31%
As 188.979†	416.0	518 ug/L	7.5	518 ug/L	7.5	1.46%
Ba 233.527†	115008.3	1510 ug/L	44.1	1510 ug/L	44.1	2.92%
Be 234.861†	95962.2	512 ug/L	8.3	512 ug/L	8.3	1.61%
Ca 315.887†	362567.5	49800 ug/L	84.1	49800 ug/L	84.1	0.17%
Cd 226.502†	3153.5	499 ug/L	6.1	499 ug/L	6.1	1.22%
Co 228.616†	9470.3	503 ug/L	16.4	503 ug/L	16.4	3.27%
Cr 267.716†	16295.4	506 ug/L	15.9	506 ug/L	15.9	3.15%
Cu 324.752†	150428.1	501 ug/L	6.8	501 ug/L	6.8	1.36%
Fe 259.939†	610755.7	50600 ug/L	127.3	50600 ug/L	127.3	0.25%
K 766.490†	219713.5	50800 ug/L	78.9	50800 ug/L	78.9	0.16%
Mg 279.077†	443267.1	48800 ug/L	202.6	48800 ug/L	202.6	0.41%
Mn 257.610†	233518.3	510 ug/L	5.8	510 ug/L	5.8	1.13%
Mo 202.031†	1662.0	519 ug/L	6.5	519 ug/L	6.5	1.25%
Na 589.592†	486201.7	50500 ug/L	39.1	50500 ug/L	39.1	0.08%
Ni 231.604†	4532.7	508 ug/L	7.0	508 ug/L	7.0	1.38%
Pb 220.353†	773.8	512 ug/L	7.6	512 ug/L	7.6	1.49%
Sb 206.836†	748.0	516 ug/L	11.6	516 ug/L	11.6	2.25%
Se 196.026†	272.0	486 ug/L	2.9	486 ug/L	2.9	0.59%
Sn 189.927†	668.0	543 ug/L	8.8	543 ug/L	8.8	1.61%
Sr 421.552†	302289.6	494 ug/L	0.2	494 ug/L	0.2	0.03%
Ti 334.940†	292313.4	539 ug/L	7.5	539 ug/L	7.5	1.39%
Tl 190.801†	519.8	501 ug/L	10.5	501 ug/L	10.5	2.10%
V 292.402†	21506.4	529 ug/L	18.2	529 ug/L	18.2	3.44%
Zn 206.200†	4176.8	520 ug/L	9.0	520 ug/L	9.0	1.73%

Sequence No.: 50
 Sample ID: 350584301
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 74
 Date Collected: 5/3/2012 2:42:23 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584301

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	278007.2		96.3 %	1.31			1.36%
Sc 361.383	2360506.8		94.6 %	0.69			0.73%
Ag 328.068†	-914.5		-2.70 ug/L	0.683	-2.70 ug/L	0.683	25.35%
Al 308.215†	98376.0		56800 ug/L	137.3	56800 ug/L	137.3	0.24%
As 188.979†	140.5		205 ug/L	4.3	205 ug/L	4.3	2.09%
Ba 233.527†	32807.8		421 ug/L	2.2	421 ug/L	2.2	0.51%
Be 234.861†	-580.4		4.53 ug/L	0.336	4.53 ug/L	0.336	7.42%
Ca 315.887†	1312713.6		180000 ug/L	2737.6	180000 ug/L	2737.6	1.52%
Cd 226.502†	948.7		98.0 ug/L	2.06	98.0 ug/L	2.06	2.10%
Co 228.616†	1637.4		73.7 ug/L	0.91	73.7 ug/L	0.91	1.24%
Cr 267.716†	23017.9		718 ug/L	4.6	718 ug/L	4.6	0.63%
Cu 324.752†	33656.9		105 ug/L	1.1	105 ug/L	1.1	1.01%
Fe 259.939†	4545453.8		377000 ug/L	5583.4	377000 ug/L	5583.4	1.48%
K 766.490†	14838.0		3390 ug/L	19.3	3390 ug/L	19.3	0.57%
Mg 279.077†	549698.7		60600 ug/L	359.7	60600 ug/L	359.7	0.59%
Mn 257.610†	2055745.3		4490 ug/L	15.8	4490 ug/L	15.8	0.35%
Mo 202.031†	3.4		16.2 ug/L	1.85	16.2 ug/L	1.85	11.46%
Na 589.592†	7422.3		764 ug/L	5.3	764 ug/L	5.3	0.70%
Ni 231.604†	1030.0		108 ug/L	0.4	108 ug/L	0.4	0.36%
Pb 220.353†	394.6		246 ug/L	2.6	246 ug/L	2.6	1.06%
Sb 206.836†	32.5		7.49 ug/L	0.728	7.49 ug/L	0.728	9.73%
Se 196.026†	-15.9		-8.62 ug/L	7.152	-8.62 ug/L	7.152	82.94%
Sn 189.927†	1.8		6.55 ug/L	5.467	6.55 ug/L	5.467	83.45%
Sr 421.552†	179254.4		293 ug/L	1.0	293 ug/L	1.0	0.34%
Ti 334.940†	811754.6		1500 ug/L	5.1	1500 ug/L	5.1	0.34%
Tl 190.801†	-1.9		6.02 ug/L	7.982	6.02 ug/L	7.982	132.60%
V 292.402†	27181.6		666 ug/L	1.5	666 ug/L	1.5	0.23%
Zn 206.200†	13008.0		1610 ug/L	7.6	1610 ug/L	7.6	0.47%

Sequence No.: 51
 Sample ID: 350584301L
 Analyst:
 Initial Sample Wt:
 Dilution: 5X

Autosampler Location: 75
 Date Collected: 5/3/2012 2:47:44 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584301L

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	286080.2		99.1 %	0.74			0.75%
Sc 361.383	2436844.2		97.6 %	0.58			0.60%
Ag 328.068†	-177.1		-0.213 ug/L	0.4383	-1.06 ug/L	2.191	205.81%
Al 308.215†	18800.7		10900 ug/L	59.7	54300 ug/L	298.6	0.55%
As 188.979†	27.7		38.1 ug/L	4.15	190 ug/L	20.7	10.89%
Ba 233.527†	6543.8		84.0 ug/L	1.41	420 ug/L	7.1	1.68%
Be 234.861†	-69.7		1.26 ug/L	0.058	6.30 ug/L	0.288	4.58%
Ca 315.887†	255312.6		35100 ug/L	98.4	175000 ug/L	491.9	0.28%
Cd 226.502†	186.0		18.9 ug/L	0.27	94.4 ug/L	1.37	1.45%
Co 228.616†	321.7		14.5 ug/L	0.55	72.3 ug/L	2.75	3.81%
Cr 267.716†	4599.5		144 ug/L	1.0	718 ug/L	4.8	0.67%
Cu 324.752†	6610.3		20.9 ug/L	0.65	104 ug/L	3.3	3.12%
Fe 259.939†	933605.6		77400 ug/L	564.9	387000 ug/L	2824.7	0.73%
K 766.490†	2772.5		592 ug/L	12.7	2960 ug/L	63.5	2.15%
Mg 279.077†	109828.1		12100 ug/L	81.0	60500 ug/L	404.9	0.67%
Mn 257.610†	417406.6		912 ug/L	2.1	4560 ug/L	10.6	0.23%
Mo 202.031†	1.0		4.04 ug/L	1.031	20.2 ug/L	5.16	25.51%
Na 589.592†	1599.5		159 ug/L	4.7	795 ug/L	23.7	2.98%
Ni 231.604†	205.9		21.9 ug/L	0.34	109 ug/L	1.7	1.56%
Pb 220.353†	80.6		51.4 ug/L	0.98	257 ug/L	4.9	1.90%
Sb 206.836†	6.3		1.53 ug/L	0.806	7.63 ug/L	4.029	52.83%
Se 196.026†	-11.4		-12.9 ug/L	12.60	-64.7 ug/L	63.00	97.39%
Sn 189.927†	-2.2		-4.48 ug/L	4.740	-22.4 ug/L	23.70	105.82%
Sr 421.552†	34682.4		56.6 ug/L	0.09	283 ug/L	0.4	0.16%
Ti 334.940†	158923.1		293 ug/L	0.2	1460 ug/L	1.1	0.07%
Tl 190.801†	-2.3		0.926 ug/L	5.1298	4.63 ug/L	25.649	553.90%
V 292.402†	5349.7		131 ug/L	2.4	655 ug/L	12.2	1.86%
Zn 206.200†	2693.7		333 ug/L	2.3	1670 ug/L	11.4	0.68%

Sequence No.: 52
 Sample ID: 350584302
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 76
 Date Collected: 5/3/2012 2:53:02 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584302

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	260219.6		90.1 %	0.32			0.35%
Sc 361.383	2159680.1		86.5 %	0.59			0.68%
Ag 328.068†	26284.6		210 ug/L	1.9	210 ug/L	1.9	0.91%
Al 308.215†	225796.0		130000 ug/L	490.5	130000 ug/L	490.5	0.38%
As 188.979†	575.6		746 ug/L	17.8	746 ug/L	17.8	2.38%
Ba 233.527†	162351.8		2130 ug/L	6.1	2130 ug/L	6.1	0.29%
Be 234.861†	101650.3		549 ug/L	4.2	549 ug/L	4.2	0.76%
Ca 315.887†	7387219.0		1010000 ug/L	3883.3	1010000 ug/L	3883.3	0.38%
Cd 226.502†	3230.9		465 ug/L	1.7	465 ug/L	1.7	0.37%
Co 228.616†	10844.4		562 ug/L	3.7	562 ug/L	3.7	0.66%
Cr 267.716†	36010.7		1120 ug/L	9.1	1120 ug/L	9.1	0.82%
Cu 324.752†	212748.9		679 ug/L	2.2	679 ug/L	2.2	0.32%
Fe 259.939†	4551286.5		377000 ug/L	1901.5	377000 ug/L	1901.5	0.50%
K 766.490†	267691.0		61900 ug/L	197.5	61900 ug/L	197.5	0.32%
Mg 279.077†	1578184.6		174000 ug/L	1557.2	174000 ug/L	1557.2	0.90%
Mn 257.610†	8417218.4		18400 ug/L	220.7	18400 ug/L	220.7	1.20%
Mo 202.031†	1646.4		527 ug/L	3.8	527 ug/L	3.8	0.73%
Na 589.592†	551470.5		57300 ug/L	198.5	57300 ug/L	198.5	0.35%
Ni 231.604†	5143.6		569 ug/L	2.6	569 ug/L	2.6	0.46%
Pb 220.353†	1098.9		715 ug/L	0.5	715 ug/L	0.5	0.08%
Sb 206.836†	663.6		445 ug/L	5.0	445 ug/L	5.0	1.12%
Se 196.026†	231.1		493 ug/L	6.3	493 ug/L	6.3	1.28%
Sn 189.927†	601.6		586 ug/L	3.0	586 ug/L	3.0	0.52%
Sr 421.552†	1478118.6		2410 ug/L	9.9	2410 ug/L	9.9	0.41%
Ti 334.940†	1497174.4		2760 ug/L	7.5	2760 ug/L	7.5	0.27%
Tl 190.801†	469.1		459 ug/L	3.9	459 ug/L	3.9	0.84%
V 292.402†	44540.0		1090 ug/L	12.5	1090 ug/L	12.5	1.14%
Zn 206.200†	14587.2		1810 ug/L	16.3	1810 ug/L	16.3	0.90%

Sequence No.: 53
 Sample ID: 350584303
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 77
 Date Collected: 5/3/2012 2:58:28 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584303

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	273154.3	94.6 %	0.62			0.65%
Sc 361.383	2300301.5	92.2 %	0.44			0.48%
Ag 328.068†	25367.5	204 ug/L	0.6	204 ug/L	0.6	0.28%
Al 308.215†	235873.1	136000 ug/L	276.5	136000 ug/L	276.5	0.20%
As 188.979†	471.9	628 ug/L	5.4	628 ug/L	5.4	0.86%
Ba 233.527†	145749.6	1900 ug/L	1.8	1900 ug/L	1.8	0.10%
Be 234.861†	98544.7	534 ug/L	3.1	534 ug/L	3.1	0.58%
Ca 315.887†	2084784.1	286000 ug/L	244.2	286000 ug/L	244.2	0.09%
Cd 226.502†	3446.2	483 ug/L	2.0	483 ug/L	2.0	0.42%
Co 228.616†	11566.3	599 ug/L	1.2	599 ug/L	1.2	0.20%
Cr 267.716†	45322.8	1410 ug/L	3.5	1410 ug/L	3.5	0.25%
Cu 324.752†	224012.8	740 ug/L	1.6	740 ug/L	1.6	0.21%
Fe 259.939†	5868669.4	486000 ug/L	3986.4	486000 ug/L	3986.4	0.82%
K 766.490†	253104.4	58600 ug/L	34.7	58600 ug/L	34.7	0.06%
Mg 279.077†	1272534.0	140000 ug/L	906.8	140000 ug/L	906.8	0.65%
Mn 257.610†	2055616.6	4490 ug/L	13.5	4490 ug/L	13.5	0.30%
Mo 202.031†	1528.1	494 ug/L	0.8	494 ug/L	0.8	0.16%
Na 589.592†	531177.1	55200 ug/L	88.6	55200 ug/L	88.6	0.16%
Ni 231.604†	5426.2	599 ug/L	3.3	599 ug/L	3.3	0.55%
Pb 220.353†	1140.8	736 ug/L	0.9	736 ug/L	0.9	0.12%
Sb 206.836†	666.8	440 ug/L	4.4	440 ug/L	4.4	0.99%
Se 196.026†	182.0	348 ug/L	13.7	348 ug/L	13.7	3.95%
Sn 189.927†	663.8	551 ug/L	8.3	551 ug/L	8.3	1.50%
Sr 421.552†	548860.9	897 ug/L	0.9	897 ug/L	0.9	0.10%
Ti 334.940†	1014673.7	1870 ug/L	4.4	1870 ug/L	4.4	0.23%
Tl 190.801†	488.5	478 ug/L	2.8	478 ug/L	2.8	0.58%
V 292.402†	47272.7	1160 ug/L	1.9	1160 ug/L	1.9	0.16%
Zn 206.200†	16338.8	2020 ug/L	1.4	2020 ug/L	1.4	0.07%

Sequence No.: 54
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 5/3/2012 3:03:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV

Table with 7 columns: Analyte, Mean Corrected Intensity, Calib. Conc. Units, Std.Dev., Sample Conc. Units, Std.Dev., RSD. Lists various elements like Sc, Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn with their respective values and recovery percentages.

All analyte(s) passed QC.

Sequence No.: 55
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 5/3/2012 3:08:58 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	286897.8	99.4 %	0.63			0.64%
Sc 361.383	2470600.6	99.0 %	0.90			0.91%
Ag 328.068†	3.9	0.355 ug/L	0.2941	0.355 ug/L	0.2941	82.94%
QC value within limits for Ag	328.068	Recovery =	Not calculated			
Al 308.215†	40.2	25.7 ug/L	3.22	25.7 ug/L	3.22	12.56%
QC value within limits for Al	308.215	Recovery =	Not calculated			
As 188.979†	1.4	-1.58 ug/L	0.853	-1.58 ug/L	0.853	54.03%
QC value within limits for As	188.979	Recovery =	Not calculated			
Ba 233.527†	28.1	0.344 ug/L	0.0820	0.344 ug/L	0.0820	23.81%
QC value within limits for Ba	233.527	Recovery =	Not calculated			
Be 234.861†	28.9	0.238 ug/L	0.0357	0.238 ug/L	0.0357	15.03%
QC value within limits for Be	234.861	Recovery =	Not calculated			
Ca 315.887†	501.7	57.3 ug/L	4.52	57.3 ug/L	4.52	7.89%
QC value within limits for Ca	315.887	Recovery =	Not calculated			
Cd 226.502†	-1.2	0.027 ug/L	0.2524	0.027 ug/L	0.2524	947.92%
QC value within limits for Cd	226.502	Recovery =	Not calculated			
Co 228.616†	0.7	0.116 ug/L	0.1517	0.116 ug/L	0.1517	130.41%
QC value within limits for Co	228.616	Recovery =	Not calculated			
Cr 267.716†	2.5	0.091 ug/L	0.0649	0.091 ug/L	0.0649	71.13%
QC value within limits for Cr	267.716	Recovery =	Not calculated			
Cu 324.752†	446.5	1.81 ug/L	0.274	1.81 ug/L	0.274	15.16%
QC value within limits for Cu	324.752	Recovery =	Not calculated			
Fe 259.939†	998.3	78.0 ug/L	5.12	78.0 ug/L	5.12	6.56%
QC value greater than the upper limit for Fe	259.939	Recovery =	Not calculated			
K 766.490†	236.6	4.67 ug/L	4.890	4.67 ug/L	4.890	104.80%
QC value within limits for K	766.490	Recovery =	Not calculated			
Mg 279.077†	185.1	20.9 ug/L	1.42	20.9 ug/L	1.42	6.81%
QC value within limits for Mg	279.077	Recovery =	Not calculated			
Mn 257.610†	544.7	0.982 ug/L	0.1231	0.982 ug/L	0.1231	12.53%
QC value within limits for Mn	257.610	Recovery =	Not calculated			
Mo 202.031†	0.1	0.819 ug/L	0.6405	0.819 ug/L	0.6405	78.20%
QC value within limits for Mo	202.031	Recovery =	Not calculated			
Na 589.592†	203.9	13.9 ug/L	2.12	13.9 ug/L	2.12	15.26%
QC value within limits for Na	589.592	Recovery =	Not calculated			
Ni 231.604†	-0.4	0.357 ug/L	0.1152	0.357 ug/L	0.1152	32.26%
QC value within limits for Ni	231.604	Recovery =	Not calculated			
Pb 220.353†	0.1	1.67 ug/L	1.819	1.67 ug/L	1.819	108.89%
QC value within limits for Pb	220.353	Recovery =	Not calculated			
Sb 206.836†	-1.0	-0.412 ug/L	3.4002	-0.412 ug/L	3.4002	824.31%
QC value within limits for Sb	206.836	Recovery =	Not calculated			
Se 196.026†	1.0	5.89 ug/L	2.531	5.89 ug/L	2.531	42.96%
QC value greater than the upper limit for Se	196.026	Recovery =	Not calculated			
Sn 189.927†	2.4	-2.37 ug/L	0.854	-2.37 ug/L	0.854	35.98%
QC value within limits for Sn	189.927	Recovery =	Not calculated			
Sr 421.552†	186.0	0.287 ug/L	0.0373	0.287 ug/L	0.0373	12.99%
QC value within limits for Sr	421.552	Recovery =	Not calculated			
Ti 334.940†	190.6	0.357 ug/L	0.1488	0.357 ug/L	0.1488	41.67%
QC value within limits for Ti	334.940	Recovery =	Not calculated			
Tl 190.801†	1.2	3.13 ug/L	0.982	3.13 ug/L	0.982	31.41%
QC value within limits for Tl	190.801	Recovery =	Not calculated			
V 292.402†	3.1	-0.045 ug/L	0.1207	-0.045 ug/L	0.1207	265.31%
QC value within limits for V	292.402	Recovery =	Not calculated			
Zn 206.200†	8.1	0.944 ug/L	0.2587	0.944 ug/L	0.2587	27.41%
QC value within limits for Zn	206.200	Recovery =	Not calculated			
QC Failed. Retry.						

Sequence No.: 56
 Sample ID: CCB
 Analyst:

Autosampler Location: 1
 Date Collected: 5/3/2012 3:12:30 PM
 Data Type: Original

Initial Sample Wt:
Dilution:Initial Sample Vol:
Sample Prep Vol:-----
Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	290428.2	101 %	0.6			0.61%
Sc 361.383	2501552.7	100 %	0.5			0.46%
Ag 328.068†	18.9	0.472 ug/L	0.4557	0.472 ug/L	0.4557	96.63%
QC value within limits for Ag		328.068	Recovery =	Not calculated		
Al 308.215†	19.8	13.9 ug/L	3.17	13.9 ug/L	3.17	22.85%
QC value within limits for Al		308.215	Recovery =	Not calculated		
As 188.979†	0.2	-3.15 ug/L	4.138	-3.15 ug/L	4.138	131.31%
QC value within limits for As		188.979	Recovery =	Not calculated		
Ba 233.527†	14.6	0.168 ug/L	0.0209	0.168 ug/L	0.0209	12.39%
QC value within limits for Ba		233.527	Recovery =	Not calculated		
Be 234.861†	15.6	0.166 ug/L	0.0161	0.166 ug/L	0.0161	9.65%
QC value within limits for Be		234.861	Recovery =	Not calculated		
Ca 315.887†	277.6	26.5 ug/L	3.37	26.5 ug/L	3.37	12.73%
QC value within limits for Ca		315.887	Recovery =	Not calculated		
Cd 226.502†	-1.9	-0.080 ug/L	0.1776	-0.080 ug/L	0.1776	221.35%
QC value within limits for Cd		226.502	Recovery =	Not calculated		
Co 228.616†	-1.9	-0.020 ug/L	0.2160	-0.020 ug/L	0.2160	>999.9%
QC value within limits for Co		228.616	Recovery =	Not calculated		
Cr 267.716†	6.1	0.202 ug/L	0.0861	0.202 ug/L	0.0861	42.66%
QC value within limits for Cr		267.716	Recovery =	Not calculated		
Cu 324.752†	347.3	1.48 ug/L	0.242	1.48 ug/L	0.242	16.32%
QC value within limits for Cu		324.752	Recovery =	Not calculated		
Fe 259.939†	590.3	44.2 ug/L	3.64	44.2 ug/L	3.64	8.23%
QC value within limits for Fe		259.939	Recovery =	Not calculated		
K 766.490†	188.3	-6.53 ug/L	7.525	-6.53 ug/L	7.525	115.26%
QC value within limits for K		766.490	Recovery =	Not calculated		
Mg 279.077†	97.0	11.2 ug/L	0.61	11.2 ug/L	0.61	5.44%
QC value within limits for Mg		279.077	Recovery =	Not calculated		
Mn 257.610†	301.2	0.449 ug/L	0.0438	0.449 ug/L	0.0438	9.74%
QC value within limits for Mn		257.610	Recovery =	Not calculated		
Mo 202.031†	-0.7	0.568 ug/L	0.9770	0.568 ug/L	0.9770	171.87%
QC value within limits for Mo		202.031	Recovery =	Not calculated		
Na 589.592†	121.8	5.38 ug/L	2.076	5.38 ug/L	2.076	38.60%
QC value within limits for Na		589.592	Recovery =	Not calculated		
Ni 231.604†	-0.7	0.327 ug/L	0.1423	0.327 ug/L	0.1423	43.57%
QC value within limits for Ni		231.604	Recovery =	Not calculated		
Pb 220.353†	0.4	1.86 ug/L	2.833	1.86 ug/L	2.833	152.47%
QC value within limits for Pb		220.353	Recovery =	Not calculated		
Sb 206.836†	-1.6	-0.818 ug/L	1.1305	-0.818 ug/L	1.1305	138.24%
QC value within limits for Sb		206.836	Recovery =	Not calculated		
Se 196.026†	-0.5	3.30 ug/L	4.935	3.30 ug/L	4.935	149.33%
QC value within limits for Se		196.026	Recovery =	Not calculated		
Sn 189.927†	-0.0	-4.36 ug/L	0.893	-4.36 ug/L	0.893	20.49%
QC value within limits for Sn		189.927	Recovery =	Not calculated		
Sr 421.552†	81.4	0.116 ug/L	0.0297	0.116 ug/L	0.0297	25.48%
QC value within limits for Sr		421.552	Recovery =	Not calculated		
Ti 334.940†	89.5	0.171 ug/L	0.0908	0.171 ug/L	0.0908	53.17%
QC value within limits for Ti		334.940	Recovery =	Not calculated		
Tl 190.801†	1.7	3.64 ug/L	0.784	3.64 ug/L	0.784	21.51%
QC value within limits for Tl		190.801	Recovery =	Not calculated		
V 292.402†	10.6	0.141 ug/L	0.0147	0.141 ug/L	0.0147	10.38%
QC value within limits for V		292.402	Recovery =	Not calculated		
Zn 206.200†	7.0	0.813 ug/L	0.0854	0.813 ug/L	0.0854	10.50%
QC value within limits for Zn		206.200	Recovery =	Not calculated		

All analyte(s) passed QC.

Sequence No.: 57
 Sample ID: 350584301A
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 78
 Date Collected: 5/3/2012 3:18:35 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584301A

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	279239.0	96.7 %	1.21			1.25%
Sc 361.383	2331837.7	93.4 %	0.35			0.37%
Ag 328.068†	25845.8	207 ug/L	1.0	207 ug/L	1.0	0.49%
Al 308.215†	184249.5	106000 ug/L	270.6	106000 ug/L	270.6	0.25%
As 188.979†	558.9	727 ug/L	2.6	727 ug/L	2.6	0.36%
Ba 233.527†	146312.6	1910 ug/L	13.0	1910 ug/L	13.0	0.68%
Be 234.861†	100491.0	543 ug/L	3.2	543 ug/L	3.2	0.60%
Ca 315.887†	1605560.3	221000 ug/L	489.8	221000 ug/L	489.8	0.22%
Cd 226.502†	4058.2	595 ug/L	4.7	595 ug/L	4.7	0.79%
Co 228.616†	11036.3	574 ug/L	0.6	574 ug/L	0.6	0.10%
Cr 267.716†	38311.1	1190 ug/L	7.3	1190 ug/L	7.3	0.61%
Cu 324.752†	194047.4	639 ug/L	4.4	639 ug/L	4.4	0.69%
Fe 259.939†	4782346.0	396000 ug/L	6007.4	396000 ug/L	6007.4	1.52%
K 766.490†	248443.1	57500 ug/L	97.2	57500 ug/L	97.2	0.17%
Mg 279.077†	959628.4	106000 ug/L	844.0	106000 ug/L	844.0	0.80%
Mn 257.610†	2154288.8	4710 ug/L	15.2	4710 ug/L	15.2	0.32%
Mo 202.031†	1663.1	533 ug/L	4.0	533 ug/L	4.0	0.76%
Na 589.592†	518965.4	53900 ug/L	141.8	53900 ug/L	141.8	0.26%
Ni 231.604†	5502.5	609 ug/L	1.3	609 ug/L	1.3	0.22%
Pb 220.353†	1130.4	733 ug/L	5.6	733 ug/L	5.6	0.76%
Sb 206.836†	762.2	511 ug/L	2.7	511 ug/L	2.7	0.52%
Se 196.026†	253.2	468 ug/L	14.3	468 ug/L	14.3	3.07%
Sn 189.927†	684.0	565 ug/L	6.5	565 ug/L	6.5	1.16%
Sr 421.552†	484769.2	792 ug/L	1.5	792 ug/L	1.5	0.18%
Ti 334.940†	1059435.7	1950 ug/L	7.2	1950 ug/L	7.2	0.37%
Tl 190.801†	513.8	501 ug/L	10.8	501 ug/L	10.8	2.16%
V 292.402†	48026.2	1180 ug/L	3.4	1180 ug/L	3.4	0.29%
Zn 206.200†	16217.0	2010 ug/L	15.3	2010 ug/L	15.3	0.76%

Sequence No.: 58
 Sample ID: 350584304
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 79
 Date Collected: 5/3/2012 3:23:57 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584304

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	279513.5	96.8 %	0.81			0.83%
Sc 361.383	2356725.2	94.4 %	0.48			0.51%
Ag 328.068†	-946.9	-2.13 ug/L	0.207	-2.13 ug/L	0.207	9.72%
Al 308.215†	118272.1	68300 ug/L	417.6	68300 ug/L	417.6	0.61%
As 188.979†	128.2	197 ug/L	7.3	197 ug/L	7.3	3.68%
Ba 233.527†	53820.2	696 ug/L	13.4	696 ug/L	13.4	1.92%
Be 234.861†	-387.6	7.04 ug/L	0.642	7.04 ug/L	0.642	9.12%
Ca 315.887†	1542227.6	212000 ug/L	3546.6	212000 ug/L	3546.6	1.67%
Cd 226.502†	374.0	-5.07 ug/L	1.834	-5.07 ug/L	1.834	36.15%
Co 228.616†	2240.3	103 ug/L	0.4	103 ug/L	0.4	0.37%
Cr 267.716†	26647.4	831 ug/L	15.4	831 ug/L	15.4	1.86%
Cu 324.752†	74102.4	236 ug/L	6.0	236 ug/L	6.0	2.55%
Fe 259.939†	5439872.0	451000 ug/L	7892.2	451000 ug/L	7892.2	1.75%
K 766.490†	17813.4	4070 ug/L	26.1	4070 ug/L	26.1	0.64%
Mg 279.077†	802213.9	88400 ug/L	831.4	88400 ug/L	831.4	0.94%
Mn 257.610†	3319950.7	7260 ug/L	14.0	7260 ug/L	14.0	0.19%
Mo 202.031†	57.1	35.7 ug/L	1.62	35.7 ug/L	1.62	4.55%
Na 589.592†	8773.8	905 ug/L	3.6	905 ug/L	3.6	0.40%
Ni 231.604†	1177.0	123 ug/L	1.9	123 ug/L	1.9	1.53%
Pb 220.353†	402.3	248 ug/L	8.2	248 ug/L	8.2	3.30%
Sb 206.836†	29.2	2.49 ug/L	4.286	2.49 ug/L	4.286	172.44%
Se 196.026†	-29.8	-30.6 ug/L	4.69	-30.6 ug/L	4.69	15.34%
Sn 189.927†	-2.6	4.78 ug/L	1.820	4.78 ug/L	1.820	38.09%
Sr 421.552†	156434.2	256 ug/L	0.5	256 ug/L	0.5	0.18%
Ti 334.940†	1010804.5	1860 ug/L	8.3	1860 ug/L	8.3	0.44%
Tl 190.801†	-1.3	8.62 ug/L	1.253	8.62 ug/L	1.253	14.53%
V 292.402†	22199.3	544 ug/L	15.6	544 ug/L	15.6	2.86%
Zn 206.200†	13816.2	1710 ug/L	51.6	1710 ug/L	51.6	3.02%

Sequence No.: 59
 Sample ID: 350584305
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 80
 Date Collected: 5/3/2012 3:29:20 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584305

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	280336.2	97.1 %	1.41			1.46%
Sc 361.383	2359603.0	94.6 %	0.41			0.43%
Ag 328.068†	-1121.0	-2.95 ug/L	0.072	-2.95 ug/L	0.072	2.43%
Al 308.215†	106220.2	61300 ug/L	125.6	61300 ug/L	125.6	0.20%
As 188.979†	199.5	288 ug/L	1.8	288 ug/L	1.8	0.62%
Ba 233.527†	47376.5	610 ug/L	1.4	610 ug/L	1.4	0.24%
Be 234.861†	-900.3	5.30 ug/L	1.044	5.30 ug/L	1.044	19.68%
Ca 315.887†	1533175.0	211000 ug/L	1757.4	211000 ug/L	1757.4	0.83%
Cd 226.502†	414.2	-5.81 ug/L	0.108	-5.81 ug/L	0.108	1.86%
Co 228.616†	2221.1	100 ug/L	0.6	100 ug/L	0.6	0.62%
Cr 267.716†	22819.8	713 ug/L	2.9	713 ug/L	2.9	0.40%
Cu 324.752†	108175.1	351 ug/L	0.6	351 ug/L	0.6	0.17%
Fe 259.939†	6038885.4	501000 ug/L	4390.5	501000 ug/L	4390.5	0.88%
K 766.490†	13923.3	3170 ug/L	23.3	3170 ug/L	23.3	0.73%
Mg 279.077†	560072.9	61700 ug/L	769.9	61700 ug/L	769.9	1.25%
Mn 257.610†	2676139.5	5850 ug/L	39.9	5850 ug/L	39.9	0.68%
Mo 202.031†	11.1	23.2 ug/L	0.53	23.2 ug/L	0.53	2.26%
Na 589.592†	16386.5	1700 ug/L	1.4	1700 ug/L	1.4	0.08%
Ni 231.604†	1010.5	103 ug/L	0.9	103 ug/L	0.9	0.87%
Pb 220.353†	440.6	270 ug/L	3.4	270 ug/L	3.4	1.26%
Sb 206.836†	37.1	7.72 ug/L	0.561	7.72 ug/L	0.561	7.27%
Se 196.026†	-31.7	-34.0 ug/L	13.44	-34.0 ug/L	13.44	39.53%
Sn 189.927†	163.5	138 ug/L	5.2	138 ug/L	5.2	3.77%
Sr 421.552†	212718.3	347 ug/L	0.9	347 ug/L	0.9	0.25%
Ti 334.940†	1104454.7	2040 ug/L	4.7	2040 ug/L	4.7	0.23%
Tl 190.801†	-4.4	6.36 ug/L	3.571	6.36 ug/L	3.571	56.12%
V 292.402†	27366.3	670 ug/L	6.0	670 ug/L	6.0	0.89%
Zn 206.200†	11557.4	1420 ug/L	6.7	1420 ug/L	6.7	0.47%

Sequence No.: 60
 Sample ID: 350584306
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 81
 Date Collected: 5/3/2012 3:34:41 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584306

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	280213.2	97.0 %	0.83			0.85%
Sc 361.383	2340765.0	93.8 %	1.14			1.21%
Ag 328.068†	-1260.4	-2.73 ug/L	0.440	-2.73 ug/L	0.440	16.15%
Al 308.215†	180778.4	104000 ug/L	576.5	104000 ug/L	576.5	0.55%
As 188.979†	227.0	336 ug/L	9.0	336 ug/L	9.0	2.68%
Ba 233.527†	99171.8	1290 ug/L	9.1	1290 ug/L	9.1	0.71%
Be 234.861†	601.6	15.7 ug/L	1.75	15.7 ug/L	1.75	11.13%
Ca 315.887†	2237703.2	307000 ug/L	1366.9	307000 ug/L	1366.9	0.44%
Cd 226.502†	532.1	-4.25 ug/L	2.591	-4.25 ug/L	2.591	61.02%
Co 228.616†	3013.9	136 ug/L	2.3	136 ug/L	2.3	1.65%
Cr 267.716†	42585.8	1330 ug/L	11.1	1330 ug/L	11.1	0.84%
Cu 324.752†	51056.8	140 ug/L	0.5	140 ug/L	0.5	0.35%
Fe 259.939†	7484510.3	620000 ug/L	10973.9	620000 ug/L	10973.9	1.77%
K 766.490†	35952.5	8270 ug/L	29.8	8270 ug/L	29.8	0.36%
Mg 279.077†	753945.6	83200 ug/L	1518.3	83200 ug/L	1518.3	1.83%
Mn 257.610†	8598790.1	18800 ug/L	138.8	18800 ug/L	138.8	0.74%
Mo 202.031†	22.3	31.3 ug/L	0.79	31.3 ug/L	0.79	2.51%
Na 589.592†	22605.9	2340 ug/L	12.1	2340 ug/L	12.1	0.51%
Ni 231.604†	1228.7	125 ug/L	2.7	125 ug/L	2.7	2.13%
Pb 220.353†	459.7	280 ug/L	6.3	280 ug/L	6.3	2.25%
Sb 206.836†	57.2	15.6 ug/L	2.00	15.6 ug/L	2.00	12.81%
Se 196.026†	-39.1	-38.8 ug/L	5.56	-38.8 ug/L	5.56	14.33%
Sn 189.927†	-13.3	7.60 ug/L	2.789	7.60 ug/L	2.789	36.71%
Sr 421.552†	279176.8	456 ug/L	2.4	456 ug/L	2.4	0.52%
Ti 334.940†	2012829.3	3710 ug/L	6.9	3710 ug/L	6.9	0.19%
Tl 190.801†	-5.3	8.63 ug/L	4.535	8.63 ug/L	4.535	52.52%
V 292.402†	44247.0	1090 ug/L	9.8	1090 ug/L	9.8	0.90%
Zn 206.200†	23526.7	2910 ug/L	25.8	2910 ug/L	25.8	0.89%

Sequence No.: 61
 Sample ID: 350584307
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 82
 Date Collected: 5/3/2012 3:40:18 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584307

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	278915.9	96.6 %	0.61			0.64%
Sc 361.383	2328035.6	93.3 %	0.63			0.67%
Ag 328.068†	-670.7	-1.79 ug/L	0.176	-1.79 ug/L	0.176	9.80%
Al 308.215†	86680.8	50000 ug/L	209.1	50000 ug/L	209.1	0.42%
As 188.979†	90.0	134 ug/L	1.2	134 ug/L	1.2	0.92%
Ba 233.527†	35804.9	463 ug/L	1.9	463 ug/L	1.9	0.41%
Be 234.861†	17.5	5.88 ug/L	0.454	5.88 ug/L	0.454	7.72%
Ca 315.887†	1591973.4	219000 ug/L	2254.7	219000 ug/L	2254.7	1.03%
Cd 226.502†	226.6	-4.73 ug/L	0.318	-4.73 ug/L	0.318	6.73%
Co 228.616†	1495.4	68.6 ug/L	0.40	68.6 ug/L	0.40	0.58%
Cr 267.716†	15551.3	485 ug/L	3.4	485 ug/L	3.4	0.71%
Cu 324.752†	22484.2	66.1 ug/L	0.43	66.1 ug/L	0.43	0.65%
Fe 259.939†	3441903.6	285000 ug/L	2526.3	285000 ug/L	2526.3	0.89%
K 766.490†	15299.2	3490 ug/L	38.2	3490 ug/L	38.2	1.09%
Mg 279.077†	629861.1	69400 ug/L	706.3	69400 ug/L	706.3	1.02%
Mn 257.610†	2579595.1	5640 ug/L	39.1	5640 ug/L	39.1	0.69%
Mo 202.031†	-6.1	9.74 ug/L	1.299	9.74 ug/L	1.299	13.34%
Na 589.592†	9460.4	976 ug/L	7.9	976 ug/L	7.9	0.81%
Ni 231.604†	711.6	74.3 ug/L	1.40	74.3 ug/L	1.40	1.88%
Pb 220.353†	235.0	145 ug/L	6.1	145 ug/L	6.1	4.17%
Sb 206.836†	19.5	3.51 ug/L	2.458	3.51 ug/L	2.458	69.97%
Se 196.026†	-20.6	-14.0 ug/L	2.85	-14.0 ug/L	2.85	20.32%
Sn 189.927†	-13.1	3.05 ug/L	5.345	3.05 ug/L	5.345	175.18%
Sr 421.552†	192274.3	314 ug/L	1.0	314 ug/L	1.0	0.31%
Ti 334.940†	861357.7	1590 ug/L	11.8	1590 ug/L	11.8	0.75%
Tl 190.801†	-6.7	0.851 ug/L	1.9146	0.851 ug/L	1.9146	224.98%
V 292.402†	18326.9	449 ug/L	3.1	449 ug/L	3.1	0.68%
Zn 206.200†	8291.2	1020 ug/L	9.8	1020 ug/L	9.8	0.95%

Sequence No.: 62
 Sample ID: 350584308
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 83
 Date Collected: 5/3/2012 3:45:38 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584308

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	273468.1	94.7 %	0.41			0.43%
Sc 361.383	2316148.9	92.8 %	1.30			1.40%
Ag 328.068†	-67.3	3.51 ug/L	0.796	3.51 ug/L	0.796	22.70%
Al 308.215†	86645.4	50000 ug/L	121.3	50000 ug/L	121.3	0.24%
As 188.979†	133.4	193 ug/L	6.7	193 ug/L	6.7	3.45%
Ba 233.527†	45134.5	585 ug/L	8.1	585 ug/L	8.1	1.38%
Be 234.861†	-306.9	5.20 ug/L	0.839	5.20 ug/L	0.839	16.15%
Ca 315.887†	1453288.5	200000 ug/L	2202.5	200000 ug/L	2202.5	1.10%
Cd 226.502†	263.5	-6.36 ug/L	0.547	-6.36 ug/L	0.547	8.61%
Co 228.616†	2842.9	139 ug/L	1.4	139 ug/L	1.4	1.03%
Cr 267.716†	21048.2	656 ug/L	10.3	656 ug/L	10.3	1.57%
Cu 324.752†	2071232.6	6890 ug/L	25.9	6890 ug/L	25.9	0.38%
Fe 259.939†	4070212.3	337000 ug/L	3330.4	337000 ug/L	3330.4	0.99%
K 766.490†	12790.2	2910 ug/L	14.5	2910 ug/L	14.5	0.50%
Mg 279.077†	678092.4	74800 ug/L	362.2	74800 ug/L	362.2	0.48%
Mn 257.610†	4123842.0	9020 ug/L	73.6	9020 ug/L	73.6	0.82%
Mo 202.031†	5.4	15.3 ug/L	0.56	15.3 ug/L	0.56	3.65%
Na 589.592†	8314.0	857 ug/L	12.2	857 ug/L	12.2	1.42%
Ni 231.604†	1806.9	196 ug/L	1.8	196 ug/L	1.8	0.94%
Pb 220.353†	526.4	325 ug/L	5.9	325 ug/L	5.9	1.81%
Sb 206.836†	38.6	13.5 ug/L	1.43	13.5 ug/L	1.43	10.56%
Se 196.026†	-22.8	-19.2 ug/L	3.40	-19.2 ug/L	3.40	17.70%
Sn 189.927†	392.1	327 ug/L	2.3	327 ug/L	2.3	0.69%
Sr 421.552†	159113.7	260 ug/L	0.7	260 ug/L	0.7	0.25%
Ti 334.940†	825740.0	1520 ug/L	12.2	1520 ug/L	12.2	0.80%
Tl 190.801†	-5.1	2.63 ug/L	7.759	2.63 ug/L	7.759	295.19%
V 292.402†	19640.6	481 ug/L	6.0	481 ug/L	6.0	1.24%
Zn 206.200†	12460.2	1540 ug/L	12.7	1540 ug/L	12.7	0.82%

Sequence No.: 63
 Sample ID: 350584309
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 84
 Date Collected: 5/3/2012 3:51:01 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584309

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	278081.5	96.3 %	0.58			0.60%
Sc 361.383	2355624.4	94.4 %	0.12			0.13%
Ag 328.068†	-741.1	-1.71 ug/L	0.444	-1.71 ug/L	0.444	25.96%
Al 308.215†	91975.8	53100 ug/L	162.7	53100 ug/L	162.7	0.31%
As 188.979†	96.3	147 ug/L	1.9	147 ug/L	1.9	1.30%
Ba 233.527†	36548.7	472 ug/L	5.7	472 ug/L	5.7	1.22%
Be 234.861†	-510.6	4.23 ug/L	1.097	4.23 ug/L	1.097	25.97%
Ca 315.887†	1340657.8	184000 ug/L	1614.9	184000 ug/L	1614.9	0.88%
Cd 226.502†	273.8	-5.53 ug/L	1.098	-5.53 ug/L	1.098	19.87%
Co 228.616†	2082.5	99.0 ug/L	0.28	99.0 ug/L	0.28	0.28%
Cr 267.716†	15428.4	482 ug/L	3.9	482 ug/L	3.9	0.81%
Cu 324.752†	128013.3	415 ug/L	5.0	415 ug/L	5.0	1.20%
Fe 259.939†	4138401.0	343000 ug/L	2846.1	343000 ug/L	2846.1	0.83%
K 766.490†	13175.1	3000 ug/L	14.5	3000 ug/L	14.5	0.48%
Mg 279.077†	642186.7	70800 ug/L	465.1	70800 ug/L	465.1	0.66%
Mn 257.610†	3560656.0	7790 ug/L	39.3	7790 ug/L	39.3	0.50%
Mo 202.031†	7.6	16.2 ug/L	3.01	16.2 ug/L	3.01	18.60%
Na 589.592†	6879.9	708 ug/L	6.7	708 ug/L	6.7	0.95%
Ni 231.604†	975.8	103 ug/L	0.2	103 ug/L	0.2	0.20%
Pb 220.353†	547.1	347 ug/L	7.8	347 ug/L	7.8	2.24%
Sb 206.836†	28.2	7.06 ug/L	2.032	7.06 ug/L	2.032	28.77%
Se 196.026†	-21.4	-18.2 ug/L	8.19	-18.2 ug/L	8.19	45.09%
Sn 189.927†	157.2	133 ug/L	7.0	133 ug/L	7.0	5.27%
Sr 421.552†	132230.8	216 ug/L	0.3	216 ug/L	0.3	0.13%
Ti 334.940†	651335.8	1200 ug/L	4.3	1200 ug/L	4.3	0.36%
Tl 190.801†	-1.0	6.30 ug/L	4.259	6.30 ug/L	4.259	67.60%
V 292.402†	20384.9	499 ug/L	5.7	499 ug/L	5.7	1.14%
Zn 206.200†	13033.8	1610 ug/L	23.2	1610 ug/L	23.2	1.44%

Sequence No.: 64
 Sample ID: 350584310
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 85
 Date Collected: 5/3/2012 3:56:24 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584310

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	282696.2		97.9 %	1.23			1.25%
Sc 361.383	2393905.6		95.9 %	0.18			0.18%
Ag 328.068†	-929.6		-2.24 ug/L	0.273	-2.24 ug/L	0.273	12.20%
Al 308.215†	87829.7		50700 ug/L	39.1	50700 ug/L	39.1	0.08%
As 188.979†	130.8		197 ug/L	4.1	197 ug/L	4.1	2.07%
Ba 233.527†	29820.8		381 ug/L	2.3	381 ug/L	2.3	0.60%
Be 234.861†	-459.8		6.21 ug/L	0.555	6.21 ug/L	0.555	8.94%
Ca 315.887†	1279961.9		176000 ug/L	2212.7	176000 ug/L	2212.7	1.26%
Cd 226.502†	345.0		-6.53 ug/L	1.496	-6.53 ug/L	1.496	22.91%
Co 228.616†	2016.4		92.5 ug/L	0.37	92.5 ug/L	0.37	0.40%
Cr 267.716†	20477.5		640 ug/L	3.5	640 ug/L	3.5	0.55%
Cu 324.752†	65727.4		203 ug/L	2.0	203 ug/L	2.0	0.97%
Fe 259.939†	5173879.9		429000 ug/L	5257.9	429000 ug/L	5257.9	1.23%
K 766.490†	7970.4		1800 ug/L	23.2	1800 ug/L	23.2	1.29%
Mg 279.077†	602387.2		66400 ug/L	531.4	66400 ug/L	531.4	0.80%
Mn 257.610†	4661383.9		10200 ug/L	84.4	10200 ug/L	84.4	0.83%
Mo 202.031†	5.1		18.7 ug/L	0.59	18.7 ug/L	0.59	3.16%
Na 589.592†	6325.2		650 ug/L	5.9	650 ug/L	5.9	0.91%
Ni 231.604†	797.4		80.9 ug/L	1.08	80.9 ug/L	1.08	1.34%
Pb 220.353†	355.3		216 ug/L	8.7	216 ug/L	8.7	4.03%
Sb 206.836†	34.7		7.98 ug/L	3.854	7.98 ug/L	3.854	48.27%
Se 196.026†	-30.8		-35.2 ug/L	4.39	-35.2 ug/L	4.39	12.47%
Sn 189.927†	-11.6		-7.32 ug/L	4.899	-7.32 ug/L	4.899	66.90%
Sr 421.552†	101560.8		166 ug/L	0.3	166 ug/L	0.3	0.16%
Ti 334.940†	793844.2		1460 ug/L	13.6	1460 ug/L	13.6	0.93%
Tl 190.801†	-4.2		4.63 ug/L	3.489	4.63 ug/L	3.489	75.27%
V 292.402†	25522.0		625 ug/L	0.6	625 ug/L	0.6	0.10%
Zn 206.200†	12667.1		1560 ug/L	12.9	1560 ug/L	12.9	0.83%

Sequence No.: 65
 Sample ID: 350584311
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 86
 Date Collected: 5/3/2012 4:01:48 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584311

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	280398.8		97.1 %	0.40			0.41%
Sc 361.383	2323674.9		93.1 %	0.44			0.48%
Ag 328.068†	-978.9		-2.69 ug/L	0.437	-2.69 ug/L	0.437	16.26%
Al 308.215†	131801.3		76100 ug/L	253.6	76100 ug/L	253.6	0.33%
As 188.979†	121.6		186 ug/L	5.8	186 ug/L	5.8	3.11%
Ba 233.527†	67376.3		875 ug/L	12.8	875 ug/L	12.8	1.47%
Be 234.861†	-179.7		7.59 ug/L	0.273	7.59 ug/L	0.273	3.60%
Ca 315.887†	2313624.9		318000 ug/L	3034.7	318000 ug/L	3034.7	0.96%
Cd 226.502†	498.3		18.9 ug/L	0.71	18.9 ug/L	0.71	3.75%
Co 228.616†	2197.9		99.4 ug/L	0.45	99.4 ug/L	0.45	0.46%
Cr 267.716†	26183.4		817 ug/L	11.9	817 ug/L	11.9	1.46%
Cu 324.752†	51066.3		154 ug/L	2.9	154 ug/L	2.9	1.86%
Fe 259.939†	5106640.0		423000 ug/L	4325.6	423000 ug/L	4325.6	1.02%
K 766.490†	15994.0		3650 ug/L	10.6	3650 ug/L	10.6	0.29%
Mg 279.077†	1132047.6		125000 ug/L	649.2	125000 ug/L	649.2	0.52%
Mn 257.610†	4654926.4		10200 ug/L	113.2	10200 ug/L	113.2	1.11%
Mo 202.031†	127.7		56.6 ug/L	1.55	56.6 ug/L	1.55	2.73%
Na 589.592†	28269.0		2930 ug/L	9.1	2930 ug/L	9.1	0.31%
Ni 231.604†	1992.1		215 ug/L	1.4	215 ug/L	1.4	0.67%
Pb 220.353†	383.5		238 ug/L	3.2	238 ug/L	3.2	1.34%
Sb 206.836†	31.3		7.11 ug/L	4.966	7.11 ug/L	4.966	69.88%
Se 196.026†	-35.3		-31.5 ug/L	5.31	-31.5 ug/L	5.31	16.84%
Sn 189.927†	-13.5		14.2 ug/L	9.49	14.2 ug/L	9.49	67.04%
Sr 421.552†	340984.1		557 ug/L	1.1	557 ug/L	1.1	0.19%
Ti 334.940†	1657730.7		3050 ug/L	20.1	3050 ug/L	20.1	0.66%
Tl 190.801†	-7.9		3.51 ug/L	2.113	3.51 ug/L	2.113	60.27%
V 292.402†	26629.2		653 ug/L	9.4	653 ug/L	9.4	1.44%
Zn 206.200†	15236.2		1880 ug/L	29.5	1880 ug/L	29.5	1.57%

Sequence No.: 66
 Sample ID: 350584312
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 87
 Date Collected: 5/3/2012 4:07:13 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584312

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	282191.4	97.7 %	1.95			2.00%
Sc 361.383	2382253.4	95.5 %	0.39			0.41%
Ag 328.068†	-645.3	-1.42 ug/L	0.454	-1.42 ug/L	0.454	32.03%
Al 308.215†	88464.0	51100 ug/L	182.3	51100 ug/L	182.3	0.36%
As 188.979†	103.7	153 ug/L	2.0	153 ug/L	2.0	1.29%
Ba 233.527†	53309.2	693 ug/L	8.4	693 ug/L	8.4	1.21%
Be 234.861†	-243.6	4.81 ug/L	0.855	4.81 ug/L	0.855	17.76%
Ca 315.887†	1802723.1	248000 ug/L	4945.4	248000 ug/L	4945.4	2.00%
Cd 226.502†	246.4	-3.88 ug/L	1.585	-3.88 ug/L	1.585	40.80%
Co 228.616†	2644.7	129 ug/L	0.6	129 ug/L	0.6	0.44%
Cr 267.716†	21628.8	674 ug/L	6.8	674 ug/L	6.8	1.01%
Cu 324.752†	49488.0	152 ug/L	1.8	152 ug/L	1.8	1.19%
Fe 259.939†	3636097.8	301000 ug/L	5760.0	301000 ug/L	5760.0	1.91%
K 766.490†	12968.7	2950 ug/L	4.3	2950 ug/L	4.3	0.15%
Mg 279.077†	1004495.5	111000 ug/L	1791.6	111000 ug/L	1791.6	1.62%
Mn 257.610†	3651122.5	7990 ug/L	50.8	7990 ug/L	50.8	0.64%
Mo 202.031†	8.0	14.7 ug/L	1.11	14.7 ug/L	1.11	7.53%
Na 589.592†	11201.7	1160 ug/L	10.3	1160 ug/L	10.3	0.89%
Ni 231.604†	1611.4	175 ug/L	0.5	175 ug/L	0.5	0.27%
Pb 220.353†	819.5	529 ug/L	10.5	529 ug/L	10.5	1.99%
Sb 206.836†	105.1	61.3 ug/L	1.43	61.3 ug/L	1.43	2.33%
Se 196.026†	-24.7	-18.7 ug/L	9.09	-18.7 ug/L	9.09	48.49%
Sn 189.927†	409.6	349 ug/L	5.2	349 ug/L	5.2	1.49%
Sr 421.552†	208847.6	341 ug/L	0.7	341 ug/L	0.7	0.21%
Ti 334.940†	965712.2	1780 ug/L	8.0	1780 ug/L	8.0	0.45%
Tl 190.801†	-1.5	6.19 ug/L	0.864	6.19 ug/L	0.864	13.96%
V 292.402†	17624.8	432 ug/L	4.3	432 ug/L	4.3	0.99%
Zn 206.200†	12126.5	1500 ug/L	23.4	1500 ug/L	23.4	1.56%

Sequence No.: 67
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 5/3/2012 4:12:35 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	282181.4	97.7 %	1.19			1.22%
Sc 361.383	2432297.3	97.5 %	0.49			0.50%
Ag 328.068†	66348.7	520 ug/L	5.7	520 ug/L	5.7	1.09%
QC value within limits for Ag		328.068	Recovery = 104.10%			
Al 308.215†	44021.3	25400 ug/L	125.7	25400 ug/L	125.7	0.49%
QC value within limits for Al		308.215	Recovery = 101.68%			
As 188.979†	422.0	525 ug/L	3.8	525 ug/L	3.8	0.73%
QC value within limits for As		188.979	Recovery = 104.95%			
Ba 233.527†	39767.6	522 ug/L	5.0	522 ug/L	5.0	0.96%
QC value within limits for Ba		233.527	Recovery = 104.41%			
Be 234.861†	96828.7	516 ug/L	0.8	516 ug/L	0.8	0.16%
QC value within limits for Be		234.861	Recovery = 103.26%			
Ca 315.887†	186953.7	25700 ug/L	127.9	25700 ug/L	127.9	0.50%
QC value within limits for Ca		315.887	Recovery = 102.66%			
Cd 226.502†	3252.0	516 ug/L	5.1	516 ug/L	5.1	0.99%
QC value within limits for Cd		226.502	Recovery = 103.30%			
Co 228.616†	9856.4	524 ug/L	5.2	524 ug/L	5.2	1.00%
QC value within limits for Co		228.616	Recovery = 104.77%			
Cr 267.716†	16640.2	516 ug/L	4.4	516 ug/L	4.4	0.84%
QC value within limits for Cr		267.716	Recovery = 103.27%			
Cu 324.752†	149452.1	497 ug/L	0.4	497 ug/L	0.4	0.08%
QC value within limits for Cu		324.752	Recovery = 99.48%			
Fe 259.939†	511930.7	42400 ug/L	290.9	42400 ug/L	290.9	0.69%
QC value within limits for Fe		259.939	Recovery = 106.07%			
K 766.490†	111517.7	25800 ug/L	187.3	25800 ug/L	187.3	0.73%
QC value within limits for K		766.490	Recovery = 103.08%			
Mg 279.077†	240032.0	26400 ug/L	227.4	26400 ug/L	227.4	0.86%
QC value within limits for Mg		279.077	Recovery = 105.79%			
Mn 257.610†	236472.8	517 ug/L	1.3	517 ug/L	1.3	0.24%
QC value within limits for Mn		257.610	Recovery = 103.35%			
Mo 202.031†	1639.5	512 ug/L	3.0	512 ug/L	3.0	0.58%
QC value within limits for Mo		202.031	Recovery = 102.36%			
Na 589.592†	248641.3	25800 ug/L	141.8	25800 ug/L	141.8	0.55%
QC value within limits for Na		589.592	Recovery = 103.35%			
Ni 231.604†	4654.9	521 ug/L	3.5	521 ug/L	3.5	0.67%
QC value within limits for Ni		231.604	Recovery = 104.28%			
Pb 220.353†	795.6	525 ug/L	3.0	525 ug/L	3.0	0.57%
QC value within limits for Pb		220.353	Recovery = 104.95%			
Sb 206.836†	758.3	523 ug/L	3.3	523 ug/L	3.3	0.63%
QC value within limits for Sb		206.836	Recovery = 104.60%			
Se 196.026†	286.2	509 ug/L	6.4	509 ug/L	6.4	1.26%
QC value within limits for Se		196.026	Recovery = 101.87%			
Sn 189.927†	521.5	421 ug/L	0.3	421 ug/L	0.3	0.08%
QC value within limits for Sn		189.927	Recovery = 105.28%			
Sr 421.552†	254409.5	416 ug/L	2.4	416 ug/L	2.4	0.58%
QC value within limits for Sr		421.552	Recovery = 103.90%			
Ti 334.940†	225098.8	415 ug/L	0.5	415 ug/L	0.5	0.11%
QC value within limits for Ti		334.940	Recovery = 103.71%			
Tl 190.801†	545.9	526 ug/L	3.5	526 ug/L	3.5	0.66%
QC value within limits for Tl		190.801	Recovery = 105.22%			
V 292.402†	21560.4	530 ug/L	4.9	530 ug/L	4.9	0.92%
QC value within limits for V		292.402	Recovery = 106.07%			
Zn 206.200†	4313.1	537 ug/L	3.7	537 ug/L	3.7	0.69%
QC value within limits for Zn		206.200	Recovery = 107.38%			

All analyte(s) passed QC.

Sequence No.: 68
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 5/3/2012 4:17:48 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	290303.0	101 %	0.2			0.16%
Sc 361.383	2489648.3	99.8 %	0.24			0.24%
Ag 328.068†	-37.9	0.027 ug/L	0.0926	0.027 ug/L	0.0926	347.75%
QC value within limits for Ag		328.068	Recovery =	Not calculated		
Al 308.215†	32.8	21.4 ug/L	4.56	21.4 ug/L	4.56	21.29%
QC value within limits for Al		308.215	Recovery =	Not calculated		
As 188.979†	1.4	-1.68 ug/L	0.385	-1.68 ug/L	0.385	22.92%
QC value within limits for As		188.979	Recovery =	Not calculated		
Ba 233.527†	15.5	0.179 ug/L	0.0761	0.179 ug/L	0.0761	42.43%
QC value within limits for Ba		233.527	Recovery =	Not calculated		
Be 234.861†	23.4	0.209 ug/L	0.0172	0.209 ug/L	0.0172	8.25%
QC value within limits for Be		234.861	Recovery =	Not calculated		
Ca 315.887†	348.0	36.1 ug/L	13.68	36.1 ug/L	13.68	37.84%
QC value within limits for Ca		315.887	Recovery =	Not calculated		
Cd 226.502†	0.1	0.246 ug/L	0.4698	0.246 ug/L	0.4698	190.88%
QC value within limits for Cd		226.502	Recovery =	Not calculated		
Co 228.616†	0.5	0.108 ug/L	0.2402	0.108 ug/L	0.2402	223.14%
QC value within limits for Co		228.616	Recovery =	Not calculated		
Cr 267.716†	6.5	0.215 ug/L	0.4265	0.215 ug/L	0.4265	198.30%
QC value within limits for Cr		267.716	Recovery =	Not calculated		
Cu 324.752†	593.0	2.30 ug/L	0.117	2.30 ug/L	0.117	5.07%
QC value within limits for Cu		324.752	Recovery =	Not calculated		
Fe 259.939†	1018.3	79.7 ug/L	19.39	79.7 ug/L	19.39	24.33%
QC value greater than the upper limit for Fe		259.939	Recovery =	Not calculated		
K 766.490†	229.9	3.10 ug/L	7.423	3.10 ug/L	7.423	239.50%
QC value within limits for K		766.490	Recovery =	Not calculated		
Mg 279.077†	138.1	15.7 ug/L	1.80	15.7 ug/L	1.80	11.47%
QC value within limits for Mg		279.077	Recovery =	Not calculated		
Mn 257.610†	472.2	0.823 ug/L	0.0996	0.823 ug/L	0.0996	12.10%
QC value within limits for Mn		257.610	Recovery =	Not calculated		
Mo 202.031†	0.0	0.792 ug/L	0.4664	0.792 ug/L	0.4664	58.91%
QC value within limits for Mo		202.031	Recovery =	Not calculated		
Na 589.592†	141.5	7.43 ug/L	1.007	7.43 ug/L	1.007	13.55%
QC value within limits for Na		589.592	Recovery =	Not calculated		
Ni 231.604†	3.6	0.805 ug/L	0.1431	0.805 ug/L	0.1431	17.77%
QC value within limits for Ni		231.604	Recovery =	Not calculated		
Pb 220.353†	-0.8	1.05 ug/L	2.012	1.05 ug/L	2.012	191.69%
QC value within limits for Pb		220.353	Recovery =	Not calculated		
Sb 206.836†	1.1	1.11 ug/L	0.619	1.11 ug/L	0.619	56.02%
QC value within limits for Sb		206.836	Recovery =	Not calculated		
Se 196.026†	-3.3	-1.55 ug/L	1.878	-1.55 ug/L	1.878	120.81%
QC value within limits for Se		196.026	Recovery =	Not calculated		
Sn 189.927†	3.6	-1.41 ug/L	0.897	-1.41 ug/L	0.897	63.77%
QC value within limits for Sn		189.927	Recovery =	Not calculated		
Sr 421.552†	124.4	0.187 ug/L	0.0283	0.187 ug/L	0.0283	15.17%
QC value within limits for Sr		421.552	Recovery =	Not calculated		
Ti 334.940†	748.6	1.39 ug/L	1.798	1.39 ug/L	1.798	129.77%
QC value within limits for Ti		334.940	Recovery =	Not calculated		
Tl 190.801†	1.0	2.90 ug/L	0.602	2.90 ug/L	0.602	20.72%
QC value within limits for Tl		190.801	Recovery =	Not calculated		
V 292.402†	10.9	0.147 ug/L	0.1778	0.147 ug/L	0.1778	120.74%
QC value within limits for V		292.402	Recovery =	Not calculated		
Zn 206.200†	6.2	0.711 ug/L	0.2081	0.711 ug/L	0.2081	29.26%
QC value within limits for Zn		206.200	Recovery =	Not calculated		
QC Failed. Retry.						

Sequence No.: 69
 Sample ID: CCB
 Analyst:

Autosampler Location: 1
 Date Collected: 5/3/2012 4:21:19 PM
 Data Type: Original

Initial Sample Wt:
Dilution:

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	291860.8	101 %	0.4			0.41%
Sc 361.383	2516862.6	101 %	0.2			0.18%
Ag 328.068†	3.3	0.349 ug/L	0.1818	0.349 ug/L	0.1818	52.10%
QC value within limits for Ag	328.068	Recovery =	Not calculated			
Al 308.215†	24.6	16.7 ug/L	4.40	16.7 ug/L	4.40	26.40%
QC value within limits for Al	308.215	Recovery =	Not calculated			
As 188.979†	0.5	-2.69 ug/L	2.229	-2.69 ug/L	2.229	82.71%
QC value within limits for As	188.979	Recovery =	Not calculated			
Ba 233.527†	6.0	0.055 ug/L	0.0308	0.055 ug/L	0.0308	55.91%
QC value within limits for Ba	233.527	Recovery =	Not calculated			
Be 234.861†	11.2	0.143 ug/L	0.0098	0.143 ug/L	0.0098	6.87%
QC value within limits for Be	234.861	Recovery =	Not calculated			
Ca 315.887†	124.5	5.45 ug/L	2.287	5.45 ug/L	2.287	41.96%
QC value within limits for Ca	315.887	Recovery =	Not calculated			
Cd 226.502†	-0.8	0.102 ug/L	0.1677	0.102 ug/L	0.1677	163.72%
QC value within limits for Cd	226.502	Recovery =	Not calculated			
Co 228.616†	0.8	0.124 ug/L	0.2510	0.124 ug/L	0.2510	202.13%
QC value within limits for Co	228.616	Recovery =	Not calculated			
Cr 267.716†	-0.4	0.002 ug/L	0.1101	0.002 ug/L	0.1101	>999.9%
QC value within limits for Cr	267.716	Recovery =	Not calculated			
Cu 324.752†	496.5	1.98 ug/L	0.191	1.98 ug/L	0.191	9.67%
QC value within limits for Cu	324.752	Recovery =	Not calculated			
Fe 259.939†	453.3	32.9 ug/L	0.65	32.9 ug/L	0.65	1.97%
QC value within limits for Fe	259.939	Recovery =	Not calculated			
K 766.490†	222.1	1.30 ug/L	1.973	1.30 ug/L	1.973	151.75%
QC value within limits for K	766.490	Recovery =	Not calculated			
Mg 279.077†	68.5	8.06 ug/L	0.420	8.06 ug/L	0.420	5.21%
QC value within limits for Mg	279.077	Recovery =	Not calculated			
Mn 257.610†	258.0	0.355 ug/L	0.0403	0.355 ug/L	0.0403	11.34%
QC value within limits for Mn	257.610	Recovery =	Not calculated			
Mo 202.031†	-1.8	0.228 ug/L	0.2838	0.228 ug/L	0.2838	124.24%
QC value within limits for Mo	202.031	Recovery =	Not calculated			
Na 589.592†	80.0	1.03 ug/L	1.333	1.03 ug/L	1.333	129.60%
QC value within limits for Na	589.592	Recovery =	Not calculated			
Ni 231.604†	-3.5	0.012 ug/L	0.0381	0.012 ug/L	0.0381	329.63%
QC value within limits for Ni	231.604	Recovery =	Not calculated			
Pb 220.353†	0.9	2.20 ug/L	2.366	2.20 ug/L	2.366	107.41%
QC value within limits for Pb	220.353	Recovery =	Not calculated			
Sb 206.836†	-0.6	-0.104 ug/L	0.8236	-0.104 ug/L	0.8236	792.31%
QC value within limits for Sb	206.836	Recovery =	Not calculated			
Se 196.026†	0.1	4.40 ug/L	1.157	4.40 ug/L	1.157	26.28%
QC value within limits for Se	196.026	Recovery =	Not calculated			
Sn 189.927†	1.9	-2.76 ug/L	1.860	-2.76 ug/L	1.860	67.40%
QC value within limits for Sn	189.927	Recovery =	Not calculated			
Sr 421.552†	56.0	0.075 ug/L	0.0236	0.075 ug/L	0.0236	31.50%
QC value within limits for Sr	421.552	Recovery =	Not calculated			
Ti 334.940†	117.5	0.222 ug/L	0.1546	0.222 ug/L	0.1546	69.51%
QC value within limits for Ti	334.940	Recovery =	Not calculated			
Tl 190.801†	0.3	2.29 ug/L	4.801	2.29 ug/L	4.801	209.49%
QC value within limits for Tl	190.801	Recovery =	Not calculated			
V 292.402†	1.1	-0.093 ug/L	0.1479	-0.093 ug/L	0.1479	158.37%
QC value within limits for V	292.402	Recovery =	Not calculated			
Zn 206.200†	4.9	0.554 ug/L	0.2996	0.554 ug/L	0.2996	54.07%
QC value within limits for Zn	206.200	Recovery =	Not calculated			

All analyte(s) passed QC.

Sequence No.: 70
 Sample ID: 127829MB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 71
 Date Collected: 5/3/2012 4:27:24 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 127829MB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	291376.4	101 %	0.8			0.80%
Sc 361.383	2489921.6	99.8 %	0.83			0.84%
Ag 328.068†	-23.0	0.143 ug/L	0.4340	0.143 ug/L	0.4340	302.58%
Al 308.215†	13.3	10.1 ug/L	4.90	10.1 ug/L	4.90	48.52%
As 188.979†	-0.9	-4.44 ug/L	0.389	-4.44 ug/L	0.389	8.75%
Ba 233.527†	6.1	0.056 ug/L	0.0261	0.056 ug/L	0.0261	46.32%
Be 234.861†	-11.1	0.024 ug/L	0.0219	0.024 ug/L	0.0219	92.25%
Ca 315.887†	116.4	4.34 ug/L	3.079	4.34 ug/L	3.079	70.98%
Cd 226.502†	-5.1	-0.586 ug/L	0.1284	-0.586 ug/L	0.1284	21.92%
Co 228.616†	-10.1	-0.457 ug/L	0.2151	-0.457 ug/L	0.2151	47.09%
Cr 267.716†	11.1	0.357 ug/L	0.2141	0.357 ug/L	0.2141	59.92%
Cu 324.752†	658.4	2.52 ug/L	0.422	2.52 ug/L	0.422	16.75%
Fe 259.939†	387.9	27.4 ug/L	3.58	27.4 ug/L	3.58	13.04%
K 766.490†	206.3	-2.36 ug/L	6.491	-2.36 ug/L	6.491	274.91%
Mg 279.077†	28.5	3.65 ug/L	0.199	3.65 ug/L	0.199	5.46%
Mn 257.610†	383.6	0.630 ug/L	0.0198	0.630 ug/L	0.0198	3.15%
Mo 202.031†	-4.0	-0.450 ug/L	0.1330	-0.450 ug/L	0.1330	29.54%
Na 589.592†	83.9	1.43 ug/L	0.913	1.43 ug/L	0.913	63.65%
Ni 231.604†	-9.0	-0.602 ug/L	0.3060	-0.602 ug/L	0.3060	50.85%
Pb 220.353†	2.7	3.36 ug/L	0.978	3.36 ug/L	0.978	29.12%
Sb 206.836†	-1.1	-0.424 ug/L	0.8196	-0.424 ug/L	0.8196	193.50%
Se 196.026†	-2.2	0.438 ug/L	4.3610	0.438 ug/L	4.3610	995.92%
Sn 189.927†	0.2	-4.20 ug/L	4.440	-4.20 ug/L	4.440	105.80%
Sr 421.552†	14.7	0.008 ug/L	0.0069	0.008 ug/L	0.0069	90.58%
Ti 334.940†	47.1	0.092 ug/L	0.0783	0.092 ug/L	0.0783	84.70%
Tl 190.801†	-1.5	0.494 ug/L	2.4217	0.494 ug/L	2.4217	489.94%
V 292.402†	0.8	-0.099 ug/L	0.0904	-0.099 ug/L	0.0904	90.95%
Zn 206.200†	10.6	1.26 ug/L	0.136	1.26 ug/L	0.136	10.79%

Sequence No.: 71
 Sample ID: 128016MB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 88
 Date Collected: 5/3/2012 4:33:35 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 128016MB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	291756.5	101 %	1.3			1.30%
Sc 361.383	2492401.0	99.9 %	0.77			0.77%
Ag 328.068†	-34.6	0.052 ug/L	0.4667	0.052 ug/L	0.4667	896.75%
Al 308.215†	6.5	6.18 ug/L	3.187	6.18 ug/L	3.187	51.58%
As 188.979†	-0.3	-3.72 ug/L	3.205	-3.72 ug/L	3.205	86.06%
Ba 233.527†	3.4	0.021 ug/L	0.0946	0.021 ug/L	0.0946	443.18%
Be 234.861†	-14.7	0.005 ug/L	0.0117	0.005 ug/L	0.0117	259.00%
Ca 315.887†	77.3	-1.03 ug/L	0.972	-1.03 ug/L	0.972	94.65%
Cd 226.502†	-3.2	-0.279 ug/L	0.0972	-0.279 ug/L	0.0972	34.85%
Co 228.616†	-7.1	-0.297 ug/L	0.1703	-0.297 ug/L	0.1703	57.31%
Cr 267.716†	5.8	0.194 ug/L	0.1437	0.194 ug/L	0.1437	74.08%
Cu 324.752†	481.1	1.93 ug/L	0.109	1.93 ug/L	0.109	5.68%
Fe 259.939†	217.7	13.3 ug/L	0.87	13.3 ug/L	0.87	6.50%
K 766.490†	-53.3	-62.5 ug/L	13.87	-62.5 ug/L	13.87	22.21%
Mg 279.077†	19.4	2.64 ug/L	0.454	2.64 ug/L	0.454	17.18%
Mn 257.610†	797.4	1.54 ug/L	0.014	1.54 ug/L	0.014	0.88%
Mo 202.031†	-3.1	-0.165 ug/L	0.5064	-0.165 ug/L	0.5064	307.14%
Na 589.592†	81.1	1.15 ug/L	5.004	1.15 ug/L	5.004	434.32%
Ni 231.604†	-5.7	-0.234 ug/L	0.5599	-0.234 ug/L	0.5599	239.39%
Pb 220.353†	1.9	2.81 ug/L	2.348	2.81 ug/L	2.348	83.41%
Sb 206.836†	3.8	2.99 ug/L	2.367	2.99 ug/L	2.367	79.08%
Se 196.026†	-2.8	-0.679 ug/L	0.5875	-0.679 ug/L	0.5875	86.51%
Sn 189.927†	2.3	-2.47 ug/L	3.587	-2.47 ug/L	3.587	145.04%
Sr 421.552†	13.5	0.006 ug/L	0.0132	0.006 ug/L	0.0132	236.32%
Ti 334.940†	41.7	0.083 ug/L	0.0389	0.083 ug/L	0.0389	47.17%
Tl 190.801†	0.8	2.71 ug/L	1.468	2.71 ug/L	1.468	54.09%
V 292.402†	2.1	-0.068 ug/L	0.1697	-0.068 ug/L	0.1697	251.34%
Zn 206.200†	15.4	1.86 ug/L	0.779	1.86 ug/L	0.779	41.90%

Sequence No.: 72
 Sample ID: 128017LCS
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 89
 Date Collected: 5/3/2012 4:39:46 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 128017LCS

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	278498.6	96.4 %	0.55			0.57%
Sc 361.383	2358934.2	94.5 %	2.17			2.30%
Ag 328.068†	25502.9	201 ug/L	6.5	201 ug/L	6.5	3.24%
Al 308.215†	83152.9	48000 ug/L	287.3	48000 ug/L	287.3	0.60%
As 188.979†	409.8	510 ug/L	8.1	510 ug/L	8.1	1.60%
Ba 233.527†	112405.5	1480 ug/L	40.0	1480 ug/L	40.0	2.70%
Be 234.861†	91649.3	489 ug/L	10.3	489 ug/L	10.3	2.11%
Ca 315.887†	350749.3	48200 ug/L	266.4	48200 ug/L	266.4	0.55%
Cd 226.502†	3089.7	489 ug/L	13.8	489 ug/L	13.8	2.81%
Co 228.616†	9240.7	491 ug/L	13.5	491 ug/L	13.5	2.75%
Cr 267.716†	15822.4	491 ug/L	13.6	491 ug/L	13.6	2.76%
Cu 324.752†	144769.1	482 ug/L	16.7	482 ug/L	16.7	3.47%
Fe 259.939†	590518.2	48900 ug/L	329.8	48900 ug/L	329.8	0.67%
K 766.490†	216692.0	50100 ug/L	167.9	50100 ug/L	167.9	0.34%
Mg 279.077†	433113.7	47700 ug/L	158.1	47700 ug/L	158.1	0.33%
Mn 257.610†	225880.6	494 ug/L	10.9	494 ug/L	10.9	2.22%
Mo 202.031†	1595.1	498 ug/L	14.1	498 ug/L	14.1	2.84%
Na 589.592†	477194.0	49600 ug/L	251.1	49600 ug/L	251.1	0.51%
Ni 231.604†	4338.0	486 ug/L	13.0	486 ug/L	13.0	2.69%
Pb 220.353†	756.7	501 ug/L	9.0	501 ug/L	9.0	1.80%
Sb 206.836†	717.5	495 ug/L	11.1	495 ug/L	11.1	2.25%
Se 196.026†	264.9	474 ug/L	9.4	474 ug/L	9.4	1.97%
Sn 189.927†	635.3	516 ug/L	18.0	516 ug/L	18.0	3.49%
Sr 421.552†	293304.0	479 ug/L	3.0	479 ug/L	3.0	0.62%
Ti 334.940†	278781.5	514 ug/L	10.8	514 ug/L	10.8	2.10%
Tl 190.801†	521.6	503 ug/L	16.5	503 ug/L	16.5	3.27%
V 292.402†	20956.9	515 ug/L	15.6	515 ug/L	15.6	3.02%
Zn 206.200†	4021.4	500 ug/L	12.4	500 ug/L	12.4	2.48%

Sequence No.: 73
 Sample ID: 128018LCSD
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 90
 Date Collected: 5/3/2012 4:44:59 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 128018LCSD

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	279102.4		96.7 %	0.80			0.83%
Sc 361.383	2363802.1		94.7 %	0.91			0.96%
Ag 328.068†	24643.6		194 ug/L	0.9	194 ug/L	0.9	0.49%
Al 308.215†	79355.0		45800 ug/L	66.3	45800 ug/L	66.3	0.14%
As 188.979†	391.0		486 ug/L	13.1	486 ug/L	13.1	2.69%
Ba 233.527†	106270.0		1400 ug/L	6.5	1400 ug/L	6.5	0.46%
Be 234.861†	87750.5		468 ug/L	2.1	468 ug/L	2.1	0.44%
Ca 315.887†	335756.8		46100 ug/L	66.2	46100 ug/L	66.2	0.14%
Cd 226.502†	2980.9		472 ug/L	6.4	472 ug/L	6.4	1.36%
Co 228.616†	8670.0		460 ug/L	5.0	460 ug/L	5.0	1.08%
Cr 267.716†	14846.2		461 ug/L	3.4	461 ug/L	3.4	0.74%
Cu 324.752†	136658.0		455 ug/L	3.7	455 ug/L	3.7	0.81%
Fe 259.939†	564109.1		46800 ug/L	92.5	46800 ug/L	92.5	0.20%
K 766.490†	208453.9		48200 ug/L	56.1	48200 ug/L	56.1	0.12%
Mg 279.077†	415340.0		45800 ug/L	284.7	45800 ug/L	284.7	0.62%
Mn 257.610†	215388.1		471 ug/L	1.4	471 ug/L	1.4	0.29%
Mo 202.031†	1527.5		477 ug/L	7.5	477 ug/L	7.5	1.56%
Na 589.592†	458399.6		47600 ug/L	78.3	47600 ug/L	78.3	0.16%
Ni 231.604†	4136.8		463 ug/L	5.8	463 ug/L	5.8	1.26%
Pb 220.353†	729.5		483 ug/L	12.0	483 ug/L	12.0	2.49%
Sb 206.836†	689.5		476 ug/L	4.5	476 ug/L	4.5	0.95%
Se 196.026†	258.4		462 ug/L	9.0	462 ug/L	9.0	1.95%
Sn 189.927†	617.6		501 ug/L	6.9	501 ug/L	6.9	1.37%
Sr 421.552†	280325.2		458 ug/L	0.5	458 ug/L	0.5	0.11%
Ti 334.940†	267409.5		493 ug/L	1.8	493 ug/L	1.8	0.37%
Tl 190.801†	500.5		483 ug/L	4.2	483 ug/L	4.2	0.87%
V 292.402†	19830.1		488 ug/L	4.5	488 ug/L	4.5	0.93%
Zn 206.200†	3832.9		477 ug/L	5.9	477 ug/L	5.9	1.24%

Sequence No.: 74
 Sample ID: 350586403
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 91
 Date Collected: 5/3/2012 4:50:12 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350586403

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	278621.9	96.5 %	0.60			0.62%
Sc 361.383	2338215.1	93.7 %	0.87			0.93%
Ag 328.068†	-836.1	-2.16 ug/L	0.265	-2.16 ug/L	0.265	12.25%
Al 308.215†	86007.9	49700 ug/L	227.4	49700 ug/L	227.4	0.46%
As 188.979†	123.0	183 ug/L	4.7	183 ug/L	4.7	2.57%
Ba 233.527†	46345.2	600 ug/L	2.1	600 ug/L	2.1	0.35%
Be 234.861†	-395.2	5.37 ug/L	0.582	5.37 ug/L	0.582	10.83%
Ca 315.887†	1418970.7	195000 ug/L	209.5	195000 ug/L	209.5	0.11%
Cd 226.502†	292.3	-6.42 ug/L	1.175	-6.42 ug/L	1.175	18.32%
Co 228.616†	1934.8	89.7 ug/L	0.64	89.7 ug/L	0.64	0.71%
Cr 267.716†	19551.1	610 ug/L	1.9	610 ug/L	1.9	0.31%
Cu 324.752†	43854.9	135 ug/L	1.3	135 ug/L	1.3	0.96%
Fe 259.939†	4459905.0	370000 ug/L	675.4	370000 ug/L	675.4	0.18%
K 766.490†	15526.8	3540 ug/L	13.4	3540 ug/L	13.4	0.38%
Mg 279.077†	622287.8	68600 ug/L	152.6	68600 ug/L	152.6	0.22%
Mn 257.610†	3216175.5	7030 ug/L	21.8	7030 ug/L	21.8	0.31%
Mo 202.031†	10.7	18.2 ug/L	0.78	18.2 ug/L	0.78	4.32%
Na 589.592†	9773.3	1010 ug/L	3.6	1010 ug/L	3.6	0.36%
Ni 231.604†	1043.7	110 ug/L	0.5	110 ug/L	0.5	0.46%
Pb 220.353†	322.8	198 ug/L	2.7	198 ug/L	2.7	1.36%
Sb 206.836†	31.7	8.13 ug/L	2.695	8.13 ug/L	2.695	33.14%
Se 196.026†	-26.2	-25.7 ug/L	6.84	-25.7 ug/L	6.84	26.66%
Sn 189.927†	25.8	27.9 ug/L	6.48	27.9 ug/L	6.48	23.18%
Sr 421.552†	164029.3	268 ug/L	1.0	268 ug/L	1.0	0.36%
Ti 334.940†	827875.3	1530 ug/L	3.7	1530 ug/L	3.7	0.24%
Tl 190.801†	1.9	10.0 ug/L	8.08	10.0 ug/L	8.08	80.63%
V 292.402†	21539.4	528 ug/L	2.9	528 ug/L	2.9	0.55%
Zn 206.200†	10492.7	1300 ug/L	12.8	1300 ug/L	12.8	0.99%

Sequence No.: 75
 Sample ID: 350586403L
 Analyst:
 Initial Sample Wt:
 Dilution: 5X

Autosampler Location: 92
 Date Collected: 5/3/2012 4:55:35 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350586403L

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	291402.7		101 %	0.3			0.25%
Sc 361.383	2505993.8		100 %	0.7			0.74%
Ag 328.068†	-195.1		-0.375 ug/L	0.1521	-1.88 ug/L	0.761	40.56%
Al 308.215†	15805.4		9130 ug/L	44.3	45600 ug/L	221.3	0.49%
As 188.979†	22.1		30.8 ug/L	2.91	154 ug/L	14.6	9.45%
Ba 233.527†	8933.8		115 ug/L	1.2	577 ug/L	5.8	1.00%
Be 234.861†	-76.6		1.18 ug/L	0.105	5.92 ug/L	0.524	8.84%
Ca 315.887†	270224.8		37100 ug/L	100.6	186000 ug/L	503.2	0.27%
Cd 226.502†	55.1		-1.87 ug/L	0.234	-9.35 ug/L	1.171	12.53%
Co 228.616†	371.9		17.2 ug/L	0.40	86.0 ug/L	2.01	2.34%
Cr 267.716†	3737.2		117 ug/L	1.0	584 ug/L	5.1	0.88%
Cu 324.752†	8190.7		25.4 ug/L	0.42	127 ug/L	2.1	1.67%
Fe 259.939†	910929.2		75500 ug/L	282.0	377000 ug/L	1410.1	0.37%
K 766.490†	2857.1		611 ug/L	5.3	3060 ug/L	26.7	0.87%
Mg 279.077†	121874.1		13400 ug/L	81.9	67200 ug/L	409.3	0.61%
Mn 257.610†	633970.2		1390 ug/L	3.3	6930 ug/L	16.6	0.24%
Mo 202.031†	4.7		5.11 ug/L	0.928	25.6 ug/L	4.64	18.15%
Na 589.592†	1963.4		197 ug/L	0.8	984 ug/L	3.9	0.40%
Ni 231.604†	210.0		22.4 ug/L	0.41	112 ug/L	2.0	1.82%
Pb 220.353†	62.5		39.4 ug/L	3.43	197 ug/L	17.2	8.71%
Sb 206.836†	3.1		-0.387 ug/L	1.1584	-1.93 ug/L	5.792	299.52%
Se 196.026†	-5.8		-2.83 ug/L	5.912	-14.2 ug/L	29.56	208.74%
Sn 189.927†	4.2		1.03 ug/L	1.850	5.15 ug/L	9.252	179.56%
Sr 421.552†	30723.6		50.2 ug/L	0.12	251 ug/L	0.6	0.24%
Ti 334.940†	156201.8		288 ug/L	1.0	1440 ug/L	4.9	0.34%
Tl 190.801†	1.3		4.46 ug/L	3.518	22.3 ug/L	17.59	78.85%
V 292.402†	4042.4		98.9 ug/L	0.93	494 ug/L	4.6	0.94%
Zn 206.200†	2112.6		261 ug/L	2.5	1300 ug/L	12.6	0.97%

Sequence No.: 76
 Sample ID: 128019MS
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 93
 Date Collected: 5/3/2012 5:00:54 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 128019MS

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	282366.6	97.8 %	0.99			1.01%
Sc 361.383	2315843.3	92.8 %	0.89			0.96%
Ag 328.068†	23599.6	189 ug/L	3.1	189 ug/L	3.1	1.65%
Al 308.215†	171784.7	99200 ug/L	454.9	99200 ug/L	454.9	0.46%
As 188.979†	466.5	605 ug/L	5.6	605 ug/L	5.6	0.92%
Ba 233.527†	124576.4	1630 ug/L	27.3	1630 ug/L	27.3	1.67%
Be 234.861†	86739.6	468 ug/L	4.3	468 ug/L	4.3	0.92%
Ca 315.887†	1946691.0	267000 ug/L	879.8	267000 ug/L	879.8	0.33%
Cd 226.502†	3012.4	437 ug/L	5.0	437 ug/L	5.0	1.14%
Co 228.616†	9705.9	505 ug/L	4.2	505 ug/L	4.2	0.83%
Cr 267.716†	27875.2	868 ug/L	13.6	868 ug/L	13.6	1.56%
Cu 324.752†	177566.8	583 ug/L	10.0	583 ug/L	10.0	1.72%
Fe 259.939†	3890126.7	322000 ug/L	5429.6	322000 ug/L	5429.6	1.68%
K 766.490†	226616.6	52400 ug/L	98.1	52400 ug/L	98.1	0.19%
Mg 279.077†	1111464.2	122000 ug/L	1790.3	122000 ug/L	1790.3	1.46%
Mn 257.610†	2405438.1	5260 ug/L	33.9	5260 ug/L	33.9	0.65%
Mo 202.031†	1453.9	465 ug/L	3.0	465 ug/L	3.0	0.64%
Na 589.592†	464892.4	48300 ug/L	61.7	48300 ug/L	61.7	0.13%
Ni 231.604†	4741.5	525 ug/L	4.4	525 ug/L	4.4	0.84%
Pb 220.353†	975.1	634 ug/L	9.6	634 ug/L	9.6	1.52%
Sb 206.836†	612.1	412 ug/L	8.2	412 ug/L	8.2	1.98%
Se 196.026†	230.5	431 ug/L	8.7	431 ug/L	8.7	2.01%
Sn 189.927†	598.8	503 ug/L	6.6	503 ug/L	6.6	1.32%
Sr 421.552†	446619.7	730 ug/L	2.3	730 ug/L	2.3	0.32%
Ti 334.940†	943821.6	1740 ug/L	7.1	1740 ug/L	7.1	0.41%
Tl 190.801†	458.1	447 ug/L	6.0	447 ug/L	6.0	1.33%
V 292.402†	34933.9	858 ug/L	13.6	858 ug/L	13.6	1.59%
Zn 206.200†	15090.2	1870 ug/L	27.2	1870 ug/L	27.2	1.46%

Sequence No.: 77
 Sample ID: 128020MSD
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 94
 Date Collected: 5/3/2012 5:06:16 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 128020MSD

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	281470.4	97.5 %	1.40			1.43%
Sc 361.383	2349452.4	94.1 %	0.42			0.45%
Ag 328.068†	24260.6	195 ug/L	0.7	195 ug/L	0.7	0.36%
Al 308.215†	200207.9	116000 ug/L	456.2	116000 ug/L	456.2	0.39%
As 188.979†	534.4	695 ug/L	5.3	695 ug/L	5.3	0.77%
Ba 233.527†	149565.0	1960 ug/L	10.5	1960 ug/L	10.5	0.53%
Be 234.861†	96694.8	523 ug/L	1.2	523 ug/L	1.2	0.23%
Ca 315.887†	2206802.4	303000 ug/L	1342.4	303000 ug/L	1342.4	0.44%
Cd 226.502†	3308.9	474 ug/L	3.4	474 ug/L	3.4	0.72%
Co 228.616†	10797.0	561 ug/L	2.7	561 ug/L	2.7	0.48%
Cr 267.716†	28499.3	888 ug/L	3.1	888 ug/L	3.1	0.35%
Cu 324.752†	239334.8	781 ug/L	4.2	781 ug/L	4.2	0.54%
Fe 259.939†	4790126.3	397000 ug/L	8352.2	397000 ug/L	8352.2	2.10%
K 766.490†	250765.4	58000 ug/L	213.0	58000 ug/L	213.0	0.37%
Mg 279.077†	1129993.8	125000 ug/L	1738.3	125000 ug/L	1738.3	1.40%
Mn 257.610†	4796731.0	10500 ug/L	26.0	10500 ug/L	26.0	0.25%
Mo 202.031†	1590.1	510 ug/L	2.7	510 ug/L	2.7	0.52%
Na 589.592†	508140.4	52800 ug/L	168.5	52800 ug/L	168.5	0.32%
Ni 231.604†	5368.8	594 ug/L	4.2	594 ug/L	4.2	0.71%
Pb 220.353†	1171.5	760 ug/L	7.3	760 ug/L	7.3	0.96%
Sb 206.836†	650.7	437 ug/L	4.6	437 ug/L	4.6	1.06%
Se 196.026†	237.0	446 ug/L	15.2	446 ug/L	15.2	3.41%
Sn 189.927†	651.5	548 ug/L	0.5	548 ug/L	0.5	0.09%
Sr 421.552†	531101.2	868 ug/L	3.3	868 ug/L	3.3	0.38%
Ti 334.940†	1127859.1	2080 ug/L	1.8	2080 ug/L	1.8	0.09%
Tl 190.801†	488.6	477 ug/L	2.5	477 ug/L	2.5	0.51%
V 292.402†	41956.2	1030 ug/L	5.7	1030 ug/L	5.7	0.55%
Zn 206.200†	15097.3	1870 ug/L	6.2	1870 ug/L	6.2	0.33%

Sequence No.: 78
 Sample ID: 350586403A
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 95
 Date Collected: 5/3/2012 5:11:40 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350586403A

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	276724.3	95.8 %	0.45			0.46%
Sc 361.383	2323026.5	93.1 %	0.13			0.13%
Ag 328.068†	25547.3	205 ug/L	1.2	205 ug/L	1.2	0.60%
Al 308.215†	173876.4	100000 ug/L	402.8	100000 ug/L	402.8	0.40%
As 188.979†	539.4	703 ug/L	8.2	703 ug/L	8.2	1.17%
Ba 233.527†	160006.1	2090 ug/L	14.6	2090 ug/L	14.6	0.70%
Be 234.861†	101293.5	547 ug/L	0.7	547 ug/L	0.7	0.13%
Ca 315.887†	1746120.5	240000 ug/L	757.1	240000 ug/L	757.1	0.32%
Cd 226.502†	3483.6	502 ug/L	3.1	502 ug/L	3.1	0.62%
Co 228.616†	11392.8	592 ug/L	2.4	592 ug/L	2.4	0.41%
Cr 267.716†	35248.3	1100 ug/L	7.2	1100 ug/L	7.2	0.66%
Cu 324.752†	204632.6	671 ug/L	4.2	671 ug/L	4.2	0.62%
Fe 259.939†	4844746.7	402000 ug/L	3929.2	402000 ug/L	3929.2	0.98%
K 766.490†	251333.6	58100 ug/L	261.4	58100 ug/L	261.4	0.45%
Mg 279.077†	1046368.7	115000 ug/L	482.2	115000 ug/L	482.2	0.42%
Mn 257.610†	3286452.2	7190 ug/L	28.3	7190 ug/L	28.3	0.39%
Mo 202.031†	1673.7	536 ug/L	1.7	536 ug/L	1.7	0.31%
Na 589.592†	523407.5	54400 ug/L	154.0	54400 ug/L	154.0	0.28%
Ni 231.604†	5548.5	614 ug/L	1.9	614 ug/L	1.9	0.32%
Pb 220.353†	1076.5	696 ug/L	1.8	696 ug/L	1.8	0.26%
Sb 206.836†	779.9	524 ug/L	4.9	524 ug/L	4.9	0.94%
Se 196.026†	256.3	474 ug/L	6.7	474 ug/L	6.7	1.41%
Sn 189.927†	701.3	581 ug/L	9.8	581 ug/L	9.8	1.69%
Sr 421.552†	473399.0	773 ug/L	2.4	773 ug/L	2.4	0.31%
Ti 334.940†	1088200.7	2010 ug/L	1.5	2010 ug/L	1.5	0.08%
Tl 190.801†	510.7	498 ug/L	4.0	498 ug/L	4.0	0.80%
V 292.402†	42792.1	1050 ug/L	7.7	1050 ug/L	7.7	0.73%
Zn 206.200†	14187.2	1760 ug/L	10.2	1760 ug/L	10.2	0.58%

Sequence No.: 79
 Sample ID: 350586404
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 96
 Date Collected: 5/3/2012 5:17:04 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350586404

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	292657.8		101 %	1.5			1.44%
Sc 361.383	2447992.1		98.1 %	1.02			1.04%
Ag 328.068†	-424.3		-1.26 ug/L	0.154	-1.26 ug/L	0.154	12.25%
Al 308.215†	80109.8		46200 ug/L	23.6	46200 ug/L	23.6	0.05%
As 188.979†	49.5		72.3 ug/L	2.15	72.3 ug/L	2.15	2.97%
Ba 233.527†	39259.1		512 ug/L	8.4	512 ug/L	8.4	1.64%
Be 234.861†	923.5		8.17 ug/L	0.346	8.17 ug/L	0.346	4.23%
Ca 315.887†	589738.9		81000 ug/L	308.5	81000 ug/L	308.5	0.38%
Cd 226.502†	124.2		-2.82 ug/L	0.812	-2.82 ug/L	0.812	28.76%
Co 228.616†	1072.1		51.1 ug/L	0.18	51.1 ug/L	0.18	0.36%
Cr 267.716†	8084.9		253 ug/L	4.1	253 ug/L	4.1	1.64%
Cu 324.752†	24542.2		76.9 ug/L	2.03	76.9 ug/L	2.03	2.64%
Fe 259.939†	1913902.3	159000 ug/L		2969.2	159000 ug/L	2969.2	1.87%
K 766.490†	13979.1		3190 ug/L	9.7	3190 ug/L	9.7	0.31%
Mg 279.077†	216093.4		23800 ug/L	111.0	23800 ug/L	111.0	0.47%
Mn 257.610†	1460720.8		3190 ug/L	10.6	3190 ug/L	10.6	0.33%
Mo 202.031†	1.9		7.41 ug/L	0.772	7.41 ug/L	0.772	10.42%
Na 589.592†	20513.8		2120 ug/L	4.5	2120 ug/L	4.5	0.21%
Ni 231.604†	649.4		69.9 ug/L	0.58	69.9 ug/L	0.58	0.83%
Pb 220.353†	205.6		132 ug/L	2.9	132 ug/L	2.9	2.23%
Sb 206.836†	11.8		2.84 ug/L	2.180	2.84 ug/L	2.180	76.72%
Se 196.026†	-13.1		-12.0 ug/L	3.94	-12.0 ug/L	3.94	32.82%
Sn 189.927†	-4.3		-2.24 ug/L	3.751	-2.24 ug/L	3.751	167.20%
Sr 421.552†	77761.0		127 ug/L	0.3	127 ug/L	0.3	0.26%
Ti 334.940†	464699.3		856 ug/L	0.8	856 ug/L	0.8	0.10%
Tl 190.801†	0.6		5.43 ug/L	2.044	5.43 ug/L	2.044	37.65%
V 292.402†	9807.7		240 ug/L	5.7	240 ug/L	5.7	2.38%
Zn 206.200†	6604.3		817 ug/L	9.1	817 ug/L	9.1	1.12%

Sequence No.: 80
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 5/3/2012 5:22:24 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	292803.9	101 %	0.5			0.53%
Sc 361.383	2423397.9	97.1 %	0.70			0.72%
Ag 328.068†	66529.8	522 ug/L	2.3	522 ug/L	2.3	0.45%
QC value within limits for Ag	328.068	Recovery = 104.38%				
Al 308.215†	43618.5	25200 ug/L	117.9	25200 ug/L	117.9	0.47%
QC value within limits for Al	308.215	Recovery = 100.75%				
As 188.979†	423.7	527 ug/L	5.5	527 ug/L	5.5	1.04%
QC value within limits for As	188.979	Recovery = 105.36%				
Ba 233.527†	40058.0	526 ug/L	2.0	526 ug/L	2.0	0.38%
QC value within limits for Ba	233.527	Recovery = 105.18%				
Be 234.861†	96492.8	514 ug/L	2.2	514 ug/L	2.2	0.43%
QC value within limits for Be	234.861	Recovery = 102.90%				
Ca 315.887†	183190.7	25100 ug/L	76.6	25100 ug/L	76.6	0.30%
QC value within limits for Ca	315.887	Recovery = 100.60%				
Cd 226.502†	3278.1	521 ug/L	2.8	521 ug/L	2.8	0.54%
QC value within limits for Cd	226.502	Recovery = 104.16%				
Co 228.616†	9939.0	528 ug/L	4.1	528 ug/L	4.1	0.78%
QC value within limits for Co	228.616	Recovery = 105.65%				
Cr 267.716†	16749.1	520 ug/L	3.4	520 ug/L	3.4	0.66%
QC value within limits for Cr	267.716	Recovery = 103.94%				
Cu 324.752†	148663.7	495 ug/L	0.7	495 ug/L	0.7	0.15%
QC value within limits for Cu	324.752	Recovery = 98.95%				
Fe 259.939†	501873.6	41600 ug/L	158.8	41600 ug/L	158.8	0.38%
QC value within limits for Fe	259.939	Recovery = 103.99%				
K 766.490†	110407.9	25500 ug/L	37.6	25500 ug/L	37.6	0.15%
QC value within limits for K	766.490	Recovery = 102.05%				
Mg 279.077†	228833.0	25200 ug/L	162.1	25200 ug/L	162.1	0.64%
QC value within limits for Mg	279.077	Recovery = 100.85%				
Mn 257.610†	235078.8	514 ug/L	0.7	514 ug/L	0.7	0.14%
QC value within limits for Mn	257.610	Recovery = 102.74%				
Mo 202.031†	1647.8	514 ug/L	3.8	514 ug/L	3.8	0.73%
QC value within limits for Mo	202.031	Recovery = 102.87%				
Na 589.592†	245093.6	25500 ug/L	79.7	25500 ug/L	79.7	0.31%
QC value within limits for Na	589.592	Recovery = 101.87%				
Ni 231.604†	4683.4	525 ug/L	4.8	525 ug/L	4.8	0.92%
QC value within limits for Ni	231.604	Recovery = 104.92%				
Pb 220.353†	798.6	527 ug/L	6.3	527 ug/L	6.3	1.19%
QC value within limits for Pb	220.353	Recovery = 105.36%				
Sb 206.836†	760.6	525 ug/L	2.4	525 ug/L	2.4	0.45%
QC value within limits for Sb	206.836	Recovery = 104.92%				
Se 196.026†	283.0	504 ug/L	9.3	504 ug/L	9.3	1.85%
QC value within limits for Se	196.026	Recovery = 100.74%				
Sn 189.927†	524.0	423 ug/L	2.6	423 ug/L	2.6	0.61%
QC value within limits for Sn	189.927	Recovery = 105.77%				
Sr 421.552†	251260.6	410 ug/L	1.2	410 ug/L	1.2	0.29%
QC value within limits for Sr	421.552	Recovery = 102.61%				
Ti 334.940†	223424.2	412 ug/L	0.4	412 ug/L	0.4	0.11%
QC value within limits for Ti	334.940	Recovery = 102.94%				
Tl 190.801†	549.6	530 ug/L	6.8	530 ug/L	6.8	1.28%
QC value within limits for Tl	190.801	Recovery = 105.93%				
V 292.402†	21653.0	533 ug/L	2.0	533 ug/L	2.0	0.37%
QC value within limits for V	292.402	Recovery = 106.53%				
Zn 206.200†	4345.3	541 ug/L	4.9	541 ug/L	4.9	0.91%
QC value within limits for Zn	206.200	Recovery = 108.19%				

All analyte(s) passed QC.

Sequence No.: 81
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 5/3/2012 5:27:37 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	292284.5	101 %	0.3			0.29%
Sc 361.383	2464698.1	98.8 %	0.67			0.68%
Ag 328.068†	-42.9	-0.013 ug/L	0.2795	-0.013 ug/L	0.2795	>999.9%
QC value within limits for Ag		328.068	Recovery =	Not calculated		
Al 308.215†	29.1	19.2 ug/L	3.32	19.2 ug/L	3.32	17.25%
QC value within limits for Al		308.215	Recovery =	Not calculated		
As 188.979†	2.3	-0.465 ug/L	1.3550	-0.465 ug/L	1.3550	291.61%
QC value within limits for As		188.979	Recovery =	Not calculated		
Ba 233.527†	12.7	0.144 ug/L	0.1324	0.144 ug/L	0.1324	91.97%
QC value within limits for Ba		233.527	Recovery =	Not calculated		
Be 234.861†	14.2	0.159 ug/L	0.0253	0.159 ug/L	0.0253	15.90%
QC value within limits for Be		234.861	Recovery =	Not calculated		
Ca 315.887†	119.2	4.73 ug/L	1.332	4.73 ug/L	1.332	28.17%
QC value within limits for Ca		315.887	Recovery =	Not calculated		
Cd 226.502†	-1.4	0.005 ug/L	0.1027	0.005 ug/L	0.1027	>999.9%
QC value within limits for Cd		226.502	Recovery =	Not calculated		
Co 228.616†	-1.0	0.031 ug/L	0.2736	0.031 ug/L	0.2736	876.17%
QC value within limits for Co		228.616	Recovery =	Not calculated		
Cr 267.716†	8.5	0.277 ug/L	0.0567	0.277 ug/L	0.0567	20.50%
QC value within limits for Cr		267.716	Recovery =	Not calculated		
Cu 324.752†	534.3	2.10 ug/L	0.160	2.10 ug/L	0.160	7.62%
QC value within limits for Cu		324.752	Recovery =	Not calculated		
Fe 259.939†	451.4	32.7 ug/L	2.75	32.7 ug/L	2.75	8.40%
QC value within limits for Fe		259.939	Recovery =	Not calculated		
K 766.490†	248.2	7.35 ug/L	7.832	7.35 ug/L	7.832	106.57%
QC value within limits for K		766.490	Recovery =	Not calculated		
Mg 279.077†	73.4	8.59 ug/L	0.899	8.59 ug/L	0.899	10.46%
QC value within limits for Mg		279.077	Recovery =	Not calculated		
Mn 257.610†	223.5	0.280 ug/L	0.0199	0.280 ug/L	0.0199	7.13%
QC value within limits for Mn		257.610	Recovery =	Not calculated		
Mo 202.031†	-0.2	0.731 ug/L	0.1075	0.731 ug/L	0.1075	14.70%
QC value within limits for Mo		202.031	Recovery =	Not calculated		
Na 589.592†	137.4	7.00 ug/L	2.585	7.00 ug/L	2.585	36.93%
QC value within limits for Na		589.592	Recovery =	Not calculated		
Ni 231.604†	-0.2	0.381 ug/L	0.2021	0.381 ug/L	0.2021	53.04%
QC value within limits for Ni		231.604	Recovery =	Not calculated		
Pb 220.353†	-2.6	-0.148 ug/L	2.5917	-0.148 ug/L	2.5917	>999.9%
QC value within limits for Pb		220.353	Recovery =	Not calculated		
Sb 206.836†	-1.0	-0.408 ug/L	1.4471	-0.408 ug/L	1.4471	354.47%
QC value within limits for Sb		206.836	Recovery =	Not calculated		
Se 196.026†	-0.3	3.77 ug/L	2.404	3.77 ug/L	2.404	63.80%
QC value within limits for Se		196.026	Recovery =	Not calculated		
Sn 189.927†	1.0	-3.51 ug/L	4.074	-3.51 ug/L	4.074	115.97%
QC value within limits for Sn		189.927	Recovery =	Not calculated		
Sr 421.552†	87.5	0.126 ug/L	0.0106	0.126 ug/L	0.0106	8.38%
QC value within limits for Sr		421.552	Recovery =	Not calculated		
Ti 334.940†	87.9	0.168 ug/L	0.0211	0.168 ug/L	0.0211	12.60%
QC value within limits for Ti		334.940	Recovery =	Not calculated		
Tl 190.801†	1.0	2.90 ug/L	0.585	2.90 ug/L	0.585	20.21%
QC value within limits for Tl		190.801	Recovery =	Not calculated		
V 292.402†	11.5	0.164 ug/L	0.1195	0.164 ug/L	0.1195	72.91%
QC value within limits for V		292.402	Recovery =	Not calculated		
Zn 206.200†	5.2	0.584 ug/L	0.4301	0.584 ug/L	0.4301	73.68%
QC value within limits for Zn		206.200	Recovery =	Not calculated		

All analyte(s) passed QC.

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Sequence No.: 1                               Autosampler Location: 1
Sample ID: STD1-Blank                         Date Collected: 5/9/2012 11:28:46 AM
Analyst:                                       Data Type: Reprocessed on 5/9/2012 12:57:36 PM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Mean Data: STD1-Blank

Analyte	Mean Corrected		RSD		Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units	
Sc Radial	259374.6	563.02	0.22%	100	%	
Sc 361.383	2469353.7	25494.63	1.03%	100	%	
Ag 328.068†	-160.3	34.98	21.82%	[0.00]	ug/L	
Al 308.215†	34.3	7.33	21.37%	[0.00]	ug/L	
As 188.979†	-12.1	2.60	21.39%	[0.00]	ug/L	
Ba 233.527†	-30.1	2.77	9.20%	[0.00]	ug/L	
Be 234.861†	-138.5	2.23	1.61%	[0.00]	ug/L	
Ca 315.887†	-585.9	13.19	2.25%	[0.00]	ug/L	
Cd 226.502†	-27.3	1.71	6.27%	[0.00]	ug/L	
Co 228.616†	-84.2	1.03	1.23%	[0.00]	ug/L	
Cr 267.716†	84.4	3.56	4.21%	[0.00]	ug/L	
Cu 324.752†	2135.0	16.86	0.79%	[0.00]	ug/L	
Fe 259.939†	115.1	3.71	3.22%	[0.00]	ug/L	
K 766.490†	-2209.2	167.30	7.57%	[0.00]	ug/L	
Mg 279.077†	77.5	23.88	30.82%	[0.00]	ug/L	
Mn 257.610†	209.5	5.69	2.71%	[0.00]	ug/L	
Mo 202.031†	-15.0	2.24	14.87%	[0.00]	ug/L	
Na 589.592†	863.6	34.96	4.05%	[0.00]	ug/L	
Ni 231.604†	-118.7	3.87	3.26%	[0.00]	ug/L	
Pb 220.353†	24.4	0.31	1.25%	[0.00]	ug/L	
Sb 206.836†	36.8	0.40	1.10%	[0.00]	ug/L	
Se 196.026†	-4.6	1.05	22.51%	[0.00]	ug/L	
Sn 189.927†	-1.2	1.84	150.75%	[0.00]	ug/L	
Sr 421.552†	236.1	30.15	12.77%	[0.00]	ug/L	
Ti 334.940†	-244.5	10.30	4.21%	[0.00]	ug/L	
Tl 190.801†	-18.2	2.91	15.92%	[0.00]	ug/L	
V 292.402†	64.2	10.48	16.32%	[0.00]	ug/L	
Zn 206.200†	-1.0	4.86	476.20%	[0.00]	ug/L	

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Sequence No.: 2                               Autosampler Location: 14
Sample ID: Calib Std 1Maj                     Date Collected: 5/9/2012 11:34:54 AM
Analyst:                                       Data Type: Reprocessed on 5/9/2012 12:57:37 PM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Mean Data: Calib Std 1Maj

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc Radial	255536.1	1017.75	0.40%	98.5 %
Sc 361.383	2480205.9	20713.17	0.84%	100 %
Al 308.215†	62.0	8.97	14.47%	[25] ug/L
Ba 233.527†	56.9	1.95	3.43%	[0.5] ug/L
Be 234.861†	65.9	3.85	5.84%	[0.5] ug/L
Ca 315.887†	374.3	8.89	2.38%	[25] ug/L
Cd 226.502†	2.8	0.22	7.83%	[0.5] ug/L
Co 228.616†	16.4	2.37	14.46%	[0.5] ug/L
Fe 259.939†	712.0	7.43	1.04%	[40] ug/L
K 766.490†	112.1	57.94	51.69%	[25] ug/L
Mg 279.077†	387.0	4.98	1.29%	[25] ug/L
Na 589.592†	388.4	8.69	2.24%	[25] ug/L
Sr 421.552†	325.0	8.59	2.64%	[0.4] ug/L
Ti 334.940†	261.8	18.20	6.95%	[0.4] ug/L
V 292.402†	35.7	5.95	16.66%	[0.5] ug/L

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=====
Sequence No.: 3                               Autosampler Location: 2
Sample ID: Calib Std 1                       Date Collected: 5/9/2012 11:41:04 AM
Analyst:                                     Data Type: Reprocessed on 5/9/2012 12:57:38 PM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                           Initial Sample Vol:
Dilution:                                   Sample Prep Vol:
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Mean Data: Calib Std 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc Radial	256411.3	1241.89	0.48%	98.9 %
Sc 361.383	2469931.0	6791.54	0.27%	100 %
Ag 328.068†	946.2	45.55	4.81%	[5] ug/L
Al 308.215†	1152.7	19.24	1.67%	[250] ug/L
As 188.979†	6.8	2.47	36.16%	[5] ug/L
Ba 233.527†	443.9	8.47	1.91%	[5] ug/L
Be 234.861†	700.7	9.71	1.39%	[5] ug/L
Ca 315.887†	2750.7	28.41	1.03%	[250] ug/L
Cd 226.502†	43.6	2.08	4.77%	[5] ug/L
Co 228.616†	144.3	3.03	2.10%	[5] ug/L
Cr 267.716†	347.0	0.70	0.20%	[5] ug/L
Cu 324.752†	1569.8	29.99	1.91%	[5] ug/L
Fe 259.939†	6915.0	78.27	1.13%	[400] ug/L
K 766.490†	1199.8	64.92	5.41%	[250] ug/L
Mg 279.077†	3722.0	59.47	1.60%	[250] ug/L
Mn 257.610†	4742.7	24.26	0.51%	[5] ug/L
Mo 202.031†	24.5	0.24	0.99%	[5] ug/L
Na 589.592†	3072.3	18.55	0.60%	[250] ug/L
Ni 231.604†	68.4	2.32	3.39%	[5] ug/L
Pb 220.353†	9.1	3.62	39.61%	[5] ug/L
Sb 206.836†	12.7	2.82	22.22%	[5] ug/L
Se 196.026†	0.3	2.45	800.62%	[5] ug/L
Sn 189.927†	5.9	2.15	36.64%	[4] ug/L
Sr 421.552†	3013.2	54.50	1.81%	[4] ug/L
Ti 334.940†	2541.1	66.83	2.63%	[4] ug/L
Tl 190.801†	8.0	1.21	15.17%	[5] ug/L
V 292.402†	260.5	21.55	8.27%	[5] ug/L
Zn 206.200†	96.0	1.16	1.21%	[5] ug/L


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=====
Sequence No.: 4                               Autosampler Location: 3
Sample ID: Calib Std 2                         Date Collected: 5/9/2012 11:46:19 AM
Analyst:                                       Data Type: Reprocessed on 5/9/2012 12:57:39 PM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Mean Data: Calib Std 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc Radial	261454.3	1481.91	0.57%	101 %
Sc 361.383	2497900.2	19271.96	0.77%	101 %
Ag 328.068†	8957.6	74.83	0.84%	[50] ug/L
Al 308.215†	4978.0	31.32	0.63%	[2500] ug/L
As 188.979†	74.2	0.41	0.55%	[50] ug/L
Ba 233.527†	4249.8	33.97	0.80%	[50] ug/L
Be 234.861†	7125.2	49.13	0.69%	[50] ug/L
Ca 315.887†	24831.1	270.72	1.09%	[2500] ug/L
Cd 226.502†	433.0	5.36	1.24%	[50] ug/L
Co 228.616†	1426.2	7.13	0.50%	[50] ug/L
Cr 267.716†	2870.2	37.62	1.31%	[50] ug/L
Cu 324.752†	14203.3	41.60	0.29%	[50] ug/L
Fe 259.939†	66672.4	404.18	0.61%	[4000] ug/L
K 766.490†	12770.1	67.91	0.53%	[2500] ug/L
Mg 279.077†	34644.1	177.45	0.51%	[2500] ug/L
Mn 257.610†	42533.9	179.15	0.42%	[50] ug/L
Mo 202.031†	253.0	2.31	0.91%	[50] ug/L
Na 589.592†	28338.5	113.51	0.40%	[2500] ug/L
Ni 231.604†	657.7	4.43	0.67%	[50] ug/L
Pb 220.353†	108.0	4.57	4.24%	[50] ug/L
Sb 206.836†	104.7	1.75	1.67%	[50] ug/L
Se 196.026†	33.4	4.58	13.72%	[50] ug/L
Sn 189.927†	91.0	1.66	1.82%	[40] ug/L
Sr 421.552†	29545.4	202.48	0.69%	[40] ug/L
Ti 334.940†	24406.7	87.57	0.36%	[40] ug/L
Tl 190.801†	79.2	0.48	0.61%	[50] ug/L
V 292.402†	2557.9	38.39	1.50%	[50] ug/L
Zn 206.200†	772.3	5.72	0.74%	[50] ug/L

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Sequence No.: 5                               Autosampler Location: 4
Sample ID: Calib Std 3                       Date Collected: 5/9/2012 11:51:34 AM
Analyst:                                     Data Type: Reprocessed on 5/9/2012 12:57:40 PM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                           Initial Sample Vol:
Dilution:                                    Sample Prep Vol:
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Mean Data: Calib Std 3

Analyte	Mean Corrected		RSD		Calib
	Intensity	Std.Dev.	RSD	Conc.	Units
Sc Radial	254058.5	662.66	0.26%	98.0	%
Sc 361.383	2418679.2	6030.48	0.25%	97.9	%
Ag 328.068†	91609.3	795.67	0.87%	[500]	ug/L
Al 308.215†	48066.2	92.38	0.19%	[25000]	ug/L
As 188.979†	758.8	3.18	0.42%	[500]	ug/L
Ba 233.527†	42650.0	539.79	1.27%	[500]	ug/L
Be 234.861†	74298.8	210.31	0.28%	[500]	ug/L
Ca 315.887†	250344.4	181.43	0.07%	[25000]	ug/L
Cd 226.502†	4389.9	42.33	0.96%	[500]	ug/L
Co 228.616†	14221.1	76.62	0.54%	[500]	ug/L
Cr 267.716†	28417.2	157.73	0.56%	[500]	ug/L
Cu 324.752†	143531.2	185.64	0.13%	[500]	ug/L
Fe 259.939†	661882.6	2287.76	0.35%	[40000]	ug/L
K 766.490†	130455.4	489.25	0.38%	[25000]	ug/L
Mg 279.077†	348647.8	1193.27	0.34%	[25000]	ug/L
Mn 257.610†	418439.7	1987.41	0.47%	[500]	ug/L
Mo 202.031†	2554.9	17.24	0.67%	[500]	ug/L
Na 589.592†	293280.4	2452.54	0.84%	[25000]	ug/L
Ni 231.604†	6431.3	45.81	0.71%	[500]	ug/L
Pb 220.353†	1071.6	2.40	0.22%	[500]	ug/L
Sb 206.836†	1105.8	5.89	0.53%	[500]	ug/L
Se 196.026†	374.2	3.07	0.82%	[500]	ug/L
Sn 189.927†	941.7	5.95	0.63%	[400]	ug/L
Sr 421.552†	303365.3	2542.60	0.84%	[400]	ug/L
Ti 334.940†	250261.8	503.19	0.20%	[400]	ug/L
Tl 190.801†	785.3	6.40	0.82%	[500]	ug/L
V 292.402†	25883.6	80.04	0.31%	[500]	ug/L
Zn 206.200†	7797.0	49.14	0.63%	[500]	ug/L

Sequence No.: 6

Autosampler Location: 9

Sample ID: Calib Std 4

Date Collected: 5/9/2012 11:56:54 AM

Analyst:

Data Type: Reprocessed on 5/9/2012 12:57:41 PM

Logged In Analyst (Original) : inorg

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: Calib Std 4

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
Sc Radial	238707.3	3158.99	1.32%	92.0	%
Sc 361.383	2216745.9	9218.89	0.42%	89.8	%
Al 308.215†	492397.9	2320.82	0.47%	[250000]	ug/L
As 188.979†	7650.9	32.62	0.43%	[5000]	ug/L
Ba 233.527†	400832.2	2676.16	0.67%	[5000]	ug/L
Be 234.861†	743204.7	10025.16	1.35%	[5000]	ug/L
Ca 315.887†	2450023.2	2722.60	0.11%	[250000]	ug/L
Cd 226.502†	40173.9	487.45	1.21%	[5000]	ug/L
Co 228.616†	130678.0	106.71	0.08%	[5000]	ug/L
Cr 267.716†	268804.4	321.79	0.12%	[5000]	ug/L
Cu 324.752†	1472431.6	1003.48	0.07%	[5000]	ug/L
Fe 259.939†	6039447.2	78393.49	1.30%	[400000]	ug/L
K 766.490†	1393114.1	6148.78	0.44%	[250000]	ug/L
Mg 279.077†	3297456.6	54025.98	1.64%	[250000]	ug/L
Mn 257.610†	3911458.5	2223.64	0.06%	[5000]	ug/L
Mo 202.031†	24465.5	79.62	0.33%	[5000]	ug/L
Na 589.592†	3011564.0	37888.36	1.26%	[250000]	ug/L
Ni 231.604†	58784.9	278.60	0.47%	[5000]	ug/L
Pb 220.353†	9821.4	100.89	1.03%	[5000]	ug/L
Sb 206.836†	11057.5	74.60	0.67%	[5000]	ug/L
Se 196.026†	3780.8	37.98	1.00%	[5000]	ug/L
Sn 189.927†	8942.4	37.51	0.42%	[4000]	ug/L
Sr 421.552†	2976196.6	39157.10	1.32%	[4000]	ug/L
Ti 334.940†	2441319.7	2273.75	0.09%	[4000]	ug/L
Tl 190.801†	7008.4	80.25	1.15%	[5000]	ug/L
V 292.402†	252322.1	953.87	0.38%	[5000]	ug/L
Zn 206.200†	71377.6	437.84	0.61%	[5000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Wt. Lin	40.8	180.9	0.00000	0.999900	
Al 308.215	5	Wt. Lin	2.6	2.572	0.00000	0.908638	
As 188.979	4	Wt. Lin	-0.8	1.517	0.00000	0.999959	
Ba 233.527	5	Wt. Lin	15.0	83.93	0.00000	0.999623	
Be 234.861	5	Wt. Lin	-7.1	145.5	0.00000	0.999729	
Ca 315.887	5	Wt. Lin	124.5	10.04	0.00000	0.999604	
Cd 226.502	5	Wt. Lin	-1.5	8.620	0.00000	0.999058	
Co 228.616	5	Wt. Lin	2.5	27.84	0.00000	0.999328	
Cr 267.716	4	Wt. Lin	70.1	55.46	0.00000	0.999722	
Cu 324.752	4	Wt. Lin	127.6	287.8	0.00000	0.999815	
Fe 259.939	5	Wt. Lin	61.9	16.34	0.00000	0.998853	
K 766.490	5	Wt. Lin	-18.8	5.204	0.00000	0.998763	
Mg 279.077	5	Wt. Lin	41.4	13.90	0.00000	0.999185	
Mn 257.610	4	Wt. Lin	665.0	817.7	0.00000	0.999469	
Mo 202.031	4	Wt. Lin	-0.5	5.023	0.00000	0.999808	
Na 589.592	5	Wt. Lin	95.2	11.74	0.00000	0.999695	
Ni 231.604	4	Wt. Lin	6.0	12.53	0.00000	0.998903	
Pb 220.353	4	Wt. Lin	-1.3	2.095	0.00000	0.998860	
Sb 206.836	4	Wt. Lin	1.8	2.162	0.00000	0.999409	
Se 196.026	4	Wt. Lin	-3.5	0.7501	0.00000	0.999922	
Sn 189.927	4	Wt. Lin	-3.4	2.318	0.00000	0.999654	
Sr 421.552	5	Wt. Lin	26.2	746.8	0.00000	0.999948	
Ti 334.940	5	Wt. Lin	14.6	619.0	0.00000	0.999874	
Tl 190.801	4	Wt. Lin	0.5	1.513	0.00000	0.998476	
V 292.402	5	Wt. Lin	10.2	50.82	0.00000	0.999917	
Zn 206.200	4	Wt. Lin	21.4	14.94	0.00000	0.999334	

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Sequence No.: 7                               Autosampler Location: 6
Sample ID: ICV                               Date Collected: 5/9/2012 12:18:07 PM
Analyst:                                     Data Type: Reprocessed on 5/9/2012 12:57:43 PM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                           Initial Sample Vol:
Dilution:                                   Sample Prep Vol:
=====

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Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	250940.1	96.7 %	0.53			0.55%
Sc 361.383	2390896.8	96.8 %	0.43			0.44%
Ag 328.068†	28105.0	158 ug/L	1.1	158 ug/L	1.1	0.72%
QC value within limits for Ag 328.068 Recovery = 98.57%						
Al 308.215†	75411.3	29300 ug/L	162.6	29300 ug/L	162.6	0.55%
QC value less than the lower limit for Al 308.215 Recovery = 73.32%						
As 188.979†	599.7	400 ug/L	1.4	400 ug/L	1.4	0.35%
QC value within limits for As 188.979 Recovery = 100.06%						
Ba 233.527†	98118.0	1160 ug/L	3.3	1160 ug/L	3.3	0.28%
QC value within limits for Ba 233.527 Recovery = 96.99%						
Be 234.861†	59807.0	411 ug/L	2.7	411 ug/L	2.7	0.67%
QC value within limits for Be 234.861 Recovery = 102.74%						
Ca 315.887†	392346.3	39100 ug/L	71.2	39100 ug/L	71.2	0.18%
QC value within limits for Ca 315.887 Recovery = 97.69%						
Cd 226.502†	3450.3	398 ug/L	1.3	398 ug/L	1.3	0.33%
QC value within limits for Cd 226.502 Recovery = 99.42%						
Co 228.616†	11190.6	400 ug/L	1.1	400 ug/L	1.1	0.28%
QC value within limits for Co 228.616 Recovery = 99.98%						
Cr 267.716†	22683.6	408 ug/L	2.7	408 ug/L	2.7	0.65%
QC value within limits for Cr 267.716 Recovery = 102.07%						
Cu 324.752†	114411.3	396 ug/L	0.8	396 ug/L	0.8	0.19%
QC value within limits for Cu 324.752 Recovery = 99.02%						
Fe 259.939†	646367.0	39600 ug/L	182.1	39600 ug/L	182.1	0.46%
QC value within limits for Fe 259.939 Recovery = 98.90%						
K 766.490†	207188.9	39800 ug/L	202.3	39800 ug/L	202.3	0.51%
QC value within limits for K 766.490 Recovery = 99.55%						
Mg 279.077†	538243.3	38700 ug/L	316.7	38700 ug/L	316.7	0.82%
QC value within limits for Mg 279.077 Recovery = 96.78%						
Mn 257.610†	337010.8	411 ug/L	1.8	411 ug/L	1.8	0.45%
QC value within limits for Mn 257.610 Recovery = 102.83%						
Mo 202.031†	2037.3	407 ug/L	1.3	407 ug/L	1.3	0.32%
QC value within limits for Mo 202.031 Recovery = 101.63%						
Na 589.592†	455159.0	38800 ug/L	269.6	38800 ug/L	269.6	0.70%
QC value within limits for Na 589.592 Recovery = 96.89%						
Ni 231.604†	5125.2	408 ug/L	5.0	408 ug/L	5.0	1.22%
QC value within limits for Ni 231.604 Recovery = 101.94%						
Pb 220.353†	844.5	404 ug/L	0.4	404 ug/L	0.4	0.11%
QC value within limits for Pb 220.353 Recovery = 100.97%						
Sb 206.836†	818.4	374 ug/L	2.3	374 ug/L	2.3	0.61%
QC value within limits for Sb 206.836 Recovery = 93.41%						
Se 196.026†	296.5	407 ug/L	5.7	407 ug/L	5.7	1.40%
QC value within limits for Se 196.026 Recovery = 101.76%						
Sn 189.927†	938.8	409 ug/L	2.5	409 ug/L	2.5	0.62%
QC value within limits for Sn 189.927 Recovery = 102.30%						
Sr 421.552†	291863.5	391 ug/L	2.7	391 ug/L	2.7	0.69%
QC value within limits for Sr 421.552 Recovery = 97.70%						
Ti 334.940†	254528.7	411 ug/L	1.1	411 ug/L	1.1	0.27%
QC value within limits for Ti 334.940 Recovery = 102.78%						
Tl 190.801†	619.9	407 ug/L	5.4	407 ug/L	5.4	1.32%
QC value within limits for Tl 190.801 Recovery = 101.77%						
V 292.402†	21033.5	404 ug/L	4.1	404 ug/L	4.1	1.01%
QC value within limits for V 292.402 Recovery = 101.12%						
Zn 206.200†	6267.1	418 ug/L	1.4	418 ug/L	1.4	0.32%
QC value within limits for Zn 206.200 Recovery = 104.49%						
QC Failed. Continue with analysis.						

Sequence No.: 8

Autosampler Location: 1

Sample ID: ICB

Date Collected: 5/9/2012 12:23:18 PM

Analyst:

Data Type: Reprocessed on 5/9/2012 12:57:44 PM

Logged In Analyst (Original) : inorg

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	253199.3	97.6 %	1.66			1.71%
Sc 361.383	2494277.6	101 %	0.6			0.61%
Ag 328.068†	20.2	-0.114 ug/L	0.4406	-0.114 ug/L	0.4406	386.63%
QC value within limits for Ag	328.068	Recovery =	Not calculated			
Al 308.215†	15.9	5.18 ug/L	1.797	5.18 ug/L	1.797	34.71%
QC value within limits for Al	308.215	Recovery =	Not calculated			
As 188.979†	-1.1	-0.212 ug/L	0.2328	-0.212 ug/L	0.2328	110.03%
QC value within limits for As	188.979	Recovery =	Not calculated			
Ba 233.527†	24.5	0.112 ug/L	0.0809	0.112 ug/L	0.0809	71.95%
QC value within limits for Ba	233.527	Recovery =	Not calculated			
Be 234.861†	7.6	0.100 ug/L	0.0331	0.100 ug/L	0.0331	33.01%
QC value within limits for Be	234.861	Recovery =	Not calculated			
Ca 315.887†	90.3	-3.41 ug/L	0.790	-3.41 ug/L	0.790	23.18%
QC value within limits for Ca	315.887	Recovery =	Not calculated			
Cd 226.502†	1.4	0.325 ug/L	0.1167	0.325 ug/L	0.1167	35.97%
QC value within limits for Cd	226.502	Recovery =	Not calculated			
Co 228.616†	10.0	0.268 ug/L	0.1439	0.268 ug/L	0.1439	53.74%
QC value within limits for Co	228.616	Recovery =	Not calculated			
Cr 267.716†	7.6	-1.13 ug/L	0.129	-1.13 ug/L	0.129	11.43%
QC value within limits for Cr	267.716	Recovery =	Not calculated			
Cu 324.752†	-12.1	-0.484 ug/L	0.1352	-0.484 ug/L	0.1352	27.94%
QC value within limits for Cu	324.752	Recovery =	Not calculated			
Fe 259.939†	150.4	5.42 ug/L	1.557	5.42 ug/L	1.557	28.73%
QC value within limits for Fe	259.939	Recovery =	Not calculated			
K 766.490†	121.3	26.9 ug/L	9.89	26.9 ug/L	9.89	36.72%
QC value within limits for K	766.490	Recovery =	Not calculated			
Mg 279.077†	112.2	5.08 ug/L	0.192	5.08 ug/L	0.192	3.78%
QC value within limits for Mg	279.077	Recovery =	Not calculated			
Mn 257.610†	54.1	-0.747 ug/L	0.0295	-0.747 ug/L	0.0295	3.94%
QC value within limits for Mn	257.610	Recovery =	Not calculated			
Mo 202.031†	2.9	0.682 ug/L	0.2306	0.682 ug/L	0.2306	33.80%
QC value within limits for Mo	202.031	Recovery =	Not calculated			
Na 589.592†	264.0	14.4 ug/L	3.23	14.4 ug/L	3.23	22.45%
QC value within limits for Na	589.592	Recovery =	Not calculated			
Ni 231.604†	2.2	-0.304 ug/L	0.3532	-0.304 ug/L	0.3532	116.05%
QC value within limits for Ni	231.604	Recovery =	Not calculated			
Pb 220.353†	3.1	2.11 ug/L	1.357	2.11 ug/L	1.357	64.32%
QC value within limits for Pb	220.353	Recovery =	Not calculated			
Sb 206.836†	-3.0	-2.20 ug/L	0.895	-2.20 ug/L	0.895	40.59%
QC value within limits for Sb	206.836	Recovery =	Not calculated			
Se 196.026†	-0.9	3.34 ug/L	3.557	3.34 ug/L	3.557	106.38%
QC value within limits for Se	196.026	Recovery =	Not calculated			
Sn 189.927†	2.3	2.44 ug/L	0.539	2.44 ug/L	0.539	22.12%
QC value within limits for Sn	189.927	Recovery =	Not calculated			
Sr 421.552†	58.4	0.043 ug/L	0.0290	0.043 ug/L	0.0290	67.40%
QC value within limits for Sr	421.552	Recovery =	Not calculated			
Ti 334.940†	53.6	0.063 ug/L	0.1001	0.063 ug/L	0.1001	159.04%
QC value within limits for Ti	334.940	Recovery =	Not calculated			
Tl 190.801†	-0.8	-0.846 ug/L	0.8580	-0.846 ug/L	0.8580	101.38%
QC value within limits for Tl	190.801	Recovery =	Not calculated			
V 292.402†	11.7	0.026 ug/L	0.5894	0.026 ug/L	0.5894	>999.9%
QC value within limits for V	292.402	Recovery =	Not calculated			
Zn 206.200†	-0.8	-1.49 ug/L	0.101	-1.49 ug/L	0.101	6.79%
QC value within limits for Zn	206.200	Recovery =	Not calculated			

All analyte(s) passed QC.

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Sequence No.: 9                               Autosampler Location: 5
Sample ID: AFCEE CRI                         Date Collected: 5/9/2012 12:29:26 PM
Analyst:                                     Data Type: Reprocessed on 5/9/2012 12:57:45 PM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                           Initial Sample Vol:
Dilution:                                   Sample Prep Vol:
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Mean Data: AFCEE CRI

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	260932.2	101 %	0.7			0.67%
Sc 361.383	2490466.9	101 %	1.7			1.69%
Ag 328.068†	1783.6	9.64 ug/L	0.382	9.64 ug/L	0.382	3.97%
QC value within limits for Ag 328.068 Recovery = 96.40%						
Al 308.215†	394.0	152 ug/L	1.2	152 ug/L	1.2	0.76%
QC value less than the lower limit for Al 308.215 Recovery = 76.15%						
As 188.979†	44.8	30.1 ug/L	1.78	30.1 ug/L	1.78	5.92%
QC value within limits for As 188.979 Recovery = 100.36%						
Ba 233.527†	849.9	9.94 ug/L	0.240	9.94 ug/L	0.240	2.41%
QC value within limits for Ba 233.527 Recovery = 99.41%						
Be 234.861†	586.5	4.08 ug/L	0.084	4.08 ug/L	0.084	2.07%
QC value within limits for Be 234.861 Recovery = 81.61%						
Ca 315.887†	9925.1	976 ug/L	3.3	976 ug/L	3.3	0.34%
QC value within limits for Ca 315.887 Recovery = 97.64%						
Cd 226.502†	42.7	5.12 ug/L	0.294	5.12 ug/L	0.294	5.75%
QC value within limits for Cd 226.502 Recovery = 102.41%						
Co 228.616†	283.1	10.1 ug/L	0.30	10.1 ug/L	0.30	2.94%
QC value within limits for Co 228.616 Recovery = 100.63%						
Cr 267.716†	571.9	9.05 ug/L	0.336	9.05 ug/L	0.336	3.72%
QC value within limits for Cr 267.716 Recovery = 90.54%						
Cu 324.752†	2828.2	9.33 ug/L	0.473	9.33 ug/L	0.473	5.07%
QC value within limits for Cu 324.752 Recovery = 93.28%						
Fe 259.939†	920.2	52.5 ug/L	0.96	52.5 ug/L	0.96	1.83%
QC value within limits for Fe 259.939 Recovery = 105.08%						
K 766.490†	5230.9	1010 ug/L	21.1	1010 ug/L	21.1	2.09%
QC value within limits for K 766.490 Recovery = 100.88%						
Mg 279.077†	13807.8	990 ug/L	11.1	990 ug/L	11.1	1.12%
QC value within limits for Mg 279.077 Recovery = 99.02%						
Mn 257.610†	8842.9	10.0 ug/L	0.23	10.0 ug/L	0.23	2.28%
QC value within limits for Mn 257.610 Recovery = 100.02%						
Mo 202.031†	77.0	15.4 ug/L	0.22	15.4 ug/L	0.22	1.42%
QC value within limits for Mo 202.031 Recovery = 102.96%						
Na 589.592†	11461.4	968 ug/L	10.8	968 ug/L	10.8	1.11%
QC value within limits for Na 589.592 Recovery = 96.80%						
Ni 231.604†	269.4	21.0 ug/L	0.11	21.0 ug/L	0.11	0.52%
QC value within limits for Ni 231.604 Recovery = 104.91%						
Pb 220.353†	58.0	28.3 ug/L	1.79	28.3 ug/L	1.79	6.33%
QC value within limits for Pb 220.353 Recovery = 113.25%						
Sb 206.836†	104.2	47.3 ug/L	1.67	47.3 ug/L	1.67	3.53%
QC value within limits for Sb 206.836 Recovery = 94.59%						
Se 196.026†	22.0	34.1 ug/L	5.94	34.1 ug/L	5.94	17.43%
QC value within limits for Se 196.026 Recovery = 113.56%						
Sn 189.927†	20.6	10.5 ug/L	0.41	10.5 ug/L	0.41	3.91%
QC value within limits for Sn 189.927 Recovery = 104.57%						
Sr 421.552†	3636.7	4.83 ug/L	0.023	4.83 ug/L	0.023	0.47%
QC value within limits for Sr 421.552 Recovery = 96.69%						
Ti 334.940†	3190.5	5.13 ug/L	0.099	5.13 ug/L	0.099	1.93%
QC value within limits for Ti 334.940 Recovery = 102.60%						
Tl 190.801†	94.3	61.9 ug/L	1.70	61.9 ug/L	1.70	2.74%
QC value within limits for Tl 190.801 Recovery = 103.25%						
V 292.402†	508.7	9.81 ug/L	0.751	9.81 ug/L	0.751	7.66%
QC value within limits for V 292.402 Recovery = 98.08%						
Zn 206.200†	323.7	20.3 ug/L	0.51	20.3 ug/L	0.51	2.52%
QC value within limits for Zn 206.200 Recovery = 101.29%						
QC Failed. Continue with analysis.						

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=====
Sequence No.: 10                               Autosampler Location: 7
Sample ID: ICSA                               Date Collected: 5/9/2012 12:35:39 PM
Analyst:                                       Data Type: Reprocessed on 5/9/2012 12:57:46 PM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
    
```

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	245797.3	94.8 %	0.37			0.39%
Sc 361.383	2315249.0	93.8 %	0.44			0.47%
Ag 328.068†	-2475.4	-0.282 ug/L	0.0982	-0.282 ug/L	0.0982	34.86%
QC value within limits for Ag		328.068	Recovery = Not calculated			
Al 308.215†	486254.1	189000 ug/L	2672.0	189000 ug/L	2672.0	1.41%
QC value less than the lower limit for Al		308.215	Recovery = 75.63%			
As 188.979†	-10.7	2.35 ug/L	0.884	2.35 ug/L	0.884	37.70%
QC value within limits for As		188.979	Recovery = Not calculated			
Ba 233.527†	2259.7	0.333 ug/L	0.5345	0.333 ug/L	0.5345	160.42%
QC value within limits for Ba		233.527	Recovery = Not calculated			
Be 234.861†	164.2	-0.100 ug/L	0.5601	-0.100 ug/L	0.5601	558.02%
QC value within limits for Be		234.861	Recovery = Not calculated			
Ca 315.887†	2438365.4	243000 ug/L	3060.2	243000 ug/L	3060.2	1.26%
QC value within limits for Ca		315.887	Recovery = 97.16%			
Cd 226.502†	128.8	0.205 ug/L	0.6812	0.205 ug/L	0.6812	332.34%
QC value within limits for Cd		226.502	Recovery = Not calculated			
Co 228.616†	166.6	-0.284 ug/L	0.2452	-0.284 ug/L	0.2452	86.45%
QC value within limits for Co		228.616	Recovery = Not calculated			
Cr 267.716†	-88.5	-0.920 ug/L	0.3119	-0.920 ug/L	0.3119	33.89%
QC value within limits for Cr		267.716	Recovery = Not calculated			
Cu 324.752†	-1360.5	-5.17 ug/L	0.198	-5.17 ug/L	0.198	3.83%
QC value within limits for Cu		324.752	Recovery = Not calculated			
Fe 259.939†	3479665.7	213000 ug/L	2849.7	213000 ug/L	2849.7	1.34%
QC value within limits for Fe		259.939	Recovery = 94.66%			
K 766.490†	7.6	5.08 ug/L	19.371	5.08 ug/L	19.371	381.64%
Mg 279.077†	3407776.7	245000 ug/L	914.2	245000 ug/L	914.2	0.37%
QC value within limits for Mg		279.077	Recovery = 98.04%			
Mn 257.610†	724.4	-0.119 ug/L	0.0372	-0.119 ug/L	0.0372	31.25%
QC value within limits for Mn		257.610	Recovery = Not calculated			
Mo 202.031†	-23.3	-0.051 ug/L	0.5493	-0.051 ug/L	0.5493	>999.9%
QC value within limits for Mo		202.031	Recovery = Not calculated			
Na 589.592†	196.9	8.66 ug/L	5.641	8.66 ug/L	5.641	65.14%
Ni 231.604†	56.1	-0.467 ug/L	0.5532	-0.467 ug/L	0.5532	118.36%
QC value within limits for Ni		231.604	Recovery = Not calculated			
Pb 220.353†	-11.8	-2.53 ug/L	3.136	-2.53 ug/L	3.136	123.96%
QC value within limits for Pb		220.353	Recovery = Not calculated			
Sb 206.836†	13.6	-1.35 ug/L	0.297	-1.35 ug/L	0.297	22.05%
QC value within limits for Sb		206.836	Recovery = Not calculated			
Se 196.026†	-37.8	-7.39 ug/L	9.847	-7.39 ug/L	9.847	133.27%
QC value within limits for Se		196.026	Recovery = Not calculated			
Sn 189.927†	-20.3	-0.072 ug/L	1.6393	-0.072 ug/L	1.6393	>999.9%
QC value within limits for Sn		189.927	Recovery = Not calculated			
Sr 421.552†	785.7	1.02 ug/L	0.104	1.02 ug/L	0.104	10.25%
QC value within limits for Sr		421.552	Recovery = Not calculated			
Ti 334.940†	-179.1	-0.313 ug/L	0.0957	-0.313 ug/L	0.0957	30.59%
QC value within limits for Ti		334.940	Recovery = Not calculated			
Tl 190.801†	-3.0	0.884 ug/L	4.1744	0.884 ug/L	4.1744	472.30%
QC value within limits for Tl		190.801	Recovery = Not calculated			
V 292.402†	2698.1	0.064 ug/L	0.5689	0.064 ug/L	0.5689	893.19%
QC value within limits for V		292.402	Recovery = Not calculated			
Zn 206.200†	17.5	-7.29 ug/L	0.357	-7.29 ug/L	0.357	4.89%
QC value within limits for Zn		206.200	Recovery = Not calculated			
QC Failed.	Continue with analysis.					

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=====
Sequence No.: 11                               Autosampler Location: 8
Sample ID: ICSAB                               Date Collected: 5/9/2012 12:40:57 PM
Analyst:                                       Data Type: Reprocessed on 5/9/2012 12:57:47 PM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	240656.5	92.8 %	0.97			1.04%
Sc 361.383	2276726.9	92.2 %	0.22			0.24%
Ag 328.068†	33904.6	201 ug/L	0.5	201 ug/L	0.5	0.23%
QC value within limits for Ag 328.068		Recovery = 100.51%				
Al 308.215†	492574.7	192000 ug/L	1116.4	192000 ug/L	1116.4	0.58%
QC value less than the lower limit for Al 308.215		Recovery = 76.62%				
As 188.979†	134.5	101 ug/L	4.6	101 ug/L	4.6	4.54%
QC value within limits for As 188.979		Recovery = 101.47%				
Ba 233.527†	43296.7	489 ug/L	2.8	489 ug/L	2.8	0.56%
QC value within limits for Ba 233.527		Recovery = 97.80%				
Be 234.861†	76486.7	525 ug/L	4.6	525 ug/L	4.6	0.87%
QC value within limits for Be 234.861		Recovery = 104.91%				
Ca 315.887†	2455661.3	245000 ug/L	1920.4	245000 ug/L	1920.4	0.79%
QC value within limits for Ca 315.887		Recovery = 97.85%				
Cd 226.502†	8330.3	952 ug/L	6.8	952 ug/L	6.8	0.71%
QC value within limits for Cd 226.502		Recovery = 95.15%				
Co 228.616†	13387.4	473 ug/L	1.0	473 ug/L	1.0	0.21%
QC value within limits for Co 228.616		Recovery = 94.69%				
Cr 267.716†	27573.1	498 ug/L	1.0	498 ug/L	1.0	0.20%
QC value within limits for Cr 267.716		Recovery = 99.61%				
Cu 324.752†	149051.6	516 ug/L	0.2	516 ug/L	0.2	0.03%
QC value within limits for Cu 324.752		Recovery = 103.24%				
Fe 259.939†	3514945.7	215000 ug/L	1471.6	215000 ug/L	1471.6	0.68%
QC value within limits for Fe 259.939		Recovery = 95.62%				
K 766.490†	-84.6	-12.6 ug/L	22.78	-12.6 ug/L	22.78	180.29%
Mg 279.077†	3431892.3	247000 ug/L	3641.7	247000 ug/L	3641.7	1.48%
QC value within limits for Mg 279.077		Recovery = 98.73%				
Mn 257.610†	413765.0	505 ug/L	1.9	505 ug/L	1.9	0.37%
QC value within limits for Mn 257.610		Recovery = 101.01%				
Mo 202.031†	2508.5	504 ug/L	3.4	504 ug/L	3.4	0.67%
QC value within limits for Mo 202.031		Recovery = 100.80%				
Na 589.592†	293.3	16.9 ug/L	3.52	16.9 ug/L	3.52	20.86%
Ni 231.604†	12118.7	963 ug/L	2.0	963 ug/L	2.0	0.21%
QC value within limits for Ni 231.604		Recovery = 96.26%				
Pb 220.353†	85.0	44.1 ug/L	5.91	44.1 ug/L	5.91	13.39%
QC value within limits for Pb 220.353		Recovery = 88.24%				
Sb 206.836†	1353.9	615 ug/L	0.5	615 ug/L	0.5	0.08%
QC value within limits for Sb 206.836		Recovery = 102.51%				
Se 196.026†	1.9	46.5 ug/L	16.51	46.5 ug/L	16.51	35.50%
QC value within limits for Se 196.026		Recovery = 93.05%				
Sn 189.927†	1157.4	511 ug/L	4.1	511 ug/L	4.1	0.80%
QC value within limits for Sn 189.927		Recovery = 102.11%				
Sr 421.552†	370453.6	496 ug/L	2.9	496 ug/L	2.9	0.59%
QC value within limits for Sr 421.552		Recovery = 99.20%				
Ti 334.940†	320416.8	518 ug/L	2.5	518 ug/L	2.5	0.48%
QC value within limits for Ti 334.940		Recovery = 103.51%				
Tl 190.801†	150.6	99.0 ug/L	9.45	99.0 ug/L	9.45	9.54%
QC value within limits for Tl 190.801		Recovery = 98.99%				
V 292.402†	28154.7	501 ug/L	2.4	501 ug/L	2.4	0.48%
QC value within limits for V 292.402		Recovery = 100.24%				
Zn 206.200†	14589.6	969 ug/L	2.3	969 ug/L	2.3	0.23%
QC value within limits for Zn 206.200		Recovery = 96.94%				
QC Failed.	Continue with analysis.					


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Sequence No.: 12                               Autosampler Location: 4
Sample ID: CCV                               Date Collected: 5/9/2012 12:46:10 PM
Analyst:                                       Data Type: Reprocessed on 5/9/2012 12:57:48 PM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
=====

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Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	250305.7	96.5 %	0.34			0.35%
Sc 361.383	2421270.5	98.1 %	0.42			0.43%
Ag 328.068†	91117.9	506 ug/L	4.7	506 ug/L	4.7	0.92%
QC value within limits for Ag 328.068		Recovery = 101.24%				
Al 308.215†	48234.7	18800 ug/L	59.8	18800 ug/L	59.8	0.32%
QC value less than the lower limit for Al 308.215		Recovery = 75.05%				
As 188.979†	757.3	505 ug/L	1.5	505 ug/L	1.5	0.29%
QC value within limits for As 188.979		Recovery = 100.98%				
Ba 233.527†	42388.4	500 ug/L	8.8	500 ug/L	8.8	1.76%
QC value within limits for Ba 233.527		Recovery = 99.96%				
Be 234.861†	73619.6	506 ug/L	6.2	506 ug/L	6.2	1.22%
QC value within limits for Be 234.861		Recovery = 101.18%				
Ca 315.887†	251686.6	25100 ug/L	40.3	25100 ug/L	40.3	0.16%
QC value within limits for Ca 315.887		Recovery = 100.25%				
Cd 226.502†	4368.9	504 ug/L	7.8	504 ug/L	7.8	1.54%
QC value within limits for Cd 226.502		Recovery = 100.83%				
Co 228.616†	14216.9	509 ug/L	6.9	509 ug/L	6.9	1.35%
QC value within limits for Co 228.616		Recovery = 101.72%				
Cr 267.716†	28446.6	512 ug/L	7.0	512 ug/L	7.0	1.38%
QC value within limits for Cr 267.716		Recovery = 102.45%				
Cu 324.752†	143669.8	497 ug/L	1.4	497 ug/L	1.4	0.27%
QC value within limits for Cu 324.752		Recovery = 99.49%				
Fe 259.939†	666436.5	40800 ug/L	79.6	40800 ug/L	79.6	0.20%
QC value within limits for Fe 259.939		Recovery = 101.98%				
K 766.490†	132199.3	25400 ug/L	83.1	25400 ug/L	83.1	0.33%
QC value within limits for K 766.490		Recovery = 101.63%				
Mg 279.077†	354766.7	25500 ug/L	161.9	25500 ug/L	161.9	0.63%
QC value within limits for Mg 279.077		Recovery = 102.06%				
Mn 257.610†	418196.5	511 ug/L	2.1	511 ug/L	2.1	0.41%
QC value within limits for Mn 257.610		Recovery = 102.12%				
Mo 202.031†	2548.8	508 ug/L	2.4	508 ug/L	2.4	0.47%
QC value within limits for Mo 202.031		Recovery = 101.67%				
Na 589.592†	296501.4	25200 ug/L	140.4	25200 ug/L	140.4	0.56%
QC value within limits for Na 589.592		Recovery = 100.98%				
Ni 231.604†	6435.7	512 ug/L	8.1	512 ug/L	8.1	1.58%
QC value within limits for Ni 231.604		Recovery = 102.47%				
Pb 220.353†	1064.6	508 ug/L	3.5	508 ug/L	3.5	0.68%
QC value within limits for Pb 220.353		Recovery = 101.61%				
Sb 206.836†	1098.7	502 ug/L	1.6	502 ug/L	1.6	0.31%
QC value within limits for Sb 206.836		Recovery = 100.47%				
Se 196.026†	370.5	505 ug/L	6.2	505 ug/L	6.2	1.23%
QC value within limits for Se 196.026		Recovery = 100.97%				
Sn 189.927†	932.7	405 ug/L	3.1	405 ug/L	3.1	0.76%
QC value within limits for Sn 189.927		Recovery = 101.25%				
Sr 421.552†	306122.5	410 ug/L	2.6	410 ug/L	2.6	0.64%
QC value within limits for Sr 421.552		Recovery = 102.47%				
Ti 334.940†	250717.0	405 ug/L	1.2	405 ug/L	1.2	0.29%
QC value within limits for Ti 334.940		Recovery = 101.25%				
Tl 190.801†	774.4	508 ug/L	7.4	508 ug/L	7.4	1.45%
QC value within limits for Tl 190.801		Recovery = 101.65%				
V 292.402†	25981.8	502 ug/L	9.7	502 ug/L	9.7	1.94%
QC value within limits for V 292.402		Recovery = 100.34%				
Zn 206.200†	7847.8	524 ug/L	6.3	524 ug/L	6.3	1.20%
QC value within limits for Zn 206.200		Recovery = 104.81%				
QC Failed.	Continue with analysis.					

Sequence No.: 13

Autosampler Location: 1

Sample ID: CCB

Date Collected: 5/9/2012 12:51:29 PM

Analyst:

Data Type: Reprocessed on 5/9/2012 12:57:49 PM

Logged In Analyst (Original) : inorg

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	254296.7	98.0 %	1.16			1.18%
Sc 361.383	2465218.9	99.8 %	1.56			1.57%
Ag 328.068†	31.9	-0.049 ug/L	0.1737	-0.049 ug/L	0.1737	357.79%
QC value within limits for Ag	328.068	Recovery =	Not calculated			
Al 308.215†	24.6	8.53 ug/L	4.188	8.53 ug/L	4.188	49.10%
QC value within limits for Al	308.215	Recovery =	Not calculated			
As 188.979†	-3.4	-1.73 ug/L	2.116	-1.73 ug/L	2.116	122.21%
QC value within limits for As	188.979	Recovery =	Not calculated			
Ba 233.527†	13.2	-0.022 ug/L	0.0391	-0.022 ug/L	0.0391	176.30%
QC value within limits for Ba	233.527	Recovery =	Not calculated			
Be 234.861†	7.7	0.102 ug/L	0.0132	0.102 ug/L	0.0132	12.96%
QC value within limits for Be	234.861	Recovery =	Not calculated			
Ca 315.887†	136.6	1.21 ug/L	0.686	1.21 ug/L	0.686	56.74%
QC value within limits for Ca	315.887	Recovery =	Not calculated			
Cd 226.502†	-1.2	0.033 ug/L	0.1567	0.033 ug/L	0.1567	481.60%
QC value within limits for Cd	226.502	Recovery =	Not calculated			
Co 228.616†	-0.7	-0.116 ug/L	0.1255	-0.116 ug/L	0.1255	108.08%
QC value within limits for Co	228.616	Recovery =	Not calculated			
Cr 267.716†	3.4	-1.20 ug/L	0.124	-1.20 ug/L	0.124	10.30%
QC value within limits for Cr	267.716	Recovery =	Not calculated			
Cu 324.752†	-18.0	-0.505 ug/L	0.1119	-0.505 ug/L	0.1119	22.15%
QC value within limits for Cu	324.752	Recovery =	Not calculated			
Fe 259.939†	239.2	10.9 ug/L	0.71	10.9 ug/L	0.71	6.53%
QC value within limits for Fe	259.939	Recovery =	Not calculated			
K 766.490†	-28.2	-1.80 ug/L	1.290	-1.80 ug/L	1.290	71.73%
QC value within limits for K	766.490	Recovery =	Not calculated			
Mg 279.077†	179.2	9.90 ug/L	1.362	9.90 ug/L	1.362	13.75%
QC value within limits for Mg	279.077	Recovery =	Not calculated			
Mn 257.610†	-6.6	-0.821 ug/L	0.0514	-0.821 ug/L	0.0514	6.26%
QC value within limits for Mn	257.610	Recovery =	Not calculated			
Mo 202.031†	-0.0	0.102 ug/L	0.6092	0.102 ug/L	0.6092	595.06%
QC value within limits for Mo	202.031	Recovery =	Not calculated			
Na 589.592†	106.3	0.946 ug/L	1.1026	0.946 ug/L	1.1026	116.59%
QC value within limits for Na	589.592	Recovery =	Not calculated			
Ni 231.604†	0.7	-0.429 ug/L	0.5809	-0.429 ug/L	0.5809	135.35%
QC value within limits for Ni	231.604	Recovery =	Not calculated			
Pb 220.353†	2.9	2.01 ug/L	2.985	2.01 ug/L	2.985	148.26%
QC value within limits for Pb	220.353	Recovery =	Not calculated			
Sb 206.836†	-3.4	-2.41 ug/L	0.516	-2.41 ug/L	0.516	21.45%
QC value within limits for Sb	206.836	Recovery =	Not calculated			
Se 196.026†	1.6	6.73 ug/L	3.194	6.73 ug/L	3.194	47.48%
QC value greater than the upper limit for Se	196.026	Recovery =	Not calculated			
Sn 189.927†	2.6	2.58 ug/L	0.553	2.58 ug/L	0.553	21.47%
QC value within limits for Sn	189.927	Recovery =	Not calculated			
Sr 421.552†	33.3	0.009 ug/L	0.0361	0.009 ug/L	0.0361	381.65%
QC value within limits for Sr	421.552	Recovery =	Not calculated			
Ti 334.940†	51.5	0.059 ug/L	0.0271	0.059 ug/L	0.0271	45.63%
QC value within limits for Ti	334.940	Recovery =	Not calculated			
Tl 190.801†	2.7	1.45 ug/L	3.844	1.45 ug/L	3.844	265.74%
QC value within limits for Tl	190.801	Recovery =	Not calculated			
V 292.402†	2.1	-0.165 ug/L	0.4732	-0.165 ug/L	0.4732	287.26%
QC value within limits for V	292.402	Recovery =	Not calculated			
Zn 206.200†	0.4	-1.40 ug/L	0.306	-1.40 ug/L	0.306	21.77%
QC value within limits for Zn	206.200	Recovery =	Not calculated			
QC Failed.	Continue with analysis.					

=====
Analysis Begun

Start Time: 5/9/2012 1:01:14 PM Plasma On Time: 5/9/2012 7:01:25 AM
Logged In Analyst: inorg Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N3112401 Autosampler Model: AS-93plus

Sample Information File: D:\pe\inorg\Sample Information\050912B.sif
Batch ID: 050912B
Results Data Set: 050912B-1
Results Library: d:\pe\inorg\Results\Results.mdb

=====
Sequence No.: 1 Autosampler Location: 6
Sample ID: ICV Date Collected: 5/9/2012 1:01:15 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
User canceled analysis.

=====
Analysis Begun

Start Time: 5/9/2012 1:01:34 PM Plasma On Time: 5/9/2012 7:01:25 AM
Logged In Analyst: inorg Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N3112401 Autosampler Model: AS-93plus

Sample Information File: D:\pe\inorg\Sample Information\050912B.sif
Batch ID: 050912B
Results Data Set: 050912B-1
Results Library: d:\pe\inorg\Results\Results.mdb

=====
Sequence No.: 8 Autosampler Location: 38
Sample ID: 127829MB Date Collected: 5/9/2012 1:01:35 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: 127829MB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	252044.9	97.2 %	2.08			2.14%
Sc 361.383	2447109.0	99.1 %	0.40			0.40%
Ag 328.068†	-2.4	-0.239 ug/L	0.2587	-0.239 ug/L	0.2587	108.15%
Al 308.215†	50.2	18.5 ug/L	1.27	18.5 ug/L	1.27	6.84%
As 188.979†	-4.7	-2.60 ug/L	1.276	-2.60 ug/L	1.276	49.10%
Ba 233.527†	1.0	-0.167 ug/L	0.0592	-0.167 ug/L	0.0592	35.55%
Be 234.861†	-9.8	-0.019 ug/L	0.0276	-0.019 ug/L	0.0276	144.61%
Ca 315.887†	188.1	6.33 ug/L	2.932	6.33 ug/L	2.932	46.29%
Cd 226.502†	-3.0	-0.181 ug/L	0.0661	-0.181 ug/L	0.0661	36.53%
Co 228.616†	-5.5	-0.289 ug/L	0.0325	-0.289 ug/L	0.0325	11.24%
Cr 267.716†	10.9	-1.07 ug/L	0.104	-1.07 ug/L	0.104	9.79%
Cu 324.752†	142.7	0.052 ug/L	0.2297	0.052 ug/L	0.2297	437.75%
Fe 259.939†	87.9	1.59 ug/L	0.899	1.59 ug/L	0.899	56.48%
K 766.490†	-72.6	-10.3 ug/L	22.49	-10.3 ug/L	22.49	217.56%
Mg 279.077†	69.7	2.03 ug/L	2.126	2.03 ug/L	2.126	104.79%
Mn 257.610†	532.3	-0.162 ug/L	0.0257	-0.162 ug/L	0.0257	15.83%
Mo 202.031†	-4.8	-0.856 ug/L	0.3459	-0.856 ug/L	0.3459	40.41%
Na 589.592†	227.6	11.3 ug/L	2.46	11.3 ug/L	2.46	21.79%
Ni 231.604†	-2.7	-0.698 ug/L	0.3352	-0.698 ug/L	0.3352	48.04%
Pb 220.353†	1.0	1.09 ug/L	1.323	1.09 ug/L	1.323	121.58%
Sb 206.836†	1.3	-0.220 ug/L	0.5049	-0.220 ug/L	0.5049	229.69%
Se 196.026†	0.5	5.24 ug/L	1.219	5.24 ug/L	1.219	23.29%
Sn 189.927†	-3.7	-0.142 ug/L	1.2787	-0.142 ug/L	1.2787	900.37%
Sr 421.552†	13.2	-0.017 ug/L	0.0065	-0.017 ug/L	0.0065	37.45%
Ti 334.940†	25.7	0.018 ug/L	0.1091	0.018 ug/L	0.1091	608.29%
Tl 190.801†	1.6	0.727 ug/L	2.5378	0.727 ug/L	2.5378	349.20%
V 292.402†	1.4	-0.177 ug/L	0.5572	-0.177 ug/L	0.5572	314.82%
Zn 206.200†	20.4	-0.066 ug/L	0.0695	-0.066 ug/L	0.0695	104.89%

Sequence No.: 9

Autosampler Location: 39

Sample ID: 127830LCS

Date Collected: 5/9/2012 1:07:44 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: 127830LCS

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	252654.4		97.4 %	0.47			0.48%
Sc 361.383	2417932.6		97.9 %	0.19			0.20%
Ag 328.068†	33938.0		191 ug/L	2.1	191 ug/L	2.1	1.09%
Al 308.215†	94525.0		36800 ug/L	125.7	36800 ug/L	125.7	0.34%
As 188.979†	747.5		499 ug/L	1.8	499 ug/L	1.8	0.36%
Ba 233.527†	121013.5		1440 ug/L	22.2	1440 ug/L	22.2	1.55%
Be 234.861†	71134.5		489 ug/L	5.8	489 ug/L	5.8	1.20%
Ca 315.887†	490422.0		48800 ug/L	192.1	48800 ug/L	192.1	0.39%
Cd 226.502†	4159.2		479 ug/L	2.0	479 ug/L	2.0	0.41%
Co 228.616†	13535.7		484 ug/L	3.8	484 ug/L	3.8	0.79%
Cr 267.716†	27659.4		498 ug/L	3.2	498 ug/L	3.2	0.64%
Cu 324.752†	141882.3		491 ug/L	3.7	491 ug/L	3.7	0.75%
Fe 259.939†	804698.1		49300 ug/L	162.4	49300 ug/L	162.4	0.33%
K 766.490†	261702.3		50300 ug/L	102.7	50300 ug/L	102.7	0.20%
Mg 279.077†	666438.6		47900 ug/L	203.1	47900 ug/L	203.1	0.42%
Mn 257.610†	423555.0		517 ug/L	2.0	517 ug/L	2.0	0.38%
Mo 202.031†	2543.9		508 ug/L	2.7	508 ug/L	2.7	0.52%
Na 589.592†	574889.8		49000 ug/L	64.6	49000 ug/L	64.6	0.13%
Ni 231.604†	6169.0		491 ug/L	3.0	491 ug/L	3.0	0.62%
Pb 220.353†	1017.6		487 ug/L	3.9	487 ug/L	3.9	0.81%
Sb 206.836†	1066.7		488 ug/L	3.3	488 ug/L	3.3	0.68%
Se 196.026†	357.8		490 ug/L	8.1	490 ug/L	8.1	1.65%
Sn 189.927†	1172.3		511 ug/L	4.1	511 ug/L	4.1	0.81%
Sr 421.552†	359806.8		482 ug/L	0.8	482 ug/L	0.8	0.17%
Ti 334.940†	320500.7		518 ug/L	0.8	518 ug/L	0.8	0.15%
Tl 190.801†	747.9		491 ug/L	1.2	491 ug/L	1.2	0.23%
V 292.402†	25674.5		494 ug/L	5.3	494 ug/L	5.3	1.07%
Zn 206.200†	7440.9		496 ug/L	2.8	496 ug/L	2.8	0.56%

Sequence No.: 10
 Sample ID: 127831LCSD
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 40
 Date Collected: 5/9/2012 1:12:56 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 127831LCSD

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	250521.7	96.6 %	0.60			0.62%
Sc 361.383	2369260.0	95.9 %	0.31			0.33%
Ag 328.068†	35288.1	198 ug/L	1.3	198 ug/L	1.3	0.65%
Al 308.215†	97768.7	38000 ug/L	48.2	38000 ug/L	48.2	0.13%
As 188.979†	778.8	520 ug/L	1.7	520 ug/L	1.7	0.33%
Ba 233.527†	128369.9	1520 ug/L	15.4	1520 ug/L	15.4	1.01%
Be 234.861†	76152.9	523 ug/L	5.3	523 ug/L	5.3	1.01%
Ca 315.887†	510347.6	50800 ug/L	43.2	50800 ug/L	43.2	0.09%
Cd 226.502†	4420.1	509 ug/L	3.2	509 ug/L	3.2	0.62%
Co 228.616†	14286.4	511 ug/L	4.0	511 ug/L	4.0	0.79%
Cr 267.716†	29013.9	523 ug/L	4.1	523 ug/L	4.1	0.78%
Cu 324.752†	148645.9	515 ug/L	3.3	515 ug/L	3.3	0.63%
Fe 259.939†	834207.7	51100 ug/L	76.4	51100 ug/L	76.4	0.15%
K 766.490†	270076.8	51900 ug/L	134.3	51900 ug/L	134.3	0.26%
Mg 279.077†	688512.7	49500 ug/L	468.1	49500 ug/L	468.1	0.95%
Mn 257.610†	430860.2	526 ug/L	3.1	526 ug/L	3.1	0.60%
Mo 202.031†	2668.0	532 ug/L	3.1	532 ug/L	3.1	0.59%
Na 589.592†	594528.1	50600 ug/L	142.1	50600 ug/L	142.1	0.28%
Ni 231.604†	6493.2	517 ug/L	1.2	517 ug/L	1.2	0.23%
Pb 220.353†	1074.1	514 ug/L	1.9	514 ug/L	1.9	0.36%
Sb 206.836†	1129.6	516 ug/L	3.1	516 ug/L	3.1	0.61%
Se 196.026†	377.5	517 ug/L	3.3	517 ug/L	3.3	0.64%
Sn 189.927†	1231.3	536 ug/L	3.6	536 ug/L	3.6	0.67%
Sr 421.552†	374604.3	502 ug/L	2.1	502 ug/L	2.1	0.41%
Ti 334.940†	336865.2	544 ug/L	4.0	544 ug/L	4.0	0.74%
Tl 190.801†	780.9	513 ug/L	1.0	513 ug/L	1.0	0.19%
V 292.402†	27129.4	522 ug/L	1.7	522 ug/L	1.7	0.33%
Zn 206.200†	7866.7	525 ug/L	1.2	525 ug/L	1.2	0.22%

Sequence No.: 11
 Sample ID: 350584301
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 41
 Date Collected: 5/9/2012 1:18:08 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584301

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	257087.1		99.1 %	0.31			0.31%
Sc 361.383	2440425.5		98.8 %	1.53			1.55%
Ag 328.068†	-4354.8		-1.33 ug/L	0.658	-1.33 ug/L	0.658	49.64%
Al 308.215†	108070.5		42000 ug/L	227.0	42000 ug/L	227.0	0.54%
As 188.979†	252.0		186 ug/L	1.3	186 ug/L	1.3	0.70%
Ba 233.527†	38384.3		413 ug/L	9.4	413 ug/L	9.4	2.28%
Be 234.861†	1507.9		8.26 ug/L	1.522	8.26 ug/L	1.522	18.43%
Ca 315.887†	1730921.7		172000 ug/L	658.5	172000 ug/L	658.5	0.38%
Cd 226.502†	1046.5		96.4 ug/L	1.23	96.4 ug/L	1.23	1.28%
Co 228.616†	2323.9		70.2 ug/L	1.72	70.2 ug/L	1.72	2.45%
Cr 267.716†	38672.0		700 ug/L	13.3	700 ug/L	13.3	1.90%
Cu 324.752†	29596.4		95.1 ug/L	2.04	95.1 ug/L	2.04	2.15%
Fe 259.939†	5865695.7		359000 ug/L	1539.8	359000 ug/L	1539.8	0.43%
K 766.490†	18455.5		3550 ug/L	57.1	3550 ug/L	57.1	1.61%
Mg 279.077†	798802.0		57500 ug/L	524.5	57500 ug/L	524.5	0.91%
Mn 257.610†	3647470.9		4460 ug/L	35.5	4460 ug/L	35.5	0.80%
Mo 202.031†	10.2		9.68 ug/L	1.724	9.68 ug/L	1.724	17.81%
Na 589.592†	8912.8		751 ug/L	9.3	751 ug/L	9.3	1.23%
Ni 231.604†	1422.3		106 ug/L	2.3	106 ug/L	2.3	2.18%
Pb 220.353†	531.3		239 ug/L	7.0	239 ug/L	7.0	2.93%
Sb 206.836†	36.2		1.12 ug/L	1.897	1.12 ug/L	1.897	168.78%
Se 196.026†	-47.3		-12.4 ug/L	0.61	-12.4 ug/L	0.61	4.96%
Sn 189.927†	12.0		1.17 ug/L	0.614	1.17 ug/L	0.614	52.30%
Sr 421.552†	214148.5		287 ug/L	1.9	287 ug/L	1.9	0.68%
Ti 334.940†	915308.3		1480 ug/L	6.7	1480 ug/L	6.7	0.45%
Tl 190.801†	1.8		6.43 ug/L	3.360	6.43 ug/L	3.360	52.29%
V 292.402†	35976.8		620 ug/L	12.7	620 ug/L	12.7	2.04%
Zn 206.200†	23011.8		1530 ug/L	27.4	1530 ug/L	27.4	1.79%

Sequence No.: 12
 Sample ID: 350584301L
 Analyst:
 Initial Sample Wt:
 Dilution: 5X

Autosampler Location: 42
 Date Collected: 5/9/2012 1:23:28 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584301L

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	255437.0	98.5 %	0.92			0.94%
Sc 361.383	2470897.5	100 %	0.4			0.36%
Ag 328.068†	-899.3	-0.230 ug/L	0.1533	-1.15 ug/L	0.767	66.63%
Al 308.215†	21367.6	8310 ug/L	25.8	41500 ug/L	128.9	0.31%
As 188.979†	54.7	40.8 ug/L	0.32	204 ug/L	1.6	0.77%
Ba 233.527†	7832.9	83.5 ug/L	1.11	418 ug/L	5.6	1.33%
Be 234.861†	354.0	2.02 ug/L	0.186	10.1 ug/L	0.93	9.20%
Ca 315.887†	351467.3	35000 ug/L	69.9	175000 ug/L	349.6	0.20%
Cd 226.502†	217.5	20.0 ug/L	0.35	99.8 ug/L	1.75	1.76%
Co 228.616†	487.0	14.6 ug/L	0.23	73.0 ug/L	1.13	1.55%
Cr 267.716†	7959.1	143 ug/L	0.5	715 ug/L	2.4	0.34%
Cu 324.752†	5748.6	18.0 ug/L	0.30	90.0 ug/L	1.51	1.68%
Fe 259.939†	1268277.7	77600 ug/L	380.5	388000 ug/L	1902.4	0.49%
K 766.490†	3749.9	724 ug/L	16.1	3620 ug/L	80.6	2.22%
Mg 279.077†	169575.6	12200 ug/L	69.2	61000 ug/L	346.0	0.57%
Mn 257.610†	769404.7	940 ug/L	2.5	4700 ug/L	12.6	0.27%
Mo 202.031†	0.1	1.75 ug/L	0.848	8.76 ug/L	4.241	48.43%
Na 589.592†	2011.6	163 ug/L	3.0	816 ug/L	14.8	1.82%
Ni 231.604†	304.2	22.2 ug/L	0.40	111 ug/L	2.0	1.81%
Pb 220.353†	107.5	48.5 ug/L	0.47	242 ug/L	2.3	0.97%
Sb 206.836†	6.9	-0.798 ug/L	1.2690	-3.99 ug/L	6.345	158.98%
Se 196.026†	-16.9	-8.11 ug/L	4.076	-40.5 ug/L	20.38	50.27%
Sn 189.927†	-5.6	-2.46 ug/L	1.023	-12.3 ug/L	5.11	41.61%
Sr 421.552†	43190.3	57.8 ug/L	0.44	289 ug/L	2.2	0.77%
Ti 334.940†	185520.3	300 ug/L	0.4	1500 ug/L	1.8	0.12%
Tl 190.801†	3.1	2.93 ug/L	1.688	14.6 ug/L	8.44	57.69%
V 292.402†	7307.9	125 ug/L	0.4	623 ug/L	2.1	0.35%
Zn 206.200†	4913.5	325 ug/L	4.9	1630 ug/L	24.6	1.51%

Sequence No.: 13
 Sample ID: 350584302
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 43
 Date Collected: 5/9/2012 1:28:46 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584302

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	241483.5	93.1 %	0.43			0.47%
Sc 361.383	2250778.1	91.1 %	0.91			1.00%
Ag 328.068†	31660.2	198 ug/L	0.6	198 ug/L	0.6	0.33%
Al 308.215†	245126.4	95300 ug/L	70.6	95300 ug/L	70.6	0.07%
As 188.979†	997.7	681 ug/L	3.0	681 ug/L	3.0	0.44%
Ba 233.527†	174517.5	2030 ug/L	31.9	2030 ug/L	31.9	1.57%
Be 234.861†	78484.9	537 ug/L	6.8	537 ug/L	6.8	1.27%
Ca 315.887†	9528445.1	949000 ug/L	5441.8	949000 ug/L	5441.8	0.57%
Cd 226.502†	4113.4	452 ug/L	2.7	452 ug/L	2.7	0.60%
Co 228.616†	15411.2	538 ug/L	3.8	538 ug/L	3.8	0.70%
Cr 267.716†	60710.0	1100 ug/L	8.3	1100 ug/L	8.3	0.76%
Cu 324.752†	196684.6	653 ug/L	2.9	653 ug/L	2.9	0.44%
Fe 259.939†	5890010.1	361000 ug/L	2225.8	361000 ug/L	2225.8	0.62%
K 766.490†	317097.4	60900 ug/L	251.5	60900 ug/L	251.5	0.41%
Mg 279.077†	2275167.0	164000 ug/L	1653.9	164000 ug/L	1653.9	1.01%
Mn 257.610†	14945361.2	18300 ug/L	89.3	18300 ug/L	89.3	0.49%
Mo 202.031†	2536.8	513 ug/L	3.5	513 ug/L	3.5	0.69%
Na 589.592†	646567.2	55100 ug/L	151.4	55100 ug/L	151.4	0.27%
Ni 231.604†	7016.3	552 ug/L	3.8	552 ug/L	3.8	0.69%
Pb 220.353†	1453.5	683 ug/L	5.7	683 ug/L	5.7	0.84%
Sb 206.836†	925.7	411 ug/L	3.8	411 ug/L	3.8	0.92%
Se 196.026†	292.8	504 ug/L	3.9	504 ug/L	3.9	0.78%
Sn 189.927†	1065.7	544 ug/L	3.4	544 ug/L	3.4	0.63%
Sr 421.552†	1733047.7	2320 ug/L	14.6	2320 ug/L	14.6	0.63%
Ti 334.940†	1697464.3	2740 ug/L	8.9	2740 ug/L	8.9	0.33%
Tl 190.801†	692.2	461 ug/L	9.6	461 ug/L	9.6	2.08%
V 292.402†	57436.4	1040 ug/L	13.2	1040 ug/L	13.2	1.27%
Zn 206.200†	25916.9	1720 ug/L	9.0	1720 ug/L	9.0	0.52%

Sequence No.: 14
 Sample ID: 350584303
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 44
 Date Collected: 5/9/2012 1:34:14 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584303

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	241749.6	93.2 %	0.14			0.15%
Sc 361.383	2350110.6	95.2 %	2.89			3.03%
Ag 328.068†	30222.6	199 ug/L	4.9	199 ug/L	4.9	2.47%
Al 308.215†	271568.9	106000 ug/L	553.4	106000 ug/L	553.4	0.52%
As 188.979†	795.5	555 ug/L	21.5	555 ug/L	21.5	3.87%
Ba 233.527†	161257.9	1860 ug/L	66.6	1860 ug/L	66.6	3.58%
Be 234.861†	78536.4	537 ug/L	14.9	537 ug/L	14.9	2.77%
Ca 315.887†	2904344.7	289000 ug/L	1632.3	289000 ug/L	1632.3	0.56%
Cd 226.502†	4448.2	481 ug/L	24.4	481 ug/L	24.4	5.08%
Co 228.616†	17005.3	593 ug/L	26.9	593 ug/L	26.9	4.54%
Cr 267.716†	79246.3	1430 ug/L	47.1	1430 ug/L	47.1	3.28%
Cu 324.752†	209404.9	719 ug/L	21.3	719 ug/L	21.3	2.95%
Fe 259.939†	8174351.2	500000 ug/L	4165.4	500000 ug/L	4165.4	0.83%
K 766.490†	313337.2	60200 ug/L	198.7	60200 ug/L	198.7	0.33%
Mg 279.077†	1966004.2	141000 ug/L	107.7	141000 ug/L	107.7	0.08%
Mn 257.610†	3772759.8	4610 ug/L	144.2	4610 ug/L	144.2	3.13%
Mo 202.031†	2301.7	469 ug/L	20.8	469 ug/L	20.8	4.44%
Na 589.592†	649744.2	55300 ug/L	198.7	55300 ug/L	198.7	0.36%
Ni 231.604†	7640.1	599 ug/L	27.2	599 ug/L	27.2	4.53%
Pb 220.353†	1577.5	735 ug/L	34.6	735 ug/L	34.6	4.70%
Sb 206.836†	946.2	412 ug/L	17.0	412 ug/L	17.0	4.13%
Se 196.026†	199.2	339 ug/L	15.5	339 ug/L	15.5	4.58%
Sn 189.927†	1205.1	518 ug/L	26.7	518 ug/L	26.7	5.16%
Sr 421.552†	676969.2	906 ug/L	4.7	906 ug/L	4.7	0.52%
Ti 334.940†	1147162.6	1850 ug/L	53.5	1850 ug/L	53.5	2.89%
Tl 190.801†	725.6	483 ug/L	19.6	483 ug/L	19.6	4.06%
V 292.402†	62618.8	1110 ug/L	38.4	1110 ug/L	38.4	3.46%
Zn 206.200†	30852.7	2050 ug/L	55.9	2050 ug/L	55.9	2.73%

Sequence No.: 15
 Sample ID: 350584301A
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 45
 Date Collected: 5/9/2012 1:39:31 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584301A

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	248135.9	95.7 %	0.56			0.58%
Sc 361.383	2359759.3	95.6 %	0.58			0.60%
Ag 328.068†	32280.8	204 ug/L	0.4	204 ug/L	0.4	0.21%
Al 308.215†	206742.8	80400 ug/L	330.3	80400 ug/L	330.3	0.41%
As 188.979†	1017.6	696 ug/L	4.6	696 ug/L	4.6	0.66%
Ba 233.527†	161411.8	1870 ug/L	16.1	1870 ug/L	16.1	0.86%
Be 234.861†	78359.4	536 ug/L	4.8	536 ug/L	4.8	0.90%
Ca 315.887†	2202061.1	219000 ug/L	591.4	219000 ug/L	591.4	0.27%
Cd 226.502†	5376.9	596 ug/L	5.6	596 ug/L	5.6	0.94%
Co 228.616†	16347.6	572 ug/L	3.8	572 ug/L	3.8	0.66%
Cr 267.716†	66262.6	1200 ug/L	8.4	1200 ug/L	8.4	0.70%
Cu 324.752†	183132.3	628 ug/L	1.0	628 ug/L	1.0	0.15%
Fe 259.939†	6444451.8	394000 ug/L	3088.6	394000 ug/L	3088.6	0.78%
K 766.490†	305028.8	58600 ug/L	333.7	58600 ug/L	333.7	0.57%
Mg 279.077†	1456266.1	105000 ug/L	569.3	105000 ug/L	569.3	0.54%
Mn 257.610†	3948450.9	4830 ug/L	27.4	4830 ug/L	27.4	0.57%
Mo 202.031†	2642.4	534 ug/L	5.3	534 ug/L	5.3	0.99%
Na 589.592†	634240.7	54000 ug/L	291.3	54000 ug/L	291.3	0.54%
Ni 231.604†	7780.4	612 ug/L	6.3	612 ug/L	6.3	1.03%
Pb 220.353†	1577.0	739 ug/L	10.5	739 ug/L	10.5	1.42%
Sb 206.836†	1137.0	506 ug/L	2.1	506 ug/L	2.1	0.41%
Se 196.026†	340.1	512 ug/L	16.5	512 ug/L	16.5	3.23%
Sn 189.927†	1220.1	527 ug/L	4.5	527 ug/L	4.5	0.85%
Sr 421.552†	595381.8	797 ug/L	5.3	797 ug/L	5.3	0.66%
Ti 334.940†	1217217.2	1970 ug/L	3.8	1970 ug/L	3.8	0.20%
Tl 190.801†	757.0	502 ug/L	2.3	502 ug/L	2.3	0.45%
V 292.402†	61636.4	1120 ug/L	6.1	1120 ug/L	6.1	0.55%
Zn 206.200†	29853.4	1990 ug/L	5.6	1990 ug/L	5.6	0.28%

Sequence No.: 16
 Sample ID: 350584304
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 46
 Date Collected: 5/9/2012 1:44:48 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584304

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	252961.4		97.5 %	0.84			0.86%
Sc 361.383	2404745.2		97.4 %	0.28			0.28%
Ag 328.068†	-5694.5		-2.49 ug/L	0.238	-2.49 ug/L	0.238	9.56%
Al 308.215†	134216.1		52200 ug/L	347.4	52200 ug/L	347.4	0.67%
As 188.979†	236.9		181 ug/L	4.6	181 ug/L	4.6	2.53%
Ba 233.527†	62105.0		683 ug/L	7.8	683 ug/L	7.8	1.14%
Be 234.861†	1903.4		10.4 ug/L	1.61	10.4 ug/L	1.61	15.45%
Ca 315.887†	2151911.8		214000 ug/L	1972.0	214000 ug/L	1972.0	0.92%
Cd 226.502†	254.1		-2.32 ug/L	0.149	-2.32 ug/L	0.149	6.40%
Co 228.616†	3345.8		103 ug/L	0.6	103 ug/L	0.6	0.55%
Cr 267.716†	46559.9		843 ug/L	2.1	843 ug/L	2.1	0.25%
Cu 324.752†	68439.3		225 ug/L	0.9	225 ug/L	0.9	0.39%
Fe 259.939†	7459897.1		457000 ug/L	4138.2	457000 ug/L	4138.2	0.91%
K 766.490†	22277.7		4280 ug/L	34.4	4280 ug/L	34.4	0.80%
Mg 279.077†	1221269.8		87900 ug/L	576.8	87900 ug/L	576.8	0.66%
Mn 257.610†	6129510.4		7500 ug/L	32.8	7500 ug/L	32.8	0.44%
Mo 202.031†	84.9		26.6 ug/L	1.22	26.6 ug/L	1.22	4.58%
Na 589.592†	10941.7		924 ug/L	6.8	924 ug/L	6.8	0.73%
Ni 231.604†	1682.2		124 ug/L	0.7	124 ug/L	0.7	0.59%
Pb 220.353†	573.5		254 ug/L	4.1	254 ug/L	4.1	1.61%
Sb 206.836†	43.3		0.814 ug/L	2.6542	0.814 ug/L	2.6542	326.02%
Se 196.026†	-59.8		-17.0 ug/L	1.86	-17.0 ug/L	1.86	10.94%
Sn 189.927†	12.0		-0.755 ug/L	1.6387	-0.755 ug/L	1.6387	217.06%
Sr 421.552†	193965.7		260 ug/L	1.9	260 ug/L	1.9	0.74%
Ti 334.940†	1170289.5		1890 ug/L	10.3	1890 ug/L	10.3	0.54%
Tl 190.801†	3.8		9.96 ug/L	3.716	9.96 ug/L	3.716	37.31%
V 292.402†	32678.2		531 ug/L	1.8	531 ug/L	1.8	0.34%
Zn 206.200†	25390.4		1690 ug/L	6.2	1690 ug/L	6.2	0.37%

Sequence No.: 17
Sample ID: 350584305
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 47
Date Collected: 5/9/2012 1:50:11 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 350584305

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	255813.5		98.6 %	0.99			1.00%
Sc 361.383	2409074.1		97.6 %	0.38			0.39%
Ag 328.068†	-6089.7		-3.04 ug/L	0.703	-3.04 ug/L	0.703	23.09%
Al 308.215†	115466.3		44900 ug/L	354.8	44900 ug/L	354.8	0.79%
As 188.979†	360.4		263 ug/L	4.3	263 ug/L	4.3	1.62%
Ba 233.527†	54393.4		588 ug/L	11.7	588 ug/L	11.7	1.99%
Be 234.861†	1550.1		7.81 ug/L	1.871	7.81 ug/L	1.871	23.95%
Ca 315.887†	2034704.5		203000 ug/L	2344.6	203000 ug/L	2344.6	1.16%
Cd 226.502†	274.2		-1.77 ug/L	0.856	-1.77 ug/L	0.856	48.39%
Co 228.616†	3256.2		99.2 ug/L	0.68	99.2 ug/L	0.68	0.69%
Cr 267.716†	38901.3		705 ug/L	7.2	705 ug/L	7.2	1.02%
Cu 324.752†	100045.0		338 ug/L	4.4	338 ug/L	4.4	1.29%
Fe 259.939†	7875962.3		482000 ug/L	6083.6	482000 ug/L	6083.6	1.26%
K 766.490†	16437.7		3160 ug/L	16.2	3160 ug/L	16.2	0.51%
Mg 279.077†	820903.7		59100 ug/L	784.1	59100 ug/L	784.1	1.33%
Mn 257.610†	4809699.8		5880 ug/L	12.8	5880 ug/L	12.8	0.22%
Mo 202.031†	12.5		12.7 ug/L	1.73	12.7 ug/L	1.73	13.58%
Na 589.592†	19439.6		1650 ug/L	10.4	1650 ug/L	10.4	0.63%
Ni 231.604†	1421.7		103 ug/L	0.9	103 ug/L	0.9	0.87%
Pb 220.353†	619.7		274 ug/L	1.2	274 ug/L	1.2	0.44%
Sb 206.836†	48.4		3.72 ug/L	2.143	3.72 ug/L	2.143	57.57%
Se 196.026†	-59.1		-14.8 ug/L	11.22	-14.8 ug/L	11.22	75.93%
Sn 189.927†	289.7		116 ug/L	0.7	116 ug/L	0.7	0.62%
Sr 421.552†	252213.0		338 ug/L	1.7	338 ug/L	1.7	0.50%
Ti 334.940†	1244404.3		2010 ug/L	5.3	2010 ug/L	5.3	0.27%
Tl 190.801†	4.0		10.4 ug/L	3.34	10.4 ug/L	3.34	32.17%
V 292.402†	38238.3		634 ug/L	12.5	634 ug/L	12.5	1.98%
Zn 206.200†	20414.1		1350 ug/L	6.2	1350 ug/L	6.2	0.46%

Sequence No.: 18
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 5/9/2012 1:55:34 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	253411.4	97.7 %	0.50			0.51%
Sc 361.383	2418653.6	97.9 %	1.02			1.04%
Ag 328.068†	91248.9	507 ug/L	7.1	507 ug/L	7.1	1.39%
QC value	within limits for Ag 328.068 Recovery = 101.39%					
Al 308.215†	48265.9	18800 ug/L	116.2	18800 ug/L	116.2	0.62%
QC value	less than the lower limit for Al 308.215 Recovery = 75.09%					
As 188.979†	770.3	514 ug/L	6.0	514 ug/L	6.0	1.16%
QC value	within limits for As 188.979 Recovery = 102.70%					
Ba 233.527†	42011.5	495 ug/L	3.5	495 ug/L	3.5	0.71%
QC value	within limits for Ba 233.527 Recovery = 99.05%					
Be 234.861†	72624.8	499 ug/L	2.8	499 ug/L	2.8	0.56%
QC value	within limits for Be 234.861 Recovery = 99.81%					
Ca 315.887†	251894.7	25100 ug/L	51.0	25100 ug/L	51.0	0.20%
QC value	within limits for Ca 315.887 Recovery = 100.33%					
Cd 226.502†	4399.5	508 ug/L	2.7	508 ug/L	2.7	0.53%
QC value	within limits for Cd 226.502 Recovery = 101.54%					
Co 228.616†	14382.5	515 ug/L	5.3	515 ug/L	5.3	1.04%
QC value	within limits for Co 228.616 Recovery = 102.91%					
Cr 267.716†	28876.4	520 ug/L	4.7	520 ug/L	4.7	0.91%
QC value	within limits for Cr 267.716 Recovery = 104.00%					
Cu 324.752†	143083.3	495 ug/L	2.7	495 ug/L	2.7	0.55%
QC value	within limits for Cu 324.752 Recovery = 99.08%					
Fe 259.939†	670601.8	41000 ug/L	179.3	41000 ug/L	179.3	0.44%
QC value	within limits for Fe 259.939 Recovery = 102.61%					
K 766.490†	134003.8	25800 ug/L	223.2	25800 ug/L	223.2	0.87%
QC value	within limits for K 766.490 Recovery = 103.02%					
Mg 279.077†	352622.8	25400 ug/L	257.4	25400 ug/L	257.4	1.02%
QC value	within limits for Mg 279.077 Recovery = 101.44%					
Mn 257.610†	426911.5	521 ug/L	3.7	521 ug/L	3.7	0.71%
QC value	within limits for Mn 257.610 Recovery = 104.25%					
Mo 202.031†	2598.3	518 ug/L	5.8	518 ug/L	5.8	1.12%
QC value	within limits for Mo 202.031 Recovery = 103.65%					
Na 589.592†	295124.9	25100 ug/L	160.0	25100 ug/L	160.0	0.64%
QC value	within limits for Na 589.592 Recovery = 100.51%					
Ni 231.604†	6495.4	517 ug/L	8.0	517 ug/L	8.0	1.55%
QC value	within limits for Ni 231.604 Recovery = 103.42%					
Pb 220.353†	1073.3	512 ug/L	6.2	512 ug/L	6.2	1.21%
QC value	within limits for Pb 220.353 Recovery = 102.43%					
Sb 206.836†	1117.4	511 ug/L	11.1	511 ug/L	11.1	2.18%
QC value	within limits for Sb 206.836 Recovery = 102.18%					
Se 196.026†	374.6	510 ug/L	12.1	510 ug/L	12.1	2.37%
QC value	within limits for Se 196.026 Recovery = 102.06%					
Sn 189.927†	942.9	409 ug/L	4.2	409 ug/L	4.2	1.03%
QC value	within limits for Sn 189.927 Recovery = 102.34%					
Sr 421.552†	304535.0	408 ug/L	2.7	408 ug/L	2.7	0.66%
QC value	within limits for Sr 421.552 Recovery = 101.94%					
Ti 334.940†	251136.3	406 ug/L	2.6	406 ug/L	2.6	0.63%
QC value	within limits for Ti 334.940 Recovery = 101.41%					
Tl 190.801†	787.1	517 ug/L	5.6	517 ug/L	5.6	1.07%
QC value	within limits for Tl 190.801 Recovery = 103.33%					
V 292.402†	26104.8	504 ug/L	4.1	504 ug/L	4.1	0.82%
QC value	within limits for V 292.402 Recovery = 100.82%					
Zn 206.200†	7863.7	525 ug/L	6.6	525 ug/L	6.6	1.26%
QC value	within limits for Zn 206.200 Recovery = 105.03%					
QC Failed.	Retry.					

Sequence No.: 19
 Sample ID: CCV
 Analyst:

Autosampler Location: 4
 Date Collected: 5/9/2012 1:58:15 PM
 Data Type: Original

Initial Sample Wt:
Dilution:

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	253937.0	97.9 %	0.29			0.30%
Sc 361.383	2443773.2	99.0 %	0.28			0.29%
Ag 328.068†	90962.7	505 ug/L	2.5	505 ug/L	2.5	0.49%
QC value	within limits for Ag 328.068 Recovery = 101.07%					
Al 308.215†	48004.9	18700 ug/L	72.9	18700 ug/L	72.9	0.39%
QC value	less than the lower limit for Al 308.215 Recovery = 74.69%					
As 188.979†	759.7	507 ug/L	2.4	507 ug/L	2.4	0.47%
QC value	within limits for As 188.979 Recovery = 101.30%					
Ba 233.527†	42324.5	499 ug/L	5.4	499 ug/L	5.4	1.09%
QC value	within limits for Ba 233.527 Recovery = 99.81%					
Be 234.861†	73010.6	502 ug/L	3.3	502 ug/L	3.3	0.67%
QC value	within limits for Be 234.861 Recovery = 100.34%					
Ca 315.887†	250176.6	24900 ug/L	54.0	24900 ug/L	54.0	0.22%
QC value	within limits for Ca 315.887 Recovery = 99.65%					
Cd 226.502†	4371.7	504 ug/L	1.6	504 ug/L	1.6	0.32%
QC value	within limits for Cd 226.502 Recovery = 100.89%					
Co 228.616†	14301.3	512 ug/L	2.3	512 ug/L	2.3	0.45%
QC value	within limits for Co 228.616 Recovery = 102.33%					
Cr 267.716†	28471.6	513 ug/L	1.3	513 ug/L	1.3	0.26%
QC value	within limits for Cr 267.716 Recovery = 102.54%					
Cu 324.752†	142428.7	493 ug/L	0.3	493 ug/L	0.3	0.06%
QC value	within limits for Cu 324.752 Recovery = 98.63%					
Fe 259.939†	666784.1	40800 ug/L	131.1	40800 ug/L	131.1	0.32%
QC value	within limits for Fe 259.939 Recovery = 102.03%					
K 766.490†	133430.9	25600 ug/L	142.3	25600 ug/L	142.3	0.55%
QC value	within limits for K 766.490 Recovery = 102.58%					
Mg 279.077†	353636.6	25400 ug/L	56.8	25400 ug/L	56.8	0.22%
QC value	within limits for Mg 279.077 Recovery = 101.74%					
Mn 257.610†	423616.4	517 ug/L	0.5	517 ug/L	0.5	0.10%
QC value	within limits for Mn 257.610 Recovery = 103.45%					
Mo 202.031†	2561.8	511 ug/L	1.9	511 ug/L	1.9	0.36%
QC value	within limits for Mo 202.031 Recovery = 102.19%					
Na 589.592†	295537.9	25200 ug/L	188.6	25200 ug/L	188.6	0.75%
QC value	within limits for Na 589.592 Recovery = 100.65%					
Ni 231.604†	6465.3	515 ug/L	4.5	515 ug/L	4.5	0.87%
QC value	within limits for Ni 231.604 Recovery = 102.94%					
Pb 220.353†	1062.6	507 ug/L	4.5	507 ug/L	4.5	0.89%
QC value	within limits for Pb 220.353 Recovery = 101.41%					
Sb 206.836†	1101.2	503 ug/L	1.5	503 ug/L	1.5	0.30%
QC value	within limits for Sb 206.836 Recovery = 100.69%					
Se 196.026†	375.8	512 ug/L	1.2	512 ug/L	1.2	0.23%
QC value	within limits for Se 196.026 Recovery = 102.38%					
Sn 189.927†	941.0	409 ug/L	0.9	409 ug/L	0.9	0.22%
QC value	within limits for Sn 189.927 Recovery = 102.13%					
Sr 421.552†	304212.2	407 ug/L	3.5	407 ug/L	3.5	0.87%
QC value	within limits for Sr 421.552 Recovery = 101.83%					
Ti 334.940†	250891.4	405 ug/L	1.1	405 ug/L	1.1	0.26%
QC value	within limits for Ti 334.940 Recovery = 101.32%					
Tl 190.801†	780.3	512 ug/L	3.5	512 ug/L	3.5	0.69%
QC value	within limits for Tl 190.801 Recovery = 102.43%					
V 292.402†	25788.5	498 ug/L	2.7	498 ug/L	2.7	0.55%
QC value	within limits for V 292.402 Recovery = 99.58%					
Zn 206.200†	7841.5	524 ug/L	4.7	524 ug/L	4.7	0.89%
QC value	within limits for Zn 206.200 Recovery = 104.73%					
QC Failed.	Continue with analysis.					

Sequence No.: 20
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 5/9/2012 2:03:32 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

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

Sequence No.: 21
Sample ID: CCB
Analyst:

Autosampler Location: 1
Date Collected: 5/9/2012 2:07:04 PM
Data Type: Original

Initial Sample Wt:
Dilution:

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	261467.3	101 %	1.4			1.41%
Sc 361.383	2502018.8	101 %	1.1			1.12%
Ag 328.068†	39.8	-0.005 ug/L	0.1383	-0.005 ug/L	0.1383	>999.9%
QC value within limits for Ag	328.068	Recovery =	Not calculated			
Al 308.215†	3.1	0.187 ug/L	1.8013	0.187 ug/L	1.8013	964.50%
QC value within limits for Al	308.215	Recovery =	Not calculated			
As 188.979†	0.0	0.517 ug/L	0.8650	0.517 ug/L	0.8650	167.28%
QC value within limits for As	188.979	Recovery =	Not calculated			
Ba 233.527†	12.8	-0.028 ug/L	0.0703	-0.028 ug/L	0.0703	253.97%
QC value within limits for Ba	233.527	Recovery =	Not calculated			
Be 234.861†	3.4	0.072 ug/L	0.0247	0.072 ug/L	0.0247	34.44%
QC value within limits for Be	234.861	Recovery =	Not calculated			
Ca 315.887†	92.1	-3.22 ug/L	0.668	-3.22 ug/L	0.668	20.73%
QC value within limits for Ca	315.887	Recovery =	Not calculated			
Cd 226.502†	-0.4	0.120 ug/L	0.1592	0.120 ug/L	0.1592	132.48%
QC value within limits for Cd	226.502	Recovery =	Not calculated			
Co 228.616†	1.1	-0.053 ug/L	0.1436	-0.053 ug/L	0.1436	270.05%
QC value within limits for Co	228.616	Recovery =	Not calculated			
Cr 267.716†	12.2	-1.04 ug/L	0.079	-1.04 ug/L	0.079	7.56%
QC value within limits for Cr	267.716	Recovery =	Not calculated			
Cu 324.752†	-110.0	-0.825 ug/L	0.2497	-0.825 ug/L	0.2497	30.28%
QC value within limits for Cu	324.752	Recovery =	Not calculated			
Fe 259.939†	246.5	11.3 ug/L	0.83	11.3 ug/L	0.83	7.36%
QC value within limits for Fe	259.939	Recovery =	Not calculated			
K 766.490†	19.8	7.42 ug/L	18.354	7.42 ug/L	18.354	247.26%
QC value within limits for K	766.490	Recovery =	Not calculated			
Mg 279.077†	62.6	1.52 ug/L	1.626	1.52 ug/L	1.626	107.16%
QC value within limits for Mg	279.077	Recovery =	Not calculated			
Mn 257.610†	161.9	-0.615 ug/L	0.0790	-0.615 ug/L	0.0790	12.83%
QC value within limits for Mn	257.610	Recovery =	Not calculated			
Mo 202.031†	0.8	0.271 ug/L	0.3006	0.271 ug/L	0.3006	110.94%
QC value within limits for Mo	202.031	Recovery =	Not calculated			
Na 589.592†	82.2	-1.11 ug/L	0.713	-1.11 ug/L	0.713	64.33%
QC value within limits for Na	589.592	Recovery =	Not calculated			
Ni 231.604†	2.4	-0.286 ug/L	0.0911	-0.286 ug/L	0.0911	31.90%
QC value within limits for Ni	231.604	Recovery =	Not calculated			
Pb 220.353†	0.6	0.920 ug/L	0.8279	0.920 ug/L	0.8279	89.98%
QC value within limits for Pb	220.353	Recovery =	Not calculated			
Sb 206.836†	-3.2	-2.33 ug/L	1.653	-2.33 ug/L	1.653	71.07%
QC value within limits for Sb	206.836	Recovery =	Not calculated			
Se 196.026†	-0.4	4.08 ug/L	2.914	4.08 ug/L	2.914	71.46%
QC value within limits for Se	196.026	Recovery =	Not calculated			
Sn 189.927†	2.0	2.32 ug/L	1.267	2.32 ug/L	1.267	54.68%
QC value within limits for Sn	189.927	Recovery =	Not calculated			
Sr 421.552†	22.0	-0.006 ug/L	0.0152	-0.006 ug/L	0.0152	271.46%
QC value within limits for Sr	421.552	Recovery =	Not calculated			
Ti 334.940†	68.4	0.087 ug/L	0.0711	0.087 ug/L	0.0711	81.86%
QC value within limits for Ti	334.940	Recovery =	Not calculated			
Tl 190.801†	1.3	0.576 ug/L	1.0456	0.576 ug/L	1.0456	181.56%
QC value within limits for Tl	190.801	Recovery =	Not calculated			
V 292.402†	26.8	0.322 ug/L	0.4398	0.322 ug/L	0.4398	136.65%
QC value within limits for V	292.402	Recovery =	Not calculated			
Zn 206.200†	-2.7	-1.61 ug/L	0.109	-1.61 ug/L	0.109	6.77%
QC value within limits for Zn	206.200	Recovery =	Not calculated			

All analyte(s) passed QC.

Sequence No.: 22
 Sample ID: 350584306
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 48
 Date Collected: 5/9/2012 2:13:11 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584306

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	255216.8	98.4 %	0.74			0.75%
Sc 361.383	2386372.7	96.6 %	0.50			0.51%
Ag 328.068†	-7786.1	-5.36 ug/L	1.480	-5.36 ug/L	1.480	27.60%
Al 308.215†	195533.1	76000 ug/L	489.9	76000 ug/L	489.9	0.64%
As 188.979†	391.9	292 ug/L	5.3	292 ug/L	5.3	1.83%
Ba 233.527†	111574.9	1260 ug/L	10.8	1260 ug/L	10.8	0.86%
Be 234.861†	3461.4	20.3 ug/L	1.34	20.3 ug/L	1.34	6.62%
Ca 315.887†	2990133.5	298000 ug/L	668.7	298000 ug/L	668.7	0.22%
Cd 226.502†	352.1	-0.459 ug/L	0.5636	-0.459 ug/L	0.5636	122.76%
Co 228.616†	4396.7	134 ug/L	1.3	134 ug/L	1.3	0.94%
Cr 267.716†	72781.1	1320 ug/L	8.2	1320 ug/L	8.2	0.63%
Cu 324.752†	44428.6	123 ug/L	1.3	123 ug/L	1.3	1.05%
Fe 259.939†	9678964.6	592000 ug/L	5609.4	592000 ug/L	5609.4	0.95%
K 766.490†	42934.9	8250 ug/L	54.0	8250 ug/L	54.0	0.65%
Mg 279.077†	1110663.4	80000 ug/L	1010.1	80000 ug/L	1010.1	1.26%
Mn 257.610†	15667798.4	19200 ug/L	115.2	19200 ug/L	115.2	0.60%
Mo 202.031†	38.2	20.1 ug/L	0.92	20.1 ug/L	0.92	4.58%
Na 589.592†	26966.1	2290 ug/L	7.2	2290 ug/L	7.2	0.31%
Ni 231.604†	1714.4	124 ug/L	2.3	124 ug/L	2.3	1.88%
Pb 220.353†	642.5	283 ug/L	7.7	283 ug/L	7.7	2.72%
Sb 206.836†	76.0	10.7 ug/L	2.22	10.7 ug/L	2.22	20.82%
Se 196.026†	-73.9	-16.8 ug/L	9.84	-16.8 ug/L	9.84	58.68%
Sn 189.927†	-15.9	-7.03 ug/L	1.856	-7.03 ug/L	1.856	26.41%
Sr 421.552†	333129.1	446 ug/L	2.5	446 ug/L	2.5	0.55%
Ti 334.940†	2255240.4	3640 ug/L	9.9	3640 ug/L	9.9	0.27%
Tl 190.801†	17.7	22.4 ug/L	2.19	22.4 ug/L	2.19	9.77%
V 292.402†	59813.3	1030 ug/L	7.6	1030 ug/L	7.6	0.74%
Zn 206.200†	42016.2	2800 ug/L	7.1	2800 ug/L	7.1	0.26%

Sequence No.: 23
 Sample ID: 350584307
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 49
 Date Collected: 5/9/2012 2:18:48 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584307

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	249621.2		96.2 %	0.33			0.34%
Sc 361.383	2414368.2		97.8 %	0.34			0.35%
Ag 328.068†	-3431.8		-1.00 ug/L	0.041	-1.00 ug/L	0.041	4.07%
Al 308.215†	97656.4		38000 ug/L	74.2	38000 ug/L	74.2	0.20%
As 188.979†	166.6		125 ug/L	1.4	125 ug/L	1.4	1.14%
Ba 233.527†	39916.6		440 ug/L	3.0	440 ug/L	3.0	0.69%
Be 234.861†	1354.4		7.65 ug/L	0.995	7.65 ug/L	0.995	13.00%
Ca 315.887†	2180259.4		217000 ug/L	824.3	217000 ug/L	824.3	0.38%
Cd 226.502†	149.3		-2.42 ug/L	0.451	-2.42 ug/L	0.451	18.63%
Co 228.616†	2131.6		65.3 ug/L	0.51	65.3 ug/L	0.51	0.78%
Cr 267.716†	26421.2		478 ug/L	3.0	478 ug/L	3.0	0.62%
Cu 324.752†	19188.9		57.0 ug/L	0.74	57.0 ug/L	0.74	1.30%
Fe 259.939†	4646019.5		284000 ug/L	1178.1	284000 ug/L	1178.1	0.41%
K 766.490†	18724.2		3600 ug/L	22.5	3600 ug/L	22.5	0.62%
Mg 279.077†	958862.1		69000 ug/L	304.7	69000 ug/L	304.7	0.44%
Mn 257.610†	4649299.7		5690 ug/L	31.0	5690 ug/L	31.0	0.54%
Mo 202.031†	1.6		6.40 ug/L	0.356	6.40 ug/L	0.356	5.57%
Na 589.592†	11630.2		982 ug/L	1.5	982 ug/L	1.5	0.15%
Ni 231.604†	976.9		71.6 ug/L	0.63	71.6 ug/L	0.63	0.88%
Pb 220.353†	313.0		138 ug/L	4.2	138 ug/L	4.2	3.01%
Sb 206.836†	24.2		-0.005 ug/L	2.8685	-0.005 ug/L	2.8685	>999.9%
Se 196.026†	-38.4		-3.65 ug/L	1.672	-3.65 ug/L	1.672	45.78%
Sn 189.927†	-13.7		1.69 ug/L	1.053	1.69 ug/L	1.053	62.21%
Sr 421.552†	236396.8		317 ug/L	0.5	317 ug/L	0.5	0.15%
Ti 334.940†	975208.8		1580 ug/L	3.8	1580 ug/L	3.8	0.24%
Tl 190.801†	2.7		6.67 ug/L	4.250	6.67 ug/L	4.250	63.73%
V 292.402†	25117.2		424 ug/L	6.6	424 ug/L	6.6	1.55%
Zn 206.200†	14694.3		974 ug/L	8.6	974 ug/L	8.6	0.88%

Sequence No.: 24
 Sample ID: 350584308
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 50
 Date Collected: 5/9/2012 2:24:13 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584308

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	247661.9		95.5 %	1.06			1.11%
Sc 361.383	2376797.8		96.3 %	0.89			0.93%
Ag 328.068†	-2950.7		4.34 ug/L	0.981	4.34 ug/L	0.981	22.62%
Al 308.215†	95789.6		37300 ug/L	319.9	37300 ug/L	319.9	0.86%
As 188.979†	234.4		173 ug/L	1.9	173 ug/L	1.9	1.11%
Ba 233.527†	51021.7		567 ug/L	10.7	567 ug/L	10.7	1.88%
Be 234.861†	1426.8		7.90 ug/L	1.936	7.90 ug/L	1.936	24.50%
Ca 315.887†	1933621.9		193000 ug/L	2436.8	193000 ug/L	2436.8	1.27%
Cd 226.502†	177.4		-2.09 ug/L	0.505	-2.09 ug/L	0.505	24.20%
Co 228.616†	4127.7		136 ug/L	1.3	136 ug/L	1.3	0.96%
Cr 267.716†	36147.7		654 ug/L	8.6	654 ug/L	8.6	1.32%
Cu 324.752†	1971649.2		6840 ug/L	47.1	6840 ug/L	47.1	0.69%
Fe 259.939†	5329128.0		326000 ug/L	3944.6	326000 ug/L	3944.6	1.21%
K 766.490†	15822.6		3040 ug/L	14.9	3040 ug/L	14.9	0.49%
Mg 279.077†	1006821.4		72500 ug/L	1196.2	72500 ug/L	1196.2	1.65%
Mn 257.610†	7429214.5		9080 ug/L	76.6	9080 ug/L	76.6	0.84%
Mo 202.031†	14.2		9.79 ug/L	0.852	9.79 ug/L	0.852	8.70%
Na 589.592†	10174.8		858 ug/L	4.0	858 ug/L	4.0	0.46%
Ni 231.604†	2510.1		193 ug/L	2.1	193 ug/L	2.1	1.10%
Pb 220.353†	714.3		318 ug/L	3.1	318 ug/L	3.1	0.98%
Sb 206.836†	56.1		11.8 ug/L	2.61	11.8 ug/L	2.61	22.16%
Se 196.026†	-45.2		-10.9 ug/L	4.31	-10.9 ug/L	4.31	39.56%
Sn 189.927†	697.4		302 ug/L	2.8	302 ug/L	2.8	0.94%
Sr 421.552†	192563.8		258 ug/L	1.8	258 ug/L	1.8	0.70%
Ti 334.940†	923509.7		1490 ug/L	9.3	1490 ug/L	9.3	0.63%
Tl 190.801†	7.7		9.99 ug/L	3.934	9.99 ug/L	3.934	39.39%
V 292.402†	27152.6		454 ug/L	7.6	454 ug/L	7.6	1.68%
Zn 206.200†	22113.0		1470 ug/L	12.5	1470 ug/L	12.5	0.85%

Sequence No.: 25
 Sample ID: 350584309
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 51
 Date Collected: 5/9/2012 2:29:38 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584309

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	254219.9		98.0 %	1.01			1.03%
Sc 361.383	2427029.7		98.3 %	1.40			1.43%
Ag 328.068†	-4014.1		-0.953 ug/L	0.6772	-0.953 ug/L	0.6772	71.02%
Al 308.215†	101964.0		39700 ug/L	98.4	39700 ug/L	98.4	0.25%
As 188.979†	176.8		134 ug/L	3.1	134 ug/L	3.1	2.33%
Ba 233.527†	41237.5		450 ug/L	5.4	450 ug/L	5.4	1.19%
Be 234.861†	1483.5		8.23 ug/L	1.621	8.23 ug/L	1.621	19.68%
Ca 315.887†	1774490.0		177000 ug/L	1461.4	177000 ug/L	1461.4	0.83%
Cd 226.502†	186.2		-1.72 ug/L	0.616	-1.72 ug/L	0.616	35.90%
Co 228.616†	3074.2		98.3 ug/L	1.96	98.3 ug/L	1.96	1.99%
Cr 267.716†	26692.2		483 ug/L	3.1	483 ug/L	3.1	0.65%
Cu 324.752†	117973.8		396 ug/L	2.9	396 ug/L	2.9	0.74%
Fe 259.939†	5480013.7		335000 ug/L	3442.7	335000 ug/L	3442.7	1.03%
K 766.490†	16298.9		3140 ug/L	6.7	3140 ug/L	6.7	0.21%
Mg 279.077†	955362.1		68800 ug/L	1208.9	68800 ug/L	1208.9	1.76%
Mn 257.610†	6656448.6		8140 ug/L	64.0	8140 ug/L	64.0	0.79%
Mo 202.031†	15.6		10.2 ug/L	0.49	10.2 ug/L	0.49	4.75%
Na 589.592†	8366.6		704 ug/L	5.4	704 ug/L	5.4	0.77%
Ni 231.604†	1427.4		106 ug/L	1.7	106 ug/L	1.7	1.61%
Pb 220.353†	745.7		341 ug/L	7.0	341 ug/L	7.0	2.06%
Sb 206.836†	34.3		2.45 ug/L	1.991	2.45 ug/L	1.991	81.39%
Se 196.026†	-45.9		-12.4 ug/L	11.17	-12.4 ug/L	11.17	90.10%
Sn 189.927†	284.6		120 ug/L	3.2	120 ug/L	3.2	2.66%
Sr 421.552†	158268.6		212 ug/L	0.5	212 ug/L	0.5	0.23%
Ti 334.940†	777802.4		1260 ug/L	3.4	1260 ug/L	3.4	0.27%
Tl 190.801†	9.2		10.9 ug/L	4.72	10.9 ug/L	4.72	43.40%
V 292.402†	28386.8		476 ug/L	4.1	476 ug/L	4.1	0.87%
Zn 206.200†	23098.0		1530 ug/L	14.1	1530 ug/L	14.1	0.92%

Sequence No.: 26
 Sample ID: 350584310
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 52
 Date Collected: 5/9/2012 2:35:01 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584310

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	253419.3		97.7 %	0.81			0.83%
Sc 361.383	2402581.3		97.3 %	0.60			0.61%
Ag 328.068†	-5207.7		-2.03 ug/L	1.029	-2.03 ug/L	1.029	50.73%
Al 308.215†	97861.4		38100 ug/L	394.0	38100 ug/L	394.0	1.04%
As 188.979†	229.2		174 ug/L	4.7	174 ug/L	4.7	2.71%
Ba 233.527†	35616.2		372 ug/L	3.9	372 ug/L	3.9	1.06%
Be 234.861†	1618.5		8.64 ug/L	1.430	8.64 ug/L	1.430	16.54%
Ca 315.887†	1726603.1		172000 ug/L	2041.5	172000 ug/L	2041.5	1.19%
Cd 226.502†	245.4		-0.889 ug/L	0.7823	-0.889 ug/L	0.7823	88.03%
Co 228.616†	2991.2		92.4 ug/L	0.29	92.4 ug/L	0.29	0.31%
Cr 267.716†	35707.7		647 ug/L	4.2	647 ug/L	4.2	0.66%
Cu 324.752†	60269.3		192 ug/L	1.9	192 ug/L	1.9	0.99%
Fe 259.939†	6890488.0		422000 ug/L	5272.8	422000 ug/L	5272.8	1.25%
K 766.490†	9887.4		1900 ug/L	8.4	1900 ug/L	8.4	0.44%
Mg 279.077†	910984.3		65600 ug/L	583.8	65600 ug/L	583.8	0.89%
Mn 257.610†	8642507.8		10600 ug/L	52.8	10600 ug/L	52.8	0.50%
Mo 202.031†	14.6		11.9 ug/L	0.55	11.9 ug/L	0.55	4.63%
Na 589.592†	7769.0		654 ug/L	10.9	654 ug/L	10.9	1.66%
Ni 231.604†	1148.6		82.4 ug/L	0.21	82.4 ug/L	0.21	0.25%
Pb 220.353†	503.3		221 ug/L	0.6	221 ug/L	0.6	0.28%
Sb 206.836†	42.9		2.69 ug/L	1.444	2.69 ug/L	1.444	53.79%
Se 196.026†	-54.2		-16.1 ug/L	9.50	-16.1 ug/L	9.50	59.10%
Sn 189.927†	-8.8		-13.3 ug/L	0.63	-13.3 ug/L	0.63	4.74%
Sr 421.552†	123545.5		165 ug/L	1.5	165 ug/L	1.5	0.90%
Ti 334.940†	911496.9		1470 ug/L	3.4	1470 ug/L	3.4	0.23%
Tl 190.801†	15.4		16.3 ug/L	5.40	16.3 ug/L	5.40	33.20%
V 292.402†	35956.6		604 ug/L	10.4	604 ug/L	10.4	1.72%
Zn 206.200†	22862.2		1520 ug/L	10.1	1520 ug/L	10.1	0.67%

Sequence No.: 27
 Sample ID: 350584311
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 53
 Date Collected: 5/9/2012 2:40:24 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584311

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	250192.5		96.5 %	0.31			0.32%
Sc 361.383	2367341.7		95.9 %	1.24			1.29%
Ag 328.068†	-5245.7		-2.77 ug/L	0.495	-2.77 ug/L	0.495	17.89%
Al 308.215†	146715.4		57100 ug/L	176.0	57100 ug/L	176.0	0.31%
As 188.979†	207.8		160 ug/L	4.5	160 ug/L	4.5	2.80%
Ba 233.527†	74154.8		832 ug/L	20.3	832 ug/L	20.3	2.44%
Be 234.861†	1923.3		10.8 ug/L	1.74	10.8 ug/L	1.74	16.10%
Ca 315.887†	3090499.1		308000 ug/L	1784.2	308000 ug/L	1784.2	0.58%
Cd 226.502†	430.9		21.2 ug/L	0.59	21.2 ug/L	0.59	2.79%
Co 228.616†	3183.1		96.6 ug/L	1.42	96.6 ug/L	1.42	1.47%
Cr 267.716†	44945.2		813 ug/L	10.3	813 ug/L	10.3	1.27%
Cu 324.752†	44971.1		139 ug/L	1.8	139 ug/L	1.8	1.31%
Fe 259.939†	6755610.5		414000 ug/L	2489.7	414000 ug/L	2489.7	0.60%
K 766.490†	19150.1		3680 ug/L	16.0	3680 ug/L	16.0	0.43%
Mg 279.077†	1689670.3		122000 ug/L	1329.2	122000 ug/L	1329.2	1.09%
Mn 257.610†	8418230.8		10300 ug/L	233.1	10300 ug/L	233.1	2.26%
Mo 202.031†	202.6		49.1 ug/L	1.20	49.1 ug/L	1.20	2.44%
Na 589.592†	34690.9		2950 ug/L	13.0	2950 ug/L	13.0	0.44%
Ni 231.604†	2757.7		211 ug/L	3.0	211 ug/L	3.0	1.43%
Pb 220.353†	520.6		233 ug/L	5.5	233 ug/L	5.5	2.38%
Sb 206.836†	37.0		1.56 ug/L	2.046	1.56 ug/L	2.046	131.16%
Se 196.026†	-55.1		-7.04 ug/L	9.066	-7.04 ug/L	9.066	128.74%
Sn 189.927†	-23.3		3.21 ug/L	1.952	3.21 ug/L	1.952	60.86%
Sr 421.552†	415169.5		556 ug/L	2.1	556 ug/L	2.1	0.37%
Ti 334.940†	1880020.2		3040 ug/L	66.1	3040 ug/L	66.1	2.18%
Tl 190.801†	6.1		12.5 ug/L	2.45	12.5 ug/L	2.45	19.55%
V 292.402†	36663.9		620 ug/L	6.9	620 ug/L	6.9	1.12%
Zn 206.200†	27201.7		1810 ug/L	30.1	1810 ug/L	30.1	1.66%

Sequence No.: 28
 Sample ID: 350584312
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 54
 Date Collected: 5/9/2012 2:45:47 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584312

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	255283.0		98.4 %	0.35			0.35%
Sc 361.383	2419134.0		98.0 %	0.78			0.79%
Ag 328.068†	-3612.7		-1.26 ug/L	0.708	-1.26 ug/L	0.708	56.37%
Al 308.215†	98443.5		38300 ug/L	132.0	38300 ug/L	132.0	0.34%
As 188.979†	190.4		143 ug/L	2.8	143 ug/L	2.8	1.95%
Ba 233.527†	59980.1		678 ug/L	6.0	678 ug/L	6.0	0.88%
Be 234.861†	1174.0		6.34 ug/L	1.631	6.34 ug/L	1.631	25.71%
Ca 315.887†	2420287.0		241000 ug/L	2426.3	241000 ug/L	2426.3	1.01%
Cd 226.502†	173.2		-0.456 ug/L	0.4308	-0.456 ug/L	0.4308	94.37%
Co 228.616†	3856.2		127 ug/L	0.5	127 ug/L	0.5	0.39%
Cr 267.716†	37704.7		681 ug/L	7.4	681 ug/L	7.4	1.09%
Cu 324.752†	45198.4		143 ug/L	1.5	143 ug/L	1.5	1.08%
Fe 259.939†	4836387.6		296000 ug/L	2757.2	296000 ug/L	2757.2	0.93%
K 766.490†	15674.7		3020 ug/L	24.9	3020 ug/L	24.9	0.83%
Mg 279.077†	1495175.0		108000 ug/L	505.2	108000 ug/L	505.2	0.47%
Mn 257.610†	6693112.6		8180 ug/L	29.3	8180 ug/L	29.3	0.36%
Mo 202.031†	24.7		11.2 ug/L	0.13	11.2 ug/L	0.13	1.11%
Na 589.592†	13792.0		1170 ug/L	5.1	1170 ug/L	5.1	0.44%
Ni 231.604†	2259.7		174 ug/L	0.2	174 ug/L	0.2	0.12%
Pb 220.353†	1119.9		523 ug/L	4.5	523 ug/L	4.5	0.86%
Sb 206.836†	136.1		50.0 ug/L	1.65	50.0 ug/L	1.65	3.31%
Se 196.026†	-43.1		-6.91 ug/L	8.844	-6.91 ug/L	8.844	128.08%
Sn 189.927†	737.5		328 ug/L	3.4	328 ug/L	3.4	1.02%
Sr 421.552†	254273.6		340 ug/L	0.6	340 ug/L	0.6	0.16%
Ti 334.940†	1097618.5		1770 ug/L	7.5	1770 ug/L	7.5	0.42%
Tl 190.801†	12.9		13.6 ug/L	1.09	13.6 ug/L	1.09	8.01%
V 292.402†	24731.7		414 ug/L	7.4	414 ug/L	7.4	1.79%
Zn 206.200†	22107.9		1470 ug/L	19.7	1470 ug/L	19.7	1.34%

Sequence No.: 29
 Sample ID: 350584301
 Analyst:
 Initial Sample Wt:
 Dilution: 5X

Autosampler Location: 55
 Date Collected: 5/9/2012 2:51:10 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584301

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	256422.9		98.9 %	1.06			1.07%
Sc 361.383	2464961.7		99.8 %	0.88			0.88%
Ag 328.068†	-889.4		-0.114 ug/L	0.1932	-0.572 ug/L	0.9661	168.81%
Al 308.215†	21794.6		8480 ug/L	104.5	42400 ug/L	522.4	1.23%
As 188.979†	56.1		41.7 ug/L	0.55	209 ug/L	2.8	1.33%
Ba 233.527†	7921.3		84.5 ug/L	0.90	422 ug/L	4.5	1.06%
Be 234.861†	282.6		1.52 ug/L	0.238	7.60 ug/L	1.192	15.69%
Ca 315.887†	354236.2		35300 ug/L	627.0	176000 ug/L	3135.0	1.78%
Cd 226.502†	220.1		20.2 ug/L	0.14	101 ug/L	0.7	0.70%
Co 228.616†	489.7		14.7 ug/L	0.11	73.3 ug/L	0.54	0.73%
Cr 267.716†	8169.2		147 ug/L	1.4	734 ug/L	7.2	0.98%
Cu 324.752†	5708.2		17.8 ug/L	0.37	89.1 ug/L	1.84	2.06%
Fe 259.939†	1283817.8		78600 ug/L	1222.2	393000 ug/L	6110.8	1.56%
K 766.490†	3789.2		732 ug/L	31.4	3660 ug/L	156.8	4.29%
Mg 279.077†	169894.1		12200 ug/L	49.4	61100 ug/L	247.0	0.40%
Mn 257.610†	782810.1		956 ug/L	8.8	4780 ug/L	43.8	0.92%
Mo 202.031†	0.6		1.87 ug/L	0.677	9.35 ug/L	3.383	36.17%
Na 589.592†	2023.6		164 ug/L	3.1	821 ug/L	15.7	1.92%
Ni 231.604†	301.7		22.0 ug/L	0.37	110 ug/L	1.8	1.67%
Pb 220.353†	114.8		51.9 ug/L	0.44	259 ug/L	2.2	0.86%
Sb 206.836†	4.9		-1.81 ug/L	4.765	-9.03 ug/L	23.827	263.73%
Se 196.026†	-11.1		-0.303 ug/L	4.5943	-1.51 ug/L	22.971	>999.9%
Sn 189.927†	-5.6		-2.52 ug/L	0.303	-12.6 ug/L	1.52	12.04%
Sr 421.552†	43700.2		58.5 ug/L	0.80	292 ug/L	4.0	1.37%
Ti 334.940†	188735.5		305 ug/L	0.5	1520 ug/L	2.6	0.17%
Tl 190.801†	-0.5		0.593 ug/L	1.3942	2.96 ug/L	6.971	235.12%
V 292.402†	7409.7		126 ug/L	1.4	632 ug/L	7.2	1.14%
Zn 206.200†	4943.5		327 ug/L	4.7	1640 ug/L	23.7	1.45%

Sequence No.: 30
 Sample ID: 350584301L
 Analyst:
 Initial Sample Wt:
 Dilution: 25X

Autosampler Location: 56
 Date Collected: 5/9/2012 2:56:29 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584301L

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	254295.0		98.0 %	1.00			1.02%
Sc 361.383	2489937.1		101 %	1.0			1.01%
Ag 328.068†	-178.7		-0.184 ug/L	0.2446	-4.60 ug/L	6.116	132.87%
Al 308.215†	4427.6		1720 ug/L	36.7	43000 ug/L	916.8	2.13%
As 188.979†	10.6		8.35 ug/L	0.816	209 ug/L	20.4	9.77%
Ba 233.527†	1606.0		17.0 ug/L	0.08	424 ug/L	2.1	0.49%
Be 234.861†	47.5		0.279 ug/L	0.0217	6.96 ug/L	0.542	7.78%
Ca 315.887†	71336.0		7090 ug/L	21.5	177000 ug/L	537.2	0.30%
Cd 226.502†	43.1		4.05 ug/L	0.256	101 ug/L	6.4	6.33%
Co 228.616†	94.5		2.72 ug/L	0.064	68.1 ug/L	1.60	2.34%
Cr 267.716†	1657.6		28.8 ug/L	0.45	720 ug/L	11.3	1.57%
Cu 324.752†	1099.3		3.06 ug/L	0.052	76.5 ug/L	1.29	1.69%
Fe 259.939†	262876.2		16100 ug/L	41.5	402000 ug/L	1038.7	0.26%
K 766.490†	668.0		132 ug/L	35.4	3300 ug/L	886.2	26.86%
Mg 279.077†	35207.8		2530 ug/L	45.9	63300 ug/L	1147.5	1.81%
Mn 257.610†	159166.8		194 ug/L	0.7	4850 ug/L	16.4	0.34%
Mo 202.031†	-1.8		0.095 ug/L	0.7060	2.37 ug/L	17.651	745.15%
Na 589.592†	760.0		56.6 ug/L	6.18	1420 ug/L	154.6	10.92%
Ni 231.604†	61.4		4.09 ug/L	0.133	102 ug/L	3.3	3.26%
Pb 220.353†	24.8		11.7 ug/L	1.29	293 ug/L	32.3	11.01%
Sb 206.836†	-2.0		-2.41 ug/L	1.405	-60.3 ug/L	35.12	58.20%
Se 196.026†	-6.0		-1.39 ug/L	4.784	-34.7 ug/L	119.59	345.03%
Sn 189.927†	-4.2		-0.690 ug/L	0.6189	-17.2 ug/L	15.47	89.75%
Sr 421.552†	8843.2		11.8 ug/L	0.20	295 ug/L	5.1	1.72%
Ti 334.940†	37541.1		60.6 ug/L	0.46	1520 ug/L	11.5	0.76%
Tl 190.801†	1.7		1.08 ug/L	1.538	26.9 ug/L	38.46	142.73%
V 292.402†	1478.5		24.9 ug/L	0.24	624 ug/L	5.9	0.95%
Zn 206.200†	1025.7		66.8 ug/L	0.60	1670 ug/L	15.0	0.90%

Sequence No.: 31
 Sample ID: 350584302
 Analyst:
 Initial Sample Wt:
 Dilution: 5X

Autosampler Location: 57
 Date Collected: 5/9/2012 3:01:46 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584302

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	257320.6	99.2 %	0.61			0.62%
Sc 361.383	2434910.7	98.6 %	0.24			0.24%
Ag 328.068†	6014.8	38.0 ug/L	0.58	190 ug/L	2.9	1.52%
Al 308.215†	46508.8	18100 ug/L	56.2	90400 ug/L	281.1	0.31%
As 188.979†	209.5	143 ug/L	1.5	717 ug/L	7.4	1.03%
Ba 233.527†	35327.8	411 ug/L	5.6	2060 ug/L	27.9	1.36%
Be 234.861†	15029.7	103 ug/L	2.3	515 ug/L	11.3	2.20%
Ca 315.887†	1926128.0	192000 ug/L	2313.2	959000 ug/L	11565.8	1.21%
Cd 226.502†	863.3	94.9 ug/L	0.90	475 ug/L	4.5	0.95%
Co 228.616†	3261.9	114 ug/L	0.6	569 ug/L	2.9	0.52%
Cr 267.716†	12595.3	227 ug/L	2.2	1130 ug/L	11.0	0.97%
Cu 324.752†	37018.3	122 ug/L	1.5	608 ug/L	7.7	1.27%
Fe 259.939†	1255684.5	76900 ug/L	864.6	384000 ug/L	4322.9	1.12%
K 766.490†	58812.4	11300 ug/L	74.2	56500 ug/L	371.2	0.66%
Mg 279.077†	475609.8	34200 ug/L	272.9	171000 ug/L	1364.3	0.80%
Mn 257.610†	3274779.4	4000 ug/L	1.6	20000 ug/L	8.1	0.04%
Mo 202.031†	520.1	105 ug/L	0.7	526 ug/L	3.3	0.64%
Na 589.592†	122266.3	10400 ug/L	55.1	52000 ug/L	275.3	0.53%
Ni 231.604†	1494.4	117 ug/L	0.7	586 ug/L	3.4	0.58%
Pb 220.353†	309.5	146 ug/L	2.7	729 ug/L	13.4	1.84%
Sb 206.836†	181.0	79.5 ug/L	3.51	397 ug/L	17.5	4.41%
Se 196.026†	49.2	92.7 ug/L	14.83	464 ug/L	74.2	15.99%
Sn 189.927†	210.3	108 ug/L	2.1	542 ug/L	10.3	1.90%
Sr 421.552†	343937.9	461 ug/L	4.6	2300 ug/L	23.2	1.01%
Ti 334.940†	336668.7	544 ug/L	2.8	2720 ug/L	13.9	0.51%
Tl 190.801†	150.9	100 ug/L	1.7	501 ug/L	8.3	1.65%
V 292.402†	11448.0	206 ug/L	1.9	1030 ug/L	9.3	0.90%
Zn 206.200†	5585.4	371 ug/L	2.2	1850 ug/L	10.8	0.58%

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Sequence No.: 32                               Autosampler Location: 4
Sample ID: CCV                                 Date Collected: 5/9/2012 3:07:06 PM
Analyst:                                       Data Type: Original
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
=====
    
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Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	256549.5	98.9 %	0.69			0.70%
Sc 361.383	2451079.5	99.3 %	0.30			0.30%
Ag 328.068†	90594.1	503 ug/L	4.1	503 ug/L	4.1	0.81%
QC value	within limits for Ag 328.068 Recovery = 100.66%					
Al 308.215†	47371.6	18400 ug/L	140.9	18400 ug/L	140.9	0.76%
QC value	less than the lower limit for Al 308.215 Recovery = 73.70%					
As 188.979†	759.1	506 ug/L	1.2	506 ug/L	1.2	0.23%
QC value	within limits for As 188.979 Recovery = 101.21%					
Ba 233.527†	41926.9	494 ug/L	3.5	494 ug/L	3.5	0.70%
QC value	within limits for Ba 233.527 Recovery = 98.87%					
Be 234.861†	72207.8	496 ug/L	5.0	496 ug/L	5.0	1.01%
QC value	within limits for Be 234.861 Recovery = 99.24%					
Ca 315.887†	246666.0	24600 ug/L	62.9	24600 ug/L	62.9	0.26%
QC value	within limits for Ca 315.887 Recovery = 98.25%					
Cd 226.502†	4346.8	502 ug/L	5.0	502 ug/L	5.0	1.00%
QC value	within limits for Cd 226.502 Recovery = 100.32%					
Co 228.616†	14236.2	509 ug/L	2.3	509 ug/L	2.3	0.45%
QC value	within limits for Co 228.616 Recovery = 101.86%					
Cr 267.716†	28365.8	511 ug/L	1.9	511 ug/L	1.9	0.37%
QC value	within limits for Cr 267.716 Recovery = 102.15%					
Cu 324.752†	141088.8	488 ug/L	2.2	488 ug/L	2.2	0.45%
QC value	within limits for Cu 324.752 Recovery = 97.70%					
Fe 259.939†	659337.4	40400 ug/L	223.8	40400 ug/L	223.8	0.55%
QC value	within limits for Fe 259.939 Recovery = 100.89%					
K 766.490†	132428.7	25500 ug/L	149.4	25500 ug/L	149.4	0.59%
QC value	within limits for K 766.490 Recovery = 101.81%					
Mg 279.077†	347895.7	25000 ug/L	118.5	25000 ug/L	118.5	0.47%
QC value	within limits for Mg 279.077 Recovery = 100.08%					
Mn 257.610†	419300.1	512 ug/L	2.0	512 ug/L	2.0	0.39%
QC value	within limits for Mn 257.610 Recovery = 102.39%					
Mo 202.031†	2557.5	510 ug/L	4.1	510 ug/L	4.1	0.80%
QC value	within limits for Mo 202.031 Recovery = 102.02%					
Na 589.592†	291809.1	24800 ug/L	159.5	24800 ug/L	159.5	0.64%
QC value	within limits for Na 589.592 Recovery = 99.38%					
Ni 231.604†	6465.0	515 ug/L	3.7	515 ug/L	3.7	0.73%
QC value	within limits for Ni 231.604 Recovery = 102.94%					
Pb 220.353†	1054.9	503 ug/L	4.0	503 ug/L	4.0	0.80%
QC value	within limits for Pb 220.353 Recovery = 100.68%					
Sb 206.836†	1091.7	499 ug/L	4.4	499 ug/L	4.4	0.88%
QC value	within limits for Sb 206.836 Recovery = 99.82%					
Se 196.026†	368.3	502 ug/L	7.6	502 ug/L	7.6	1.51%
QC value	within limits for Se 196.026 Recovery = 100.35%					
Sn 189.927†	937.5	407 ug/L	2.1	407 ug/L	2.1	0.51%
QC value	within limits for Sn 189.927 Recovery = 101.76%					
Sr 421.552†	301475.7	404 ug/L	4.9	404 ug/L	4.9	1.20%
QC value	within limits for Sr 421.552 Recovery = 100.91%					
Ti 334.940†	248492.1	401 ug/L	0.8	401 ug/L	0.8	0.20%
QC value	within limits for Ti 334.940 Recovery = 100.35%					
Tl 190.801†	778.8	511 ug/L	3.7	511 ug/L	3.7	0.72%
QC value	within limits for Tl 190.801 Recovery = 102.24%					
V 292.402†	25713.9	497 ug/L	0.8	497 ug/L	0.8	0.16%
QC value	within limits for V 292.402 Recovery = 99.31%					
Zn 206.200†	7763.4	518 ug/L	1.2	518 ug/L	1.2	0.24%
QC value	within limits for Zn 206.200 Recovery = 103.68%					
QC Failed.	Retry.					

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Sequence No.: 33                               Autosampler Location: 4
Sample ID: CCV                                 Date Collected: 5/9/2012 3:09:48 PM
Analyst:                                       Data Type: Original
    
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Initial Sample Wt:
Dilution:

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	253740.6	97.8 %	0.43			0.44%
Sc 361.383	2441791.6	98.9 %	0.94			0.95%
Ag 328.068†	91160.8	506 ug/L	1.2	506 ug/L	1.2	0.24%
QC value within limits for Ag	328.068	Recovery = 101.29%				
Al 308.215†	47602.7	18500 ug/L	72.6	18500 ug/L	72.6	0.39%
QC value less than the lower limit for Al	308.215	Recovery = 74.06%				
As 188.979†	754.9	503 ug/L	4.8	503 ug/L	4.8	0.96%
QC value within limits for As	188.979	Recovery = 100.66%				
Ba 233.527†	42209.6	498 ug/L	9.7	498 ug/L	9.7	1.94%
QC value within limits for Ba	233.527	Recovery = 99.54%				
Be 234.861†	72684.0	499 ug/L	6.8	499 ug/L	6.8	1.36%
QC value within limits for Be	234.861	Recovery = 99.89%				
Ca 315.887†	247511.4	24600 ug/L	11.6	24600 ug/L	11.6	0.05%
QC value within limits for Ca	315.887	Recovery = 98.58%				
Cd 226.502†	4403.7	508 ug/L	8.3	508 ug/L	8.3	1.64%
QC value within limits for Cd	226.502	Recovery = 101.64%				
Co 228.616†	14264.2	510 ug/L	6.7	510 ug/L	6.7	1.31%
QC value within limits for Co	228.616	Recovery = 102.06%				
Cr 267.716†	28561.8	514 ug/L	4.7	514 ug/L	4.7	0.92%
QC value within limits for Cr	267.716	Recovery = 102.86%				
Cu 324.752†	141860.2	491 ug/L	1.8	491 ug/L	1.8	0.37%
QC value within limits for Cu	324.752	Recovery = 98.23%				
Fe 259.939†	662248.5	40500 ug/L	95.3	40500 ug/L	95.3	0.24%
QC value within limits for Fe	259.939	Recovery = 101.33%				
K 766.490†	132645.3	25500 ug/L	46.3	25500 ug/L	46.3	0.18%
QC value within limits for K	766.490	Recovery = 101.97%				
Mg 279.077†	351484.3	25300 ug/L	294.7	25300 ug/L	294.7	1.17%
QC value within limits for Mg	279.077	Recovery = 101.12%				
Mn 257.610†	421464.8	515 ug/L	1.8	515 ug/L	1.8	0.36%
QC value within limits for Mn	257.610	Recovery = 102.92%				
Mo 202.031†	2563.3	511 ug/L	5.2	511 ug/L	5.2	1.02%
QC value within limits for Mo	202.031	Recovery = 102.25%				
Na 589.592†	295112.4	25100 ug/L	247.8	25100 ug/L	247.8	0.99%
QC value within limits for Na	589.592	Recovery = 100.50%				
Ni 231.604†	6473.1	515 ug/L	2.8	515 ug/L	2.8	0.54%
QC value within limits for Ni	231.604	Recovery = 103.07%				
Pb 220.353†	1062.6	507 ug/L	5.0	507 ug/L	5.0	0.99%
QC value within limits for Pb	220.353	Recovery = 101.42%				
Sb 206.836†	1087.8	497 ug/L	6.4	497 ug/L	6.4	1.28%
QC value within limits for Sb	206.836	Recovery = 99.45%				
Se 196.026†	369.7	504 ug/L	5.7	504 ug/L	5.7	1.14%
QC value within limits for Se	196.026	Recovery = 100.72%				
Sn 189.927†	936.4	407 ug/L	3.6	407 ug/L	3.6	0.89%
QC value within limits for Sn	189.927	Recovery = 101.64%				
Sr 421.552†	303835.5	407 ug/L	3.9	407 ug/L	3.9	0.96%
QC value within limits for Sr	421.552	Recovery = 101.70%				
Ti 334.940†	249355.2	403 ug/L	1.5	403 ug/L	1.5	0.37%
QC value within limits for Ti	334.940	Recovery = 100.70%				
Tl 190.801†	778.3	511 ug/L	6.6	511 ug/L	6.6	1.29%
QC value within limits for Tl	190.801	Recovery = 102.17%				
V 292.402†	25921.6	501 ug/L	7.6	501 ug/L	7.6	1.52%
QC value within limits for V	292.402	Recovery = 100.12%				
Zn 206.200†	7810.7	522 ug/L	7.7	522 ug/L	7.7	1.47%
QC value within limits for Zn	206.200	Recovery = 104.32%				
QC Failed.	Continue with analysis.					

Sequence No.: 34
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 5/9/2012 3:15:01 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	256728.3	99.0 %	0.50			0.51%
Sc 361.383	2471252.0	100 %	0.8			0.77%
Ag 328.068†	16.0	-0.136 ug/L	0.0419	-0.136 ug/L	0.0419	30.79%
QC value within limits for Ag	328.068	Recovery =	Not calculated			
Al 308.215†	22.7	7.80 ug/L	3.774	7.80 ug/L	3.774	48.41%
QC value within limits for Al	308.215	Recovery =	Not calculated			
As 188.979†	-0.6	0.105 ug/L	1.3612	0.105 ug/L	1.3612	>999.9%
QC value within limits for As	188.979	Recovery =	Not calculated			
Ba 233.527†	20.7	0.066 ug/L	0.0421	0.066 ug/L	0.0421	63.71%
QC value within limits for Ba	233.527	Recovery =	Not calculated			
Be 234.861†	21.8	0.198 ug/L	0.0377	0.198 ug/L	0.0377	19.03%
QC value within limits for Be	234.861	Recovery =	Not calculated			
Ca 315.887†	172.6	4.79 ug/L	1.137	4.79 ug/L	1.137	23.73%
QC value within limits for Ca	315.887	Recovery =	Not calculated			
Cd 226.502†	0.6	0.239 ug/L	0.1456	0.239 ug/L	0.1456	60.82%
QC value within limits for Cd	226.502	Recovery =	Not calculated			
Co 228.616†	4.3	0.062 ug/L	0.2134	0.062 ug/L	0.2134	343.47%
QC value within limits for Co	228.616	Recovery =	Not calculated			
Cr 267.716†	5.9	-1.16 ug/L	0.043	-1.16 ug/L	0.043	3.74%
QC value within limits for Cr	267.716	Recovery =	Not calculated			
Cu 324.752†	-51.5	-0.623 ug/L	0.0862	-0.623 ug/L	0.0862	13.84%
QC value within limits for Cu	324.752	Recovery =	Not calculated			
Fe 259.939†	366.4	18.6 ug/L	2.11	18.6 ug/L	2.11	11.32%
QC value within limits for Fe	259.939	Recovery =	Not calculated			
K 766.490†	125.4	27.7 ug/L	13.97	27.7 ug/L	13.97	50.38%
QC value within limits for K	766.490	Recovery =	Not calculated			
Mg 279.077†	155.8	8.22 ug/L	2.325	8.22 ug/L	2.325	28.28%
QC value within limits for Mg	279.077	Recovery =	Not calculated			
Mn 257.610†	287.5	-0.462 ug/L	0.0577	-0.462 ug/L	0.0577	12.50%
QC value within limits for Mn	257.610	Recovery =	Not calculated			
Mo 202.031†	3.1	0.723 ug/L	0.4008	0.723 ug/L	0.4008	55.46%
QC value within limits for Mo	202.031	Recovery =	Not calculated			
Na 589.592†	173.8	6.69 ug/L	1.640	6.69 ug/L	1.640	24.50%
QC value within limits for Na	589.592	Recovery =	Not calculated			
Ni 231.604†	7.9	0.147 ug/L	0.2818	0.147 ug/L	0.2818	192.09%
QC value within limits for Ni	231.604	Recovery =	Not calculated			
Pb 220.353†	4.4	2.73 ug/L	0.461	2.73 ug/L	0.461	16.91%
QC value within limits for Pb	220.353	Recovery =	Not calculated			
Sb 206.836†	-2.7	-2.07 ug/L	0.700	-2.07 ug/L	0.700	33.88%
QC value within limits for Sb	206.836	Recovery =	Not calculated			
Se 196.026†	-0.2	4.33 ug/L	5.059	4.33 ug/L	5.059	116.79%
QC value within limits for Se	196.026	Recovery =	Not calculated			
Sn 189.927†	0.8	1.78 ug/L	0.459	1.78 ug/L	0.459	25.75%
QC value within limits for Sn	189.927	Recovery =	Not calculated			
Sr 421.552†	119.0	0.124 ug/L	0.0197	0.124 ug/L	0.0197	15.87%
QC value within limits for Sr	421.552	Recovery =	Not calculated			
Ti 334.940†	124.2	0.177 ug/L	0.0902	0.177 ug/L	0.0902	50.94%
QC value within limits for Ti	334.940	Recovery =	Not calculated			
Tl 190.801†	3.2	1.83 ug/L	1.195	1.83 ug/L	1.195	65.20%
QC value within limits for Tl	190.801	Recovery =	Not calculated			
V 292.402†	17.2	0.130 ug/L	0.0891	0.130 ug/L	0.0891	68.33%
QC value within limits for V	292.402	Recovery =	Not calculated			
Zn 206.200†	-0.4	-1.46 ug/L	0.026	-1.46 ug/L	0.026	1.79%
QC value within limits for Zn	206.200	Recovery =	Not calculated			

All analyte(s) passed QC.

Sequence No.: 35
 Sample ID: 350584303
 Analyst:
 Initial Sample Wt:
 Dilution: 5X

Autosampler Location: 58
 Date Collected: 5/9/2012 3:21:12 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584303

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	253780.9	97.8 %	1.40			1.43%
Sc 361.383	2423272.9	98.1 %	0.83			0.85%
Ag 328.068†	6063.7	40.0 ug/L	0.26	200 ug/L	1.3	0.65%
Al 308.215†	51354.8	20000 ug/L	60.1	99900 ug/L	300.6	0.30%
As 188.979†	164.1	115 ug/L	1.4	575 ug/L	7.2	1.25%
Ba 233.527†	33042.5	381 ug/L	2.1	1900 ug/L	10.7	0.56%
Be 234.861†	15513.9	106 ug/L	0.4	530 ug/L	2.2	0.42%
Ca 315.887†	561987.2	56000 ug/L	94.9	280000 ug/L	474.5	0.17%
Cd 226.502†	943.9	102 ug/L	1.7	512 ug/L	8.4	1.63%
Co 228.616†	3620.0	126 ug/L	1.3	631 ug/L	6.7	1.06%
Cr 267.716†	16418.2	296 ug/L	1.0	1480 ug/L	5.0	0.34%
Cu 324.752†	40912.2	140 ug/L	0.6	700 ug/L	2.9	0.41%
Fe 259.939†	1709962.7	105000 ug/L	1289.5	523000 ug/L	6447.7	1.23%
K 766.490†	58331.5	11200 ug/L	32.1	56100 ug/L	160.5	0.29%
Mg 279.077†	396907.0	28500 ug/L	663.5	143000 ug/L	3317.6	2.32%
Mn 257.610†	794888.6	971 ug/L	0.9	4860 ug/L	4.3	0.09%
Mo 202.031†	479.1	97.7 ug/L	1.03	488 ug/L	5.1	1.05%
Na 589.592†	123502.3	10500 ug/L	33.8	52600 ug/L	168.9	0.32%
Ni 231.604†	1639.6	128 ug/L	0.7	641 ug/L	3.6	0.57%
Pb 220.353†	334.0	156 ug/L	0.7	780 ug/L	3.3	0.42%
Sb 206.836†	184.1	79.1 ug/L	3.30	396 ug/L	16.5	4.17%
Se 196.026†	31.0	59.9 ug/L	1.72	300 ug/L	8.6	2.87%
Sn 189.927†	240.4	104 ug/L	0.3	519 ug/L	1.7	0.32%
Sr 421.552†	132401.9	177 ug/L	0.9	886 ug/L	4.3	0.49%
Ti 334.940†	229564.5	371 ug/L	2.3	1850 ug/L	11.5	0.62%
Tl 190.801†	157.9	105 ug/L	2.9	524 ug/L	14.6	2.78%
V 292.402†	12633.8	223 ug/L	1.1	1110 ug/L	5.5	0.50%
Zn 206.200†	6479.1	430 ug/L	3.2	2150 ug/L	16.0	0.75%

Sequence No.: 36
 Sample ID: 350584301A
 Analyst:
 Initial Sample Wt:
 Dilution: 5X

Autosampler Location: 59
 Date Collected: 5/9/2012 3:26:31 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584301A

Analyte	Mean Corrected		Calib.		Sample		
	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD	
Sc Radial	253011.0	97.5 %	0.55			0.56%	
Sc 361.383	2361617.0	95.6 %	1.65			1.72%	
Ag 328.068†	36477.4	210 ug/L	4.6	1050 ug/L	23.1	2.20%	
Al 308.215†	121240.6	47200 ug/L	179.7	236000 ug/L	898.3	0.38%	
As 188.979†	861.3	578 ug/L	11.5	2890 ug/L	57.5	1.99%	
Ba 233.527†	135992.4	1600 ug/L	35.4	8020 ug/L	177.2	2.21%	
Be 234.861†	79538.0	546 ug/L	6.0	2730 ug/L	30.2	1.11%	
Ca 315.887†	858237.4	85500 ug/L	340.3	427000 ug/L	1701.3	0.40%	
Cd 226.502†	4754.5	543 ug/L	8.4	2710 ug/L	42.2	1.55%	
Co 228.616†	15426.8	549 ug/L	12.3	2740 ug/L	61.6	2.24%	
Cr 267.716†	38137.8	688 ug/L	9.8	3440 ug/L	49.0	1.43%	
Cu 324.752†	160888.1	556 ug/L	11.9	2780 ug/L	59.6	2.14%	
Fe 259.939†	2066284.4	126000 ug/L	848.0	632000 ug/L	4240.2	0.67%	
K 766.490†	286291.7	55000 ug/L	160.8	275000 ug/L	804.2	0.29%	
Mg 279.077†	864589.5	62200 ug/L	823.7	311000 ug/L	4118.3	1.32%	
Mn 257.610†	1216027.8	1490 ug/L	17.5	7430 ug/L	87.4	1.18%	
Mo 202.031†	2753.0	551 ug/L	12.7	2750 ug/L	63.6	2.31%	
Na 589.592†	618982.8	52700 ug/L	174.1	264000 ug/L	870.6	0.33%	
Ni 231.604†	7035.6	558 ug/L	9.9	2790 ug/L	49.3	1.77%	
Pb 220.353†	1215.3	578 ug/L	15.7	2890 ug/L	78.7	2.73%	
Sb 206.836†	1129.5	513 ug/L	10.2	2570 ug/L	50.9	1.98%	
Se 196.026†	373.7	522 ug/L	4.2	2610 ug/L	21.0	0.81%	
Sn 189.927†	1259.0	547 ug/L	11.4	2740 ug/L	56.9	2.08%	
Sr 421.552†	432882.2	580 ug/L	1.9	2900 ug/L	9.6	0.33%	
Ti 334.940†	532060.2	859 ug/L	7.7	4300 ug/L	38.7	0.90%	
Tl 190.801†	800.3	527 ug/L	13.8	2630 ug/L	69.0	2.62%	
V 292.402†	35223.1	663 ug/L	10.0	3310 ug/L	49.9	1.51%	
Zn 206.200†	12971.0	865 ug/L	13.5	4320 ug/L	67.4	1.56%	

Sequence No.: 37
 Sample ID: 350584304
 Analyst:
 Initial Sample Wt:
 Dilution: 5X

Autosampler Location: 60
 Date Collected: 5/9/2012 3:31:51 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584304

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	247673.9		95.5 %	0.76			0.80%
Sc 361.383	2418802.7		98.0 %	1.82			1.86%
Ag 328.068†	-1172.7		-0.085 ug/L	0.3730	-0.424 ug/L	1.8648	439.71%
Al 308.215†	27303.1		10600 ug/L	89.4	53100 ug/L	447.0	0.84%
As 188.979†	53.2		41.1 ug/L	1.98	206 ug/L	9.9	4.81%
Ba 233.527†	13155.4		144 ug/L	2.7	719 ug/L	13.3	1.85%
Be 234.861†	376.4		2.01 ug/L	0.283	10.1 ug/L	1.41	14.04%
Ca 315.887†	448565.4		44700 ug/L	428.7	223000 ug/L	2143.7	0.96%
Cd 226.502†	51.4		-1.11 ug/L	0.173	-5.56 ug/L	0.863	15.53%
Co 228.616†	704.3		21.5 ug/L	0.32	107 ug/L	1.6	1.50%
Cr 267.716†	9863.1		178 ug/L	3.1	888 ug/L	15.5	1.74%
Cu 324.752†	13732.7		44.7 ug/L	1.02	223 ug/L	5.1	2.29%
Fe 259.939†	1691306.7		104000 ug/L	1085.6	518000 ug/L	5427.8	1.05%
K 766.490†	4625.7		893 ug/L	21.2	4460 ug/L	105.8	2.37%
Mg 279.077†	262815.9		18900 ug/L	87.8	94500 ug/L	439.2	0.46%
Mn 257.610†	1314461.0		1610 ug/L	27.2	8030 ug/L	135.8	1.69%
Mo 202.031†	18.8		6.02 ug/L	0.797	30.1 ug/L	3.98	13.23%
Na 589.592†	2458.0		201 ug/L	7.2	1010 ug/L	36.1	3.58%
Ni 231.604†	361.4		26.2 ug/L	0.49	131 ug/L	2.4	1.86%
Pb 220.353†	121.5		53.9 ug/L	1.47	270 ug/L	7.4	2.73%
Sb 206.836†	8.7		-0.930 ug/L	2.7707	-4.65 ug/L	13.853	297.78%
Se 196.026†	-12.5		0.824 ug/L	2.2123	4.12 ug/L	11.061	268.34%
Sn 189.927†	-4.3		-2.71 ug/L	2.261	-13.5 ug/L	11.31	83.49%
Sr 421.552†	40253.2		53.9 ug/L	0.36	269 ug/L	1.8	0.67%
Ti 334.940†	238736.9		386 ug/L	9.0	1930 ug/L	45.2	2.34%
Tl 190.801†	-2.6		-0.256 ug/L	2.3906	-1.28 ug/L	11.953	934.10%
V 292.402†	6767.3		108 ug/L	2.6	538 ug/L	12.8	2.39%
Zn 206.200†	5511.5		365 ug/L	6.8	1820 ug/L	33.8	1.85%

Sequence No.: 38
 Sample ID: 350584305
 Analyst:
 Initial Sample Wt:
 Dilution: 5X

Autosampler Location: 61
 Date Collected: 5/9/2012 3:37:09 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584305

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	258683.9		99.7 %	0.55			0.55%
Sc 361.383	2479940.1		100 %	0.3			0.33%
Ag 328.068†	-1248.9		-0.345 ug/L	0.1873	-1.72 ug/L	0.937	54.31%
Al 308.215†	22738.3		8840 ug/L	74.4	44200 ug/L	372.0	0.84%
As 188.979†	76.0		56.0 ug/L	1.97	280 ug/L	9.9	3.52%
Ba 233.527†	11146.1		119 ug/L	1.1	597 ug/L	5.5	0.92%
Be 234.861†	370.3		1.96 ug/L	0.638	9.79 ug/L	3.190	32.58%
Ca 315.887†	410077.0		40800 ug/L	436.3	204000 ug/L	2181.6	1.07%
Cd 226.502†	54.2		-0.963 ug/L	0.2854	-4.81 ug/L	1.427	29.63%
Co 228.616†	671.2		20.2 ug/L	0.15	101 ug/L	0.8	0.75%
Cr 267.716†	8038.4		145 ug/L	0.3	723 ug/L	1.6	0.22%
Cu 324.752†	19272.2		64.5 ug/L	0.63	322 ug/L	3.1	0.97%
Fe 259.939†	1732418.5		106000 ug/L	1058.7	530000 ug/L	5293.7	1.00%
K 766.490†	3453.2		667 ug/L	19.2	3340 ug/L	96.0	2.88%
Mg 279.077†	173584.3		12500 ug/L	98.2	62400 ug/L	490.8	0.79%
Mn 257.610†	1016206.0		1240 ug/L	3.8	6210 ug/L	19.2	0.31%
Mo 202.031†	7.4		3.80 ug/L	0.202	19.0 ug/L	1.01	5.32%
Na 589.592†	4017.1		334 ug/L	5.1	1670 ug/L	25.5	1.53%
Ni 231.604†	300.5		21.3 ug/L	0.17	106 ug/L	0.8	0.79%
Pb 220.353†	126.9		56.2 ug/L	3.07	281 ug/L	15.3	5.46%
Sb 206.836†	9.7		-0.272 ug/L	2.6248	-1.36 ug/L	13.124	963.55%
Se 196.026†	-18.1		-6.83 ug/L	6.957	-34.1 ug/L	34.78	101.89%
Sn 189.927†	54.6		22.1 ug/L	2.63	111 ug/L	13.2	11.89%
Sr 421.552†	50691.2		67.8 ug/L	0.32	339 ug/L	1.6	0.48%
Ti 334.940†	248401.7		401 ug/L	1.7	2010 ug/L	8.5	0.42%
Tl 190.801†	0.2		1.56 ug/L	0.594	7.81 ug/L	2.968	37.97%
V 292.402†	7713.4		125 ug/L	0.3	627 ug/L	1.5	0.24%
Zn 206.200†	4351.5		287 ug/L	1.6	1430 ug/L	8.0	0.56%

Sequence No.: 39
 Sample ID: 350584306
 Analyst:
 Initial Sample Wt:
 Dilution: 5X

Autosampler Location: 62
 Date Collected: 5/9/2012 3:42:28 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584306

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	252935.9		97.5 %	0.56			0.57%
Sc 361.383	2417492.6		97.9 %	0.26			0.27%
Ag 328.068†	-1637.5		-0.235 ug/L	0.1491	-1.17 ug/L	0.745	63.52%
Al 308.215†	40413.1		15700 ug/L	23.8	78600 ug/L	119.2	0.15%
As 188.979†	91.4		68.6 ug/L	1.50	343 ug/L	7.5	2.19%
Ba 233.527†	24002.7		268 ug/L	1.4	1340 ug/L	7.2	0.54%
Be 234.861†	653.0		3.69 ug/L	0.194	18.4 ug/L	0.97	5.25%
Ca 315.887†	635433.7		63300 ug/L	75.6	316000 ug/L	377.9	0.12%
Cd 226.502†	73.7		-1.17 ug/L	0.190	-5.86 ug/L	0.952	16.25%
Co 228.616†	957.5		28.8 ug/L	0.08	144 ug/L	0.4	0.29%
Cr 267.716†	15927.7		287 ug/L	1.3	1440 ug/L	6.3	0.44%
Cu 324.752†	8986.5		23.6 ug/L	0.34	118 ug/L	1.7	1.43%
Fe 259.939†	2309062.4		141000 ug/L	1445.1	707000 ug/L	7225.5	1.02%
K 766.490†	8630.0		1660 ug/L	26.0	8310 ug/L	129.8	1.56%
Mg 279.077†	249112.8		17900 ug/L	83.2	89700 ug/L	416.0	0.46%
Mn 257.610†	3603261.8		4410 ug/L	5.9	22000 ug/L	29.6	0.13%
Mo 202.031†	6.5		4.37 ug/L	0.770	21.9 ug/L	3.85	17.62%
Na 589.592†	5837.3		489 ug/L	3.4	2450 ug/L	17.2	0.70%
Ni 231.604†	376.4		26.6 ug/L	0.61	133 ug/L	3.0	2.28%
Pb 220.353†	142.7		62.6 ug/L	0.48	313 ug/L	2.4	0.77%
Sb 206.836†	19.7		2.72 ug/L	2.401	13.6 ug/L	12.00	88.30%
Se 196.026†	-22.6		-7.81 ug/L	5.832	-39.1 ug/L	29.16	74.66%
Sn 189.927†	-15.6		-6.94 ug/L	1.164	-34.7 ug/L	5.82	16.77%
Sr 421.552†	70586.3		94.5 ug/L	0.38	472 ug/L	1.9	0.40%
Ti 334.940†	479731.8		775 ug/L	1.2	3870 ug/L	6.1	0.16%
Tl 190.801†	3.5		4.58 ug/L	2.324	22.9 ug/L	11.62	50.74%
V 292.402†	12787.2		217 ug/L	1.7	1080 ug/L	8.7	0.80%
Zn 206.200†	9483.7		629 ug/L	3.1	3150 ug/L	15.5	0.49%

Sequence No.: 40
 Sample ID: 350584307
 Analyst:
 Initial Sample Wt:
 Dilution: 5X

Autosampler Location: 63
 Date Collected: 5/9/2012 3:47:48 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584307

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	257251.1		99.2 %	0.31			0.31%
Sc 361.383	2447191.3		99.1 %	0.71			0.72%
Ag 328.068†	-659.5		-0.050 ug/L	0.1876	-0.249 ug/L	0.9381	376.96%
Al 308.215†	19002.1		7390 ug/L	71.2	36900 ug/L	356.0	0.96%
As 188.979†	39.1		29.5 ug/L	2.32	147 ug/L	11.6	7.88%
Ba 233.527†	8237.8		90.6 ug/L	1.71	453 ug/L	8.5	1.88%
Be 234.861†	321.7		1.90 ug/L	0.127	9.51 ug/L	0.637	6.70%
Ca 315.887†	431957.4		43000 ug/L	275.3	215000 ug/L	1376.5	0.64%
Cd 226.502†	32.3		-0.266 ug/L	0.2030	-1.33 ug/L	1.015	76.41%
Co 228.616†	443.2		13.5 ug/L	0.18	67.5 ug/L	0.92	1.36%
Cr 267.716†	5584.9		100 ug/L	1.0	500 ug/L	5.1	1.02%
Cu 324.752†	3684.5		10.4 ug/L	0.26	52.0 ug/L	1.31	2.53%
Fe 259.939†	975874.3		59700 ug/L	374.1	299000 ug/L	1870.7	0.63%
K 766.490†	3731.8		721 ug/L	12.8	3600 ug/L	64.0	1.78%
Mg 279.077†	195526.2		14100 ug/L	159.0	70300 ug/L	795.2	1.13%
Mn 257.610†	986197.7		1210 ug/L	5.6	6030 ug/L	28.1	0.47%
Mo 202.031†	-2.4		0.884 ug/L	0.0759	4.42 ug/L	0.380	8.59%
Na 589.592†	2526.4		207 ug/L	13.5	1040 ug/L	67.4	6.51%
Ni 231.604†	212.9		15.3 ug/L	0.11	76.3 ug/L	0.54	0.71%
Pb 220.353†	63.9		28.6 ug/L	2.83	143 ug/L	14.1	9.89%
Sb 206.836†	0.4		-2.87 ug/L	1.933	-14.3 ug/L	9.67	67.46%
Se 196.026†	-12.4		-3.07 ug/L	3.644	-15.3 ug/L	18.22	118.70%
Sn 189.927†	-13.1		-3.25 ug/L	1.069	-16.2 ug/L	5.35	32.91%
Sr 421.552†	46767.1		62.6 ug/L	0.77	313 ug/L	3.8	1.22%
Ti 334.940†	196487.4		317 ug/L	1.7	1590 ug/L	8.7	0.55%
Tl 190.801†	0.7		1.25 ug/L	1.672	6.25 ug/L	8.362	133.78%
V 292.402†	5170.5		86.9 ug/L	0.74	434 ug/L	3.7	0.85%
Zn 206.200†	3147.7		208 ug/L	0.9	1040 ug/L	4.6	0.44%

User canceled analysis.

=====
Analysis Begun

Start Time: 5/9/2012 3:52:48 PM Plasma On Time: 5/9/2012 7:01:25 AM
Logged In Analyst: inorg Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N3112401 Autosampler Model: AS-93plus

Sample Information File: D:\pe\inorg\Sample Information\050912B.sif
Batch ID: 050912B
Results Data Set: 050912B-1
Results Library: d:\pe\inorg\Results\Results.mdb

=====
Sequence No.: 1 Autosampler Location: 6
Sample ID: ICV Date Collected: 5/9/2012 3:52:50 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
User canceled analysis.

=====
Analysis Begun

Start Time: 5/9/2012 3:53:17 PM Plasma On Time: 5/9/2012 7:01:25 AM
Logged In Analyst: inorg Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N3112401 Autosampler Model: AS-93plus

Sample Information File: D:\pe\inorg\Sample Information\050912B.sif
Batch ID: 050912B
Results Data Set: 050912B-1
Results Library: d:\pe\inorg\Results\Results.mdb

=====
Sequence No.: 39 Autosampler Location: 64
Sample ID: 350584308 Date Collected: 5/9/2012 3:53:17 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: 5X Sample Prep Vol:
User canceled analysis.

=====
Analysis Begun

Start Time: 5/9/2012 3:55:22 PM Plasma On Time: 5/9/2012 7:01:25 AM
Logged In Analyst: inorg Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N3112401 Autosampler Model: AS-93plus

Sample Information File: D:\pe\inorg\Sample Information\050912B.sif
Batch ID: 050912B
Results Data Set: 050912B-1
Results Library: d:\pe\inorg\Results\Results.mdb

=====
Sequence No.: 1 Autosampler Location: 6
Sample ID: ICV Date Collected: 5/9/2012 3:55:23 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
User canceled analysis.

=====
Analysis Begun

Start Time: 5/9/2012 3:55:41 PM Plasma On Time: 5/9/2012 7:01:25 AM
Logged In Analyst: inorg Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N3112401 Autosampler Model: AS-93plus

Sample Information File: D:\pe\inorg\Sample Information\050912B.sif
Batch ID: 050912B
Results Data Set: 050912B-1
Results Library: d:\pe\inorg\Results\Results.mdb

=====
Sequence No.: 39 Autosampler Location: 65
Sample ID: 350584309 Date Collected: 5/9/2012 3:55:42 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: 5X Sample Prep Vol:

Mean Data: 350584309

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	250163.5	96.4 %	0.83			0.87%
Sc 361.383	2405512.0	97.4 %	0.45			0.46%
Ag 328.068†	-848.2	-0.244 ug/L	0.0580	-1.22 ug/L	0.290	23.83%
Al 308.215†	20558.6	7990 ug/L	36.1	40000 ug/L	180.7	0.45%
As 188.979†	40.2	30.8 ug/L	0.37	154 ug/L	1.8	1.19%
Ba 233.527†	8668.8	94.1 ug/L	0.46	470 ug/L	2.3	0.49%
Be 234.861†	223.6	1.15 ug/L	0.321	5.74 ug/L	1.604	27.95%
Ca 315.887†	361259.9	36000 ug/L	482.3	180000 ug/L	2411.6	1.34%
Cd 226.502†	41.9	-0.083 ug/L	0.2421	-0.413 ug/L	1.2107	293.14%
Co 228.616†	651.2	20.7 ug/L	0.20	103 ug/L	1.0	0.94%
Cr 267.716†	5713.1	102 ug/L	0.4	512 ug/L	2.1	0.41%
Cu 324.752†	23981.4	80.0 ug/L	1.48	400 ug/L	7.4	1.86%
Fe 259.939†	1192689.9	73000 ug/L	948.2	365000 ug/L	4740.8	1.30%
K 766.490†	3385.6	654 ug/L	12.0	3270 ug/L	59.8	1.83%
Mg 279.077†	205440.0	14800 ug/L	198.5	73900 ug/L	992.4	1.34%
Mn 257.610†	1438306.6	1760 ug/L	1.6	8790 ug/L	8.2	0.09%
Mo 202.031†	2.2	2.09 ug/L	0.477	10.4 ug/L	2.39	22.89%
Na 589.592†	1916.2	155 ug/L	6.4	775 ug/L	31.9	4.11%
Ni 231.604†	307.4	22.5 ug/L	0.40	113 ug/L	2.0	1.77%
Pb 220.353†	160.9	74.1 ug/L	2.11	370 ug/L	10.6	2.85%
Sb 206.836†	6.9	-0.381 ug/L	0.5831	-1.91 ug/L	2.916	152.99%
Se 196.026†	-9.6	1.29 ug/L	4.266	6.46 ug/L	21.329	329.97%
Sn 189.927†	51.4	22.4 ug/L	0.72	112 ug/L	3.6	3.20%
Sr 421.552†	32424.1	43.4 ug/L	0.13	217 ug/L	0.6	0.29%
Ti 334.940†	161883.0	261 ug/L	3.3	1310 ug/L	16.7	1.28%
Tl 190.801†	-0.9	0.206 ug/L	2.9824	1.03 ug/L	14.912	>999.9%
V 292.402†	5914.9	98.2 ug/L	0.63	491 ug/L	3.2	0.64%
Zn 206.200†	5018.6	332 ug/L	1.9	1660 ug/L	9.7	0.58%

Sequence No.: 40
 Sample ID: 350584310
 Analyst:
 Initial Sample Wt:
 Dilution: 5X

Autosampler Location: 66
 Date Collected: 5/9/2012 4:00:59 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584310

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	256029.3		98.7 %	0.35			0.35%
Sc 361.383	2498962.7		101 %	1.0			0.95%
Ag 328.068†	-1024.5		0.021 ug/L	0.2959	0.107 ug/L	1.4796	>999.9%
Al 308.215†	19969.1		7770 ug/L	27.6	38800 ug/L	137.9	0.36%
As 188.979†	51.7		39.3 ug/L	1.33	197 ug/L	6.7	3.38%
Ba 233.527†	7257.1		74.8 ug/L	0.99	374 ug/L	5.0	1.32%
Be 234.861†	390.8		2.18 ug/L	0.384	10.9 ug/L	1.92	17.62%
Ca 315.887†	351949.1		35100 ug/L	227.4	175000 ug/L	1137.0	0.65%
Cd 226.502†	50.1		-0.484 ug/L	0.2617	-2.42 ug/L	1.308	54.02%
Co 228.616†	618.0		18.9 ug/L	0.10	94.4 ug/L	0.50	0.53%
Cr 267.716†	7390.2		133 ug/L	1.2	664 ug/L	6.1	0.91%
Cu 324.752†	11565.4		36.1 ug/L	0.86	181 ug/L	4.3	2.40%
Fe 259.939†	1509140.5		92400 ug/L	721.7	462000 ug/L	3608.3	0.78%
K 766.490†	2136.3		414 ug/L	12.9	2070 ug/L	64.5	3.11%
Mg 279.077†	193022.3		13900 ug/L	150.8	69500 ug/L	754.0	1.09%
Mn 257.610†	1829134.4		2240 ug/L	16.3	11200 ug/L	81.3	0.73%
Mo 202.031†	4.3		2.91 ug/L	1.205	14.5 ug/L	6.02	41.46%
Na 589.592†	1762.3		142 ug/L	1.1	710 ug/L	5.3	0.75%
Ni 231.604†	239.1		16.7 ug/L	0.90	83.4 ug/L	4.52	5.42%
Pb 220.353†	102.1		45.0 ug/L	2.54	225 ug/L	12.7	5.64%
Sb 206.836†	8.8		-0.308 ug/L	0.5758	-1.54 ug/L	2.879	186.73%
Se 196.026†	-15.1		-4.47 ug/L	5.132	-22.4 ug/L	25.66	114.75%
Sn 189.927†	-9.0		-5.25 ug/L	1.469	-26.3 ug/L	7.34	27.96%
Sr 421.552†	24883.8		33.3 ug/L	0.14	166 ug/L	0.7	0.41%
Ti 334.940†	181194.9		293 ug/L	6.5	1460 ug/L	32.4	2.22%
Tl 190.801†	1.9		2.36 ug/L	1.619	11.8 ug/L	8.09	68.71%
V 292.402†	7229.1		119 ug/L	1.5	597 ug/L	7.6	1.27%
Zn 206.200†	4890.6		323 ug/L	3.7	1620 ug/L	18.4	1.14%

Sequence No.: 41
 Sample ID: 350584311
 Analyst:
 Initial Sample Wt:
 Dilution: 5X

Autosampler Location: 67
 Date Collected: 5/9/2012 4:06:18 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584311

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	253518.6		97.7 %	1.10			1.13%
Sc 361.383	2433277.5		98.5 %	0.84			0.85%
Ag 328.068†	-1061.3	-0.312	ug/L	0.2412	-1.56	1.206	77.41%
Al 308.215†	28660.9	11100	ug/L	41.5	55700	207.4	0.37%
As 188.979†	48.9	37.7	ug/L	4.27	188	21.4	11.34%
Ba 233.527†	15360.1	172	ug/L	0.9	858	4.7	0.54%
Be 234.861†	435.6	2.50	ug/L	0.906	12.5	4.53	36.22%
Ca 315.887†	628804.0	62600	ug/L	920.5	313000	4602.4	1.47%
Cd 226.502†	91.1	4.41	ug/L	0.394	22.1	1.97	8.93%
Co 228.616†	655.7	19.7	ug/L	0.23	98.5	1.13	1.14%
Cr 267.716†	9308.5	167	ug/L	1.2	837	6.2	0.74%
Cu 324.752†	8575.1	25.8	ug/L	0.21	129	1.1	0.83%
Fe 259.939†	1476115.8	90400	ug/L	1436.6	452000	7183.2	1.59%
K 766.490†	3747.6	724	ug/L	29.9	3620	149.6	4.13%
Mg 279.077†	352468.6	25400	ug/L	175.0	127000	874.9	0.69%
Mn 257.610†	1799252.8	2200	ug/L	34.2	11000	171.0	1.55%
Mo 202.031†	44.2	10.8	ug/L	0.06	54.0	0.32	0.60%
Na 589.592†	6911.5	581	ug/L	7.1	2900	35.3	1.22%
Ni 231.604†	586.5	44.5	ug/L	0.37	222	1.8	0.83%
Pb 220.353†	109.7	49.3	ug/L	1.21	246	6.0	2.45%
Sb 206.836†	12.4	1.66	ug/L	1.704	8.29	8.519	102.83%
Se 196.026†	-15.2	-2.55	ug/L	4.501	-12.8	22.50	176.19%
Sn 189.927†	-16.2	-3.68	ug/L	0.700	-18.4	3.50	19.03%
Sr 421.552†	82997.6	111	ug/L	0.4	556	1.9	0.34%
Ti 334.940†	378922.8	612	ug/L	8.9	3060	44.3	1.45%
Tl 190.801†	0.0	1.60	ug/L	2.564	7.98	12.818	160.52%
V 292.402†	7413.8	124	ug/L	0.3	618	1.7	0.28%
Zn 206.200†	5845.2	387	ug/L	1.9	1940	9.6	0.50%

Sequence No.: 42
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 5/9/2012 4:11:37 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	252309.0	97.3 %	0.59			0.61%
Sc 361.383	2428239.0	98.3 %	1.03			1.05%
Ag 328.068†	90962.6	505 ug/L	6.3	505 ug/L	6.3	1.24%
	QC value within limits for Ag 328.068	Recovery = 101.07%				
Al 308.215†	47379.7	18400 ug/L	85.0	18400 ug/L	85.0	0.46%
	QC value less than the lower limit for Al 308.215	Recovery = 73.72%				
As 188.979†	760.2	507 ug/L	6.1	507 ug/L	6.1	1.20%
	QC value within limits for As 188.979	Recovery = 101.36%				
Ba 233.527†	41849.5	493 ug/L	1.3	493 ug/L	1.3	0.27%
	QC value within limits for Ba 233.527	Recovery = 98.69%				
Be 234.861†	72462.1	498 ug/L	7.5	498 ug/L	7.5	1.51%
	QC value within limits for Be 234.861	Recovery = 99.59%				
Ca 315.887†	244845.3	24400 ug/L	39.1	24400 ug/L	39.1	0.16%
	QC value within limits for Ca 315.887	Recovery = 97.52%				
Cd 226.502†	4334.0	500 ug/L	6.2	500 ug/L	6.2	1.25%
	QC value within limits for Cd 226.502	Recovery = 100.03%				
Co 228.616†	14294.0	511 ug/L	5.3	511 ug/L	5.3	1.04%
	QC value within limits for Co 228.616	Recovery = 102.28%				
Cr 267.716†	28435.5	512 ug/L	3.9	512 ug/L	3.9	0.77%
	QC value within limits for Cr 267.716	Recovery = 102.40%				
Cu 324.752†	142430.6	493 ug/L	4.8	493 ug/L	4.8	0.97%
	QC value within limits for Cu 324.752	Recovery = 98.63%				
Fe 259.939†	658818.5	40300 ug/L	142.9	40300 ug/L	142.9	0.35%
	QC value within limits for Fe 259.939	Recovery = 100.81%				
K 766.490†	132589.4	25500 ug/L	87.5	25500 ug/L	87.5	0.34%
	QC value within limits for K 766.490	Recovery = 101.93%				
Mg 279.077†	352509.2	25400 ug/L	310.5	25400 ug/L	310.5	1.22%
	QC value within limits for Mg 279.077	Recovery = 101.41%				
Mn 257.610†	423157.6	517 ug/L	6.2	517 ug/L	6.2	1.20%
	QC value within limits for Mn 257.610	Recovery = 103.34%				
Mo 202.031†	2575.7	514 ug/L	5.8	514 ug/L	5.8	1.13%
	QC value within limits for Mo 202.031	Recovery = 102.74%				
Na 589.592†	295784.8	25200 ug/L	336.3	25200 ug/L	336.3	1.34%
	QC value within limits for Na 589.592	Recovery = 100.73%				
Ni 231.604†	6430.1	512 ug/L	4.3	512 ug/L	4.3	0.84%
	QC value within limits for Ni 231.604	Recovery = 102.38%				
Pb 220.353†	1056.4	504 ug/L	6.7	504 ug/L	6.7	1.33%
	QC value within limits for Pb 220.353	Recovery = 100.83%				
Sb 206.836†	1101.1	503 ug/L	6.5	503 ug/L	6.5	1.29%
	QC value within limits for Sb 206.836	Recovery = 100.69%				
Se 196.026†	366.4	499 ug/L	4.8	499 ug/L	4.8	0.96%
	QC value within limits for Se 196.026	Recovery = 99.85%				
Sn 189.927†	935.8	406 ug/L	4.3	406 ug/L	4.3	1.07%
	QC value within limits for Sn 189.927	Recovery = 101.57%				
Sr 421.552†	303733.6	407 ug/L	6.1	407 ug/L	6.1	1.49%
	QC value within limits for Sr 421.552	Recovery = 101.67%				
Ti 334.940†	249990.1	404 ug/L	4.0	404 ug/L	4.0	1.00%
	QC value within limits for Ti 334.940	Recovery = 100.95%				
Tl 190.801†	777.9	511 ug/L	4.7	511 ug/L	4.7	0.92%
	QC value within limits for Tl 190.801	Recovery = 102.12%				
V 292.402†	25745.9	497 ug/L	1.9	497 ug/L	1.9	0.38%
	QC value within limits for V 292.402	Recovery = 99.44%				
Zn 206.200†	7728.7	516 ug/L	1.8	516 ug/L	1.8	0.35%
	QC value within limits for Zn 206.200	Recovery = 103.22%				
QC Failed. Retry.						

Sequence No.: 43
 Sample ID: CCV
 Analyst:

Autosampler Location: 4
 Date Collected: 5/9/2012 4:14:20 PM
 Data Type: Original

Initial Sample Wt:
Dilution:

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	254233.9	98.0 %	1.39			1.42%
Sc 361.383	2430899.1	98.4 %	0.74			0.75%
Ag 328.068†	91499.8	508 ug/L	3.6	508 ug/L	3.6	0.71%
QC value within limits for Ag	328.068	Recovery = 101.66%				
Al 308.215†	47570.0	18500 ug/L	87.2	18500 ug/L	87.2	0.47%
QC value less than the lower limit for Al	308.215	Recovery = 74.01%				
As 188.979†	764.3	510 ug/L	3.3	510 ug/L	3.3	0.65%
QC value within limits for As	188.979	Recovery = 101.90%				
Ba 233.527†	42033.7	496 ug/L	0.6	496 ug/L	0.6	0.13%
QC value within limits for Ba	233.527	Recovery = 99.12%				
Be 234.861†	72314.8	497 ug/L	2.4	497 ug/L	2.4	0.49%
QC value within limits for Be	234.861	Recovery = 99.38%				
Ca 315.887†	246550.5	24600 ug/L	77.1	24600 ug/L	77.1	0.31%
QC value within limits for Ca	315.887	Recovery = 98.20%				
Cd 226.502†	4354.7	503 ug/L	9.7	503 ug/L	9.7	1.93%
QC value within limits for Cd	226.502	Recovery = 100.50%				
Co 228.616†	14369.5	514 ug/L	3.3	514 ug/L	3.3	0.65%
QC value within limits for Co	228.616	Recovery = 102.82%				
Cr 267.716†	28590.2	515 ug/L	3.8	515 ug/L	3.8	0.73%
QC value within limits for Cr	267.716	Recovery = 102.96%				
Cu 324.752†	142190.2	492 ug/L	1.6	492 ug/L	1.6	0.32%
QC value within limits for Cu	324.752	Recovery = 98.46%				
Fe 259.939†	661769.9	40500 ug/L	178.4	40500 ug/L	178.4	0.44%
QC value within limits for Fe	259.939	Recovery = 101.26%				
K 766.490†	133295.2	25600 ug/L	82.8	25600 ug/L	82.8	0.32%
QC value within limits for K	766.490	Recovery = 102.47%				
Mg 279.077†	351016.4	25200 ug/L	519.2	25200 ug/L	519.2	2.06%
QC value within limits for Mg	279.077	Recovery = 100.98%				
Mn 257.610†	425033.8	519 ug/L	0.7	519 ug/L	0.7	0.14%
QC value within limits for Mn	257.610	Recovery = 103.79%				
Mo 202.031†	2593.3	517 ug/L	9.6	517 ug/L	9.6	1.86%
QC value within limits for Mo	202.031	Recovery = 103.44%				
Na 589.592†	295285.6	25100 ug/L	469.3	25100 ug/L	469.3	1.87%
QC value within limits for Na	589.592	Recovery = 100.56%				
Ni 231.604†	6431.4	512 ug/L	4.5	512 ug/L	4.5	0.87%
QC value within limits for Ni	231.604	Recovery = 102.40%				
Pb 220.353†	1059.7	506 ug/L	4.2	506 ug/L	4.2	0.84%
QC value within limits for Pb	220.353	Recovery = 101.14%				
Sb 206.836†	1101.0	503 ug/L	6.8	503 ug/L	6.8	1.36%
QC value within limits for Sb	206.836	Recovery = 100.67%				
Se 196.026†	368.2	502 ug/L	8.9	502 ug/L	8.9	1.78%
QC value within limits for Se	196.026	Recovery = 100.34%				
Sn 189.927†	939.5	408 ug/L	5.0	408 ug/L	5.0	1.22%
QC value within limits for Sn	189.927	Recovery = 101.97%				
Sr 421.552†	302862.6	406 ug/L	7.8	406 ug/L	7.8	1.92%
QC value within limits for Sr	421.552	Recovery = 101.38%				
Ti 334.940†	250203.7	404 ug/L	1.1	404 ug/L	1.1	0.28%
QC value within limits for Ti	334.940	Recovery = 101.04%				
Tl 190.801†	782.1	513 ug/L	9.6	513 ug/L	9.6	1.86%
QC value within limits for Tl	190.801	Recovery = 102.67%				
V 292.402†	25714.4	497 ug/L	6.1	497 ug/L	6.1	1.23%
QC value within limits for V	292.402	Recovery = 99.30%				
Zn 206.200†	7741.1	517 ug/L	2.0	517 ug/L	2.0	0.39%
QC value within limits for Zn	206.200	Recovery = 103.38%				
QC Failed.	Continue with analysis.					

Sequence No.: 44
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 5/9/2012 4:19:35 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	252845.1	97.5 %	0.98			1.01%
Sc 361.383	2461806.1	99.7 %	1.21			1.21%
Ag 328.068†	52.1	0.063 ug/L	0.2852	0.063 ug/L	0.2852	453.49%
QC value within limits for Ag 328.068		Recovery =	Not calculated			
Al 308.215†	16.5	5.38 ug/L	2.002	5.38 ug/L	2.002	37.22%
QC value within limits for Al 308.215		Recovery =	Not calculated			
As 188.979†	-0.6	0.114 ug/L	1.3683	0.114 ug/L	1.3683	>999.9%
QC value within limits for As 188.979		Recovery =	Not calculated			
Ba 233.527†	15.0	-0.001 ug/L	0.0422	-0.001 ug/L	0.0422	>999.9%
QC value within limits for Ba 233.527		Recovery =	Not calculated			
Be 234.861†	13.2	0.140 ug/L	0.0312	0.140 ug/L	0.0312	22.38%
QC value within limits for Be 234.861		Recovery =	Not calculated			
Ca 315.887†	88.5	-3.59 ug/L	0.749	-3.59 ug/L	0.749	20.85%
QC value within limits for Ca 315.887		Recovery =	Not calculated			
Cd 226.502†	-1.1	0.037 ug/L	0.2908	0.037 ug/L	0.2908	776.64%
QC value within limits for Cd 226.502		Recovery =	Not calculated			
Co 228.616†	-0.7	-0.115 ug/L	0.1923	-0.115 ug/L	0.1923	167.68%
QC value within limits for Co 228.616		Recovery =	Not calculated			
Cr 267.716†	6.6	-1.14 ug/L	0.070	-1.14 ug/L	0.070	6.11%
QC value within limits for Cr 267.716		Recovery =	Not calculated			
Cu 324.752†	-112.6	-0.834 ug/L	0.1352	-0.834 ug/L	0.1352	16.21%
QC value within limits for Cu 324.752		Recovery =	Not calculated			
Fe 259.939†	255.0	11.8 ug/L	1.55	11.8 ug/L	1.55	13.09%
QC value within limits for Fe 259.939		Recovery =	Not calculated			
K 766.490†	-58.6	-7.65 ug/L	9.376	-7.65 ug/L	9.376	122.62%
QC value within limits for K 766.490		Recovery =	Not calculated			
Mg 279.077†	76.9	2.55 ug/L	3.167	2.55 ug/L	3.167	124.36%
QC value within limits for Mg 279.077		Recovery =	Not calculated			
Mn 257.610†	186.2	-0.586 ug/L	0.0387	-0.586 ug/L	0.0387	6.61%
QC value within limits for Mn 257.610		Recovery =	Not calculated			
Mo 202.031†	0.1	0.134 ug/L	0.5267	0.134 ug/L	0.5267	391.69%
QC value within limits for Mo 202.031		Recovery =	Not calculated			
Na 589.592†	144.3	4.19 ug/L	2.163	4.19 ug/L	2.163	51.66%
QC value within limits for Na 589.592		Recovery =	Not calculated			
Ni 231.604†	1.7	-0.342 ug/L	0.1279	-0.342 ug/L	0.1279	37.43%
QC value within limits for Ni 231.604		Recovery =	Not calculated			
Pb 220.353†	-1.0	0.157 ug/L	1.6544	0.157 ug/L	1.6544	>999.9%
QC value within limits for Pb 220.353		Recovery =	Not calculated			
Sb 206.836†	-0.2	-0.943 ug/L	2.4259	-0.943 ug/L	2.4259	257.39%
QC value within limits for Sb 206.836		Recovery =	Not calculated			
Se 196.026†	0.8	5.73 ug/L	2.422	5.73 ug/L	2.422	42.27%
QC value greater than the upper limit for Se 196.026		Recovery =	Not calculated			
Sn 189.927†	-0.0	1.44 ug/L	0.988	1.44 ug/L	0.988	68.77%
QC value within limits for Sn 189.927		Recovery =	Not calculated			
Sr 421.552†	82.4	0.075 ug/L	0.0132	0.075 ug/L	0.0132	17.58%
QC value within limits for Sr 421.552		Recovery =	Not calculated			
Ti 334.940†	51.8	0.060 ug/L	0.0519	0.060 ug/L	0.0519	86.51%
QC value within limits for Ti 334.940		Recovery =	Not calculated			
Tl 190.801†	1.5	0.715 ug/L	0.8964	0.715 ug/L	0.8964	125.44%
QC value within limits for Tl 190.801		Recovery =	Not calculated			
V 292.402†	0.9	-0.188 ug/L	0.2395	-0.188 ug/L	0.2395	127.59%
QC value within limits for V 292.402		Recovery =	Not calculated			
Zn 206.200†	1.8	-1.32 ug/L	0.083	-1.32 ug/L	0.083	6.31%
QC value within limits for Zn 206.200		Recovery =	Not calculated			
QC Failed. Retry.						

Sequence No.: 45
 Sample ID: CCB
 Analyst:

Autosampler Location: 1
 Date Collected: 5/9/2012 4:23:11 PM
 Data Type: Original

Initial Sample Wt:
Dilution:Initial Sample Vol:
Sample Prep Vol:-----
Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	260477.4	100 %	0.5			0.53%
Sc 361.383	2482688.1	101 %	1.0			0.98%
Ag 328.068†	112.2	0.395 ug/L	0.0352	0.395 ug/L	0.0352	8.92%
QC value within limits for Ag	328.068	Recovery =	Not calculated			
Al 308.215†	16.2	5.29 ug/L	3.193	5.29 ug/L	3.193	60.35%
QC value within limits for Al	308.215	Recovery =	Not calculated			
As 188.979†	0.6	0.914 ug/L	2.4651	0.914 ug/L	2.4651	269.65%
QC value within limits for As	188.979	Recovery =	Not calculated			
Ba 233.527†	5.6	-0.112 ug/L	0.0249	-0.112 ug/L	0.0249	22.21%
QC value within limits for Ba	233.527	Recovery =	Not calculated			
Be 234.861†	10.6	0.121 ug/L	0.0228	0.121 ug/L	0.0228	18.81%
QC value within limits for Be	234.861	Recovery =	Not calculated			
Ca 315.887†	38.7	-8.55 ug/L	0.981	-8.55 ug/L	0.981	11.48%
QC value within limits for Ca	315.887	Recovery =	Not calculated			
Cd 226.502†	-2.6	-0.130 ug/L	0.1179	-0.130 ug/L	0.1179	90.85%
QC value within limits for Cd	226.502	Recovery =	Not calculated			
Co 228.616†	3.7	0.044 ug/L	0.1940	0.044 ug/L	0.1940	441.32%
QC value within limits for Co	228.616	Recovery =	Not calculated			
Cr 267.716†	11.8	-1.05 ug/L	0.121	-1.05 ug/L	0.121	11.54%
QC value within limits for Cr	267.716	Recovery =	Not calculated			
Cu 324.752†	-103.6	-0.803 ug/L	0.0974	-0.803 ug/L	0.0974	12.13%
QC value within limits for Cu	324.752	Recovery =	Not calculated			
Fe 259.939†	123.2	3.75 ug/L	0.332	3.75 ug/L	0.332	8.86%
QC value within limits for Fe	259.939	Recovery =	Not calculated			
K 766.490†	28.9	9.18 ug/L	16.617	9.18 ug/L	16.617	181.06%
QC value within limits for K	766.490	Recovery =	Not calculated			
Mg 279.077†	32.4	-0.656 ug/L	2.8998	-0.656 ug/L	2.8998	441.80%
QC value within limits for Mg	279.077	Recovery =	Not calculated			
Mn 257.610†	82.7	-0.712 ug/L	0.0196	-0.712 ug/L	0.0196	2.75%
QC value within limits for Mn	257.610	Recovery =	Not calculated			
Mo 202.031†	-0.9	-0.061 ug/L	0.4553	-0.061 ug/L	0.4553	751.40%
QC value within limits for Mo	202.031	Recovery =	Not calculated			
Na 589.592†	22.1	-6.23 ug/L	6.401	-6.23 ug/L	6.401	102.81%
QC value within limits for Na	589.592	Recovery =	Not calculated			
Ni 231.604†	-3.4	-0.751 ug/L	0.1957	-0.751 ug/L	0.1957	26.06%
QC value within limits for Ni	231.604	Recovery =	Not calculated			
Pb 220.353†	2.7	1.89 ug/L	0.932	1.89 ug/L	0.932	49.22%
QC value within limits for Pb	220.353	Recovery =	Not calculated			
Sb 206.836†	-3.8	-2.58 ug/L	2.348	-2.58 ug/L	2.348	90.88%
QC value within limits for Sb	206.836	Recovery =	Not calculated			
Se 196.026†	-2.4	1.34 ug/L	3.271	1.34 ug/L	3.271	243.26%
QC value within limits for Se	196.026	Recovery =	Not calculated			
Sn 189.927†	0.4	1.64 ug/L	0.259	1.64 ug/L	0.259	15.78%
QC value within limits for Sn	189.927	Recovery =	Not calculated			
Sr 421.552†	87.6	0.082 ug/L	0.0361	0.082 ug/L	0.0361	43.96%
QC value within limits for Sr	421.552	Recovery =	Not calculated			
Ti 334.940†	37.2	0.036 ug/L	0.0686	0.036 ug/L	0.0686	188.15%
QC value within limits for Ti	334.940	Recovery =	Not calculated			
Tl 190.801†	3.6	2.06 ug/L	2.360	2.06 ug/L	2.360	114.30%
QC value within limits for Tl	190.801	Recovery =	Not calculated			
V 292.402†	12.5	0.041 ug/L	0.3040	0.041 ug/L	0.3040	742.23%
QC value within limits for V	292.402	Recovery =	Not calculated			
Zn 206.200†	-6.5	-1.87 ug/L	0.376	-1.87 ug/L	0.376	20.16%
QC value within limits for Zn	206.200	Recovery =	Not calculated			

All analyte(s) passed QC.

Sequence No.: 46
 Sample ID: 350584312
 Analyst:
 Initial Sample Wt:
 Dilution: 5X

Autosampler Location: 68
 Date Collected: 5/9/2012 4:29:18 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350584312

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
Sc Radial	253754.7	97.8 %		0.14			0.14%
Sc 361.383	2457664.4	99.5 %		0.42			0.42%
Ag 328.068†	-696.5	0.016 ug/L		0.2949	0.082 ug/L	1.4745	>999.9%
Al 308.215†	19382.1	7540 ug/L		27.0	37700 ug/L	135.1	0.36%
As 188.979†	44.8	33.6 ug/L		2.93	168 ug/L	14.7	8.71%
Ba 233.527†	12414.4	140 ug/L		2.1	699 ug/L	10.3	1.48%
Be 234.861†	245.3	1.35 ug/L		0.112	6.75 ug/L	0.559	8.27%
Ca 315.887†	492588.0	49100 ug/L		159.4	245000 ug/L	796.9	0.32%
Cd 226.502†	36.6	-0.063 ug/L		0.1346	-0.315 ug/L	0.6732	213.46%
Co 228.616†	803.9	26.3 ug/L		0.29	131 ug/L	1.5	1.11%
Cr 267.716†	7866.3	141 ug/L		0.7	706 ug/L	3.7	0.52%
Cu 324.752†	8867.6	27.5 ug/L		0.47	138 ug/L	2.4	1.71%
Fe 259.939†	1044913.2	64000 ug/L		218.2	320000 ug/L	1091.1	0.34%
K 766.490†	3136.5	606 ug/L		4.9	3030 ug/L	24.7	0.81%
Mg 279.077†	314677.0	22600 ug/L		91.3	113000 ug/L	456.5	0.40%
Mn 257.610†	1423888.0	1740 ug/L		5.9	8700 ug/L	29.4	0.34%
Mo 202.031†	7.5	2.95 ug/L		0.405	14.7 ug/L	2.03	13.74%
Na 589.592†	2943.0	243 ug/L		3.0	1210 ug/L	14.8	1.22%
Ni 231.604†	477.7	36.3 ug/L		0.21	182 ug/L	1.1	0.58%
Pb 220.353†	237.8	111 ug/L		1.6	557 ug/L	7.8	1.41%
Sb 206.836†	25.2	8.20 ug/L		0.456	41.0 ug/L	2.28	5.56%
Se 196.026†	-15.1	-5.87 ug/L		1.839	-29.4 ug/L	9.19	31.32%
Sn 189.927†	142.6	64.4 ug/L		0.37	322 ug/L	1.8	0.57%
Sr 421.552†	50979.6	68.2 ug/L		0.14	341 ug/L	0.7	0.20%
Ti 334.940†	222717.1	360 ug/L		1.7	1800 ug/L	8.5	0.47%
Tl 190.801†	1.6	1.92 ug/L		3.785	9.60 ug/L	18.923	197.13%
V 292.402†	5024.0	83.0 ug/L		0.81	415 ug/L	4.1	0.98%
Zn 206.200†	4716.9	313 ug/L		0.7	1560 ug/L	3.5	0.23%

Sequence No.: 47
Sample ID: 128299MB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 94
Date Collected: 5/9/2012 4:34:36 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 128299MB

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	256559.6		98.9 %	0.58			0.58%
Sc 361.383	2465364.5		99.8 %	0.37			0.37%
Ag 328.068†	-2.7		-0.241 ug/L	0.1657	-0.241 ug/L	0.1657	68.83%
Al 308.215†	8.5		2.28 ug/L	4.147	2.28 ug/L	4.147	181.82%
As 188.979†	-1.0		-0.177 ug/L	1.7023	-0.177 ug/L	1.7023	959.66%
Ba 233.527†	11.2		-0.045 ug/L	0.0693	-0.045 ug/L	0.0693	153.35%
Be 234.861†	-0.4		0.046 ug/L	0.0149	0.046 ug/L	0.0149	32.57%
Ca 315.887†	97.2		-2.72 ug/L	0.734	-2.72 ug/L	0.734	27.03%
Cd 226.502†	-2.7		-0.143 ug/L	0.1352	-0.143 ug/L	0.1352	94.25%
Co 228.616†	-3.4		-0.212 ug/L	0.2280	-0.212 ug/L	0.2280	107.31%
Cr 267.716†	10.0		-1.08 ug/L	0.025	-1.08 ug/L	0.025	2.35%
Cu 324.752†	-16.6		-0.501 ug/L	0.2656	-0.501 ug/L	0.2656	53.00%
Fe 259.939†	114.7		3.23 ug/L	0.642	3.23 ug/L	0.642	19.85%
K 766.490†	-43.2		-4.68 ug/L	9.721	-4.68 ug/L	9.721	207.65%
Mg 279.077†	54.6		0.949 ug/L	1.9049	0.949 ug/L	1.9049	200.78%
Mn 257.610†	597.2		-0.083 ug/L	0.0137	-0.083 ug/L	0.0137	16.46%
Mo 202.031†	-0.7		-0.031 ug/L	0.5290	-0.031 ug/L	0.5290	>999.9%
Na 589.592†	57.4		-3.22 ug/L	0.768	-3.22 ug/L	0.768	23.87%
Ni 231.604†	-5.6		-0.925 ug/L	0.2794	-0.925 ug/L	0.2794	30.22%
Pb 220.353†	0.7		0.944 ug/L	1.5998	0.944 ug/L	1.5998	169.44%
Sb 206.836†	0.8		-0.455 ug/L	0.5826	-0.455 ug/L	0.5826	127.96%
Se 196.026†	-0.9		3.45 ug/L	2.166	3.45 ug/L	2.166	62.84%
Sn 189.927†	9.0		5.36 ug/L	0.432	5.36 ug/L	0.432	8.05%
Sr 421.552†	-20.0		-0.062 ug/L	0.0117	-0.062 ug/L	0.0117	18.96%
Ti 334.940†	5.4		-0.015 ug/L	0.0650	-0.015 ug/L	0.0650	436.97%
Tl 190.801†	2.1		1.10 ug/L	0.356	1.10 ug/L	0.356	32.50%
V 292.402†	12.3		0.038 ug/L	0.1388	0.038 ug/L	0.1388	365.44%
Zn 206.200†	15.7		-0.381 ug/L	0.1841	-0.381 ug/L	0.1841	48.35%

User canceled analysis.

=====
Analysis Begun

Start Time: 5/9/2012 4:40:10 PM Plasma On Time: 5/9/2012 7:01:25 AM
Logged In Analyst: inorg Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N3112401 Autosampler Model: AS-93plus

Sample Information File: D:\pe\inorg\Sample Information\050912B.sif
Batch ID: 050912B
Results Data Set: 050912B-1
Results Library: d:\pe\inorg\Results\Results.mdb

=====
Sequence No.: 1 Autosampler Location: 6
Sample ID: ICV Date Collected: 5/9/2012 4:40:12 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
User canceled analysis.

=====
Analysis Begun

Start Time: 5/9/2012 4:40:30 PM Plasma On Time: 5/9/2012 7:01:25 AM
Logged In Analyst: inorg Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N3112401 Autosampler Model: AS-93plus

Sample Information File: D:\pe\inorg\Sample Information\050912B.sif
Batch ID: 050912B
Results Data Set: 050912B-1
Results Library: d:\pe\inorg\Results\Results.mdb

=====
Sequence No.: 46 Autosampler Location: 69
Sample ID: 129821MB Date Collected: 5/9/2012 4:40:31 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: 129821MB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	259190.7	99.9 %	0.92			0.92%
Sc 361.383	2505417.8	101 %	1.0			1.01%
Ag 328.068†	6.5	-0.189 ug/L	0.2105	-0.189 ug/L	0.2105	111.07%
Al 308.215†	3.0	0.135 ug/L	2.5181	0.135 ug/L	2.5181	>999.9%
As 188.979†	-2.8	-1.35 ug/L	0.532	-1.35 ug/L	0.532	39.34%
Ba 233.527†	17.0	0.023 ug/L	0.0490	0.023 ug/L	0.0490	211.86%
Be 234.861†	-0.3	0.046 ug/L	0.0145	0.046 ug/L	0.0145	31.23%
Ca 315.887†	137.0	1.24 ug/L	0.313	1.24 ug/L	0.313	25.17%
Cd 226.502†	-0.6	0.103 ug/L	0.2051	0.103 ug/L	0.2051	199.33%
Co 228.616†	-0.8	-0.119 ug/L	0.1789	-0.119 ug/L	0.1789	149.94%
Cr 267.716†	6.3	-1.15 ug/L	0.105	-1.15 ug/L	0.105	9.16%
Cu 324.752†	-66.5	-0.674 ug/L	0.2535	-0.674 ug/L	0.2535	37.59%
Fe 259.939†	174.8	6.91 ug/L	0.365	6.91 ug/L	0.365	5.29%
K 766.490†	-4.7	2.72 ug/L	16.807	2.72 ug/L	16.807	618.80%
Mg 279.077†	44.0	0.188 ug/L	1.0660	0.188 ug/L	1.0660	567.59%
Mn 257.610†	999.8	0.409 ug/L	0.0489	0.409 ug/L	0.0489	11.94%
Mo 202.031†	0.2	0.141 ug/L	0.0998	0.141 ug/L	0.0998	70.96%
Na 589.592†	56.9	-3.26 ug/L	3.455	-3.26 ug/L	3.455	106.00%
Ni 231.604†	-2.0	-0.636 ug/L	0.4027	-0.636 ug/L	0.4027	63.35%
Pb 220.353†	2.7	1.91 ug/L	1.207	1.91 ug/L	1.207	63.04%
Sb 206.836†	-0.3	-0.984 ug/L	1.6720	-0.984 ug/L	1.6720	169.94%
Se 196.026†	2.7	8.21 ug/L	7.191	8.21 ug/L	7.191	87.63%
Sn 189.927†	4.5	3.40 ug/L	0.936	3.40 ug/L	0.936	27.49%
Sr 421.552†	7.1	-0.026 ug/L	0.0688	-0.026 ug/L	0.0688	268.37%
Ti 334.940†	37.3	0.037 ug/L	0.0871	0.037 ug/L	0.0871	238.08%
Tl 190.801†	-1.2	-1.10 ug/L	0.610	-1.10 ug/L	0.610	55.40%
V 292.402†	7.8	-0.051 ug/L	0.1402	-0.051 ug/L	0.1402	273.90%
Zn 206.200†	42.5	1.41 ug/L	0.253	1.41 ug/L	0.253	17.93%

Sequence No.: 47
 Sample ID: 129822LCS
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 70
 Date Collected: 5/9/2012 4:46:44 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 129822LCS

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	247892.7	95.6 %	0.25			0.26%
Sc 361.383	2361893.1	95.6 %	0.27			0.28%
Ag 328.068†	33745.1	190 ug/L	3.0	190 ug/L	3.0	1.59%
Al 308.215†	95975.8	37300 ug/L	157.2	37300 ug/L	157.2	0.42%
As 188.979†	754.7	503 ug/L	4.4	503 ug/L	4.4	0.87%
Ba 233.527†	119422.5	1420 ug/L	22.2	1420 ug/L	22.2	1.57%
Be 234.861†	70812.9	487 ug/L	7.9	487 ug/L	7.9	1.62%
Ca 315.887†	491400.8	48900 ug/L	163.2	48900 ug/L	163.2	0.33%
Cd 226.502†	4170.0	480 ug/L	2.0	480 ug/L	2.0	0.42%
Co 228.616†	13572.5	485 ug/L	6.5	485 ug/L	6.5	1.34%
Cr 267.716†	27514.4	496 ug/L	5.5	496 ug/L	5.5	1.11%
Cu 324.752†	139727.8	484 ug/L	5.5	484 ug/L	5.5	1.13%
Fe 259.939†	819149.2	50100 ug/L	243.0	50100 ug/L	243.0	0.48%
K 766.490†	270621.2	52000 ug/L	340.3	52000 ug/L	340.3	0.65%
Mg 279.077†	680030.0	48900 ug/L	330.7	48900 ug/L	330.7	0.68%
Mn 257.610†	412139.3	503 ug/L	5.5	503 ug/L	5.5	1.10%
Mo 202.031†	2554.4	510 ug/L	3.6	510 ug/L	3.6	0.71%
Na 589.592†	593011.9	50500 ug/L	301.8	50500 ug/L	301.8	0.60%
Ni 231.604†	6181.9	492 ug/L	1.1	492 ug/L	1.1	0.23%
Pb 220.353†	1024.7	490 ug/L	4.7	490 ug/L	4.7	0.96%
Sb 206.836†	1080.1	494 ug/L	3.2	494 ug/L	3.2	0.65%
Se 196.026†	355.7	488 ug/L	5.7	488 ug/L	5.7	1.17%
Sn 189.927†	1182.8	515 ug/L	3.7	515 ug/L	3.7	0.72%
Sr 421.552†	362424.7	485 ug/L	3.3	485 ug/L	3.3	0.69%
Ti 334.940†	317978.9	514 ug/L	0.6	514 ug/L	0.6	0.11%
Tl 190.801†	741.6	487 ug/L	1.0	487 ug/L	1.0	0.20%
V 292.402†	25484.3	490 ug/L	4.6	490 ug/L	4.6	0.93%
Zn 206.200†	7412.8	495 ug/L	1.2	495 ug/L	1.2	0.23%

Sequence No.: 48
 Sample ID: 129823LCSD
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 71
 Date Collected: 5/9/2012 4:51:57 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 129823LCSD

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	247075.5	95.3 %	0.49			0.51%
Sc 361.383	2366145.0	95.8 %	0.25			0.26%
Ag 328.068†	34065.0	191 ug/L	1.6	191 ug/L	1.6	0.84%
Al 308.215†	96967.9	37700 ug/L	324.7	37700 ug/L	324.7	0.86%
As 188.979†	758.9	506 ug/L	6.7	506 ug/L	6.7	1.32%
Ba 233.527†	119716.6	1420 ug/L	9.6	1420 ug/L	9.6	0.67%
Be 234.861†	71629.9	492 ug/L	5.9	492 ug/L	5.9	1.19%
Ca 315.887†	497210.3	49500 ug/L	79.3	49500 ug/L	79.3	0.16%
Cd 226.502†	4198.6	484 ug/L	6.0	484 ug/L	6.0	1.24%
Co 228.616†	13608.4	486 ug/L	2.8	486 ug/L	2.8	0.58%
Cr 267.716†	27719.6	499 ug/L	3.0	499 ug/L	3.0	0.59%
Cu 324.752†	140444.7	486 ug/L	1.6	486 ug/L	1.6	0.33%
Fe 259.939†	829137.5	50700 ug/L	260.7	50700 ug/L	260.7	0.51%
K 766.490†	272479.3	52400 ug/L	396.2	52400 ug/L	396.2	0.76%
Mg 279.077†	689508.6	49600 ug/L	144.7	49600 ug/L	144.7	0.29%
Mn 257.610†	414906.3	507 ug/L	1.9	507 ug/L	1.9	0.37%
Mo 202.031†	2554.7	510 ug/L	1.0	510 ug/L	1.0	0.20%
Na 589.592†	596943.3	50800 ug/L	337.7	50800 ug/L	337.7	0.66%
Ni 231.604†	6202.2	493 ug/L	5.6	493 ug/L	5.6	1.13%
Pb 220.353†	1024.5	490 ug/L	3.8	490 ug/L	3.8	0.78%
Sb 206.836†	1083.7	495 ug/L	2.8	495 ug/L	2.8	0.56%
Se 196.026†	358.0	491 ug/L	2.6	491 ug/L	2.6	0.52%
Sn 189.927†	1192.5	519 ug/L	2.6	519 ug/L	2.6	0.50%
Sr 421.552†	363213.8	486 ug/L	3.5	486 ug/L	3.5	0.72%
Ti 334.940†	319872.4	517 ug/L	1.8	517 ug/L	1.8	0.36%
Tl 190.801†	750.3	493 ug/L	2.9	493 ug/L	2.9	0.58%
V 292.402†	25618.2	492 ug/L	5.2	492 ug/L	5.2	1.05%
Zn 206.200†	7455.4	497 ug/L	3.5	497 ug/L	3.5	0.70%

Sequence No.: 49
 Sample ID: 350597301
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 72
 Date Collected: 5/9/2012 4:57:11 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350597301

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	258087.4	99.5 %	0.78			0.78%
Sc 361.383	2478004.4	100 %	0.5			0.48%
Ag 328.068†	-1284.4	-0.344 ug/L	0.2209	-0.344 ug/L	0.2209	64.25%
Al 308.215†	19958.0	7760 ug/L	41.0	7760 ug/L	41.0	0.53%
As 188.979†	643.9	430 ug/L	2.9	430 ug/L	2.9	0.67%
Ba 233.527†	2320.0	13.9 ug/L	0.08	13.9 ug/L	0.08	0.59%
Be 234.861†	65.8	-0.154 ug/L	0.6042	-0.154 ug/L	0.6042	392.65%
Ca 315.887†	53353.5	5300 ug/L	10.2	5300 ug/L	10.2	0.19%
Cd 226.502†	52.4	-1.40 ug/L	0.662	-1.40 ug/L	0.662	47.41%
Co 228.616†	329.2	8.45 ug/L	0.290	8.45 ug/L	0.290	3.42%
Cr 267.716†	1406.8	25.1 ug/L	0.16	25.1 ug/L	0.16	0.62%
Cu 324.752†	1898.7	5.85 ug/L	0.284	5.85 ug/L	0.284	4.86%
Fe 259.939†	1782840.1	109000 ug/L	14.6	109000 ug/L	14.6	0.01%
K 766.490†	9472.5	1820 ug/L	29.3	1820 ug/L	29.3	1.60%
Mg 279.077†	124652.9	8960 ug/L	87.0	8960 ug/L	87.0	0.97%
Mn 257.610†	152760.5	186 ug/L	0.5	186 ug/L	0.5	0.27%
Mo 202.031†	15.8	5.55 ug/L	0.475	5.55 ug/L	0.475	8.57%
Na 589.592†	200841.4	17100 ug/L	13.0	17100 ug/L	13.0	0.08%
Ni 231.604†	57.0	1.79 ug/L	0.644	1.79 ug/L	0.644	35.98%
Pb 220.353†	28.0	8.61 ug/L	1.231	8.61 ug/L	1.231	14.29%
Sb 206.836†	10.1	0.242 ug/L	0.8083	0.242 ug/L	0.8083	333.75%
Se 196.026†	-10.9	0.220 ug/L	9.4453	0.220 ug/L	9.4453	>999.9%
Sn 189.927†	0.8	-6.73 ug/L	0.959	-6.73 ug/L	0.959	14.26%
Sr 421.552†	27729.7	37.1 ug/L	0.30	37.1 ug/L	0.30	0.81%
Ti 334.940†	38938.3	62.9 ug/L	0.33	62.9 ug/L	0.33	0.53%
Tl 190.801†	-1.1	0.512 ug/L	1.5801	0.512 ug/L	1.5801	308.53%
V 292.402†	3293.1	37.6 ug/L	0.15	37.6 ug/L	0.15	0.41%
Zn 206.200†	259.1	12.4 ug/L	0.24	12.4 ug/L	0.24	1.94%

Sequence No.: 50
 Sample ID: 350597301L
 Analyst:
 Initial Sample Wt:
 Dilution: 5X

Autosampler Location: 73
 Date Collected: 5/9/2012 5:02:29 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350597301L

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	254487.4		98.1 %	1.09			1.11%
Sc 361.383	2478644.2		100 %	1.2			1.17%
Ag 328.068†	-256.9		-0.207 ug/L	0.3371	-1.04 ug/L	1.685	162.83%
Al 308.215†	4039.8		1570 ug/L	18.7	7850 ug/L	93.7	1.19%
As 188.979†	127.3		85.4 ug/L	0.12	427 ug/L	0.6	0.14%
Ba 233.527†	485.0		2.81 ug/L	0.059	14.1 ug/L	0.30	2.11%
Be 234.861†	43.9		0.215 ug/L	0.0894	1.08 ug/L	0.447	41.52%
Ca 315.887†	11152.8		1100 ug/L	8.8	5490 ug/L	44.0	0.80%
Cd 226.502†	11.5		-0.077 ug/L	0.0896	-0.385 ug/L	0.4480	116.37%
Co 228.616†	64.7		1.56 ug/L	0.158	7.79 ug/L	0.791	10.17%
Cr 267.716†	289.2		4.16 ug/L	0.100	20.8 ug/L	0.50	2.39%
Cu 324.752†	269.2		0.432 ug/L	0.2708	2.16 ug/L	1.354	62.75%
Fe 259.939†	367421.5		22500 ug/L	60.4	112000 ug/L	302.0	0.27%
K 766.490†	1676.6		326 ug/L	22.3	1630 ug/L	111.4	6.84%
Mg 279.077†	26021.0		1870 ug/L	30.3	9340 ug/L	151.3	1.62%
Mn 257.610†	31277.0		37.4 ug/L	0.28	187 ug/L	1.4	0.75%
Mo 202.031†	1.0		0.771 ug/L	0.8731	3.85 ug/L	4.366	113.28%
Na 589.592†	40751.0		3460 ug/L	23.3	17300 ug/L	116.5	0.67%
Ni 231.604†	11.7		-0.016 ug/L	0.3028	-0.080 ug/L	1.5140	>999.9%
Pb 220.353†	7.5		3.10 ug/L	3.148	15.5 ug/L	15.74	101.49%
Sb 206.836†	0.1		-1.53 ug/L	1.600	-7.64 ug/L	8.001	104.74%
Se 196.026†	-2.4		3.52 ug/L	8.220	17.6 ug/L	41.10	233.55%
Sn 189.927†	-2.1		-1.22 ug/L	0.245	-6.12 ug/L	1.223	19.99%
Sr 421.552†	5661.3		7.55 ug/L	0.118	37.7 ug/L	0.59	1.56%
Ti 334.940†	8223.8		13.3 ug/L	0.45	66.3 ug/L	2.24	3.38%
Tl 190.801†	-0.9		-0.573 ug/L	2.2831	-2.86 ug/L	11.416	398.51%
V 292.402†	643.4		6.89 ug/L	0.182	34.4 ug/L	0.91	2.65%
Zn 206.200†	80.4		3.22 ug/L	0.237	16.1 ug/L	1.19	7.36%

Sequence No.: 51
 Sample ID: 350597302
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 74
 Date Collected: 5/9/2012 5:07:46 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350597302

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	251449.3	96.9 %	0.59			0.60%
Sc 361.383	2418547.0	97.9 %	0.47			0.48%
Ag 328.068†	31678.9	185 ug/L	1.3	185 ug/L	1.3	0.72%
Al 308.215†	121531.6	47300 ug/L	332.1	47300 ug/L	332.1	0.70%
As 188.979†	1433.0	955 ug/L	4.3	955 ug/L	4.3	0.45%
Ba 233.527†	118623.1	1390 ug/L	16.9	1390 ug/L	16.9	1.21%
Be 234.861†	70279.6	482 ug/L	5.4	482 ug/L	5.4	1.12%
Ca 315.887†	540460.3	53800 ug/L	101.0	53800 ug/L	101.0	0.19%
Cd 226.502†	4095.9	464 ug/L	4.4	464 ug/L	4.4	0.95%
Co 228.616†	13496.5	479 ug/L	1.6	479 ug/L	1.6	0.33%
Cr 267.716†	28213.6	509 ug/L	3.0	509 ug/L	3.0	0.59%
Cu 324.752†	140520.4	486 ug/L	4.4	486 ug/L	4.4	0.90%
Fe 259.939†	2609156.3	160000 ug/L	1553.8	160000 ug/L	1553.8	0.97%
K 766.490†	278800.2	53600 ug/L	334.0	53600 ug/L	334.0	0.62%
Mg 279.077†	800597.7	57600 ug/L	246.0	57600 ug/L	246.0	0.43%
Mn 257.610†	547960.7	669 ug/L	0.5	669 ug/L	0.5	0.07%
Mo 202.031†	2458.1	493 ug/L	1.2	493 ug/L	1.2	0.24%
Na 589.592†	793242.4	67500 ug/L	775.3	67500 ug/L	775.3	1.15%
Ni 231.604†	6017.6	476 ug/L	1.5	476 ug/L	1.5	0.32%
Pb 220.353†	1009.9	478 ug/L	1.9	478 ug/L	1.9	0.40%
Sb 206.836†	1032.6	468 ug/L	5.9	468 ug/L	5.9	1.26%
Se 196.026†	338.5	475 ug/L	5.4	475 ug/L	5.4	1.14%
Sn 189.927†	1139.2	488 ug/L	1.8	488 ug/L	1.8	0.36%
Sr 421.552†	384351.6	515 ug/L	1.7	515 ug/L	1.7	0.33%
Ti 334.940†	358048.5	578 ug/L	5.5	578 ug/L	5.5	0.95%
Tl 190.801†	708.2	467 ug/L	1.8	467 ug/L	1.8	0.38%
V 292.402†	28282.4	517 ug/L	5.2	517 ug/L	5.2	1.00%
Zn 206.200†	7451.2	494 ug/L	1.9	494 ug/L	1.9	0.38%

Sequence No.: 52
 Sample ID: 350597303
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 75
 Date Collected: 5/9/2012 5:13:07 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350597303

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	253337.9		97.7 %	0.96			0.98%
Sc 361.383	2414656.7		97.8 %	0.36			0.37%
Ag 328.068†	32758.8		192 ug/L	2.0	192 ug/L	2.0	1.02%
Al 308.215†	125579.2		48800 ug/L	7.5	48800 ug/L	7.5	0.02%
As 188.979†	1523.2		1020 ug/L	7.5	1020 ug/L	7.5	0.74%
Ba 233.527†	122424.5		1440 ug/L	5.8	1440 ug/L	5.8	0.41%
Be 234.861†	72424.9		497 ug/L	9.5	497 ug/L	9.5	1.91%
Ca 315.887†	554683.7		55200 ug/L	67.2	55200 ug/L	67.2	0.12%
Cd 226.502†	4236.7		480 ug/L	2.0	480 ug/L	2.0	0.42%
Co 228.616†	13959.1		495 ug/L	4.0	495 ug/L	4.0	0.82%
Cr 267.716†	29301.1		529 ug/L	4.1	529 ug/L	4.1	0.78%
Cu 324.752†	143876.0		498 ug/L	3.3	498 ug/L	3.3	0.66%
Fe 259.939†	2801786.4		171000 ug/L	815.3	171000 ug/L	815.3	0.48%
K 766.490†	286924.9		55100 ug/L	11.3	55100 ug/L	11.3	0.02%
Mg 279.077†	815112.9		58600 ug/L	846.1	58600 ug/L	846.1	1.44%
Mn 257.610†	567541.4		693 ug/L	1.1	693 ug/L	1.1	0.15%
Mo 202.031†	2554.3		512 ug/L	3.1	512 ug/L	3.1	0.60%
Na 589.592†	808335.6		68800 ug/L	310.6	68800 ug/L	310.6	0.45%
Ni 231.604†	6233.3		493 ug/L	3.6	493 ug/L	3.6	0.73%
Pb 220.353†	1038.3		491 ug/L	6.0	491 ug/L	6.0	1.22%
Sb 206.836†	1078.0		489 ug/L	2.6	489 ug/L	2.6	0.54%
Se 196.026†	347.1		488 ug/L	1.2	488 ug/L	1.2	0.25%
Sn 189.927†	1175.9		503 ug/L	4.5	503 ug/L	4.5	0.89%
Sr 421.552†	397264.8		532 ug/L	0.4	532 ug/L	0.4	0.08%
Ti 334.940†	368161.3		595 ug/L	5.0	595 ug/L	5.0	0.84%
Tl 190.801†	726.0		479 ug/L	5.6	479 ug/L	5.6	1.17%
V 292.402†	29398.9		537 ug/L	6.8	537 ug/L	6.8	1.27%
Zn 206.200†	7721.1		511 ug/L	2.6	511 ug/L	2.6	0.51%

Sequence No.: 53
 Sample ID: 350597301A
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 76
 Date Collected: 5/9/2012 5:18:27 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350597301A

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	249626.3		96.2 %	0.25			0.26%
Sc 361.383	2397518.2		97.1 %	0.85			0.88%
Ag 328.068†	36492.0		212 ug/L	2.4	212 ug/L	2.4	1.14%
Al 308.215†	125750.9		48900 ug/L	284.5	48900 ug/L	284.5	0.58%
As 188.979†	1427.5		952 ug/L	4.9	952 ug/L	4.9	0.52%
Ba 233.527†	130219.0		1530 ug/L	35.6	1530 ug/L	35.6	2.32%
Be 234.861†	78286.0		537 ug/L	3.7	537 ug/L	3.7	0.70%
Ca 315.887†	590745.9		58800 ug/L	268.8	58800 ug/L	268.8	0.46%
Cd 226.502†	4578.5		520 ug/L	7.4	520 ug/L	7.4	1.42%
Co 228.616†	15203.6		540 ug/L	6.8	540 ug/L	6.8	1.25%
Cr 267.716†	31477.8		568 ug/L	7.8	568 ug/L	7.8	1.37%
Cu 324.752†	157173.0		544 ug/L	7.0	544 ug/L	7.0	1.29%
Fe 259.939†	2592600.3		159000 ug/L	471.4	159000 ug/L	471.4	0.30%
K 766.490†	300276.8		57700 ug/L	143.5	57700 ug/L	143.5	0.25%
Mg 279.077†	828129.4		59600 ug/L	1299.6	59600 ug/L	1299.6	2.18%
Mn 257.610†	595332.6		727 ug/L	2.6	727 ug/L	2.6	0.36%
Mo 202.031†	2729.8		547 ug/L	7.3	547 ug/L	7.3	1.33%
Na 589.592†	840262.6		71600 ug/L	58.9	71600 ug/L	58.9	0.08%
Ni 231.604†	6738.3		534 ug/L	5.0	534 ug/L	5.0	0.94%
Pb 220.353†	1127.9		534 ug/L	9.1	534 ug/L	9.1	1.70%
Sb 206.836†	1146.6		521 ug/L	6.3	521 ug/L	6.3	1.22%
Se 196.026†	371.3		519 ug/L	10.9	519 ug/L	10.9	2.10%
Sn 189.927†	1244.0		534 ug/L	5.8	534 ug/L	5.8	1.08%
Sr 421.552†	423776.6		567 ug/L	1.7	567 ug/L	1.7	0.30%
Ti 334.940†	377386.4		610 ug/L	3.6	610 ug/L	3.6	0.59%
Tl 190.801†	791.1		521 ug/L	8.7	521 ug/L	8.7	1.67%
V 292.402†	31189.3		575 ug/L	8.3	575 ug/L	8.3	1.44%
Zn 206.200†	8302.7		551 ug/L	7.5	551 ug/L	7.5	1.36%

Sequence No.: 54
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 5/9/2012 5:23:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV

Table with 7 columns: Analyte, Mean Corrected Intensity, Calib. Conc. Units, Std.Dev., Sample Conc. Units, Std.Dev., RSD. Lists various elements like Sc, Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn with their respective values and recovery percentages.

Sequence No.: 55
Sample ID: CCV
Analyst:

Autosampler Location: 4
Date Collected: 5/9/2012 5:26:29 PM
Data Type: Original

Initial Sample Wt:
Dilution:

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	249822.2	96.3 %	0.98			1.01%
Sc 361.383	2433138.7	98.5 %	0.38			0.39%
Ag 328.068†	91377.8	508 ug/L	3.7	508 ug/L	3.7	0.73%
QC value within limits for Ag	328.068	Recovery = 101.53%				
Al 308.215†	47890.1	18600 ug/L	136.2	18600 ug/L	136.2	0.73%
QC value less than the lower limit for Al	308.215	Recovery = 74.51%				
As 188.979†	761.3	508 ug/L	2.6	508 ug/L	2.6	0.51%
QC value within limits for As	188.979	Recovery = 101.50%				
Ba 233.527†	41273.8	487 ug/L	5.0	487 ug/L	5.0	1.03%
QC value within limits for Ba	233.527	Recovery = 97.30%				
Be 234.861†	71776.1	493 ug/L	4.0	493 ug/L	4.0	0.82%
QC value within limits for Be	234.861	Recovery = 98.64%				
Ca 315.887†	247148.5	24600 ug/L	135.5	24600 ug/L	135.5	0.55%
QC value within limits for Ca	315.887	Recovery = 98.44%				
Cd 226.502†	4313.8	498 ug/L	11.6	498 ug/L	11.6	2.34%
QC value within limits for Cd	226.502	Recovery = 99.55%				
Co 228.616†	14198.6	508 ug/L	6.8	508 ug/L	6.8	1.34%
QC value within limits for Co	228.616	Recovery = 101.59%				
Cr 267.716†	28472.5	513 ug/L	6.2	513 ug/L	6.2	1.21%
QC value within limits for Cr	267.716	Recovery = 102.54%				
Cu 324.752†	141965.1	492 ug/L	2.4	492 ug/L	2.4	0.49%
QC value within limits for Cu	324.752	Recovery = 98.31%				
Fe 259.939†	666865.3	40800 ug/L	303.8	40800 ug/L	303.8	0.74%
QC value within limits for Fe	259.939	Recovery = 102.04%				
K 766.490†	135053.3	26000 ug/L	128.9	26000 ug/L	128.9	0.50%
QC value within limits for K	766.490	Recovery = 103.83%				
Mg 279.077†	356106.5	25600 ug/L	256.4	25600 ug/L	256.4	1.00%
QC value within limits for Mg	279.077	Recovery = 102.45%				
Mn 257.610†	422375.3	516 ug/L	3.2	516 ug/L	3.2	0.61%
QC value within limits for Mn	257.610	Recovery = 103.14%				
Mo 202.031†	2573.3	513 ug/L	2.5	513 ug/L	2.5	0.49%
QC value within limits for Mo	202.031	Recovery = 102.65%				
Na 589.592†	297378.2	25300 ug/L	197.1	25300 ug/L	197.1	0.78%
QC value within limits for Na	589.592	Recovery = 101.27%				
Ni 231.604†	6424.6	511 ug/L	4.9	511 ug/L	4.9	0.95%
QC value within limits for Ni	231.604	Recovery = 102.29%				
Pb 220.353†	1058.7	505 ug/L	3.5	505 ug/L	3.5	0.70%
QC value within limits for Pb	220.353	Recovery = 101.04%				
Sb 206.836†	1097.5	502 ug/L	4.3	502 ug/L	4.3	0.85%
QC value within limits for Sb	206.836	Recovery = 100.35%				
Se 196.026†	364.6	497 ug/L	7.8	497 ug/L	7.8	1.57%
QC value within limits for Se	196.026	Recovery = 99.37%				
Sn 189.927†	940.4	408 ug/L	0.4	408 ug/L	0.4	0.10%
QC value within limits for Sn	189.927	Recovery = 102.06%				
Sr 421.552†	307547.4	412 ug/L	6.3	412 ug/L	6.3	1.54%
QC value within limits for Sr	421.552	Recovery = 102.95%				
Ti 334.940†	249789.7	403 ug/L	1.3	403 ug/L	1.3	0.31%
QC value within limits for Ti	334.940	Recovery = 100.87%				
Tl 190.801†	774.8	509 ug/L	1.8	509 ug/L	1.8	0.36%
QC value within limits for Tl	190.801	Recovery = 101.72%				
V 292.402†	25693.9	496 ug/L	8.0	496 ug/L	8.0	1.62%
QC value within limits for V	292.402	Recovery = 99.21%				
Zn 206.200†	7735.2	517 ug/L	8.2	517 ug/L	8.2	1.58%
QC value within limits for Zn	206.200	Recovery = 103.30%				
QC Failed.	Continue with analysis.					

Sequence No.: 56
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 5/9/2012 5:31:43 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	253101.2	97.6 %	0.94			0.96%
Sc 361.383	2449756.1	99.2 %	0.47			0.48%
Ag 328.068†	57.6	0.093 ug/L	0.1729	0.093 ug/L	0.1729	185.52%
	QC value within limits for Ag	328.068	Recovery =	Not calculated		
Al 308.215†	17.3	5.72 ug/L	1.999	5.72 ug/L	1.999	34.95%
	QC value within limits for Al	308.215	Recovery =	Not calculated		
As 188.979†	0.2	0.632 ug/L	1.0096	0.632 ug/L	1.0096	159.86%
	QC value within limits for As	188.979	Recovery =	Not calculated		
Ba 233.527†	11.8	-0.039 ug/L	0.1210	-0.039 ug/L	0.1210	310.10%
	QC value within limits for Ba	233.527	Recovery =	Not calculated		
Be 234.861†	11.4	0.127 ug/L	0.0197	0.127 ug/L	0.0197	15.49%
	QC value within limits for Be	234.861	Recovery =	Not calculated		
Ca 315.887†	78.0	-4.64 ug/L	2.166	-4.64 ug/L	2.166	46.72%
	QC value within limits for Ca	315.887	Recovery =	Not calculated		
Cd 226.502†	-1.1	0.034 ug/L	0.3750	0.034 ug/L	0.3750	>999.9%
	QC value within limits for Cd	226.502	Recovery =	Not calculated		
Co 228.616†	1.9	-0.022 ug/L	0.0629	-0.022 ug/L	0.0629	288.98%
	QC value within limits for Co	228.616	Recovery =	Not calculated		
Cr 267.716†	12.3	-1.04 ug/L	0.070	-1.04 ug/L	0.070	6.74%
	QC value within limits for Cr	267.716	Recovery =	Not calculated		
Cu 324.752†	-109.9	-0.824 ug/L	0.2117	-0.824 ug/L	0.2117	25.70%
	QC value within limits for Cu	324.752	Recovery =	Not calculated		
Fe 259.939†	247.7	11.4 ug/L	1.92	11.4 ug/L	1.92	16.84%
	QC value within limits for Fe	259.939	Recovery =	Not calculated		
K 766.490†	89.9	20.9 ug/L	19.80	20.9 ug/L	19.80	94.81%
	QC value within limits for K	766.490	Recovery =	Not calculated		
Mg 279.077†	73.3	2.28 ug/L	2.417	2.28 ug/L	2.417	105.78%
	QC value within limits for Mg	279.077	Recovery =	Not calculated		
Mn 257.610†	60.9	-0.739 ug/L	0.0295	-0.739 ug/L	0.0295	4.00%
	QC value within limits for Mn	257.610	Recovery =	Not calculated		
Mo 202.031†	-0.9	-0.076 ug/L	0.5587	-0.076 ug/L	0.5587	738.70%
	QC value within limits for Mo	202.031	Recovery =	Not calculated		
Na 589.592†	198.8	8.83 ug/L	2.059	8.83 ug/L	2.059	23.34%
	QC value within limits for Na	589.592	Recovery =	Not calculated		
Ni 231.604†	-3.4	-0.753 ug/L	0.1937	-0.753 ug/L	0.1937	25.73%
	QC value within limits for Ni	231.604	Recovery =	Not calculated		
Pb 220.353†	5.7	3.34 ug/L	2.054	3.34 ug/L	2.054	61.45%
	QC value within limits for Pb	220.353	Recovery =	Not calculated		
Sb 206.836†	-1.3	-1.44 ug/L	0.528	-1.44 ug/L	0.528	36.67%
	QC value within limits for Sb	206.836	Recovery =	Not calculated		
Se 196.026†	-0.7	3.66 ug/L	3.773	3.66 ug/L	3.773	103.17%
	QC value within limits for Se	196.026	Recovery =	Not calculated		
Sn 189.927†	0.9	1.82 ug/L	0.498	1.82 ug/L	0.498	27.30%
	QC value within limits for Sn	189.927	Recovery =	Not calculated		
Sr 421.552†	80.0	0.072 ug/L	0.0142	0.072 ug/L	0.0142	19.72%
	QC value within limits for Sr	421.552	Recovery =	Not calculated		
Ti 334.940†	36.8	0.036 ug/L	0.0119	0.036 ug/L	0.0119	33.33%
	QC value within limits for Ti	334.940	Recovery =	Not calculated		
Tl 190.801†	0.5	0.013 ug/L	1.3438	0.013 ug/L	1.3438	>999.9%
	QC value within limits for Tl	190.801	Recovery =	Not calculated		
V 292.402†	11.7	0.025 ug/L	0.0638	0.025 ug/L	0.0638	256.13%
	QC value within limits for V	292.402	Recovery =	Not calculated		
Zn 206.200†	-2.9	-1.63 ug/L	0.092	-1.63 ug/L	0.092	5.66%
	QC value within limits for Zn	206.200	Recovery =	Not calculated		

All analyte(s) passed QC.

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Sequence No.: 1                               Autosampler Location: 1
Sample ID: STD1-Blank                         Date Collected: 5/10/2012 10:52:48 AM
Analyst:                                       Data Type: Reprocessed on 5/10/2012 12:11:47 PM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
=====

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Mean Data: STD1-Blank

Analyte	Mean Corrected		RSD		Calib
	Intensity	Std.Dev.	RSD	Conc.	Units
Sc Radial	250997.7	1805.33	0.72%	100	%
Sc 361.383	2502996.6	6326.86	0.25%	100	%
Ag 328.068†	-156.4	27.87	17.82%	[0.00]	ug/L
Al 308.215†	34.7	7.95	22.91%	[0.00]	ug/L
As 188.979†	-12.2	3.40	27.72%	[0.00]	ug/L
Ba 233.527†	-19.4	2.22	11.47%	[0.00]	ug/L
Be 234.861†	-148.8	2.79	1.88%	[0.00]	ug/L
Ca 315.887†	-549.2	10.16	1.85%	[0.00]	ug/L
Cd 226.502†	-28.9	0.87	3.02%	[0.00]	ug/L
Co 228.616†	-80.2	1.70	2.12%	[0.00]	ug/L
Cr 267.716†	84.5	7.11	8.42%	[0.00]	ug/L
Cu 324.752†	2100.0	31.06	1.48%	[0.00]	ug/L
Fe 259.939†	135.5	2.93	2.16%	[0.00]	ug/L
K 766.490†	-2226.5	147.73	6.63%	[0.00]	ug/L
Mg 279.077†	57.3	12.47	21.75%	[0.00]	ug/L
Mn 257.610†	307.6	20.91	6.80%	[0.00]	ug/L
Mo 202.031†	-15.9	2.32	14.55%	[0.00]	ug/L
Na 589.592†	1120.9	54.68	4.88%	[0.00]	ug/L
Ni 231.604†	-116.4	6.84	5.88%	[0.00]	ug/L
Pb 220.353†	22.1	1.79	8.11%	[0.00]	ug/L
Sb 206.836†	34.8	5.21	14.98%	[0.00]	ug/L
Se 196.026†	-5.2	4.38	84.22%	[0.00]	ug/L
Sn 189.927†	2.1	1.10	52.62%	[0.00]	ug/L
Sr 421.552†	221.5	27.37	12.35%	[0.00]	ug/L
Ti 334.940†	-197.9	56.84	28.73%	[0.00]	ug/L
Tl 190.801†	-17.6	0.54	3.08%	[0.00]	ug/L
V 292.402†	63.0	3.74	5.93%	[0.00]	ug/L
Zn 206.200†	-1.4	3.86	268.88%	[0.00]	ug/L

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=====
Sequence No.: 2                               Autosampler Location: 14
Sample ID: Calib Std 1Maj                     Date Collected: 5/10/2012 10:58:56 AM
Analyst:                                       Data Type: Reprocessed on 5/10/2012 12:12:18 PM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
=====

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Mean Data: Calib Std 1Maj

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc Radial	253815.7	2896.24	1.14%	101 %
Sc 361.383	2527526.6	17069.61	0.68%	101 %
Al 308.215†	48.7	5.31	10.90%	[25] ug/L
Ba 233.527†	39.7	1.37	3.44%	[0.5] ug/L
Be 234.861†	70.1	4.75	6.78%	[0.5] ug/L
Ca 315.887†	369.4	8.54	2.31%	[25] ug/L
Cd 226.502†	4.3	3.20	74.87%	[0.5] ug/L
Co 228.616†	13.5	5.16	38.10%	[0.5] ug/L
Fe 259.939†	632.7	8.70	1.37%	[40] ug/L
K 766.490†	211.6	40.09	18.94%	[25] ug/L
Mg 279.077†	381.3	4.70	1.23%	[25] ug/L
Na 589.592†	278.0	24.95	8.97%	[25] ug/L
Sr 421.552†	298.7	12.71	4.26%	[0.4] ug/L
Ti 334.940†	280.5	39.54	14.10%	[0.4] ug/L
V 292.402†	27.5	3.77	13.71%	[0.5] ug/L

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=====
Sequence No.: 3                               Autosampler Location: 2
Sample ID: Calib Std 1                       Date Collected: 5/10/2012 11:05:04 AM
Analyst:                                     Data Type: Reprocessed on 5/10/2012 12:12:19 PM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                           Initial Sample Vol:
Dilution:                                   Sample Prep Vol:
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Mean Data: Calib Std 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc Radial	255219.6	961.33	0.38%	102 %
Sc 361.383	2541626.7	9138.80	0.36%	102 %
Ag 328.068†	901.8	72.65	8.06%	[5] ug/L
Al 308.215†	461.5	3.02	0.65%	[250] ug/L
As 188.979†	6.6	1.15	17.45%	[5] ug/L
Ba 233.527†	441.2	7.46	1.69%	[5] ug/L
Be 234.861†	734.4	20.71	2.82%	[5] ug/L
Ca 315.887†	2469.5	16.15	0.65%	[250] ug/L
Cd 226.502†	44.6	1.73	3.86%	[5] ug/L
Co 228.616†	142.4	4.55	3.19%	[5] ug/L
Cr 267.716†	276.9	6.11	2.21%	[5] ug/L
Cu 324.752†	1438.9	21.29	1.48%	[5] ug/L
Fe 259.939†	6582.9	34.03	0.52%	[400] ug/L
K 766.490†	1358.8	139.83	10.29%	[250] ug/L
Mg 279.077†	3421.2	33.75	0.99%	[250] ug/L
Mn 257.610†	4199.0	77.12	1.84%	[5] ug/L
Mo 202.031†	26.1	2.99	11.46%	[5] ug/L
Na 589.592†	2674.2	11.90	0.45%	[250] ug/L
Ni 231.604†	66.9	2.43	3.63%	[5] ug/L
Pb 220.353†	12.0	3.05	25.39%	[5] ug/L
Sb 206.836†	7.6	3.89	51.33%	[5] ug/L
Se 196.026†	1.2	3.81	306.76%	[5] ug/L
Sn 189.927†	4.5	2.39	52.98%	[4] ug/L
Sr 421.552†	2853.8	26.72	0.94%	[4] ug/L
Ti 334.940†	2417.5	32.94	1.36%	[4] ug/L
Tl 190.801†	9.1	1.80	19.72%	[5] ug/L
V 292.402†	248.6	42.91	17.26%	[5] ug/L
Zn 206.200†	84.4	3.80	4.51%	[5] ug/L

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=====
Sequence No.: 4                               Autosampler Location: 3
Sample ID: Calib Std 2                       Date Collected: 5/10/2012 11:11:13 AM
Analyst:                                     Data Type: Reprocessed on 5/10/2012 12:12:20 PM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                           Initial Sample Vol:
Dilution:                                   Sample Prep Vol:
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Mean Data: Calib Std 2

Analyte	Mean Corrected			RSD	Calib	
	Intensity	Std.Dev.	Conc.		Units	
Sc Radial	252638.6	3123.33	1.24%	101	%	
Sc 361.383	2522445.3	23213.87	0.92%	101	%	
Ag 328.068†	8972.9	90.05	1.00%	[50]	ug/L	
Al 308.215†	4423.5	51.29	1.16%	[2500]	ug/L	
As 188.979†	70.8	3.84	5.43%	[50]	ug/L	
Ba 233.527†	4566.2	53.85	1.18%	[50]	ug/L	
Be 234.861†	7688.9	56.30	0.73%	[50]	ug/L	
Ca 315.887†	23706.6	317.45	1.34%	[2500]	ug/L	
Cd 226.502†	463.1	8.99	1.94%	[50]	ug/L	
Co 228.616†	1453.7	15.58	1.07%	[50]	ug/L	
Cr 267.716†	2796.2	32.67	1.17%	[50]	ug/L	
Cu 324.752†	14678.6	203.11	1.38%	[50]	ug/L	
Fe 259.939†	64203.7	957.01	1.49%	[4000]	ug/L	
K 766.490†	12811.7	126.34	0.99%	[2500]	ug/L	
Mg 279.077†	34538.9	274.67	0.80%	[2500]	ug/L	
Mn 257.610†	42045.9	236.76	0.56%	[50]	ug/L	
Mo 202.031†	248.4	1.90	0.77%	[50]	ug/L	
Na 589.592†	28497.6	193.54	0.68%	[2500]	ug/L	
Ni 231.604†	652.9	9.70	1.49%	[50]	ug/L	
Pb 220.353†	111.8	2.64	2.36%	[50]	ug/L	
Sb 206.836†	108.7	4.35	4.00%	[50]	ug/L	
Se 196.026†	36.0	4.59	12.74%	[50]	ug/L	
Sn 189.927†	85.7	1.98	2.31%	[40]	ug/L	
Sr 421.552†	29147.2	176.21	0.60%	[40]	ug/L	
Ti 334.940†	24827.2	173.59	0.70%	[40]	ug/L	
Tl 190.801†	82.4	0.90	1.09%	[50]	ug/L	
V 292.402†	2647.5	11.86	0.45%	[50]	ug/L	
Zn 206.200†	790.5	7.02	0.89%	[50]	ug/L	

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Sequence No.: 5                               Autosampler Location: 4
Sample ID: Calib Std 3                       Date Collected: 5/10/2012 11:16:28 AM
Analyst:                                     Data Type: Reprocessed on 5/10/2012 12:12:21 PM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                           Initial Sample Vol:
Dilution:                                    Sample Prep Vol:
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Mean Data: Calib Std 3

Analyte	Mean Corrected		RSD	Calib	
	Intensity	Std.Dev.		Conc.	Units
Sc Radial	251091.3	2067.14	0.82%	100	%
Sc 361.383	2489576.0	9751.56	0.39%	99.5	%
Ag 328.068†	88674.8	568.81	0.64%	[500]	ug/L
Al 308.215†	43489.0	157.22	0.36%	[25000]	ug/L
As 188.979†	716.1	2.30	0.32%	[500]	ug/L
Ba 233.527†	43571.3	471.40	1.08%	[500]	ug/L
Be 234.861†	76101.9	1021.34	1.34%	[500]	ug/L
Ca 315.887†	230594.9	188.99	0.08%	[25000]	ug/L
Cd 226.502†	4470.3	69.92	1.56%	[500]	ug/L
Co 228.616†	14009.5	159.83	1.14%	[500]	ug/L
Cr 267.716†	27237.2	343.71	1.26%	[500]	ug/L
Cu 324.752†	143528.9	676.80	0.47%	[500]	ug/L
Fe 259.939†	620669.4	1147.52	0.18%	[40000]	ug/L
K 766.490†	127623.1	564.57	0.44%	[25000]	ug/L
Mg 279.077†	334311.4	2907.85	0.87%	[25000]	ug/L
Mn 257.610†	402467.4	1611.16	0.40%	[500]	ug/L
Mo 202.031†	2417.9	14.88	0.62%	[500]	ug/L
Na 589.592†	282088.2	1403.18	0.50%	[25000]	ug/L
Ni 231.604†	6318.6	53.21	0.84%	[500]	ug/L
Pb 220.353†	1053.0	6.03	0.57%	[500]	ug/L
Sb 206.836†	1064.2	7.92	0.74%	[500]	ug/L
Se 196.026†	366.6	3.01	0.82%	[500]	ug/L
Sn 189.927†	900.1	3.43	0.38%	[400]	ug/L
Sr 421.552†	284783.7	5074.55	1.78%	[400]	ug/L
Ti 334.940†	245855.2	414.31	0.17%	[400]	ug/L
Tl 190.801†	781.1	4.26	0.55%	[500]	ug/L
V 292.402†	26002.7	349.95	1.35%	[500]	ug/L
Zn 206.200†	7668.3	115.59	1.51%	[500]	ug/L

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Sequence No.: 6                               Autosampler Location: 9
Sample ID: Calib Std 4                       Date Collected: 5/10/2012 11:21:48 AM
Analyst:                                     Data Type: Reprocessed on 5/10/2012 12:12:22 PM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                           Initial Sample Vol:
Dilution:                                   Sample Prep Vol:
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Mean Data: Calib Std 4

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
Sc Radial	233472.9	2333.89	1.00%	93.0	%
Sc 361.383	2257230.1	5000.35	0.22%	90.2	%
Al 308.215†	456628.4	2906.44	0.64%	[250000]	ug/L
As 188.979†	7198.0	20.46	0.28%	[5000]	ug/L
Ba 233.527†	420132.6	3747.69	0.89%	[5000]	ug/L
Be 234.861†	781605.6	4289.31	0.55%	[5000]	ug/L
Ca 315.887†	2292513.1	12303.09	0.54%	[250000]	ug/L
Cd 226.502†	41151.3	255.61	0.62%	[5000]	ug/L
Co 228.616†	129691.3	498.76	0.38%	[5000]	ug/L
Cr 267.716†	259760.7	730.29	0.28%	[5000]	ug/L
Cu 324.752†	1500391.9	5569.48	0.37%	[5000]	ug/L
Fe 259.939†	5722299.7	27107.05	0.47%	[400000]	ug/L
K 766.490†	1378566.0	8106.38	0.59%	[250000]	ug/L
Mg 279.077†	3198611.2	29139.08	0.91%	[250000]	ug/L
Mn 257.610†	3784163.7	7353.85	0.19%	[5000]	ug/L
Mo 202.031†	23196.4	145.88	0.63%	[5000]	ug/L
Na 589.592†	2979552.3	15076.16	0.51%	[250000]	ug/L
Ni 231.604†	57137.5	120.43	0.21%	[5000]	ug/L
Pb 220.353†	9717.2	63.59	0.65%	[5000]	ug/L
Sb 206.836†	10775.5	46.30	0.43%	[5000]	ug/L
Se 196.026†	3709.2	23.18	0.63%	[5000]	ug/L
Sn 189.927†	8568.1	28.45	0.33%	[4000]	ug/L
Sr 421.552†	2869760.5	18367.64	0.64%	[4000]	ug/L
Ti 334.940†	2433350.4	4631.47	0.19%	[4000]	ug/L
Tl 190.801†	7031.6	66.65	0.95%	[5000]	ug/L
V 292.402†	254223.5	316.72	0.12%	[5000]	ug/L
Zn 206.200†	69704.1	353.84	0.51%	[5000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Wt. Lin	11.0	178.2	0.00000	0.999984	
Al 308.215	5	Wt. Lin	4.1	1.790	0.00000	0.999753	
As 188.979	4	Wt. Lin	-0.6	1.434	0.00000	0.999994	
Ba 233.527	5	Wt. Lin	-4.1	87.87	0.00000	0.999499	
Be 234.861	5	Wt. Lin	-6.5	152.8	0.00000	0.999799	
Ca 315.887	5	Wt. Lin	137.5	9.284	0.00000	0.999939	
Cd 226.502	5	Wt. Lin	-0.1	8.844	0.00000	0.999026	
Co 228.616	5	Wt. Lin	-0.4	27.88	0.00000	0.999032	
Cr 267.716	4	Wt. Lin	7.8	54.00	0.00000	0.999533	
Cu 324.752	4	Wt. Lin	-30.2	293.8	0.00000	0.999824	
Fe 259.939	5	Wt. Lin	14.4	15.55	0.00000	0.998599	
K 766.490	5	Wt. Lin	81.2	5.207	0.00000	0.999376	
Mg 279.077	5	Wt. Lin	47.8	13.36	0.00000	0.999608	
Mn 257.610	4	Wt. Lin	228.8	797.9	0.00000	0.999089	
Mo 202.031	4	Wt. Lin	2.2	4.794	0.00000	0.999666	
Na 589.592	5	Wt. Lin	-7.2	11.35	0.00000	0.999257	
Ni 231.604	4	Wt. Lin	5.7	12.31	0.00000	0.998476	
Pb 220.353	4	Wt. Lin	1.7	2.078	0.00000	0.998571	
Sb 206.836	4	Wt. Lin	-3.3	2.174	0.00000	0.999771	
Se 196.026	4	Wt. Lin	-2.5	0.7498	0.00000	0.999797	
Sn 189.927	4	Wt. Lin	-4.3	2.217	0.00000	0.999687	
Sr 421.552	5	Wt. Lin	11.5	717.2	0.00000	0.999949	
Ti 334.940	5	Wt. Lin	36.0	609.8	0.00000	0.999881	
Tl 190.801	4	Wt. Lin	1.6	1.524	0.00000	0.998168	
V 292.402	5	Wt. Lin	1.7	51.33	0.00000	0.999647	
Zn 206.200	4	Wt. Lin	10.1	14.93	0.00000	0.998713	

Sequence No.: 7

Autosampler Location: 6

Sample ID: ICV

Date Collected: 5/10/2012 11:26:36 AM

Analyst:

Data Type: Reprocessed on 5/10/2012 12:12:23 PM

Logged In Analyst (Original) : inorg

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	246908.6	98.4 %	0.63			0.64%
Sc 361.383	2435713.7	97.3 %	0.60			0.62%
Ag 328.068†	28841.5	164 ug/L	0.5	164 ug/L	0.5	0.27%
QC value within limits for Ag	328.068	Recovery = 102.74%				
Al 308.215†	72415.9	40500 ug/L	148.6	40500 ug/L	148.6	0.37%
QC value within limits for Al	308.215	Recovery = 101.15%				
As 188.979†	590.9	417 ug/L	4.1	417 ug/L	4.1	0.99%
QC value within limits for As	188.979	Recovery = 104.23%				
Ba 233.527†	105997.8	1200 ug/L	13.1	1200 ug/L	13.1	1.09%
QC value within limits for Ba	233.527	Recovery = 100.10%				
Be 234.861†	66009.4	431 ug/L	0.9	431 ug/L	0.9	0.21%
QC value within limits for Be	234.861	Recovery = 107.79%				
Ca 315.887†	381836.4	41100 ug/L	76.3	41100 ug/L	76.3	0.19%
QC value within limits for Ca	315.887	Recovery = 102.78%				
Cd 226.502†	3706.9	416 ug/L	3.6	416 ug/L	3.6	0.87%
QC value within limits for Cd	226.502	Recovery = 104.07%				
Co 228.616†	11458.8	409 ug/L	1.5	409 ug/L	1.5	0.38%
QC value within limits for Co	228.616	Recovery = 102.24%				
Cr 267.716†	22613.4	419 ug/L	1.0	419 ug/L	1.0	0.23%
QC value within limits for Cr	267.716	Recovery = 104.79%				
Cu 324.752†	122193.8	415 ug/L	0.8	415 ug/L	0.8	0.19%
QC value within limits for Cu	324.752	Recovery = 103.74%				
Fe 259.939†	638976.0	41100 ug/L	134.1	41100 ug/L	134.1	0.33%
QC value within limits for Fe	259.939	Recovery = 102.73%				
K 766.490†	213297.3	40900 ug/L	136.3	40900 ug/L	136.3	0.33%
QC value within limits for K	766.490	Recovery = 102.36%				
Mg 279.077†	536824.4	40200 ug/L	379.0	40200 ug/L	379.0	0.94%
QC value within limits for Mg	279.077	Recovery = 100.46%				
Mn 257.610†	338164.8	423 ug/L	2.0	423 ug/L	2.0	0.46%
QC value within limits for Mn	257.610	Recovery = 105.87%				
Mo 202.031†	2019.3	422 ug/L	2.1	422 ug/L	2.1	0.51%
QC value within limits for Mo	202.031	Recovery = 105.41%				
Na 589.592†	469462.4	41400 ug/L	158.4	41400 ug/L	158.4	0.38%
QC value within limits for Na	589.592	Recovery = 103.43%				
Ni 231.604†	5213.9	422 ug/L	1.4	422 ug/L	1.4	0.34%
QC value within limits for Ni	231.604	Recovery = 105.55%				
Pb 220.353†	878.3	423 ug/L	2.8	423 ug/L	2.8	0.65%
QC value within limits for Pb	220.353	Recovery = 105.70%				
Sb 206.836†	859.4	391 ug/L	4.6	391 ug/L	4.6	1.18%
QC value within limits for Sb	206.836	Recovery = 97.78%				
Se 196.026†	302.2	414 ug/L	5.2	414 ug/L	5.2	1.25%
QC value within limits for Se	196.026	Recovery = 103.44%				
Sn 189.927†	941.4	429 ug/L	2.7	429 ug/L	2.7	0.62%
QC value within limits for Sn	189.927	Recovery = 107.37%				
Sr 421.552†	292844.7	408 ug/L	1.3	408 ug/L	1.3	0.32%
QC value within limits for Sr	421.552	Recovery = 102.07%				
Ti 334.940†	263106.2	431 ug/L	1.7	431 ug/L	1.7	0.38%
QC value within limits for Ti	334.940	Recovery = 107.84%				
Tl 190.801†	655.1	426 ug/L	3.6	426 ug/L	3.6	0.85%
QC value within limits for Tl	190.801	Recovery = 106.62%				
V 292.402†	22129.8	422 ug/L	3.7	422 ug/L	3.7	0.88%
QC value within limits for V	292.402	Recovery = 105.55%				
Zn 206.200†	6334.8	425 ug/L	1.9	425 ug/L	1.9	0.46%
QC value within limits for Zn	206.200	Recovery = 106.29%				

All analyte(s) passed QC.

Sequence No.: 8

Autosampler Location: 1

Sample ID: ICB

Date Collected: 5/10/2012 11:31:47 AM

Analyst:

Data Type: Reprocessed on 5/10/2012 12:12:31 PM

Logged In Analyst (Original) : inorg

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	250463.1	99.8 %	1.33			1.33%
Sc 361.383	2567984.0	103 %	0.7			0.71%
Ag 328.068†	16.4	0.032 ug/L	0.1421	0.032 ug/L	0.1421	448.55%
QC value within limits for Ag	328.068	Recovery =	Not calculated			
Al 308.215†	18.5	8.04 ug/L	1.672	8.04 ug/L	1.672	20.80%
QC value within limits for Al	308.215	Recovery =	Not calculated			
As 188.979†	0.9	1.03 ug/L	1.163	1.03 ug/L	1.163	112.91%
QC value within limits for As	188.979	Recovery =	Not calculated			
Ba 233.527†	24.8	0.327 ug/L	0.0526	0.327 ug/L	0.0526	16.11%
QC value within limits for Ba	233.527	Recovery =	Not calculated			
Be 234.861†	40.0	0.304 ug/L	0.0253	0.304 ug/L	0.0253	8.34%
QC value within limits for Be	234.861	Recovery =	Not calculated			
Ca 315.887†	170.5	3.55 ug/L	1.540	3.55 ug/L	1.540	43.33%
QC value within limits for Ca	315.887	Recovery =	Not calculated			
Cd 226.502†	5.7	0.659 ug/L	0.0192	0.659 ug/L	0.0192	2.91%
QC value within limits for Cd	226.502	Recovery =	Not calculated			
Co 228.616†	9.1	0.337 ug/L	0.0476	0.337 ug/L	0.0476	14.11%
QC value within limits for Co	228.616	Recovery =	Not calculated			
Cr 267.716†	6.9	-0.016 ug/L	0.0993	-0.016 ug/L	0.0993	621.42%
QC value within limits for Cr	267.716	Recovery =	Not calculated			
Cu 324.752†	15.7	0.155 ug/L	0.1884	0.155 ug/L	0.1884	121.14%
QC value within limits for Cu	324.752	Recovery =	Not calculated			
Fe 259.939†	375.5	23.2 ug/L	1.43	23.2 ug/L	1.43	6.15%
QC value within limits for Fe	259.939	Recovery =	Not calculated			
K 766.490†	492.2	78.9 ug/L	6.05	78.9 ug/L	6.05	7.66%
QC value within limits for K	766.490	Recovery =	Not calculated			
Mg 279.077†	219.0	12.8 ug/L	0.65	12.8 ug/L	0.65	5.07%
QC value within limits for Mg	279.077	Recovery =	Not calculated			
Mn 257.610†	93.5	-0.169 ug/L	0.0332	-0.169 ug/L	0.0332	19.61%
QC value within limits for Mn	257.610	Recovery =	Not calculated			
Mo 202.031†	6.7	0.937 ug/L	0.3726	0.937 ug/L	0.3726	39.77%
QC value within limits for Mo	202.031	Recovery =	Not calculated			
Na 589.592†	306.3	27.6 ug/L	0.77	27.6 ug/L	0.77	2.80%
QC value within limits for Na	589.592	Recovery =	Not calculated			
Ni 231.604†	4.6	-0.095 ug/L	0.4571	-0.095 ug/L	0.4571	479.76%
QC value within limits for Ni	231.604	Recovery =	Not calculated			
Pb 220.353†	2.8	0.526 ug/L	2.4013	0.526 ug/L	2.4013	456.75%
QC value within limits for Pb	220.353	Recovery =	Not calculated			
Sb 206.836†	-2.9	0.178 ug/L	1.3436	0.178 ug/L	1.3436	754.66%
QC value within limits for Sb	206.836	Recovery =	Not calculated			
Se 196.026†	0.1	3.47 ug/L	4.626	3.47 ug/L	4.626	133.49%
QC value within limits for Se	196.026	Recovery =	Not calculated			
Sn 189.927†	0.8	2.32 ug/L	0.621	2.32 ug/L	0.621	26.83%
QC value within limits for Sn	189.927	Recovery =	Not calculated			
Sr 421.552†	177.1	0.231 ug/L	0.0105	0.231 ug/L	0.0105	4.54%
QC value within limits for Sr	421.552	Recovery =	Not calculated			
Ti 334.940†	103.4	0.111 ug/L	0.0543	0.111 ug/L	0.0543	49.12%
QC value within limits for Ti	334.940	Recovery =	Not calculated			
Tl 190.801†	4.6	1.98 ug/L	1.244	1.98 ug/L	1.244	62.97%
QC value within limits for Tl	190.801	Recovery =	Not calculated			
V 292.402†	6.0	0.079 ug/L	0.1720	0.079 ug/L	0.1720	218.32%
QC value within limits for V	292.402	Recovery =	Not calculated			
Zn 206.200†	1.4	-0.581 ug/L	0.1372	-0.581 ug/L	0.1372	23.62%
QC value within limits for Zn	206.200	Recovery =	Not calculated			

All analyte(s) passed QC.

Sequence No.: 9

Autosampler Location: 5

Sample ID: AFCEE CRI

Date Collected: 5/10/2012 11:37:56 AM

Analyst:

Data Type: Reprocessed on 5/10/2012 12:12:32 PM

Logged In Analyst (Original) : inorg

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: AFCEE CRI

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	254667.5	101 %	0.1			0.10%
Sc 361.383	2510059.4	100 %	0.5			0.46%
Ag 328.068†	1696.7	9.46 ug/L	0.197	9.46 ug/L	0.197	2.08%
QC value within limits for Ag	328.068	Recovery = 94.61%				
Al 308.215†	353.8	195 ug/L	2.1	195 ug/L	2.1	1.05%
QC value within limits for Al	308.215	Recovery = 97.74%				
As 188.979†	46.1	32.6 ug/L	3.33	32.6 ug/L	3.33	10.21%
QC value within limits for As	188.979	Recovery = 108.78%				
Ba 233.527†	866.4	9.90 ug/L	0.035	9.90 ug/L	0.035	0.35%
QC value within limits for Ba	233.527	Recovery = 99.00%				
Be 234.861†	610.5	4.04 ug/L	0.005	4.04 ug/L	0.005	0.13%
QC value within limits for Be	234.861	Recovery = 80.75%				
Ca 315.887†	9168.0	973 ug/L	4.5	973 ug/L	4.5	0.46%
QC value within limits for Ca	315.887	Recovery = 97.26%				
Cd 226.502†	46.6	5.28 ug/L	0.134	5.28 ug/L	0.134	2.54%
QC value within limits for Cd	226.502	Recovery = 105.69%				
Co 228.616†	286.9	10.3 ug/L	0.03	10.3 ug/L	0.03	0.34%
QC value within limits for Co	228.616	Recovery = 102.90%				
Cr 267.716†	545.3	9.96 ug/L	0.231	9.96 ug/L	0.231	2.32%
QC value within limits for Cr	267.716	Recovery = 99.58%				
Cu 324.752†	2881.9	9.86 ug/L	0.105	9.86 ug/L	0.105	1.07%
QC value within limits for Cu	324.752	Recovery = 98.58%				
Fe 259.939†	876.3	55.4 ug/L	0.32	55.4 ug/L	0.32	0.58%
QC value within limits for Fe	259.939	Recovery = 110.85%				
K 766.490†	5290.3	1000 ug/L	16.2	1000 ug/L	16.2	1.62%
QC value within limits for K	766.490	Recovery = 100.03%				
Mg 279.077†	13163.1	982 ug/L	6.3	982 ug/L	6.3	0.65%
QC value within limits for Mg	279.077	Recovery = 98.18%				
Mn 257.610†	8298.7	10.1 ug/L	0.08	10.1 ug/L	0.08	0.82%
QC value within limits for Mn	257.610	Recovery = 101.14%				
Mo 202.031†	76.8	15.6 ug/L	0.35	15.6 ug/L	0.35	2.27%
QC value within limits for Mo	202.031	Recovery = 103.72%				
Na 589.592†	11071.1	976 ug/L	8.0	976 ug/L	8.0	0.82%
QC value within limits for Na	589.592	Recovery = 97.63%				
Ni 231.604†	255.1	20.2 ug/L	0.05	20.2 ug/L	0.05	0.27%
QC value within limits for Ni	231.604	Recovery = 101.12%				
Pb 220.353†	54.9	25.6 ug/L	1.42	25.6 ug/L	1.42	5.55%
QC value within limits for Pb	220.353	Recovery = 102.57%				
Sb 206.836†	104.9	49.6 ug/L	0.04	49.6 ug/L	0.04	0.08%
QC value within limits for Sb	206.836	Recovery = 99.29%				
Se 196.026†	22.3	33.2 ug/L	3.20	33.2 ug/L	3.20	9.64%
QC value within limits for Se	196.026	Recovery = 110.58%				
Sn 189.927†	19.6	10.9 ug/L	0.56	10.9 ug/L	0.56	5.12%
QC value within limits for Sn	189.927	Recovery = 109.37%				
Sr 421.552†	3499.4	4.86 ug/L	0.035	4.86 ug/L	0.035	0.71%
QC value within limits for Sr	421.552	Recovery = 97.26%				
Ti 334.940†	3174.4	5.15 ug/L	0.030	5.15 ug/L	0.030	0.58%
QC value within limits for Ti	334.940	Recovery = 102.93%				
Tl 190.801†	91.2	58.7 ug/L	1.50	58.7 ug/L	1.50	2.55%
QC value within limits for Tl	190.801	Recovery = 97.86%				
V 292.402†	534.9	10.4 ug/L	0.59	10.4 ug/L	0.59	5.64%
QC value within limits for V	292.402	Recovery = 103.89%				
Zn 206.200†	306.2	19.9 ug/L	0.11	19.9 ug/L	0.11	0.55%
QC value within limits for Zn	206.200	Recovery = 99.34%				

All analyte(s) passed QC.

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Sequence No.: 10                               Autosampler Location: 7
Sample ID: ICSA                               Date Collected: 5/10/2012 11:44:07 AM
Analyst:                                       Data Type: Reprocessed on 5/10/2012 12:12:33 PM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	233395.3	93.0 %	1.63			1.75%
Sc 361.383	2311320.7	92.3 %	0.41			0.45%
Ag 328.068†	-2292.5	0.785 ug/L	0.2952	0.785 ug/L	0.2952	37.62%
QC value within limits for Ag		328.068	Recovery = Not calculated			
Al 308.215†	454636.3	254000 ug/L	5145.6	254000 ug/L	5145.6	2.03%
QC value within limits for Al		308.215	Recovery = 101.60%			
As 188.979†	-8.5	3.47 ug/L	3.295	3.47 ug/L	3.295	94.91%
QC value within limits for As		188.979	Recovery = Not calculated			
Ba 233.527†	2155.0	-1.99 ug/L	0.393	-1.99 ug/L	0.393	19.74%
QC value within limits for Ba		233.527	Recovery = Not calculated			
Be 234.861†	762.6	-0.106 ug/L	0.8850	-0.106 ug/L	0.8850	836.19%
QC value within limits for Be		234.861	Recovery = Not calculated			
Ca 315.887†	2277151.6	245000 ug/L	4589.5	245000 ug/L	4589.5	1.87%
QC value within limits for Ca		315.887	Recovery = 98.10%			
Cd 226.502†	142.1	1.08 ug/L	0.416	1.08 ug/L	0.416	38.36%
QC value within limits for Cd		226.502	Recovery = Not calculated			
Co 228.616†	159.8	-0.468 ug/L	0.1857	-0.468 ug/L	0.1857	39.67%
QC value within limits for Co		228.616	Recovery = Not calculated			
Cr 267.716†	-132.6	-0.652 ug/L	0.4045	-0.652 ug/L	0.4045	62.02%
QC value within limits for Cr		267.716	Recovery = Not calculated			
Cu 324.752†	-1797.6	-6.01 ug/L	0.184	-6.01 ug/L	0.184	3.07%
QC value within limits for Cu		324.752	Recovery = Not calculated			
Fe 259.939†	3330677.1	214000 ug/L	4165.2	214000 ug/L	4165.2	1.94%
QC value within limits for Fe		259.939	Recovery = 95.20%			
K 766.490†	168.6	16.8 ug/L	15.51	16.8 ug/L	15.51	92.30%
Mg 279.077†	3302594.0	247000 ug/L	3923.9	247000 ug/L	3923.9	1.59%
QC value within limits for Mg		279.077	Recovery = 98.88%			
Mn 257.610†	772.8	0.489 ug/L	0.0537	0.489 ug/L	0.0537	10.98%
QC value within limits for Mn		257.610	Recovery = Not calculated			
Mo 202.031†	-25.5	-1.28 ug/L	0.349	-1.28 ug/L	0.349	27.29%
QC value within limits for Mo		202.031	Recovery = Not calculated			
Na 589.592†	37.0	3.90 ug/L	2.165	3.90 ug/L	2.165	55.54%
Ni 231.604†	40.1	-1.69 ug/L	0.099	-1.69 ug/L	0.099	5.85%
QC value within limits for Ni		231.604	Recovery = Not calculated			
Pb 220.353†	-19.0	-2.65 ug/L	4.042	-2.65 ug/L	4.042	152.44%
QC value within limits for Pb		220.353	Recovery = Not calculated			
Sb 206.836†	28.6	-0.103 ug/L	2.4138	-0.103 ug/L	2.4138	>999.9%
QC value within limits for Sb		206.836	Recovery = Not calculated			
Se 196.026†	-36.7	-6.90 ug/L	7.109	-6.90 ug/L	7.109	103.04%
QC value within limits for Se		196.026	Recovery = Not calculated			
Sn 189.927†	-20.6	0.003 ug/L	2.6478	0.003 ug/L	2.6478	>999.9%
QC value within limits for Sn		189.927	Recovery = Not calculated			
Sr 421.552†	764.5	1.05 ug/L	0.072	1.05 ug/L	0.072	6.88%
QC value within limits for Sr		421.552	Recovery = Not calculated			
Ti 334.940†	-208.9	-0.402 ug/L	0.0976	-0.402 ug/L	0.0976	24.29%
QC value within limits for Ti		334.940	Recovery = Not calculated			
Tl 190.801†	-10.5	-4.71 ug/L	5.464	-4.71 ug/L	5.464	116.06%
QC value within limits for Tl		190.801	Recovery = Not calculated			
V 292.402†	2553.3	0.011 ug/L	0.5812	0.011 ug/L	0.5812	>999.9%
QC value within limits for V		292.402	Recovery = Not calculated			
Zn 206.200†	-7.4	0.106 ug/L	0.3111	0.106 ug/L	0.3111	294.21%
QC value within limits for Zn		206.200	Recovery = Not calculated			

All analyte(s) passed QC.

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Sequence No.: 11                               Autosampler Location: 8
Sample ID: ICSAB                             Date Collected: 5/10/2012 11:49:33 AM
Analyst:                                       Data Type: Reprocessed on 5/10/2012 12:12:34 PM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	236951.2	94.4 %	0.24			0.26%
Sc 361.383	2324833.8	92.9 %	1.00			1.08%
Ag 328.068†	33076.3	199 ug/L	3.5	199 ug/L	3.5	1.74%
QC value within limits for Ag		328.068 Recovery = 99.51%				
Al 308.215†	447126.4	250000 ug/L	1624.8	250000 ug/L	1624.8	0.65%
QC value within limits for Al		308.215 Recovery = 99.92%				
As 188.979†	127.4	101 ug/L	1.9	101 ug/L	1.9	1.86%
QC value within limits for As		188.979 Recovery = 101.28%				
Ba 233.527†	44900.2	485 ug/L	4.2	485 ug/L	4.2	0.86%
QC value within limits for Ba		233.527 Recovery = 96.96%				
Be 234.861†	79829.8	518 ug/L	3.1	518 ug/L	3.1	0.60%
QC value within limits for Be		234.861 Recovery = 103.51%				
Ca 315.887†	2255408.9	243000 ug/L	649.4	243000 ug/L	649.4	0.27%
QC value within limits for Ca		315.887 Recovery = 97.16%				
Cd 226.502†	8356.7	930 ug/L	9.5	930 ug/L	9.5	1.03%
QC value within limits for Cd		226.502 Recovery = 93.01%				
Co 228.616†	13091.0	462 ug/L	5.8	462 ug/L	5.8	1.26%
QC value within limits for Co		228.616 Recovery = 92.46%				
Cr 267.716†	26018.0	484 ug/L	8.8	484 ug/L	8.8	1.83%
QC value within limits for Cr		267.716 Recovery = 96.76%				
Cu 324.752†	149145.2	507 ug/L	7.4	507 ug/L	7.4	1.47%
QC value within limits for Cu		324.752 Recovery = 101.31%				
Fe 259.939†	3283742.8	211000 ug/L	1018.5	211000 ug/L	1018.5	0.48%
QC value within limits for Fe		259.939 Recovery = 93.86%				
K 766.490†	116.5	6.80 ug/L	11.029	6.80 ug/L	11.029	162.29%
Mg 279.077†	3249717.5	243000 ug/L	1950.4	243000 ug/L	1950.4	0.80%
QC value within limits for Mg		279.077 Recovery = 97.30%				
Mn 257.610†	392357.4	491 ug/L	2.6	491 ug/L	2.6	0.53%
QC value within limits for Mn		257.610 Recovery = 98.25%				
Mo 202.031†	2347.7	494 ug/L	4.8	494 ug/L	4.8	0.97%
QC value within limits for Mo		202.031 Recovery = 98.74%				
Na 589.592†	79.7	7.66 ug/L	4.242	7.66 ug/L	4.242	55.40%
Ni 231.604†	11554.5	934 ug/L	12.3	934 ug/L	12.3	1.32%
QC value within limits for Ni		231.604 Recovery = 93.40%				
Pb 220.353†	85.3	47.8 ug/L	3.79	47.8 ug/L	3.79	7.92%
QC value within limits for Pb		220.353 Recovery = 95.58%				
Sb 206.836†	1303.5	583 ug/L	6.8	583 ug/L	6.8	1.16%
QC value within limits for Sb		206.836 Recovery = 97.21%				
Se 196.026†	0.7	43.1 ug/L	4.05	43.1 ug/L	4.05	9.39%
QC value within limits for Se		196.026 Recovery = 86.29%				
Sn 189.927†	1086.5	502 ug/L	2.5	502 ug/L	2.5	0.49%
QC value within limits for Sn		189.927 Recovery = 100.38%				
Sr 421.552†	350063.4	488 ug/L	3.6	488 ug/L	3.6	0.75%
QC value within limits for Sr		421.552 Recovery = 97.61%				
Ti 334.940†	311541.5	511 ug/L	8.8	511 ug/L	8.8	1.73%
QC value within limits for Ti		334.940 Recovery = 102.16%				
Tl 190.801†	140.4	90.9 ug/L	3.25	90.9 ug/L	3.25	3.58%
QC value within limits for Tl		190.801 Recovery = 90.93%				
V 292.402†	27771.1	493 ug/L	8.6	493 ug/L	8.6	1.74%
QC value within limits for V		292.402 Recovery = 98.55%				
Zn 206.200†	14028.1	942 ug/L	15.8	942 ug/L	15.8	1.68%
QC value within limits for Zn		206.200 Recovery = 94.17%				

All analyte(s) passed QC.

Sequence No.: 12

Autosampler Location: 4

Sample ID: CCV

Date Collected: 5/10/2012 11:54:51 AM

Analyst:

Data Type: Reprocessed on 5/10/2012 12:12:35 PM

Logged In Analyst (Original) : inorg

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	251562.7	100 %	0.6			0.62%
Sc 361.383	2482640.9	99.2 %	1.27			1.28%
Ag 328.068†	88621.8	500 ug/L	8.4	500 ug/L	8.4	1.67%
QC value within limits for Ag	328.068	Recovery = 99.94%				
Al 308.215†	43745.1	24400 ug/L	101.6	24400 ug/L	101.6	0.42%
QC value within limits for Al	308.215	Recovery = 97.77%				
As 188.979†	707.1	499 ug/L	5.3	499 ug/L	5.3	1.06%
QC value within limits for As	188.979	Recovery = 99.71%				
Ba 233.527†	43783.4	493 ug/L	10.0	493 ug/L	10.0	2.03%
QC value within limits for Ba	233.527	Recovery = 98.67%				
Be 234.861†	76687.4	501 ug/L	0.5	501 ug/L	0.5	0.11%
QC value within limits for Be	234.861	Recovery = 100.21%				
Ca 315.887†	230588.8	24800 ug/L	34.7	24800 ug/L	34.7	0.14%
QC value within limits for Ca	315.887	Recovery = 99.28%				
Cd 226.502†	4437.3	499 ug/L	6.9	499 ug/L	6.9	1.39%
QC value within limits for Cd	226.502	Recovery = 99.78%				
Co 228.616†	14054.2	502 ug/L	8.0	502 ug/L	8.0	1.59%
QC value within limits for Co	228.616	Recovery = 100.42%				
Cr 267.716†	27246.5	505 ug/L	9.1	505 ug/L	9.1	1.80%
QC value within limits for Cr	267.716	Recovery = 101.00%				
Cu 324.752†	143794.3	488 ug/L	0.7	488 ug/L	0.7	0.14%
QC value within limits for Cu	324.752	Recovery = 97.65%				
Fe 259.939†	623060.6	40100 ug/L	137.5	40100 ug/L	137.5	0.34%
QC value within limits for Fe	259.939	Recovery = 100.17%				
K 766.490†	128198.2	24600 ug/L	92.3	24600 ug/L	92.3	0.38%
QC value within limits for K	766.490	Recovery = 98.41%				
Mg 279.077†	333329.8	25000 ug/L	385.9	25000 ug/L	385.9	1.55%
QC value within limits for Mg	279.077	Recovery = 99.80%				
Mn 257.610†	402761.7	504 ug/L	1.8	504 ug/L	1.8	0.35%
QC value within limits for Mn	257.610	Recovery = 100.89%				
Mo 202.031†	2403.8	502 ug/L	5.1	502 ug/L	5.1	1.02%
QC value within limits for Mo	202.031	Recovery = 100.36%				
Na 589.592†	282925.2	24900 ug/L	123.6	24900 ug/L	123.6	0.50%
QC value within limits for Na	589.592	Recovery = 99.73%				
Ni 231.604†	6236.4	505 ug/L	8.3	505 ug/L	8.3	1.64%
QC value within limits for Ni	231.604	Recovery = 101.06%				
Pb 220.353†	1046.9	503 ug/L	6.4	503 ug/L	6.4	1.28%
QC value within limits for Pb	220.353	Recovery = 100.55%				
Sb 206.836†	1061.5	483 ug/L	5.4	483 ug/L	5.4	1.11%
QC value within limits for Sb	206.836	Recovery = 96.68%				
Se 196.026†	360.8	491 ug/L	10.0	491 ug/L	10.0	2.05%
QC value within limits for Se	196.026	Recovery = 98.14%				
Sn 189.927†	894.2	406 ug/L	3.8	406 ug/L	3.8	0.93%
QC value within limits for Sn	189.927	Recovery = 101.60%				
Sr 421.552†	285749.9	398 ug/L	2.8	398 ug/L	2.8	0.71%
QC value within limits for Sr	421.552	Recovery = 99.60%				
Ti 334.940†	246237.8	404 ug/L	1.5	404 ug/L	1.5	0.37%
QC value within limits for Ti	334.940	Recovery = 100.93%				
Tl 190.801†	782.2	509 ug/L	8.0	509 ug/L	8.0	1.57%
QC value within limits for Tl	190.801	Recovery = 101.81%				
V 292.402†	26025.6	498 ug/L	8.3	498 ug/L	8.3	1.66%
QC value within limits for V	292.402	Recovery = 99.69%				
Zn 206.200†	7647.4	513 ug/L	9.5	513 ug/L	9.5	1.85%
QC value within limits for Zn	206.200	Recovery = 102.67%				

All analyte(s) passed QC.

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Sequence No.: 13                               Autosampler Location: 1
Sample ID: CCB                                 Date Collected: 5/10/2012 12:00:12 PM
Analyst:                                       Data Type: Reprocessed on 5/10/2012 12:12:36 PM
Logged In Analyst (Original) : inorg
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
=====
    
```

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	252738.3	101 %	0.8			0.76%
Sc 361.383	2521048.8	101 %	0.7			0.71%
Ag 328.068†	17.7	0.039 ug/L	0.4721	0.039 ug/L	0.4721	>999.9%
QC value within limits for Ag	328.068	Recovery =	Not calculated			
Al 308.215†	31.1	15.1 ug/L	1.35	15.1 ug/L	1.35	8.93%
QC value within limits for Al	308.215	Recovery =	Not calculated			
As 188.979†	1.3	1.31 ug/L	1.186	1.31 ug/L	1.186	90.52%
QC value within limits for As	188.979	Recovery =	Not calculated			
Ba 233.527†	7.5	0.129 ug/L	0.0256	0.129 ug/L	0.0256	19.82%
QC value within limits for Ba	233.527	Recovery =	Not calculated			
Be 234.861†	25.7	0.210 ug/L	0.0350	0.210 ug/L	0.0350	16.66%
QC value within limits for Be	234.861	Recovery =	Not calculated			
Ca 315.887†	193.4	6.02 ug/L	1.657	6.02 ug/L	1.657	27.51%
QC value within limits for Ca	315.887	Recovery =	Not calculated			
Cd 226.502†	0.9	0.112 ug/L	0.1705	0.112 ug/L	0.1705	152.05%
QC value within limits for Cd	226.502	Recovery =	Not calculated			
Co 228.616†	7.4	0.277 ug/L	0.0437	0.277 ug/L	0.0437	15.79%
QC value within limits for Co	228.616	Recovery =	Not calculated			
Cr 267.716†	7.8	-0.001 ug/L	0.1264	-0.001 ug/L	0.1264	>999.9%
QC value within limits for Cr	267.716	Recovery =	Not calculated			
Cu 324.752†	-45.6	-0.052 ug/L	0.0602	-0.052 ug/L	0.0602	115.65%
QC value within limits for Cu	324.752	Recovery =	Not calculated			
Fe 259.939†	358.5	22.1 ug/L	1.50	22.1 ug/L	1.50	6.78%
QC value within limits for Fe	259.939	Recovery =	Not calculated			
K 766.490†	156.7	14.5 ug/L	1.07	14.5 ug/L	1.07	7.38%
QC value within limits for K	766.490	Recovery =	Not calculated			
Mg 279.077†	255.7	15.6 ug/L	0.65	15.6 ug/L	0.65	4.15%
QC value within limits for Mg	279.077	Recovery =	Not calculated			
Mn 257.610†	-17.3	-0.308 ug/L	0.0468	-0.308 ug/L	0.0468	15.17%
QC value within limits for Mn	257.610	Recovery =	Not calculated			
Mo 202.031†	3.0	0.168 ug/L	0.3230	0.168 ug/L	0.3230	192.18%
QC value within limits for Mo	202.031	Recovery =	Not calculated			
Na 589.592†	-64.3	-5.03 ug/L	2.080	-5.03 ug/L	2.080	41.34%
QC value within limits for Na	589.592	Recovery =	Not calculated			
Ni 231.604†	3.8	-0.157 ug/L	0.6449	-0.157 ug/L	0.6449	411.29%
QC value within limits for Ni	231.604	Recovery =	Not calculated			
Pb 220.353†	1.5	-0.074 ug/L	0.7150	-0.074 ug/L	0.7150	971.53%
QC value within limits for Pb	220.353	Recovery =	Not calculated			
Sb 206.836†	-2.9	0.166 ug/L	0.4885	0.166 ug/L	0.4885	294.40%
QC value within limits for Sb	206.836	Recovery =	Not calculated			
Se 196.026†	0.6	4.09 ug/L	5.309	4.09 ug/L	5.309	129.97%
QC value within limits for Se	196.026	Recovery =	Not calculated			
Sn 189.927†	-2.3	0.927 ug/L	0.0406	0.927 ug/L	0.0406	4.38%
QC value within limits for Sn	189.927	Recovery =	Not calculated			
Sr 421.552†	67.9	0.079 ug/L	0.0162	0.079 ug/L	0.0162	20.58%
QC value within limits for Sr	421.552	Recovery =	Not calculated			
Ti 334.940†	75.7	0.065 ug/L	0.0066	0.065 ug/L	0.0066	10.18%
QC value within limits for Ti	334.940	Recovery =	Not calculated			
Tl 190.801†	2.4	0.544 ug/L	4.0219	0.544 ug/L	4.0219	739.50%
QC value within limits for Tl	190.801	Recovery =	Not calculated			
V 292.402†	15.6	0.265 ug/L	0.1969	0.265 ug/L	0.1969	74.29%
QC value within limits for V	292.402	Recovery =	Not calculated			
Zn 206.200†	2.5	-0.507 ug/L	0.4020	-0.507 ug/L	0.4020	79.32%
QC value within limits for Zn	206.200	Recovery =	Not calculated			

All analyte(s) passed QC.

=====
Analysis Begun

Start Time: 5/10/2012 12:14:09 PM Plasma On Time: 5/10/2012 9:05:11 AM
Logged In Analyst: inorg Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N3112401 Autosampler Model: AS-93plus

Sample Information File: D:\pe\inorg\Sample Information\051012A.sif
Batch ID: 051012A
Results Data Set: 051012A-1
Results Library: d:\pe\inorg\Results\Results.mdb

=====
Sequence No.: 1 Autosampler Location: 6
Sample ID: ICV Date Collected: 5/10/2012 12:14:11 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
User canceled analysis.

=====
Analysis Begun

Start Time: 5/10/2012 12:14:35 PM Plasma On Time: 5/10/2012 9:05:11 AM
Logged In Analyst: inorg Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N3112401 Autosampler Model: AS-93plus

Sample Information File: D:\pe\inorg\Sample Information\051012A.sif
Batch ID: 051012A
Results Data Set: 051012A-1
Results Library: d:\pe\inorg\Results\Results.mdb

=====
Sequence No.: 8 Autosampler Location: 38
Sample ID: 350584308 Date Collected: 5/10/2012 12:14:35 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: 5X Sample Prep Vol:

Mean Data: 350584308

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	249219.9	99.3 %	0.36			0.36%
Sc 361.383	2470026.5	98.7 %	1.18			1.19%
Ag 328.068†	-520.9	1.37 ug/L	0.354	6.87 ug/L	1.769	25.74%
Al 308.215†	17298.5	9660 ug/L	79.3	48300 ug/L	396.5	0.82%
As 188.979†	45.7	36.0 ug/L	2.39	180 ug/L	12.0	6.64%
Ba 233.527†	10944.6	116 ug/L	1.3	581 ug/L	6.4	1.11%
Be 234.861†	455.1	1.39 ug/L	0.224	6.94 ug/L	1.121	16.17%
Ca 315.887†	362327.1	39000 ug/L	266.0	195000 ug/L	1330.0	0.68%
Cd 226.502†	43.3	0.149 ug/L	0.6108	0.745 ug/L	3.0540	409.97%
Co 228.616†	851.6	28.0 ug/L	0.32	140 ug/L	1.6	1.13%
Cr 267.716†	7160.7	133 ug/L	2.0	666 ug/L	10.2	1.53%
Cu 324.752†	400771.7	1360 ug/L	1.8	6810 ug/L	9.2	0.14%
Fe 259.939†	1059093.8	68100 ug/L	620.8	341000 ug/L	3104.1	0.91%
K 766.490†	3270.3	612 ug/L	18.5	3060 ug/L	92.5	3.02%
Mg 279.077†	200322.2	15000 ug/L	172.1	75000 ug/L	860.6	1.15%
Mn 257.610†	1524346.7	1910 ug/L	16.0	9550 ug/L	80.0	0.84%
Mo 202.031†	2.4	1.48 ug/L	0.258	7.41 ug/L	1.291	17.41%
Na 589.592†	1928.2	171 ug/L	4.3	853 ug/L	21.7	2.54%
Ni 231.604†	515.0	40.0 ug/L	0.48	200 ug/L	2.4	1.21%
Pb 220.353†	153.2	68.3 ug/L	3.14	341 ug/L	15.7	4.59%
Sb 206.836†	5.8	-1.12 ug/L	1.653	-5.62 ug/L	8.265	146.97%
Se 196.026†	-9.7	-0.395 ug/L	1.8206	-1.98 ug/L	9.103	460.40%
Sn 189.927†	132.1	61.3 ug/L	1.79	306 ug/L	8.9	2.92%
Sr 421.552†	36295.0	50.6 ug/L	0.36	253 ug/L	1.8	0.71%
Ti 334.940†	186482.4	306 ug/L	0.7	1530 ug/L	3.5	0.23%
Tl 190.801†	5.7	3.81 ug/L	3.568	19.1 ug/L	17.84	93.63%
V 292.402†	5463.9	90.8 ug/L	1.85	454 ug/L	9.2	2.03%
Zn 206.200†	4592.4	308 ug/L	2.8	1540 ug/L	14.2	0.92%


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=====
Sequence No.: 9                               Autosampler Location: 39
Sample ID: 350595002                         Date Collected: 5/10/2012 12:19:53 PM
Analyst:                                     Data Type: Original
Initial Sample Wt:                           Initial Sample Vol:
Dilution: 5X                                Sample Prep Vol:
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Mean Data: 350595002

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
Sc Radial	246649.2	98.3 %		0.60			0.61%
Sc 361.383	2436360.3	97.3 %		1.16			1.20%
Ag 328.068†	-44.4	-0.276 ug/L		0.3705	-1.38 ug/L	1.852	134.04%
Al 308.215†	65.7	34.4 ug/L		1.91	172 ug/L	9.6	5.56%
As 188.979†	4.3	3.44 ug/L		1.875	17.2 ug/L	9.37	54.45%
Ba 233.527†	129.7	1.46 ug/L		0.067	7.28 ug/L	0.335	4.59%
Be 234.861†	8.5	0.086 ug/L		0.0187	0.428 ug/L	0.0935	21.85%
Ca 315.887†	206578.0	22200 ug/L		89.7	111000 ug/L	448.3	0.40%
Cd 226.502†	5.5	0.597 ug/L		0.1519	2.99 ug/L	0.760	25.45%
Co 228.616†	-3.8	-0.140 ug/L		0.0532	-0.699 ug/L	0.2662	38.09%
Cr 267.716†	31.3	0.440 ug/L		0.0915	2.20 ug/L	0.458	20.81%
Cu 324.752†	68.9	0.321 ug/L		0.1915	1.60 ug/L	0.957	59.68%
Fe 259.939†	8373.1	538 ug/L		3.6	2690 ug/L	17.9	0.67%
K 766.490†	24078.9	4610 ug/L		31.7	23000 ug/L	158.5	0.69%
Mg 279.077†	158363.7	11900 ug/L		83.6	59300 ug/L	418.0	0.71%
Mn 257.610†	8577.9	10.5 ug/L		0.09	52.3 ug/L	0.43	0.82%
Mo 202.031†	2.5	0.077 ug/L		0.9936	0.386 ug/L	4.9681	>999.9%
Na 589.592†	588904.5	51900 ug/L		50.6	259000 ug/L	253.0	0.10%
Ni 231.604†	-1.7	-0.616 ug/L		0.2851	-3.08 ug/L	1.425	46.30%
Pb 220.353†	3.2	0.710 ug/L		0.8805	3.55 ug/L	4.402	124.04%
Sb 206.836†	-2.4	0.362 ug/L		0.6654	1.81 ug/L	3.327	184.05%
Se 196.026†	-3.7	0.251 ug/L		1.1883	1.26 ug/L	5.942	473.25%
Sn 189.927†	-12.5	-1.39 ug/L		0.079	-6.96 ug/L	0.395	5.68%
Sr 421.552†	246497.1	344 ug/L		0.1	1720 ug/L	0.6	0.03%
Ti 334.940†	123.8	0.144 ug/L		0.0488	0.719 ug/L	0.2442	33.94%
Tl 190.801†	0.0	-0.986 ug/L		1.9305	-4.93 ug/L	9.653	195.77%
V 292.402†	11.2	0.061 ug/L		0.1021	0.306 ug/L	0.5104	166.89%
Zn 206.200†	38.6	1.91 ug/L		0.126	9.57 ug/L	0.630	6.59%

Sequence No.: 10
Sample ID: 350595002L
Analyst:
Initial Sample Wt:
Dilution: 25X

Autosampler Location: 40
Date Collected: 5/10/2012 12:26:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 350595002L

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	252726.3		101 %	0.8			0.75%
Sc 361.383	2501562.2		99.9 %	0.77			0.77%
Ag 328.068†	-30.1	-0.224 ug/L		0.1576	-5.59 ug/L	3.939	70.50%
Al 308.215†	30.1	14.5 ug/L		0.77	363 ug/L	19.1	5.27%
As 188.979†	0.2	0.520 ug/L		0.5087	13.0 ug/L	12.72	97.75%
Ba 233.527†	28.5	0.357 ug/L		0.0642	8.92 ug/L	1.605	18.00%
Be 234.861†	8.1	0.093 ug/L		0.0123	2.32 ug/L	0.308	13.29%
Ca 315.887†	40933.3	4390 ug/L		37.2	110000 ug/L	929.5	0.85%
Cd 226.502†	2.7	0.314 ug/L		0.1781	7.86 ug/L	4.451	56.65%
Co 228.616†	1.5	0.063 ug/L		0.2863	1.57 ug/L	7.157	456.81%
Cr 267.716†	8.3	0.010 ug/L		0.1178	0.241 ug/L	2.9453	>999.9%
Cu 324.752†	-16.6	0.043 ug/L		0.1106	1.08 ug/L	2.765	256.82%
Fe 259.939†	1822.8	116 ug/L		0.9	2910 ug/L	22.9	0.79%
K 766.490†	5053.6	955 ug/L		7.4	23900 ug/L	183.8	0.77%
Mg 279.077†	31749.3	2370 ug/L		9.4	59300 ug/L	236.1	0.40%
Mn 257.610†	1761.4	1.92 ug/L		0.012	48.0 ug/L	0.30	0.63%
Mo 202.031†	3.9	0.364 ug/L		0.6149	9.11 ug/L	15.373	168.83%
Na 589.592†	116842.1	10300 ug/L		99.3	257000 ug/L	2481.4	0.96%
Ni 231.604†	-1.1	-0.553 ug/L		0.4586	-13.8 ug/L	11.46	82.88%
Pb 220.353†	-0.5	-1.03 ug/L		1.987	-25.8 ug/L	49.68	192.67%
Sb 206.836†	-3.9	-0.321 ug/L		0.8644	-8.01 ug/L	21.611	269.71%
Se 196.026†	-0.8	2.59 ug/L		2.380	64.6 ug/L	59.50	92.05%
Sn 189.927†	-11.2	-2.64 ug/L		1.044	-66.0 ug/L	26.10	39.53%
Sr 421.552†	49104.9	68.4 ug/L		0.71	1710 ug/L	17.7	1.03%
Ti 334.940†	0.1	-0.059 ug/L		0.0086	-1.47 ug/L	0.215	14.57%
Tl 190.801†	2.0	0.274 ug/L		1.5075	6.85 ug/L	37.687	550.08%
V 292.402†	3.6	0.009 ug/L		0.0662	0.219 ug/L	1.6545	753.90%
Zn 206.200†	30.5	1.37 ug/L		0.115	34.3 ug/L	2.88	8.40%

Sequence No.: 11
 Sample ID: 350595003
 Analyst:
 Initial Sample Wt:
 Dilution: 5X

Autosampler Location: 41
 Date Collected: 5/10/2012 12:32:13 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350595003

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	245242.3		97.7 %	0.88			0.90%
Sc 361.383	2440139.0		97.5 %	3.44			3.53%
Ag 328.068†	-42.6		-0.273 ug/L	0.3474	-1.36 ug/L	1.737	127.41%
Al 308.215†	35.6		17.6 ug/L	2.80	87.9 ug/L	14.01	15.93%
As 188.979†	3.7		2.99 ug/L	0.993	14.9 ug/L	4.96	33.23%
Ba 233.527†	65.4		0.736 ug/L	0.0091	3.68 ug/L	0.045	1.23%
Be 234.861†	4.9		0.064 ug/L	0.0407	0.322 ug/L	0.2037	63.22%
Ca 315.887†	146210.5		15700 ug/L	20.4	78700 ug/L	102.2	0.13%
Cd 226.502†	2.0		0.215 ug/L	0.2544	1.08 ug/L	1.272	118.20%
Co 228.616†	-3.7		-0.133 ug/L	0.1949	-0.664 ug/L	0.9747	146.82%
Cr 267.716†	23.7		0.299 ug/L	0.0820	1.49 ug/L	0.410	27.44%
Cu 324.752†	42.1		0.236 ug/L	0.3895	1.18 ug/L	1.947	165.26%
Fe 259.939†	6850.4		440 ug/L	5.6	2200 ug/L	27.8	1.26%
K 766.490†	22216.6		4250 ug/L	18.7	21300 ug/L	93.5	0.44%
Mg 279.077†	127273.6		9520 ug/L	93.5	47600 ug/L	467.5	0.98%
Mn 257.610†	5245.0		6.29 ug/L	0.290	31.4 ug/L	1.45	4.62%
Mo 202.031†	3.9		0.375 ug/L	0.4448	1.87 ug/L	2.224	118.70%
Na 589.592†	632256.9		55700 ug/L	211.9	279000 ug/L	1059.4	0.38%
Ni 231.604†	2.3		-0.290 ug/L	0.3033	-1.45 ug/L	1.517	104.65%
Pb 220.353†	2.5		0.392 ug/L	2.3650	1.96 ug/L	11.825	603.74%
Sb 206.836†	-1.0		1.02 ug/L	0.516	5.09 ug/L	2.581	50.72%
Se 196.026†	-4.4		-1.29 ug/L	3.666	-6.43 ug/L	18.330	285.01%
Sn 189.927†	-11.0		-1.40 ug/L	1.157	-7.02 ug/L	5.783	82.36%
Sr 421.552†	177504.4		247 ug/L	0.7	1240 ug/L	3.5	0.29%
Ti 334.940†	-5.0		-0.067 ug/L	0.0357	-0.336 ug/L	0.1786	53.10%
Tl 190.801†	2.6		0.680 ug/L	0.9614	3.40 ug/L	4.807	141.35%
V 292.402†	15.5		0.166 ug/L	0.2006	0.831 ug/L	1.0030	120.68%
Zn 206.200†	53.2		2.89 ug/L	0.166	14.5 ug/L	0.83	5.74%

Sequence No.: 12
 Sample ID: 129870MB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 42
 Date Collected: 5/10/2012 12:38:23 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 129870MB

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	251458.5		100 %	0.6			0.57%
Sc 361.383	2500096.9		99.9 %	0.59			0.59%
Ag 328.068†	-16.3		-0.154 ug/L	0.1763	-0.154 ug/L	0.1763	114.83%
Al 308.215†	2.7		-0.781 ug/L	4.3539	-0.781 ug/L	4.3539	557.77%
As 188.979†	-2.4		-1.31 ug/L	2.396	-1.31 ug/L	2.396	182.50%
Ba 233.527†	-1.7		0.027 ug/L	0.0468	0.027 ug/L	0.0468	172.34%
Be 234.861†	-2.7		0.025 ug/L	0.0127	0.025 ug/L	0.0127	50.93%
Ca 315.887†	127.0		-1.13 ug/L	0.960	-1.13 ug/L	0.960	84.73%
Cd 226.502†	-0.8		-0.071 ug/L	0.2286	-0.071 ug/L	0.2286	321.94%
Co 228.616†	6.0		0.229 ug/L	0.0323	0.229 ug/L	0.0323	14.14%
Cr 267.716†	-1.4		-0.171 ug/L	0.1526	-0.171 ug/L	0.1526	89.10%
Cu 324.752†	40.9		0.234 ug/L	0.1386	0.234 ug/L	0.1386	59.13%
Fe 259.939†	32.8		1.18 ug/L	0.174	1.18 ug/L	0.174	14.69%
K 766.490†	80.6		-0.114 ug/L	15.3790	-0.114 ug/L	15.3790	>999.9%
Mg 279.077†	51.4		0.296 ug/L	4.8281	0.296 ug/L	4.8281	>999.9%
Mn 257.610†	4492.8		5.34 ug/L	0.069	5.34 ug/L	0.069	1.30%
Mo 202.031†	2.7		0.105 ug/L	0.2437	0.105 ug/L	0.2437	231.31%
Na 589.592†	32.1		3.46 ug/L	7.050	3.46 ug/L	7.050	203.58%
Ni 231.604†	1.0		-0.385 ug/L	0.3798	-0.385 ug/L	0.3798	98.65%
Pb 220.353†	1.7		0.036 ug/L	2.1478	0.036 ug/L	2.1478	>999.9%
Sb 206.836†	-3.4		-0.085 ug/L	0.6042	-0.085 ug/L	0.6042	709.13%
Se 196.026†	-1.2		1.80 ug/L	3.958	1.80 ug/L	3.958	220.52%
Sn 189.927†	-7.1		-1.26 ug/L	0.479	-1.26 ug/L	0.479	37.92%
Sr 421.552†	31.2		0.027 ug/L	0.0672	0.027 ug/L	0.0672	245.58%
Ti 334.940†	-27.3		-0.104 ug/L	0.0675	-0.104 ug/L	0.0675	64.96%
Tl 190.801†	-1.5		-2.01 ug/L	2.911	-2.01 ug/L	2.911	144.93%
V 292.402†	-6.5		-0.161 ug/L	0.0945	-0.161 ug/L	0.0945	58.71%
Zn 206.200†	21.2		0.749 ug/L	0.1530	0.749 ug/L	0.1530	20.44%

Sequence No.: 13
 Sample ID: 129871LCS
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 43
 Date Collected: 5/10/2012 12:44:32 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 129871LCS

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	244176.5	97.3 %	0.83			0.86%
Sc 361.383	2397382.2	95.8 %	0.88			0.92%
Ag 328.068†	33522.4	191 ug/L	1.5	191 ug/L	1.5	0.81%
Al 308.215†	87808.4	49100 ug/L	163.7	49100 ug/L	163.7	0.33%
As 188.979†	713.8	503 ug/L	3.3	503 ug/L	3.3	0.65%
Ba 233.527†	127329.5	1440 ug/L	24.1	1440 ug/L	24.1	1.67%
Be 234.861†	76770.6	501 ug/L	8.0	501 ug/L	8.0	1.60%
Ca 315.887†	460554.8	49600 ug/L	116.3	49600 ug/L	116.3	0.23%
Cd 226.502†	4302.4	483 ug/L	6.1	483 ug/L	6.1	1.26%
Co 228.616†	13489.5	481 ug/L	5.2	481 ug/L	5.2	1.09%
Cr 267.716†	26649.6	494 ug/L	5.3	494 ug/L	5.3	1.07%
Cu 324.752†	145052.1	493 ug/L	6.6	493 ug/L	6.6	1.35%
Fe 259.939†	768925.2	49400 ug/L	170.1	49400 ug/L	170.1	0.34%
K 766.490†	259827.0	49900 ug/L	209.5	49900 ug/L	209.5	0.42%
Mg 279.077†	644237.4	48200 ug/L	256.2	48200 ug/L	256.2	0.53%
Mn 257.610†	398994.1	500 ug/L	5.4	500 ug/L	5.4	1.08%
Mo 202.031†	2404.7	502 ug/L	4.1	502 ug/L	4.1	0.81%
Na 589.592†	570794.5	50300 ug/L	186.9	50300 ug/L	186.9	0.37%
Ni 231.604†	6024.7	488 ug/L	3.3	488 ug/L	3.3	0.67%
Pb 220.353†	1018.0	490 ug/L	4.0	490 ug/L	4.0	0.81%
Sb 206.836†	1044.5	475 ug/L	2.8	475 ug/L	2.8	0.58%
Se 196.026†	358.0	490 ug/L	5.5	490 ug/L	5.5	1.13%
Sn 189.927†	1123.6	512 ug/L	4.5	512 ug/L	4.5	0.87%
Sr 421.552†	349124.2	487 ug/L	1.3	487 ug/L	1.3	0.26%
Ti 334.940†	318406.9	522 ug/L	6.7	522 ug/L	6.7	1.28%
Tl 190.801†	758.9	494 ug/L	5.4	494 ug/L	5.4	1.09%
V 292.402†	26194.5	500 ug/L	5.2	500 ug/L	5.2	1.04%
Zn 206.200†	7335.8	493 ug/L	4.3	493 ug/L	4.3	0.87%

Sequence No.: 14
 Sample ID: 129872LCSD
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 44
 Date Collected: 5/10/2012 12:49:43 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 129872LCSD

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	243214.9	96.9 %	0.35			0.36%
Sc 361.383	2387863.7	95.4 %	0.25			0.26%
Ag 328.068†	33937.9	194 ug/L	1.0	194 ug/L	1.0	0.51%
Al 308.215†	88192.6	49300 ug/L	87.9	49300 ug/L	87.9	0.18%
As 188.979†	716.3	505 ug/L	6.5	505 ug/L	6.5	1.28%
Ba 233.527†	128230.4	1450 ug/L	14.8	1450 ug/L	14.8	1.02%
Be 234.861†	77230.5	504 ug/L	6.5	504 ug/L	6.5	1.28%
Ca 315.887†	460062.0	49500 ug/L	41.8	49500 ug/L	41.8	0.08%
Cd 226.502†	4364.8	490 ug/L	0.8	490 ug/L	0.8	0.16%
Co 228.616†	13697.7	489 ug/L	2.6	489 ug/L	2.6	0.53%
Cr 267.716†	26991.2	500 ug/L	2.9	500 ug/L	2.9	0.57%
Cu 324.752†	146996.4	499 ug/L	2.7	499 ug/L	2.7	0.53%
Fe 259.939†	770705.8	49600 ug/L	33.1	49600 ug/L	33.1	0.07%
K 766.490†	260320.7	50000 ug/L	42.9	50000 ug/L	42.9	0.09%
Mg 279.077†	647259.0	48400 ug/L	260.6	48400 ug/L	260.6	0.54%
Mn 257.610†	407249.0	510 ug/L	2.6	510 ug/L	2.6	0.51%
Mo 202.031†	2443.0	510 ug/L	2.5	510 ug/L	2.5	0.49%
Na 589.592†	571187.3	50300 ug/L	33.8	50300 ug/L	33.8	0.07%
Ni 231.604†	6108.8	495 ug/L	2.7	495 ug/L	2.7	0.54%
Pb 220.353†	1031.6	497 ug/L	3.3	497 ug/L	3.3	0.67%
Sb 206.836†	1070.0	487 ug/L	1.4	487 ug/L	1.4	0.28%
Se 196.026†	359.0	491 ug/L	7.3	491 ug/L	7.3	1.49%
Sn 189.927†	1151.9	525 ug/L	5.8	525 ug/L	5.8	1.11%
Sr 421.552†	351503.6	490 ug/L	0.7	490 ug/L	0.7	0.14%
Ti 334.940†	324823.2	533 ug/L	1.7	533 ug/L	1.7	0.33%
Tl 190.801†	758.1	494 ug/L	1.0	494 ug/L	1.0	0.21%
V 292.402†	26509.7	506 ug/L	5.4	506 ug/L	5.4	1.07%
Zn 206.200†	7441.3	500 ug/L	1.3	500 ug/L	1.3	0.26%

Sequence No.: 15
 Sample ID: 350596416
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 45
 Date Collected: 5/10/2012 12:54:55 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350596416

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	256086.1		102 %	0.1			0.08%
Sc 361.383	2477249.6		99.0 %	1.28			1.29%
Ag 328.068†	1.9		-0.039 ug/L	0.2347	-0.039 ug/L	0.2347	599.38%
Al 308.215†	284.1		156 ug/L	0.4	156 ug/L	0.4	0.28%
As 188.979†	17.3		12.5 ug/L	2.00	12.5 ug/L	2.00	16.05%
Ba 233.527†	3802.5		43.3 ug/L	0.69	43.3 ug/L	0.69	1.59%
Be 234.861†	17.5		0.153 ug/L	0.0391	0.153 ug/L	0.0391	25.61%
Ca 315.887†	330306.2		35600 ug/L	56.1	35600 ug/L	56.1	0.16%
Cd 226.502†	8.1		0.913 ug/L	0.2622	0.913 ug/L	0.2622	28.73%
Co 228.616†	-5.4		-0.192 ug/L	0.1355	-0.192 ug/L	0.1355	70.69%
Cr 267.716†	64.0		1.04 ug/L	0.234	1.04 ug/L	0.234	22.43%
Cu 324.752†	350.3		1.16 ug/L	0.098	1.16 ug/L	0.098	8.40%
Fe 259.939†	2979.5		191 ug/L	2.7	191 ug/L	2.7	1.41%
K 766.490†	32374.3		6200 ug/L	10.6	6200 ug/L	10.6	0.17%
Mg 279.077†	97799.3		7320 ug/L	56.6	7320 ug/L	56.6	0.77%
Mn 257.610†	64954.4		81.1 ug/L	0.88	81.1 ug/L	0.88	1.09%
Mo 202.031†	79.9		16.2 ug/L	0.69	16.2 ug/L	0.69	4.23%
Na 589.592†	428283.2		37700 ug/L	60.6	37700 ug/L	60.6	0.16%
Ni 231.604†	31.1		2.05 ug/L	0.433	2.05 ug/L	0.433	21.09%
Pb 220.353†	5.4		1.81 ug/L	1.028	1.81 ug/L	1.028	56.91%
Sb 206.836†	-4.2		-0.431 ug/L	1.2705	-0.431 ug/L	1.2705	294.57%
Se 196.026†	-6.5		-2.51 ug/L	5.459	-2.51 ug/L	5.459	217.28%
Sn 189.927†	-17.7		-2.31 ug/L	1.197	-2.31 ug/L	1.197	51.92%
Sr 421.552†	133470.0		186 ug/L	0.4	186 ug/L	0.4	0.21%
Ti 334.940†	1793.7		2.88 ug/L	0.180	2.88 ug/L	0.180	6.25%
Tl 190.801†	2.1		0.384 ug/L	4.4018	0.384 ug/L	4.4018	>999.9%
V 292.402†	33.1		0.569 ug/L	0.1826	0.569 ug/L	0.1826	32.11%
Zn 206.200†	143.3		8.93 ug/L	0.138	8.93 ug/L	0.138	1.55%

Sequence No.: 16
 Sample ID: 350596416L
 Analyst:
 Initial Sample Wt:
 Dilution: 5X

Autosampler Location: 46
 Date Collected: 5/10/2012 1:01:06 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350596416L

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Sc Radial	253492.9		101 %	0.6			0.61%
Sc 361.383	2521606.5		101 %	0.7			0.65%
Ag 328.068†	31.8		0.120 ug/L	0.0824	0.600 ug/L	0.4120	68.69%
Al 308.215†	81.2		43.1 ug/L	4.11	215 ug/L	20.6	9.55%
As 188.979†	1.9		1.75 ug/L	1.919	8.74 ug/L	9.597	109.77%
Ba 233.527†	764.5		8.74 ug/L	0.052	43.7 ug/L	0.26	0.59%
Be 234.861†	8.3		0.096 ug/L	0.0292	0.479 ug/L	0.1461	30.49%
Ca 315.887†	65875.3		7080 ug/L	49.1	35400 ug/L	245.5	0.69%
Cd 226.502†	2.7		0.318 ug/L	0.2873	1.59 ug/L	1.437	90.30%
Co 228.616†	-4.1		-0.138 ug/L	0.1143	-0.689 ug/L	0.5713	82.94%
Cr 267.716†	21.5		0.253 ug/L	0.1408	1.27 ug/L	0.704	55.64%
Cu 324.752†	48.0		0.241 ug/L	0.2143	1.20 ug/L	1.071	89.01%
Fe 259.939†	813.3		51.4 ug/L	0.38	257 ug/L	1.9	0.74%
K 766.490†	6541.6		1240 ug/L	25.3	6200 ug/L	126.5	2.04%
Mg 279.077†	19932.1		1490 ug/L	10.7	7440 ug/L	53.5	0.72%
Mn 257.610†	12863.2		15.8 ug/L	0.11	79.2 ug/L	0.56	0.70%
Mo 202.031†	17.9		3.28 ug/L	0.830	16.4 ug/L	4.15	25.28%
Na 589.592†	84505.2		7450 ug/L	27.1	37200 ug/L	135.3	0.36%
Ni 231.604†	8.0		0.182 ug/L	0.4457	0.908 ug/L	2.2285	245.56%
Pb 220.353†	2.1		0.220 ug/L	0.9506	1.10 ug/L	4.753	431.44%
Sb 206.836†	-1.6		0.744 ug/L	1.7636	3.72 ug/L	8.818	237.15%
Se 196.026†	0.3		4.31 ug/L	5.673	21.6 ug/L	28.36	131.51%
Sn 189.927†	-12.3		-2.85 ug/L	1.215	-14.3 ug/L	6.08	42.58%
Sr 421.552†	26411.7		36.8 ug/L	0.12	184 ug/L	0.6	0.33%
Ti 334.940†	383.7		0.570 ug/L	0.0524	2.85 ug/L	0.262	9.20%
Tl 190.801†	-0.1		-1.09 ug/L	0.243	-5.43 ug/L	1.214	22.37%
V 292.402†	5.5		0.062 ug/L	0.1674	0.311 ug/L	0.8372	269.01%
Zn 206.200†	54.7		2.99 ug/L	0.217	15.0 ug/L	1.08	7.24%

Sequence No.: 17
 Sample ID: 350596417
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 47
 Date Collected: 5/10/2012 1:07:17 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 350596417

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	243322.2	96.9 %	0.47			0.49%
Sc 361.383	2387155.9	95.4 %	0.36			0.38%
Ag 328.068†	34070.1	194 ug/L	0.6	194 ug/L	0.6	0.29%
Al 308.215†	92489.3	51700 ug/L	266.9	51700 ug/L	266.9	0.52%
As 188.979†	755.3	533 ug/L	2.4	533 ug/L	2.4	0.45%
Ba 233.527†	132884.1	1510 ug/L	14.4	1510 ug/L	14.4	0.95%
Be 234.861†	77503.8	506 ug/L	0.8	506 ug/L	0.8	0.15%
Ca 315.887†	804603.4	86600 ug/L	269.6	86600 ug/L	269.6	0.31%
Cd 226.502†	4313.4	484 ug/L	2.1	484 ug/L	2.1	0.43%
Co 228.616†	13559.1	484 ug/L	0.9	484 ug/L	0.9	0.19%
Cr 267.716†	26897.6	499 ug/L	1.7	499 ug/L	1.7	0.35%
Cu 324.752†	149577.1	508 ug/L	1.2	508 ug/L	1.2	0.23%
Fe 259.939†	786852.0	50600 ug/L	185.2	50600 ug/L	185.2	0.37%
K 766.490†	299467.0	57500 ug/L	38.6	57500 ug/L	38.6	0.07%
Mg 279.077†	753310.6	56400 ug/L	544.1	56400 ug/L	544.1	0.96%
Mn 257.610†	487488.9	611 ug/L	1.7	611 ug/L	1.7	0.28%
Mo 202.031†	2550.9	533 ug/L	1.8	533 ug/L	1.8	0.34%
Na 589.592†	1019230.3	89800 ug/L	640.6	89800 ug/L	640.6	0.71%
Ni 231.604†	6118.0	495 ug/L	2.3	495 ug/L	2.3	0.45%
Pb 220.353†	1024.3	493 ug/L	1.7	493 ug/L	1.7	0.34%
Sb 206.836†	1056.9	481 ug/L	1.4	481 ug/L	1.4	0.30%
Se 196.026†	357.8	493 ug/L	5.3	493 ug/L	5.3	1.08%
Sn 189.927†	1055.3	485 ug/L	1.5	485 ug/L	1.5	0.31%
Sr 421.552†	500220.6	697 ug/L	5.5	697 ug/L	5.5	0.79%
Ti 334.940†	333521.2	547 ug/L	0.7	547 ug/L	0.7	0.12%
Tl 190.801†	760.3	495 ug/L	5.5	495 ug/L	5.5	1.11%
V 292.402†	26596.9	507 ug/L	4.6	507 ug/L	4.6	0.90%
Zn 206.200†	7525.1	505 ug/L	1.5	505 ug/L	1.5	0.30%

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Sequence No.: 18                               Autosampler Location: 4
Sample ID: CCV                                 Date Collected: 5/10/2012 1:12:37 PM
Analyst:                                       Data Type: Original
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	250357.6	99.7 %	0.59			0.59%
Sc 361.383	2465818.1	98.5 %	1.00			1.02%
Ag 328.068†	89000.6	502 ug/L	6.3	502 ug/L	6.3	1.26%
QC value within limits for Ag	328.068	Recovery = 100.37%				
Al 308.215†	43738.6	24400 ug/L	96.2	24400 ug/L	96.2	0.39%
QC value within limits for Al	308.215	Recovery = 97.76%				
As 188.979†	709.6	500 ug/L	6.6	500 ug/L	6.6	1.32%
QC value within limits for As	188.979	Recovery = 100.05%				
Ba 233.527†	43814.5	494 ug/L	5.6	494 ug/L	5.6	1.13%
QC value within limits for Ba	233.527	Recovery = 98.74%				
Be 234.861†	75917.2	496 ug/L	1.6	496 ug/L	1.6	0.32%
QC value within limits for Be	234.861	Recovery = 99.21%				
Ca 315.887†	229119.4	24700 ug/L	35.2	24700 ug/L	35.2	0.14%
QC value within limits for Ca	315.887	Recovery = 98.65%				
Cd 226.502†	4488.3	505 ug/L	3.2	505 ug/L	3.2	0.64%
QC value within limits for Cd	226.502	Recovery = 100.94%				
Co 228.616†	14004.7	500 ug/L	6.9	500 ug/L	6.9	1.38%
QC value within limits for Co	228.616	Recovery = 100.07%				
Cr 267.716†	27299.2	506 ug/L	7.6	506 ug/L	7.6	1.51%
QC value within limits for Cr	267.716	Recovery = 101.19%				
Cu 324.752†	144235.1	490 ug/L	2.3	490 ug/L	2.3	0.47%
QC value within limits for Cu	324.752	Recovery = 97.95%				
Fe 259.939†	621219.3	39900 ug/L	130.8	39900 ug/L	130.8	0.33%
QC value within limits for Fe	259.939	Recovery = 99.87%				
K 766.490†	129099.0	24800 ug/L	25.5	24800 ug/L	25.5	0.10%
QC value within limits for K	766.490	Recovery = 99.10%				
Mg 279.077†	331135.9	24800 ug/L	411.5	24800 ug/L	411.5	1.66%
QC value within limits for Mg	279.077	Recovery = 99.14%				
Mn 257.610†	402656.6	504 ug/L	3.4	504 ug/L	3.4	0.68%
QC value within limits for Mn	257.610	Recovery = 100.86%				
Mo 202.031†	2405.3	502 ug/L	4.8	502 ug/L	4.8	0.95%
QC value within limits for Mo	202.031	Recovery = 100.42%				
Na 589.592†	285596.5	25200 ug/L	105.3	25200 ug/L	105.3	0.42%
QC value within limits for Na	589.592	Recovery = 100.67%				
Ni 231.604†	6249.9	506 ug/L	6.7	506 ug/L	6.7	1.33%
QC value within limits for Ni	231.604	Recovery = 101.28%				
Pb 220.353†	1043.1	501 ug/L	8.1	501 ug/L	8.1	1.61%
QC value within limits for Pb	220.353	Recovery = 100.18%				
Sb 206.836†	1068.9	487 ug/L	7.4	487 ug/L	7.4	1.51%
QC value within limits for Sb	206.836	Recovery = 97.36%				
Se 196.026†	360.2	490 ug/L	5.5	490 ug/L	5.5	1.13%
QC value within limits for Se	196.026	Recovery = 97.98%				
Sn 189.927†	893.1	406 ug/L	4.6	406 ug/L	4.6	1.13%
QC value within limits for Sn	189.927	Recovery = 101.48%				
Sr 421.552†	286534.1	399 ug/L	4.4	399 ug/L	4.4	1.10%
QC value within limits for Sr	421.552	Recovery = 99.87%				
Ti 334.940†	245891.2	403 ug/L	1.5	403 ug/L	1.5	0.36%
QC value within limits for Ti	334.940	Recovery = 100.79%				
Tl 190.801†	782.5	509 ug/L	11.8	509 ug/L	11.8	2.32%
QC value within limits for Tl	190.801	Recovery = 101.85%				
V 292.402†	26087.9	500 ug/L	6.0	500 ug/L	6.0	1.20%
QC value within limits for V	292.402	Recovery = 99.94%				
Zn 206.200†	7584.0	509 ug/L	6.7	509 ug/L	6.7	1.31%
QC value within limits for Zn	206.200	Recovery = 101.82%				

All analyte(s) passed QC.

Sequence No.: 19
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 5/10/2012 1:17:56 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc Radial	244851.9	97.6 %	1.16			1.19%
Sc 361.383	2486475.9	99.3 %	0.69			0.69%
Ag 328.068†	59.1	0.271 ug/L	0.1848	0.271 ug/L	0.1848	68.31%
QC value within limits for Ag	328.068	Recovery =	Not calculated			
Al 308.215†	22.5	10.3 ug/L	4.22	10.3 ug/L	4.22	41.03%
QC value within limits for Al	308.215	Recovery =	Not calculated			
As 188.979†	0.4	0.697 ug/L	3.8378	0.697 ug/L	3.8378	550.65%
QC value within limits for As	188.979	Recovery =	Not calculated			
Ba 233.527†	19.8	0.270 ug/L	0.0575	0.270 ug/L	0.0575	21.28%
QC value within limits for Ba	233.527	Recovery =	Not calculated			
Be 234.861†	22.8	0.192 ug/L	0.0178	0.192 ug/L	0.0178	9.26%
QC value within limits for Be	234.861	Recovery =	Not calculated			
Ca 315.887†	156.6	2.06 ug/L	2.447	2.06 ug/L	2.447	118.70%
QC value within limits for Ca	315.887	Recovery =	Not calculated			
Cd 226.502†	4.0	0.468 ug/L	0.1615	0.468 ug/L	0.1615	34.50%
QC value within limits for Cd	226.502	Recovery =	Not calculated			
Co 228.616†	6.5	0.246 ug/L	0.2263	0.246 ug/L	0.2263	91.82%
QC value within limits for Co	228.616	Recovery =	Not calculated			
Cr 267.716†	-1.7	-0.176 ug/L	0.1249	-0.176 ug/L	0.1249	70.85%
QC value within limits for Cr	267.716	Recovery =	Not calculated			
Cu 324.752†	-38.6	-0.028 ug/L	0.0524	-0.028 ug/L	0.0524	188.25%
QC value within limits for Cu	324.752	Recovery =	Not calculated			
Fe 259.939†	291.8	17.8 ug/L	1.62	17.8 ug/L	1.62	9.10%
QC value within limits for Fe	259.939	Recovery =	Not calculated			
K 766.490†	49.0	-6.17 ug/L	29.348	-6.17 ug/L	29.348	475.58%
QC value within limits for K	766.490	Recovery =	Not calculated			
Mg 279.077†	164.6	8.74 ug/L	4.548	8.74 ug/L	4.548	52.04%
QC value within limits for Mg	279.077	Recovery =	Not calculated			
Mn 257.610†	28.0	-0.252 ug/L	0.0204	-0.252 ug/L	0.0204	8.09%
QC value within limits for Mn	257.610	Recovery =	Not calculated			
Mo 202.031†	3.8	0.333 ug/L	0.6592	0.333 ug/L	0.6592	198.06%
QC value within limits for Mo	202.031	Recovery =	Not calculated			
Na 589.592†	44.6	4.56 ug/L	2.338	4.56 ug/L	2.338	51.24%
QC value within limits for Na	589.592	Recovery =	Not calculated			
Ni 231.604†	3.7	-0.166 ug/L	0.2078	-0.166 ug/L	0.2078	125.03%
QC value within limits for Ni	231.604	Recovery =	Not calculated			
Pb 220.353†	3.7	0.993 ug/L	1.2847	0.993 ug/L	1.2847	129.38%
QC value within limits for Pb	220.353	Recovery =	Not calculated			
Sb 206.836†	-1.1	0.969 ug/L	0.8045	0.969 ug/L	0.8045	83.06%
QC value within limits for Sb	206.836	Recovery =	Not calculated			
Se 196.026†	-3.2	-0.870 ug/L	1.9669	-0.870 ug/L	1.9669	226.06%
QC value within limits for Se	196.026	Recovery =	Not calculated			
Sn 189.927†	-3.8	0.246 ug/L	0.5728	0.246 ug/L	0.5728	232.41%
QC value within limits for Sn	189.927	Recovery =	Not calculated			
Sr 421.552†	127.5	0.162 ug/L	0.0330	0.162 ug/L	0.0330	20.39%
QC value within limits for Sr	421.552	Recovery =	Not calculated			
Ti 334.940†	94.0	0.095 ug/L	0.0537	0.095 ug/L	0.0537	56.42%
QC value within limits for Ti	334.940	Recovery =	Not calculated			
Tl 190.801†	0.6	-0.635 ug/L	4.0454	-0.635 ug/L	4.0454	637.25%
QC value within limits for Tl	190.801	Recovery =	Not calculated			
V 292.402†	10.2	0.162 ug/L	0.1335	0.162 ug/L	0.1335	82.66%
QC value within limits for V	292.402	Recovery =	Not calculated			
Zn 206.200†	-3.9	-0.933 ug/L	0.1958	-0.933 ug/L	0.1958	20.98%
QC value within limits for Zn	206.200	Recovery =	Not calculated			

All analyte(s) passed QC.

STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44322	ICP_MAJ_SPK	CPI	11J138	4/20/2013	1000 ML	12/27/2011	troberts

2500000 UG/L: Aluminum, Calcium, Iron, Magnesium, Potassium, Sodium

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45139	HNO3	fisher	1111101	11/30/2014	2.5 L	12/11/2011	ddthompson

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45240	ICP_MIN_SPK	CPI	12B186	8/23/2013	1000 ML	3/2/2012	troberts

10000 UG/L: Silver
 25000 UG/L: Antimony, Arsenic, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Selenium, Strontium, Thallium, Tin, Titanium, Vanadium
 Zinc
 250000 UG/L: Lithium
 75000 UG/L: Barium

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45241	ICP_ICSA			6/30/2012	1000 ML	3/2/2012	troberts

225000 UG/L: Iron
 250000 UG/L: Aluminum, Calcium, Magnesium

COMPOSED OF:

43771: 12.5 ML 44886: 50 ML 45611: 937.5 ML

3505843

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STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45248	ICP_ICSAB			6/30/2012	1000 ML	3/2/2012	troberts
100 UG/L: Arsenic, Thallium 1000 UG/L: Cadmium, Nickel, Zinc 200 UG/L: Silver 225000 UG/L: Iron 250000 UG/L: Aluminum, Calcium, Magnesium 50 UG/L: Lead, Selenium 500 UG/L: Barium, Beryllium, Chromium, Cobalt, Copper, Manganese, Molybdenum, Strontium, Tin, Titanium, Vanadium 600 UG/L: Antimony COMPOSED OF: 41678: 0.5 ML 41679: 0.5 ML 43771: 12.5 ML 44881: 10 ML 44883: 0.5 ML 44886: 50 ML 45611: 925.2 ML 45661: 0.5 ML							
Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45319	ICP_CRDL_AF			6/30/2012	200 ML	3/9/2012	troberts
10 UG/L: Barium, Chromium, Cobalt, Copper, Manganese, Silver, Tin, Vanadium 1000 UG/L: Calcium, Magnesium, Potassium, Sodium 15 UG/L: Molybdenum 20 UG/L: Lead, Zinc 200 UG/L: Aluminum 25 UG/L: Nickel 30 UG/L: Arsenic, Selenium 4 UG/L: Beryllium 5 UG/L: Cadmium, Strontium, Titanium 50 UG/L: Antimony, Iron 60 UG/L: Thallium COMPOSED OF: 45318: 2 ML 45611: 198 ML							
Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45433	ICP_ICV			6/30/2012	500 ML	3/20/2012	troberts
1200 UG/L: Barium 160 UG/L: Silver 400 UG/L: Antimony, Arsenic, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Selenium, Strontium, Thallium, Tin, Titanium, Vanadium, 4000 UG/L: Lithium 40000 UG/L: Aluminum, Calcium, Iron, Magnesium, Potassium, Sodium							

3505843

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STANDARDS LOG

COMPOSED OF:

44322: 8 ML 44402: 8 ML 45611: 484 ML

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45535	HCl	Fisher	4110080	9/30/2013	2.5 L	3/26/2012	jbowman

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45623	ICP_CAL5			6/30/2012	250 ML	4/2/2012	troberts

250000 UG/L: Aluminum, Calcium, Magnesium, Potassium, Sodium
 4000 UG/L: Strontium, Tin, Titanium
 400000 UG/L: Iron
 5000 UG/L: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc
 50000 UG/L: Lithium

COMPOSED OF:

42356: 12.5 ML 42357: 50 ML 44886: 12.5 ML 45622: 175 ML

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45624	ICP_CAL4/CCV			6/30/2012	1000 ML	4/2/2012	troberts

25000 UG/L: Aluminum, Calcium, Magnesium, Potassium, Sodium
 400 UG/L: Strontium, Tin, Titanium
 40000 UG/L: Iron
 500 UG/L: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc
 5000 UG/L: Lithium

COMPOSED OF:

45622: 900 ML 45623: 100 ML

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45625	ICP_CAL3			6/30/2012	250 ML	4/2/2012	troberts

2500 UG/L: Aluminum, Calcium, Magnesium, Potassium, Sodium
 40 UG/L: Strontium, Tin, Titanium
 4000 UG/L: Iron
 50 UG/L: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc
 500 UG/L: Lithium

3505843

3340

STANDARDS LOG

COMPOSED OF:

45622: 247.5 ML 45623: 2.5 ML

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45626	ICP_CAL2			6/30/2012	250 ML	4/2/2012	troberts

250 UG/L: Aluminum, Calcium, Magnesium, Potassium, Sodium

4 UG/L: Strontium, Tin, Titanium

400 UG/L: Iron

5 UG/L: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc

50 UG/L: Lithium

COMPOSED OF:

45622: 249.75 ML 45623: 0.25 ML

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45627	ICP_CAL1			6/30/2012	250 ML	4/2/2012	troberts

0.4 UG/L: Strontium, Tin, Titanium

0.5 UG/L: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc

25 UG/L: Aluminum, Calcium, Magnesium, Potassium, Sodium

40 UG/L: Iron

5 UG/L: Lithium

COMPOSED OF:

45622: 249.975 ML 45623: 0.025 ML

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45964	Hydrogen Peroxide	J. T. Baker	L10J09	4/20/2013	900 mL	4/20/2012	ddthompson

3505843

3341

Raw Data Inorganics/Metals

Spectrum Analytical, Inc. Florida Division

Prepared by: JB
 PREP Batch: 042612A

Date Prepared: 4/26/12

Reagents: PM#
 KMnO₄ 45741
 K₂S₂O₈ 45655
 HCl NA
 HNO₃ 45139
 H₂SO₄ 42793
 Hydrox. 45740
 Carrier 45992
 Reductant 45993

LCS/MS/SD Spike: MET# 45799

LCS/MS/SD Spike amount: 0.075 mL

CAL Spike: MET# 45797, 45798

Pipette(s) Used for Spikes: P6 Wc4

Balance ID: NA

Glass Beads ID: NA

Filter Lot #: NA

Thermometer ID: 289366

Dig Tube: 1202052

Water Bath Temperature: 95 °C

Methods: <u>Water 7470/7470A</u> <u>Soil 7471A/7471B</u>		Start time: <u>11:40</u>	Stop time: <u>14:01</u>			
Tube#	Container #	Sample ID	ID	Weight (g) or Volume (mL) 3 Sig Fig	Final volume (mL)	Comment or Notification:
8		<u>Blk 042612A</u>	<u>BLK</u>	<u>25</u>	<u>25.0 mL</u>	<u>7470</u> Pilot Batch #: <u>9213</u>
9		<u>LCS</u>	<u>LCS</u>			Pilot # <u>27643</u>
10		<u>LCSD</u>	<u>LCSD</u>			Pilot # <u>44</u>
11	<u>7</u>	<u>350581602</u>				Pilot # <u>45</u>
12			<u>MS</u>			Pilot # <u>46</u>
13			<u>SD</u>			Pilot # <u>47</u>
2	<u>13</u>	<u>350581704</u>				
3	<u>11</u>	<u>350582701</u>				
4	<u>1</u>	<u>350584313</u>				
5	<u>1</u>	<u>14</u>				
6						
7						
8						
9						
10						AS Pos # Calibration Standards
11						1 CAL BLANK
12						2 CS1 0.200 ug/L 50.0 uL MET# <u>45797</u>
13						3 CS2 0.500 ug/L 125 uL MET# <u>↓</u>
14						4 CS3 1.00 ug/L 25.0 uL MET# <u>45798</u>
15						5 CS4 5.00 ug/L 125 uL MET# <u>↓</u>
16						6 CS5 10.0 ug/L 250 uL MET# <u>↓</u>
17						7 ICV 3.00 ug/L 75.0 uL MET# <u>45799</u>
18						
19						
20						

Method Name: Non-CLP Hg
 Method Description: Hg 7470/7471
 Element: Hg

Date: 04/26/2012
 Technique: FI-MHS
 Calibration Type:
 Hg, Zero Intercept: Linear
 Wavelength: 253.7 nm
 Sample Info Name: 042612A.SIF Results Data Set Name: 042612A

Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 04/26/2012
 Sample ID: Calib Blank

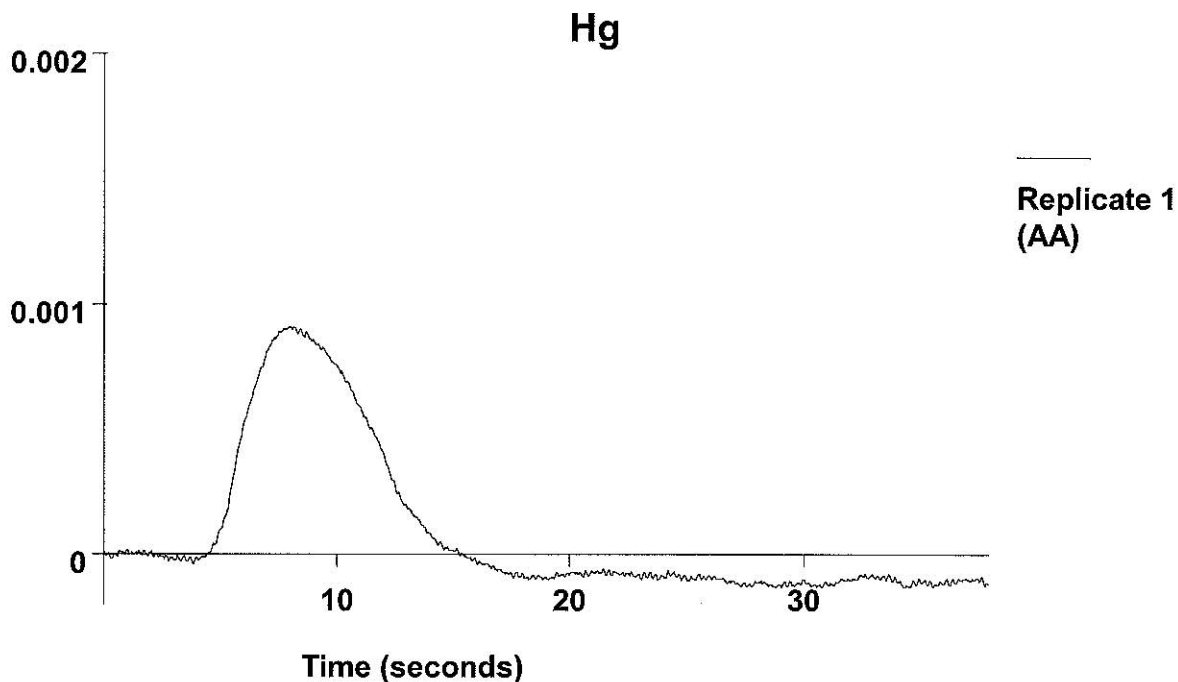
Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
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Method Name: Non-CLP Hg
 Method Description: Hg 7470/7471
 Element: Hg

Date: 04/26/2012
 Technique: FI-MHS
 Calibration Type:
 Hg, Calc. Intercept : Linear
 Wavelength: 253.7 nm
 Sample Info Name: 042612A.SIF Results Data Set Name: 042612A

Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 04/26/2012
 Sample ID: Calib Blank

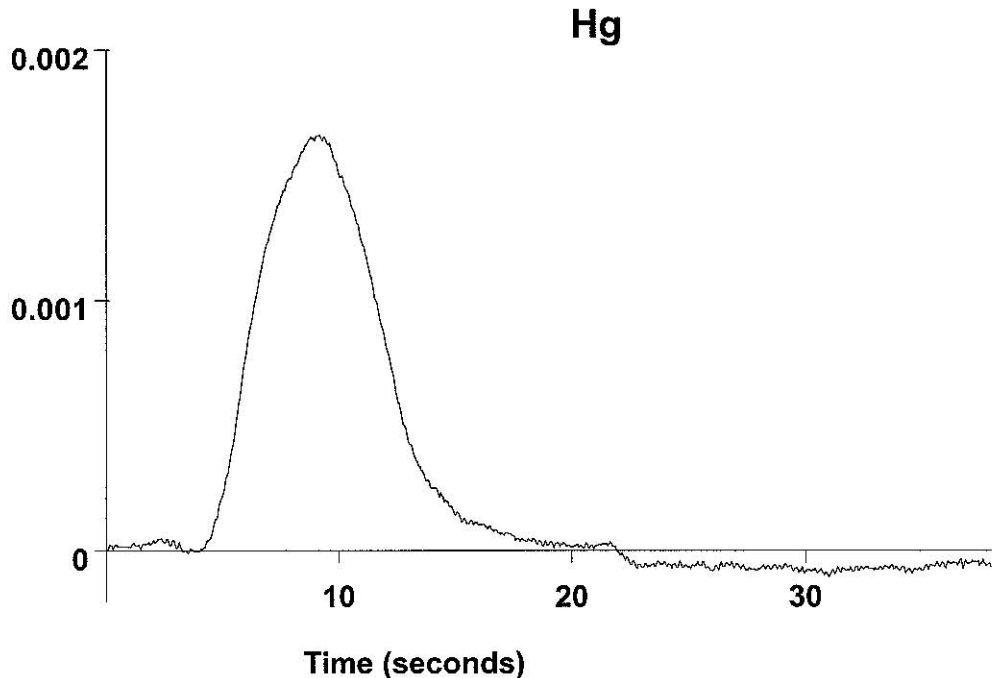
1			0.0009	0.0031	0.0009	03:19:47	Yes
---	--	--	--------	--------	--------	----------	-----



Auto-zero performed.

=====
 Element: Hg Seq. No.: 2 AS Loc.: 2 Date: 04/26/2012
 Sample ID: CS1
 =====

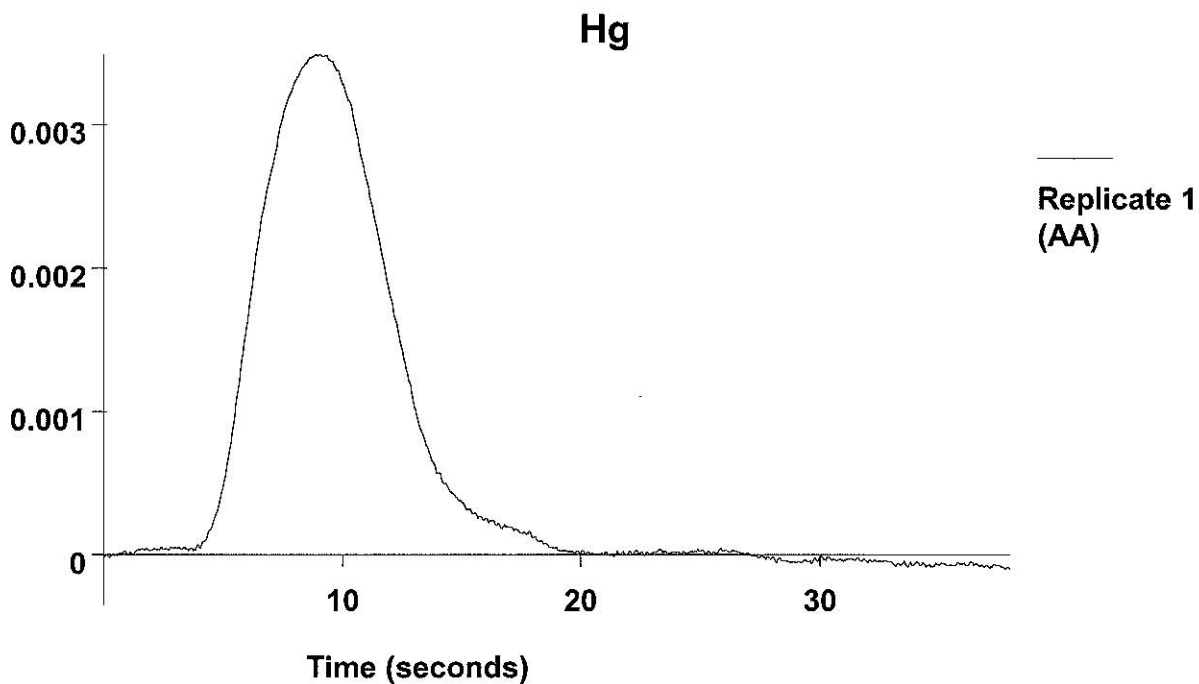
Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0007	0.0092	0.0017	03:21:34	Yes



[Hg] Standard number 1 applied. [0.100]
 Correlation Coefficient: 1.00000 Slope: 0.00750
 Intercept : 0.00000

=====
 Element: Hg Seq. No.: 3 AS Loc.: 3 Date: 04/26/2012
 Sample ID: CS2
 =====

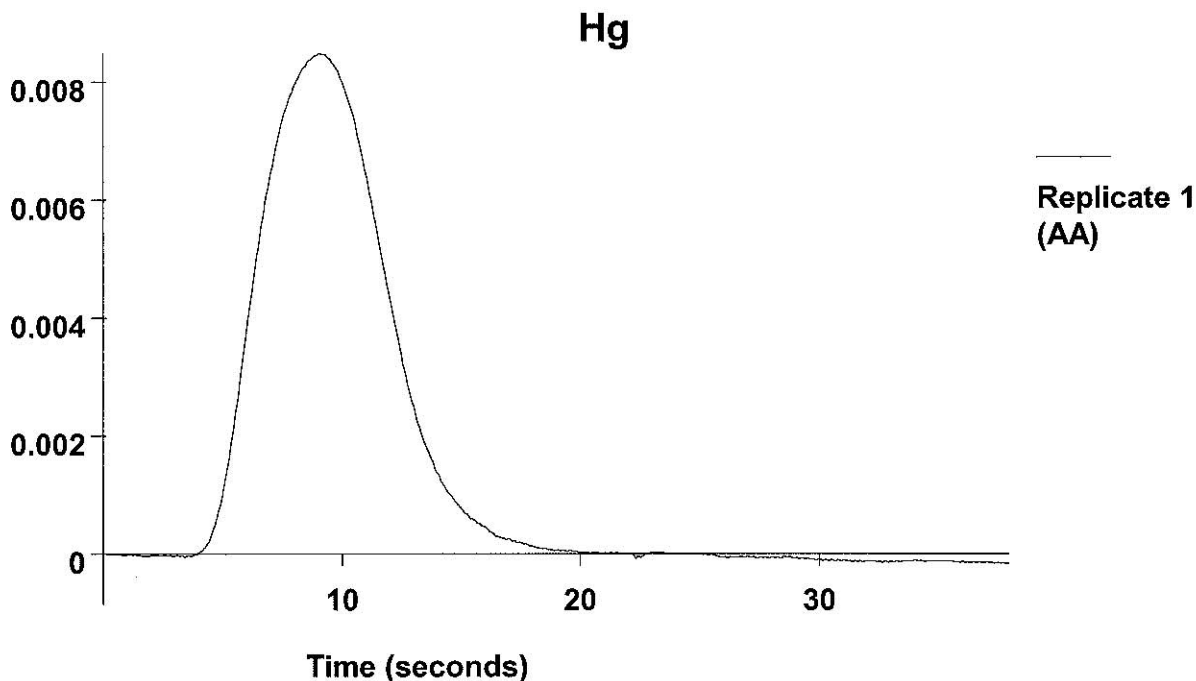
Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0026	0.0217	0.0035	03:23:21	Yes



[Hg] Standard number 2 applied. [0.500]
 Correlation Coefficient: 0.99537 Slope: 0.00499
 Intercept : 0.00011

=====
 Element: Hg Seq. No.: 4 AS Loc.: 4 Date: 04/26/2012
 Sample ID: CS3

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0076	0.0509	0.0085	03:25:10	Yes

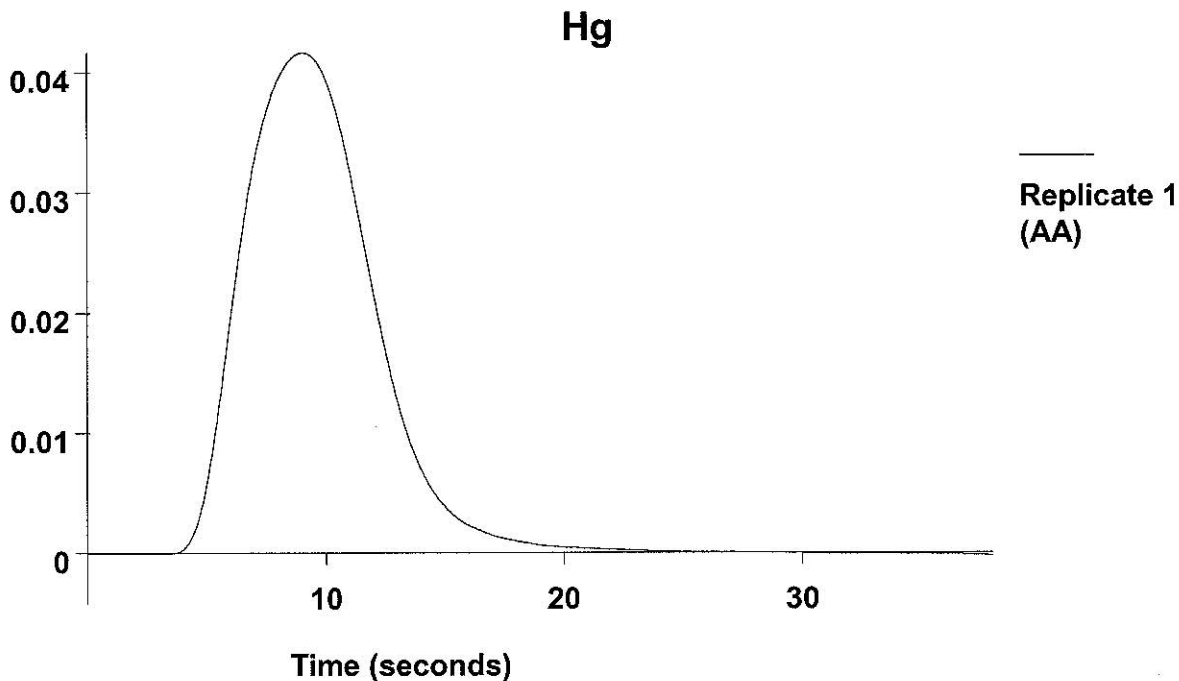


[Hg] Standard number 3 applied. [1.00]
 Correlation Coefficient: 0.98477
 Intercept : -0.00022

Slope: 0.00736

=====
 Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 04/26/2012
 Sample ID: CS4

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0406	0.2614	0.0415	03:27:01	Yes

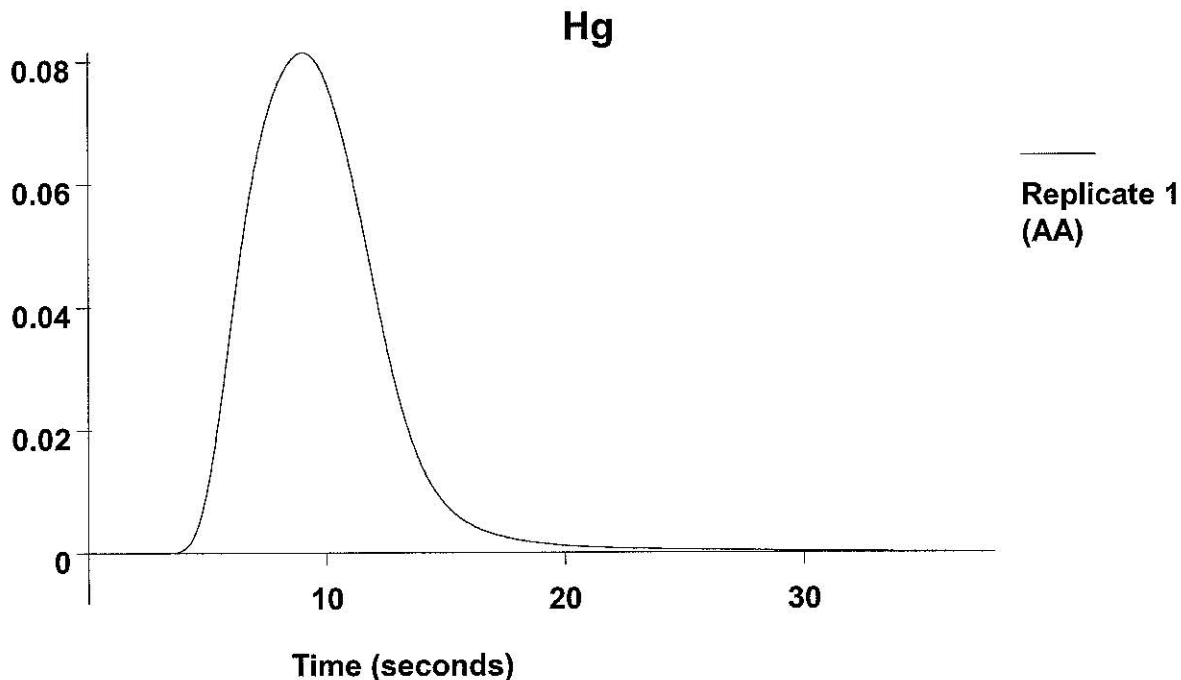


[Hg] Standard number 4 applied. [5.00]
 Correlation Coefficient: 0.99936
 Intercept : -0.00054

Slope: 0.00821

=====
 Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 04/26/2012
 Sample ID: CS5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0804	0.5196	0.0813	03:28:51	Yes

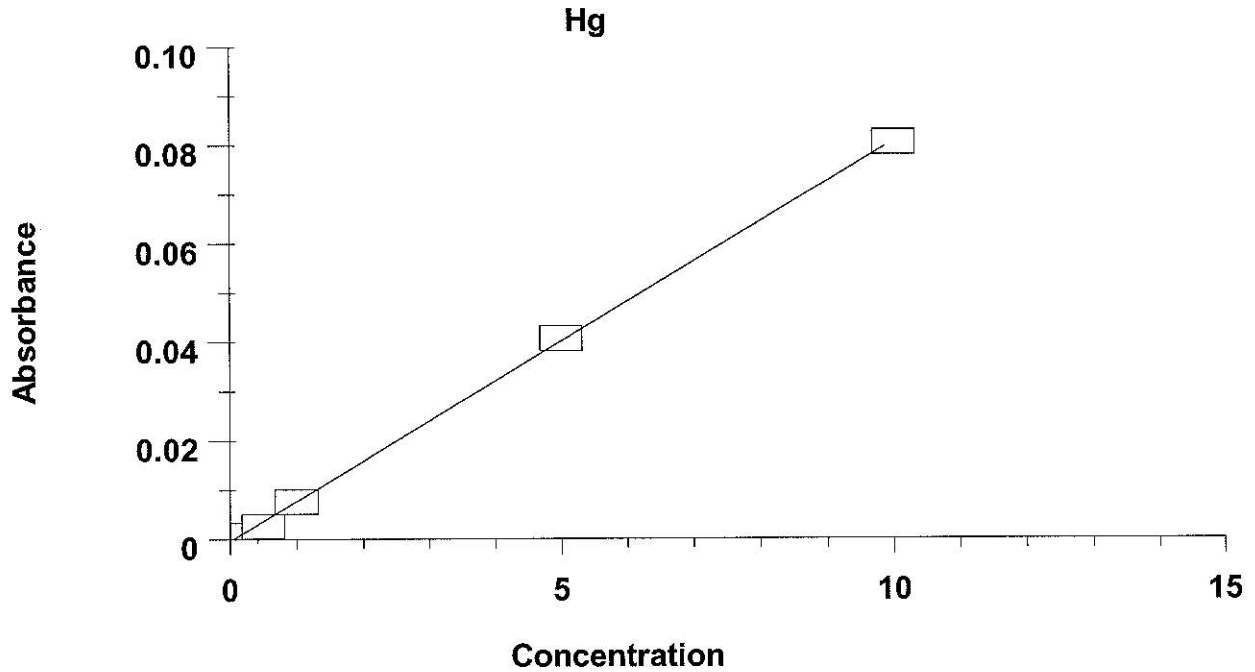


[Hg] Standard number 5 applied. [10.0]
 Correlation Coefficient: 0.99983
 Intercept : -0.00044

Slope: 0.00811

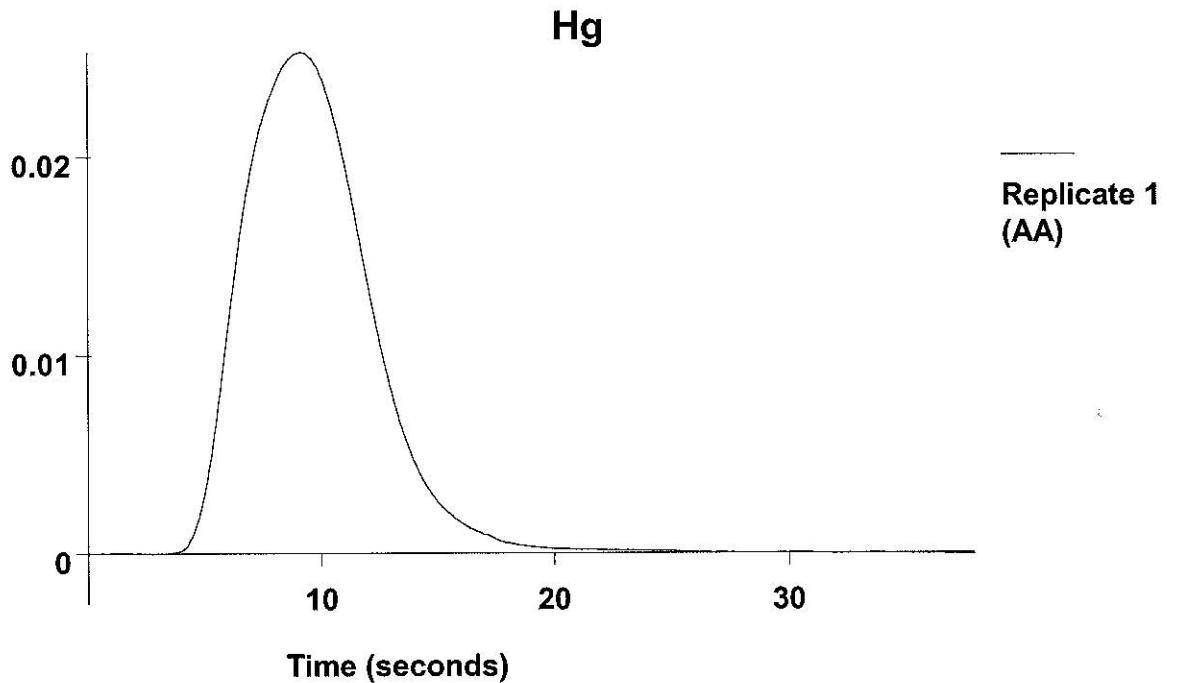
 Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0009	---	----	----	----
CS1	0.0008	0.100	0.147	----	----
CS2	0.0026	0.500	0.373	----	----
CS3	0.0076	1.000	0.986	----	----
CS4	0.0406	5.000	5.07	----	----
CS5	0.0804	10.000	9.97	----	----
Calib Blank	0.0009	---	----	----	----
Correlation Coefficient:		0.99983	Slope:	0.00811	Intercept: -0.0004



=====
 Element: Hg Seq. No.: 7 AS Loc.: 7 Date: 04/26/2012
 Sample ID: ICV
 =====

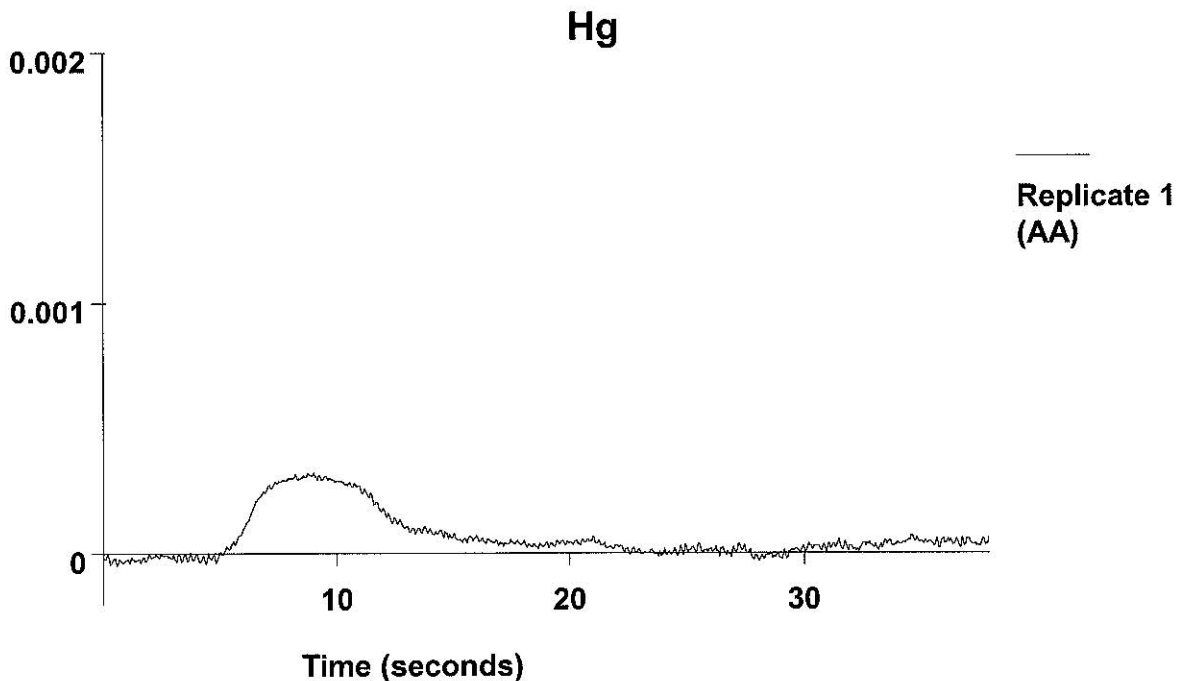
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.05	3.05	0.0243	0.1604	0.0252	1 03:30:48	Yes



QC value within specified limits.

Element: Hg Seq. No.: 8 AS Loc.: 1 Date: 04/26/2012
 Sample ID: ICB

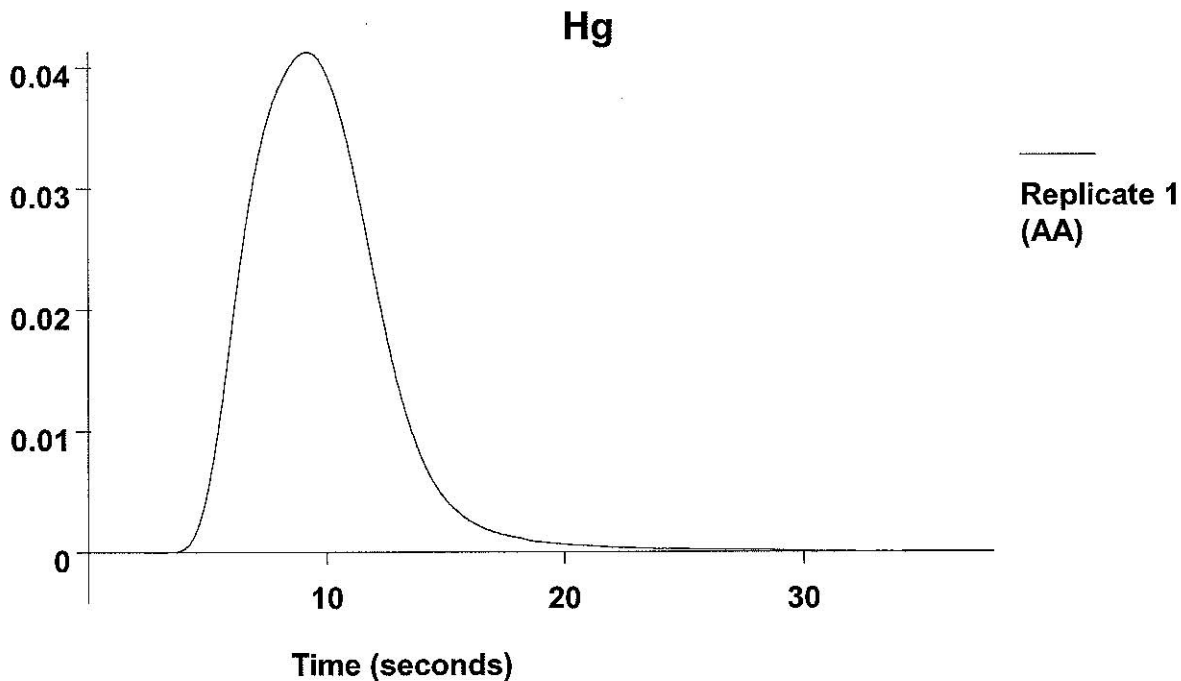
Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.019	-0.019	-0.0006	0.0024	0.0003	1 03:32:36	Yes



QC value within specified limits.

=====
 Element: Hg Seq. No.: 9 AS Loc.: 5 Date: 04/26/2012
 Sample ID: CCV

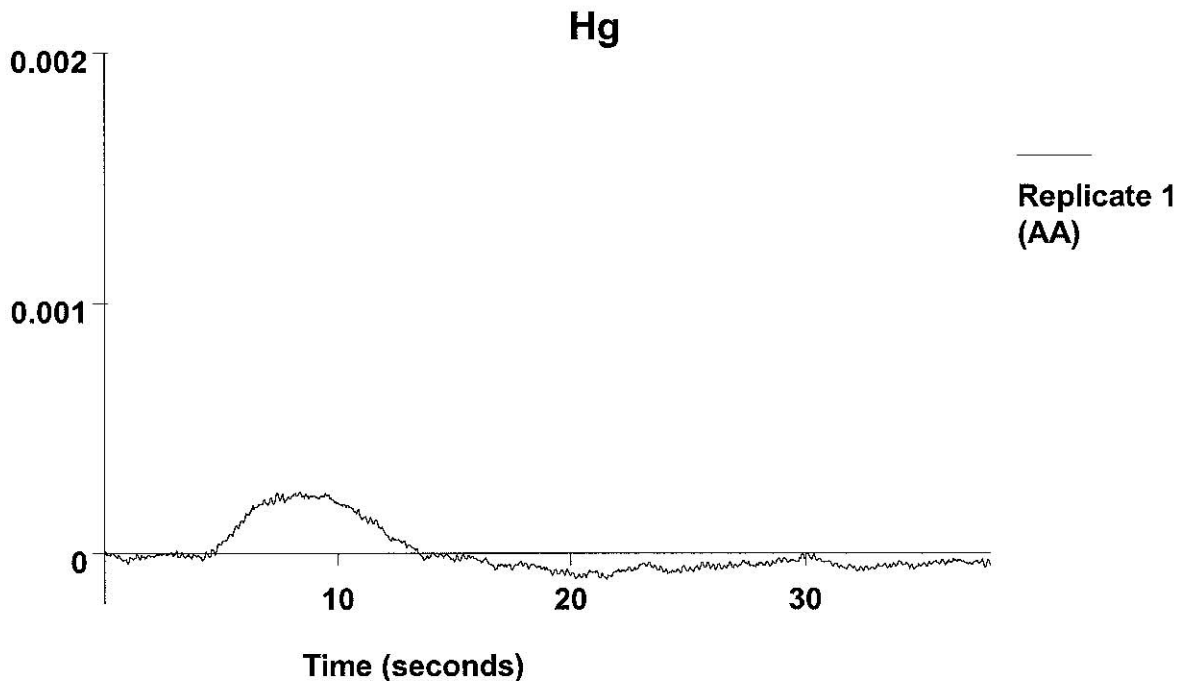
Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.02	5.02	0.0403	0.2647	0.0412	1 03:34:23	Yes



QC value within specified limits.

=====
 Element: Hg Seq. No.: 10 AS Loc.: 1 Date: 04/26/2012
 Sample ID: CCB

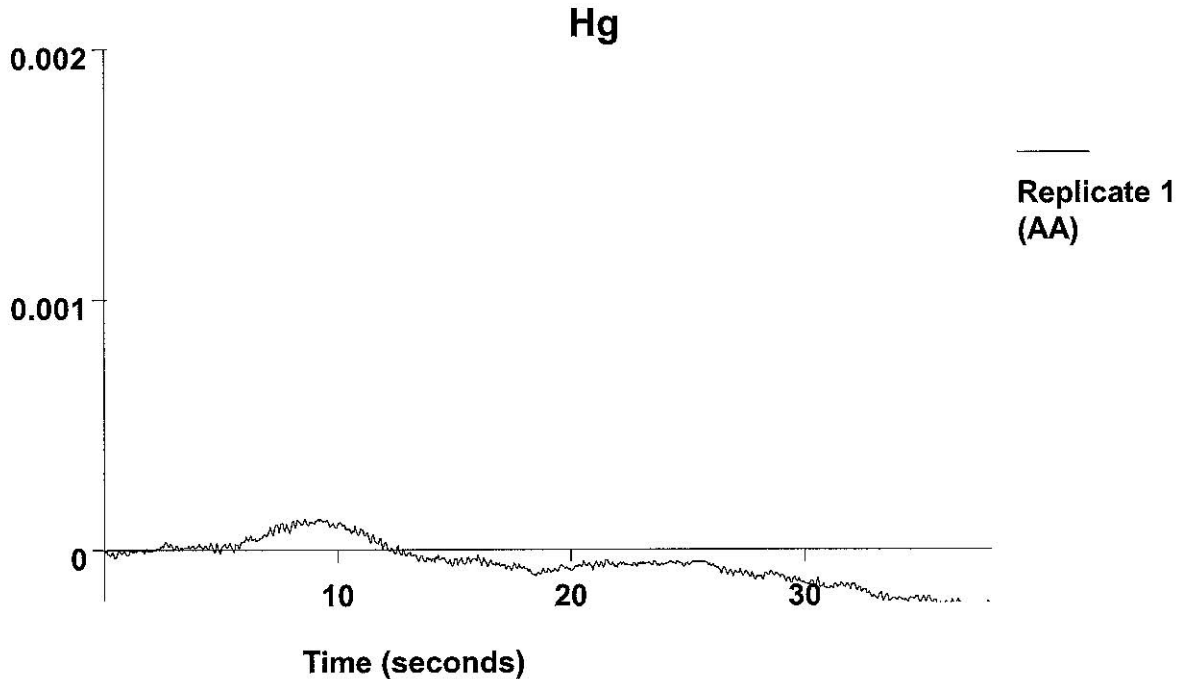
Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.028	-0.028	-0.0007	0.0001	0.0002	1 03:36:12	Yes



QC value within specified limits.

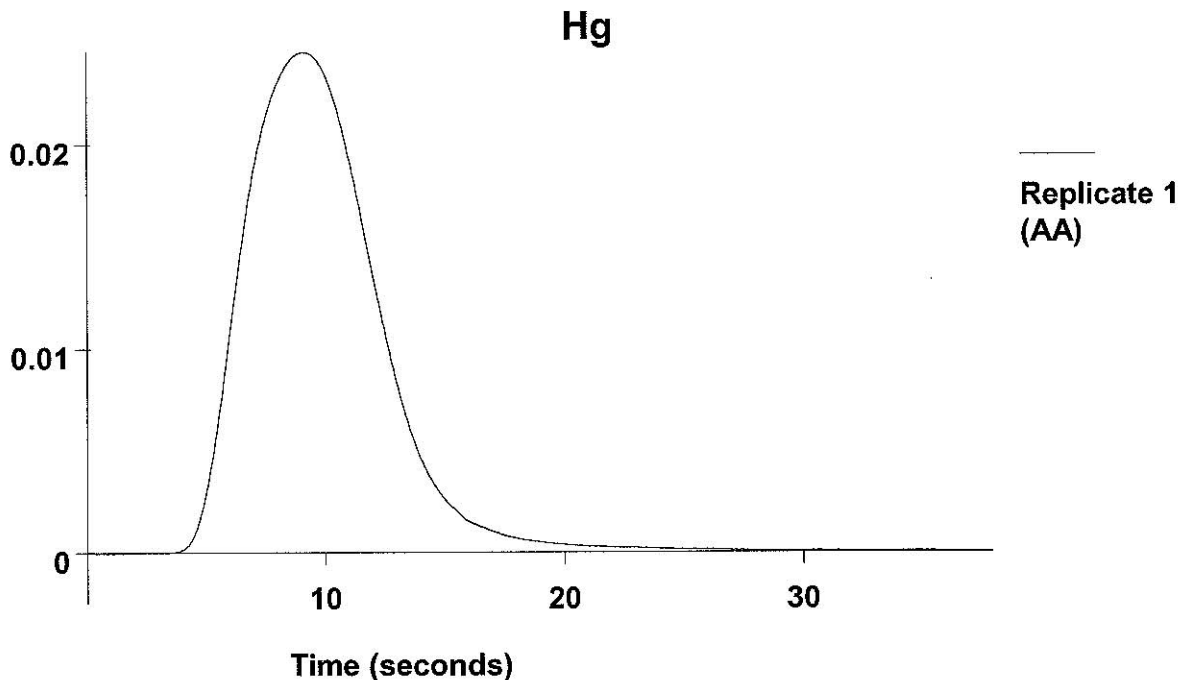
=====
 Element: Hg Seq. No.: 11 AS Loc.: 8 Date: 04/26/2012
 Sample ID: 127643MB

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.042	-0.042	-0.0008	-0.0021	0.0001	1 03:38:02	Yes



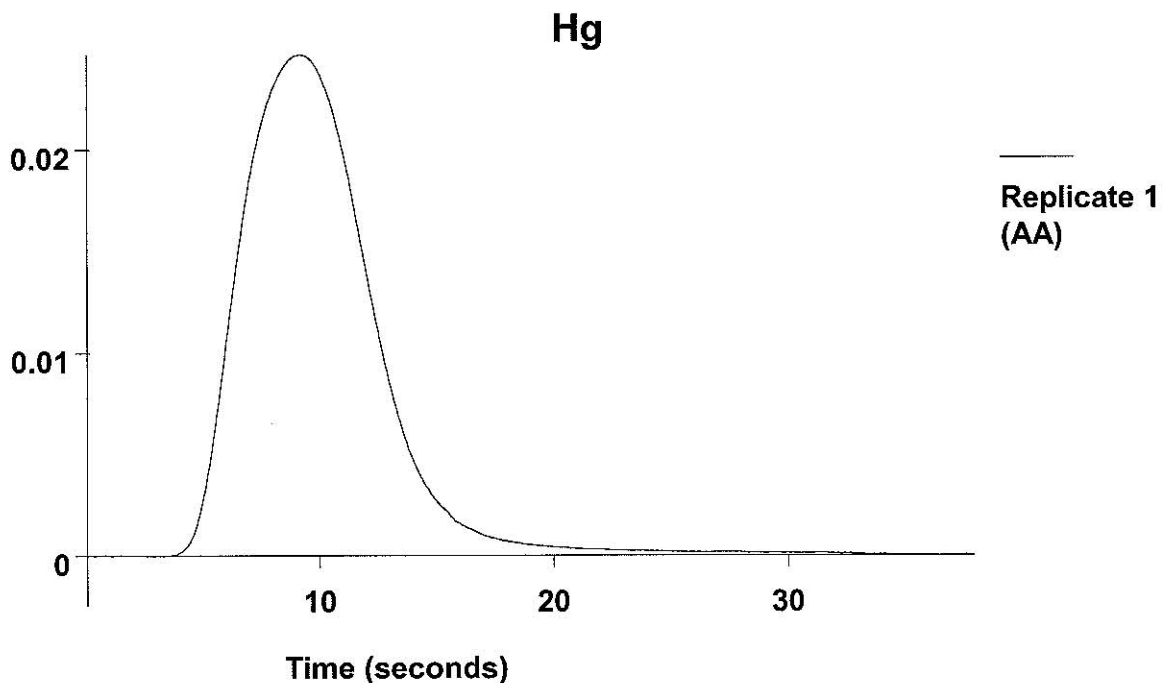
=====
 Element: Hg Seq. No.: 12 AS Loc.: 9 Date: 04/26/2012
 Sample ID: 127644LCS

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.97	2.97	0.0236	0.1586	0.0245	1 03:39:50	Yes



=====
 Element: Hg Seq. No.: 13 AS Loc.: 10 Date: 04/26/2012
 Sample ID: 127645LCSD
 =====

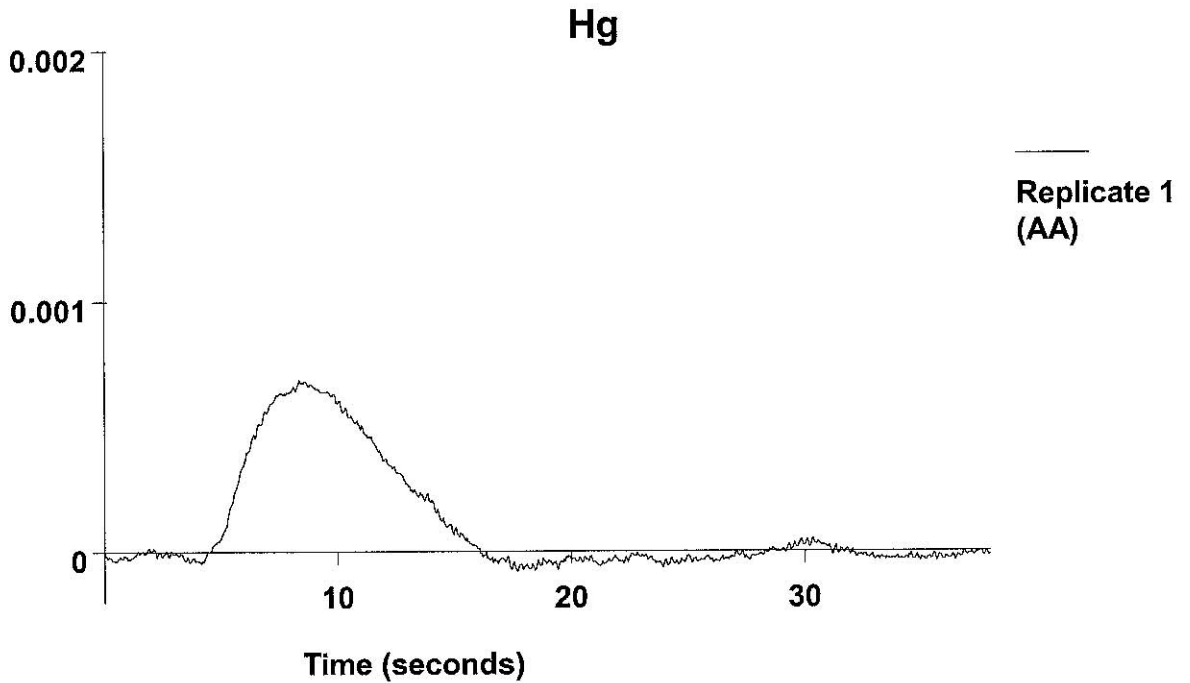
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.98	2.98	0.0237	0.1603	0.0246	1 03:41:36	Yes



=====
 Element: Hg Seq. No.: 14 AS Loc.: 11 Date: 04/26/2012
 =====

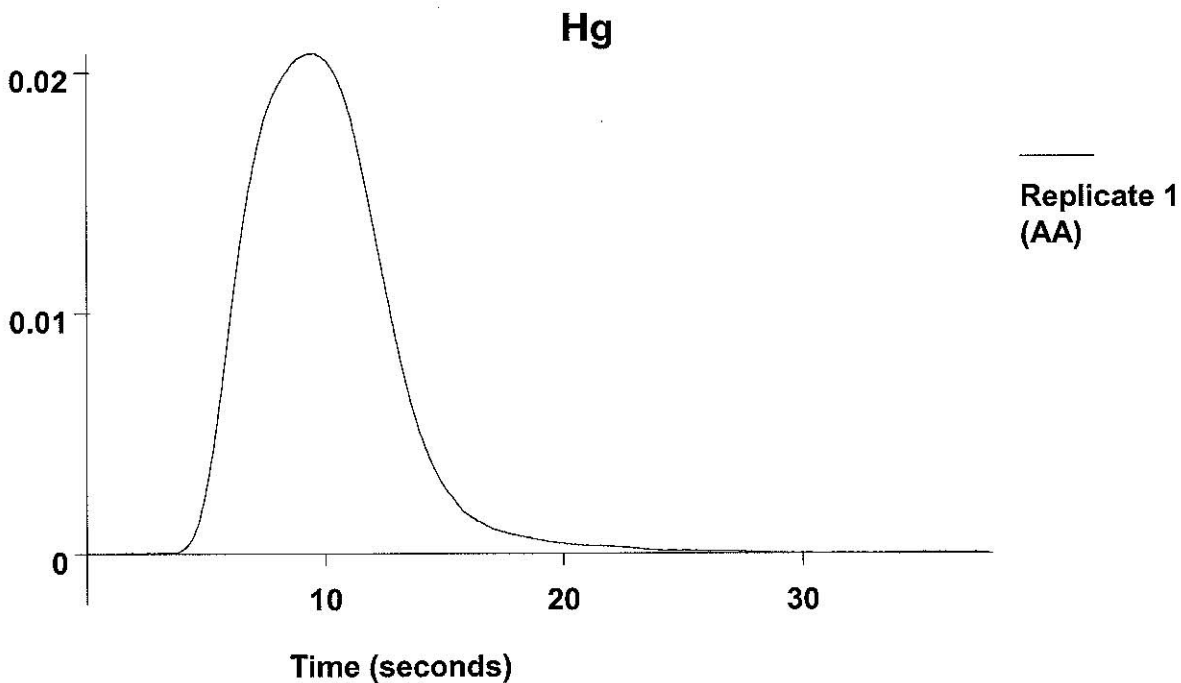
Sample ID: 350581602

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.026	0.026	-0.0002	0.0037	0.0007	1 03:43:23	Yes



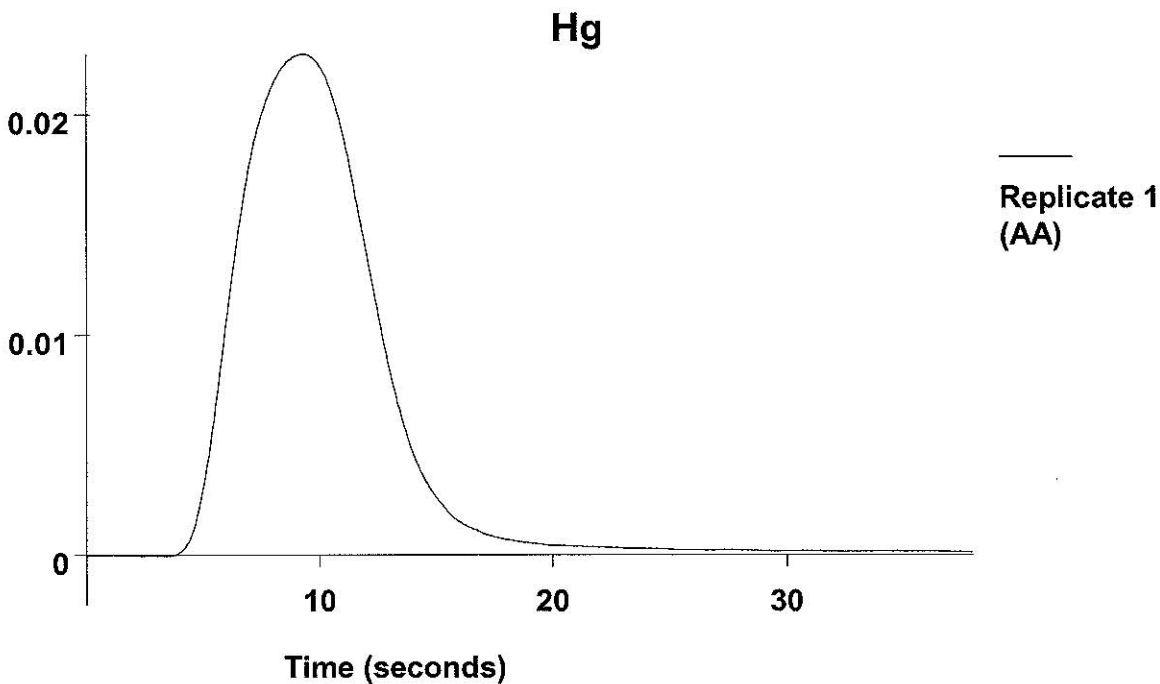
=====
 Element: Hg Seq. No.: 15 AS Loc.: 12 Date: 04/26/2012
 Sample ID: 127646MS
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.50	2.50	0.0198	0.1439	0.0207	1 03:45:11	Yes



```

=====
Element: Hg      Seq. No.: 16      AS Loc.: 13      Date: 04/26/2012
Sample ID: 127647MSD
-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Peak      Time      Peak
#      µg/L          µg/L      Signal    Area      Height    1 03:47:00  Stored
1      2.74          2.74      0.0218   0.1544    0.0227 1 03:47:00  Yes
    
```

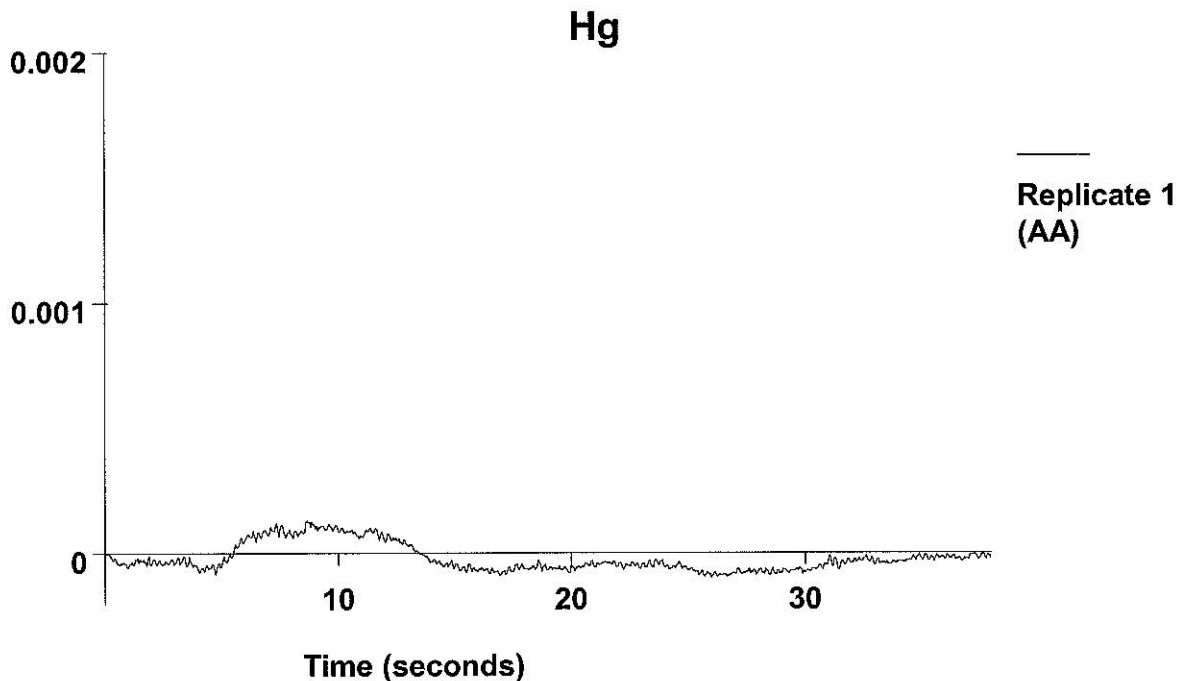


```

=====
Element: Hg      Seq. No.: 17      AS Loc.: 14      Date: 04/26/2012
    
```

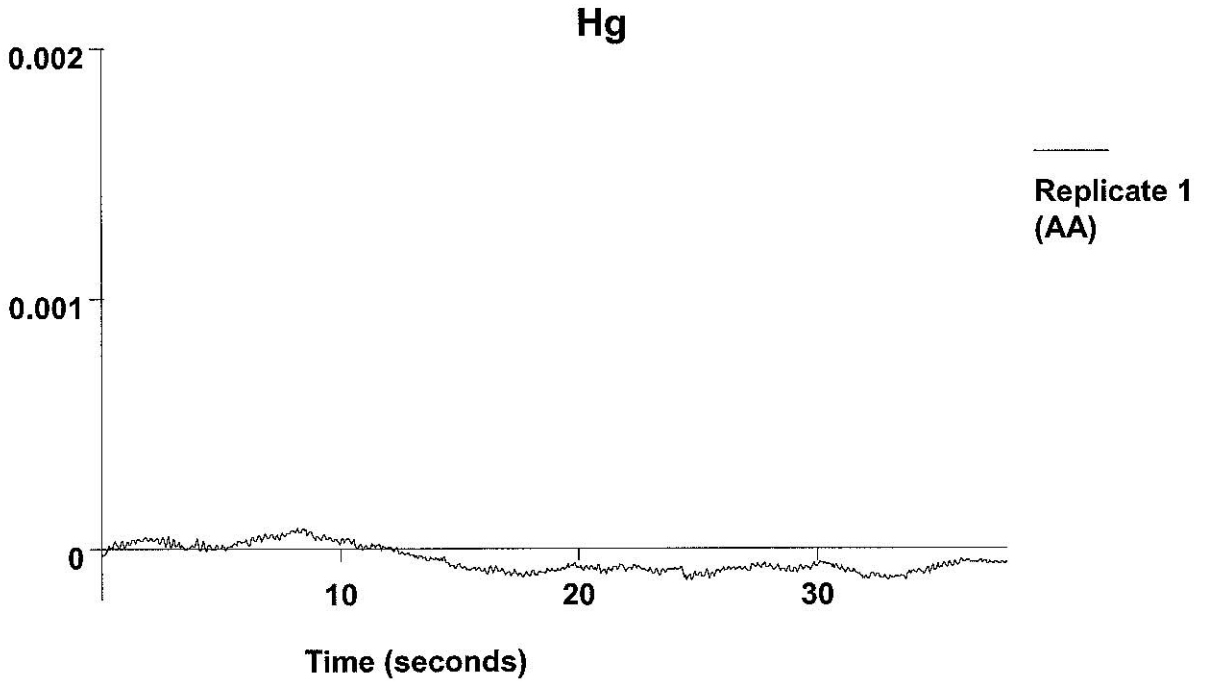
Sample ID: 350581704

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.042	-0.042	-0.0008	-0.0008	0.0001 1	03:48:51	Yes



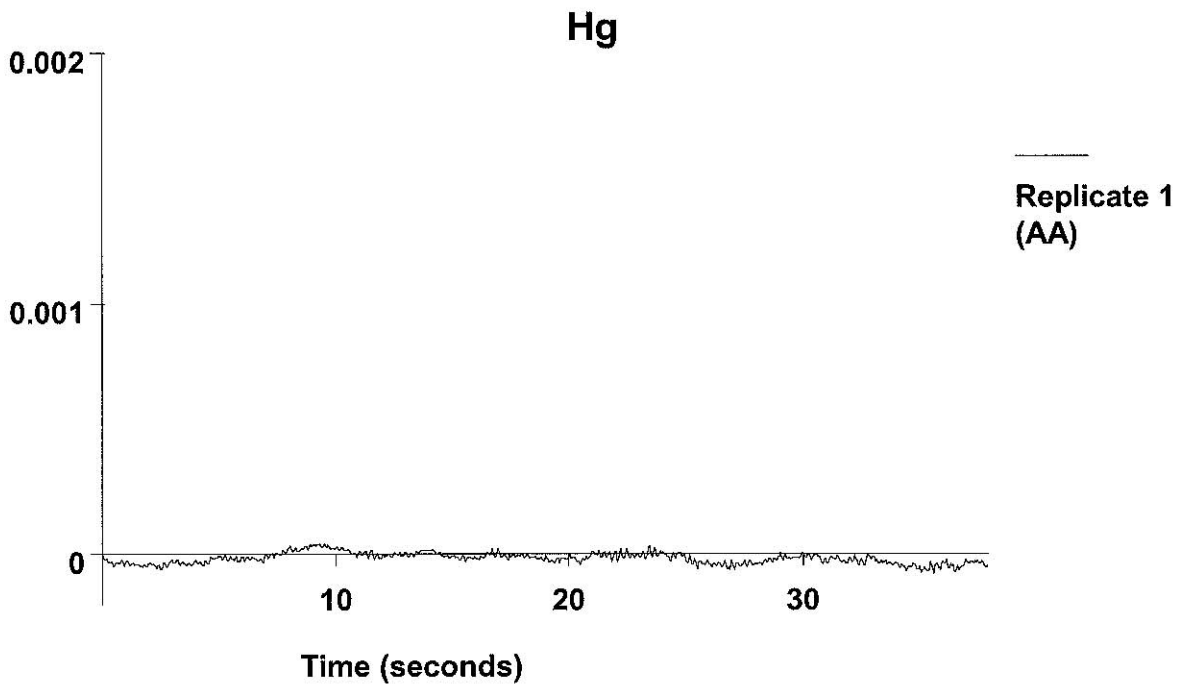
=====
 Element: Hg Seq. No.: 18 AS Loc.: 15 Date: 04/26/2012
 Sample ID: 350582701

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.048	-0.048	-0.0008	-0.0017	0.0001 1	03:50:41	Yes



=====
 Element: Hg Seq. No.: 19 AS Loc.: 16 Date: 04/26/2012
 Sample ID: 350584313

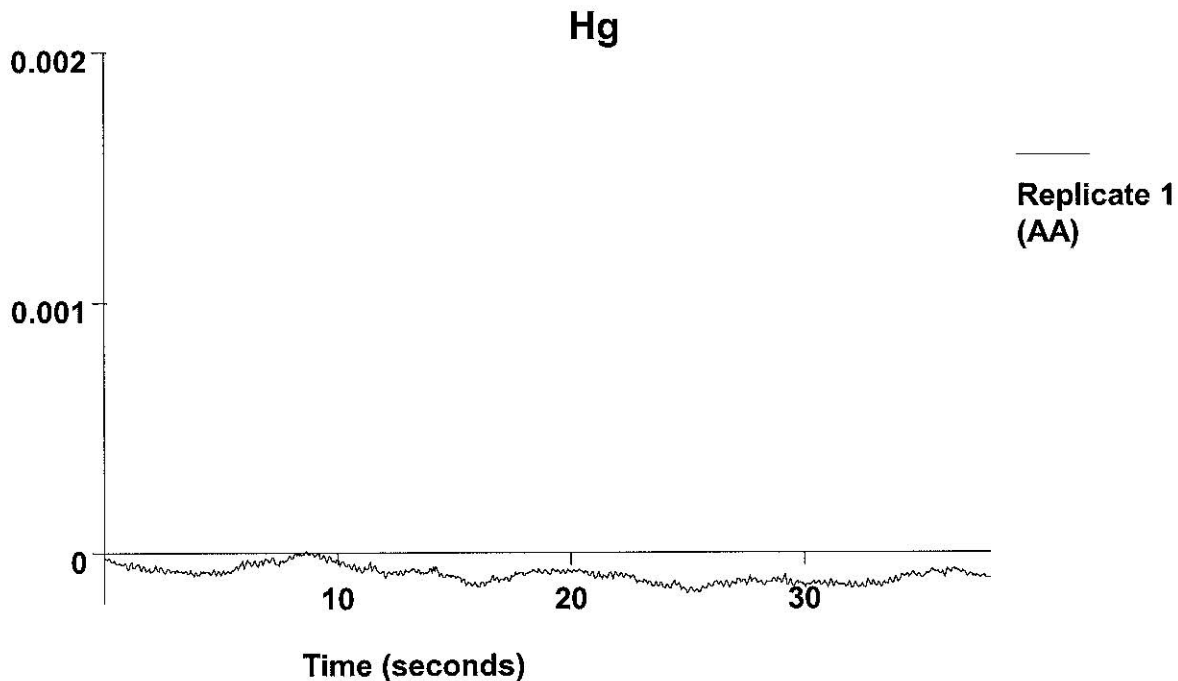
Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.053	-0.053	-0.0009	-0.0007	0.0000	1 03:52:33	Yes



=====
 Element: Hg Seq. No.: 20 AS Loc.: 17 Date: 04/26/2012

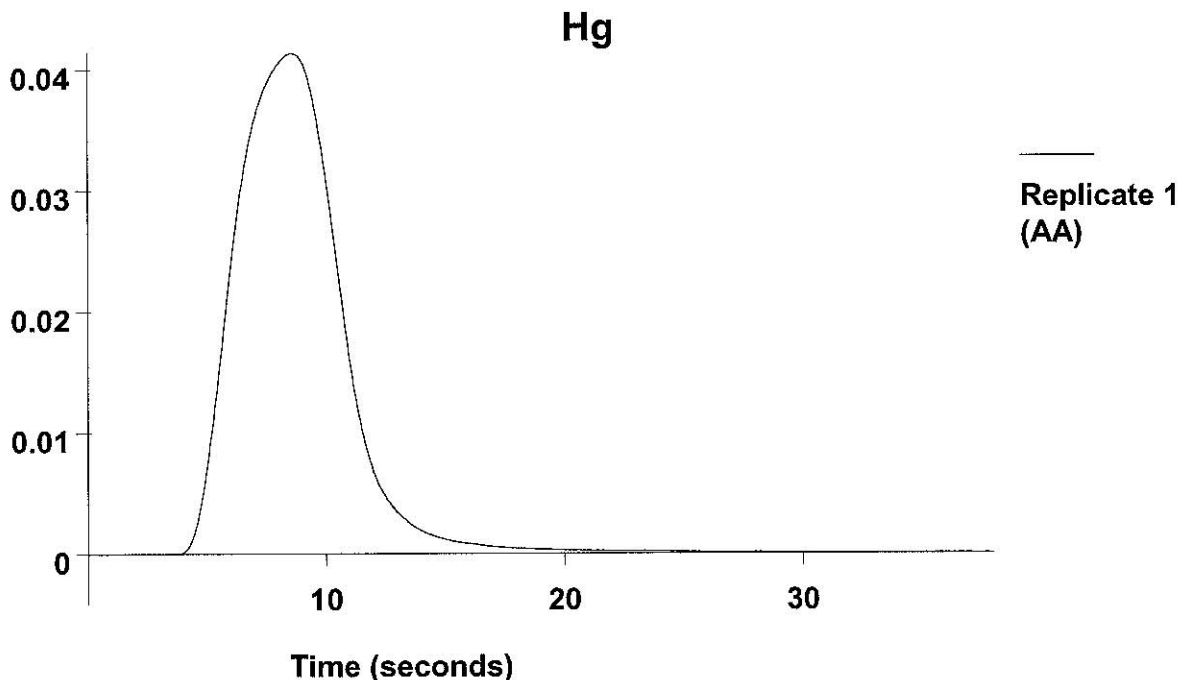
Sample ID: 350584314

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.057	-0.057	-0.0009	-0.0033	0.0000	1 03:54:22	Yes



=====
 Element: Hg Seq. No.: 21 AS Loc.: 5 Date: 04/26/2012
 Sample ID: CCV
 =====

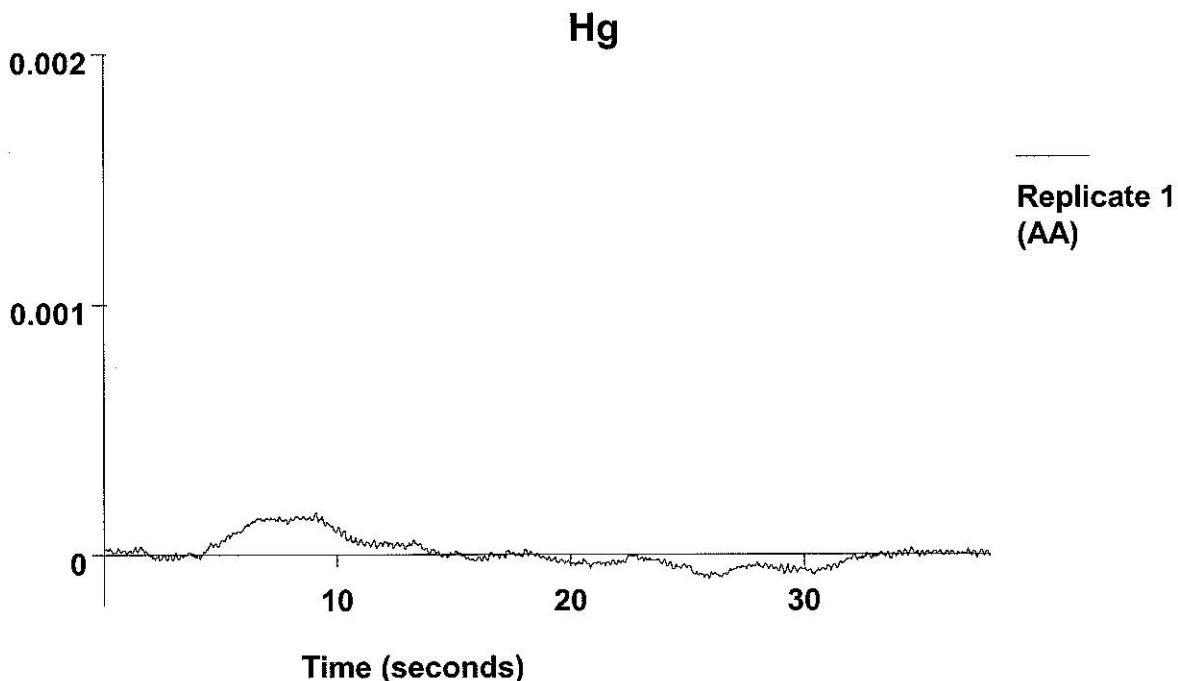
Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.03	5.03	0.0403	0.2121	0.0412	1 03:56:08	Yes



QC value within specified limits.

=====
 Element: Hg Seq. No.: 22 AS Loc.: 1 Date: 04/26/2012
 Sample ID: CCB
 =====

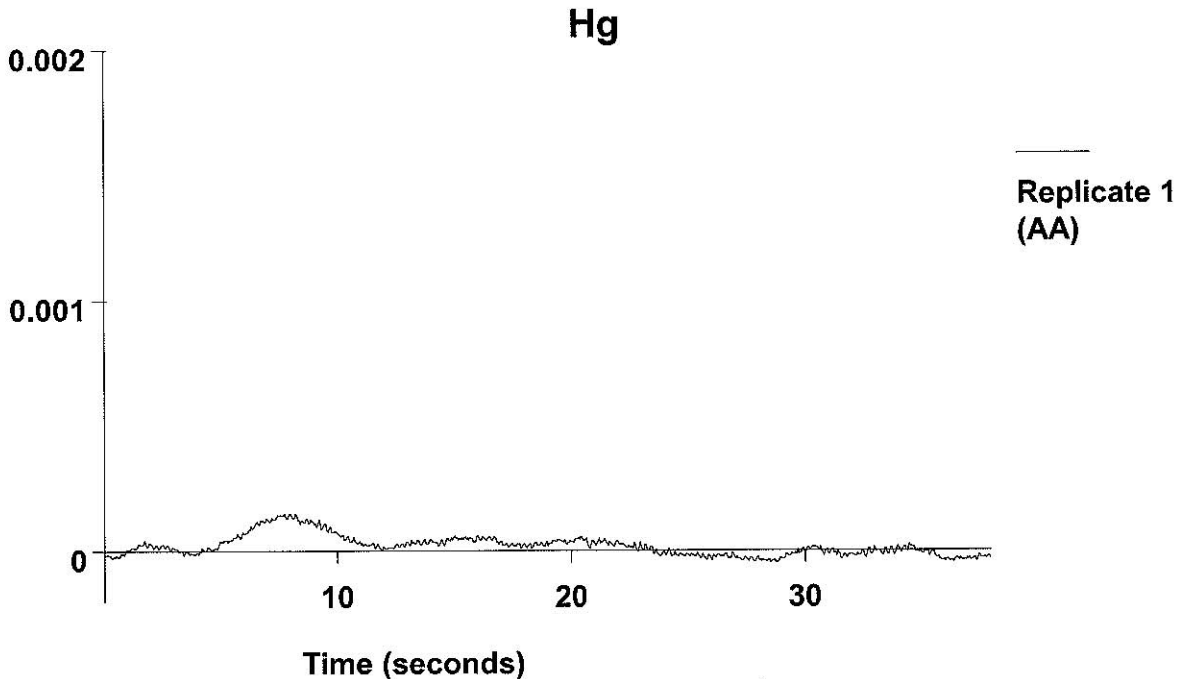
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.038	-0.038	-0.0008	0.0003	0.0002	1 03:57:55	Yes



QC value within specified limits.

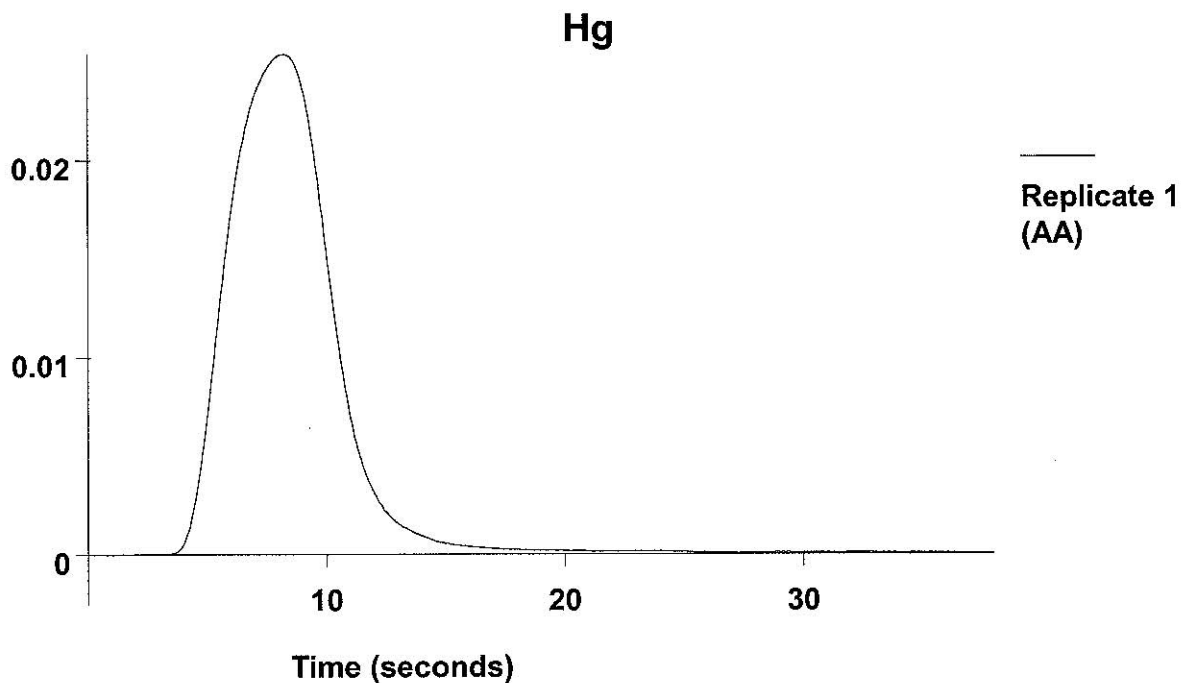
=====
 Element: Hg Seq. No.: 23 AS Loc.: 18 Date: 04/26/2012
 Sample ID: 350581602L

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.039	-0.039	-0.0008	0.0007	0.0001	1 03:59:41	Yes



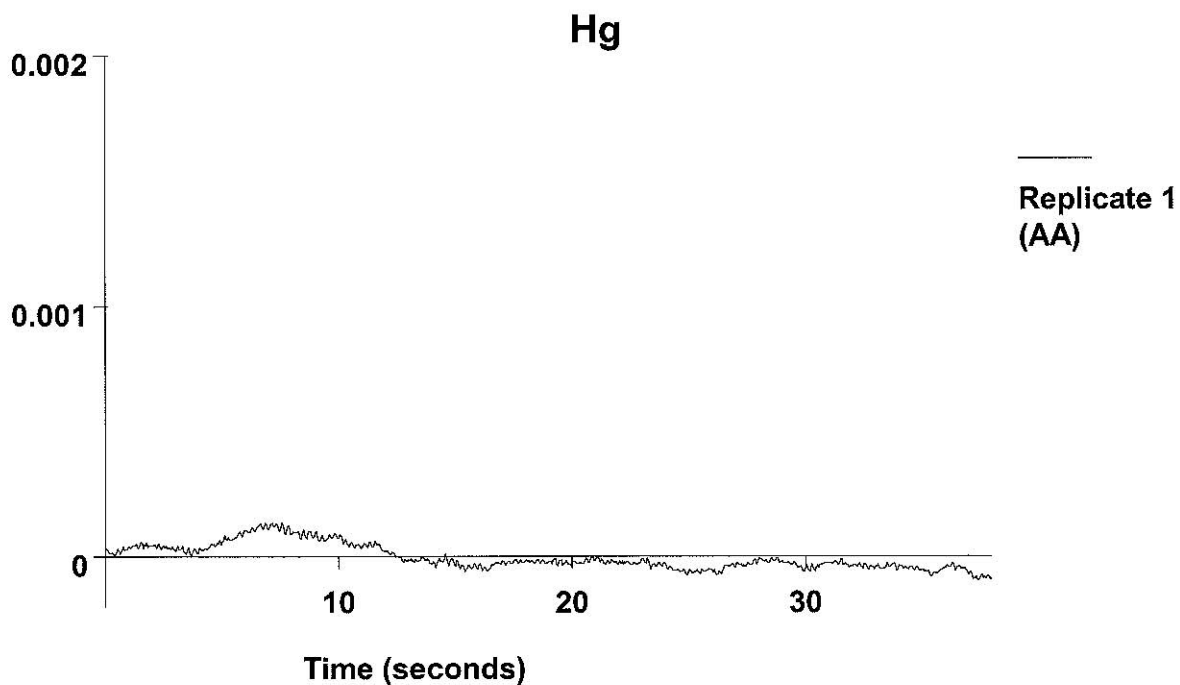
=====
 Element: Hg Seq. No.: 24 AS Loc.: 19 Date: 04/26/2012
 Sample ID: 350581602A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.07	3.07	0.0244	0.1289	0.0253	1 04:01:25	Yes



=====
 Element: Hg Seq. No.: 25 AS Loc.: 20 Date: 04/26/2012
 Sample ID: 127649MB
 =====

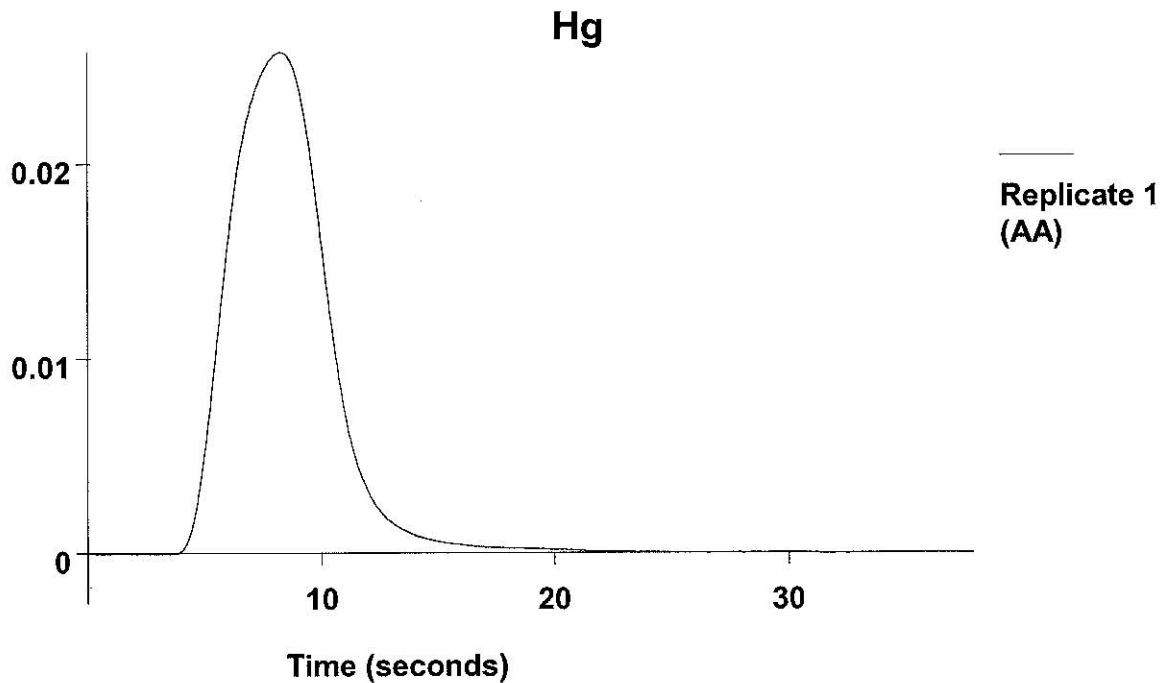
Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.041	-0.041	-0.0008	-0.0002	0.0001	04:03:11	Yes



=====
 Element: Hg Seq. No.: 26 AS Loc.: 21 Date: 04/26/2012
 =====

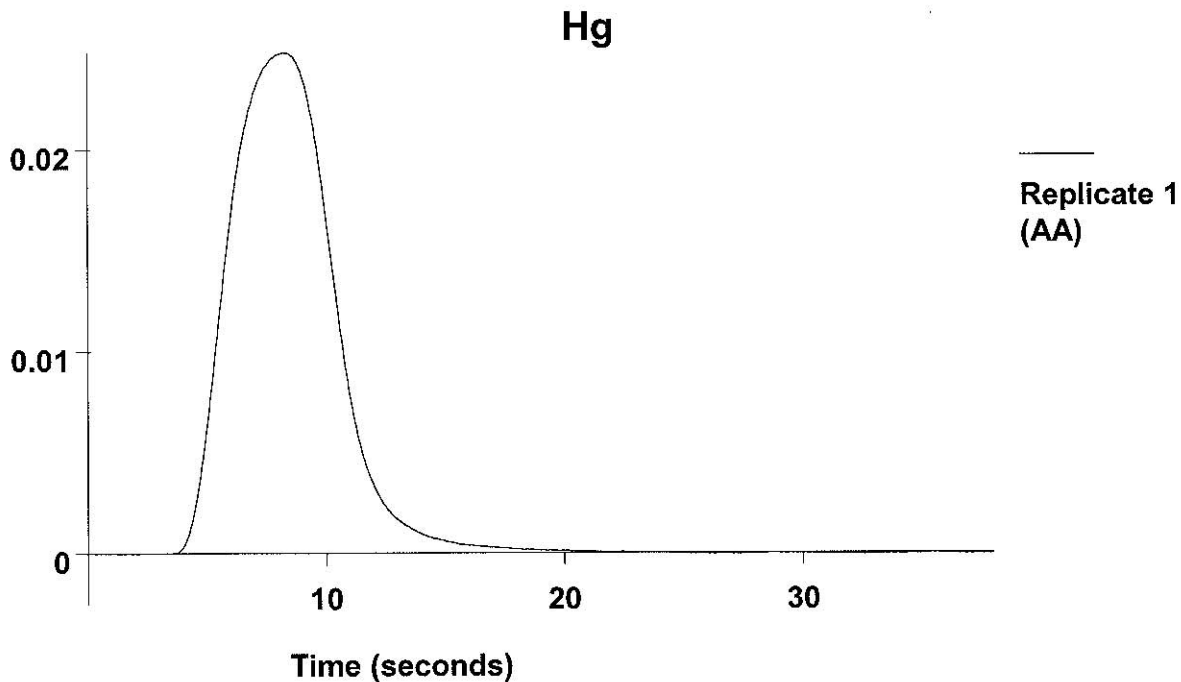
Sample ID: 127652LCS

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.11	3.11	0.0247	0.1249	0.0256	1 04:04:58	Yes



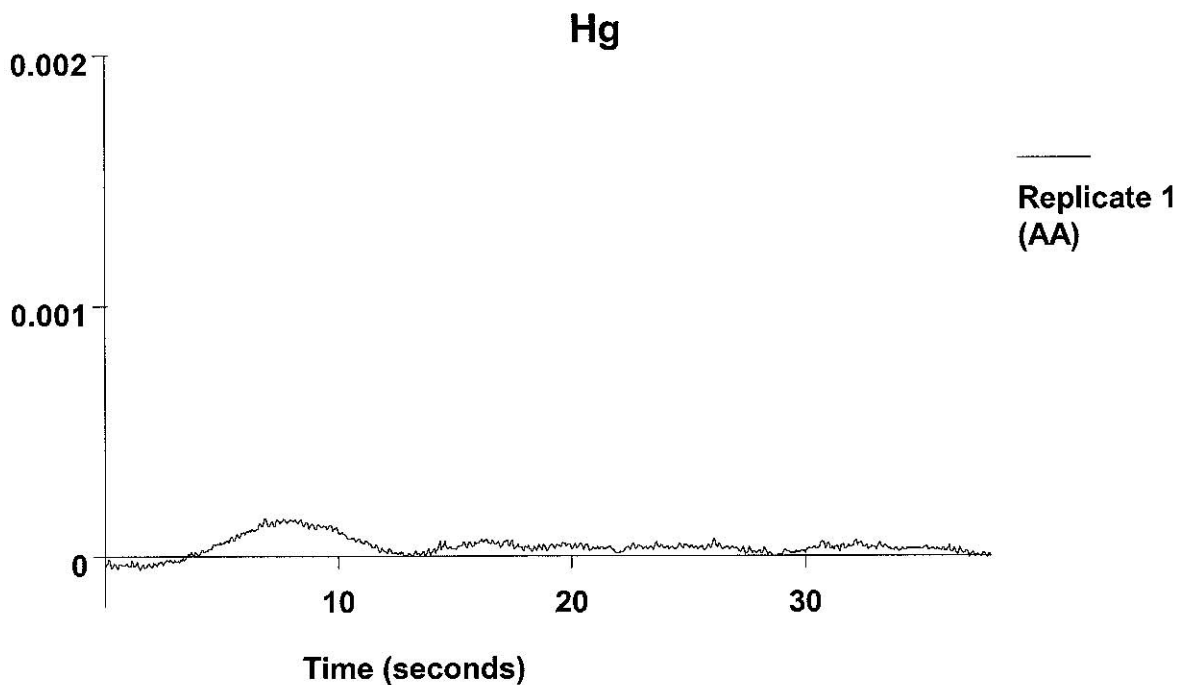
Element: Hg Seq. No.: 27 AS Loc.: 22 Date: 04/26/2012
 Sample ID: 127655LCSD

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.00	3.00	0.0239	0.1260	0.0248	1 04:06:45	Yes



=====
 Element: Hg Seq. No.: 28 AS Loc.: 23 Date: 04/26/2012
 Sample ID: 350581601
 =====

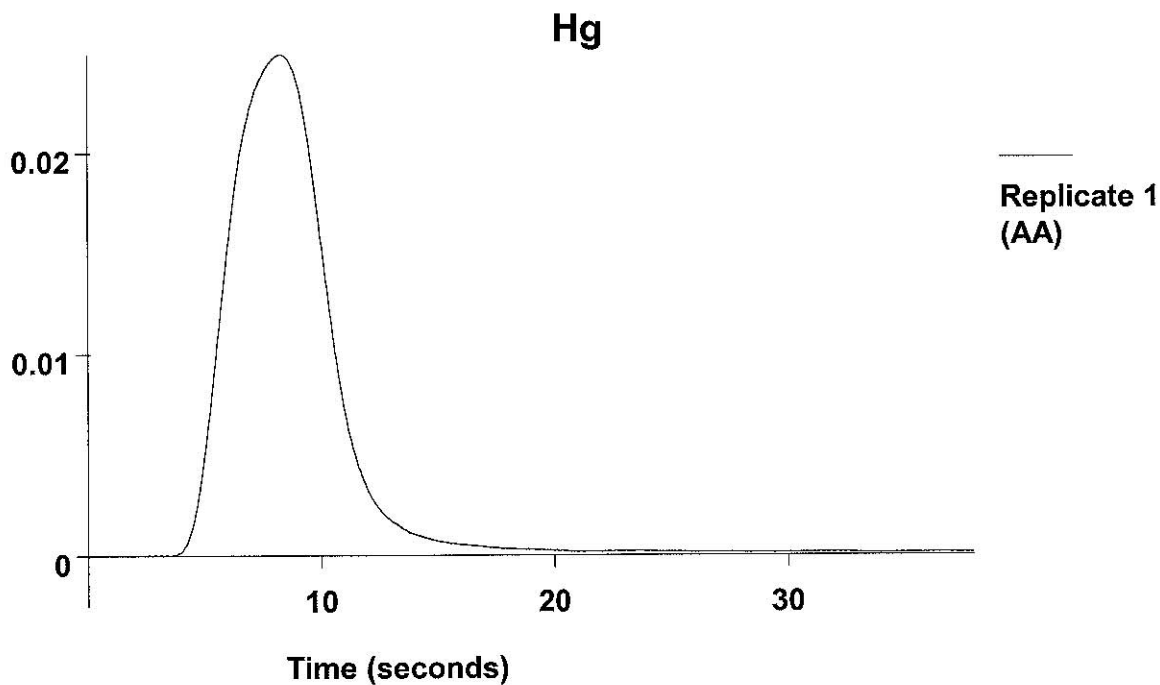
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.040	-0.040	-0.0008	0.0014	0.0001	1 04:08:33	Yes



=====
 Element: Hg Seq. No.: 29 AS Loc.: 24 Date: 04/26/2012
 =====

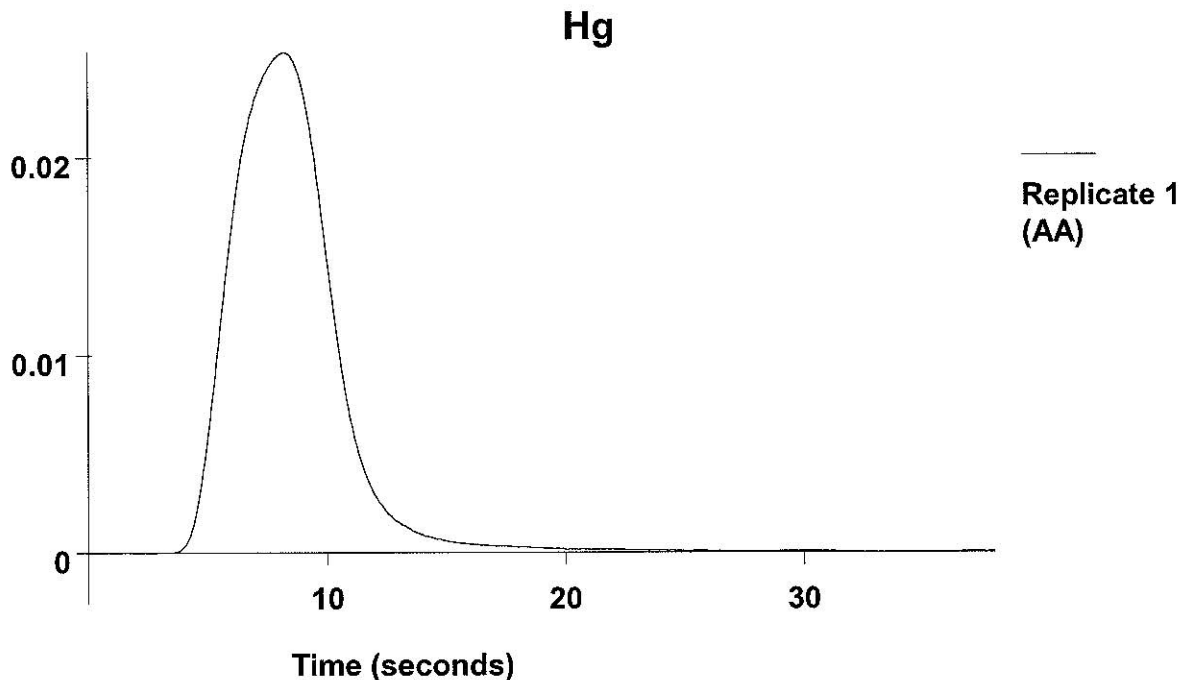
Sample ID: 127663MS

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.00	3.00	0.0239	0.1248	0.0248	1 04:10:21	Yes



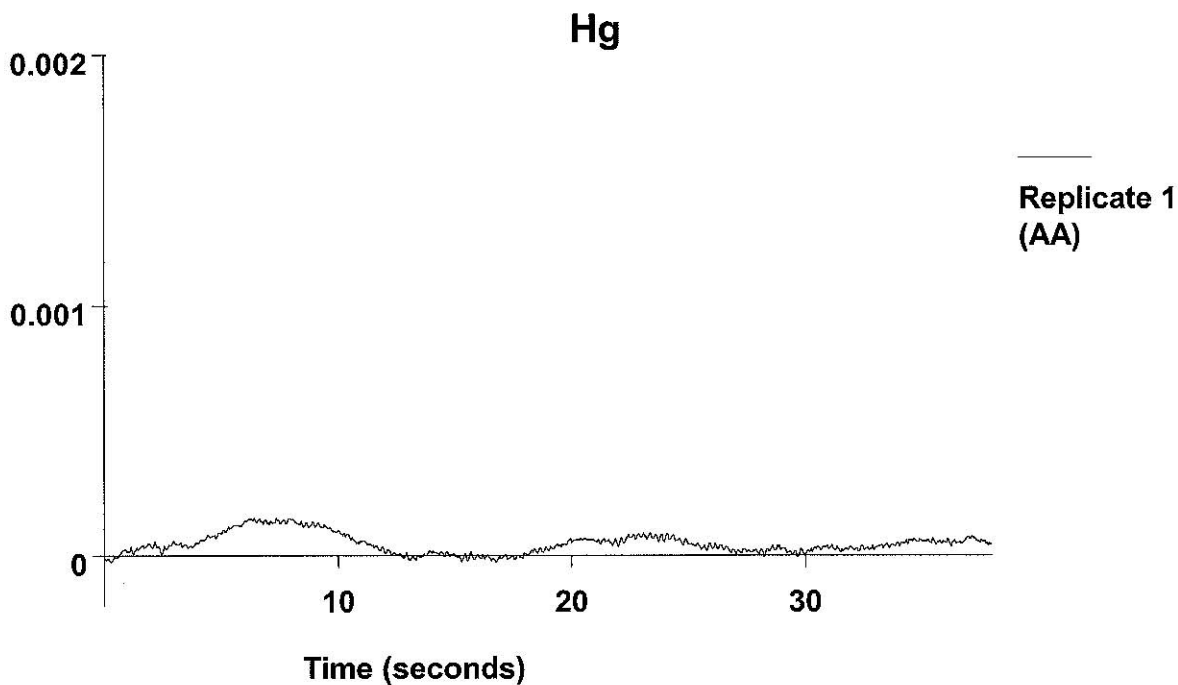
=====
 Element: Hg Seq. No.: 30 AS Loc.: 25 Date: 04/26/2012
 Sample ID: 127664MSD

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.06	3.06	0.0244	0.1244	0.0253	1 04:12:10	Yes



=====
 Element: Hg Seq. No.: 31 AS Loc.: 26 Date: 04/26/2012
 Sample ID: 350581601L
 =====

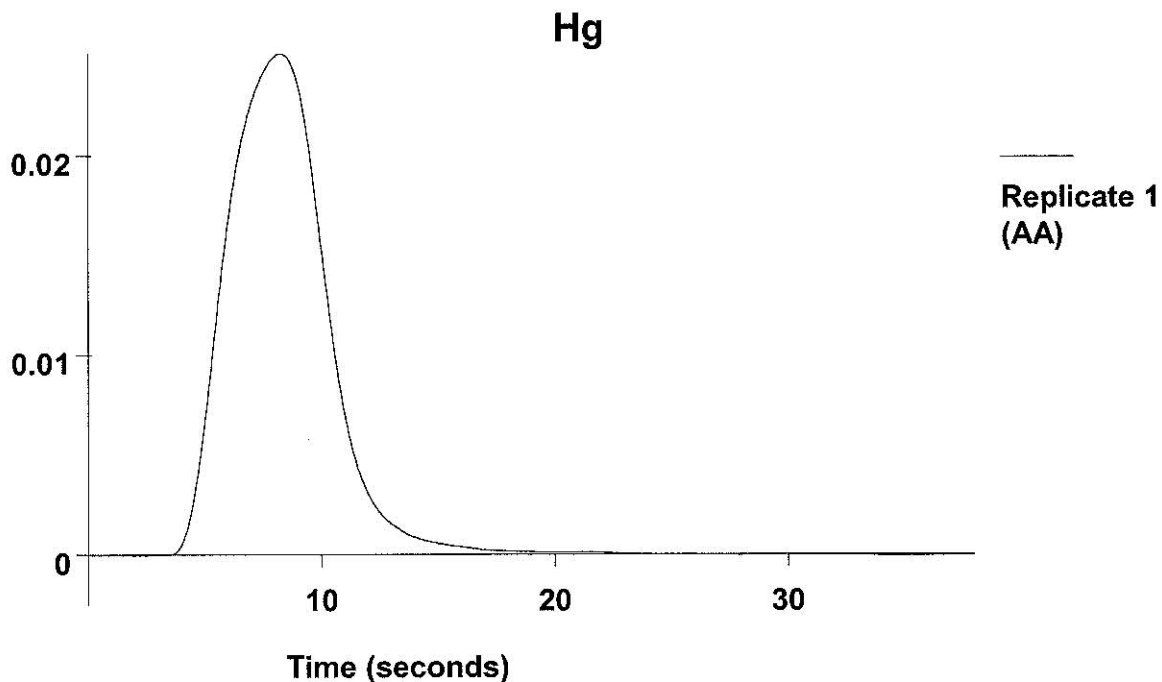
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.039	-0.039	-0.0008	0.0018	0.0001	1 04:13:59	Yes



=====
 Element: Hg Seq. No.: 32 AS Loc.: 27 Date: 04/26/2012
 =====

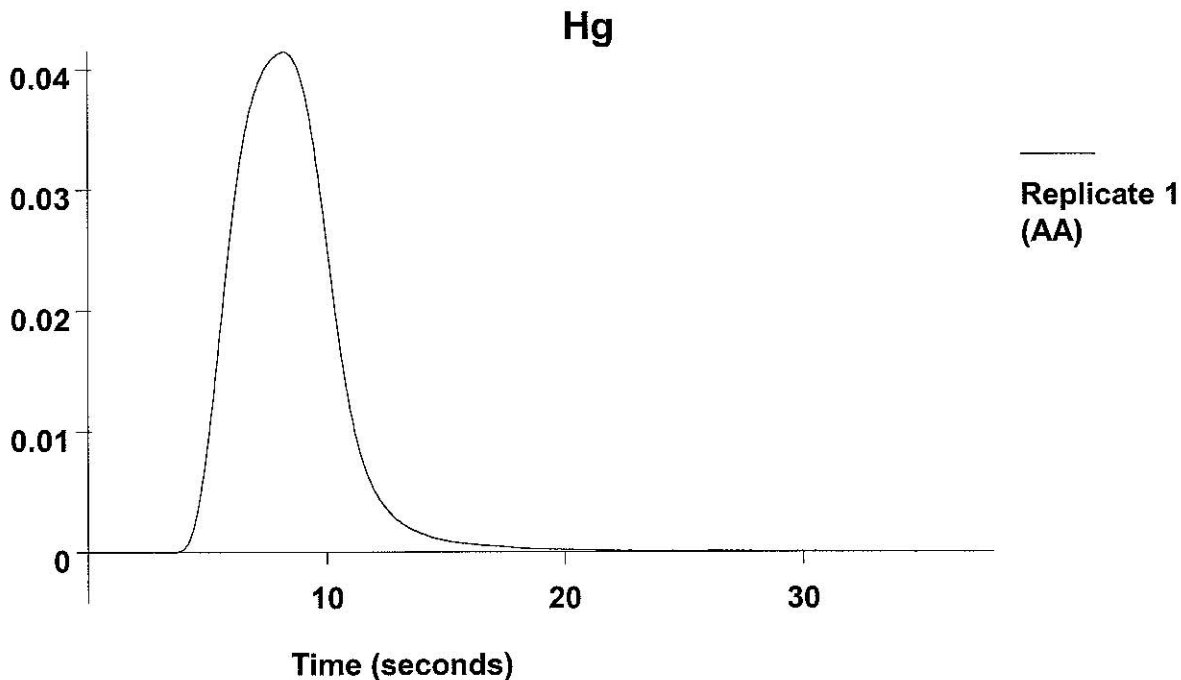
Sample ID: 350581601A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.03	3.03	0.0241	0.1247	0.0250	1 04:15:49	Yes



Element: Hg Seq. No.: 33 AS Loc.: 5 Date: 04/26/2012
 Sample ID: CCV

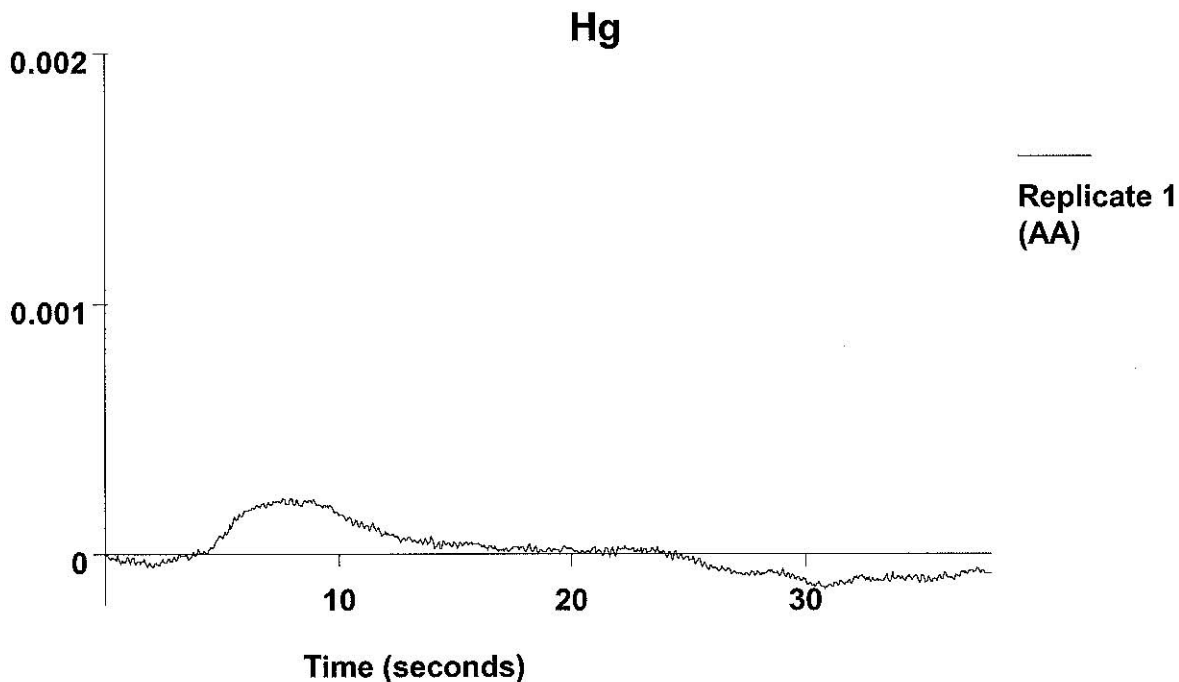
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.04	5.04	0.0404	0.2029	0.0413	1 04:17:38	Yes



QC value within specified limits.

=====
 Element: Hg Seq. No.: 34 AS Loc.: 1 Date: 04/26/2012
 Sample ID: CCB
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.031	-0.031	-0.0007	0.0003	0.0002	04:19:25	Yes



QC value within specified limits.

Seq. No.	1	AS Loc:	1	Date:	4/26/12				
Sample ID:	Calib Blank	StndConc		Blank Corr Signal		Pk Area		BG Area	
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time	
Hg			0.0009	0.0031	158.4642	0.0009	4.1701	15:19:47	
Auto-zero performed.									

Mean: 0.0009
SD:
%RSD:

Seq. No.	2	AS Loc:	2	Date:	4/26/12				
Sample ID:	CS1	StndConc		Blank Corr Signal		Pk Area		BG Area	
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time	
Hg			0.0007	0.0092	158.4764	0.0017	4.1704	15:21:34	
[Hg] Standard number 1 applied. [0.100]									
Correlation Coefficient: 1.00000			Slope: 0.00750						
Intercept : 0.00000									

Mean: 0.0007
SD:
%RSD:

Seq. No.	3	AS Loc:	3	Date:	4/26/12				
Sample ID:	CS2	StndConc		Blank Corr Signal		Pk Area		BG Area	
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time	
Hg			0.0026	0.0217	158.4921	0.0035	4.1709	15:23:21	
[Hg] Standard number 2 applied. [0.500]									
Correlation Coefficient: 0.99537			Slope: 0.00499						
Intercept : 0.00011									

Mean: 0.0026
SD:
%RSD:

Seq. No.	4	AS Loc:	4	Date:	4/26/12				
Sample ID:	CS3	StndConc		Blank Corr Signal		Pk Area		BG Area	
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time	
Hg			0.0076	0.0509	158.5034	0.0085	4.1711	15:25:10	
[Hg] Standard number 3 applied. [1.00]									
Correlation Coefficient: 0.98477			Slope: 0.00736						
Intercept : -0.00022									

Mean: 0.0076
SD:
%RSD:

Seq. No.	5	AS Loc:	5	Date:	4/26/12				
Sample ID:	CS4	StndConc		Blank Corr Signal		Pk Area		BG Area	
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time	
Hg			0.0406	0.2614	158.5150	0.0415	4.1715	15:27:01	
[Hg] Standard number 4 applied. [5.00]									
Correlation Coefficient: 0.99936			Slope: 0.00821						
Intercept : -0.00054									

Mean: 0.0406
SD:
%RSD:

Seq. No.	AS Loc:	Date:						
6	6	4/26/12						
Sample ID: CS5								
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg			0.0804	0.5196	158.5373	0.0813	4.1720	15:28:51
[Hg] Standard number 5 applied. [10.0]								
Correlation Coefficient: 0.99983			Slope: 0.00811					
Intercept : -0.00044								
Mean:			0.0804					
SD:								
%RSD:								

Seq. No.	AS Loc:	Date:						
7	7	4/26/12						
Sample ID: ICV								
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	3.05µg/L	3.05µg/L	0.0243	0.1604	158.5536	0.0252	4.1725	15:30:48
QC value within specified limits.								
Mean:	3.05µg/L	3.05µg/L	0.0243					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	Date:						
8	1	4/26/12						
Sample ID: ICB								
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	-0.019µg/L	-0.019µg/L	-0.0006	0.0024	158.5660	0.0003	4.1728	15:32:36
QC value within specified limits.								
Mean:	-0.019µg/L	-0.019µg/L	-0.0006					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	Date:						
9	5	4/26/12						
Sample ID: CCV								
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	5.02µg/L	5.02µg/L	0.0403	0.2647	158.5650	0.0412	4.1728	15:34:23
QC value within specified limits.								
Mean:	5.02µg/L	5.02µg/L	0.0403					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	Date:						
10	1	4/26/12						
Sample ID: CCB								
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	-0.028µg/L	-0.028µg/L	-0.0007	0.0001	158.5728	0.0002	4.1729	15:36:12
QC value within specified limits.								
Mean:	-0.028µg/L	-0.028µg/L	-0.0007					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	Date:						
11	8	4/26/12						
Sample ID: 127643MB								
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	-0.042µg/L	-0.042µg/L	-0.0008	-0.0021	158.5768	0.0001	4.1731	15:38:02
Mean:	-0.042µg/L	-0.042µg/L	-0.0008					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	12	AS Loc:	9	Date:	4/26/12			
Sample ID:	127644LCS							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	2.97µg/L	2.97µg/L	0.0236	0.1586	158.5924	0.0245	4.1735	15:39:50
Mean:	2.97µg/L	2.97µg/L	0.0236					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	13	AS Loc:	10	Date:	4/26/12			
Sample ID:	127645LCSD							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	2.98µg/L	2.98µg/L	0.0237	0.1603	158.5998	0.0246	4.1737	15:41:36
Mean:	2.98µg/L	2.98µg/L	0.0237					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	14	AS Loc:	11	Date:	4/26/12			
Sample ID:	350581602							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	0.026µg/L	0.026µg/L	-0.0002	0.0037	158.5998	0.0007	4.1737	15:43:23
Mean:	0.026µg/L	0.026µg/L	-0.0002					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	15	AS Loc:	12	Date:	4/26/12			
Sample ID:	127646MS							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	2.50µg/L	2.50µg/L	0.0198	0.1439	158.6006	0.0207	4.1737	15:45:11
Mean:	2.50µg/L	2.50µg/L	0.0198					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	16	AS Loc:	13	Date:	4/26/12			
Sample ID:	127647MSD							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	2.74µg/L	2.74µg/L	0.0218	0.1544	158.5974	0.0227	4.1737	15:47:00
Mean:	2.74µg/L	2.74µg/L	0.0218					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	17	AS Loc:	14	Date:	4/26/12			
Sample ID:	350581704							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	-0.042µg/L	-0.042µg/L	-0.0008	-0.0008	158.5962	0.0001	4.1736	15:48:51
Mean:	-0.042µg/L	-0.042µg/L	-0.0008					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	18	AS Loc:	15	Date:	4/26/12			
Sample ID:	350582701							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	-0.048µg/L	-0.048µg/L	-0.0008	-0.0017	158.6042	0.0001	4.1738	15:50:41
Mean:	-0.048µg/L	-0.048µg/L	-0.0008					
SD:	0.000µg/L	0.000µg/L						

%RSD:

Seq. No.	AS Loc:		Date:					
19	16		4/26/12					
Sample ID:	350584313							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	-0.053µg/L	-0.053µg/L	-0.0009	-0.0007	158.6078	0.0000	4.1739	15:52:33
Mean:	-0.053µg/L	-0.053µg/L	-0.0009					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:		Date:					
20	17		4/26/12					
Sample ID:	350584314							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	-0.057µg/L	-0.057µg/L	-0.0009	-0.0033	158.6150	0.0000	4.1741	15:54:22
Mean:	-0.057µg/L	-0.057µg/L	-0.0009					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:		Date:					
21	5		4/26/12					
Sample ID:	CCV							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	5.03µg/L	5.03µg/L	0.0403	0.2121	158.6203	0.0412	4.1742	15:56:08
QC value within specified limits.								
Mean:	5.03µg/L	5.03µg/L	0.0403					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:		Date:					
22	1		4/26/12					
Sample ID:	CCB							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	-0.038µg/L	-0.038µg/L	-0.0008	0.0003	158.6203	0.0002	4.1742	15:57:55
QC value within specified limits.								
Mean:	-0.038µg/L	-0.038µg/L	-0.0008					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:		Date:					
23	18		4/26/12					
Sample ID:	350581602L							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	-0.039µg/L	-0.039µg/L	-0.0008	0.0007	158.6203	0.0001	4.1742	15:59:41
Mean:	-0.039µg/L	-0.039µg/L	-0.0008					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:		Date:					
24	19		4/26/12					
Sample ID:	350581602A							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	3.07µg/L	3.07µg/L	0.0244	0.1289	158.6231	0.0253	4.1743	16:01:25
Mean:	3.07µg/L	3.07µg/L	0.0244					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	25	AS Loc:	20	Date:	4/26/12			
Sample ID:	127649MB							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	-0.041µg/L	-0.041µg/L	-0.0008	-0.0002	158.6238	0.0001	4.1743	16:03:11
Mean:	-0.041µg/L	-0.041µg/L	-0.0008					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	26	AS Loc:	21	Date:	4/26/12			
Sample ID:	127652LCS							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	3.11µg/L	3.11µg/L	0.0247	0.1249	158.6321	0.0256	4.1746	16:04:58
Mean:	3.11µg/L	3.11µg/L	0.0247					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	27	AS Loc:	22	Date:	4/26/12			
Sample ID:	127655LCSD							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	3.00µg/L	3.00µg/L	0.0239	0.1260	158.6379	0.0248	4.1747	16:06:45
Mean:	3.00µg/L	3.00µg/L	0.0239					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	28	AS Loc:	23	Date:	4/26/12			
Sample ID:	350581601							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	-0.040µg/L	-0.040µg/L	-0.0008	0.0014	158.6425	0.0001	4.1748	16:08:33
Mean:	-0.040µg/L	-0.040µg/L	-0.0008					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	29	AS Loc:	24	Date:	4/26/12			
Sample ID:	127663MS							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	3.00µg/L	3.00µg/L	0.0239	0.1248	158.6437	0.0248	4.1749	16:10:21
Mean:	3.00µg/L	3.00µg/L	0.0239					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	30	AS Loc:	25	Date:	4/26/12			
Sample ID:	127664MSD							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	3.06µg/L	3.06µg/L	0.0244	0.1244	158.6380	0.0253	4.1747	16:12:10
Mean:	3.06µg/L	3.06µg/L	0.0244					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	31	AS Loc:	26	Date:	4/26/12			
Sample ID:	350581601L							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	-0.039µg/L	-0.039µg/L	-0.0008	0.0018	158.6414	0.0001	4.1747	16:13:59
Mean:	-0.039µg/L	-0.039µg/L	-0.0008					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

%RSD:

Seq. No.	AS Loc:	Date:						
32	27	4/26/12						
Sample ID:	350581601A							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	3.03µg/L	3.03µg/L	0.0241	0.1247	158.6390	0.0250	4.1747	16:15:49
Mean:	3.03µg/L	3.03µg/L	0.0241					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	Date:						
33	5	4/26/12						
Sample ID:	CCV							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	5.04µg/L	5.04µg/L	0.0404	0.2029	158.6437	0.0413	4.1749	16:17:38
QC value within specified limits.								
Mean:	5.04µg/L	5.04µg/L	0.0404					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	Date:						
34	1	4/26/12						
Sample ID:	CCB							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	-0.031µg/L	-0.031µg/L	-0.0007	0.0003	158.6464	0.0002	4.1749	16:19:25
QC value within specified limits.								
Mean:	-0.031µg/L	-0.031µg/L	-0.0007					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
39044	Mercury_CAL_STK	High Purity	1030115	7/4/2012	125 mL	1/6/2011	ggalvis

1000 UG/ML: Mercury

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
39045	Mercury_ICV_STK	CPI international	091049	7/5/2012	125 ml	1/12/2011	ggalvis

1000 UG/ML: Mercury

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45139	HNO3	fisher	1111101	11/30/2014	2.5 L	12/11/2011	ddthompson

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45797	Mercury_Low_Working			7/4/2012	10 ML	4/11/2012	jbowman

100 UG/L: Mercury

COMPOSED OF:

45139: 1 ML 45798: 1 ML

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45798	Mercury_High_Working			7/4/2012	100 ML	4/11/2012	jbowman

1000 UG/L: Mercury

COMPOSED OF:

39044: 0.1 ML 45139: 0.1 ML

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45799	Mercury_ICV_Working			7/4/2012	100 ML	4/11/2012	jbowman

1000 UG/L: Mercury

3505843

3375

STANDARDS LOG

COMPOSED OF:

39045: 0.1 ML 45139: 0.1 ML

3505843

3376

Spectrum Analytical, Inc. Florida Division

Prepared by: JB

Date Prepared: 4/26/12

Reagents: PM#

PREP Batch: 042612C

KMnO₄ 45741

LCS/MS/SD Spike: MET# 45799

LCS/MS/SD Spike amount: 0.075 mL

K₂S₂O₈ N/A

CAL Spike: MET# 45797, 45798

Pipette(s) Used for Spikes: P6 w/4

HCl 45535

Balance ID: Met 1

Glass Beads ID: 33394

HNO₃ 45734

Filter Lot #: NA

Thermometer ID: 289366

H₂SO₄ 42793

Dig Tube: 1202052

Water Bath Temperature: 45 °C

Hydrox. 45740

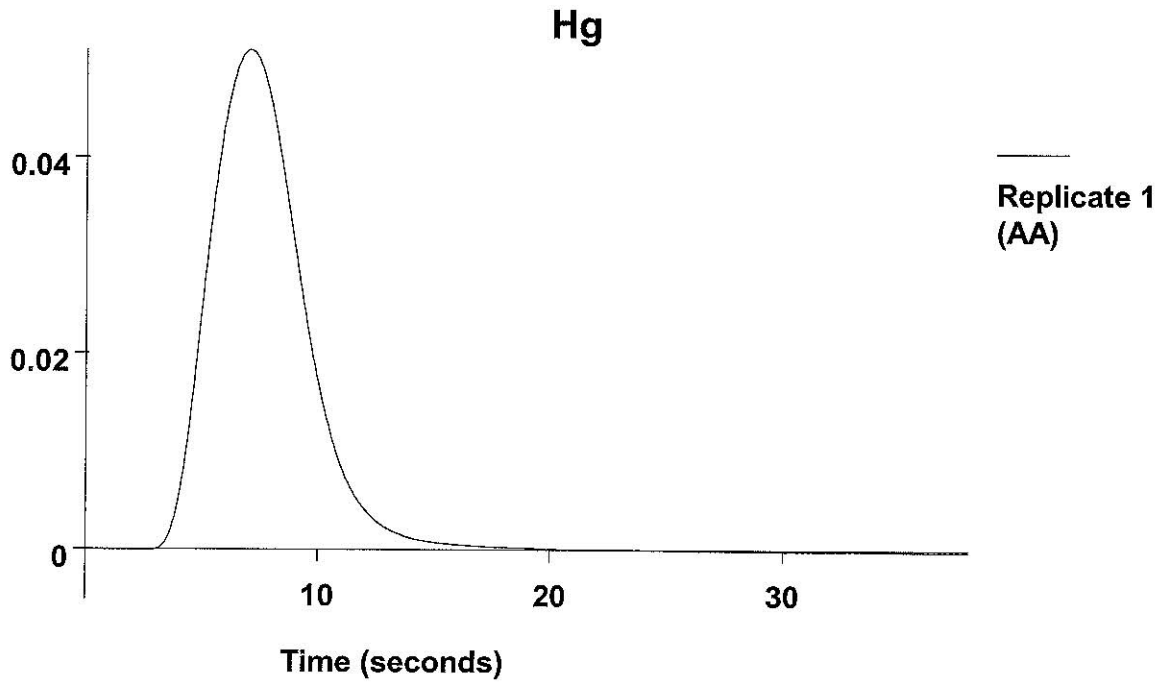
Carrier 45996

Reductant 45997

Methods: Water 7470/7470A (Soil 7471A/7471B)		Start time: <u>12:41</u>	Stop time: <u>13:11</u>				
Tube#	Container #	Sample ID	ID	Weight (g) or Volume (mL) 3 Sig Fig	Final volume (mL)	Comment or Notification:	Pilot Batch #:
8		Blk 042612C	BLK	.254	25.0 mL		9240
9		LCS ↓	LCS	.256			127984
10		LCSD ↓	LCSD	.252			85
11	1	3505843 01		.266		IV 5/9	86
12		02	MS	.285			
13		03	SD	.268			
2		04		.264			
3		05		.429			
4	↓	06		.486			
5	2	07		.352			
6	2	08		.292			
7	1	09		.464			
8	↓	10		.333			
9	2	11		.426			
10	1	12		.401			
							AS Pos #
							1
							Calibration Standards
							1
							CAL BLANK
							2
							CS1 0.200 ug/L 50.0 uL MET# 45797
							3
							CS2 0.500 ug/L 125 uL MET# ↓
							4
							CS3 1.00 ug/L 25.0 uL MET# 45798
							5
							CS4 5.00 ug/L 125 uL MET#
							6
							CS5 10.0 ug/L 250 uL MET# ↓
							7
							ICV 3.00 ug/L 75.0 uL MET# 45799

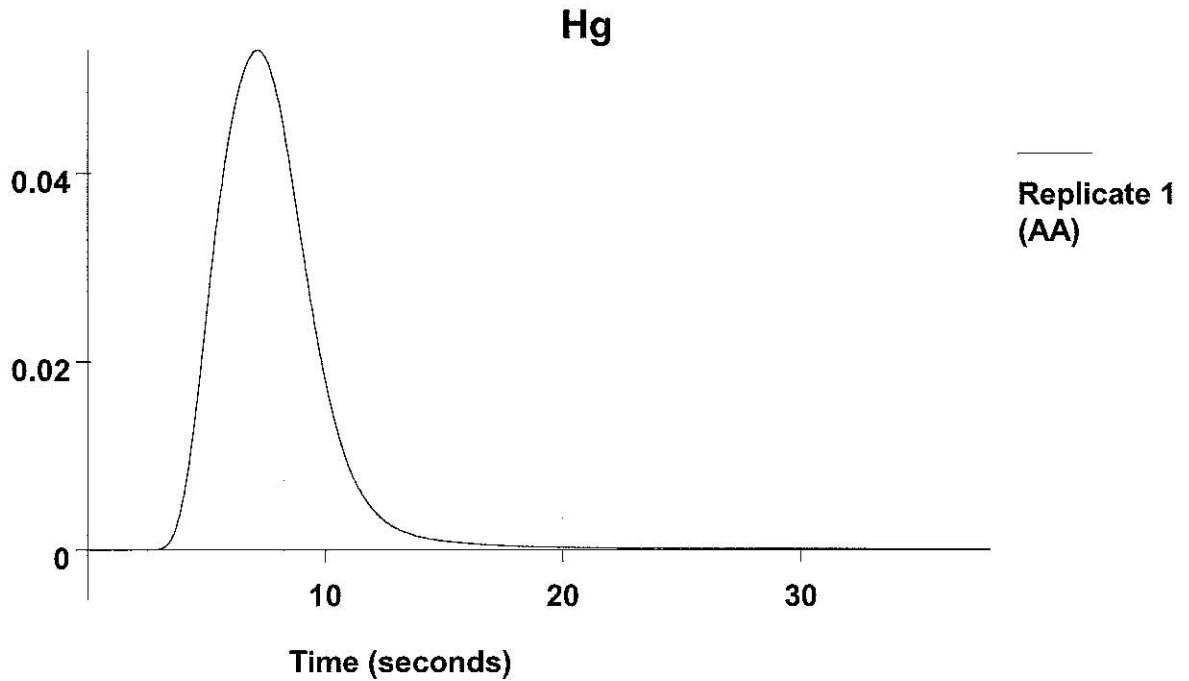
Sample ID: 350583505

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.79	4.79	0.0504	0.2332	0.0507	1 05:42:17	Yes



=====
 Element: Hg Seq. No.: 29 AS Loc.: 5 Date: 04/27/2012
 Sample ID: CCV
 =====

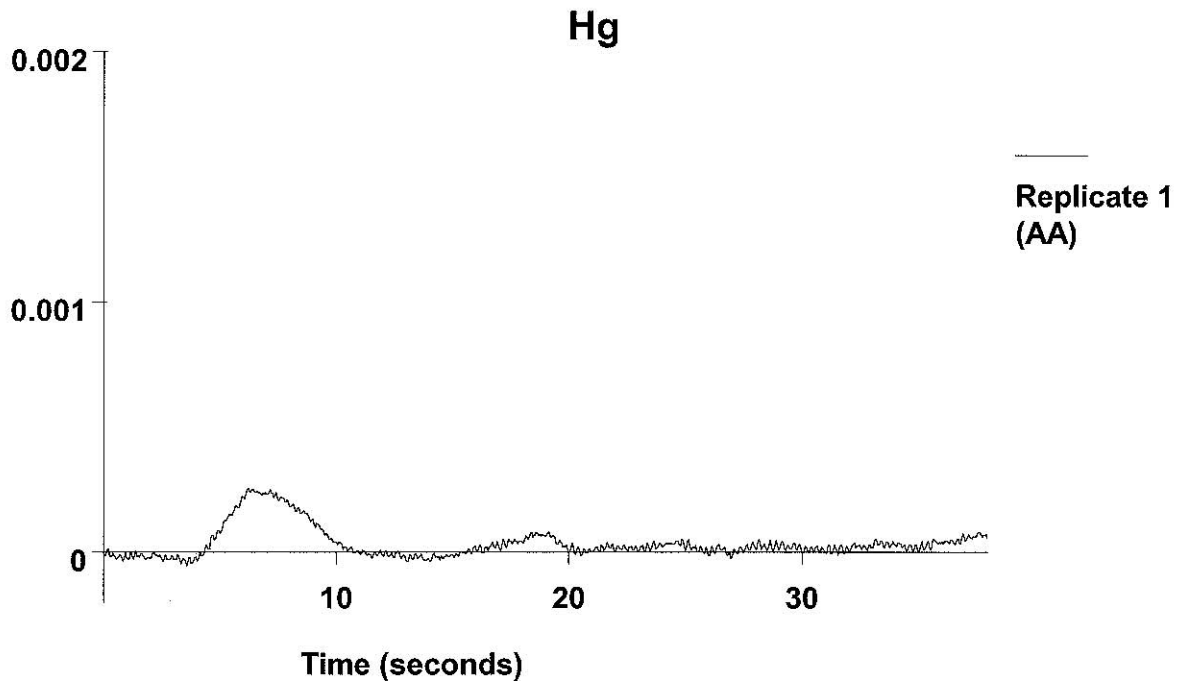
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.99	4.99	0.0525	0.2498	0.0528	1 05:44:04	Yes



QC value within specified limits.

=====
 Element: Hg Seq. No.: 30 AS Loc.: 1 Date: 04/27/2012
 Sample ID: CCB
 =====

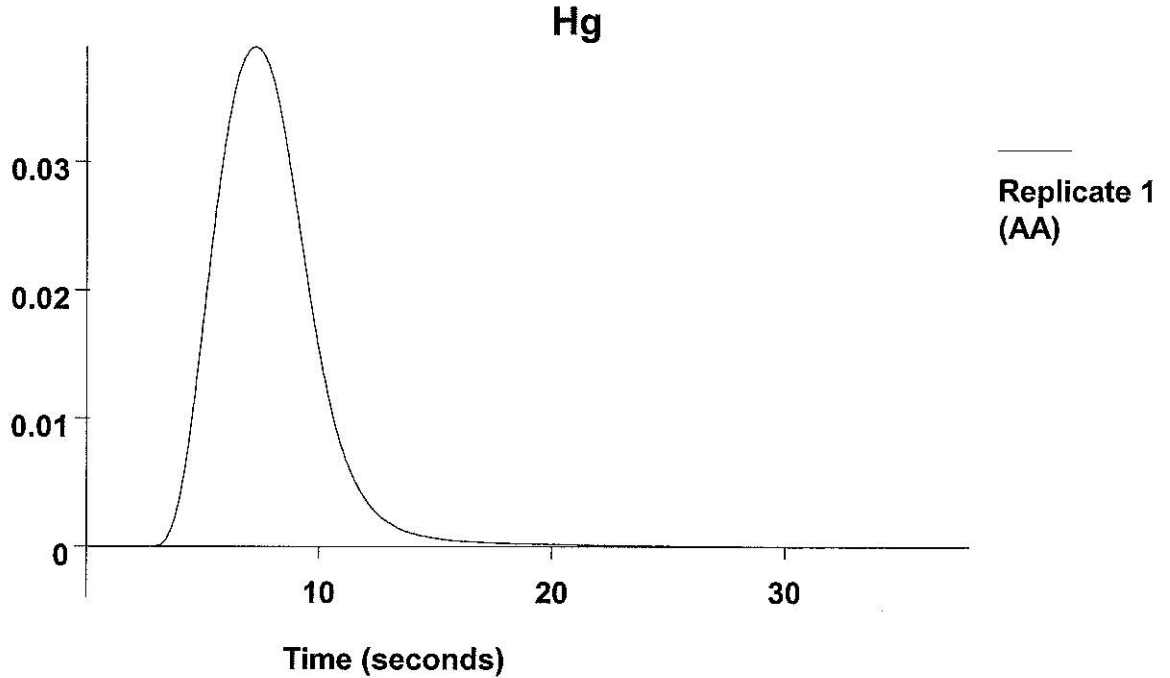
Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.010	-0.010	-0.0001	0.0013	0.0002	1 05:45:51	Yes



QC value within specified limits.

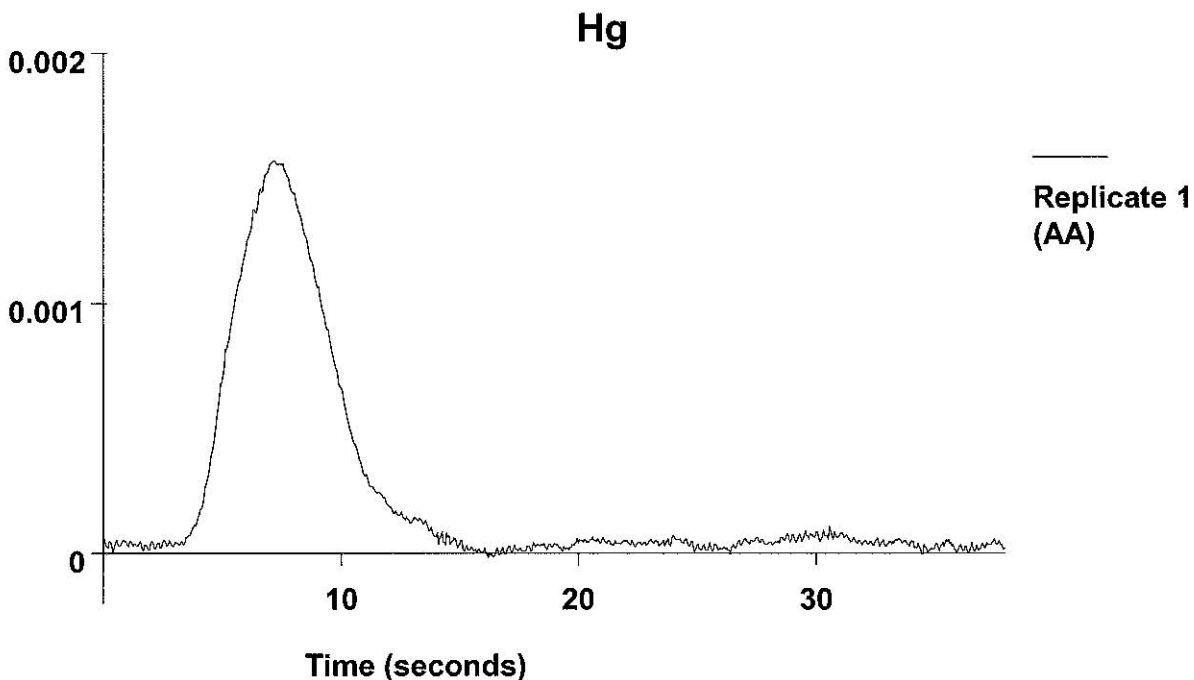
=====
 Element: Hg Seq. No.: 31 AS Loc.: 18 Date: 04/27/2012
 Sample ID: 350583506
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.65	3.65	0.0384	0.1864	0.0387	1 05:47:39	Yes



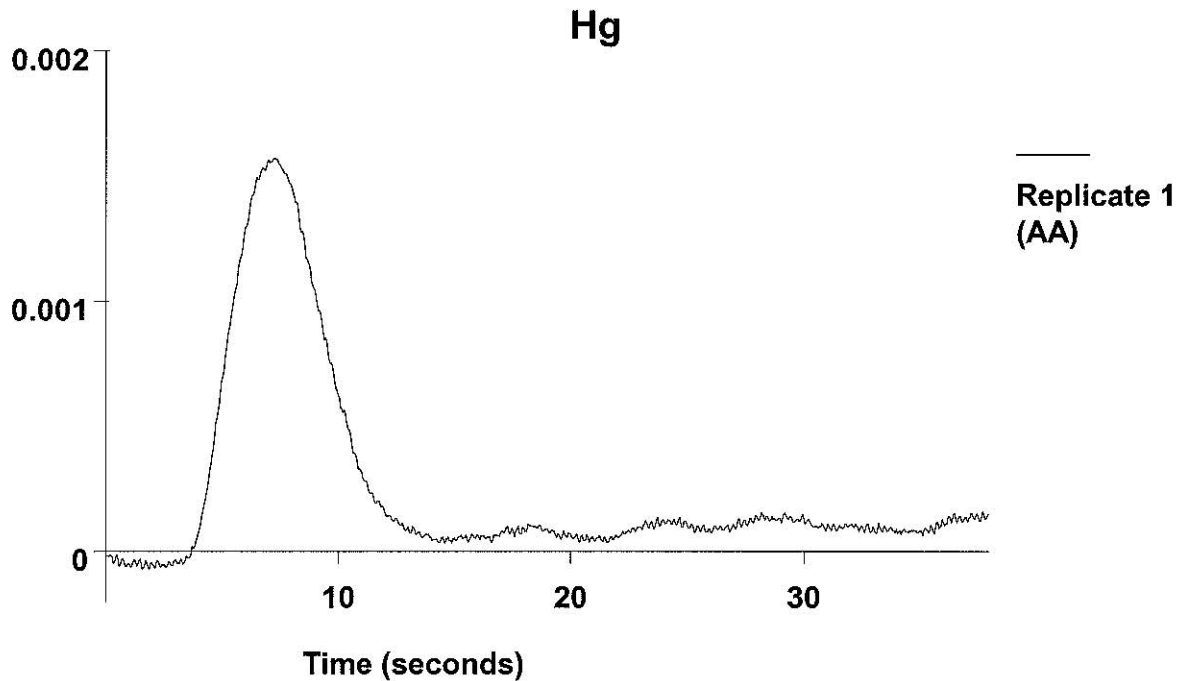
=====
 Element: Hg Seq. No.: 32 AS Loc.: 19 Date: 04/27/2012
 Sample ID: 350580101
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.116	0.116	0.0013	0.0085	0.0016	1 05:49:25	Yes



=====
 Element: Hg Seq. No.: 33 AS Loc.: 20 Date: 04/27/2012
 Sample ID: 350580102
 =====

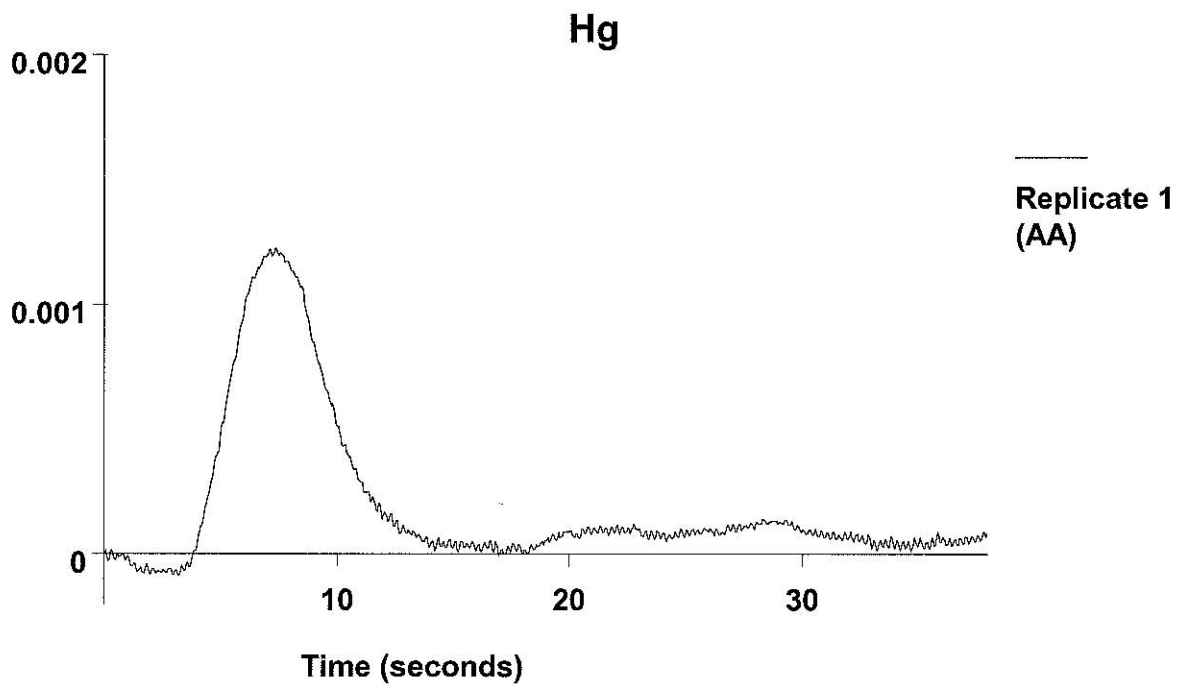
Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.115	0.115	0.0013	0.0093	0.0016	1 05:51:11	Yes



=====
 Element: Hg Seq. No.: 34 AS Loc.: 21 Date: 04/27/2012
 =====

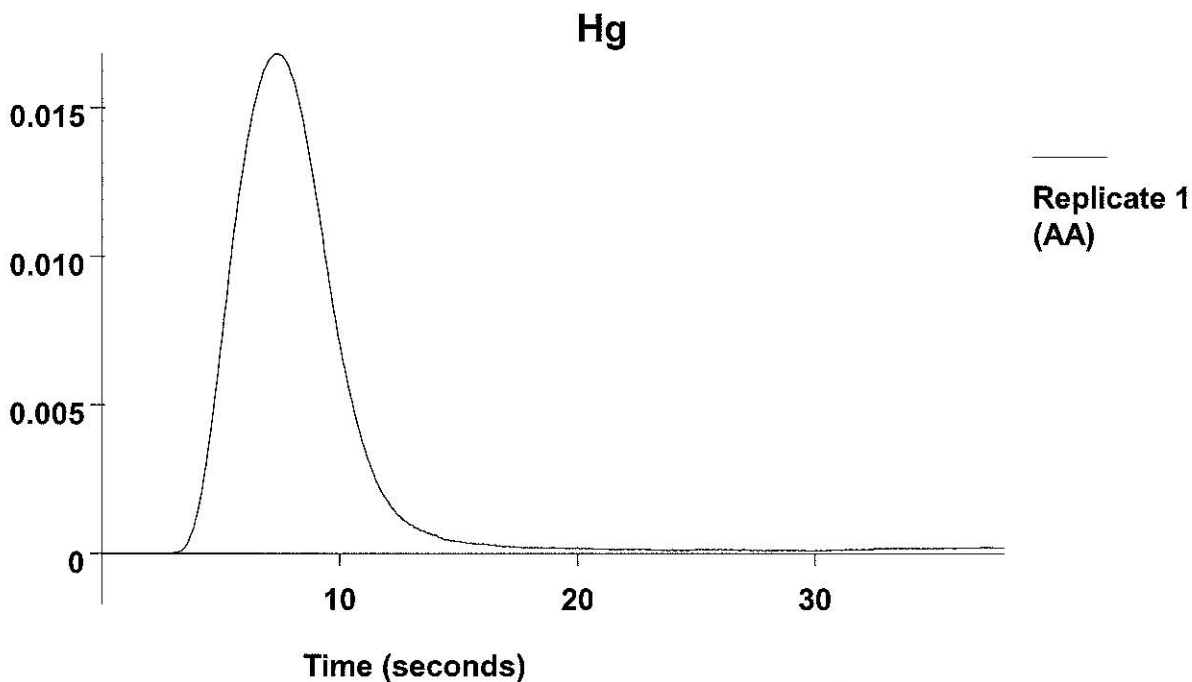
Sample ID: 350580103

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.082	0.082	0.0009	0.0072	0.0012	1 05:52:58	Yes



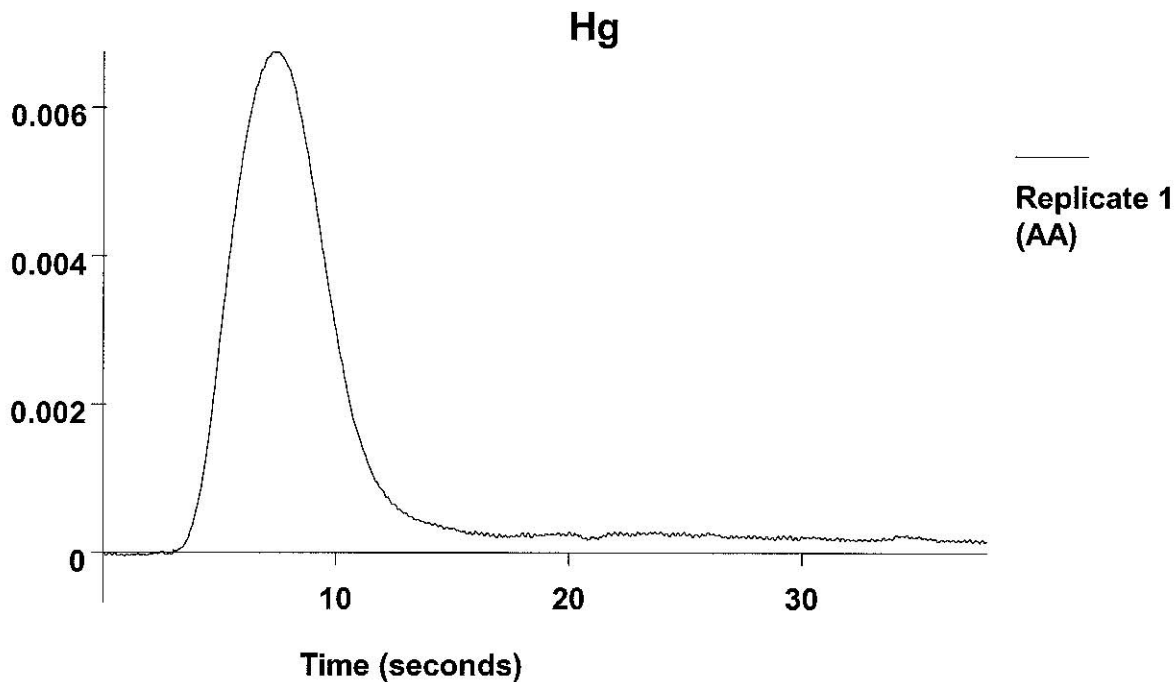
=====
 Element: Hg Seq. No.: 35 AS Loc.: 22 Date: 04/27/2012
 Sample ID: 350581401
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.56	1.56	0.0164	0.0843	0.0167	1 05:54:44	Yes



=====
 Element: Hg Seq. No.: 36 AS Loc.: 23 Date: 04/27/2012
 Sample ID: 350581701
 =====

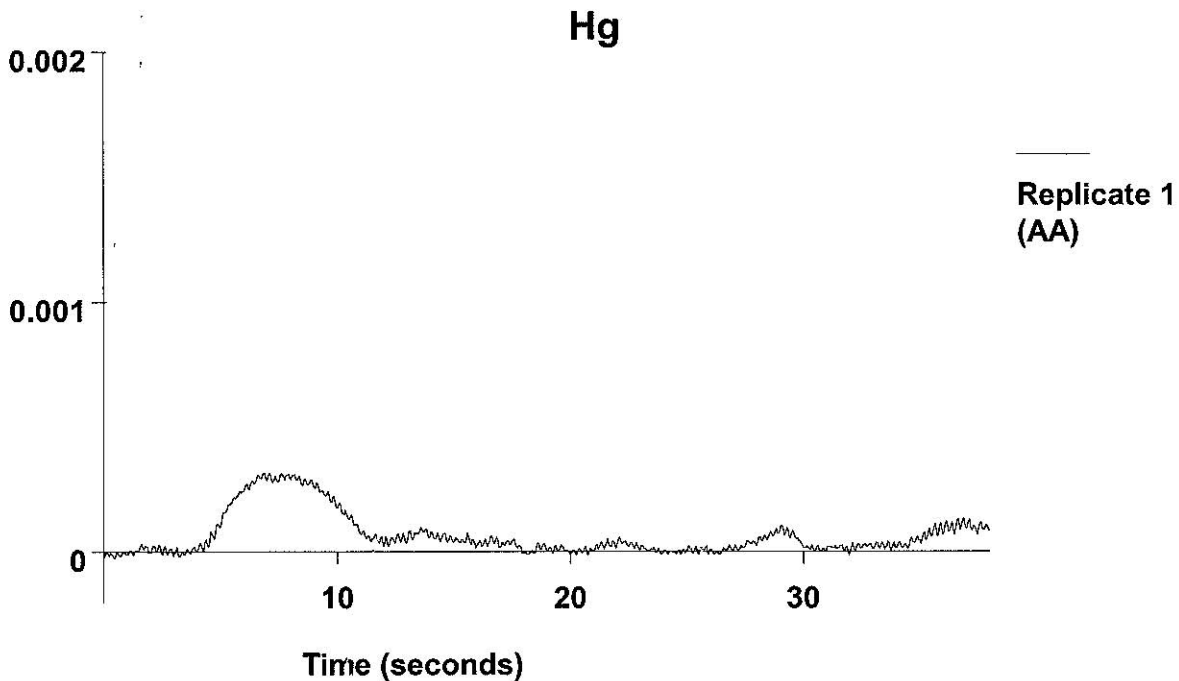
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.606	0.606	0.0064	0.0382	0.0067	1 05:56:31	Yes



=====
 Element: Hg Seq. No.: 37 AS Loc.: 24 Date: 04/27/2012
 =====

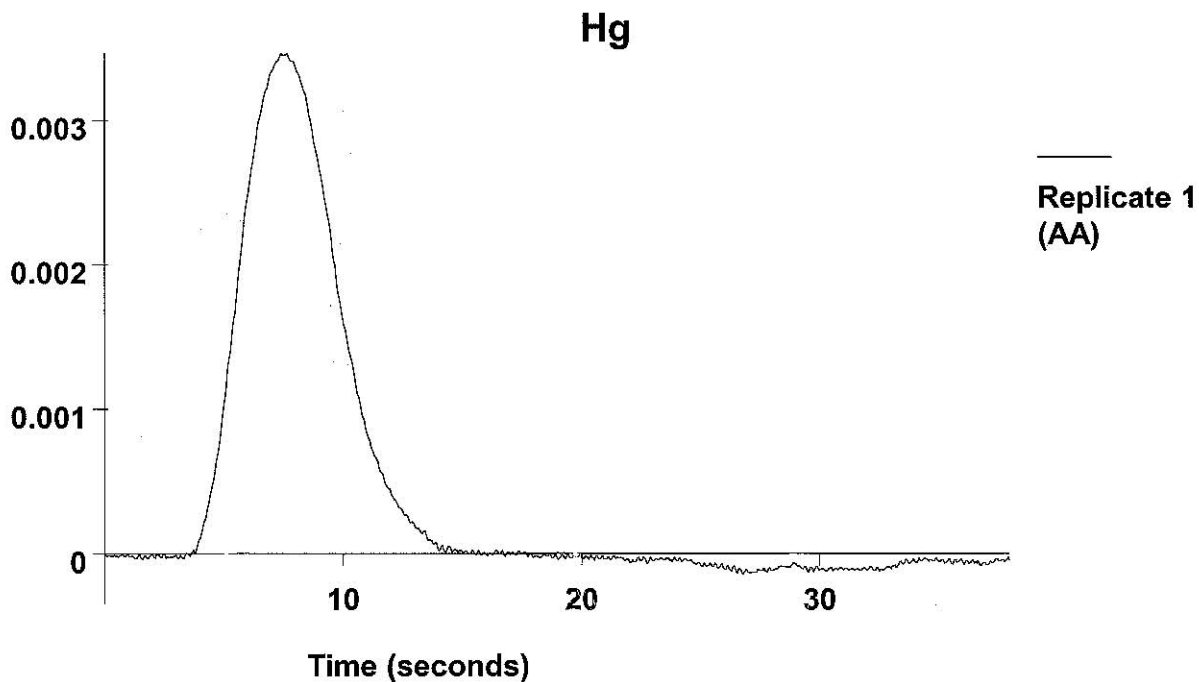
Sample ID: 350581702

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.004	-0.004	0.0000	0.0024	0.0003 1	05:58:19	Yes



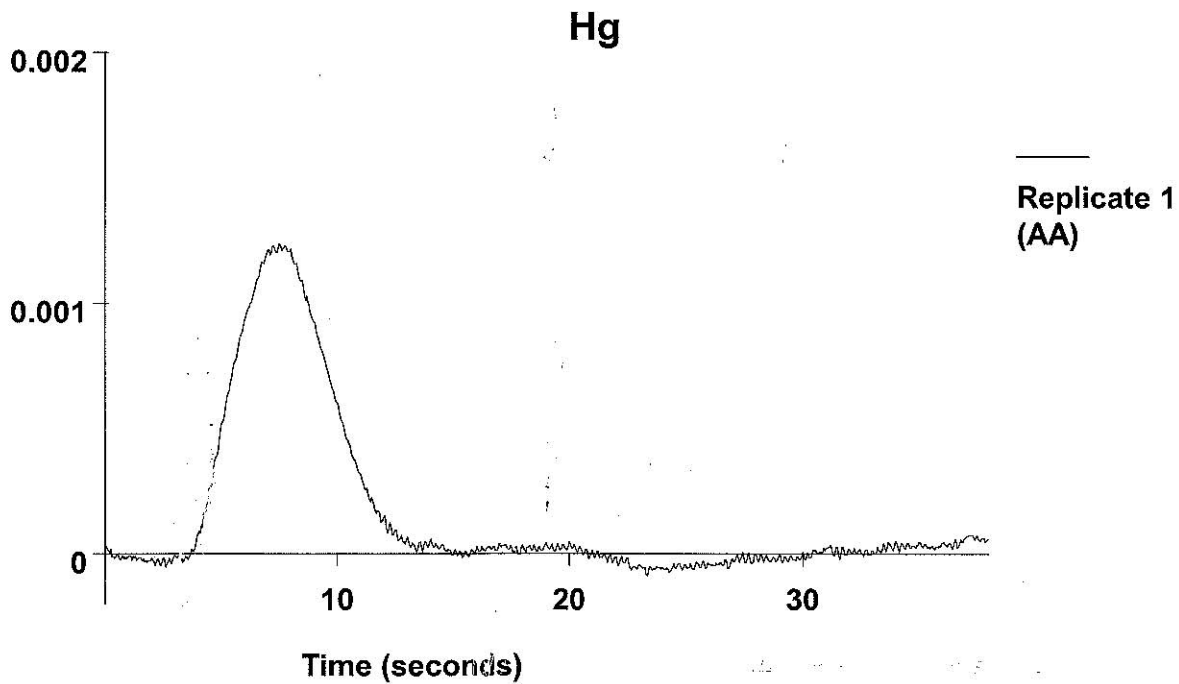
Element: Hg Seq. No.: 38 AS Loc.: 25 Date: 04/27/2012
 Sample ID: 350581703

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.294	0.294	0.0031	0.0148	0.0034 1	06:00:07	Yes



=====
 Element: Hg Seq. No.: 39 AS Loc.: 26 Date: 04/27/2012
 Sample ID: 350583501L
 =====

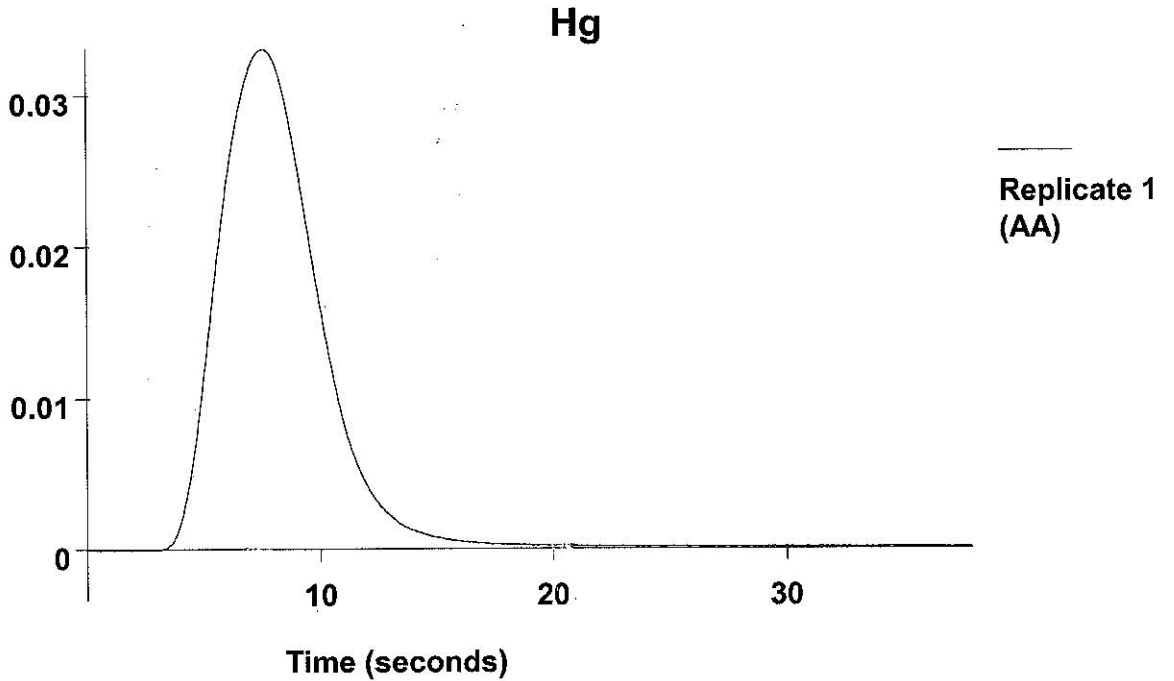
Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.084	0.084	0.0009	0.0058	0.0012	1 06:01:56	Yes



=====
 Element: Hg Seq. No.: 40 AS Loc.: 27 Date: 04/27/2012
 =====

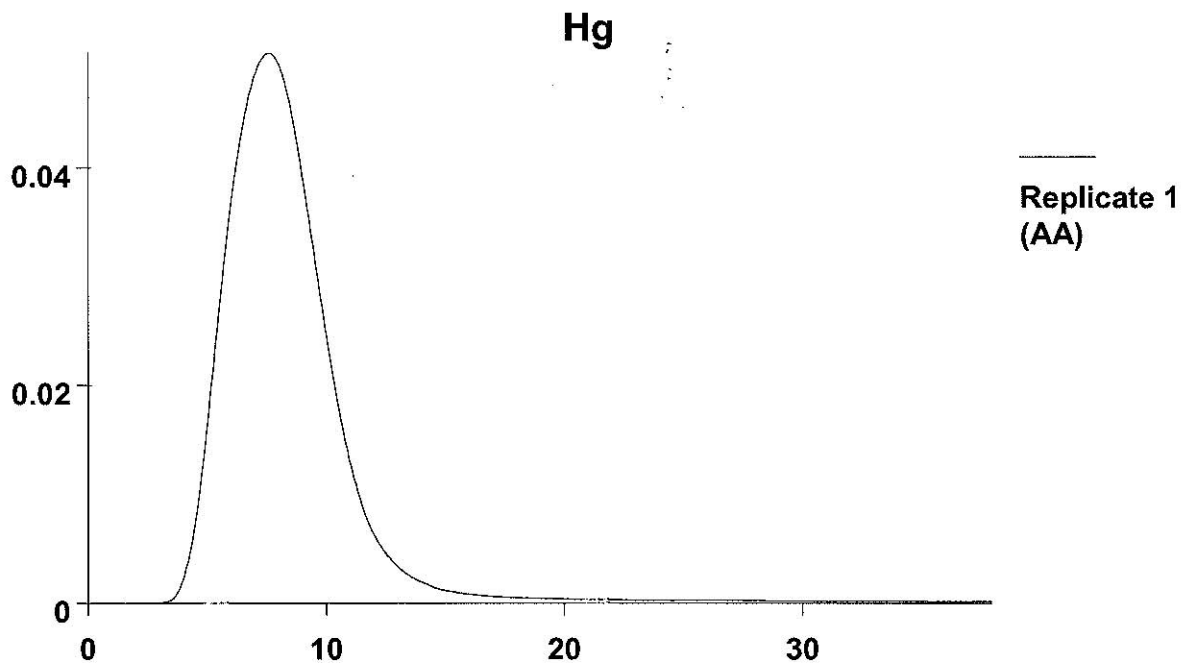
Sample ID: 350583501A

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.10	3.10	0.0326	0.1637	0.0329	1 06:03:46	Yes



=====
 Element: Hg Seq. No.: 41 AS Loc.: 5 Date: 04/27/2012
 Sample ID: CCV
 =====

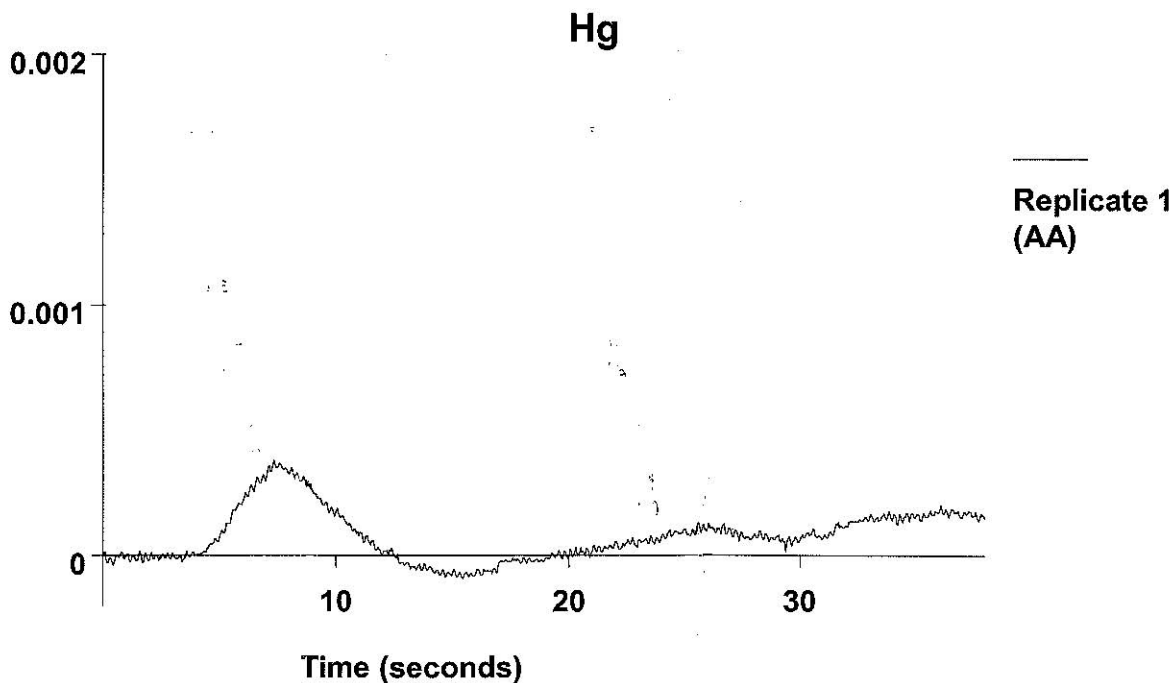
Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.76	4.76	0.0500	0.2490	0.0503	1 06:05:35	Yes



QC value within specified limits.

=====
 Element: Hg Seq. No.: 42 AS Loc.: 1 Date: 04/27/2012
 Sample ID: CCB
 =====

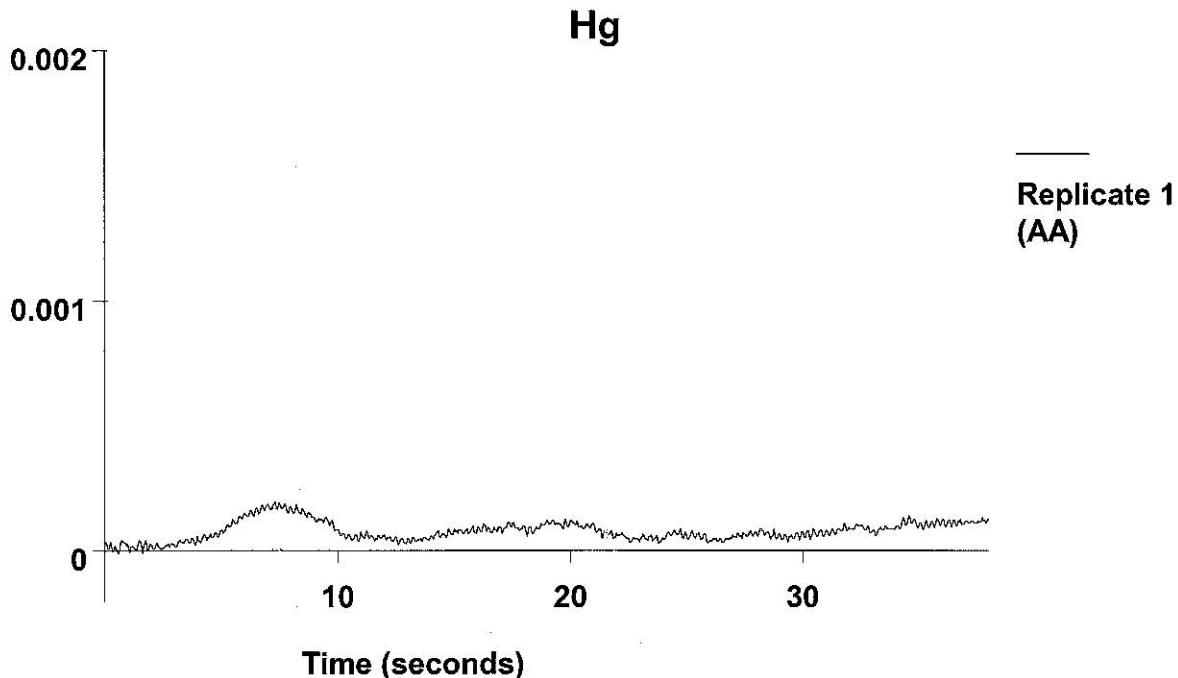
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.002	0.002	0.0001	0.0029	0.0004	1 06:07:23	Yes



QC value within specified limits.

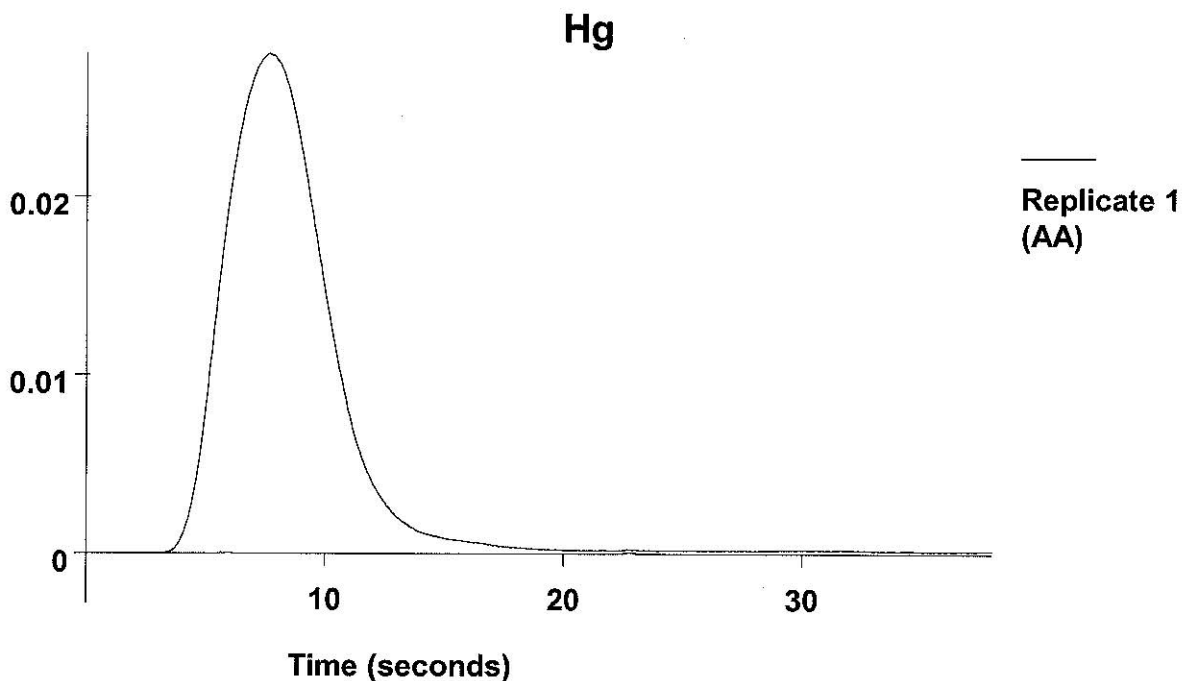
=====
 Element: Hg Seq. No.: 43 AS Loc.: 28 Date: 04/27/2012
 Sample ID: 127984MB

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.015	-0.015	-0.0001	0.0029	0.00021	06:09:10	Yes



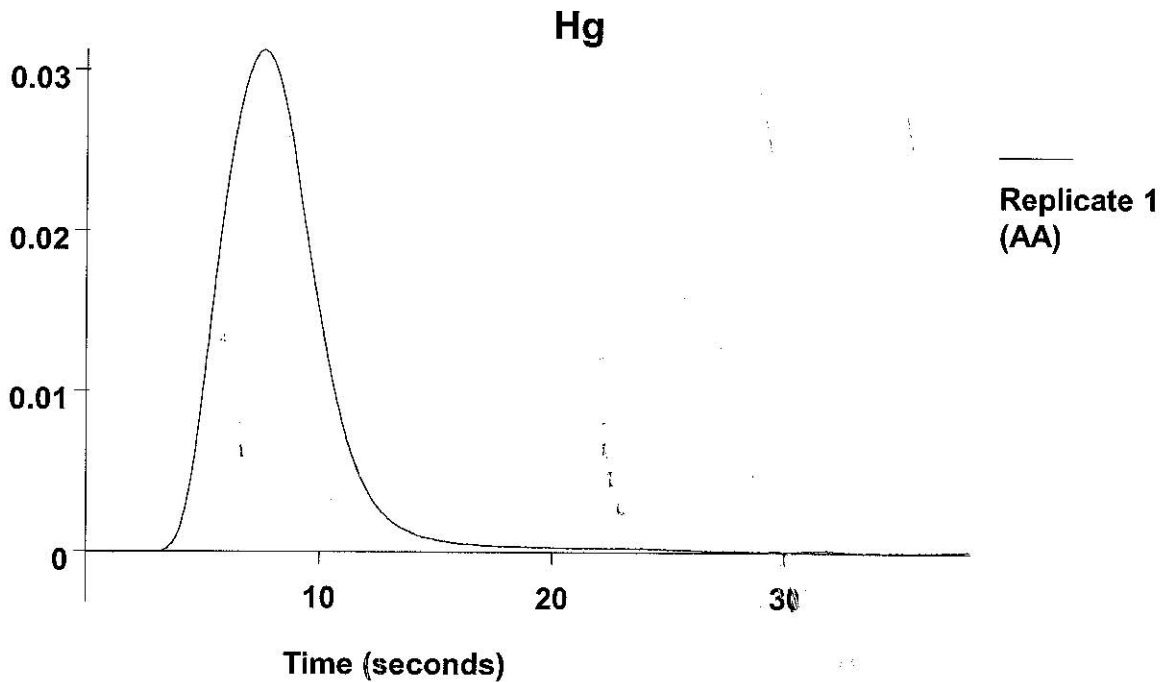
=====
 Element: Hg Seq. No.: 44 AS Loc.: 29 Date: 04/27/2012
 Sample ID: 127985LCS

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.62	2.62	0.0276	0.1426	0.02781	06:11:00	Yes



=====
 Element: Hg Seq. No.: 45 AS Loc.: 30 Date: 04/27/2012
 Sample ID: 127986LCSD
 =====

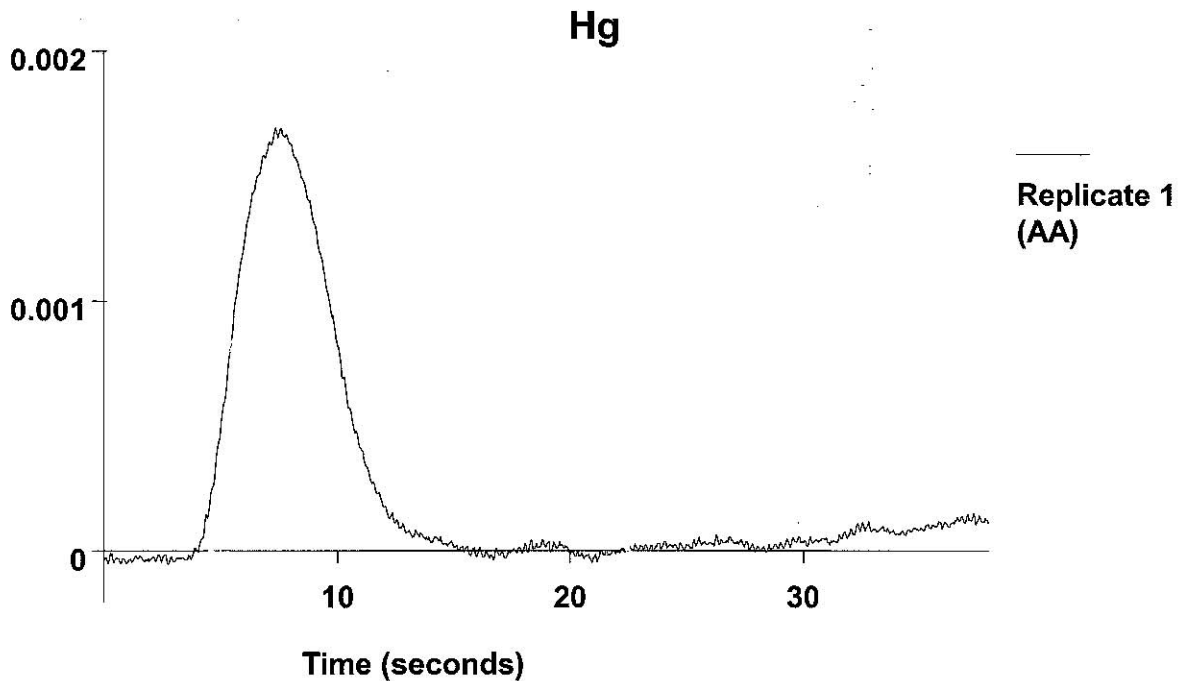
Repl #	Sample Conc µg/L	Std Conc µg/L	Blk Corr Signal	Peak Area	Peak Weight	Time	Peak Stored
1	2.92	2.92	0.0308	0.1531	0.0311	1 06:12:51	Yes



=====
 Element: Hg Seq. No.: 46 AS Loc.: 31 Date: 04/27/2012
 =====

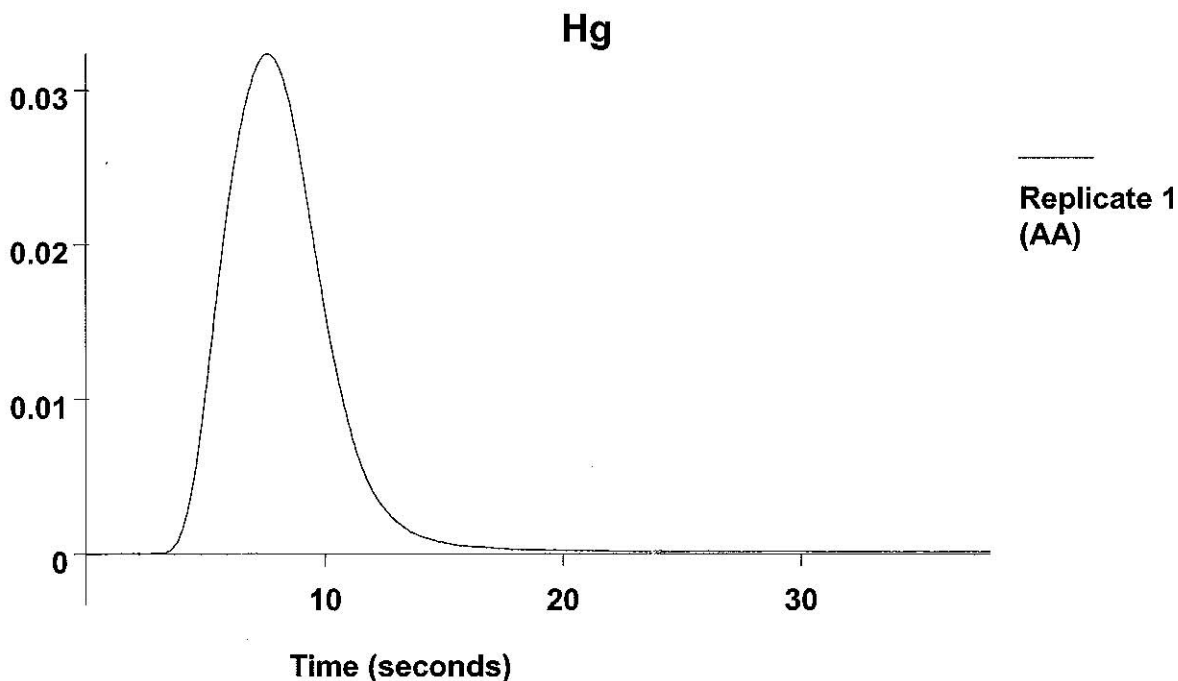
Sample ID: 350584301

Repl #	SampleConc $\mu\text{g/L}$	StndConc $\mu\text{g/L}$	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.126	0.126	0.0014	0.0086	0.0017	06:14:43	Yes



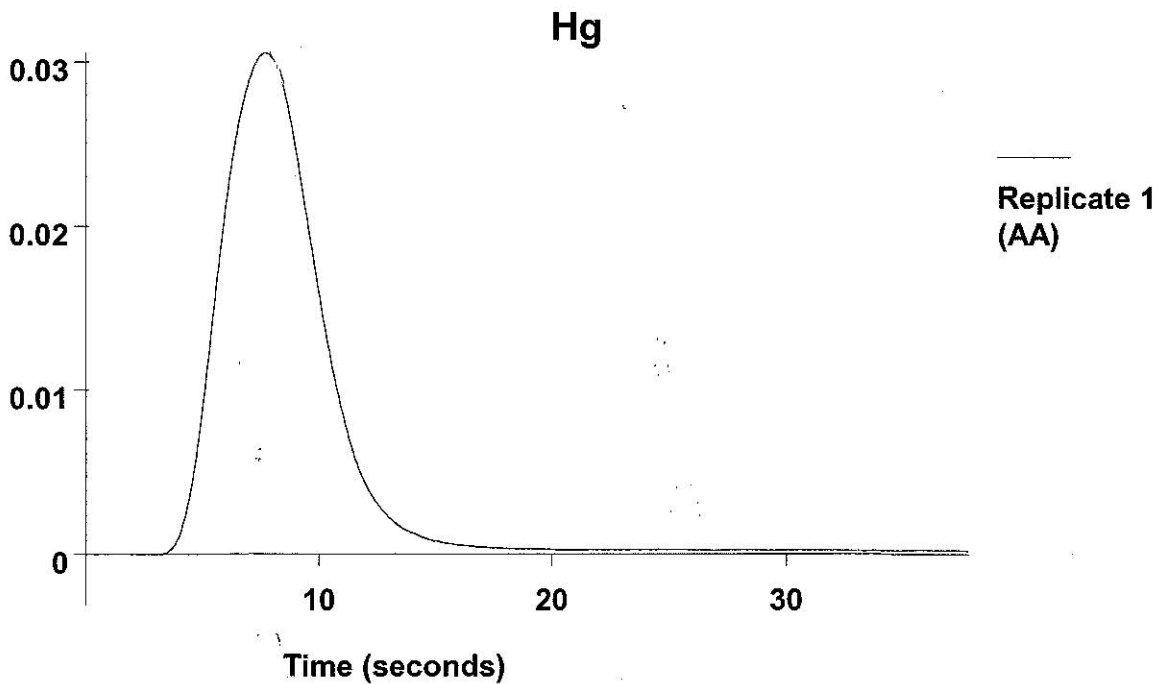
Element: Hg Seq. No.: 47 AS Loc.: 32 Date: 04/27/2012
 Sample ID: 350584302

Repl #	SampleConc $\mu\text{g/L}$	StndConc $\mu\text{g/L}$	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.03	3.03	0.0319	0.1599	0.0322	06:16:31	Yes



=====
 Element: Hg Seq. No.: 48 AS Loc.: 33 Date: 04/27/2012
 Sample ID: 350584303
 =====

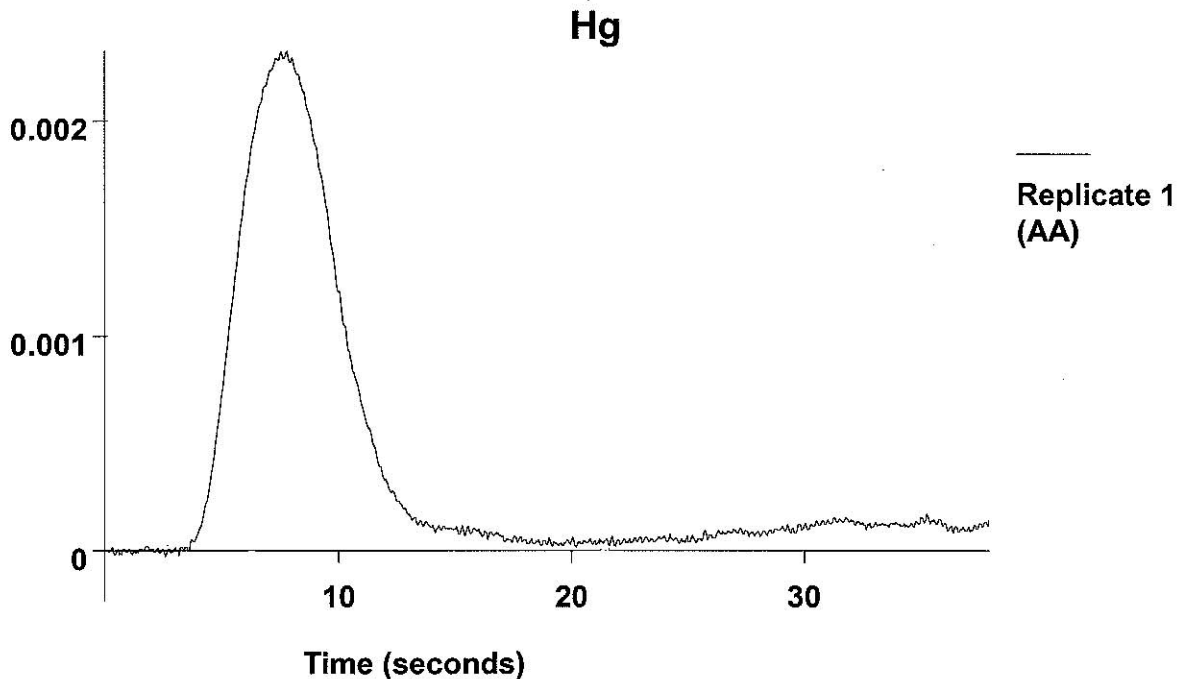
Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.86	2.86	0.0301	0.1555	0.0304	1 06:18:15	Yes



=====
 Element: Hg Seq. No.: 49 AS Loc.: 34 Date: 04/27/2012
 =====

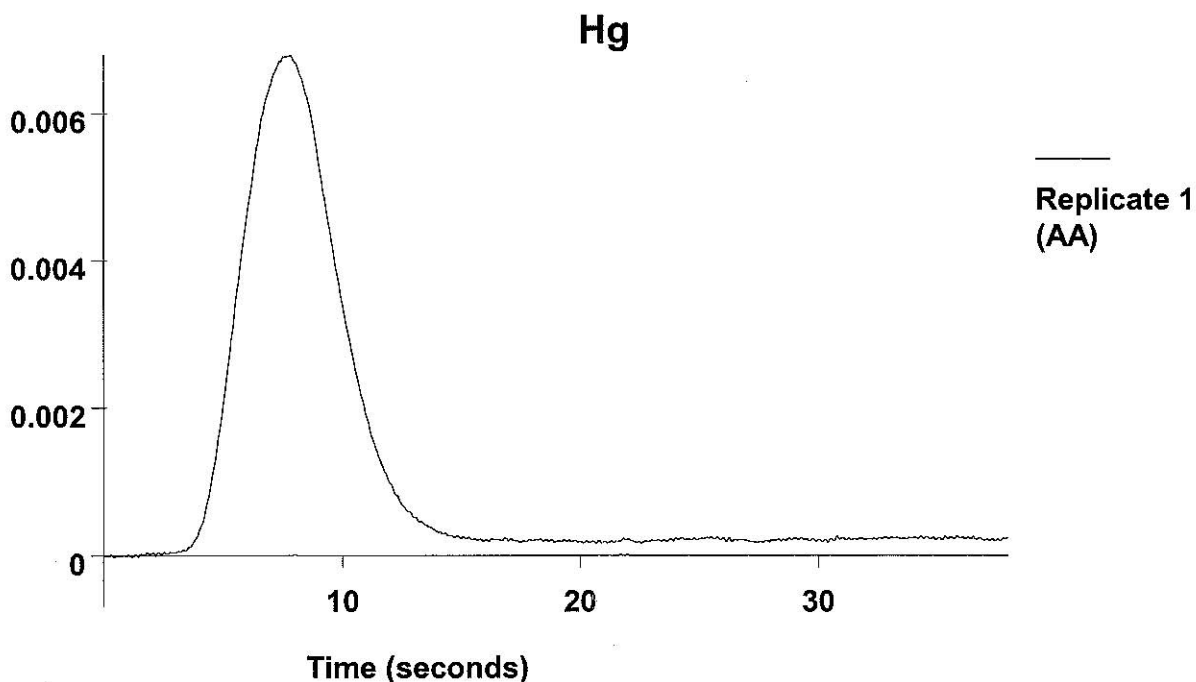
Sample ID: 350584304

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.187	0.187	0.0020	0.0133	0.0023	1 06:20:00	Yes



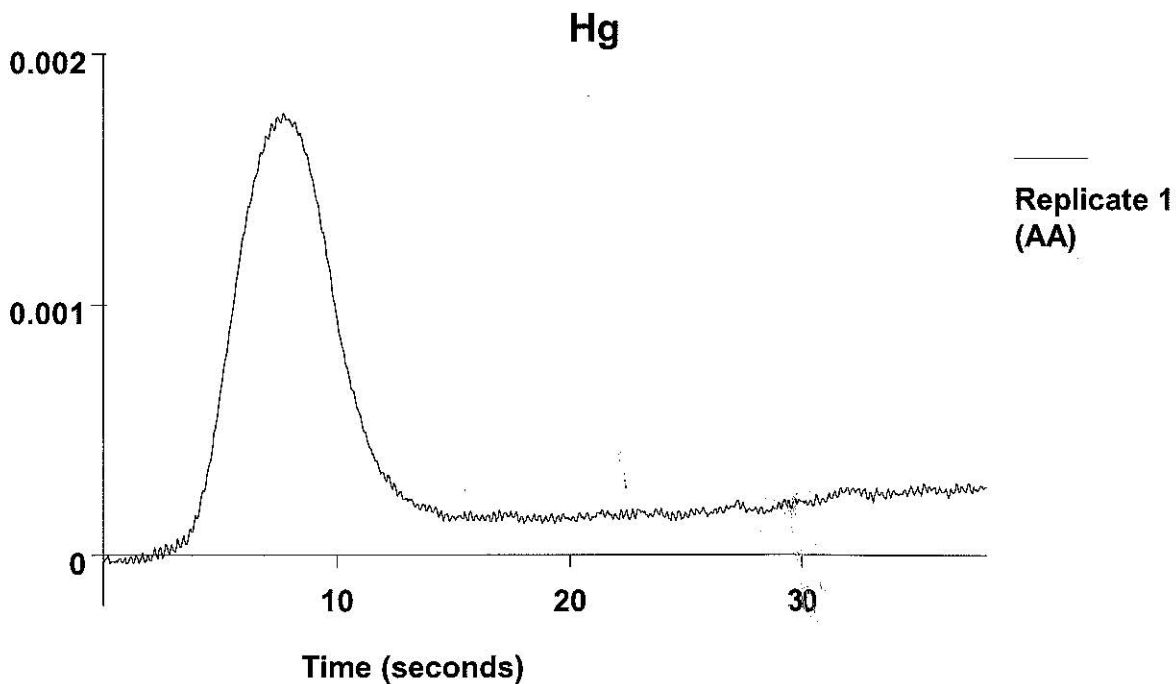
Element: Hg Seq. No.: 50 AS Loc.: 35 Date: 04/27/2012
 Sample ID: 350584305

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.610	0.610	0.0065	0.0376	0.0068	1 06:21:45	Yes



=====
 Element: Hg Seq. No.: 51 AS Loc.: 36 Date: 04/27/2012
 Sample ID: 350584306
 =====

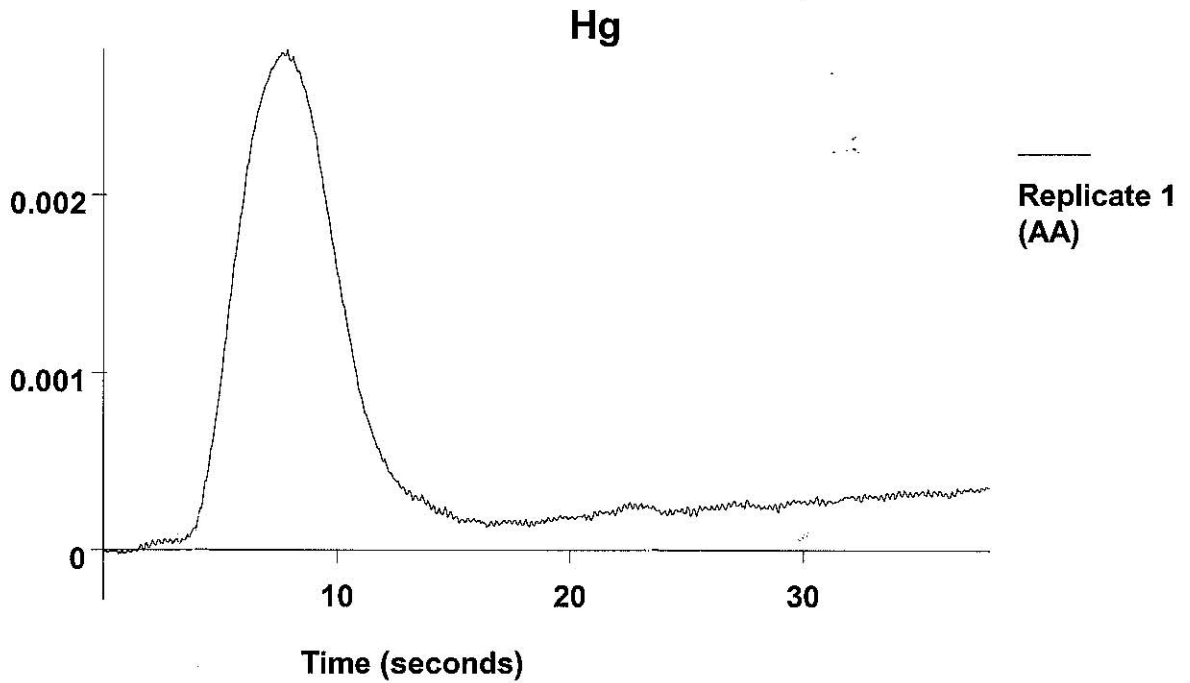
Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.133	0.133	0.0014	0.0136	0.0017	1 06:23:31	Yes



=====
 Element: Hg Seq. No.: 52 AS Loc.: 37 Date: 04/27/2012
 =====

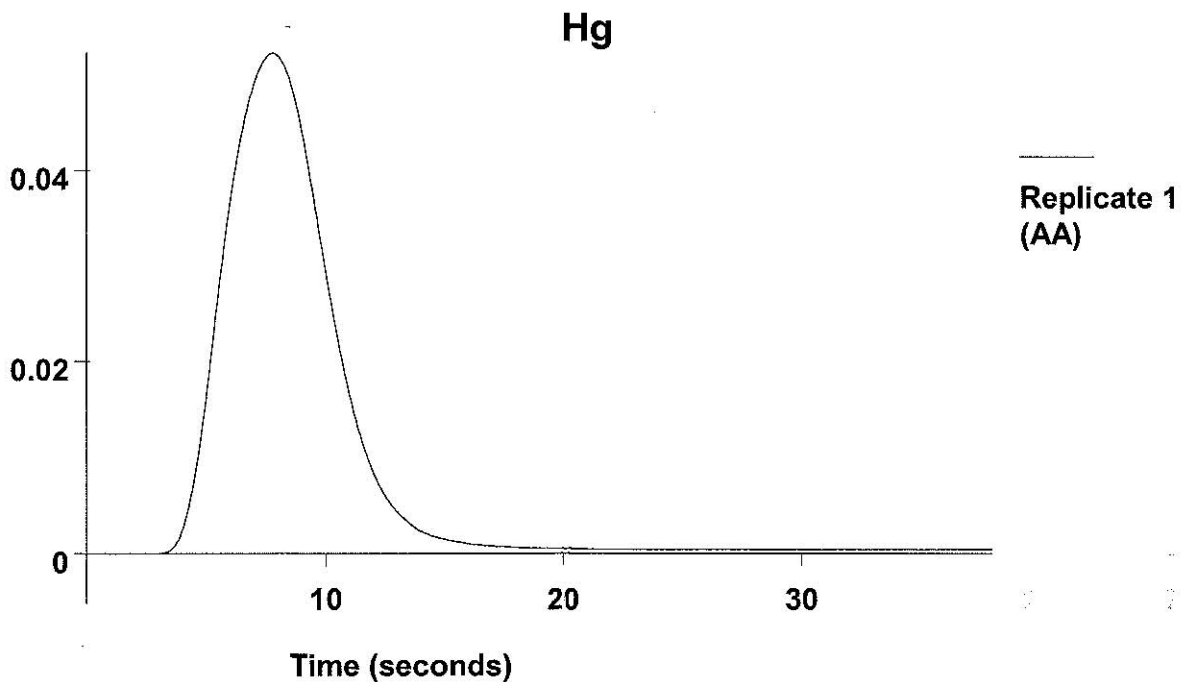
Sample ID: 350584307

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.232	0.232	0.0025	0.0202	0.0028	1 06:25:16	Yes



=====
 Element: Hg Seq. No.: 53 AS Loc.: 5 Date: 04/27/2012
 Sample ID: CCV
 =====

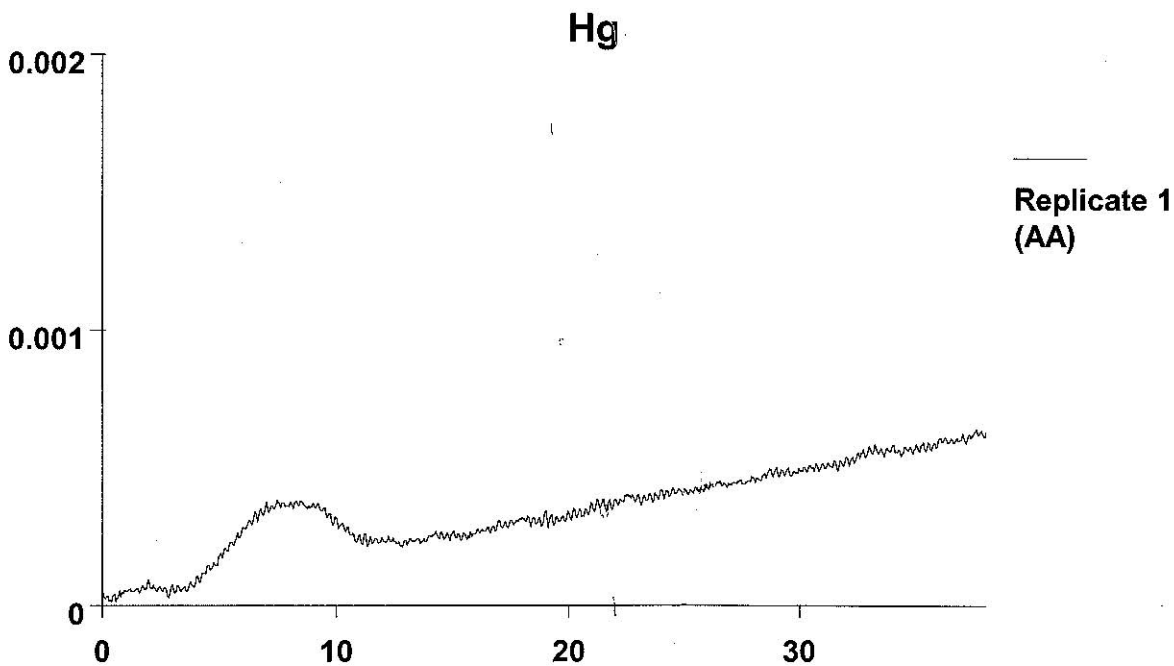
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.91	4.91	0.0517	0.2755	0.0520	1 06:27:03	Yes



QC value within specified limits.

 Element: Hg Seq. No.: 54 AS Loc.: 1 Date: 04/27/2012
 Sample ID: CCB

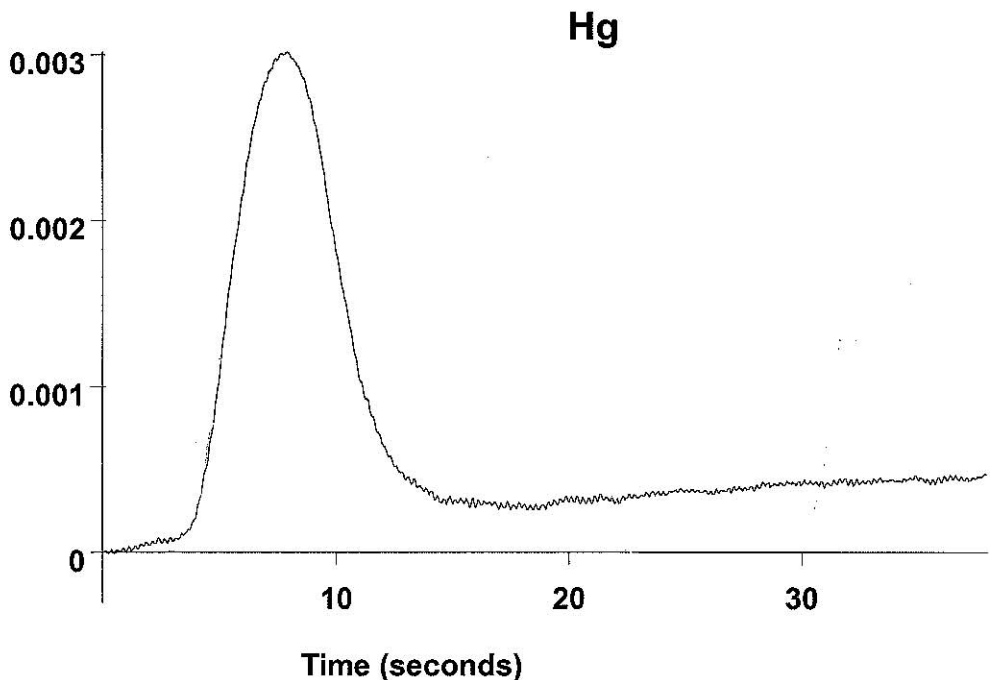
Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.027	0.027	0.0003	0.0132	0.0006	1 06:28:51	Yes



QC value within specified limits.

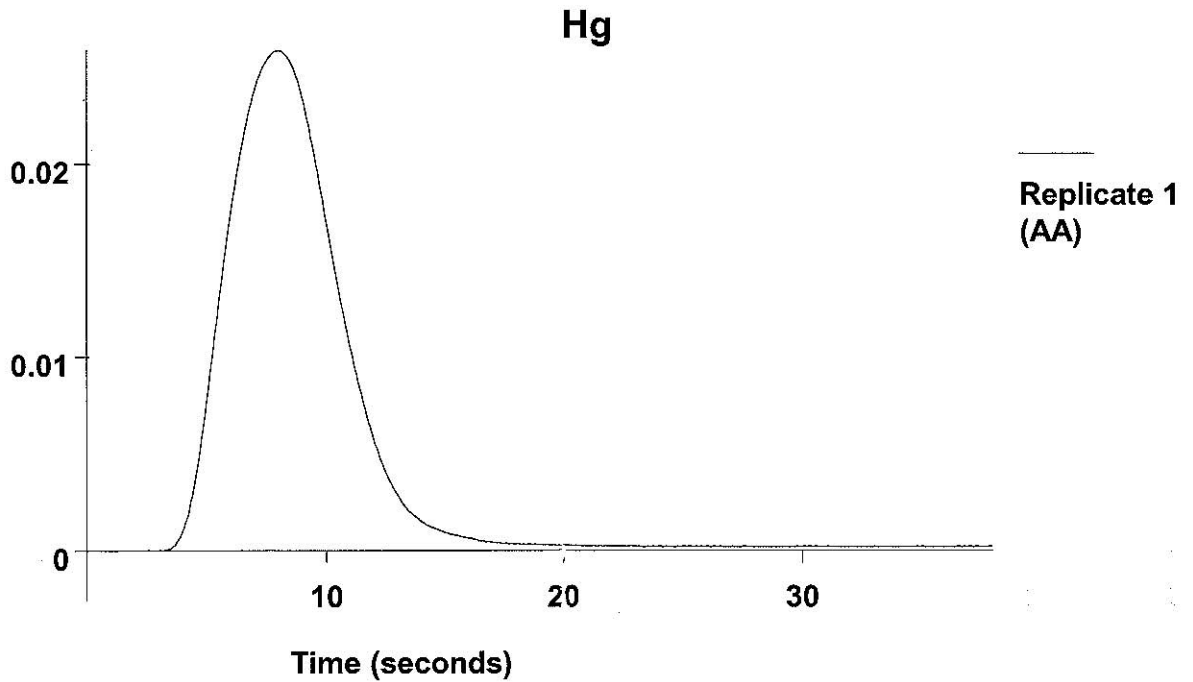
=====
 Element: Hg Seq. No.: 55 AS Loc.: 38 Date: 04/27/2012
 Sample ID: 350584308
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.253	0.253	0.0027	0.0251	0.0030	1 06:30:37	Yes



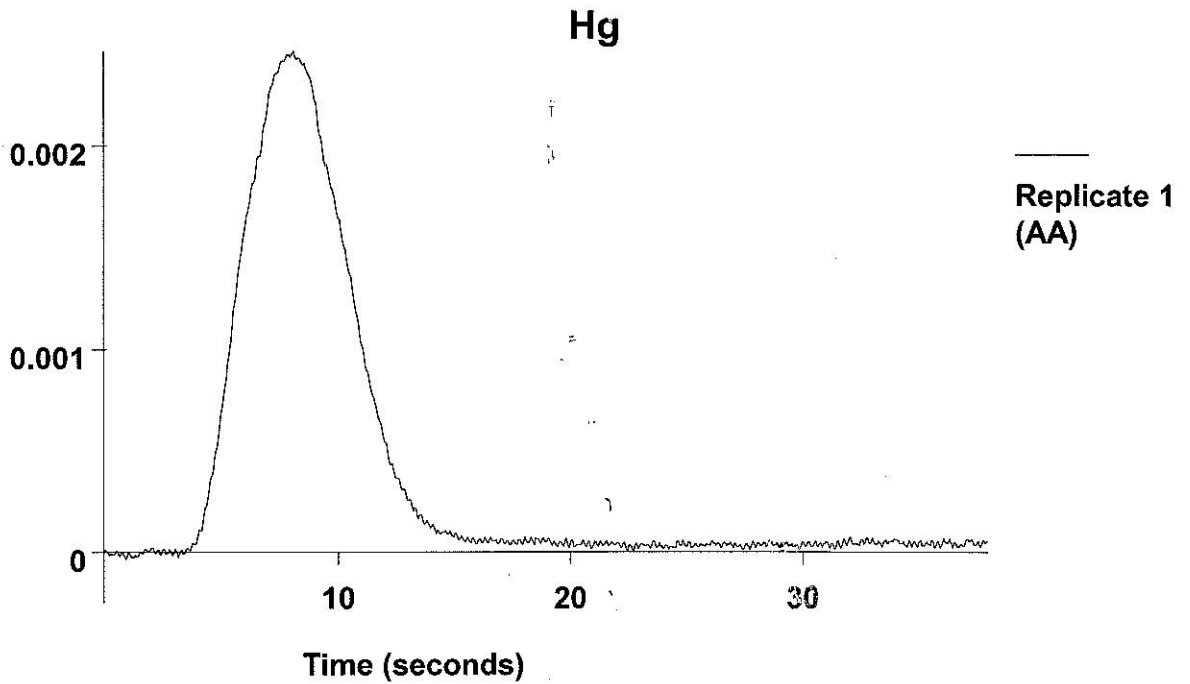
=====
 Element: Hg Seq. No.: 56 AS Loc.: 39 Date: 04/27/2012
 Sample ID: 350584309
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.42	2.42	0.0255	0.1427	0.0258	1 06:32:22	Yes



=====
 Element: Hg Seq. No.: 57 AS Loc.: 40 Date: 04/27/2012
 Sample ID: 350584310
 =====

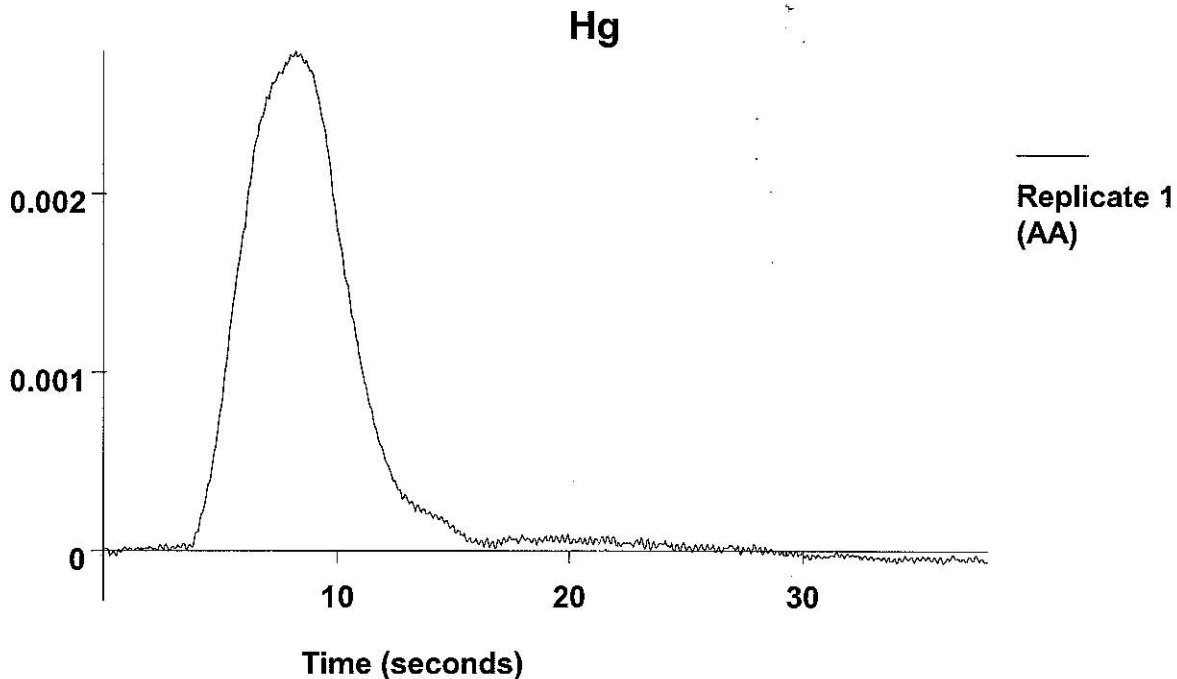
Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.199	0.199	0.0021	0.0137	0.0024	1 06:34:10	Yes



=====
 Element: Hg Seq. No.: 58 AS Loc.: 41 Date: 04/27/2012
 =====

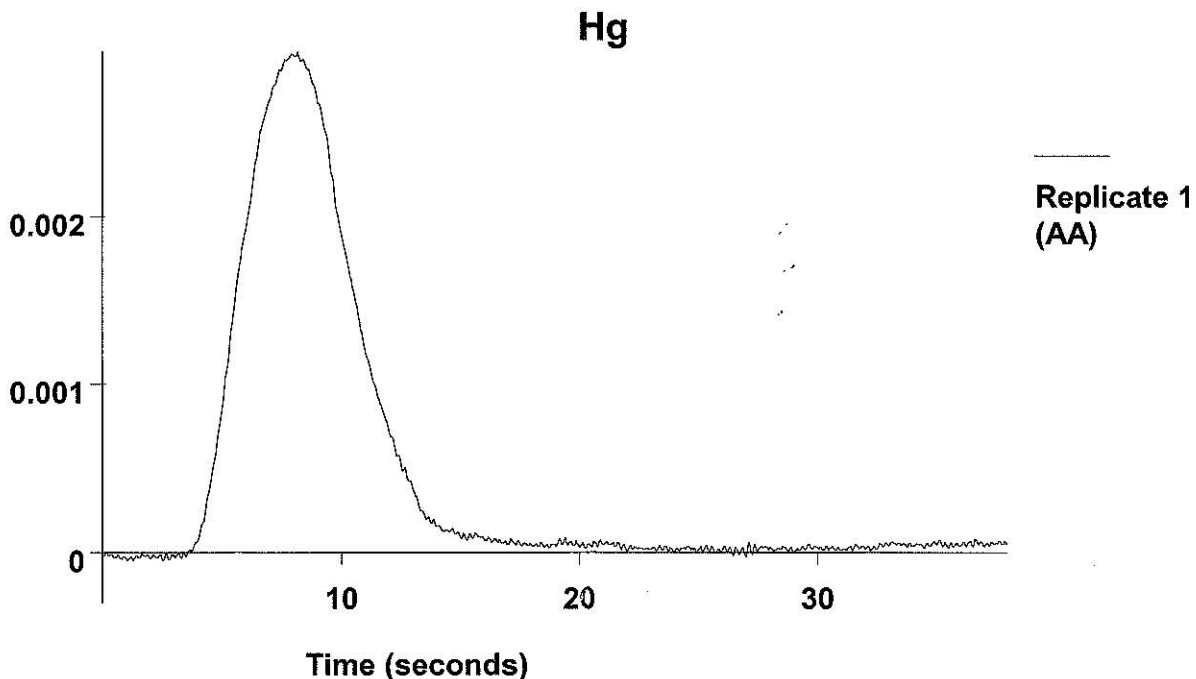
Sample ID: 350584311

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.231	0.231	0.0025	0.0149	0.0028	06:35:58	Yes



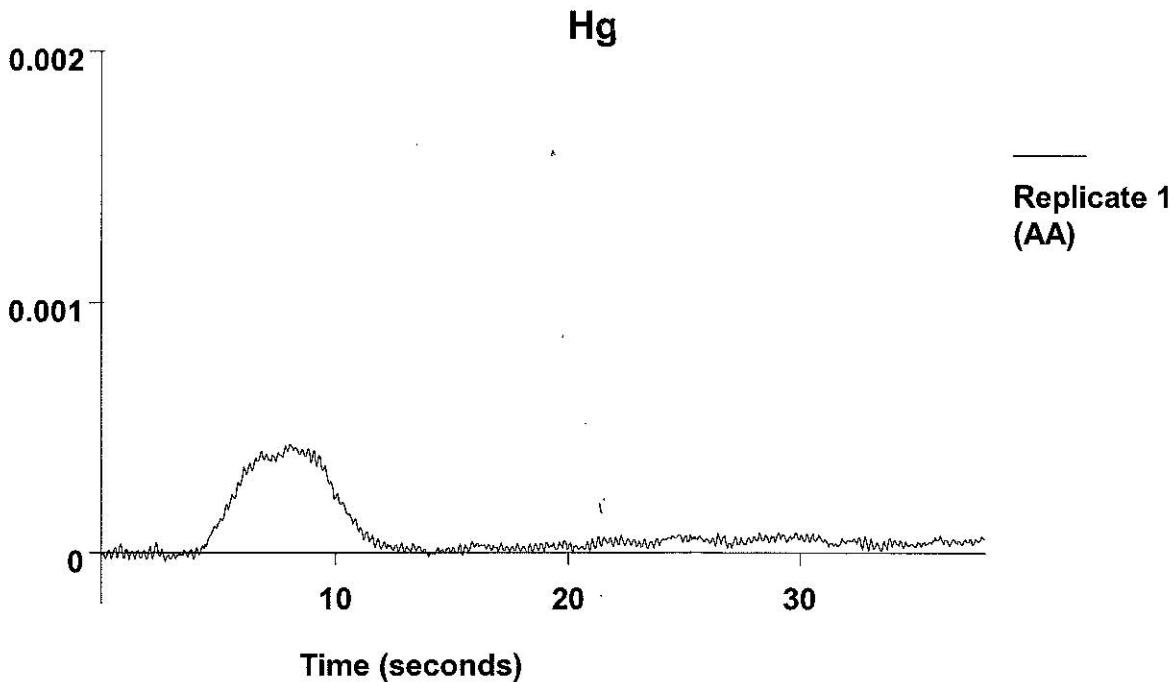
Element: Hg Seq. No.: 59 AS Loc.: 42 Date: 04/27/2012
 Sample ID: 350584312

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.248	0.248	0.0027	0.0165	0.0030	06:37:46	Yes



=====
 Element: Hg Seq. No.: 60 AS Loc.: 43 Date: 04/27/2012
 Sample ID: 350584301L
 =====

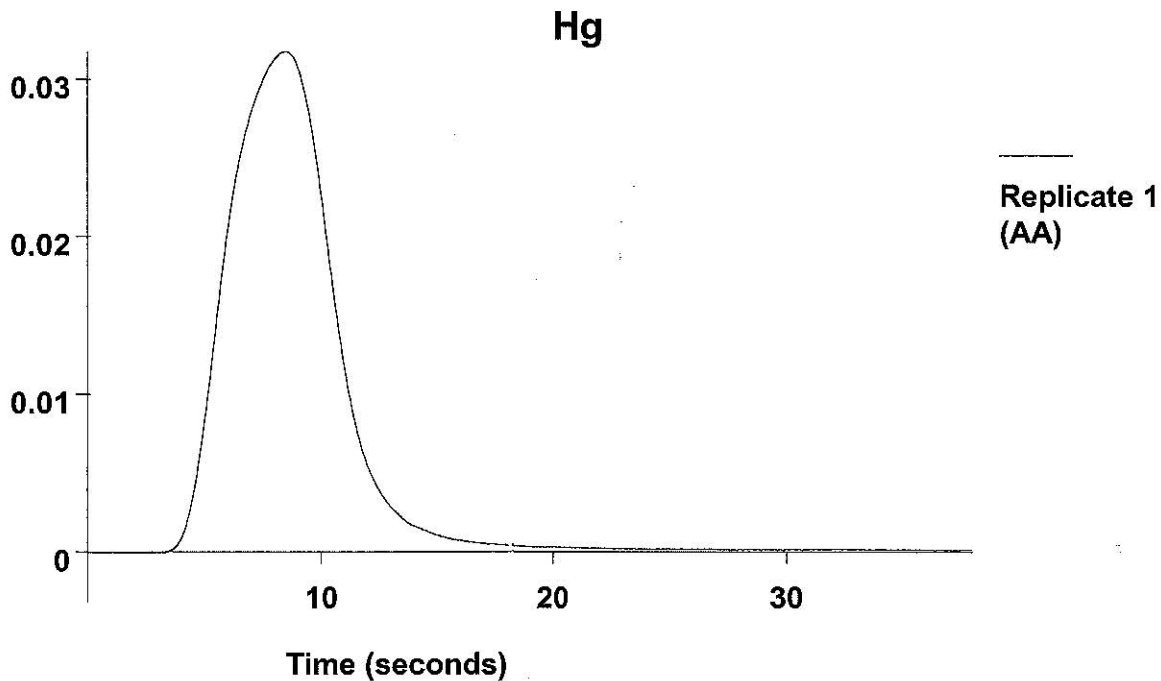
Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.007	0.007	0.0001	0.0029	0.0004	1 06:39:35	Yes



=====
 Element: Hg Seq. No.: 61 AS Loc.: 44 Date: 04/27/2012
 =====

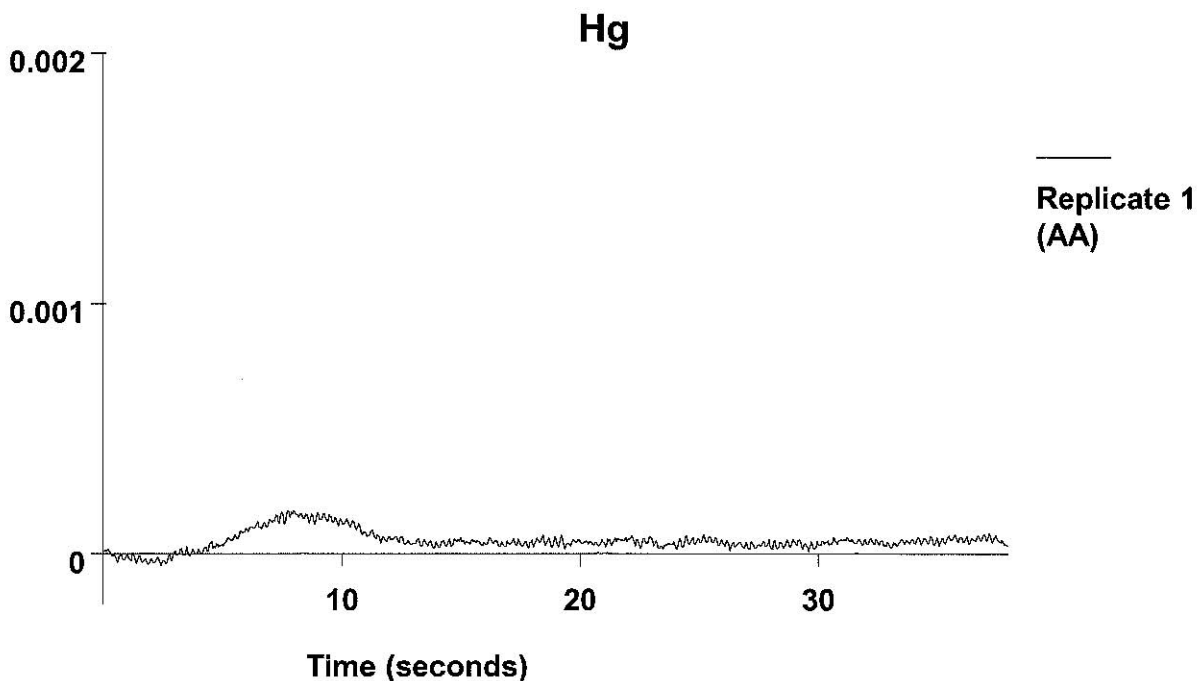
Sample ID: 350584301A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.98	2.98	0.0313	0.1691	0.0316	06:41:25	Yes



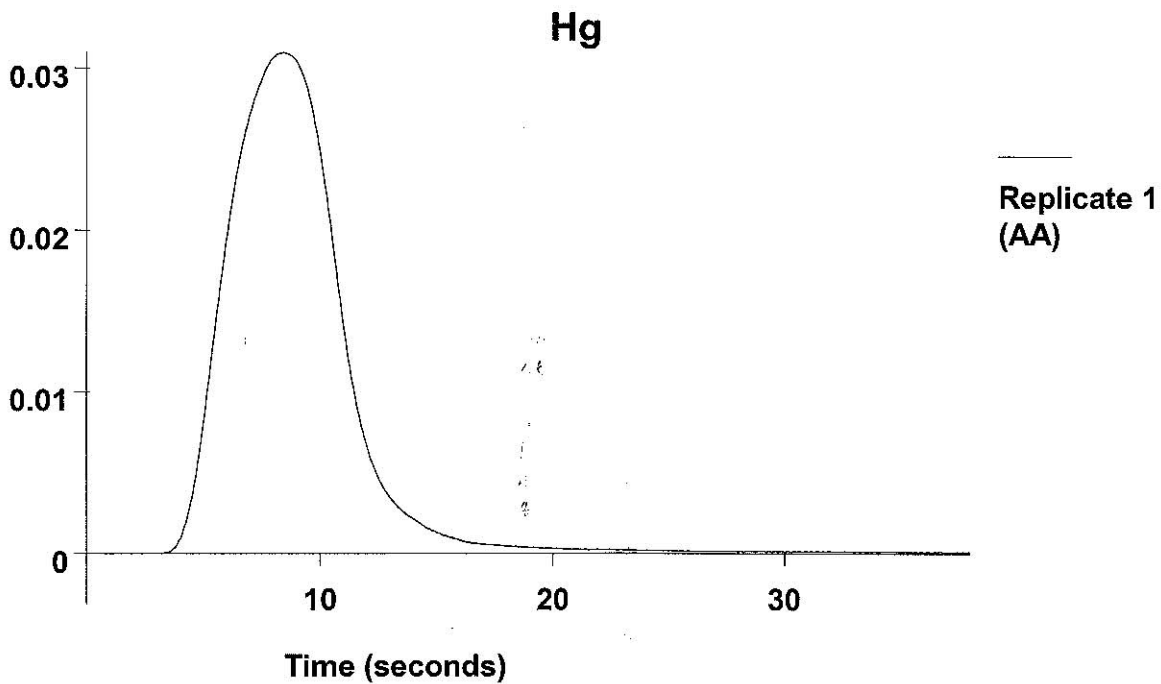
Element: Hg Seq. No.: 62 AS Loc.: 45 Date: 04/27/2012
 Sample ID: 127997MB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.017	-0.017	-0.0001	0.0020	0.0002	06:43:15	Yes



=====
 Element: Hg Seq. No.: 63 AS Loc.: 45 Date: 04/27/2012
 Sample ID: 127998LCS
 =====

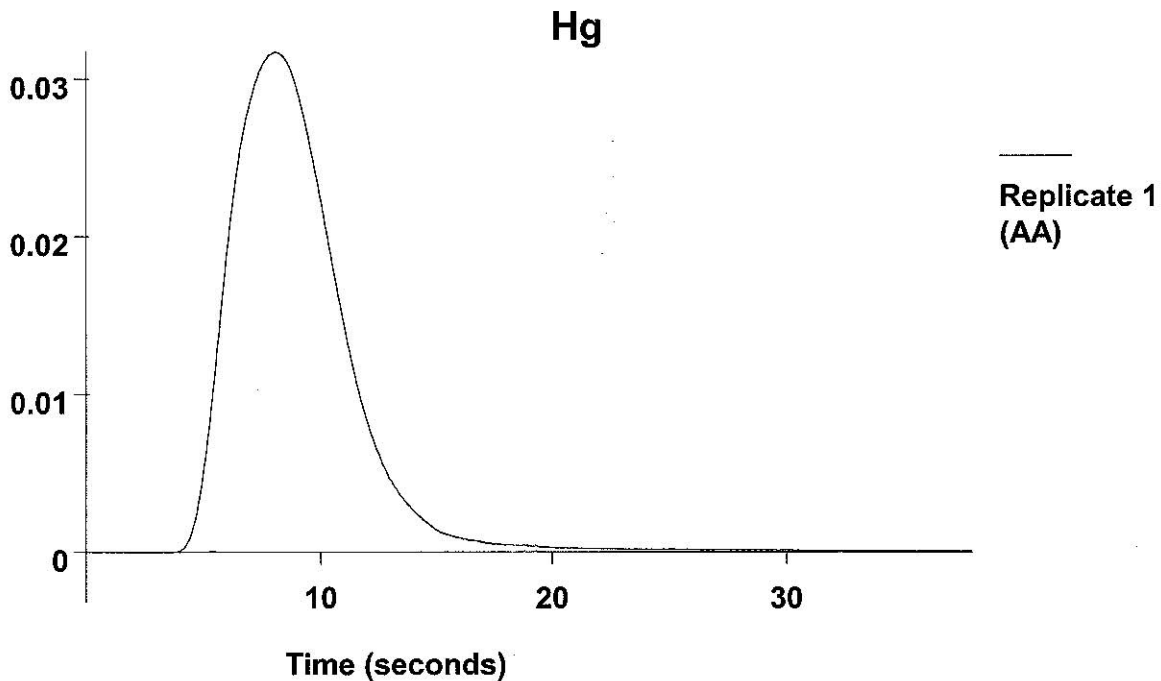
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.90	2.90	0.0306	0.1744	0.0309	06:45:06	Yes



=====
 Element: Hg Seq. No.: 64 AS Loc.: 47 Date: 04/27/2012
 =====

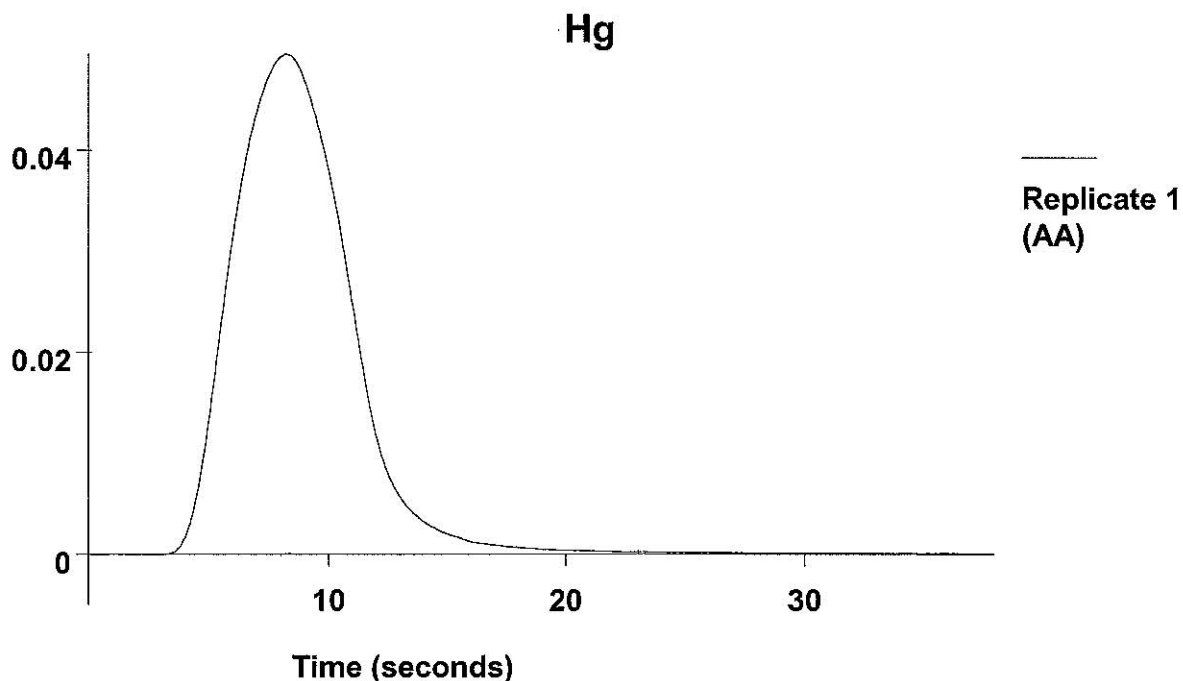
Sample ID: 127999LCSD

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.97	2.97	0.0313	0.1732	0.0316	06:46:57	Yes



Element: Hg Seq. No.: 65 AS Loc.: 5 Date: 04/27/2012
 Sample ID: CCV

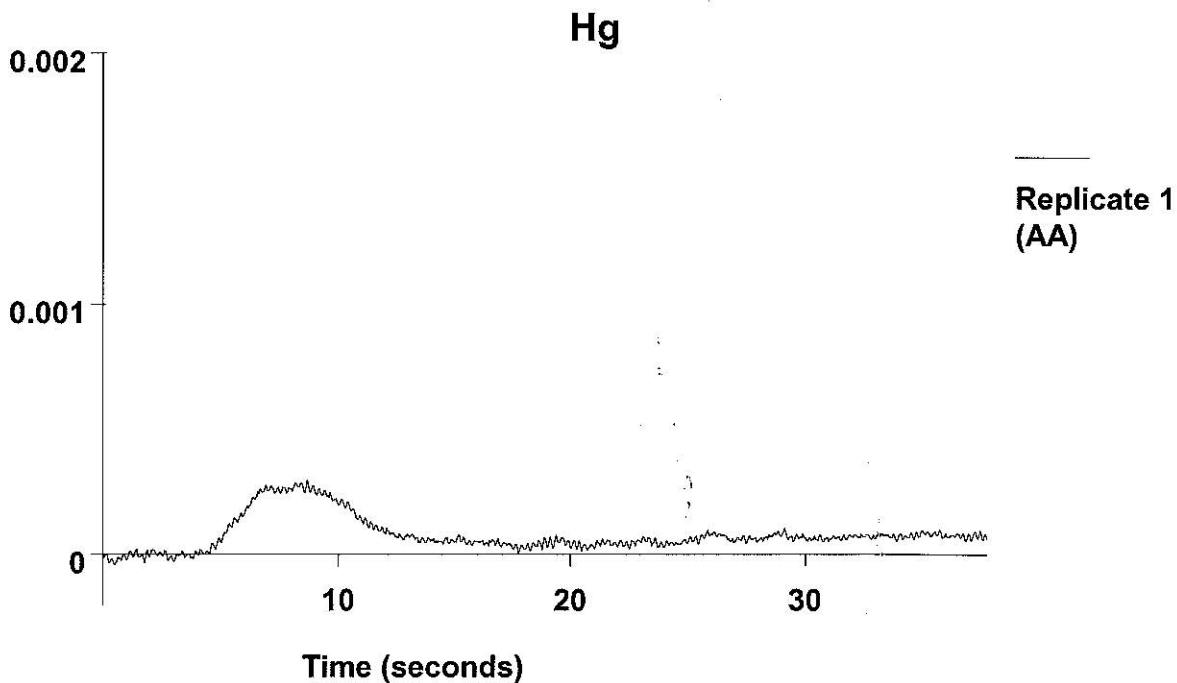
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.66	4.66	0.0491	0.2765	0.0494	06:48:47	Yes



QC value within specified limits.

=====
 Element: Hg Seq. No.: 66 AS Loc.: 1 Date: 04/27/2012
 Sample ID: CCB
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.006	-0.006	0.0000	0.0029	0.0003	1 06:50:35	Yes



QC value within specified limits.

Seq. No.	AS Loc:	Date:						
1	1	4/27/12						
Sample ID:	Calib Blank							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg			0.0004	-0.0005	158.2564	0.0004	4.1647	16:23:06
Auto-zero performed.								
Mean:			0.0004					
SD:								
%RSD:								

Seq. No.	AS Loc:	Date:						
2	2	4/27/12						
Sample ID:	CS1							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg			0.0013	0.0085	158.2646	0.0017	4.1649	16:24:52
[Hg] Standard number 1 applied. [0.100]								
Correlation Coefficient: 1.00000			Slope: 0.01318					
Intercept : 0.00000								
Mean:			0.0013					
SD:								
%RSD:								

Seq. No.	AS Loc:	Date:						
3	3	4/27/12						
Sample ID:	CS2							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg			0.0043	0.0209	158.2787	0.0047	4.1652	16:26:40
[Hg] Standard number 2 applied. [0.500]								
Correlation Coefficient: 0.99367			Slope: 0.00830					
Intercept : 0.00022								
Mean:			0.0043					
SD:								
%RSD:								

Seq. No.	AS Loc:	Date:						
4	4	4/27/12						
Sample ID:	CS3							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg			0.0094	0.0476	158.2947	0.0098	4.1657	16:28:30
[Hg] Standard number 3 applied. [1.00]								
Correlation Coefficient: 0.99752			Slope: 0.00917					
Intercept : 0.00009								
Mean:			0.0094					
SD:								
%RSD:								

Seq. No.	AS Loc:	Date:						
5	5	4/27/12						
Sample ID:	CS4							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg			0.0389	0.2215	158.3170	0.0393	4.1662	16:30:20
[Hg] Standard number 4 applied. [5.00]								
Correlation Coefficient: 0.99919			Slope: 0.00769					
Intercept : 0.00064								
Mean:			0.0389					
SD:								
%RSD:								

Seq. No.	AS Loc:	Date:						
6	6	4/27/12						
Sample ID:	CS5							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg			0.0689	0.3925	158.3339	0.0693	4.1667	16:32:12
[Hg] Standard number 5 applied. [10.0]								
Correlation Coefficient: 0.99802			Slope: 0.00691					
Intercept : 0.00135								
Mean:			0.0689					
SD:								
%RSD:								

Seq. No.	AS Loc:	Date:						
7	7	4/27/12						
Sample ID:	ICV							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	2.47µg/L	2.47µg/L	0.0184	0.1030	158.3413	0.0188	4.1669	16:34:09
Mean:	2.47µg/L	2.47µg/L	0.0184					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	Date:						
8	7	4/27/12						
Sample ID:	ICV							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	4.71µg/L	4.71µg/L	0.0339	0.1491	158.4035	0.0343	4.1685	16:59:02
QC failed, value greater than upper limit for Hg.								
Current analysis method stopped.								
Mean:	4.71	4.71	0.0339					
SD:	0.000	0.000						
%RSD:								

Seq. No.	AS Loc:	Date:						
9	1	4/27/12						
Sample ID:	Calib Blank							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg			0.0003	0.0034	158.3874	0.0003	4.1681	17:07:43
Auto-zero performed.								
Mean:			0.0003					
SD:								
%RSD:								

Seq. No.	AS Loc:	Date:						
10	2	4/27/12						
Sample ID:	CS1							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg			0.0015	0.0061	158.3758	0.0018	4.1678	17:09:31
[Hg] Standard number 1 applied. [0.100]								
Correlation Coefficient: 1.00000			Slope: 0.01482					
Intercept : 0.00000								
Mean:			0.0015					
SD:								
%RSD:								

Seq. No.	AS Loc:	Date:						
11	3	4/27/12						
Sample ID:	CS2							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg			0.0043	0.0201	158.3689	0.0046	4.1676	17:11:19
[Hg] Standard number 2 applied. [0.500]								
Correlation Coefficient: 0.98765			Slope: 0.00812					

Intercept : 0.00030

Mean: 0.0043
SD:
%RSD:

Seq. No.	AS Loc:	Date:							
12	4	4/27/12							
Sample ID:	CS3								
Elem	SampleConc	StndConc	Blank Corr	Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg			0.0108		0.0530	158.3714	0.0111	4.1677	17:13:07
[Hg] Standard number 3 applied. [1.00]									
Correlation Coefficient: 0.99131			Slope: 0.01041						
Intercept : -0.00003									

Mean: 0.0108
SD:
%RSD:

Seq. No.	AS Loc:	Date:							
13	5	4/27/12							
Sample ID:	CS4								
Elem	SampleConc	StndConc	Blank Corr	Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg			0.0535		0.2423	158.3678	0.0538	4.1676	17:14:57
[Hg] Standard number 4 applied. [5.00]									
Correlation Coefficient: 0.99969			Slope: 0.01072						
Intercept : -0.00014									

Mean: 0.0535
SD:
%RSD:

Seq. No.	AS Loc:	Date:							
14	6	4/27/12							
Sample ID:	CS5								
Elem	SampleConc	StndConc	Blank Corr	Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg			0.1048		0.4787	158.3607	0.1051	4.1674	17:16:47
[Hg] Standard number 5 applied. [10.0]									
Correlation Coefficient: 0.99987			Slope: 0.01051						
Intercept : 0.00005									

Mean: 0.1048
SD:
%RSD:

Seq. No.	AS Loc:	Date:							
15	7	4/27/12							
Sample ID:	ICV								
Elem	SampleConc	StndConc	Blank Corr	Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	3.15µg/L	3.15µg/L	0.0332		0.1543	158.3571	0.0335	4.1673	17:18:44
QC value within specified limits.									

Mean: 3.15µg/L
SD: 0.000µg/L
%RSD: 0.000µg/L

Seq. No.	AS Loc:	Date:							
16	1	4/27/12							
Sample ID:	ICB								
Elem	SampleConc	StndConc	Blank Corr	Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	-0.010µg/L	-0.010µg/L	-0.0001		0.0011	158.3515	0.0002	4.1671	17:20:34
QC value within specified limits.									

Mean: -0.010µg/L
SD: 0.000µg/L
%RSD: 0.000µg/L

Seq. No.	AS Loc:	Date:						
Seq. No.	17	AS Loc:	5	Date:	4/27/12			
Sample ID:	CCV							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	5.16µg/L	5.16µg/L	0.0543	0.2473	158.3455	0.0546	4.1670	17:22:21
QC value within specified limits.								
Mean:	5.16µg/L	5.16µg/L	0.0543					
SD:	0.000µg/L	0.000µg/L						
%RSD:								
Seq. No.	18	AS Loc:	1	Date:	4/27/12			
Sample ID:	CCB							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	-0.008µg/L	-0.008µg/L	-0.0000	0.0011	158.3491	0.0003	4.1671	17:24:08
QC value within specified limits.								
Mean:	-0.008µg/L	-0.008µg/L	-0.0000					
SD:	0.000µg/L	0.000µg/L						
%RSD:								
Seq. No.	19	AS Loc:	8	Date:	4/27/12			
Sample ID:	127971MB							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	-0.026µg/L	-0.026µg/L	-0.0002	-0.0030	158.3517	0.0001	4.1671	17:25:57
Mean:	-0.026µg/L	-0.026µg/L	-0.0002					
SD:	0.000µg/L	0.000µg/L						
%RSD:								
Seq. No.	20	AS Loc:	9	Date:	4/27/12			
Sample ID:	127972LCS							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	3.09µg/L	3.09µg/L	0.0325	0.1536	158.3571	0.0328	4.1673	17:27:45
Mean:	3.09µg/L	3.09µg/L	0.0325					
SD:	0.000µg/L	0.000µg/L						
%RSD:								
Seq. No.	21	AS Loc:	10	Date:	4/27/12			
Sample ID:	127973LCSD							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	3.07µg/L	3.07µg/L	0.0323	0.1519	158.3573	0.0326	4.1673	17:29:32
Mean:	3.07µg/L	3.07µg/L	0.0323					
SD:	0.000µg/L	0.000µg/L						
%RSD:								
Seq. No.	22	AS Loc:	11	Date:	4/27/12			
Sample ID:	350583501							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	0.509µg/L	0.509µg/L	0.0054	0.0291	158.3607	0.0057	4.1674	17:31:19
Mean:	0.509µg/L	0.509µg/L	0.0054					
SD:	0.000µg/L	0.000µg/L						
%RSD:								
Seq. No.	23	AS Loc:	12	Date:	4/27/12			
Sample ID:	350583507							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	3.29µg/L	3.29µg/L	0.0346	0.1653	158.3573	0.0349	4.1673	17:33:07

Mean: 3.29µg/L 3.29µg/L 0.0346
SD: 0.000µg/L 0.000µg/L
%RSD:

Seq. No. 24 **AS Loc:** 13 **Date:** 4/27/12
Sample ID: 350583508
Elem **SampleConc** **StndConc** **Blank Corr Signal** **Pk Area** **BG Area** **Pk Ht** **BG Ht** **Time**
Hg 3.28µg/L 3.28µg/L 0.0345 0.1650 158.3607 0.0348 4.1674 17:34:56
Mean: 3.28µg/L 3.28µg/L 0.0345
SD: 0.000µg/L 0.000µg/L
%RSD:

Seq. No. 25 **AS Loc:** 14 **Date:** 4/27/12
Sample ID: 350583502
Elem **SampleConc** **StndConc** **Blank Corr Signal** **Pk Area** **BG Area** **Pk Ht** **BG Ht** **Time**
Hg 0.477µg/L 0.477µg/L 0.0051 0.0246 158.3565 0.0054 4.1673 17:36:47
Mean: 0.477µg/L 0.477µg/L 0.0051
SD: 0.000µg/L 0.000µg/L
%RSD:

Seq. No. 26 **AS Loc:** 15 **Date:** 4/27/12
Sample ID: 350583503
Elem **SampleConc** **StndConc** **Blank Corr Signal** **Pk Area** **BG Area** **Pk Ht** **BG Ht** **Time**
Hg 0.563µg/L 0.563µg/L 0.0060 0.0276 158.3527 0.0063 4.1672 17:38:37
Mean: 0.563µg/L 0.563µg/L 0.0060
SD: 0.000µg/L 0.000µg/L
%RSD:

Seq. No. 27 **AS Loc:** 16 **Date:** 4/27/12
Sample ID: 350583504
Elem **SampleConc** **StndConc** **Blank Corr Signal** **Pk Area** **BG Area** **Pk Ht** **BG Ht** **Time**
Hg 0.739µg/L 0.739µg/L 0.0078 0.0370 158.3526 0.0081 4.1672 17:40:28
Mean: 0.739µg/L 0.739µg/L 0.0078
SD: 0.000µg/L 0.000µg/L
%RSD:

Seq. No. 28 **AS Loc:** 17 **Date:** 4/27/12
Sample ID: 350583505
Elem **SampleConc** **StndConc** **Blank Corr Signal** **Pk Area** **BG Area** **Pk Ht** **BG Ht** **Time**
Hg 4.79µg/L 4.79µg/L 0.0504 0.2332 158.3607 0.0507 4.1674 17:42:17
Mean: 4.79µg/L 4.79µg/L 0.0504
SD: 0.000µg/L 0.000µg/L
%RSD:

Seq. No. 29 **AS Loc:** 5 **Date:** 4/27/12
Sample ID: CCV
Elem **SampleConc** **StndConc** **Blank Corr Signal** **Pk Area** **BG Area** **Pk Ht** **BG Ht** **Time**
Hg 4.99µg/L 4.99µg/L 0.0525 0.2498 158.3689 0.0528 4.1676 17:44:04
 QC value within specified limits.
Mean: 4.99µg/L 4.99µg/L 0.0525
SD: 0.000µg/L 0.000µg/L
%RSD:

Seq. No.	AS Loc:	Date:						
30	1	4/27/12						
Sample ID:	CCB							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	-0.010µg/L	-0.010µg/L	-0.0001	0.0013	158.3721	0.0002	4.1677	17:45:51
QC value within specified limits.								
Mean:	-0.010µg/L	-0.010µg/L	-0.0001					
SD:	0.000µg/L	0.000µg/L						
%RSD:								
31	18	4/27/12						
Sample ID:	350583506							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	3.65µg/L	3.65µg/L	0.0384	0.1864	158.3652	0.0387	4.1675	17:47:39
Mean:	3.65µg/L	3.65µg/L	0.0384					
SD:	0.000µg/L	0.000µg/L						
%RSD:								
32	19	4/27/12						
Sample ID:	350580101							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	0.116µg/L	0.116µg/L	0.0013	0.0085	158.3645	0.0016	4.1675	17:49:25
Mean:	0.116µg/L	0.116µg/L	0.0013					
SD:	0.000µg/L	0.000µg/L						
%RSD:								
33	20	4/27/12						
Sample ID:	350580102							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	0.115µg/L	0.115µg/L	0.0013	0.0093	158.3605	0.0016	4.1674	17:51:11
Mean:	0.115µg/L	0.115µg/L	0.0013					
SD:	0.000µg/L	0.000µg/L						
%RSD:								
34	21	4/27/12						
Sample ID:	350580103							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	0.082µg/L	0.082µg/L	0.0009	0.0072	158.3455	0.0012	4.1670	17:52:58
Mean:	0.082µg/L	0.082µg/L	0.0009					
SD:	0.000µg/L	0.000µg/L						
%RSD:								
35	22	4/27/12						
Sample ID:	350581401							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	1.56µg/L	1.56µg/L	0.0164	0.0843	158.3297	0.0167	4.1666	17:54:44
Mean:	1.56µg/L	1.56µg/L	0.0164					
SD:	0.000µg/L	0.000µg/L						
%RSD:								
36	23	4/27/12						
Sample ID:	350581701							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	0.606µg/L	0.606µg/L	0.0064	0.0382	158.3179	0.0067	4.1663	17:56:31

Mean: 0.606µg/L 0.606µg/L 0.0064
SD: 0.000µg/L 0.000µg/L
%RSD:

Seq. No.	37	AS Loc:	24	Date:	4/27/12			
Sample ID:	350581702							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	-0.004µg/L	-0.004µg/L	0.0000	0.0024	158.3133	0.0003	4.1661	17:58:19
Mean:	-0.004µg/L	-0.004µg/L	0.0000					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	38	AS Loc:	25	Date:	4/27/12			
Sample ID:	350581703							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	0.294µg/L	0.294µg/L	0.0031	0.0148	158.3135	0.0034	4.1661	18:00:07
Mean:	0.294µg/L	0.294µg/L	0.0031					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	39	AS Loc:	26	Date:	4/27/12			
Sample ID:	350583501L							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	0.084µg/L	0.084µg/L	0.0009	0.0058	158.3141	0.0012	4.1662	18:01:56
Mean:	0.084µg/L	0.084µg/L	0.0009					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	40	AS Loc:	27	Date:	4/27/12			
Sample ID:	350583501A							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	3.10µg/L	3.10µg/L	0.0326	0.1637	158.3063	0.0329	4.1660	18:03:46
Mean:	3.10µg/L	3.10µg/L	0.0326					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	41	AS Loc:	5	Date:	4/27/12			
Sample ID:	CCV							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	4.76µg/L	4.76µg/L	0.0500	0.2490	158.2984	0.0503	4.1657	18:05:35
QC value within specified limits.								
Mean:	4.76µg/L	4.76µg/L	0.0500					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	42	AS Loc:	1	Date:	4/27/12			
Sample ID:	CCB							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	0.002µg/L	0.002µg/L	0.0001	0.0029	158.2866	0.0004	4.1654	18:07:23
QC value within specified limits.								
Mean:	0.002µg/L	0.002µg/L	0.0001					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	Date:						
43	28	4/27/12						
Sample ID:	127984MB							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	-0.015µg/L	-0.015µg/L	-0.0001	0.0029	158.2646	0.0002	4.1649	18:09:10
Mean:	-0.015µg/L	-0.015µg/L	-0.0001					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	Date:						
44	29	4/27/12						
Sample ID:	127985LCS							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	2.62µg/L	2.62µg/L	0.0276	0.1426	158.2561	0.0278	4.1646	18:11:00
Mean:	2.62µg/L	2.62µg/L	0.0276					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	Date:						
45	30	4/27/12						
Sample ID:	127986LCSD							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	2.92µg/L	2.92µg/L	0.0308	0.1531	158.2414	0.0311	4.1643	18:12:51
Mean:	2.92µg/L	2.92µg/L	0.0308					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	Date:						
46	31	4/27/12						
Sample ID:	350584301							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	0.126µg/L	0.126µg/L	0.0014	0.0086	158.2287	0.0017	4.1639	18:14:43
Mean:	0.126µg/L	0.126µg/L	0.0014					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	Date:						
47	32	4/27/12						
Sample ID:	350584302							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	3.03µg/L	3.03µg/L	0.0319	0.1599	158.2253	0.0322	4.1638	18:16:31
Mean:	3.03µg/L	3.03µg/L	0.0319					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	Date:						
48	33	4/27/12						
Sample ID:	350584303							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	2.86µg/L	2.86µg/L	0.0301	0.1555	158.2021	0.0304	4.1632	18:18:15
Mean:	2.86µg/L	2.86µg/L	0.0301					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	Date:						
49	34	4/27/12						
Sample ID:	350584304							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	0.187µg/L	0.187µg/L	0.0020	0.0133	158.1799	0.0023	4.1627	18:20:00
Mean:	0.187µg/L	0.187µg/L	0.0020					
SD:	0.000µg/L	0.000µg/L						

%RSD:

Seq. No.	AS Loc:	Date:						
50	35	4/27/12						
Sample ID:	350584305							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	0.610µg/L	0.610µg/L	0.0065	0.0376	158.1567	0.0068	4.1621	18:21:45
Mean:	0.610µg/L	0.610µg/L	0.0065					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	Date:						
51	36	4/27/12						
Sample ID:	350584306							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	0.133µg/L	0.133µg/L	0.0014	0.0136	158.1288	0.0017	4.1613	18:23:31
Mean:	0.133µg/L	0.133µg/L	0.0014					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	Date:						
52	37	4/27/12						
Sample ID:	350584307							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	0.232µg/L	0.232µg/L	0.0025	0.0202	158.0987	0.0028	4.1605	18:25:16
Mean:	0.232µg/L	0.232µg/L	0.0025					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	Date:						
53	5	4/27/12						
Sample ID:	CCV							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	4.91µg/L	4.91µg/L	0.0517	0.2755	158.0616	0.0520	4.1595	18:27:03
QC value within specified limits.								
Mean:	4.91µg/L	4.91µg/L	0.0517					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	Date:						
54	1	4/27/12						
Sample ID:	CCB							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	0.027µg/L	0.027µg/L	0.0003	0.0132	158.0119	0.0006	4.1582	18:28:51
QC value within specified limits.								
Mean:	0.027µg/L	0.027µg/L	0.0003					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	Date:						
55	38	4/27/12						
Sample ID:	350584308							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	0.253µg/L	0.253µg/L	0.0027	0.0251	157.9192	0.0030	4.1558	18:30:37
Mean:	0.253µg/L	0.253µg/L	0.0027					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	39		Date:	4/27/12			
Sample ID:	350584309							
Elem	SampleConc	StdConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	2.42µg/L	2.42µg/L	0.0255	0.1427	157.8900	0.0258	4.1550	18:32:22
Mean:	2.42µg/L	2.42µg/L	0.0255					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	40		Date:	4/27/12			
Sample ID:	350584310							
Elem	SampleConc	StdConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	0.199µg/L	0.199µg/L	0.0021	0.0137	157.8781	0.0024	4.1547	18:34:10
Mean:	0.199µg/L	0.199µg/L	0.0021					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	41		Date:	4/27/12			
Sample ID:	350584311							
Elem	SampleConc	StdConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	0.231µg/L	0.231µg/L	0.0025	0.0149	157.8737	0.0028	4.1546	18:35:58
Mean:	0.231µg/L	0.231µg/L	0.0025					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	42		Date:	4/27/12			
Sample ID:	350584312							
Elem	SampleConc	StdConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	0.248µg/L	0.248µg/L	0.0027	0.0165	157.8819	0.0030	4.1548	18:37:46
Mean:	0.248µg/L	0.248µg/L	0.0027					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	43		Date:	4/27/12			
Sample ID:	350584301L							
Elem	SampleConc	StdConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	0.007µg/L	0.007µg/L	0.0001	0.0029	157.8810	0.0004	4.1548	18:39:35
Mean:	0.007µg/L	0.007µg/L	0.0001					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	44		Date:	4/27/12			
Sample ID:	350584301A							
Elem	SampleConc	StdConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	2.98µg/L	2.98µg/L	0.0313	0.1691	157.8771	0.0316	4.1546	18:41:25
Mean:	2.98µg/L	2.98µg/L	0.0313					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	45		Date:	4/27/12			
Sample ID:	127997MB							
Elem	SampleConc	StdConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	-0.017µg/L	-0.017µg/L	-0.0001	0.0020	157.8665	0.0002	4.1544	18:43:15
Mean:	-0.017µg/L	-0.017µg/L	-0.0001					
SD:	0.000µg/L	0.000µg/L						

%RSD:

Seq. No.	AS Loc:	Date:						
63	46	4/27/12						
Sample ID:	127998LCS							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	2.90µg/L	2.90µg/L	0.0306	0.1744	157.8621	0.0309	4.1543	18:45:06
Mean:	2.90µg/L	2.90µg/L	0.0306					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	Date:						
64	47	4/27/12						
Sample ID:	127999LCSD							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	2.97µg/L	2.97µg/L	0.0313	0.1732	157.8550	0.0316	4.1541	18:46:57
Mean:	2.97µg/L	2.97µg/L	0.0313					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	Date:						
65	5	4/27/12						
Sample ID:	CCV							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	4.66µg/L	4.66µg/L	0.0491	0.2765	157.8530	0.0494	4.1540	18:48:47
QC value within specified limits.								
Mean:	4.66µg/L	4.66µg/L	0.0491					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	Date:						
66	1	4/27/12						
Sample ID:	CCB							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	-0.006µg/L	-0.006µg/L	-0.0000	0.0029	157.8531	0.0003	4.1540	18:50:35
QC value within specified limits.								
Mean:	-0.006µg/L	-0.006µg/L	-0.0000					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	Date:						
67	48	4/27/12						
Sample ID:	350586403							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	0.277µg/L	0.277µg/L	0.0030	0.0170	157.8529	0.0033	4.1540	18:52:20
Mean:	0.277µg/L	0.277µg/L	0.0030					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

Seq. No.	AS Loc:	Date:						
68	49	4/27/12						
Sample ID:	128000MS							
Elem	SampleConc	StndConc	Blank Corr Signal	Pk Area	BG Area	Pk Ht	BG Ht	Time
Hg	3.56µg/L	3.56µg/L	0.0375	0.1916	157.8552	0.0377	4.1541	18:54:04
Mean:	3.56µg/L	3.56µg/L	0.0375					
SD:	0.000µg/L	0.000µg/L						
%RSD:								

STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
39044	Mercury_CAL_STK	High Purity	1030115	7/4/2012	125 mL	1/6/2011	ggalvis

1000 UG/ML: Mercury

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
39045	Mercury_ICV_STK	CPI international	091049	7/5/2012	125 ml	1/12/2011	ggalvis

1000 UG/ML: Mercury

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45139	HNO3	fisher	1111101	11/30/2014	2.5 L	12/11/2011	ddthompson

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45797	Mercury_Low_Working			7/4/2012	10 ML	4/11/2012	jbowman

100 UG/L: Mercury

COMPOSED OF:

45139: 1 ML 45798: 1 ML

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45798	Mercury_High_Working			7/4/2012	100 ML	4/11/2012	jbowman

1000 UG/L: Mercury

COMPOSED OF:

39044: 0.1 ML 45139: 0.1 ML

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45799	Mercury_ICV_Working			7/4/2012	100 ML	4/11/2012	jbowman

1000 UG/L: Mercury

3505843

3415

STANDARDS LOG

COMPOSED OF:

39045: 0.1 ML 45139: 0.1 ML

3505843

3416

Raw Data Inorganics/Metals

Spectrum Analytical, Inc. Florida Division

Prepared by: JB
 Balance ID: NA
 Filter Lot: NA
 LCS/MS/SD Spike amount: .05 mL Each
 Water Bath Temperature: 95 °C
 Dig Tube: 1202052

Date Prepared: 04/26/12
 Majors Spike: MET# NA
 Minors Spike: MET# 452
 Pipette(s) Used for spikes: PG
 Thermometer ID: 289366
 Glass Beads: NA

Reagents: PM#
 HNO₃ 45139
 HCl NA
 H₂O₂ 44559

Method
 (Circle one)

Water: 3010A = ICP
 3005A = ICP
 3020A Mod = Furnace
 3020A Sb Mod = Furnace

Soil: 3050B = ICP or Furnace
 ILMO5.2 = CLP

PREP ID # 042612B

Start Time: 16:38 Stop Time: 9:46

Container #	Sample ID	ID	Initial Weight (g) or Volume (mL) 3 SigFig	Final volume (mL)	Comment or Notification:
	Blk 042612B	BLK	50	50.0 mL	7841, 7010 As, 7010 Pb 7010 As Pilot Batch #: 9232
	LCS	LCS	↓	↓	Pilot# 127846
	LCSD	LCSD	↓	↓	Pilot# 47
1	4 3505805 05				As + Pb IV 5/7 Pilot# 48
1	↓	MS	↓	↓	Pilot# 50
1	↓	SD	↓	↓	Pilot# 51
2	↓		↓	↓	
3	1 3505843 13				IV 5/9 7010 Pb Pilot Batch #: 9233
4	↓	MS	↓	↓	MB Pilot #: 127857
5	↓	SD	↓	↓	LCS Pilot #: 58
6	↓		↓	↓	LCSD Pilot #: 59
7					MS Pilot #: 60
8					MSD Pilot #: 61
9					
10					7841 Pilot Batch #: 9234
11					MB Pilot #: 127862
12					LCS Pilot #: 63
13					LCSD Pilot #: 64
14					MS Pilot #: 65
15					MSD Pilot #: 66
16					
17					
18					
19					
20					

4/26/12
JB

Method Loaded

Method Name: TL-012104short run

Method Last Saved: 3/12/2009 9:38:31 AM

Method Description: Thallium-short run

Sequence No.: 1

Autosampler Location: 1

Sample ID: Calib Blank

Date Collected: 5/2/2012 3:59:43 PM

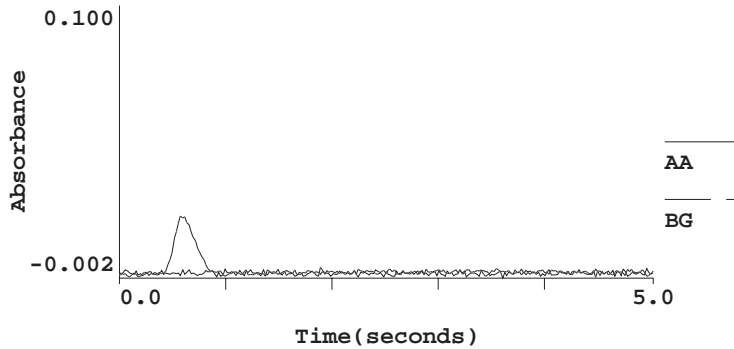
Analyst:

Data Type: Original

uL dispensed: 5 from 7, 20 from 1

Replicate Data: Calib Blank

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1		[0.00]	0.0013	0.0013	0.0022	0.0071	0.0228	16:00:20	Yes
2		[0.00]	0.0008	0.0008	0.0019	0.0066	0.0213	16:03:12	Yes



Mean: [0.00] 0.0010
 SD: 0.00 0.0003
 %RSD: 0.00 32.46
 Auto-zero performed.

Sequence No.: 2

Autosampler Location: 2

Sample ID: 1ppb

Date Collected: 5/2/2012 4:05:15 PM

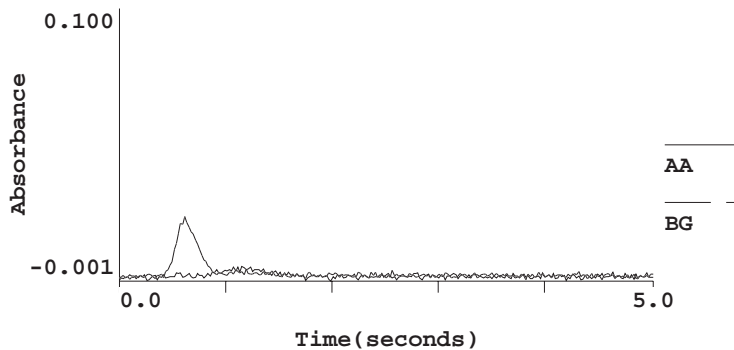
Analyst:

Data Type: Original

uL dispensed: 5 from 7, 20 from 2

Replicate Data: 1ppb

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1		[1]	0.0018	0.0028	0.0038	0.0072	0.0215	16:06:04	Yes
2		[1]	0.0015	0.0025	0.0038	0.0077	0.0224	16:08:56	Yes



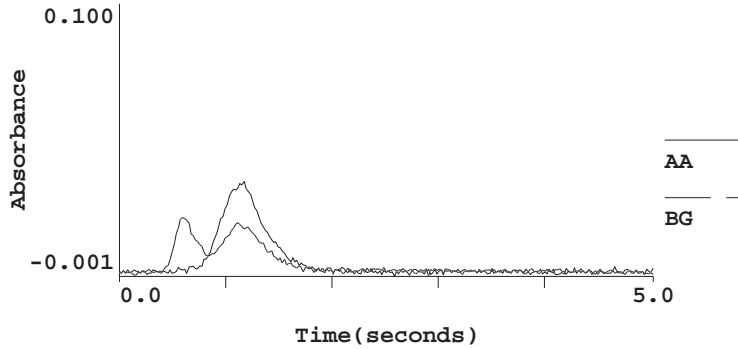
Mean: [1] 0.0017
 SD: 0 0.0002
 %RSD: 0 12.30
 Standard number 1 applied. [1]
 Correlation Coef.: 1.000000 Slope: 0.00166 Intercept: 0.00000

Sequence No.: 3
Sample ID: 10ppb
Analyst:
uL dispensed: 5 from 7, 20 from 3

Autosampler Location: 3
Date Collected: 5/2/2012 4:10:59 PM
Data Type: Original

Replicate Data: 10ppb

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1		[10]	0.0160	0.0170	0.0326	0.0149	0.0196	16:11:49	Yes
2		[10]	0.0163	0.0173	0.0336	0.0148	0.0204	16:14:41	Yes



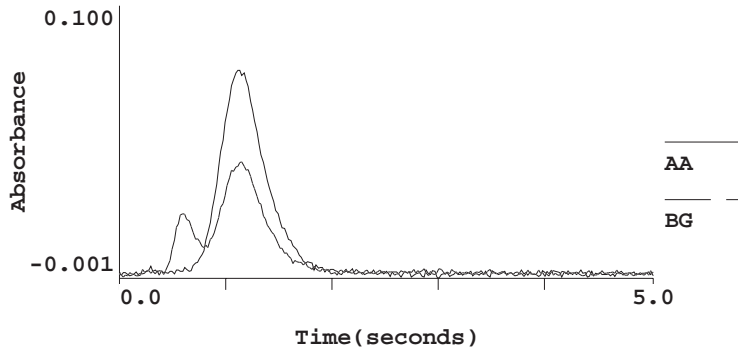
Mean: [10] 0.0161
SD: 0 0.0002
%RSD: 0 1.48
Standard number 2 applied. [10]
Correlation Coef.: 0.999991 Slope: 0.00161 Intercept: 0.00000

Sequence No.: 4
Sample ID: 25ppb
Analyst:
uL dispensed: 5 from 7, 20 from 4

Autosampler Location: 4
Date Collected: 5/2/2012 4:16:44 PM
Data Type: Original

Replicate Data: 25ppb

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1		[25]	0.0384	0.0395	0.0780	0.0288	0.0419	16:17:34	Yes
2		[25]	0.0381	0.0392	0.0759	0.0274	0.0417	16:20:26	Yes



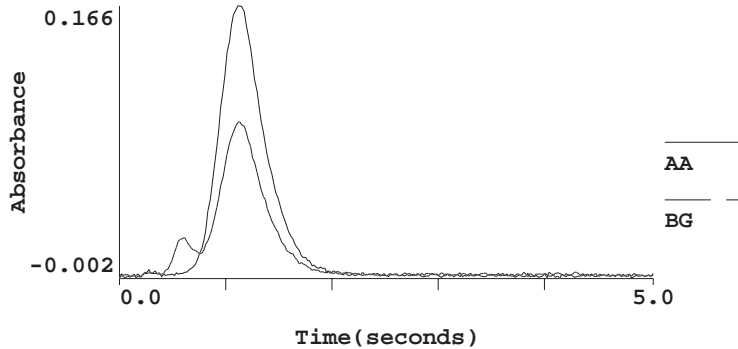
Mean: [25] 0.0383
SD: 0 0.0002
%RSD: 0 0.58
Standard number 3 applied. [25]
Correlation Coef.: 0.999585 Slope: 0.00154 Intercept: 0.00000

Sequence No.: 5
Sample ID: 50ppb
Analyst:
uL dispensed: 5 from 7, 20 from 5

Autosampler Location: 5
Date Collected: 5/2/2012 4:22:29 PM
Data Type: Original

Replicate Data: 50ppb

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1		[50]	0.0795	0.0805	0.1569	0.0516	0.0880	16:23:19	Yes
2		[50]	0.0832	0.0842	0.1657	0.0530	0.0946	16:26:12	Yes



Mean: [50] 0.0813
 SD: 0 0.0026
 %RSD: 0 3.17
 Standard number 4 applied. [50]
 Correlation Coef.: 0.999360 Slope: 0.00161 Intercept: 0.00000

Calibration data for Tl 276.8

Equation: Linear Through Zero

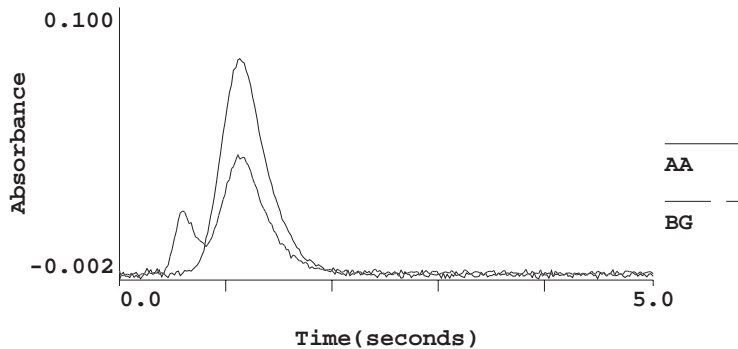
ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
Calib Blank	0.0000	0	0.00	0.00	32.5
1ppb	0.0017	1.0	1.03	0.00	12.3
10ppb	0.0161	10.0	10.02	0.00	1.5
25ppb	0.0383	25.0	23.80	0.00	0.6
50ppb	0.0813	50.0	50.56	0.00	3.2

Correlation Coef.: 0.999360 Slope: 0.00161 Intercept: 0.00000

Sequence No.: 6 Autosampler Location: 6
 Sample ID: ICV Date Collected: 5/2/2012 4:28:15 PM
 Analyst: Data Type: Original
 uL dispensed: 5 from 7, 20 from 6

Replicate Data: ICV

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.6	25.6	0.0412	0.0422	0.0822	0.0307	0.0446	16:29:04	Yes
2	25.4	25.4	0.0408	0.0418	0.0808	0.0308	0.0449	16:31:56	Yes



Mean: 25.5 25.5 0.0410
 SD: 0.17 0.17 0.0003
 %RSD: 0.68 0.68 0.68
 QC value within limits for Tl 276.8 Recovery = 101.92%

All analyte(s) passed QC.

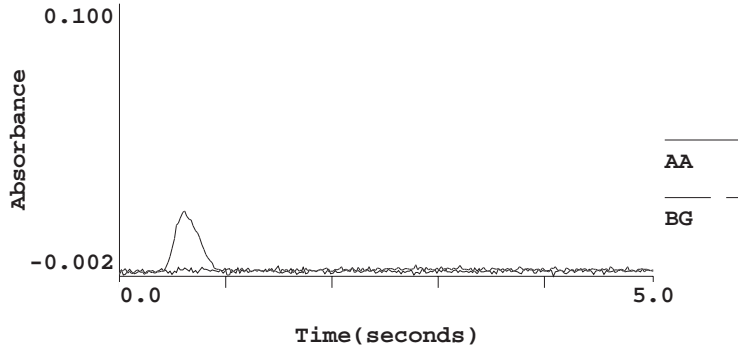
```

=====
Sequence No.: 7                               Autosampler Location: 1
Sample ID: ICB                               Date Collected: 5/2/2012 4:33:59 PM
Analyst:                                     Data Type: Original
uL dispensed: 5 from 7, 20 from 1
=====

```

Replicate Data: ICB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.42	-0.42	-0.0007	0.0004	0.0018	0.0077	0.0202	16:34:49	Yes
2	-0.08	-0.08	-0.0001	0.0009	0.0021	0.0083	0.0225	16:37:41	Yes



```

Mean:  -0.25      -0.25      -0.0004
SD:    0.24       0.24       0.0004
%RSD:  96.3      96.3      96.35
QC value within limits for Tl 276.8  Recovery = Not calculated
All analyte(s) passed QC.
=====

```

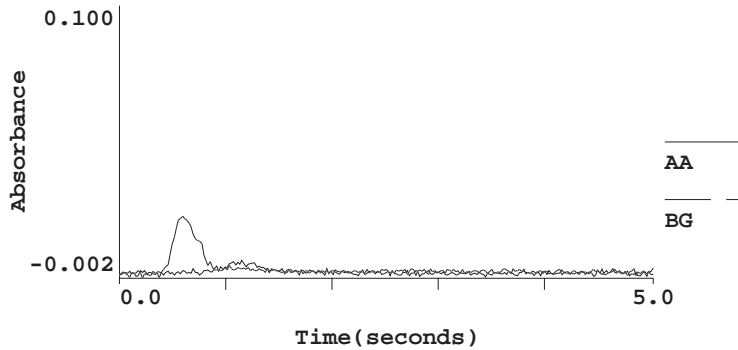
```

=====
Sequence No.: 8                               Autosampler Location: 2
Sample ID: CRA                               Date Collected: 5/2/2012 4:39:44 PM
Analyst:                                     Data Type: Original
uL dispensed: 5 from 7, 20 from 2
=====

```

Replicate Data: CRA

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.63	0.63	0.0010	0.0020	0.0042	0.0083	0.0209	16:40:34	Yes
2	1.10	1.10	0.0018	0.0028	0.0049	0.0087	0.0214	16:43:26	Yes



```

Mean:  0.86      0.86      0.0014
SD:    0.33       0.33      0.0005
%RSD:  37.9      37.9      37.93
QC value within limits for Tl 276.8  Recovery = 86.36%
All analyte(s) passed QC.
=====

```

```

=====
Sequence No.: 9                               Autosampler Location: 4
Sample ID: CCV                               Date Collected: 5/2/2012 4:45:29 PM
=====

```

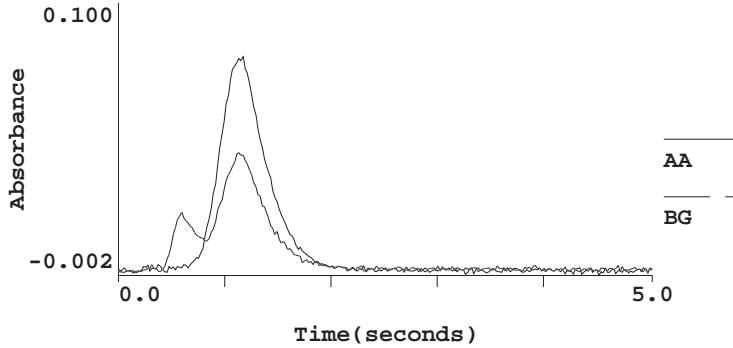

Analyst:

Data Type: Original

uL dispensed: 5 from 7, 20 from 4

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.3	25.3	0.0407	0.0418	0.0803	0.0286	0.0435	16:46:19	Yes
2	25.2	25.2	0.0405	0.0415	0.0798	0.0293	0.0440	16:49:12	Yes



Mean: 25.3 25.3 0.0406
SD: 0.10 0.10 0.0002
%RSD: 0.40 0.40 0.40

QC value within limits for Tl 276.8 Recovery = 101.03%
All analyte(s) passed QC.

Sequence No.: 10

Autosampler Location: 1

Sample ID: CCB

Date Collected: 5/2/2012 4:51:15 PM

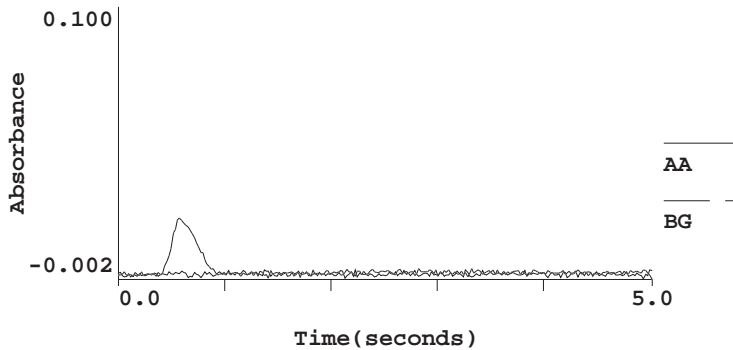
Analyst:

Data Type: Original

uL dispensed: 5 from 7, 20 from 1

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.18	-0.18	-0.0003	0.0007	0.0016	0.0082	0.0219	16:52:04	Yes
2	-0.21	-0.21	-0.0003	0.0007	0.0018	0.0080	0.0211	16:54:56	Yes



Mean: -0.20 -0.20 -0.0003
SD: 0.02 0.02 0.0000
%RSD: 10.9 10.9 10.87

QC value within limits for Tl 276.8 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 11

Autosampler Location: 11

Sample ID: 127862MB

Date Collected: 5/2/2012 4:56:59 PM

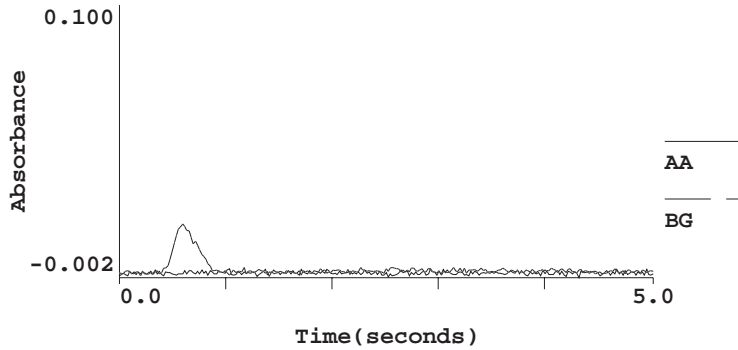
Analyst:

Data Type: Original

uL dispensed: 5 from 7, 20 from 11

Replicate Data: 127862MB

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.08	0.08	0.0001	0.0012	0.0024	0.0054	0.0171	16:57:49	Yes
2	-0.55	-0.55	-0.0009	0.0001	0.0017	0.0073	0.0183	17:00:42	Yes

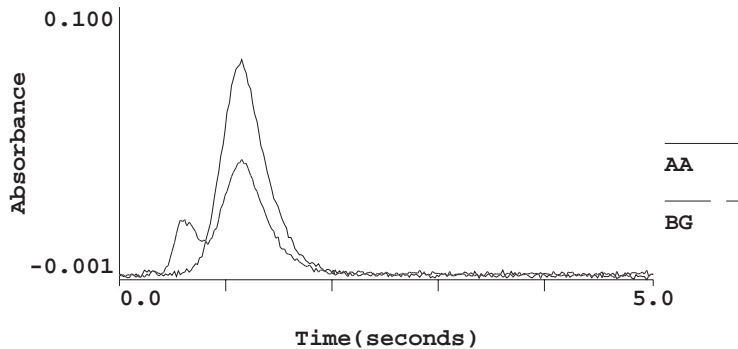


Mean: -0.23 -0.23 -0.0004
 SD: 0.45 0.45 0.0007
 %RSD: 191 191 190.98

Sequence No.: 12 Autosampler Location: 12
 Sample ID: 127863LCS Date Collected: 5/2/2012 5:02:45 PM
 Analyst: Data Type: Original
 uL dispensed: 5 from 7, 20 from 12

Replicate Data: 127863LCS

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.9	24.9	0.0400	0.0410	0.0774	0.0286	0.0413	17:03:34	Yes
2	24.9	24.9	0.0401	0.0411	0.0803	0.0288	0.0432	17:06:27	Yes

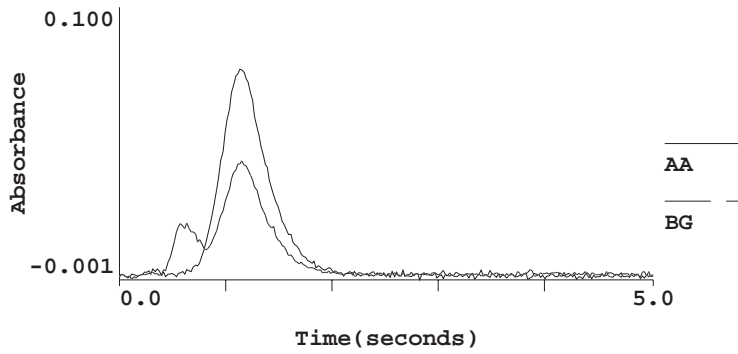


Mean: 24.9 24.9 0.0400
 SD: 0.04 0.04 0.0001
 %RSD: 0.16 0.16 0.16

Sequence No.: 13 Autosampler Location: 13
 Sample ID: 127864LCS Date Collected: 5/2/2012 5:08:30 PM
 Analyst: Data Type: Original
 uL dispensed: 5 from 7, 20 from 13

Replicate Data: 127864LCS

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.4	24.4	0.0392	0.0402	0.0767	0.0280	0.0411	17:09:19	Yes
2	24.7	24.7	0.0397	0.0407	0.0768	0.0285	0.0429	17:12:12	Yes



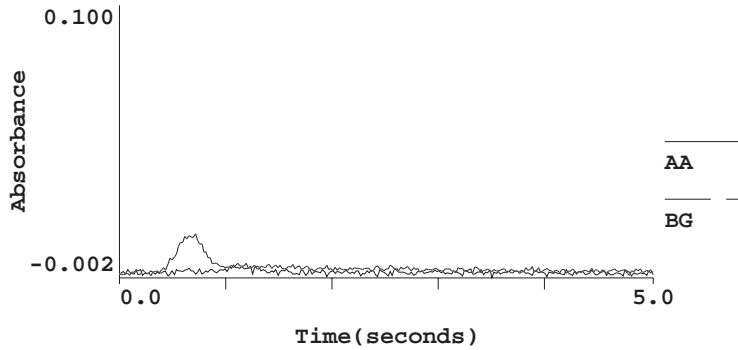
Mean: 24.5 24.5 0.0394
 SD: 0.21 0.21 0.0003
 %RSD: 0.87 0.87 0.87

=====

Sequence No.: 14	Autosampler Location: 22
Sample ID: 350584313	Date Collected: 5/2/2012 5:14:15 PM
Analyst:	Data Type: Original
uL dispensed: 5 from 7, 20 from 22	

Replicate Data: 350584313

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.47	0.47	0.0008	0.0018	0.0029	0.0110	0.0151	17:15:04	Yes
2	0.54	0.54	0.0009	0.0019	0.0031	0.0101	0.0146	17:17:57	Yes



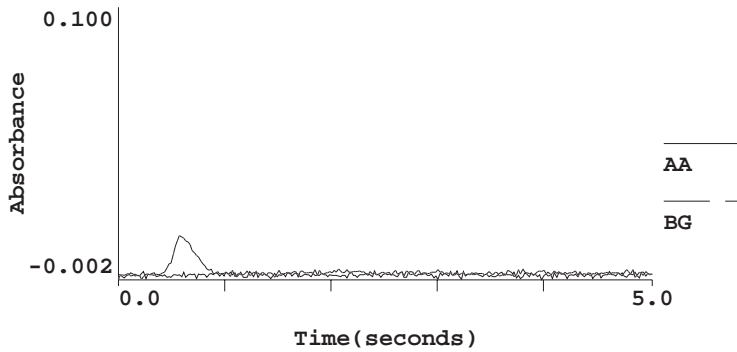
Mean: 0.51 0.51 0.0008
 SD: 0.05 0.05 0.0001
 %RSD: 10.4 10.4 10.43

=====

Sequence No.: 15	Autosampler Location: 23
Sample ID: 350584313L	Date Collected: 5/2/2012 5:20:00 PM
Analyst:	Data Type: Original
uL dispensed: 5 from 7, 20 from 23	

Replicate Data: 350584313L

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.59	0.12	0.0002	0.0012	0.0016	0.0068	0.0165	17:20:49	Yes
2	-2.40	-0.48	-0.0008	0.0003	0.0016	0.0064	0.0146	17:23:42	Yes



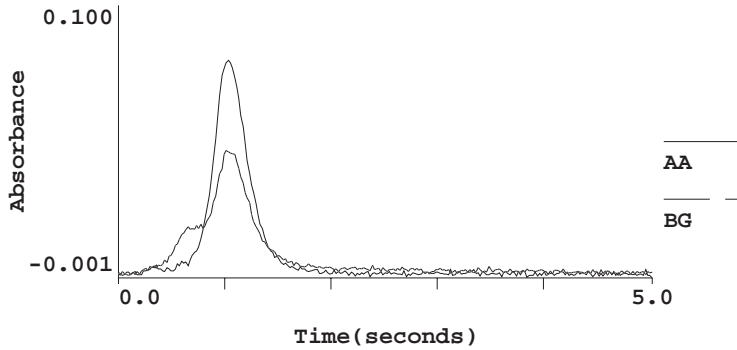
Mean: -0.91 -0.18 -0.0003
 SD: 2.12 0.42 0.0007
 %RSD: 233 233 233.23

=====

Sequence No.: 16	Autosampler Location: 24
Sample ID: 127865MS	Date Collected: 5/2/2012 5:25:45 PM
Analyst:	Data Type: Original
uL dispensed: 5 from 7, 20 from 24	

Replicate Data: 127865MS

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	17.1	17.1	0.0275	0.0285	0.0641	0.0242	0.0365	17:26:34	Yes
2	19.7	19.7	0.0317	0.0327	0.0794	0.0291	0.0460	17:29:27	Yes



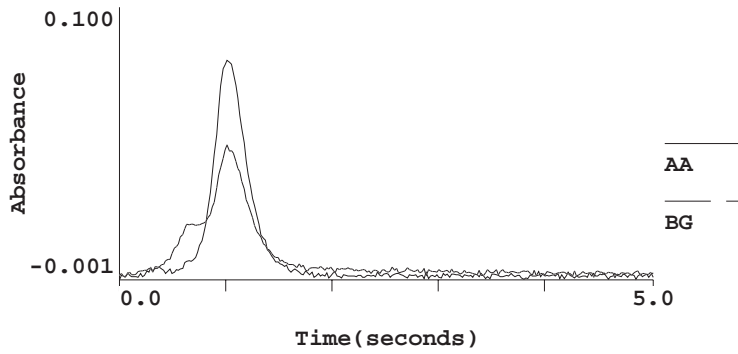
Mean: 18.4 18.4 0.0296
 SD: 1.84 1.84 0.0030
 %RSD: 10.0 10.0 10.02

=====

Sequence No.: 17	Autosampler Location: 25
Sample ID: 127866MSD	Date Collected: 5/2/2012 5:31:30 PM
Analyst:	Data Type: Original
uL dispensed: 5 from 7, 20 from 25	

Replicate Data: 127866MSD

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	19.2	19.2	0.0309	0.0319	0.0759	0.0292	0.0453	17:32:19	Yes
2	18.7	18.7	0.0301	0.0312	0.0801	0.0306	0.0487	17:35:12	Yes



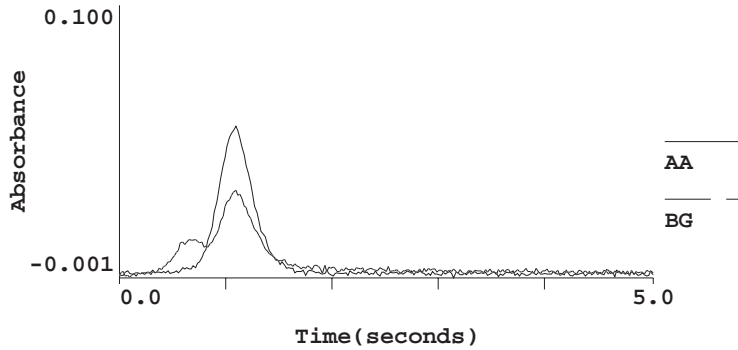
Mean: 19.0 19.0 0.0305
 SD: 0.34 0.34 0.0005
 %RSD: 1.77 1.77 1.77

=====

Sequence No.: 18	Autosampler Location: 26
Sample ID: 350584313A	Date Collected: 5/2/2012 5:37:15 PM
Analyst:	Data Type: Original
uL dispensed: 5 from 7, 20 from 26	

Replicate Data: 350584313A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	14.0	14.0	0.0225	0.0235	0.0572	0.0216	0.0322	17:38:05	Yes
2	13.2	13.2	0.0212	0.0222	0.0548	0.0206	0.0310	17:40:58	Yes



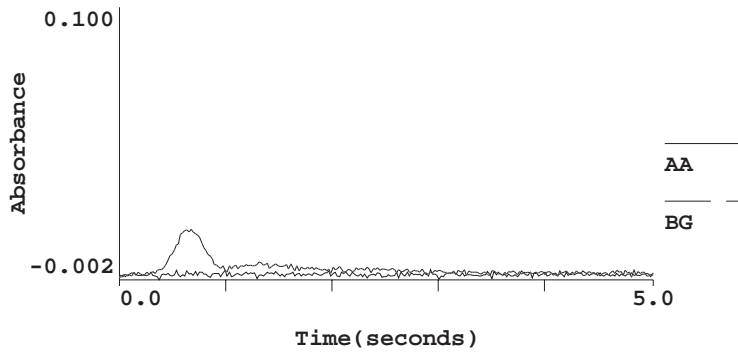
Mean: 13.6 13.6 0.0218
 SD: 0.57 0.57 0.0009
 %RSD: 4.17 4.17 4.17

=====

Sequence No.: 19	Autosampler Location: 27
Sample ID: 350584314	Date Collected: 5/2/2012 5:43:00 PM
Analyst:	Data Type: Original
uL dispensed: 5 from 7, 20 from 27	

Replicate Data: 350584314

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.33	0.33	0.0005	0.0016	0.0021	0.0104	0.0131	17:43:50	Yes
2	0.04	0.04	0.0001	0.0011	0.0021	0.0122	0.0171	17:46:42	Yes



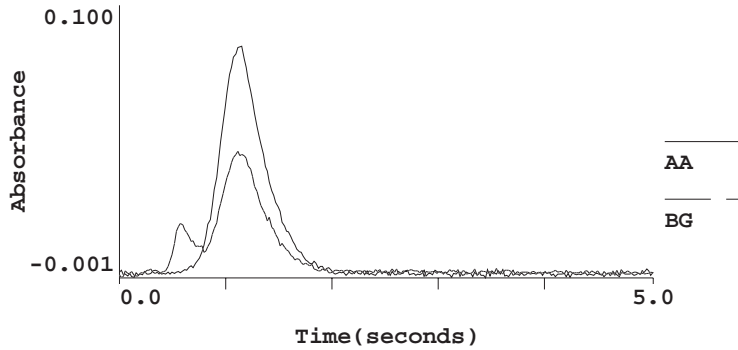
Mean: 0.19 0.19 0.0003
 SD: 0.21 0.21 0.0003
 %RSD: 109 109 108.79

=====

Sequence No.: 20	Autosampler Location: 4
Sample ID: CCV	Date Collected: 5/2/2012 5:48:45 PM
Analyst:	Data Type: Original
uL dispensed: 5 from 7, 20 from 4	

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Bkgnd	Bkgnd	Time	Peak
#	ug/L	ug/L	Signal	Area	Height	Area	Height		Stored
1	26.2	26.2	0.0421	0.0431	0.0870	0.0293	0.0468	17:49:35	Yes
2	25.9	25.9	0.0416	0.0426	0.0847	0.0293	0.0458	17:52:27	Yes



Mean: 26.0 26.0 0.0418
 SD: 0.22 0.22 0.0003
 %RSD: 0.83 0.83 0.83

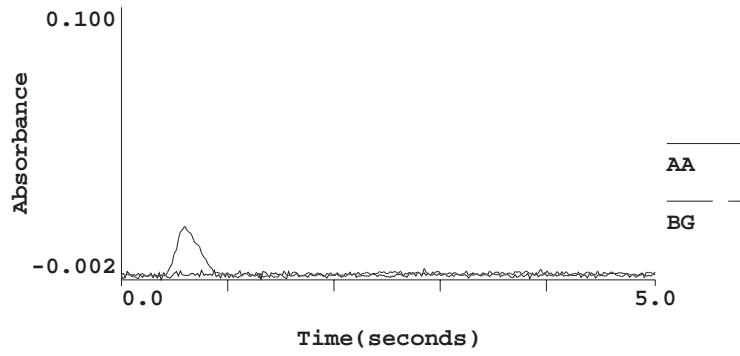
QC value within limits for Tl 276.8 Recovery = 104.01%
 All analyte(s) passed QC.

=====

Sequence No.: 21	Autosampler Location: 1
Sample ID: CCB	Date Collected: 5/2/2012 5:54:30 PM
Analyst:	Data Type: Original
uL dispensed: 5 from 7, 20 from 1	

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Bkgnd	Bkgnd	Time	Peak
#	ug/L	ug/L	Signal	Area	Height	Area	Height		Stored
1	0.12	0.12	0.0002	0.0012	0.0025	0.0068	0.0180	17:55:20	Yes
2	0.02	0.02	0.0000	0.0011	0.0019	0.0065	0.0183	17:58:12	Yes



Mean: 0.07 0.07 0.0001
SD: 0.07 0.07 0.0001
%RSD: 104 104 104.35
QC value within limits for T1 276.8 Recovery = Not calculated
All analyte(s) passed QC.

STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
39044	Mercury_CAL_STK	High Purity	1030115	7/4/2012	125 mL	1/6/2011	ggalvis

1000 UG/ML: Mercury

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
39045	Mercury_ICV_STK	CPI international	091049	7/5/2012	125 ml	1/12/2011	ggalvis

1000 UG/ML: Mercury

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45139	HNO3	fisher	1111101	11/30/2014	2.5 L	12/11/2011	ddthompson

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45797	Mercury_Low_Working			7/4/2012	10 ML	4/11/2012	jbowman

100 UG/L: Mercury

COMPOSED OF:

45139: 1 ML 45798: 1 ML

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45798	Mercury_High_Working			7/4/2012	100 ML	4/11/2012	jbowman

1000 UG/L: Mercury

COMPOSED OF:

39044: 0.1 ML 45139: 0.1 ML

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45799	Mercury_ICV_Working			7/4/2012	100 ML	4/11/2012	jbowman

1000 UG/L: Mercury

3505843

3430

STANDARDS LOG

COMPOSED OF:

39045: 0.1 ML 45139: 0.1 ML

3505843

3431

Raw Data Inorganics/Wet Chemistry

Instr. Information

System TOC w/ SSM
 Instrument Options TOC/SSM/
 Catalyst Regular Sensitivity

Cal. Curve

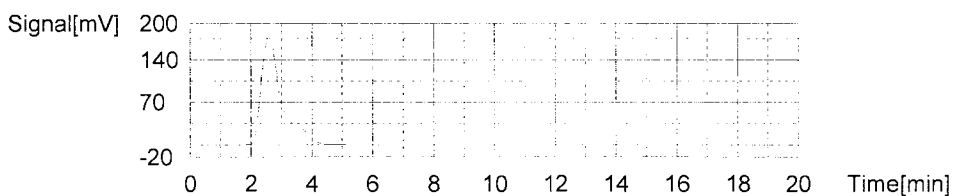
Sample Name: 5mg Sucrose
 Sample ID: 5mg Sucrose by 415.1-9060MOD-SM5310MOD-IS# # 44240
 Cal. Curve: 5mg Sucrose.2012_01_30_11_34_10.cal
 Status Completed

Type	Anal.
Standard	SSM-TC

AbsC: 5000ug

No.	Area	CNV	Abs C	Weight	Rem.	Ex.	Date / Time
1	833.9	833.9	5000ug	11.90mg	*****		1/30/2012 11:46:12 AM

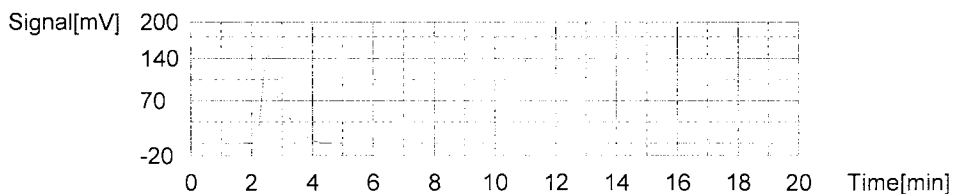
Mean Area 833.9
 Mean CNV 833.9



AbsC: 4000ug

No.	Area	CNV	Abs C	Weight	Rem.	Ex.	Date / Time
1	644.9	644.9	4000ug	9.500mg	*****		1/30/2012 11:53:59 AM

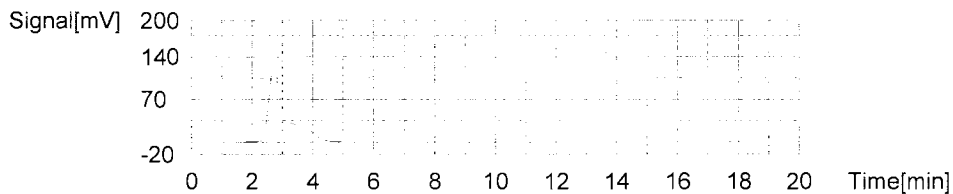
Mean Area 644.9
 Mean CNV 644.9



AbsC: 3000ug

No.	Area	CNV	Abs C	Weight	Rem.	Ex.	Date / Time
1	494.7	494.7	3000ug	7.100mg	*****		1/30/2012 12:01:33 PM

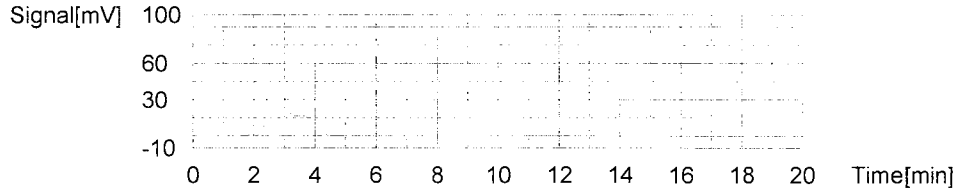
Mean Area 494.7
 Mean CNV 494.7



AbsC: 2000ug

No.	Area	CNV	Abs C	Weight	Rem.	Ex.	Date / Time
1	335.0	335.0	2000ug	4.800mg	*****		1/30/2012 12:08:56 PM

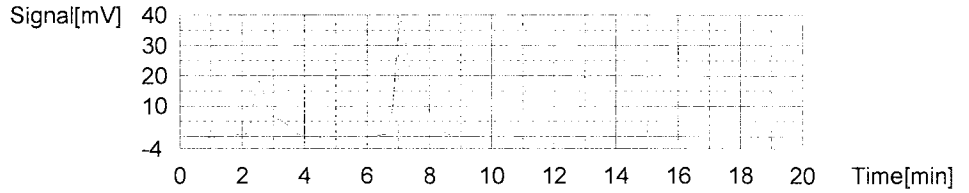
Mean Area 335.0
Mean CNV 335.0



AbsC: 1000ug

No.	Area	CNV	Abs C	Weight	Rem.	Ex.	Date / Time
1	76.98	76.98	1000ug	2.400mg	*****	E	1/30/2012 12:17:51 PM
2	163.7	163.7	1000ug	2.400mg	*****		1/30/2012 1:03:43 PM

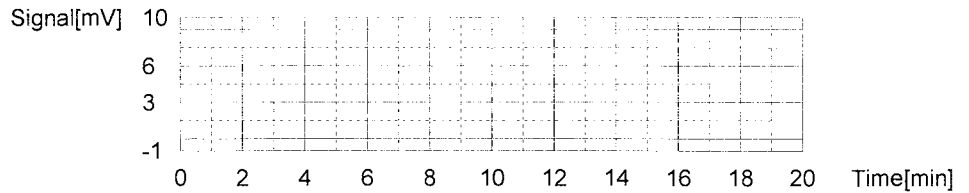
Mean Area 163.7
Mean CNV 163.7



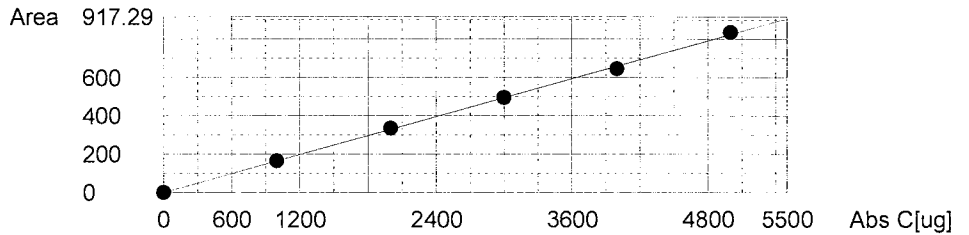
AbsC: 0.000ug

No.	Area	CNV	Abs C	Weight	Rem.	Ex.	Date / Time
1	0.000	0.000	0.000ug	0.000mg	*****		1/30/2012 1:15:06 PM

Mean Area 0.000
Mean CNV 0.000



Slope: 0.1649
Intercept: 0.000
r²: 0.9993
r: 0.9997
Zero Shift: Yes



Control Sample

Sample Name: ICV
Sample ID: ICV IS# # 44239
Method: ICVsoil - TOC by 415.1-9060-SM5310B.tpl
Status: Completed
Chk. Result: Control value: 2.148 / Control within range!

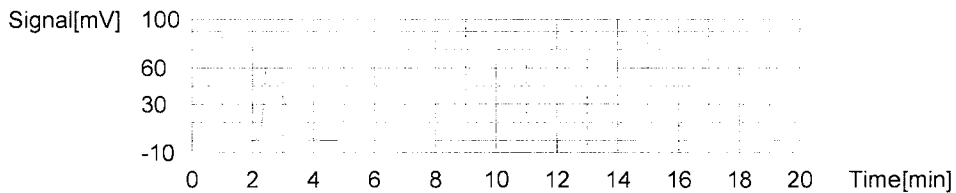
Type	Anal.	Manual Dilution	Density
Control	SSM-TC	1.000	1.000mg/uL

1. Det.

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	354.3	354.3	2148ug	2.148mg	4.800mg	4uL		5mg Sucrose.2012_01_30_11_34_10.cal	4/30/2012 11:10:31 AM

Mean Area 354.3
 Mean CNV 354.3
 Mean Conc. 2.148mg



Control Sample

Sample Name: ICB
 Sample ID: ICB
 Method: ICBsoil - TOC by 415.1-9060-SM5310B.tpl
 Status: Completed
 Chk. Result: Control value: 0.000 / Control within range!

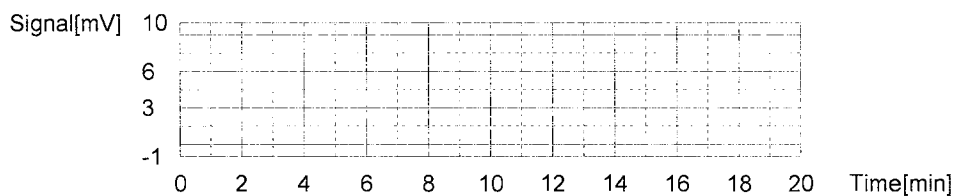
Type	Anal.	Manual Dilution	Density
Control	SSM-TC	1.000	1.000mg/uL

1. Det.

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	0.000	0.000	0.000ug	0.000mg	0.000mg	0uL		5mg Sucrose.2012_01_30_11_34_10.cal	4/30/2012 11:18:10 AM

Mean Area 0.000
 Mean CNV 0.000
 Mean Conc. 0.000mg



Control Sample

Sample Name: MB
 Sample ID: MB
 Method: MBsoil - TOC by 415.1-9060-SM5310B.tpl
 Status: Completed
 Chk. Result: Control value: 0.000 / Control within range!

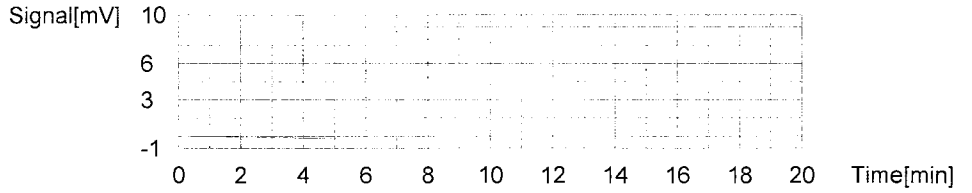
Type	Anal.	Manual Dilution	Density
Control	SSM-TC	1.000	1.000mg/uL

1. Det.

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	0.000	0.000	0.000ug	0.000mg	0.000mg	0uL		5mg Sucrose.2012_01_30_11_34_10.cal	4/30/2012 11:27:12 AM

Mean Area 0.000
 Mean CNV 0.000
 Mean Conc. 0.000mg



Control Sample

Sample Name: LCS
 Sample ID: LCS IS#44239
 Method: LCSsoil - TOC by 415.1-9060-SM5310B.tpl
 Status: Completed
 Chk. Result: Control value: 1.927 / Control within range!

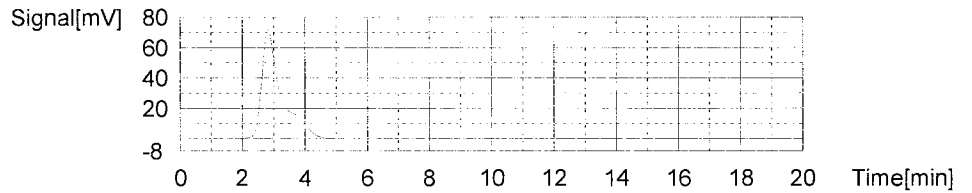
Type	Anal.	Manual Dilution	Density
Control	SSM-TC	1.000	1.000mg/uL

1. Det.

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	317.9	317.9	1927ug	1.927mg	4.800mg	4uL	5mg Sucrose	2012_01_30_11_34_10.cal	4/30/2012 12:25:19 PM

Mean Area 317.9
 Mean CNV 317.9
 Mean Conc. 1.927mg



Control Sample

Sample Name: LCSD
 Sample ID: LCSD IS# 44239
 Method: LCSsoil - TOC by 415.1-9060-SM5310B.tpl
 Status: Completed
 Chk. Result: Control value: 1.937 / Control within range!

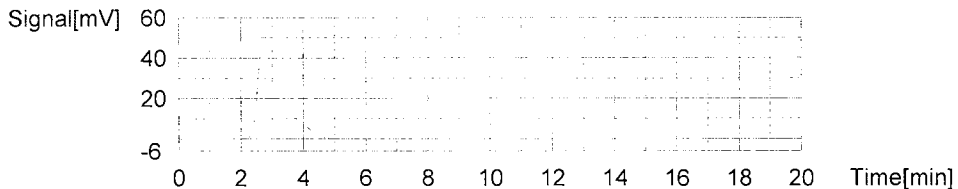
Type	Anal.	Manual Dilution	Density
Control	SSM-TC	1.000	1.000mg/uL

1. Det.

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	278.5	278.5	1937ug	1.937mg	4.800mg	4uL	5mg Sucrose	10-19-09.2010_03_03_12_08_24	30/2012 1:30:01 PM

Mean Area 278.5
 Mean CNV 278.5
 Mean Conc. 1.937mg



Sample

Sample Name: 350583501
 Sample ID: 350583501
 Origin: TOC soil by 415.1-9060-SM5310B.met
 Status: Completed
 Chk. Result

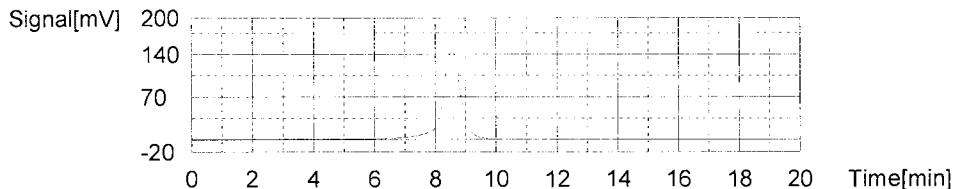
Type	Anal.	Manual Dilution	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:3.942mg

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	650.1	650.1	3942ug	3.942mg	21.80mg	21uL	5mg Sucrose.2012_01_30_11_34_10.cal		4/30/2012 1:49:55 PM

Mean Area 650.1
 Mean CNV 650.1
 Mean Conc. 3.942mg



Sample

Sample Name: 350583502
 Sample ID: 350583502
 Origin: TOC soil by 415.1-9060-SM5310B.met
 Status: Completed
 Chk. Result

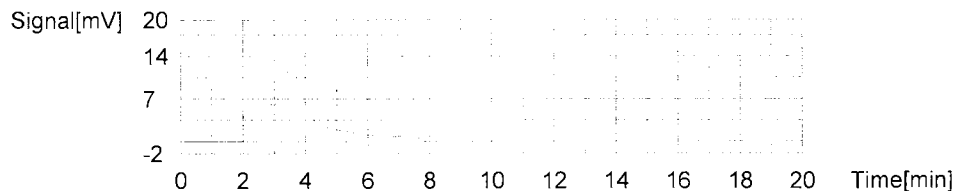
Type	Anal.	Manual Dilution	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:0.6269mg

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	103.4	103.4	626.9ug	0.6269mg	29.50mg	29uL	5mg Sucrose.2012_01_30_11_34_10.cal		4/30/2012 1:59:44 PM

Mean Area 103.4
 Mean CNV 103.4
 Mean Conc. 0.6269mg



Sample

Sample Name: 350583503
 Sample ID: 350583503
 Origin: TOC soil by 415.1-9060-SM5310B.met
 Status: Completed
 Chk. Result

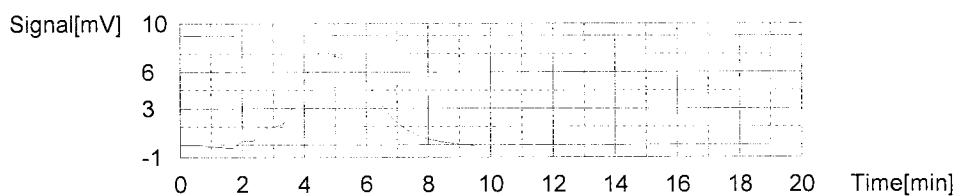
Type	Anal.	Manual Dilution	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:0.8324mg

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	137.3	137.3	832.4ug	0.8324mg	24.70mg	24uL	5mg Sucrose	2012_01_30_11_34_10.cal	4/30/2012 2:14:21 PM

Mean Area 137.3
 Mean CNV 137.3
 Mean Conc. 0.8324mg



Sample

Sample Name: 350583504
 Sample ID: 350583504
 Origin: TOC soil by 415.1-9060-SM5310B.met
 Status: Completed
 Chk. Result

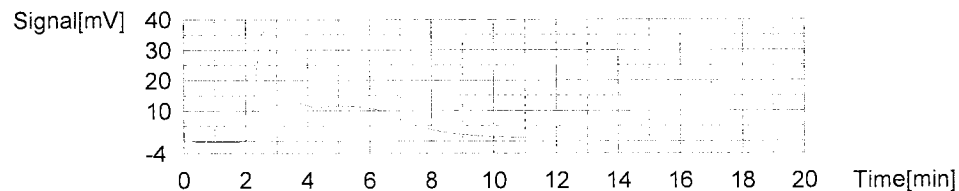
Type	Anal.	Manual Dilution	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:2.738mg

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	451.6	451.6	2738ug	2.738mg	24.00mg	24uL	5mg Sucrose	2012_01_30_11_34_10.cal	4/30/2012 2:27:01 PM

Mean Area 451.6
 Mean CNV 451.6
 Mean Conc. 2.738mg



Sample

Sample Name: 350583505
 Sample ID: 350583505
 Origin: TOC soil by 415.1-9060-SM5310B.met
 Status: Completed
 Chk. Result:

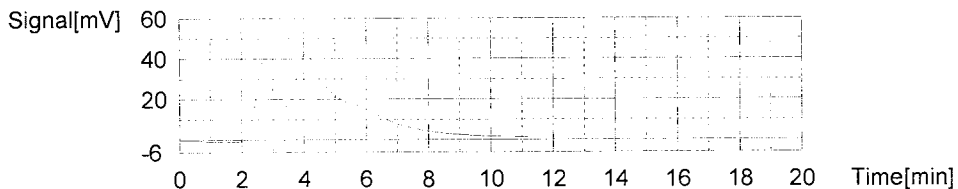
Type	Anal.	Manual Dilution	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:4.288mg

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	707.2	707.2	4288ug	4.288mg	13.40mg	13uL	5mg Sucrose	2012_01_30_11_34_10.cal	4/30/2012 3:42:08 PM

Mean Area 707.2
 Mean CNV 707.2
 Mean Conc. 4.288mg



Sample

Sample Name: 350583506
 Sample ID: 350583506
 Origin: TOC soil by 415.1-9060-SM5310B.met
 Status: Completed
 Chk. Result:

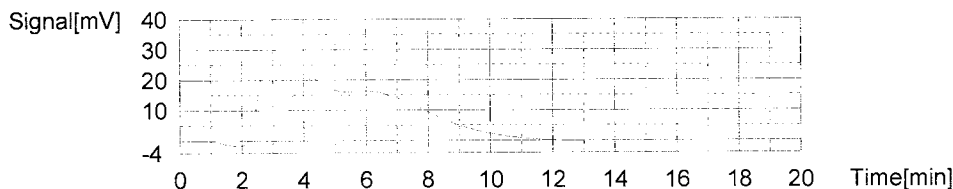
Type	Anal.	Manual Dilution	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:4.078mg

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	672.6	672.6	4078ug	4.078mg	12.00mg	12uL	5mg Sucrose	2012_01_30_11_34_10.cal	4/30/2012 3:58:31 PM

Mean Area 672.6
 Mean CNV 672.6
 Mean Conc. 4.078mg



Sample

Sample Name: 350583506DUP
 Sample ID: 350583506DUP
 Origin: TOC soil by 415.1-9060-SM5310B.met
 Status: Completed
 Chk. Result:

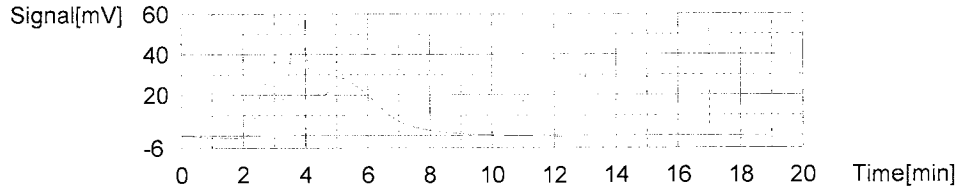
Type	Anal.	Manual Dilution	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:4.567mg

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	753.2	753.2	4567ug	4.567mg	11.50mg	11uL		5mg Sucrose.2012_01_30_11_34_10.cal	4/30/2012 4:14:10 PM

Mean Area 753.2
 Mean CNV 753.2
 Mean Conc. 4.567mg



Control Sample

Sample Name: CCV
 Sample ID: CCV IS# 44240
 Method: CCVsoil - TOC by 415.1-9060-SM5310B.tpl
 Status: Completed
 Chk. Result: Control value: 2.054 / Control within range!

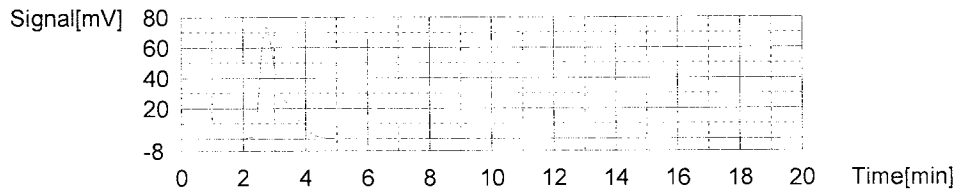
Type	Anal.	Manual Dilution	Density
Control	SSM-TC	1.000	1.000mg/uL

1. Det.

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	338.8	338.8	2054ug	2.054mg	4.800mg	4uL		5mg Sucrose.2012_01_30_11_34_10.cal	4/30/2012 5:05:59 PM

Mean Area 338.8
 Mean CNV 338.8
 Mean Conc. 2.054mg



Control Sample

Sample Name: CCB
 Sample ID: CCB
 Method: CCBsoil - TOC by 415.1-9060-SM5310B.tpl
 Status: Completed
 Chk. Result: Control value: 0.000 / Control within range!

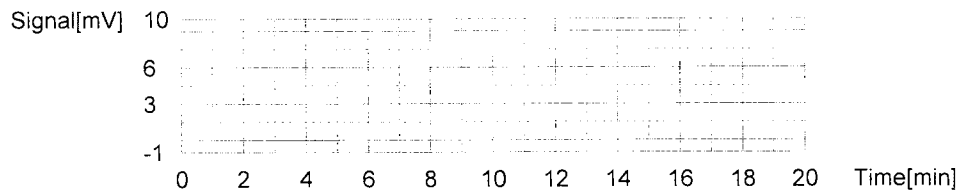
Type	Anal.	Manual Dilution	Density
Control	SSM-TC	1.000	1.000mg/uL

1. Det.

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	0.000	0.000	0.000ug	0.000mg	0.000mg	0uL		5mg Sucrose.2012_01_30_11_34_10.cal	4/30/2012 5:19:55 PM

Mean Area 0.000
Mean CNV 0.000
Mean Conc. 0.000mg



STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44239	Sucrose	Office Snax	0	12/15/2012	500 G	12/15/2011	ddthompson
8.33 MG/G: TOC							

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44240	Sucrose	Office Snax	0	12/15/2012	500 G	12/15/2011	ddthompson
8.33 MG/G: TOC							

3505843

3443

End Of Report