LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM101217\
Data File : BM012138.D
Acq On : 13 Oct 2017 15:45
Operator : SJ/JU
Sample : I5533-09DL 10X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Title : SVOA CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.839	801	808	824	rBV	672873	1155426	5.54%	0.696%
2	10.651	1278	1286	1290	rBV	965868	1709033	8.19%	1.029%
3	10.698	1290	1294	1302	rVB	470646	789070	3.78%	0.475%
4	12.316	1563	1569	1579	rBV	352111	584664	2.80%	0.352%
5	12.533	1597	1606	1616	rVB	254938	426722	2.04%	0.257%
6	13.327	1731	1741	1749	rBV	123197	215602	1.03%	0.130%
7	13.669	1789	1799	1807	rBV5	139708	396062	1.90%	0.238%
8	13.816	1816	1824	1829	rBV	238337	460282	2.21%	0.277%
9	13.868	1829	1833	1836	rBV	146748	220271	1.06%	0.133%
10	14.051	1857	1864	1868	rBV	127572	213323	1.02%	0.128%
11	14.498	1929	1940	1945	rBV2	1555271	2562892	12.28%	1.543%
12	14.557	1945	1950	1959	rVB	1052274	1639690	7.86%	0.987%
13	14.892	2001	2007	2016	rVV	975375	1530433	7.33%	0.921%
14	15.545	2112	2118	2128	rVB	1645248	2516684	12.06%	1.515%
15	15.704	2142	2145	2150	rVB2	201148	284704	1.36%	0.171%
16	15.839	2163	2168	2177	rVB	359049	586274	2.81%	0.353%
17	15.986	2188	2193	2201	rVV	371234	764156	3.66%	0.460%
18	16.074	2201	2208	2214	rVB3	102095	225123	1.08%	0.136%
19	16.545	2277	2288	2293	rBV2	373391	845748	4.05%	0.509%
20	16.598	2293	2297	2302	rVB	177260	257178	1.23%	0.155%
21	16.698	2310	2314	2318	rVB	176702	257418	1.23%	0.155%
22	16.774	2318	2327	2330	rBV3	186896	432292	2.07%	0.260%
23	16.904	2344	2349	2355	rVB3	179062	295836	1.42%	0.178%
24	16.974	2355	2361	2368	rBV3	226422	586167	2.81%	0.353%
25	17.062	2371	2376	2387	rVB	777379	1170343	5.61%	0.705%
26	17.245	2401	2407	2410	rBV2	2010707	2992071	14.34%	1.802%
27	17.292	2410	2415	2421	rVV	14683733	20407989	97.80%	12.288%
28	17.380	2425	2430	2435	rVV	3283245	4585258	21.97%	2.761%
29	17.439	2435	2440	2445	rVV	243676	438774	2.10%	0.264%
30	17.651	2468	2476	2483	rBV2	915196	1654885	7.93%	0.996%
31	17.756	2490	2494	2497	rBV	215383	274748	1.32%	0.165%
32	17.827	2501	2506	2514	rVB5	167741	421639	2.02%	0.254%
33	17.962	2526	2529	2538	rVB2	113478	242915	1.16%	0.146%
34	18.121	2550	2556	2560	rBV	1350217	1990371	9.54%	1.198%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM101217\
Data File : BM012138.D
Acq On : 13 Oct 2017 15:45
Operator : SJ/JU
Sample : I5533-09DL 10X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Title : SVOA CALIBRATION

35	18.168	2560	2564	2571	rVB	1798601	2585983	12.39%	1.557%
36	18.251	2573	2578	2583	rVB	775139	1058572	5.07%	0.637%
37	18.321	2583	2590	2593	rBV2	1976315	3596291	17.23%	2.165%
38	18.351	2593	2595	2601	rVB	851903	1032405	4.95%	0.622%
39	18.615	2635	2640	2645	rBV	1025114	1356317	6.50%	0.817%
40	18.674	2645	2650	2657	rVB	432240	627985	3.01%	0.378%
41	18.862	2679	2682	2687	rVB2	299565	381061	1.83%	0.229%
42	18.915	2687	2691	2694	rBV	266690	345058	1.65%	0.208%
43	18.951	2694	2697	2701	rVB	227941	292984	1.40%	0.176%
44	19.033	2706	2711	2716	rBV	730441	1259439	6.04%	0.758%
45	19.186	2732	2737	2743	rVB6	247757	583177	2.79%	0.351%
46	19.309	2751	2758	2763	rBV	15612335	20867032	100.00%	12.564%
47	19.398	2770	2773	2779	rVB2	388356	518748	2.49%	0.312%
48	19.545	2795	2798	2803	rBV	334456	446708	2.14%	0.269%
49	19.639	2808	2814	2816	rBV2	2466433	3998517	19.16%	2.407%
50	19.674	2816	2820	2827	rVV	12777856	16896937	80.97%	10.174%
51	19.739	2827	2831	2837	rVB2	648044	980246	4.70%	0.590%
52	19.845	2845	2849	2854	rVB	671049	882634	4.23%	0.531%
53	19.915	2857	2861	2866	rVB	533489	791805	3.79%	0.477%
54	19.992	2868	2874	2880	rBV3	678200	1780562	8.53%	1.072%
55	20.162	2891	2903	2908	rBV	2142941	4149876	19.89%	2.499%
56	20.262	2915	2920	2923	rBV	1751908	2399261	11.50%	1.445%
57	20.321	2924	2930	2933	rVB3	855895	1501876	7.20%	0.904%
58	20.462	2950	2954	2957	rBV	559627	730277	3.50%	0.440%
59	20.503	2958	2961	2965	rVV	494508	659938	3.16%	0.397%
60	20.909	3028	3030	3037	rVB2	455327	573767	2.75%	0.345%
61	21.074	3055	3058	3061	rBV	744350	927667	4.45%	0.559%
62	21.109	3061	3064	3067	rVB	1149158	1313026	6.29%	0.791%
63	21.156	3068	3072	3076	rBV2	862548	1441417	6.91%	0.868%
64	21.415	3111	3116	3121	rBV3	7631982	13028266	62.43%	7.844%
65	21.468	3121	3125	3133	rVB	5563508	7505202	35.97%	4.519%
66	21.586	3142	3145	3151	rVB	1037579	1363534	6.53%	0.821%
67	23.056	3390	3395	3401	rBV	3107782	7530318	36.09%	4.534%
68	23.562	3476	3481	3491	rVB	1864430	3947643	18.92%	2.377%
69	23.662	3493	3498	3507	rVB	2999336	5597657	26.83%	3.370%

Sum of corrected areas: 166086229

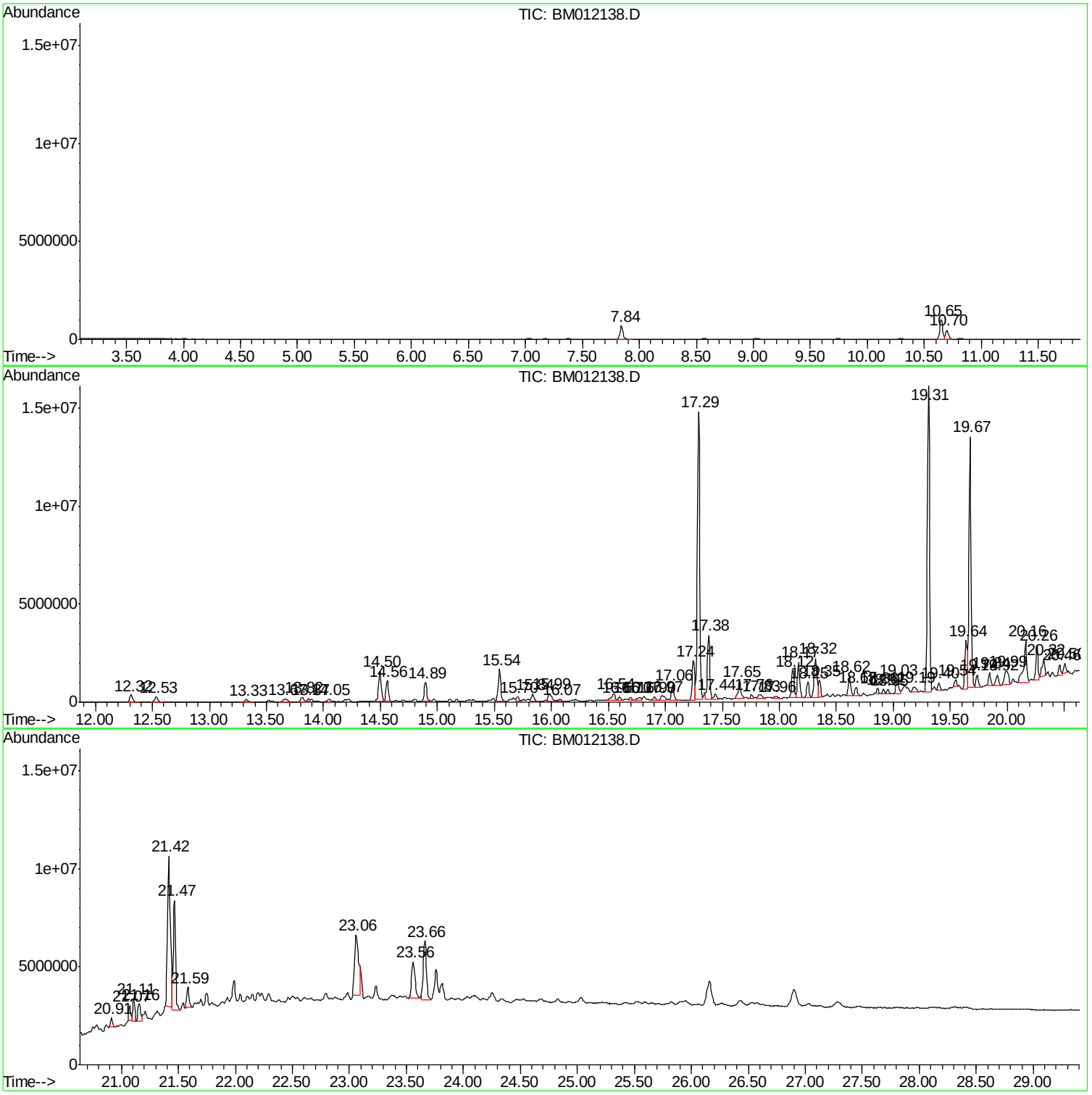
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM101217\
Data File : BM012138.D
Acq On : 13 Oct 2017 15:45
Operator : SJ/JU
Sample : I5533-09DL 10X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM101217\
Data File : BM012138.D
Acq On : 13 Oct 2017 15:45
Operator : SJ/JU
Sample : I5533-09DL 10X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

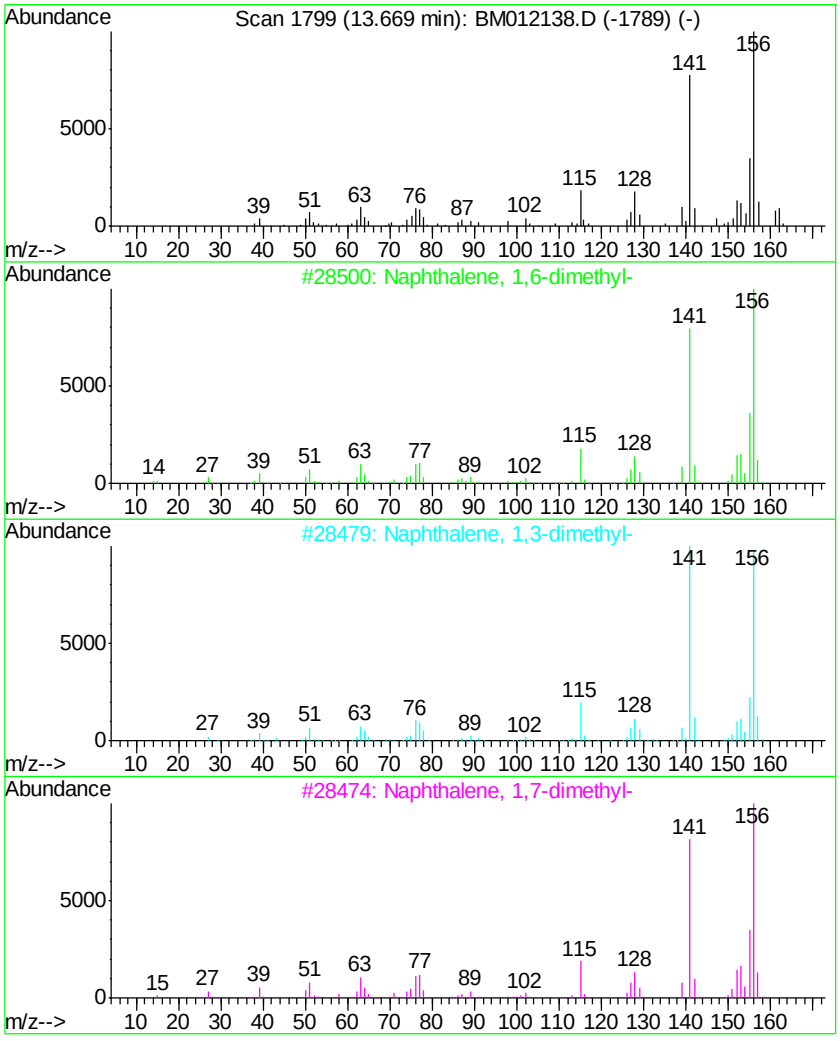
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

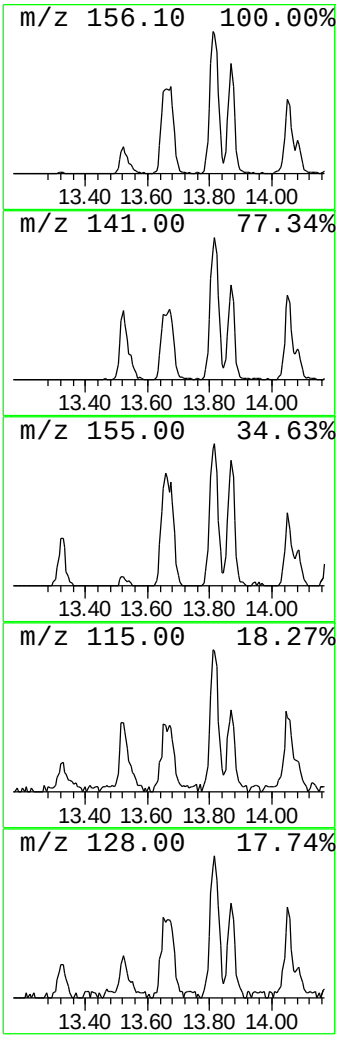
****

Peak Number 2 Naphthalene, 1,6-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	3.09 ng/ul	396062	Acenaphthene-d10	14.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
2	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
3	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
5	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM101217\
Data File : BM012138.D
Acq On : 13 Oct 2017 15:45
Operator : SJ/JU
Sample : I5533-09DL 10X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

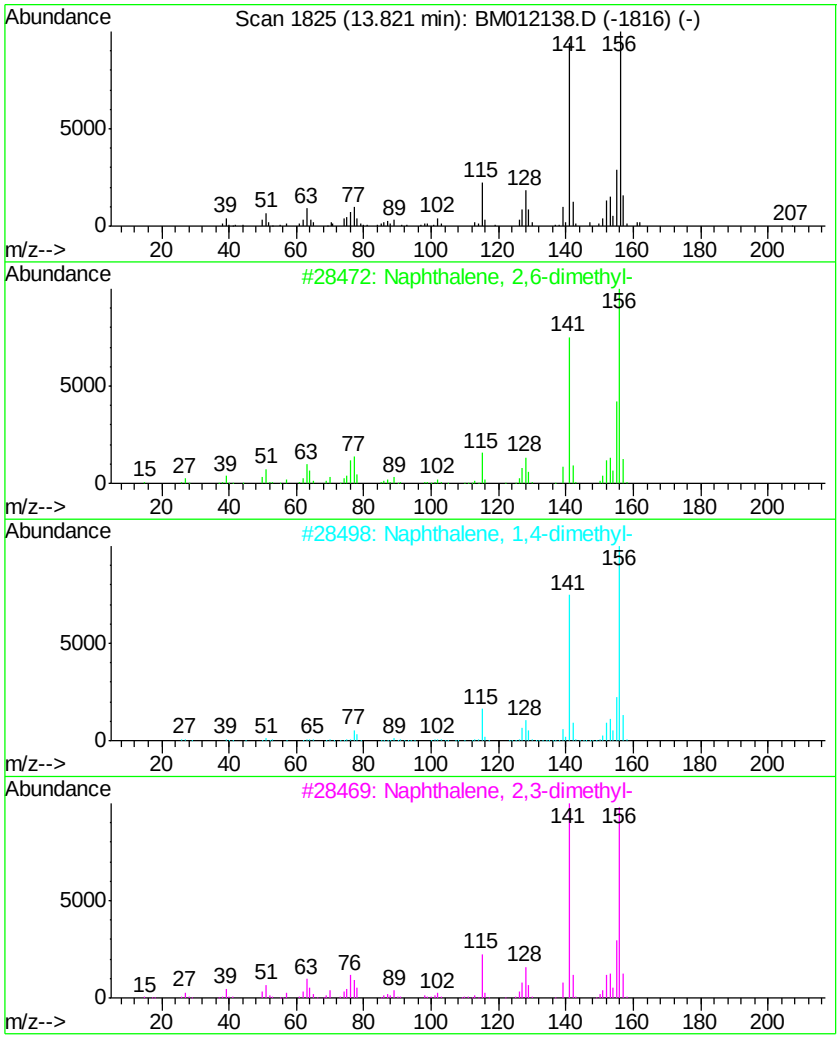
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

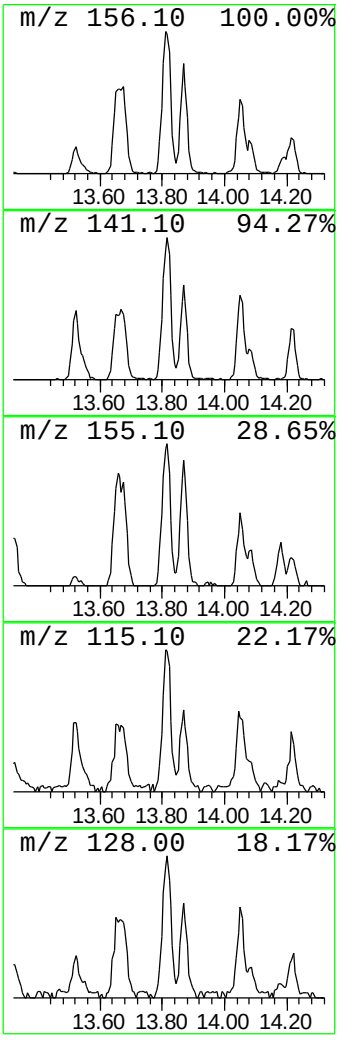
****

Peak Number 3 Naphthalene, 2,6-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.82	3.59 ng/ul	460282	Acenaphthene-d10	14.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
2	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
3	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96
5	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	95





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM101217\
Data File : BM012138.D
Acq On : 13 Oct 2017 15:45
Operator : SJ/JU
Sample : I5533-09DL 10X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

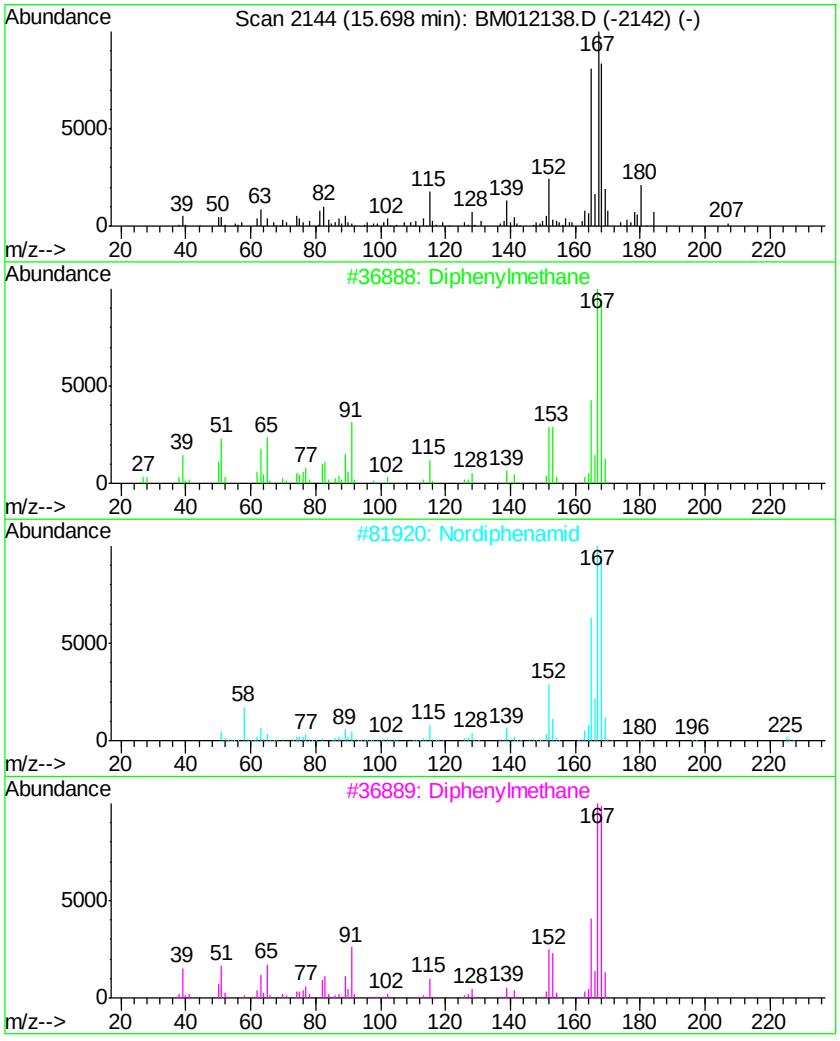
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

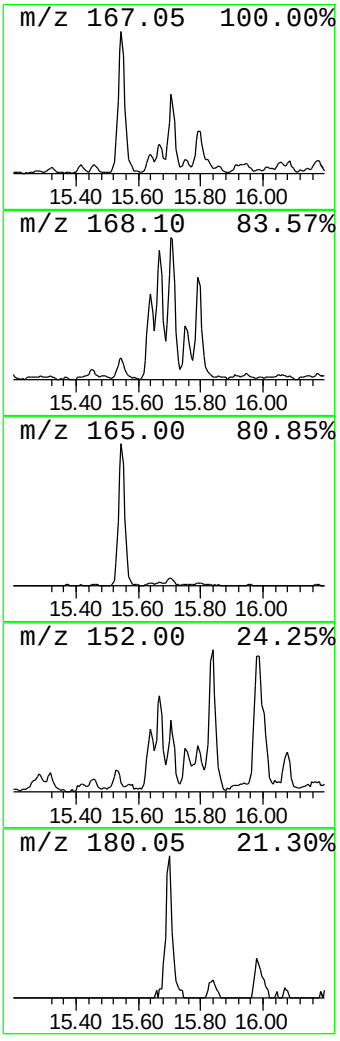
****

Peak Number 4 Diphenylmethane Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.70	2.22 ng/ul	284704	Acenaphthene-d10	14.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Diphenylmethane	168	C13H12	000101-81-5	81
2	Nordiphenamid	225	C15H15NO	000954-21-2	78
3	Diphenylmethane	168	C13H12	000101-81-5	64
4	1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	55
5	Fluorene, 2,4a-dihydro-	168	C13H12	059247-36-8	53





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM101217\
Data File : BM012138.D
Acq On : 13 Oct 2017 15:45
Operator : SJ/JU
Sample : I5533-09DL 10X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

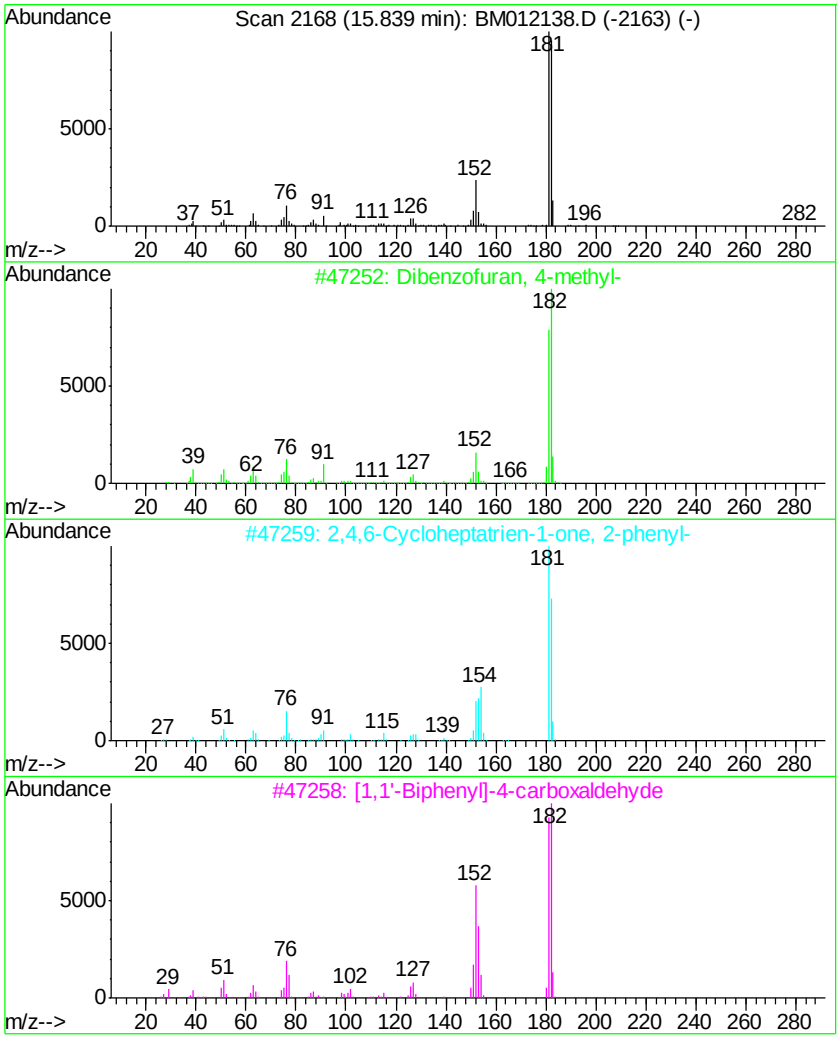
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

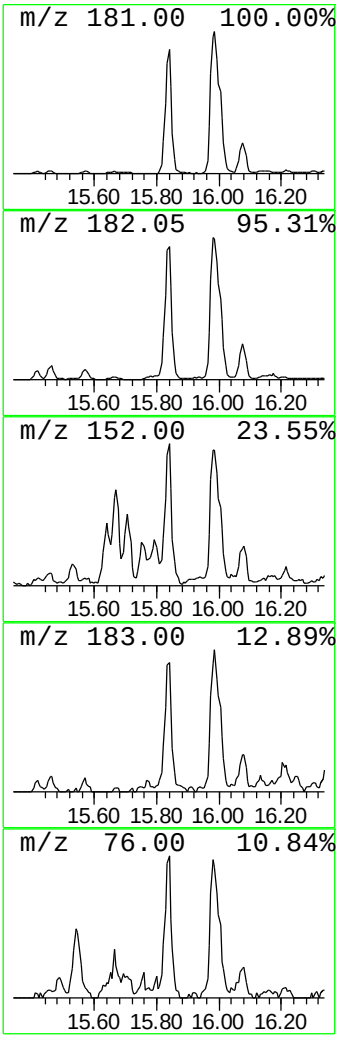
****

Peak Number 5 Dibenzofuran, 4-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.84	4.58 ng/ul	586274	Acenaphthene-d10	14.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	87
2	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	86
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	83
4	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
5	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	78





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM101217\
Data File : BM012138.D
Acq On : 13 Oct 2017 15:45
Operator : SJ/JU
Sample : I5533-09DL 10X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

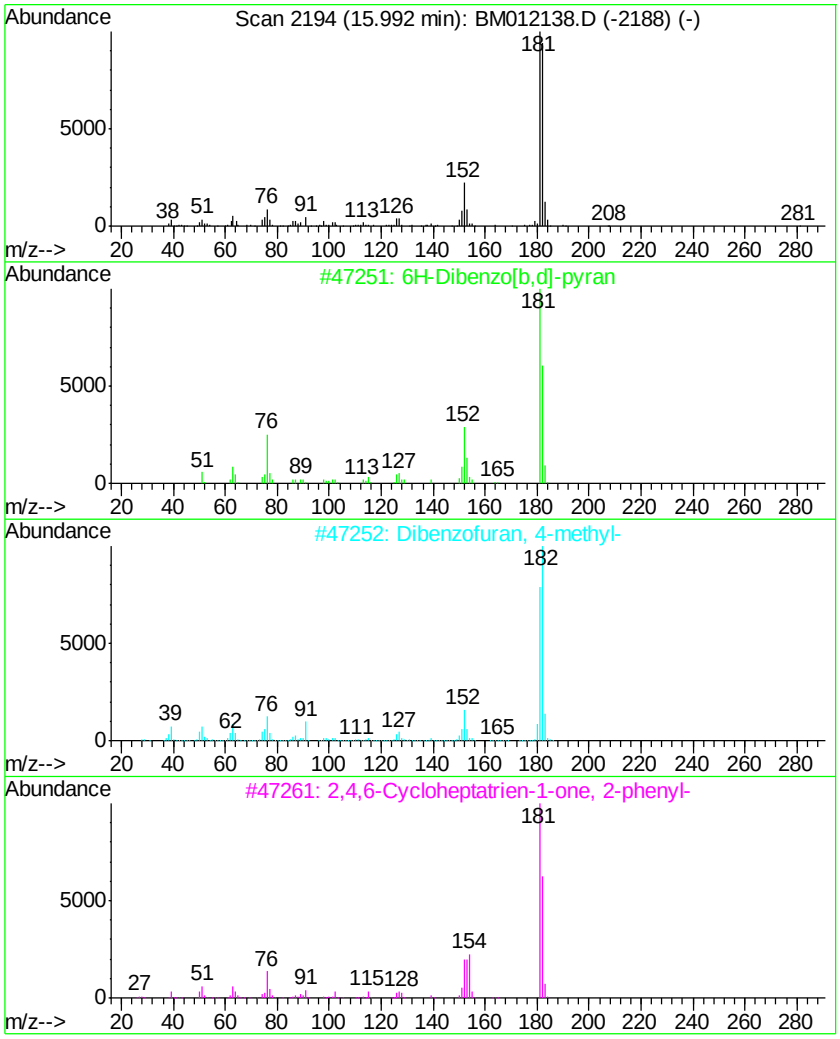
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

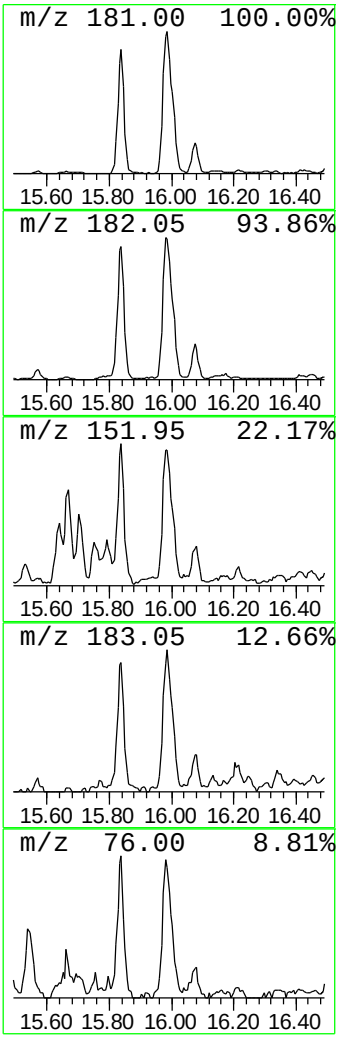
****

Peak Number 6 6H-Dibenzo[b,d]-pyran Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.99	5.11 ng/ul	764156	Phenanthrene-d10	17.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6H-Dibenzo[b,d]-pyran	182	C13H10O	000229-95-8	91
2	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	91
3	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	91
4	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	90
5	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	86





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM101217\
Data File : BM012138.D
Acq On : 13 Oct 2017 15:45
Operator : SJ/JU
Sample : I5533-09DL 10X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

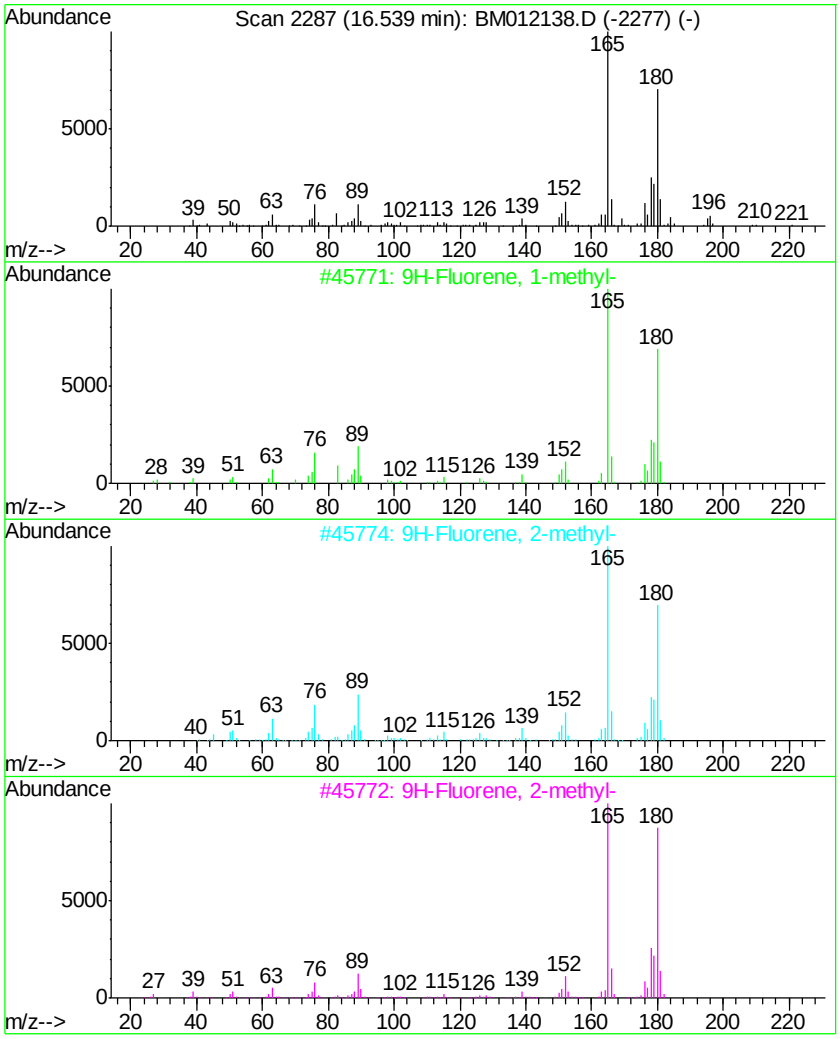
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

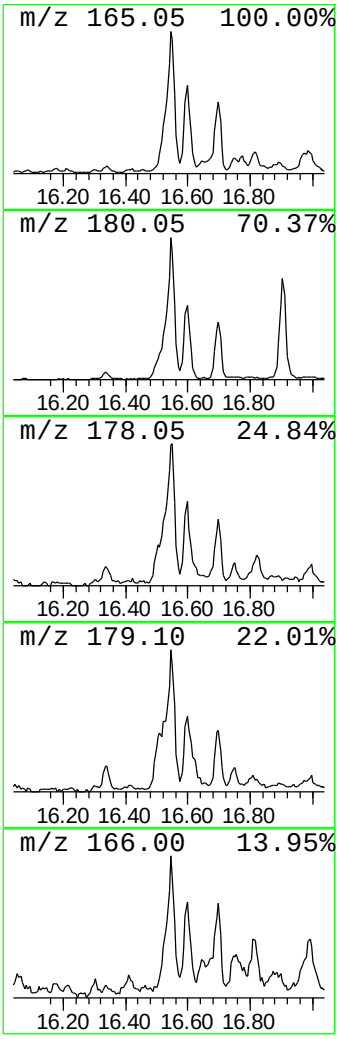
****

Peak Number 7 9H-Fluorene, 1-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.54	5.65 ng/ul	845748	Phenanthrene-d10	17.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	97
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
3	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	93
4	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	91
5	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	91





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM101217\
Data File : BM012138.D
Acq On : 13 Oct 2017 15:45
Operator : SJ/JU
Sample : I5533-09DL 10X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

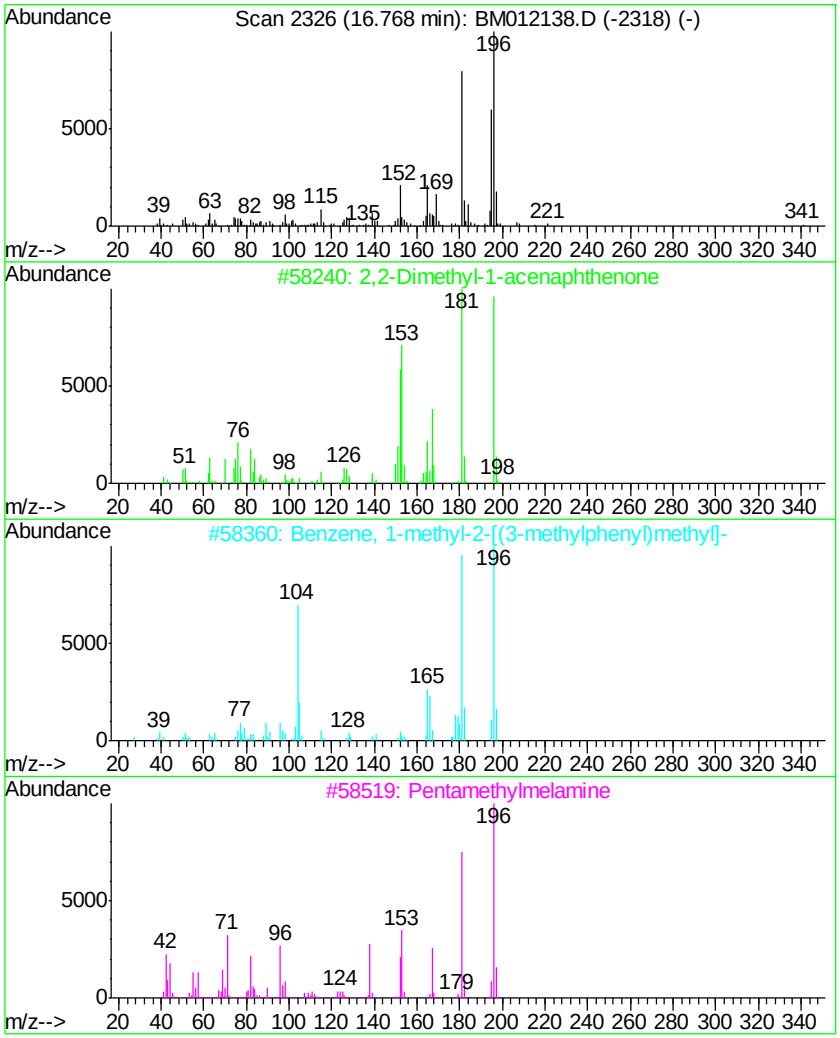
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

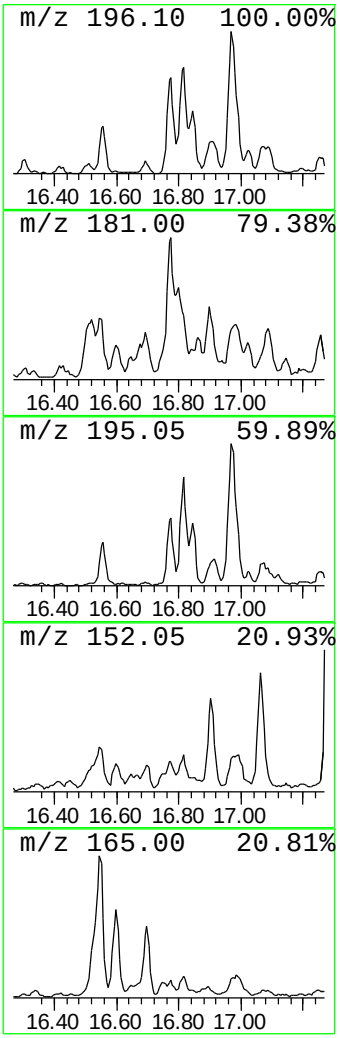
****

Peak Number 8 2,2-Dimethyl-1-acenaphthenone Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.77	2.89 ng/ul	432292	Phenanthrene-d10	17.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2-Dimethyl-1-acenaphthenone	196	C14H12O	018086-43-6	64
2	Benzene, 1-methyl-2-[(3-methylph...	196	C15H16	021895-13-6	58
3	Pentamethylmelamine	196	C8H16N6	035832-09-8	58
4	Benzene, 1-methyl-2-[(4-methylph...	196	C15H16	021895-17-0	58
5	Benzene, 1,1'-methylenebis[3-met...	196	C15H16	021895-14-7	52





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Acq On : 13 Oct 2017 15:45
Operator : SJ/JU
Sample : I5533-09DL 10X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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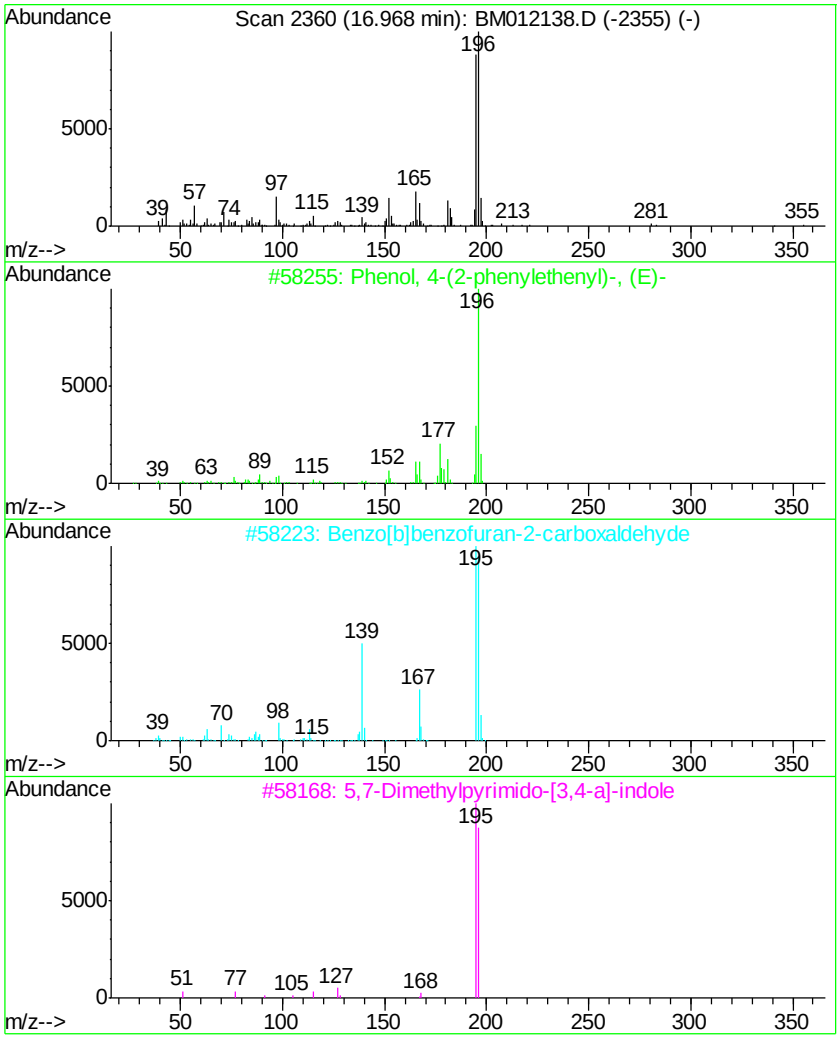
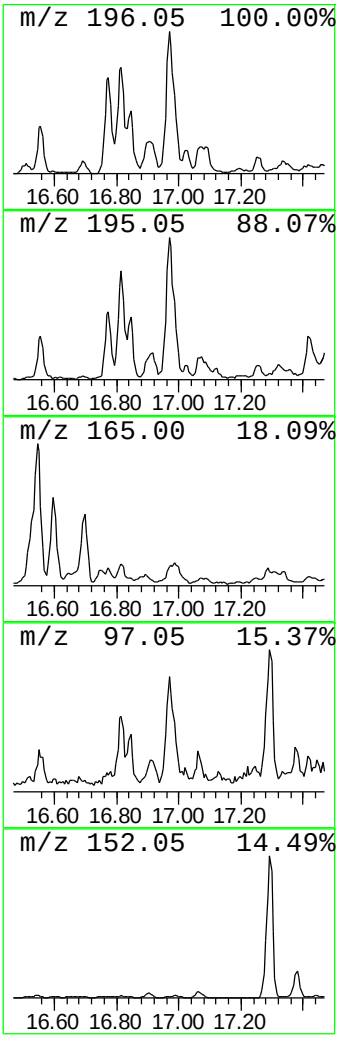
Peak Number 9 Phenol, 4-(2-phenylethenyl)... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.97	3.92 ng/ul	586167	Phenanthrene-d10	17.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	64
2	Benzo[b]benzofuran-2-carboxaldehyde	196	C13H8O2	1000351-56-0	62
3	5,7-Dimethylpyrimido-[3,4-a]-indole	196	C13H12N2	038349-21-2	52
4	Phenol, 3-(2-phenylethenyl)-, (E)-	196	C14H12O	017861-18-6	52
5	Benzenamine, 4-[(E)-2-(4-pyridin...	196	C13H12N2	1000351-61-4	49





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Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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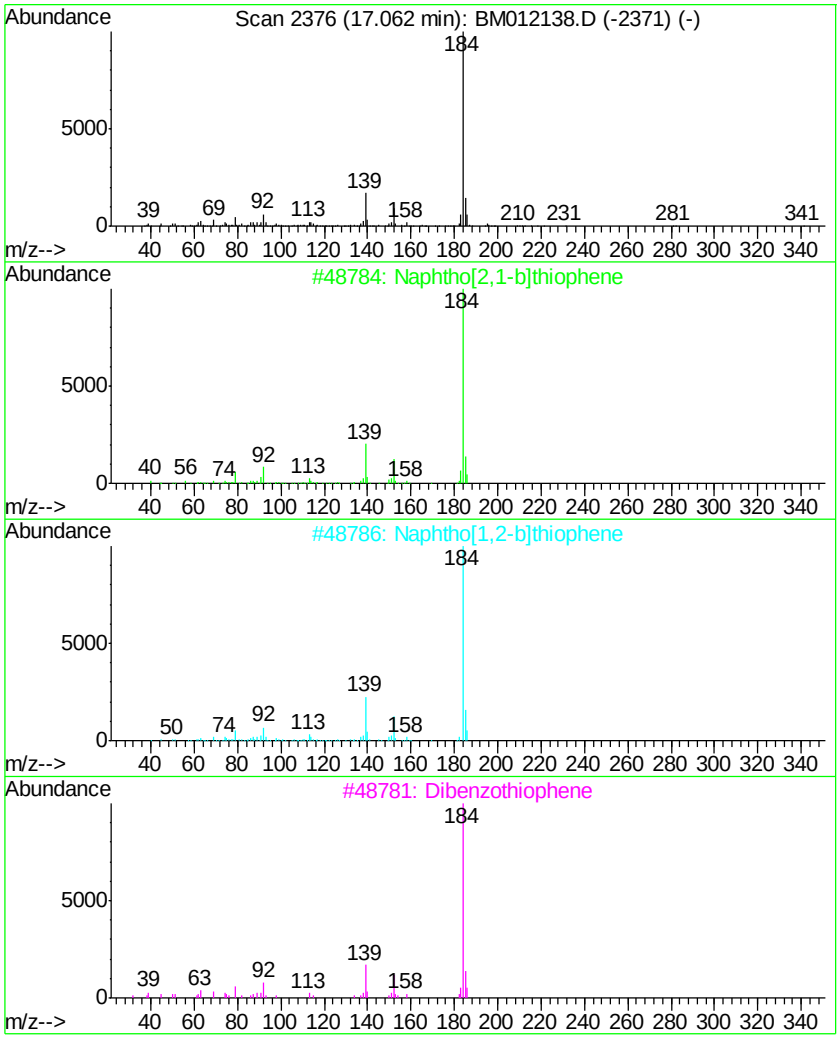
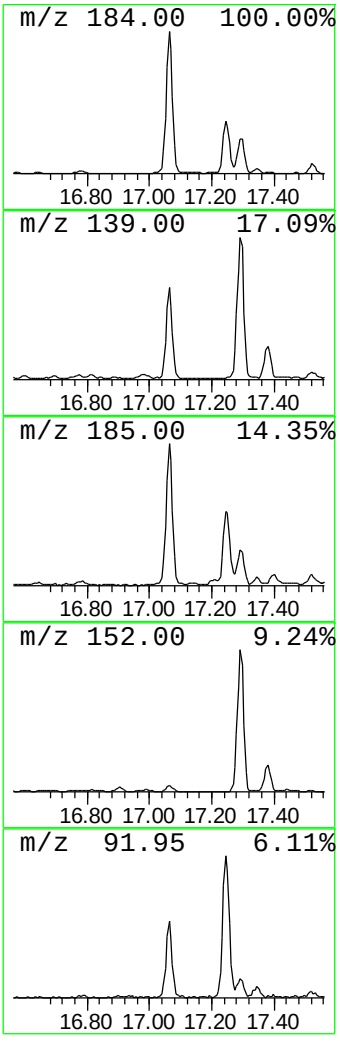
Peak Number 10 Naphtho[2,1-b]thiophene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.06	7.82 ng/ul	1170340	Phenanthrene-d10	17.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	97
2	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	97
3	Dibenzothiophene	184	C12H8S	000132-65-0	96
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
5	Dibenzothiophene	184	C12H8S	000132-65-0	94





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Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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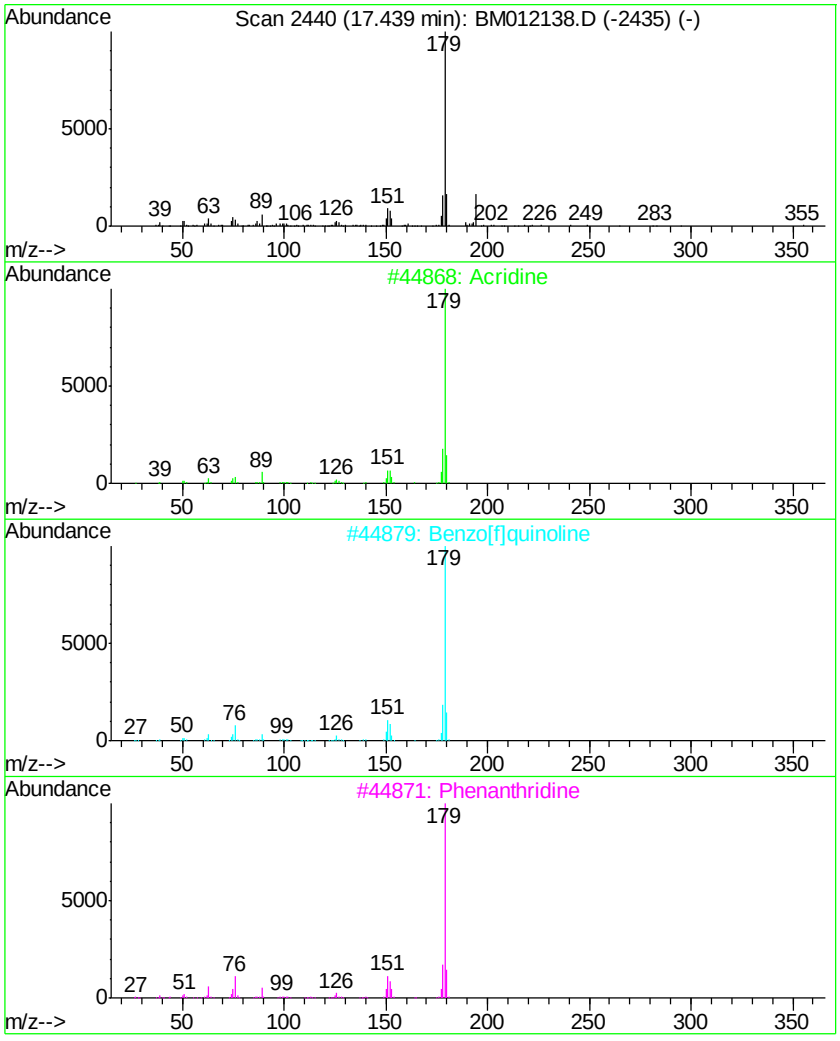
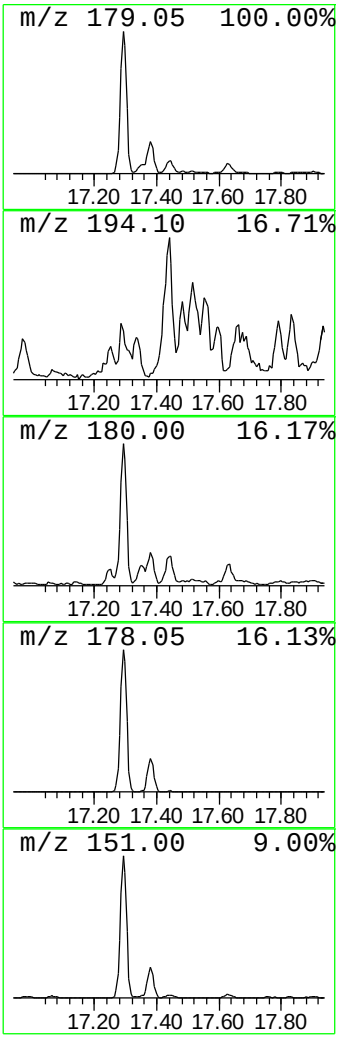
Peak Number 11 Acridine Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.44	2.93 ng/ul	438774	Phenanthrene-d10	17.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acridine	179	C13H9N	000260-94-6	93
2	Benzo[f]quinoline	179	C13H9N	000085-02-9	93
3	Phenanthridine	179	C13H9N	000229-87-8	91
4	Acridine	179	C13H9N	000260-94-6	90
5	Phenanthridine	179	C13H9N	000229-87-8	90





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Operator : SJ/JU
Sample : I5533-09DL 10X
Misc :
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Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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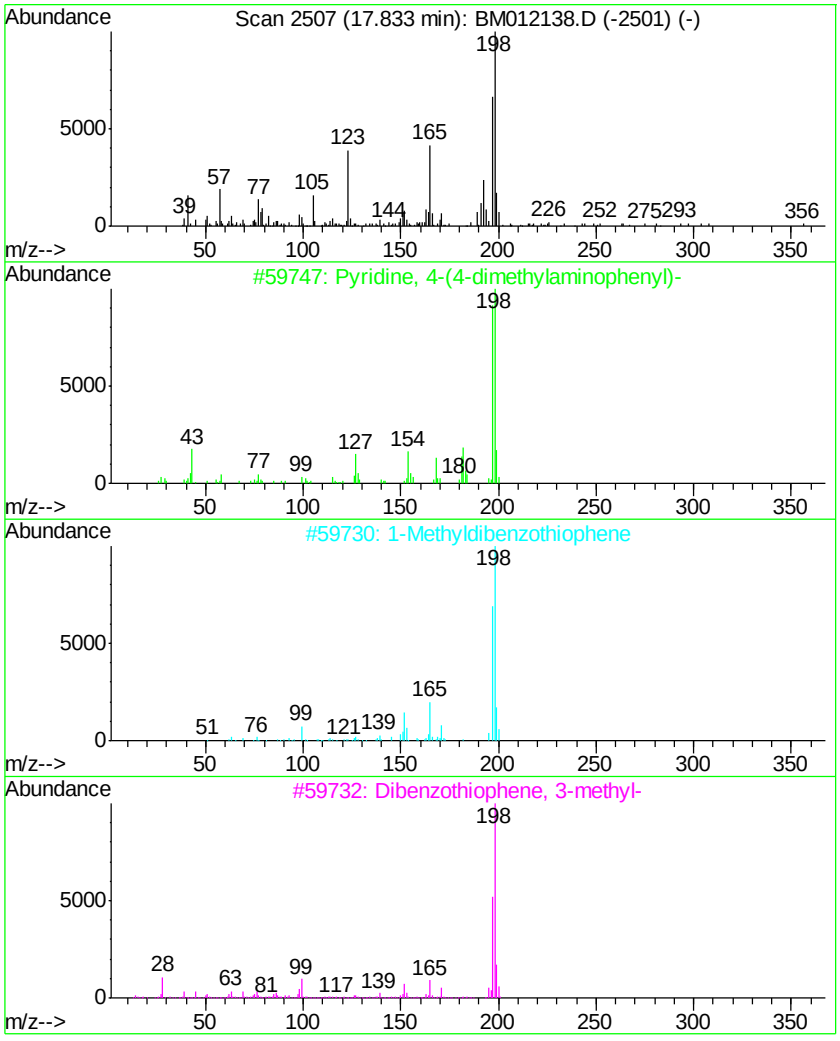
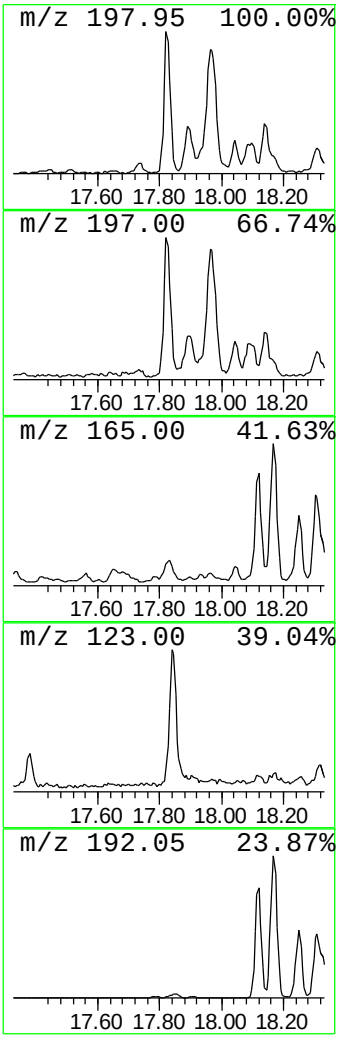
Peak Number 12 Pyridine, 4-(4-dimethylamin... Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.83	2.82 ng/ul	421639	Phenanthrene-d10	17.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyridine, 4-(4-dimethylaminophen...	198	C13H14N2	001137-80-0	74
2	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	72
3	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	68
4	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	68
5	Benzene, 1,1'-(1-fluoro-1,2-ethe...	198	C14H11F	000671-19-2	59





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ALS Vial : 37 Sample Multiplier: 1

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Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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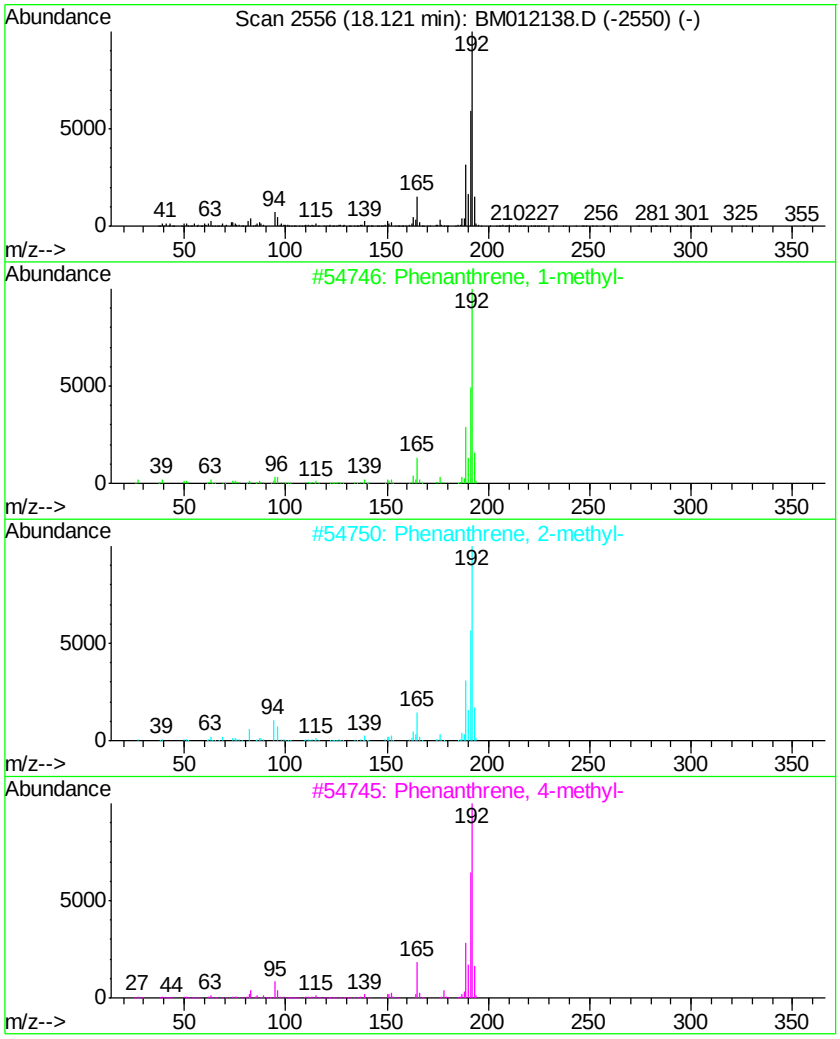
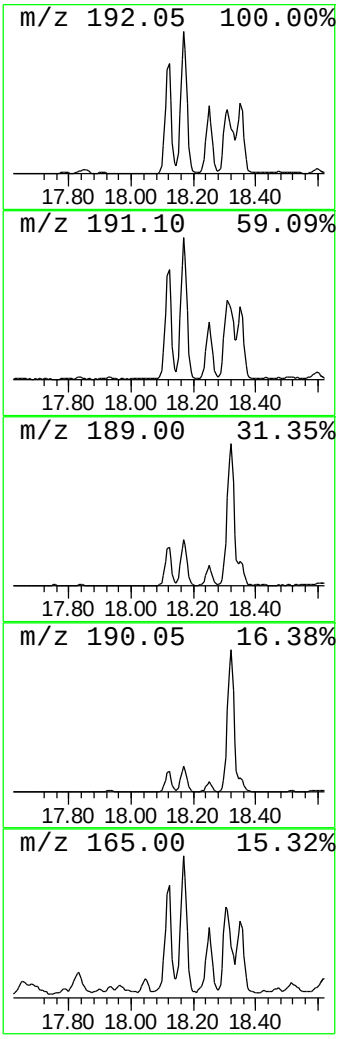
Peak Number 13 1H-Indene, 1-phenyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.12	13.30 ng/ul	1990370	Phenanthrene-d10	17.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	94





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Sample : I5533-09DL 10X
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ALS Vial : 37 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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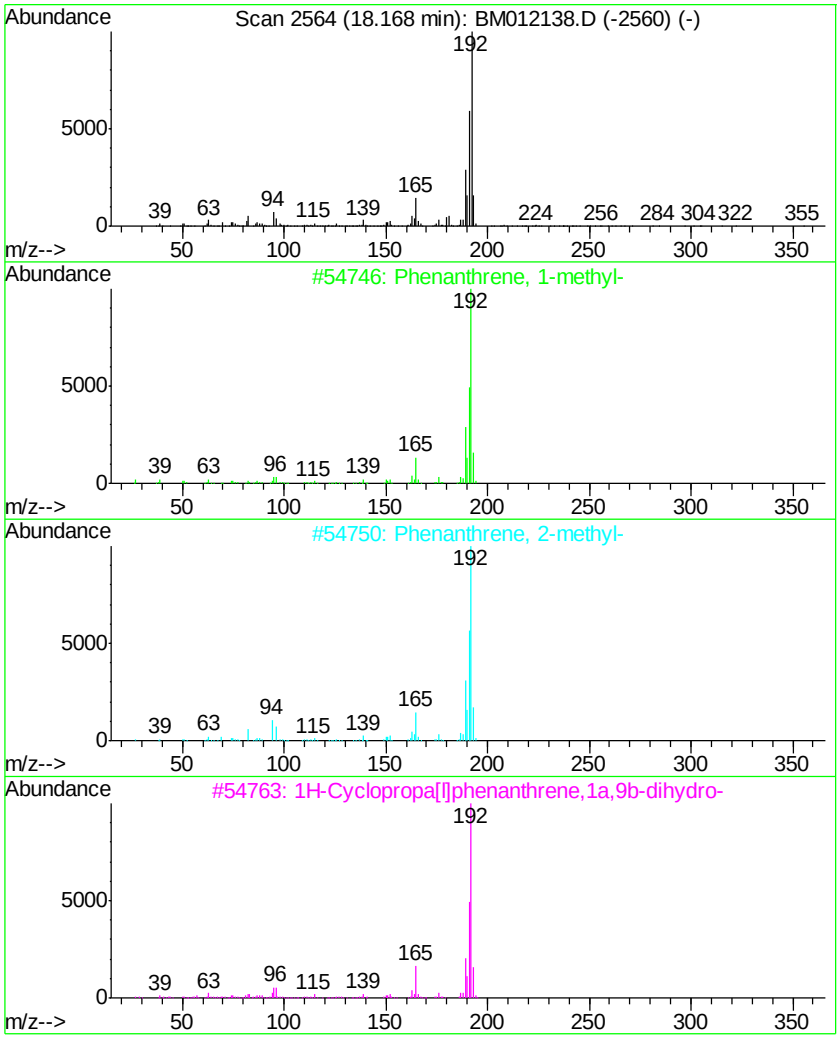
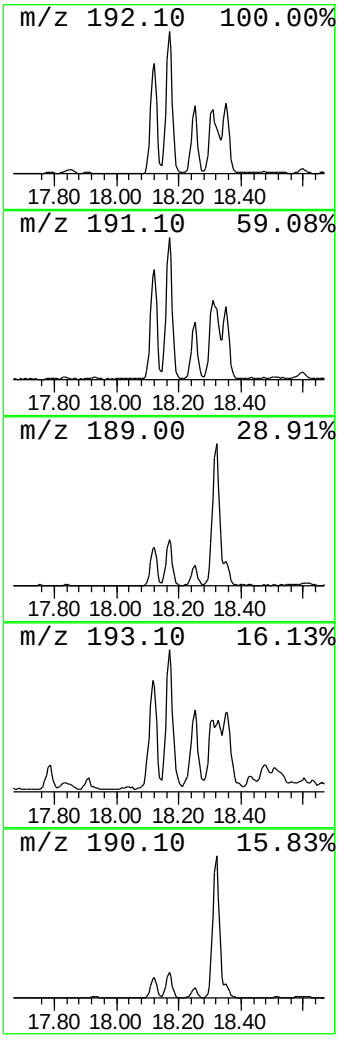
Peak Number 14 Phenanthrene, 1-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.17	17.29 ng/ul	2585980	Phenanthrene-d10	17.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95





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Operator : SJ/JU
Sample : I5533-09DL 10X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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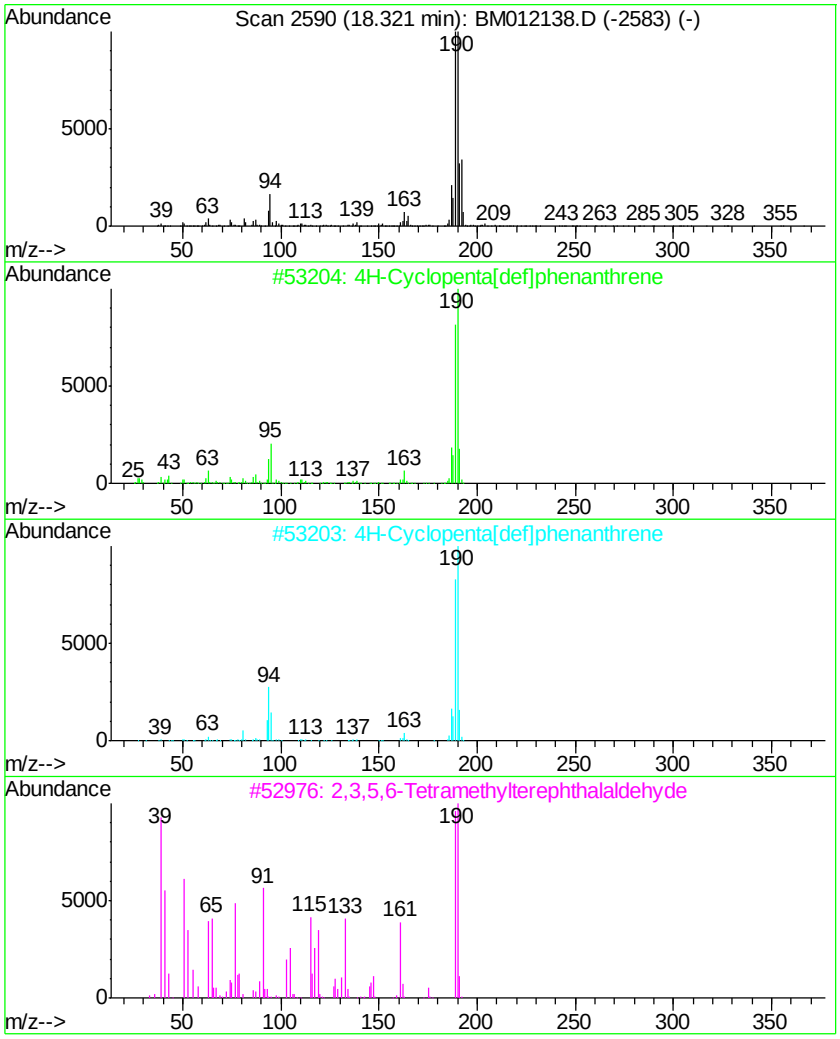
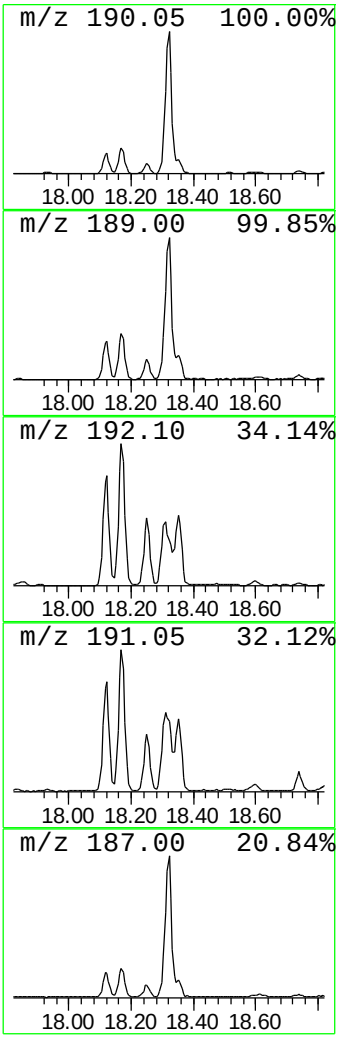
Peak Number 16 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.32	24.04 ng/ul	3596290	Phenanthrene-d10	17.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	76
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	68
3	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	50
5	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	47





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Sample : I5533-09DL 10X
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Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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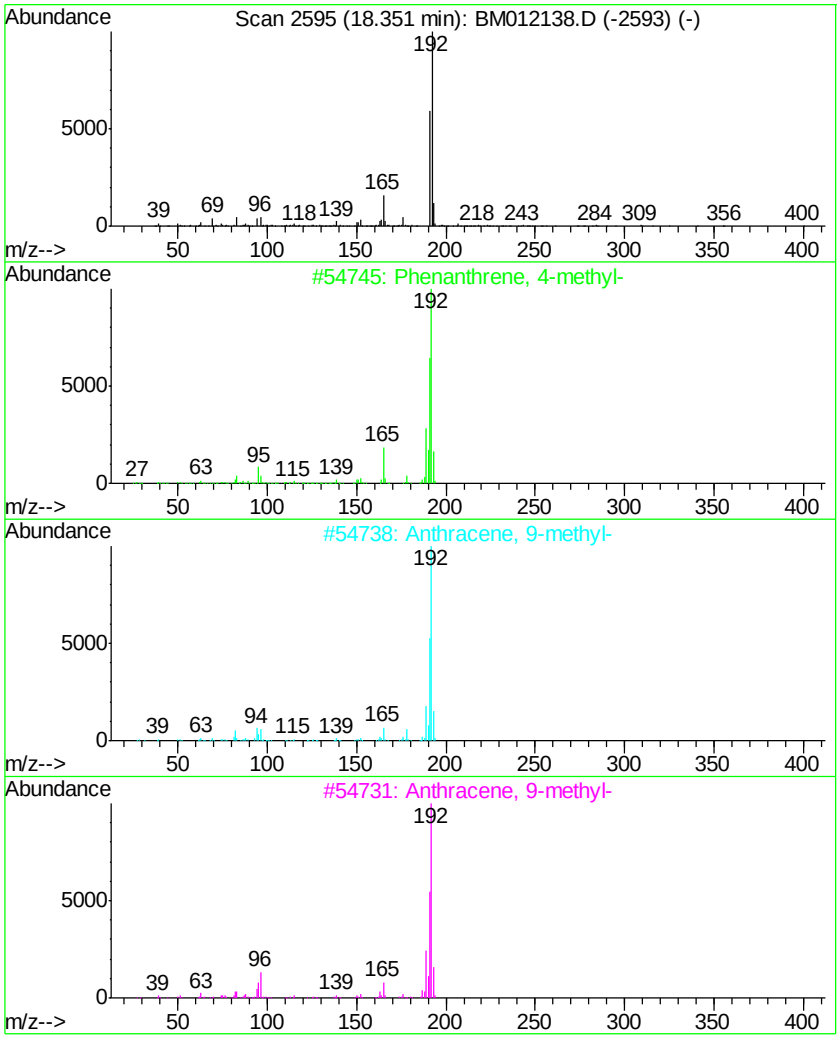
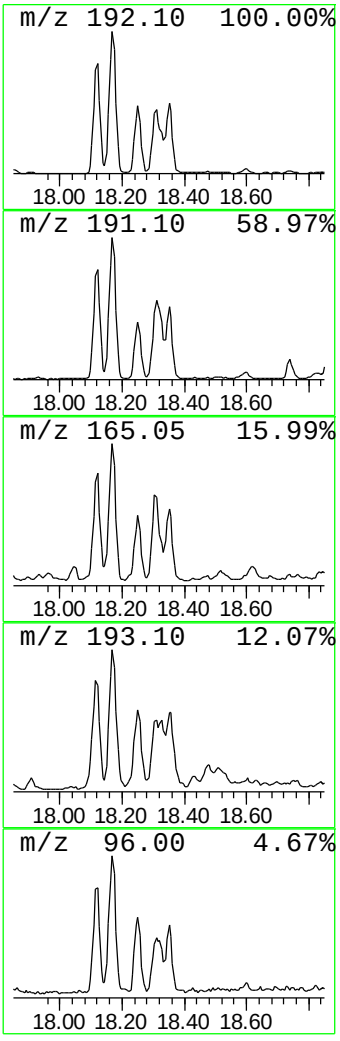
Peak Number 17 Phenanthrene, 4-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.35	6.90 ng/ul	1032410	Phenanthrene-d10	17.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
4	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	91
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90





Library Search Compound Report

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Sample : I5533-09DL 10X
Misc :
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Instrument : BNA_M
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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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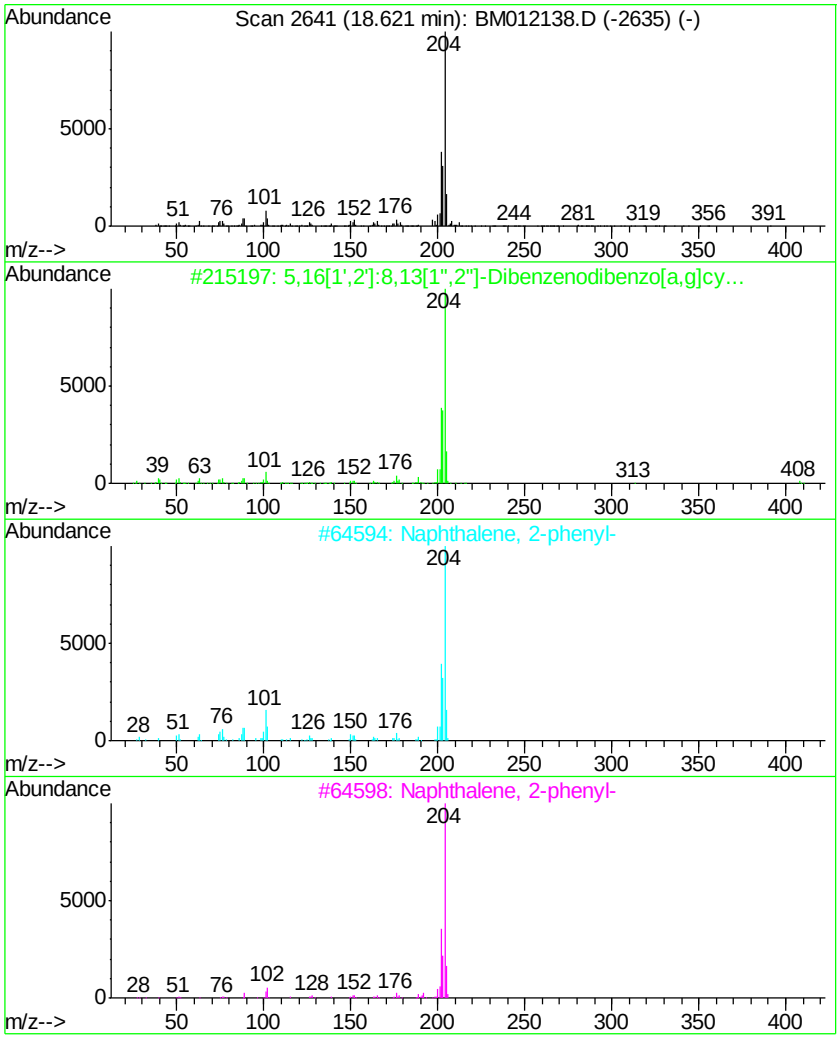
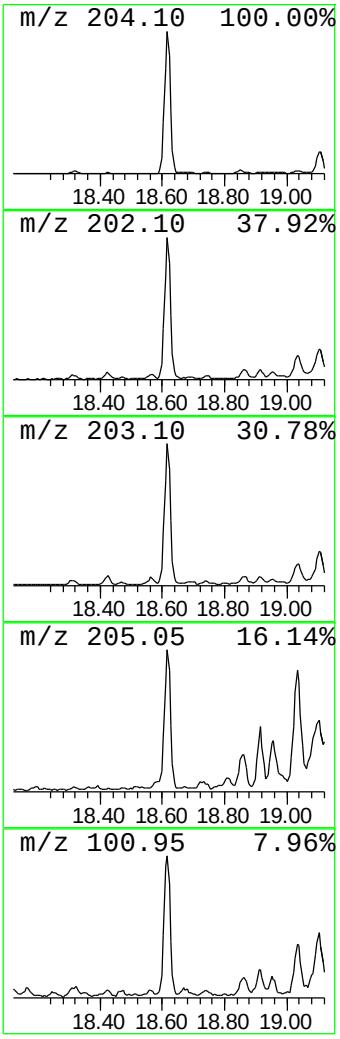
Peak Number 18 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.62	9.07 ng/ul	1356320	Phenanthrene-d10	17.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	83
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	70
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	64





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Misc :
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Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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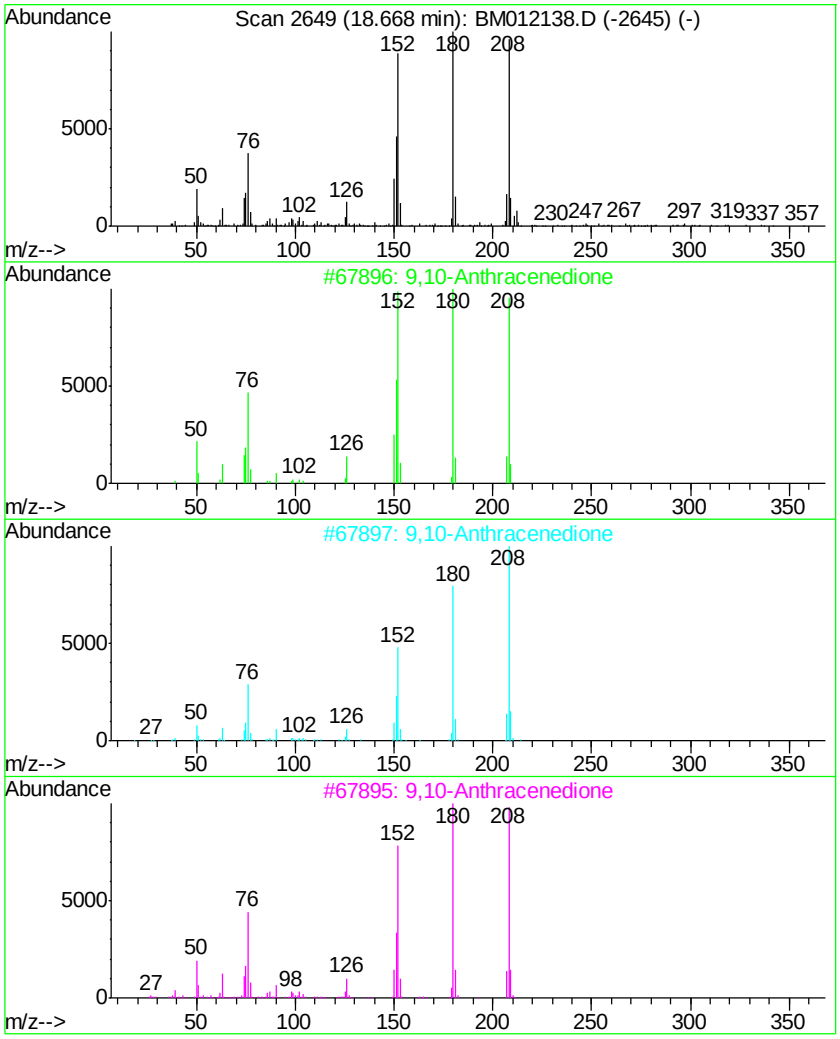
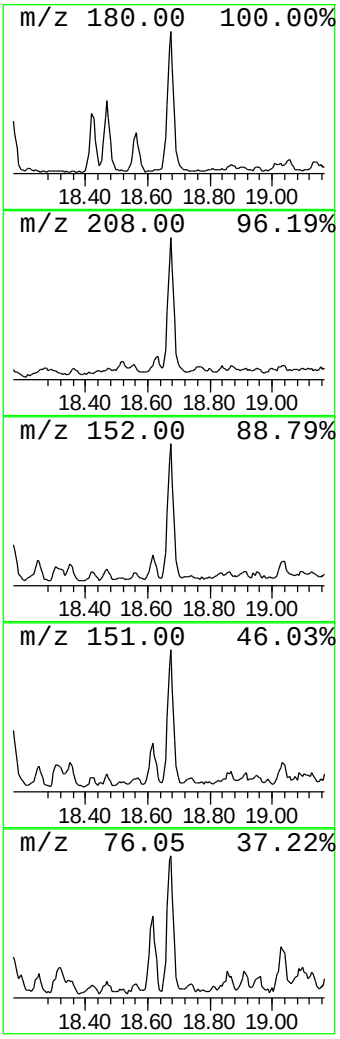
Peak Number 19 9,10-Anthracenedione Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.67	4.20 ng/ul	627985	Phenanthrene-d10	17.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	94
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	91
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	86
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	83





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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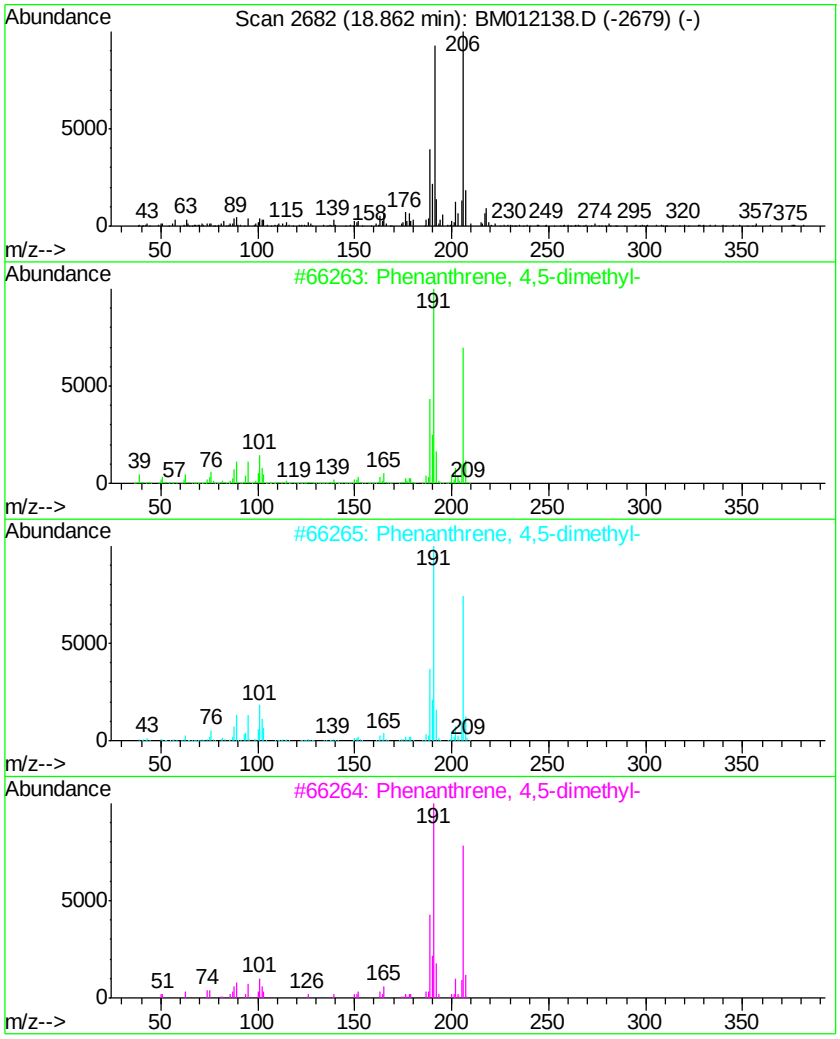
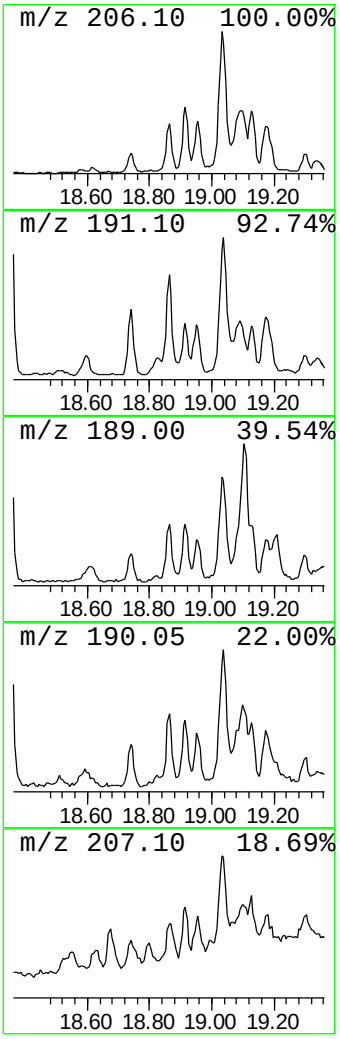
Peak Number 20 Phenanthrene, 4,5-dimethyl- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.86	2.55 ng/ul	381061	Phenanthrene-d10	17.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	94
2	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93
3	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	91
4	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	91
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87





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Sample : I5533-09DL 10X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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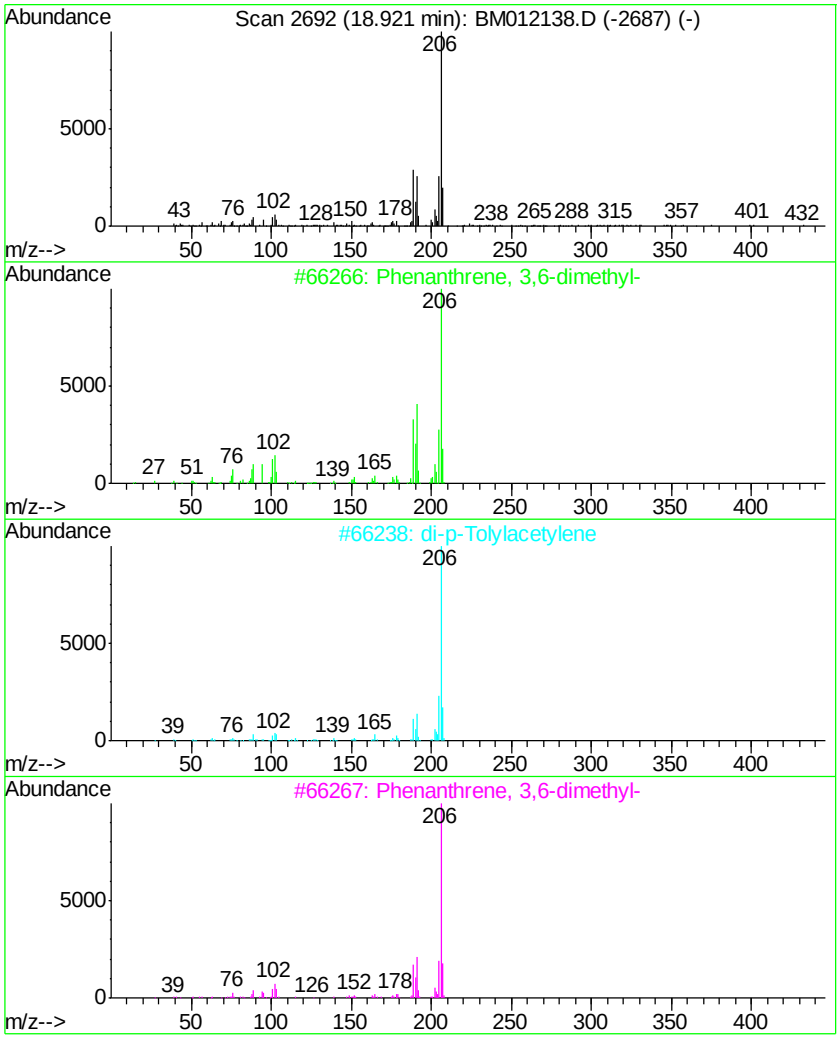
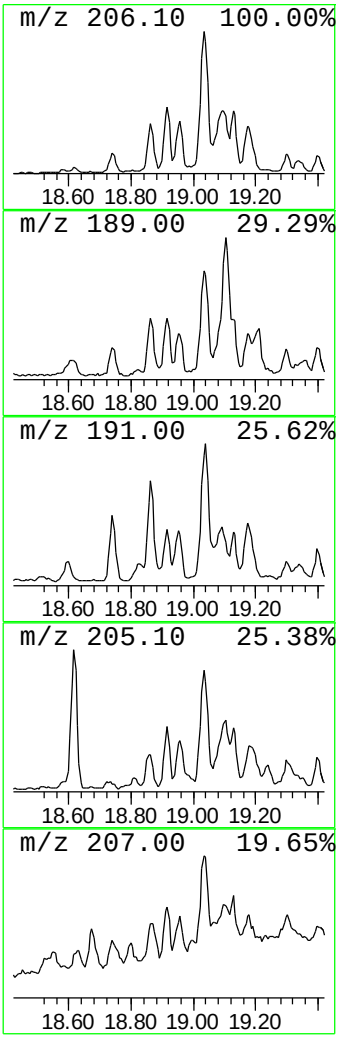
Peak Number 21 Phenanthrene, 3,6-dimethyl- Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.92	2.31 ng/ul	345058	Phenanthrene-d10	17.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	97
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	91
5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	90





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Data File : BM012138.D
Acq On : 13 Oct 2017 15:45
Operator : SJ/JU
Sample : I5533-09DL 10X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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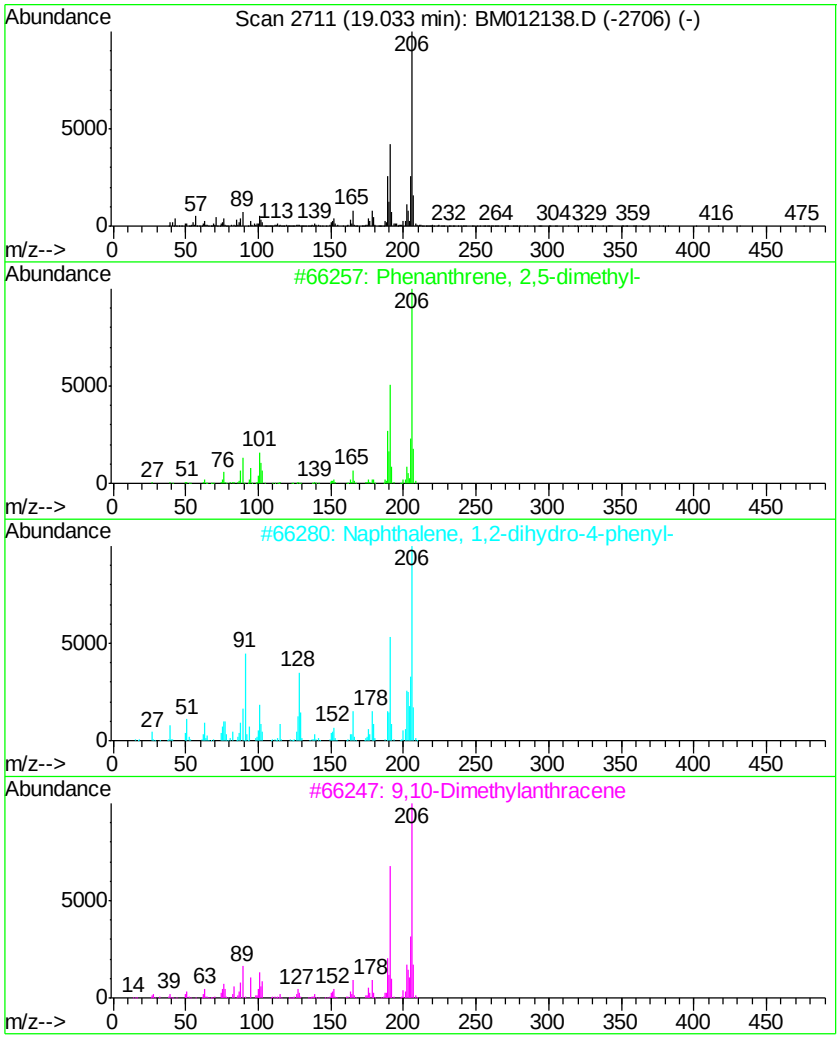
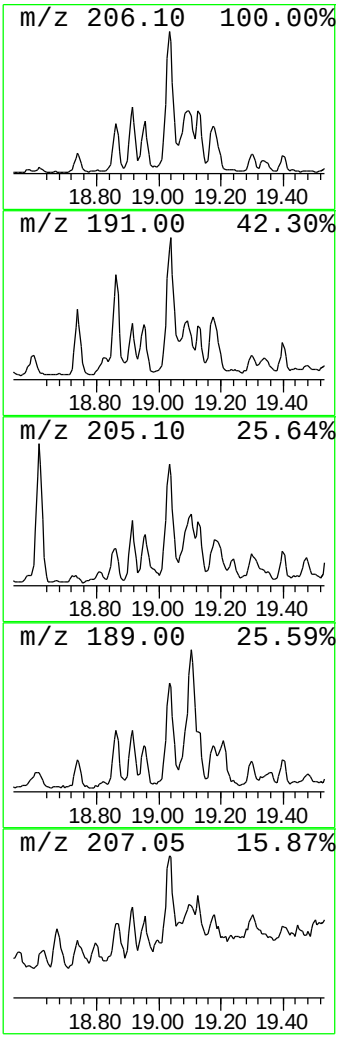
Peak Number 22 Phenanthrene, 2,5-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.03	8.42 ng/ul	1259440	Phenanthrene-d10	17.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	91
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	90
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90





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Acq On : 13 Oct 2017 15:45
Operator : SJ/JU
Sample : I5533-09DL 10X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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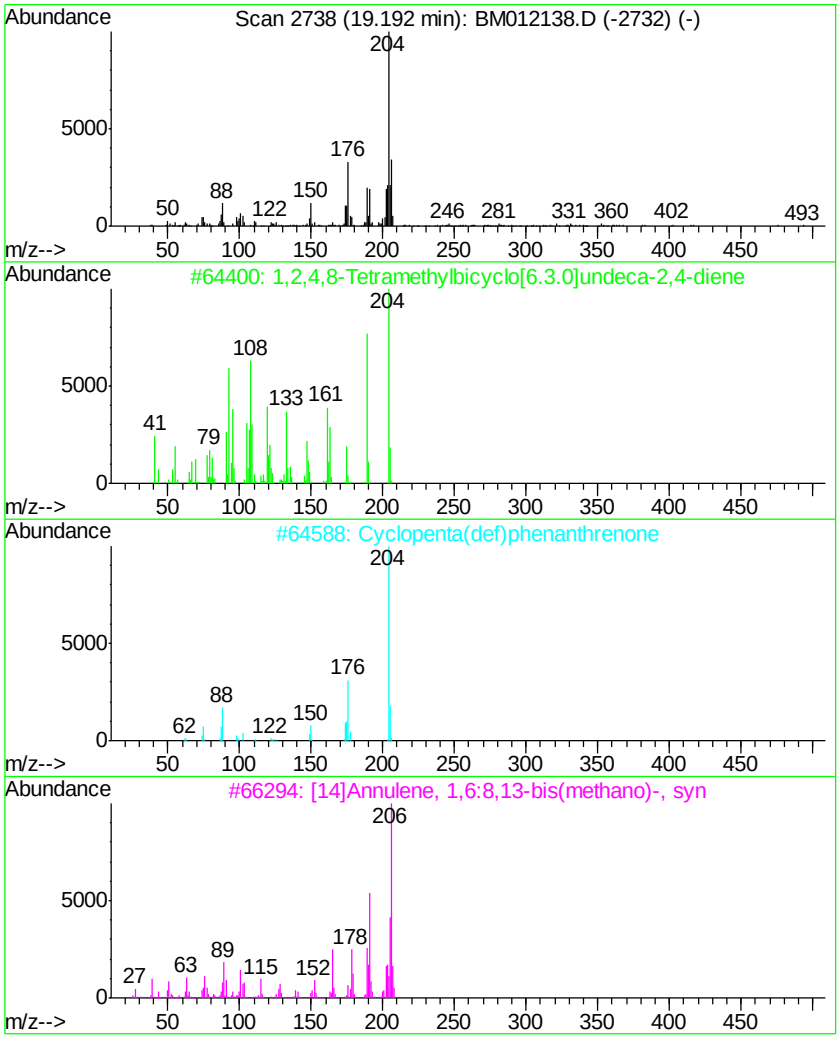
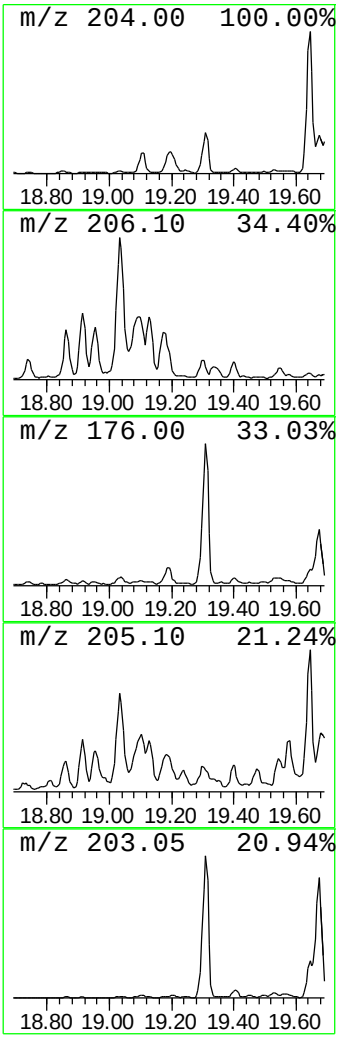
Peak Number 23 1,2,4,8-Tetramethylbicyclo[... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.19	3.90 ng/ul	583177	Phenanthrene-d10	17.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	80
2	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	46
3	[14]Annulene, 1,6:8,13-bis(metha...	206	C16H14	085385-68-8	38
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	35
5	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	30





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Acq On : 13 Oct 2017 15:45
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Sample : I5533-09DL 10X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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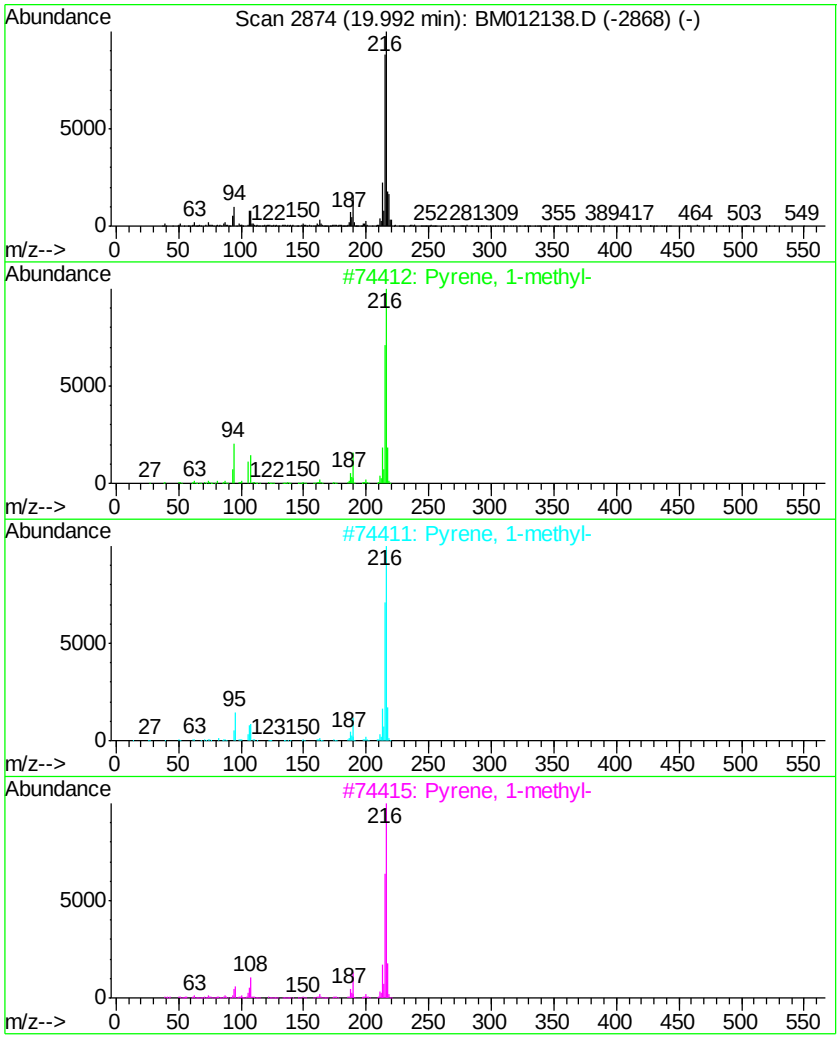
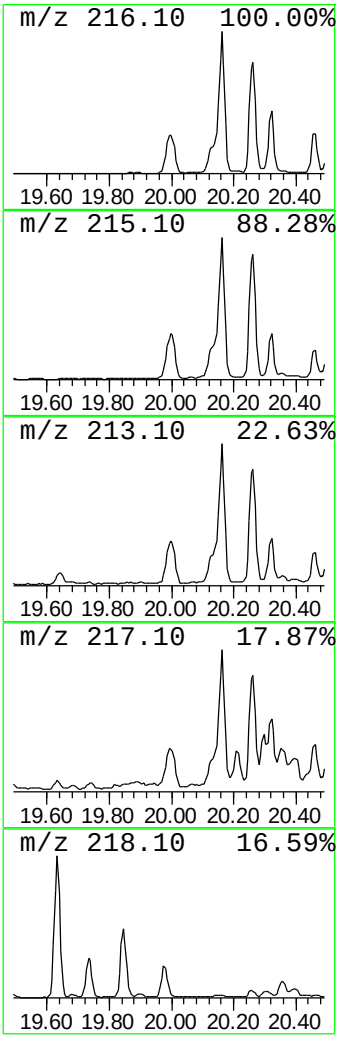
Peak Number 24 Pyrene, 1-methyl- Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.99	2.73 ng/ul	1780560	Chrysene-d12	21.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87





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Data File : BM012138.D
Acq On : 13 Oct 2017 15:45
Operator : SJ/JU
Sample : I5533-09DL 10X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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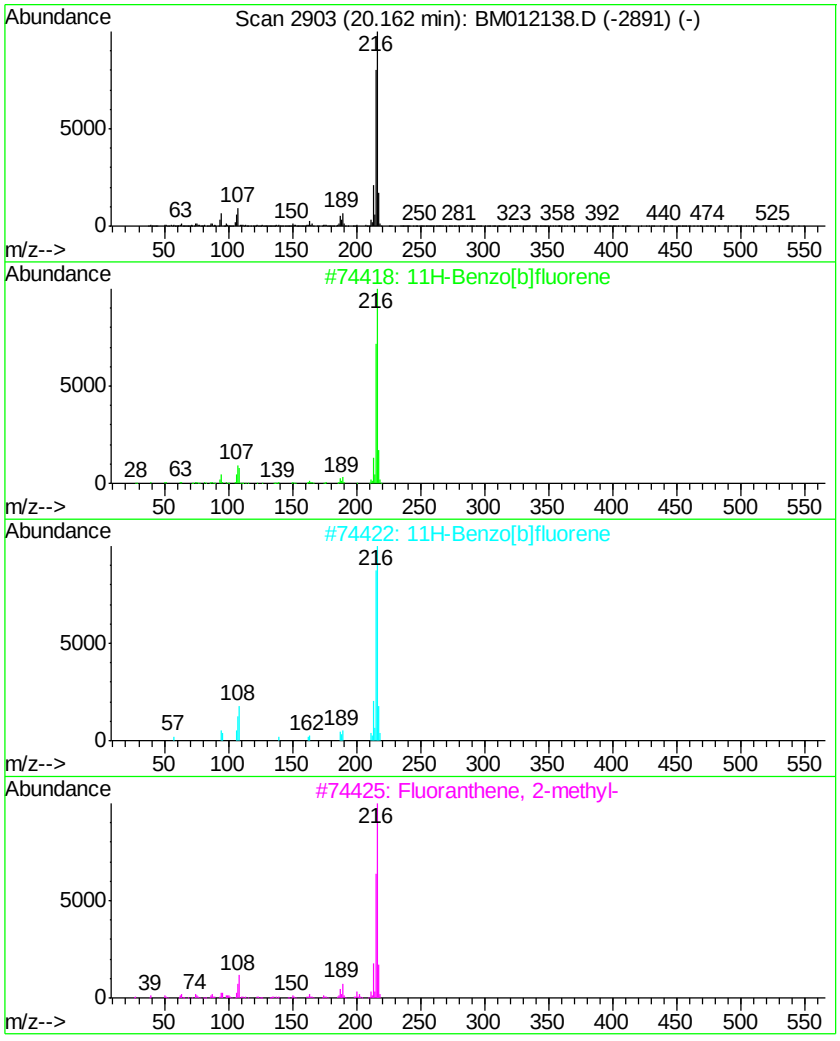
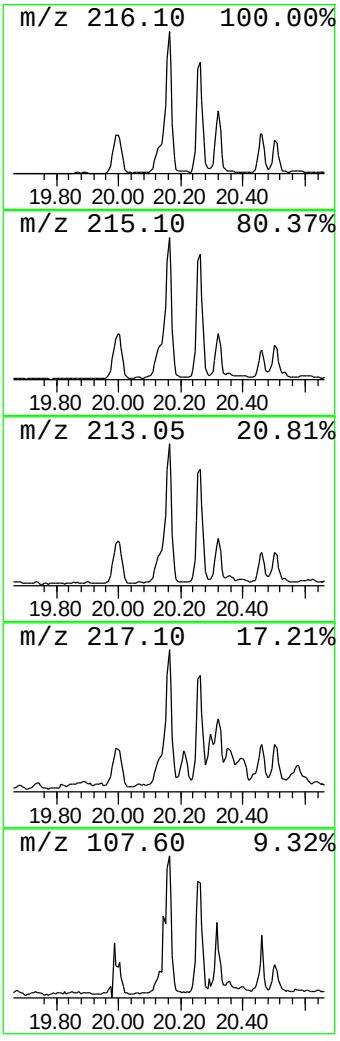
Peak Number 25 11H-Benzo[b]fluorene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.16	6.37 ng/ul	4149880	Chrysene-d12	21.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	97
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91





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Data File : BM012138.D
Acq On : 13 Oct 2017 15:45
Operator : SJ/JU
Sample : I5533-09DL 10X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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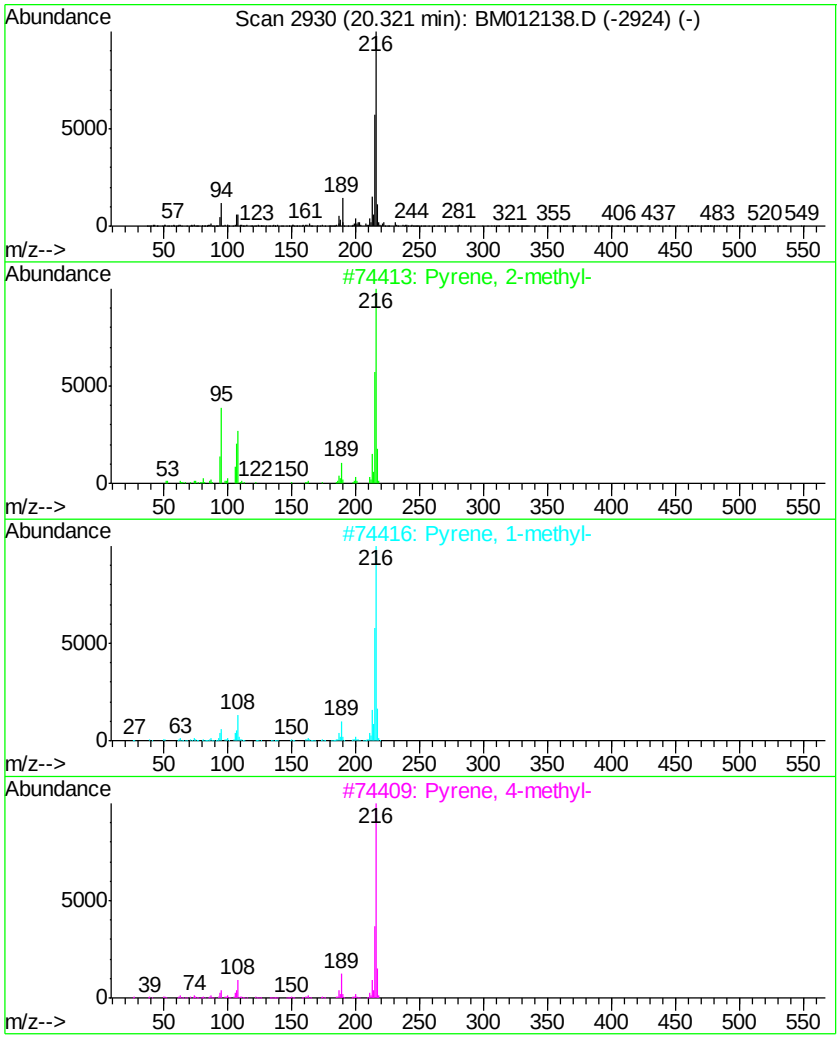
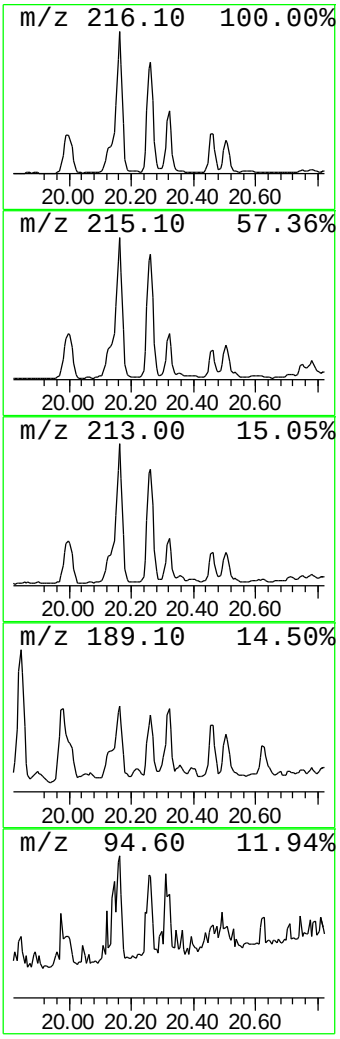
Peak Number 27 Pyrene, 2-methyl- Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.32	2.31 ng/ul	1501880	Chrysene-d12	21.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 2-methyl-	216	C17H12	003442-78-2	91
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
3	Pyrene, 4-methyl-	216	C17H12	003353-12-6	89
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	80
5	Pyrene, 4-methyl-	216	C17H12	003353-12-6	76





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM101217\
Data File : BM012138.D
Acq On : 13 Oct 2017 15:45
Operator : SJ/JU
Sample : I5533-09DL 10X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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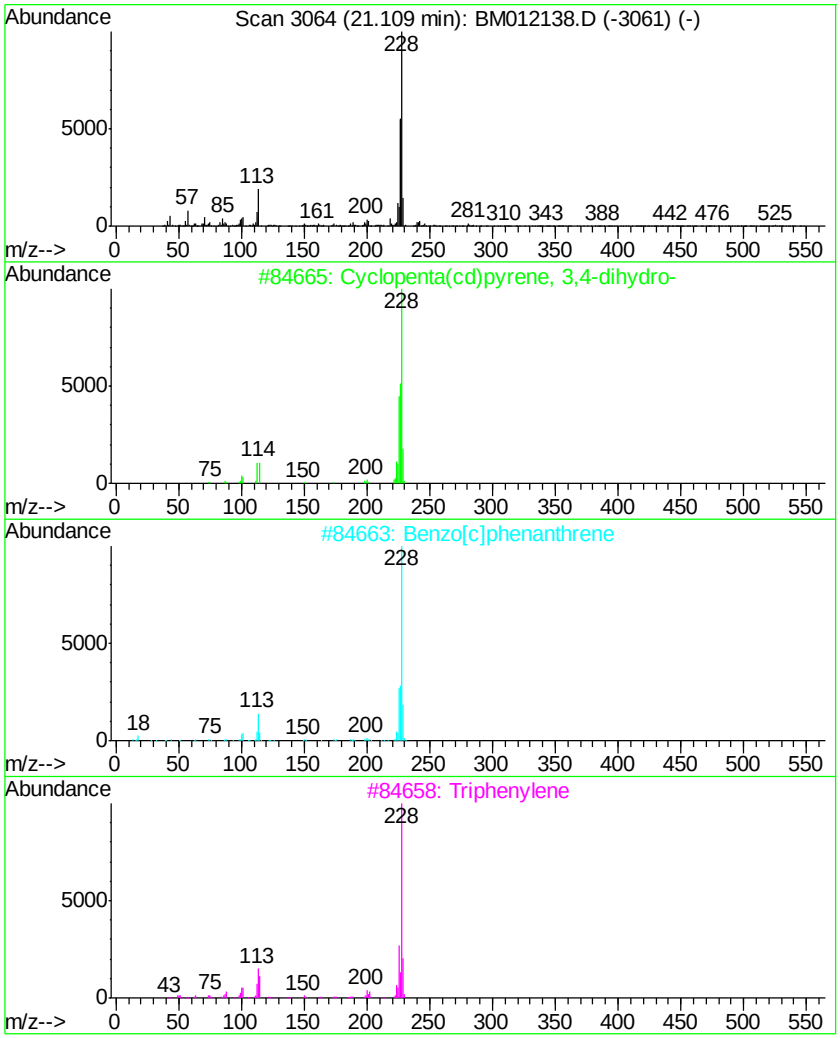
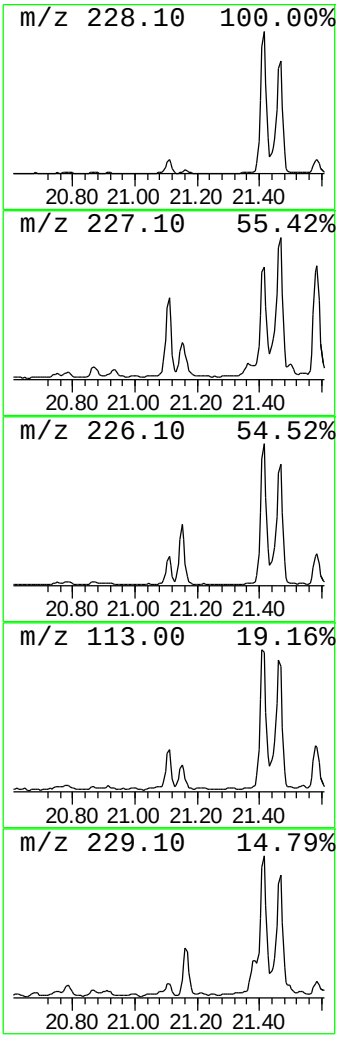
Peak Number 28 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.11	2.02 ng/ul	1313030	Chrysene-d12	21.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	53
2	Benzo[c]phenanthrene	228	C18H12	000195-19-7	52
3	Triphenylene	228	C18H12	000217-59-4	50
4	Triphenylene	228	C18H12	000217-59-4	46
5	Benzo[c]phenanthrene	228	C18H12	000195-19-7	45





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM101217\
Data File : BM012138.D
Acq On : 13 Oct 2017 15:45
Operator : SJ/JU
Sample : I5533-09DL 10X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Naphthalene, 1,6-...	13.67	3.1	ng/ul	396062	3	14.50	2562890	20.0
Naphthalene, 2,6-...	13.82	3.6	ng/ul	460282	3	14.50	2562890	20.0
Diphenylmethane	15.70	2.2	ng/ul	284704	3	14.50	2562890	20.0
Dibenzofuran, 4-m...	15.84	4.6	ng/ul	586274	3	14.50	2562890	20.0
6H-Dibenzo[b,d]-p...	15.99	5.1	ng/ul	764156	4	17.24	2992070	20.0
9H-Fluorene, 1-me...	16.54	5.7	ng/ul	845748	4	17.24	2992070	20.0
2,2-Dimethyl-1-ac...	16.77	2.9	ng/ul	432292	4	17.24	2992070	20.0
Phenol, 4-(2-phen...	16.97	3.9	ng/ul	586167	4	17.24	2992070	20.0
Naphtho[2,1-b]thi...	17.06	7.8	ng/ul	1170340	4	17.24	2992070	20.0
Acridine	17.44	2.9	ng/ul	438774	4	17.24	2992070	20.0
Pyridine, 4-(4-di...	17.83	2.8	ng/ul	421639	4	17.24	2992070	20.0
1H-Indene, 1-phenyl-	18.12	13.3	ng/ul	1990370	4	17.24	2992070	20.0
Phenanthrene, 1-m...	18.17	17.3	ng/ul	2585980	4	17.24	2992070	20.0
4H-Cyclopenta[def...	18.32	24.0	ng/ul	3596290	4	17.24	2992070	20.0
Phenanthrene, 4-m...	18.35	6.9	ng/ul	1032410	4	17.24	2992070	20.0
5,16[1',2']:8,13[...	18.62	9.1	ng/ul	1356320	4	17.24	2992070	20.0
9,10-Anthracenedione	18.67	4.2	ng/ul	627985	4	17.24	2992070	20.0
Phenanthrene, 4,5...	18.86	2.5	ng/ul	381061	4	17.24	2992070	20.0
Phenanthrene, 3,6...	18.92	2.3	ng/ul	345058	4	17.24	2992070	20.0
Phenanthrene, 2,5...	19.03	8.4	ng/ul	1259440	4	17.24	2992070	20.0
1,2,4,8-Tetrameth...	19.19	3.9	ng/ul	583177	4	17.24	2992070	20.0
Pyrene, 1-methyl-	19.99	2.7	ng/ul	1780560	5	21.43	13028300	20.0
11H-Benzo[b]fluorene	20.16	6.4	ng/ul	4149880	5	21.43	13028300	20.0
Pyrene, 2-methyl-	20.32	2.3	ng/ul	1501880	5	21.43	13028300	20.0
Cyclopenta(cd)pyr...	21.11	2.0	ng/ul	1313030	5	21.43	13028300	20.0