LSC Area Percent Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM030218\
Data File : BM014463.D
Acq On : 02 Mar 2018 15:55
Operator : SJ/JU
Sample : J1678-21RE
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Z4RE

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-BM021418.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	9.945	1175	1183	1195	rBV	582411	1148387	1.14%	0.188%
2	13.604	1800	1805	1809	rBV	1234534	1624099	1.62%	0.265%
3	13.874	1845	1851	1854	rBV	1401310	2305671	2.30%	0.377%
4	13.904	1854	1856	1869	rVB	1324843	1777383	1.77%	0.290%
5	14.180	1890	1903	1909	rBV3	773494	1407191	1.40%	0.230%
6	14.251	1909	1915	1922	rVB	1323903	2008530	2.00%	0.328%
7	14.592	1967	1973	1978	rVV	1574133	2334222	2.33%	0.381%
8	15.186	2068	2074	2079	rBV	1621782	2355896	2.35%	0.385%
9	15.245	2079	2084	2093	rVB	3037874	4492926	4.48%	0.734%
10	15.539	2129	2134	2140	rVB	792596	1145643	1.14%	0.187%
11	15.686	2150	2159	2167	rBV	859312	1834033	1.83%	0.300%
12	16.257	2245	2256	2260	rBV4	708797	1532524	1.53%	0.250%
13	16.621	2312	2318	2323	rVB	1026338	1475146	1.47%	0.241%
14	16.680	2323	2328	2335	rBV3	511045	1102799	1.10%	0.180%
15	16.768	2338	2343	2352	rVB	2183122	3169965	3.16%	0.518%
16	16.957	2368	2375	2377	rBV	754420	1300980	1.30%	0.213%
17	17.021	2377	2386	2390	rVV2	44288816	73692805	73.45%	12.039%
18	17.062	2390	2393	2395	rVV	2397073	3105371	3.10%	0.507%
19	17.098	2395	2399	2404	rVV	10574312	13807426	13.76%	2.256%
20	17.157	2404	2409	2413	rVB	825749	1297432	1.29%	0.212%
21	17.374	2442	2446	2454	rVB	3634900	5332022	5.31%	0.871%
22	17.468	2459	2462	2470	rVV3	649968	1046903	1.04%	0.171%
23	17.551	2470	2476	2482	rVB3	493944	1140584	1.14%	0.186%
24	17.833	2518	2524	2527	rBV	3551045	4979677	4.96%	0.814%
25	17.886	2527	2533	2538	rVB	5233604	7641057	7.62%	1.248%
26	17.962	2541	2546	2551	rVB	1783224	2635074	2.63%	0.430%
27	18.033	2551	2558	2561	rBV2	5847167	10071172	10.04%	1.645%
28	18.062	2561	2563	2572	rVB	2319378	2969903	2.96%	0.485%
29	18.333	2605	2609	2617	rVB	2917738	4051271	4.04%	0.662%
30	18.409	2617	2622	2627	rBV	1539983	2161115	2.15%	0.353%
31	18.580	2645	2651	2657	rBV3	799593	1424290	1.42%	0.233%
32	18.762	2676	2682	2686	rBV	1572767	2804135	2.80%	0.458%
33	18.933	2702	2711	2717	rVB3	1093495	2522015	2.51%	0.412%
34	19.068	2722	2734	2737	rBV2	51879250	100326649	100.00%	16.390%

LSC Area Percent Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM030218\
Data File : BM014463.D
Acq On : 02 Mar 2018 15:55
Operator : SJ/JU
Sample : J1678-21RE
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Z4RE

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-BM021418.M
Title : SVOA CALIBRATION

35	19.145	2742	2747	2751	rVV2	901169	1683465	1.68%	0.275%
36	19.274	2765	2769	2774	rVV	2192697	3325705	3.31%	0.543%
37	19.433	2782	2796	2799	rVV4	42656618	92639066	92.34%	15.134%
38	19.474	2799	2803	2810	rVB2	2107369	3189486	3.18%	0.521%
39	19.580	2817	2821	2827	rVB	2446977	3233013	3.22%	0.528%
40	19.656	2829	2834	2839	rVB	1636347	2517108	2.51%	0.411%
41	19.739	2840	2848	2853	rBV2	2216748	5710197	5.69%	0.933%
42	19.868	2864	2870	2871	rBV2	1471225	2387679	2.38%	0.390%
43	19.909	2872	2877	2881	rVB	6143677	8571963	8.54%	1.400%
44	20.003	2888	2893	2897	rBV	4397580	5369837	5.35%	0.877%
45	20.062	2897	2903	2907	rVB2	2793759	5052482	5.04%	0.825%
46	20.203	2923	2927	2930	rVV	1290511	1653490	1.65%	0.270%
47	20.245	2930	2934	2938	rVV2	1509182	2026764	2.02%	0.331%
48	20.662	3001	3005	3009	rBV	2300657	2887339	2.88%	0.472%
49	20.821	3028	3032	3035	rBV	3605267	4565761	4.55%	0.746%
50	20.856	3035	3038	3043	rVV	3512735	5456917	5.44%	0.891%
51	20.903	3043	3046	3054	rVV3	2960135	5743518	5.72%	0.938%
52	20.974	3054	3058	3065	rVB	2484143	3515825	3.50%	0.574%
53	21.180	3085	3093	3097	rBV2	24642654	43267296	43.13%	7.068%
54	21.233	3097	3102	3106	rVB	21680352	27790921	27.70%	4.540%
55	21.339	3116	3120	3123	rVB	2470932	2883718	2.87%	0.471%
56	21.721	3179	3185	3189	rVV2	3367474	5778855	5.76%	0.944%
57	21.921	3215	3219	3223	rBV3	1524807	2660343	2.65%	0.435%
58	22.215	3266	3269	3279	rVB4	1225985	2760011	2.75%	0.451%
59	22.756	3351	3361	3364	rBV	13523473	34330166	34.22%	5.608%
60	22.897	3381	3385	3390	rVB	2691843	3680262	3.67%	0.601%
61	23.215	3431	3439	3443	rBV	6486517	13811367	13.77%	2.256%
62	23.315	3449	3456	3462	rVB	12133409	24206149	24.13%	3.954%
63	23.438	3472	3477	3486	rVB	3466730	6496495	6.48%	1.061%
64	25.627	3840	3849	3855	rVB2	4329848	12902140	12.86%	2.108%

Sum of corrected areas: 612121634

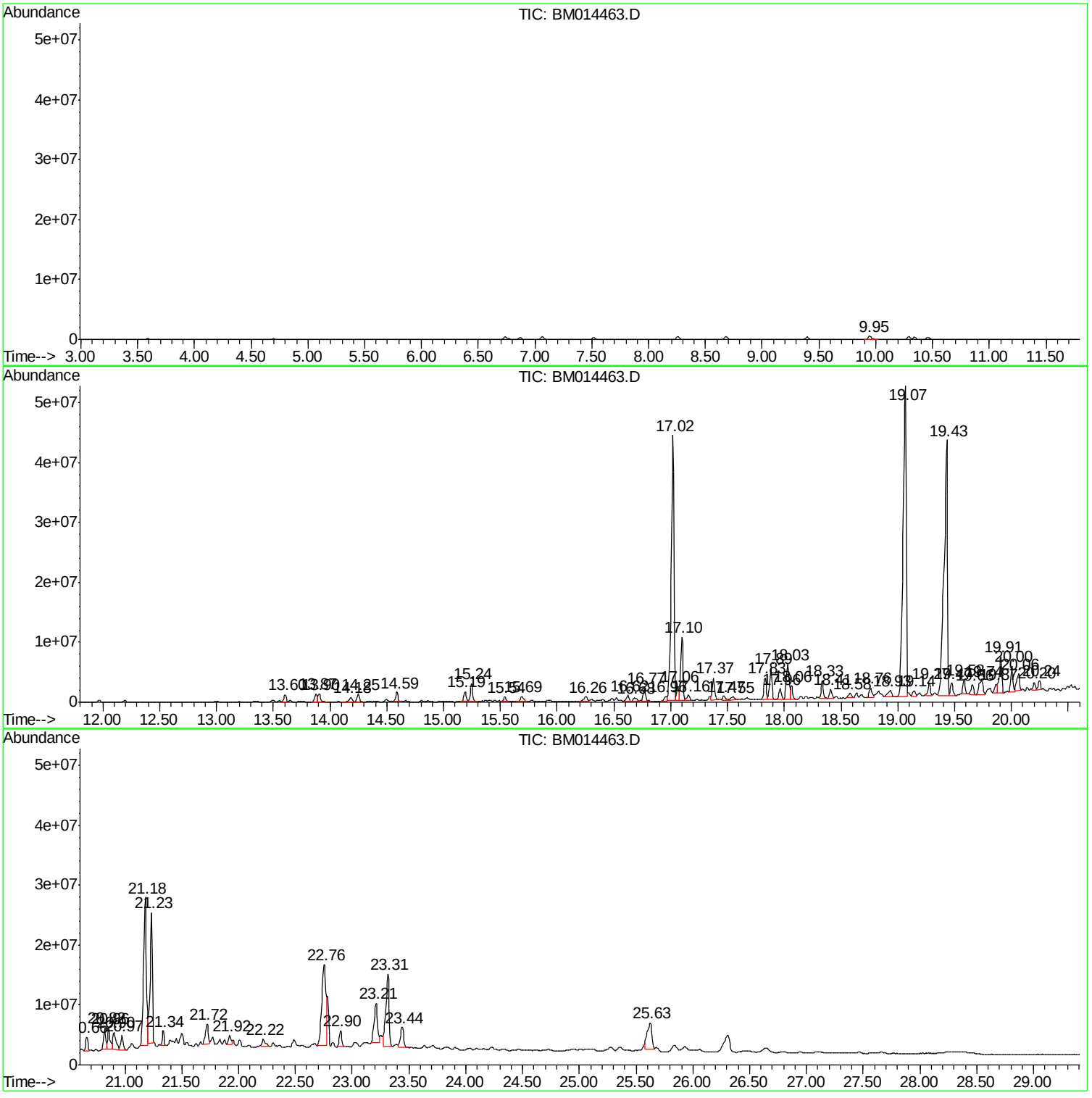
LSC Report - Integrated Chromatogram

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM030218\
Data File : BM014463.D
Acq On : 02 Mar 2018 15:55
Operator : SJ/JU
Sample : J1678-21RE
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Z4RE

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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



Library Search Compound Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM030218\
Data File : BM014463.D
Acq On : 02 Mar 2018 15:55
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Quant Title : SVOA CALIBRATION

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

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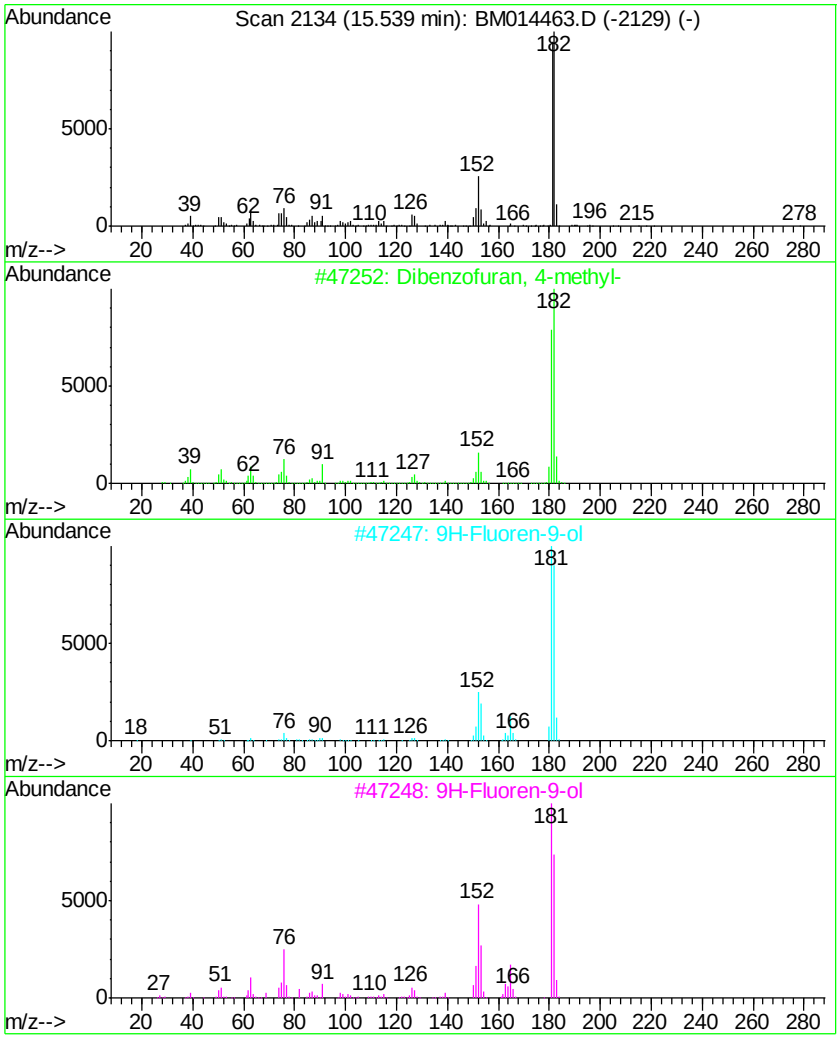
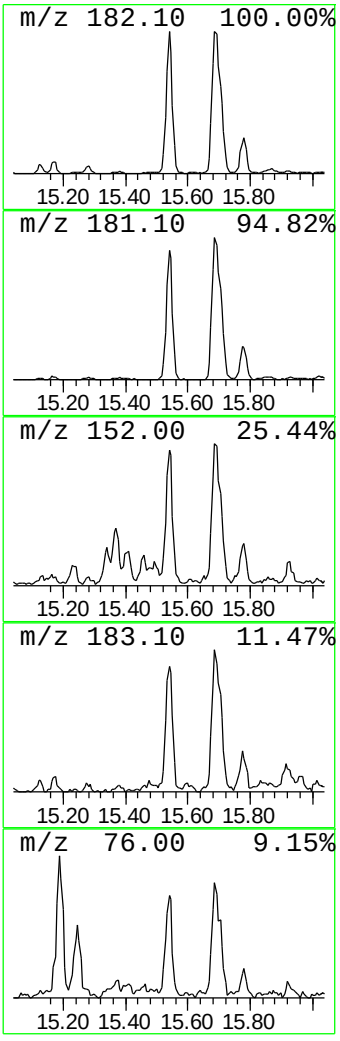
Peak Number 1 Dibenzofuran, 4-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.54	16.28 ng/ul	1145640	Acenaphthene-d10	14.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	91
2	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	86
3	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	86
4	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	81
5	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	78





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Data File : BM014463.D
Acq On : 02 Mar 2018 15:55
Operator : SJ/JU
Sample : J1678-21RE
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Z4RE

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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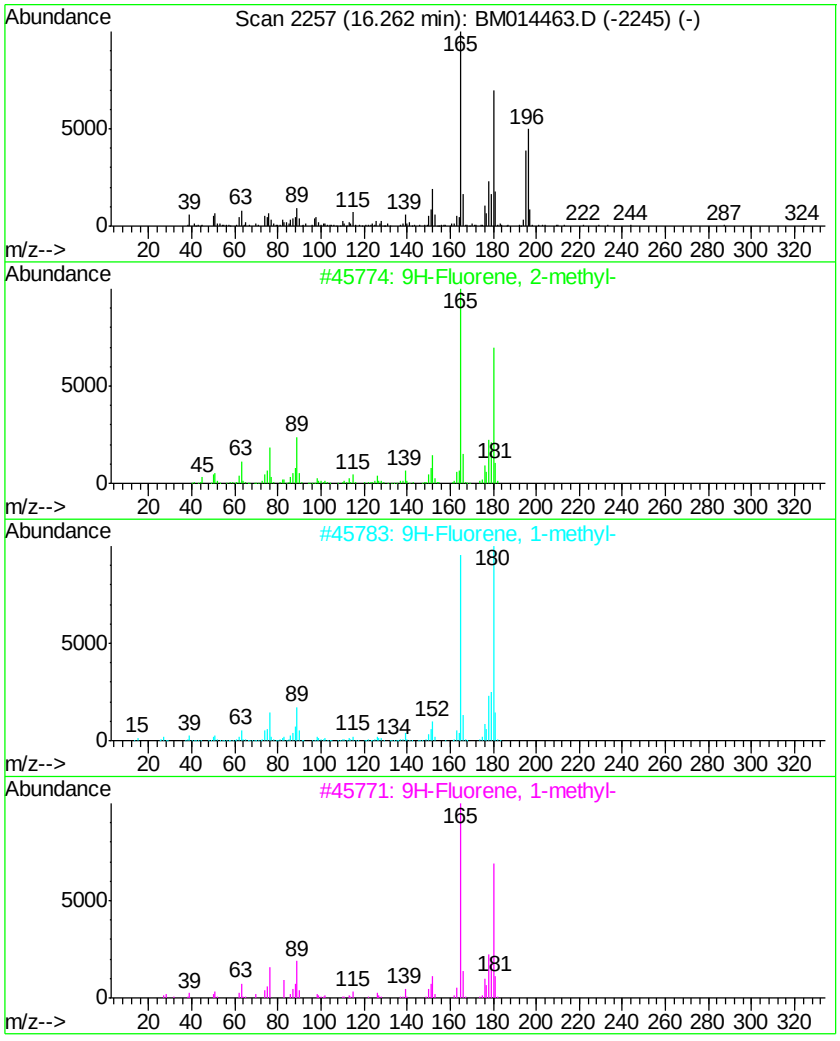
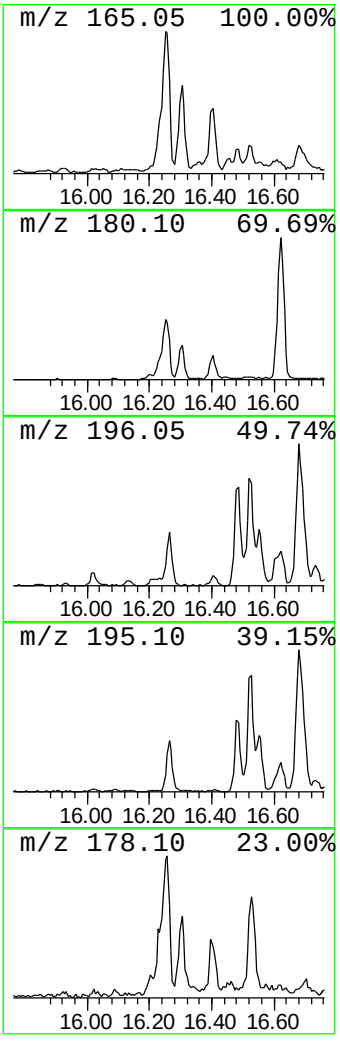
Peak Number 3 9H-Fluorene, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.26	23.56 ng/ul	1532520	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	95
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	94
3	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	93
4	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	93
5	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	78





Library Search Compound Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM030218\
Data File : BM014463.D
Acq On : 02 Mar 2018 15:55
Operator : SJ/JU
Sample : J1678-21RE
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Z4RE

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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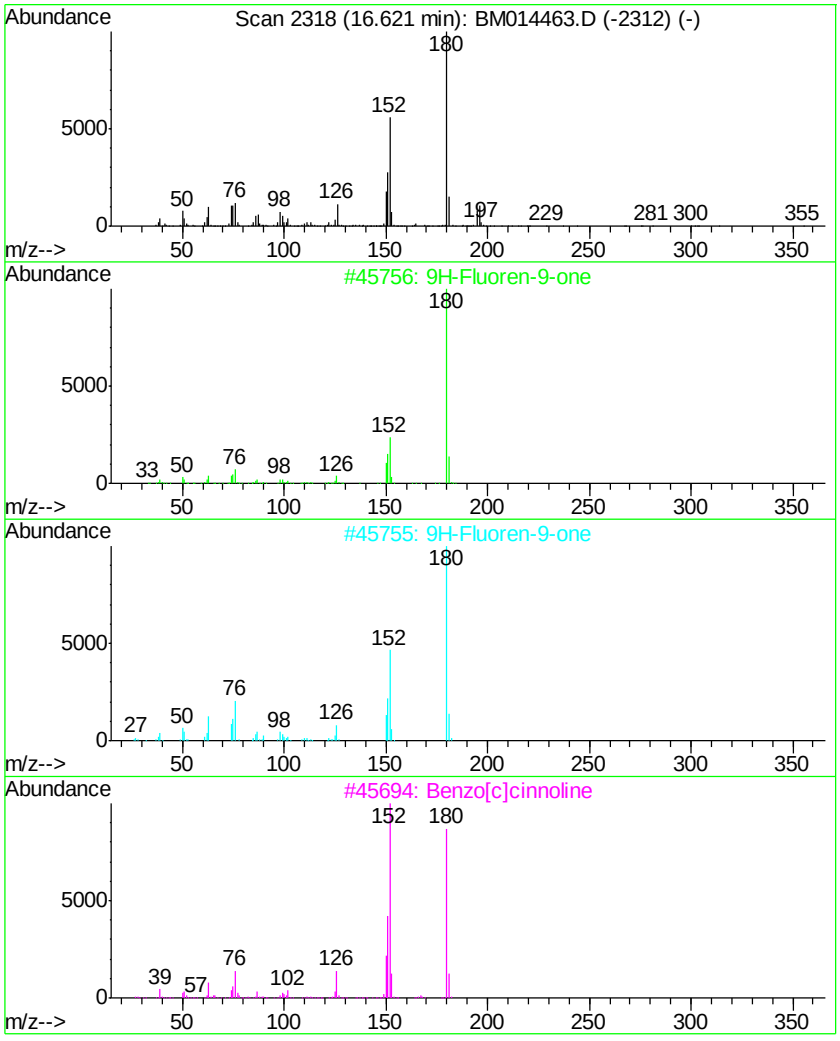
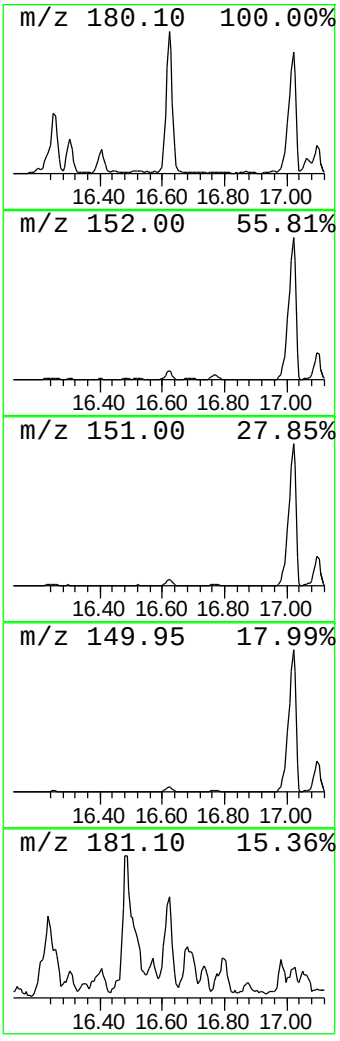
Peak Number 4 9H-Fluoren-9-one Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.62	22.68 ng/ul	1475150	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	96
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	91
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	90
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	90
5	Diphenic anhydride	224	C14H8O3	006050-13-1	83





Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM030218\
Data File : BM014463.D
Acq On : 02 Mar 2018 15:55
Operator : SJ/JU
Sample : J1678-21RE
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Z4RE

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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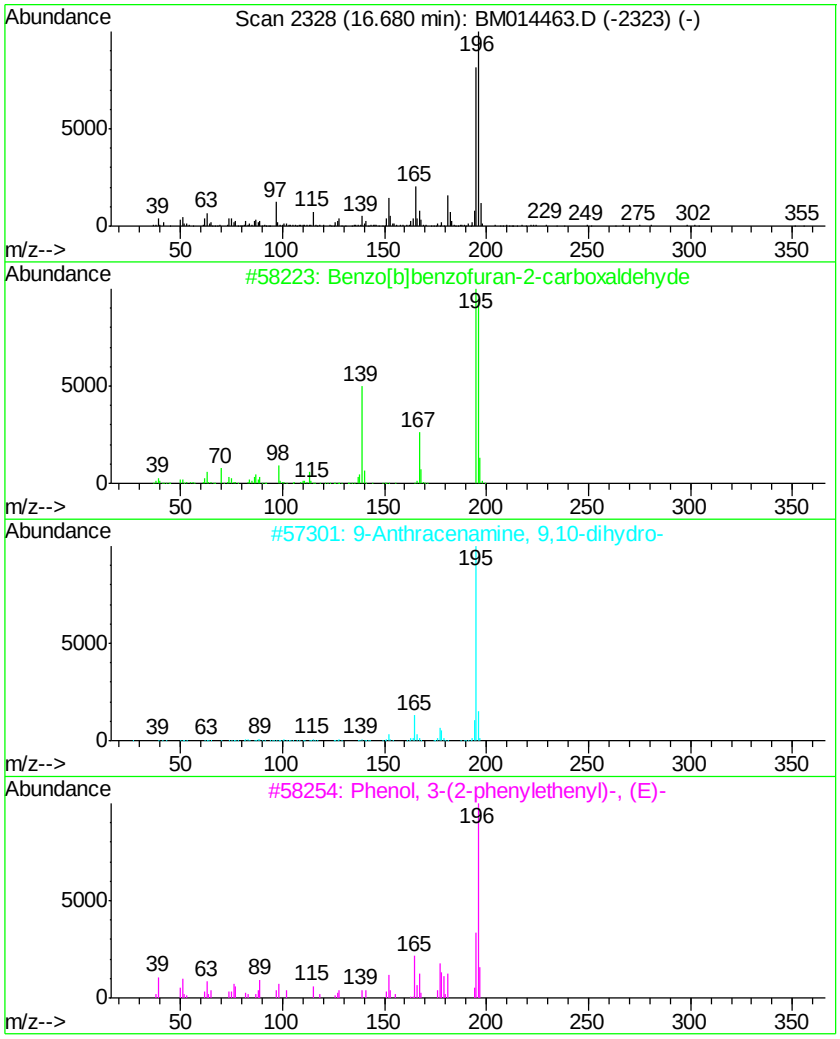
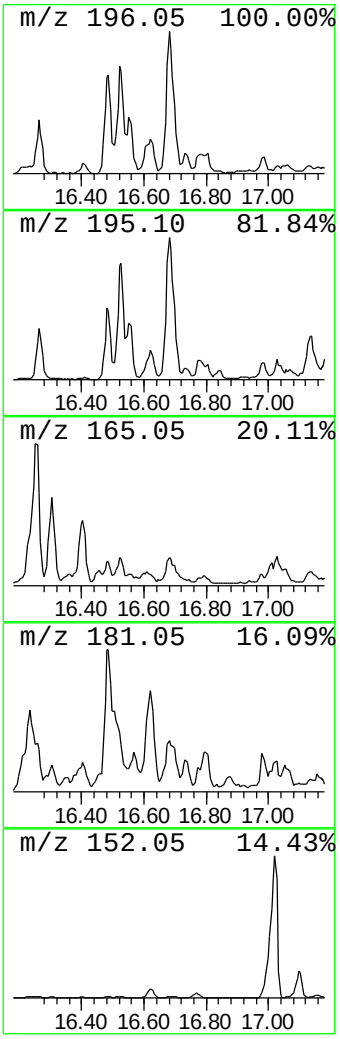
Peak Number 5 Benzo[b]benzofuran-2-carbox... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.68	16.95 ng/ul	1102800	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]benzofuran-2-carboxaldehyde	196	C13H8O2	1000351-56-0	68
2	9-Anthracenamine, 9,10-dihydro-	195	C14H13N	097825-91-7	49
3	Phenol, 3-(2-phenylethenyl)-, (E)-	196	C14H12O	017861-18-6	47
4	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	43
5	Naphtho[2,1-b]furan, 1,2-dimethyl-	196	C14H12O	129812-23-3	43





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Data File : BM014463.D
Acq On : 02 Mar 2018 15:55
Operator : SJ/JU
Sample : J1678-21RE
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Z4RE

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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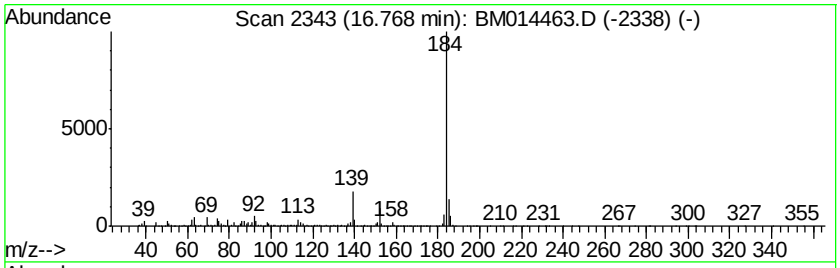
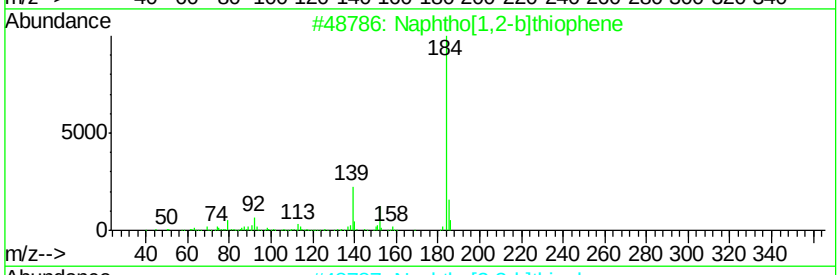
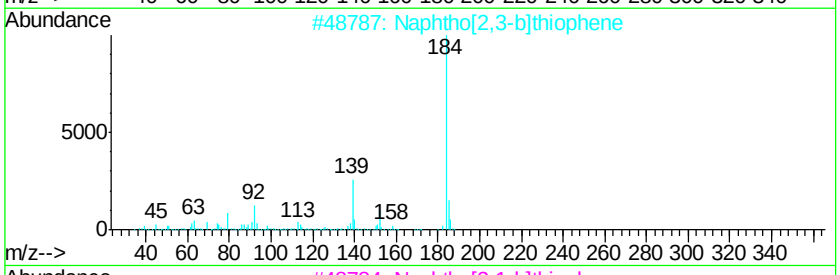
Peak Number 6 Naphtho[1,2-b]thiophene Concentration Rank 5

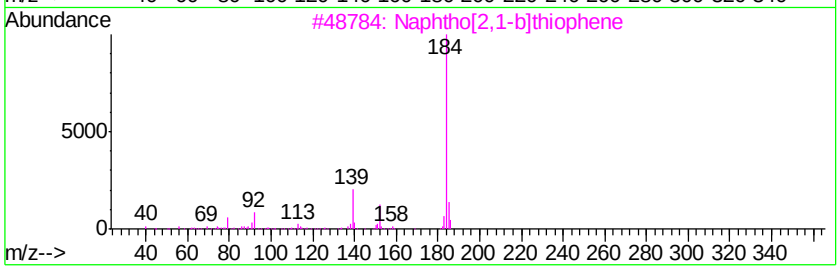
R.T.	EstConc	Area	Relative to ISTD	R.T.
16.77	48.73 ng/ul	3169970	Phenanthrene-d10	16.96

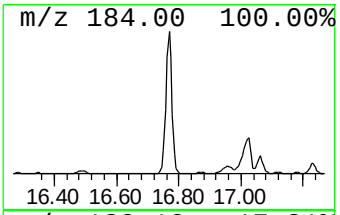
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	97
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
3	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
4	Dibenzothiophene	184	C12H8S	000132-65-0	94
5	Dibenzothiophene	184	C12H8S	000132-65-0	94

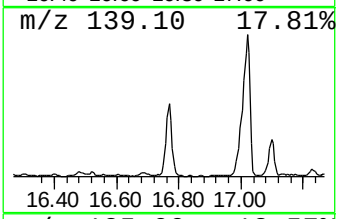


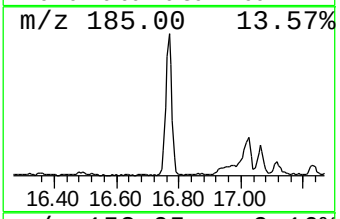


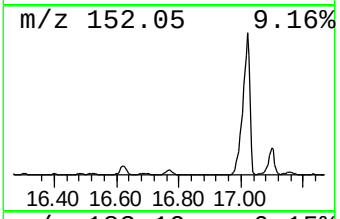


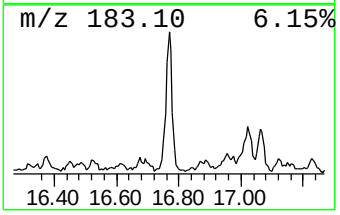












Library Search Compound Report

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Data File : BM014463.D
Acq On : 02 Mar 2018 15:55
Operator : SJ/JU
Sample : J1678-21RE
Misc :
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Instrument : BNA_M
ClientSampleId : BE5Z4RE

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

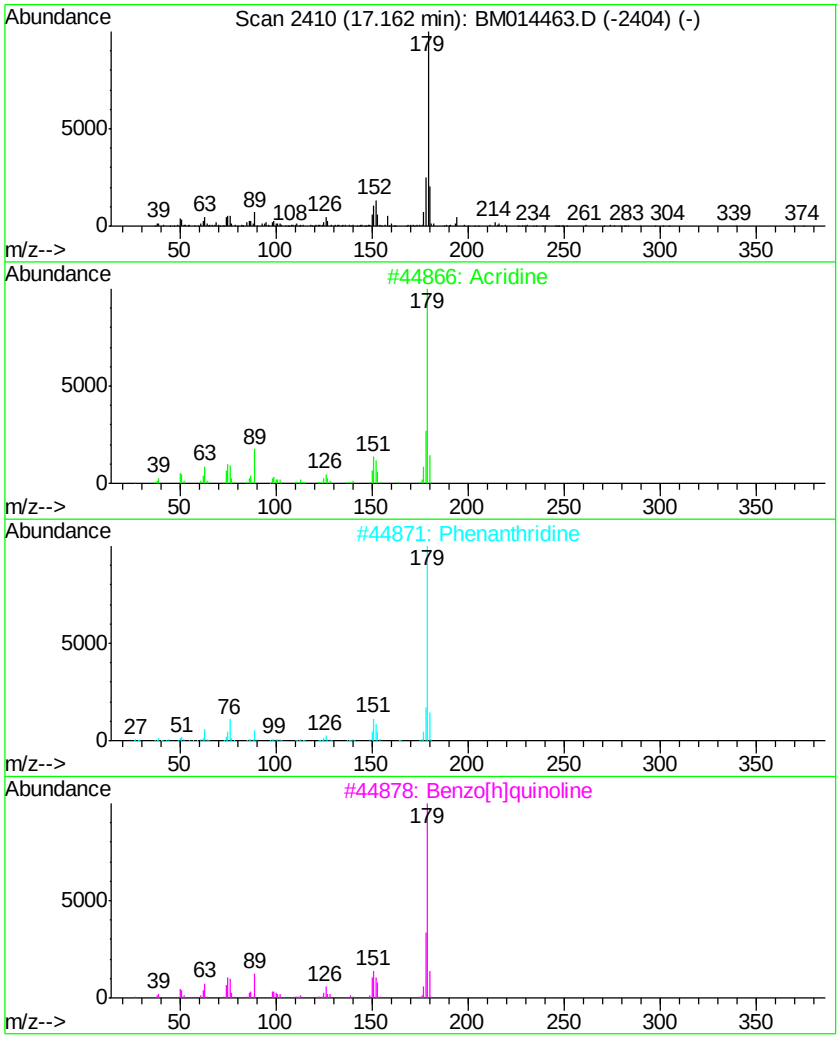
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

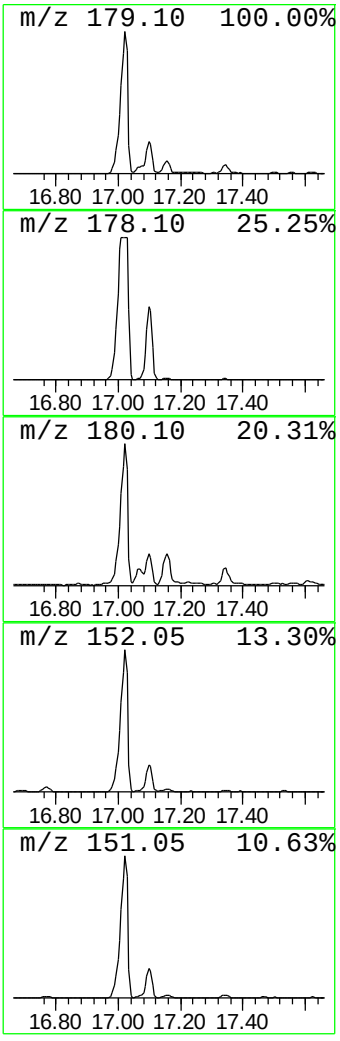
****

Peak Number 7 Acridine Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.16	19.95 ng/ul	1297430	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acridine	179	C13H9N	000260-94-6	93
2	Phenanthridine	179	C13H9N	000229-87-8	93
3	Benzo[h]quinoline	179	C13H9N	000230-27-3	93
4	Phenanthridine	179	C13H9N	000229-87-8	90
5	Phenanthridine	179	C13H9N	000229-87-8	90





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Sample : J1678-21RE
Misc :
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Instrument : BNA_M
ClientSampleId : BE5Z4RE

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Quant Title : SVOA CALIBRATION

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

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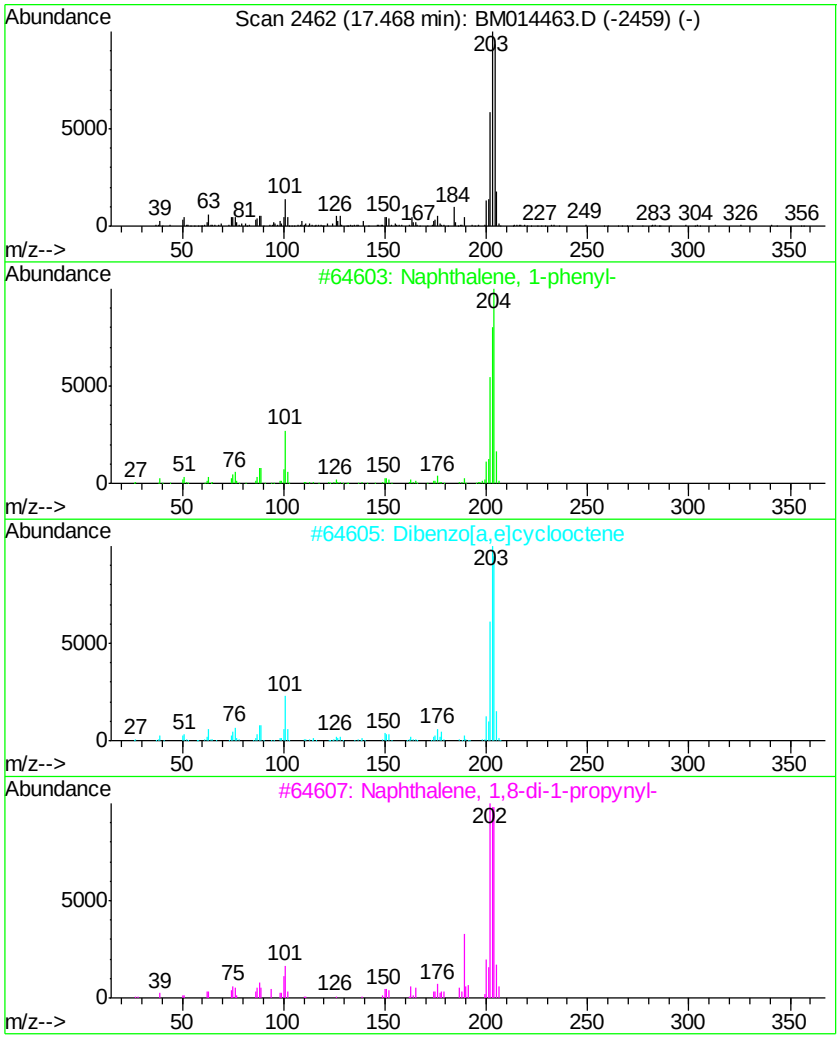
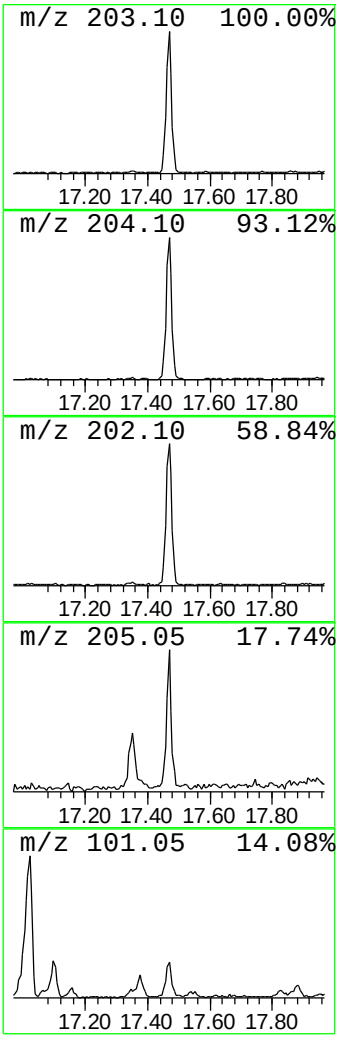
Peak Number 8 Naphthalene, 1-phenyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.47	16.09 ng/ul	1046900	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	93
2	Dibenzo[a,e]cyclooctene	204	C16H12	000262-89-5	89
3	Naphthalene, 1,8-di-1-propynyl-	204	C16H12	022360-77-6	86
4	5H-Dibenzo[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	78
5	1H-Indene, 1-(phenylmethylene)-	204	C16H12	005394-86-5	76





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Misc :
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Instrument : BNA_M
ClientSampleId : BE5Z4RE

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Quant Title : SVOA CALIBRATION

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

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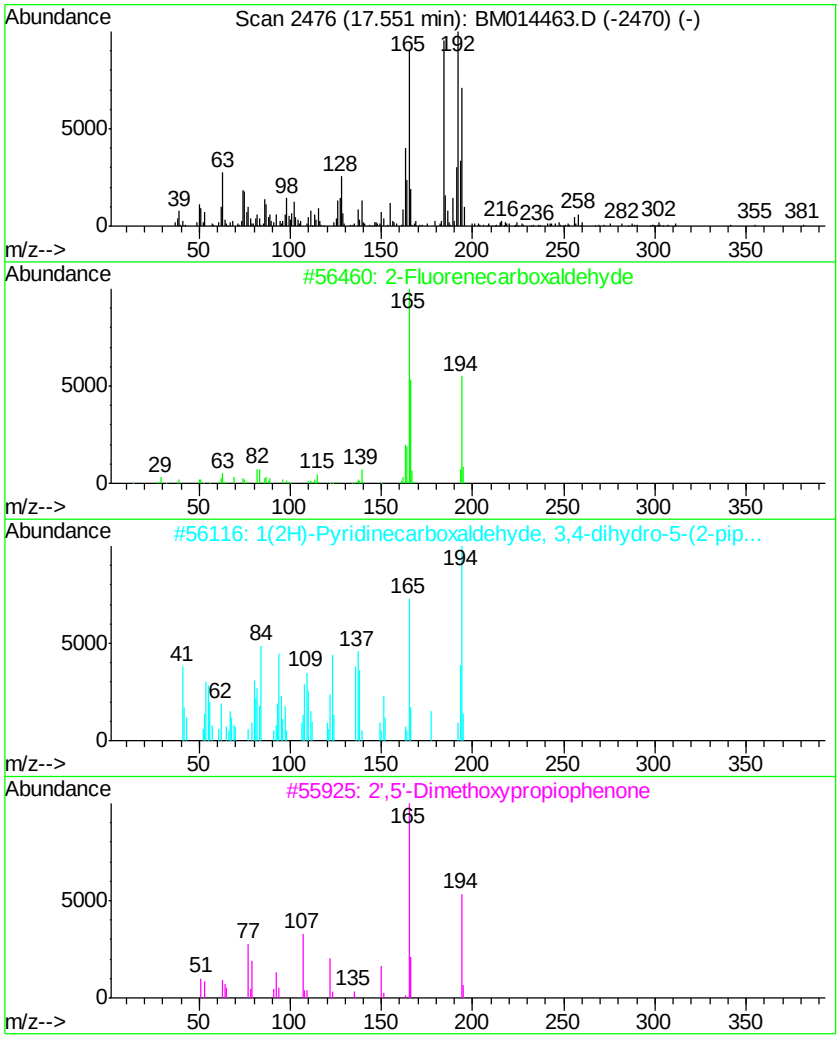
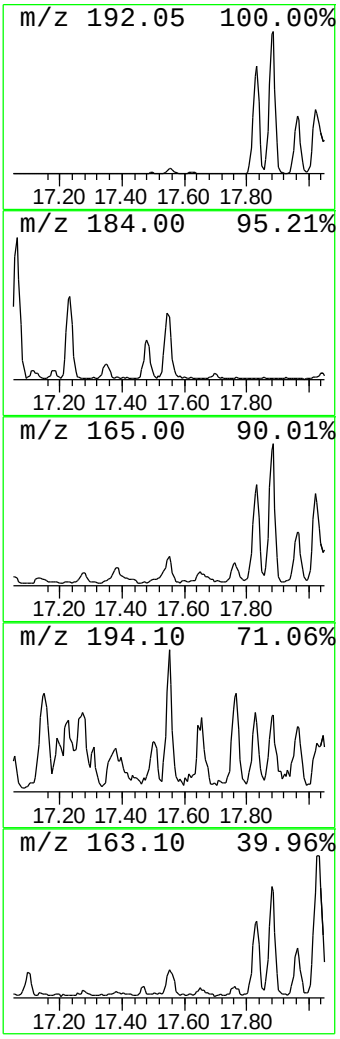
Peak Number 9 unknown-01 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.55	17.53 ng/ul	1140580	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Fluorenecarboxaldehyde	194	C14H10O	030084-90-3	25
2	1(2H)-Pyridinecarboxaldehyde, 3,...	194	C11H18N2O	053508-13-7	25
3	2',5'-Dimethoxypropiophenone	194	C11H14O3	005803-30-5	25
4	Benzene, 2-bromo-1,3-difluoro-	192	C6H3BrF2	064248-56-2	22
5	5H-Dibenzo[a,d]cycloheptane-10,1...	222	C15H10O2	052559-75-8	22





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Quant Title : SVOA CALIBRATION

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

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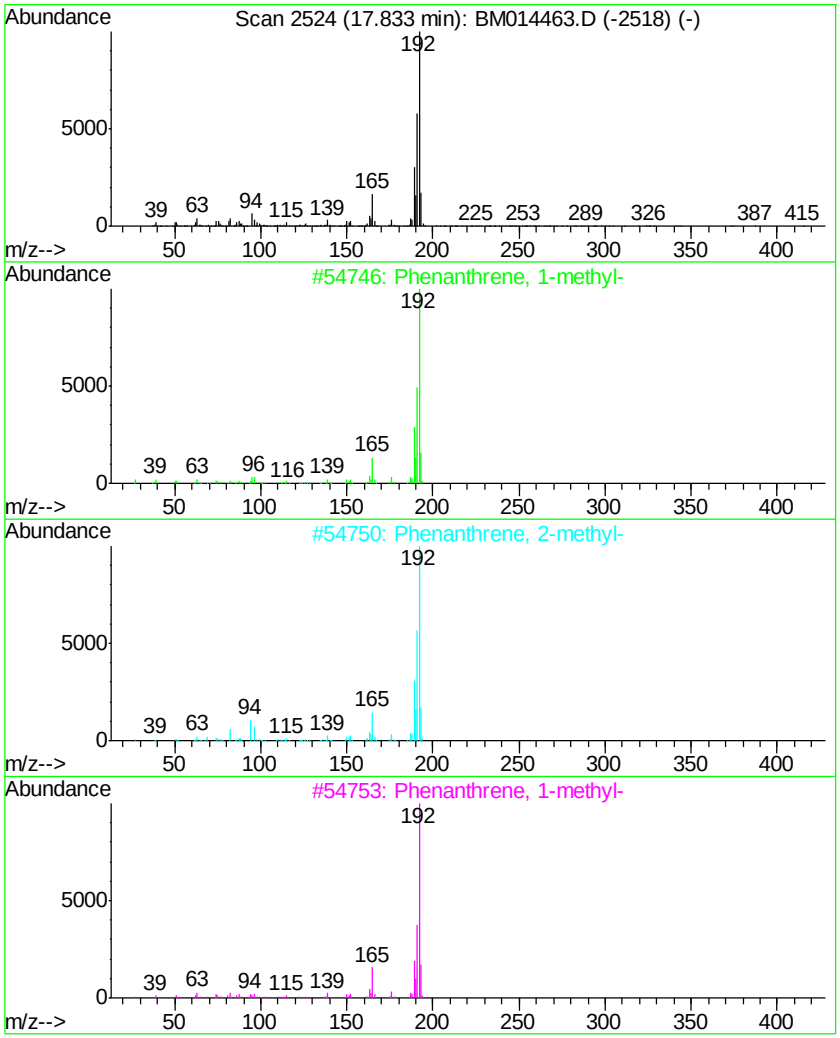
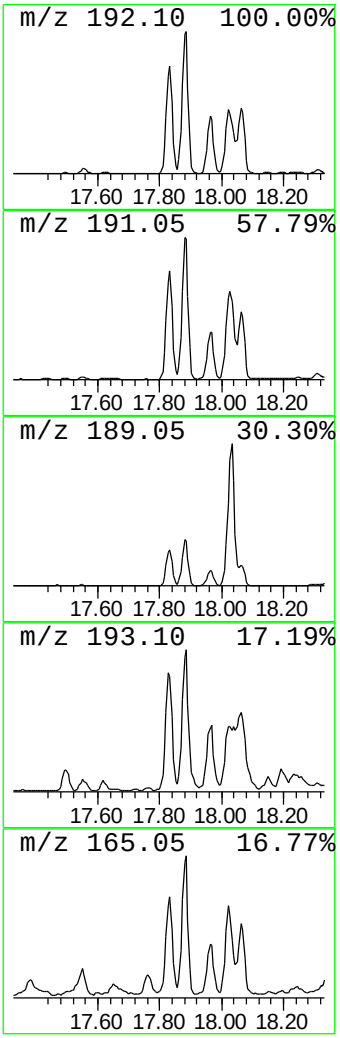
Peak Number 10 Phenanthrene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.83	76.55 ng/ul	4979680	Phenanthrene-d10	16.96

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, 1-methyl-	192	C15H12	000832-69-9	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94





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Sample : J1678-21RE
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Z4RE

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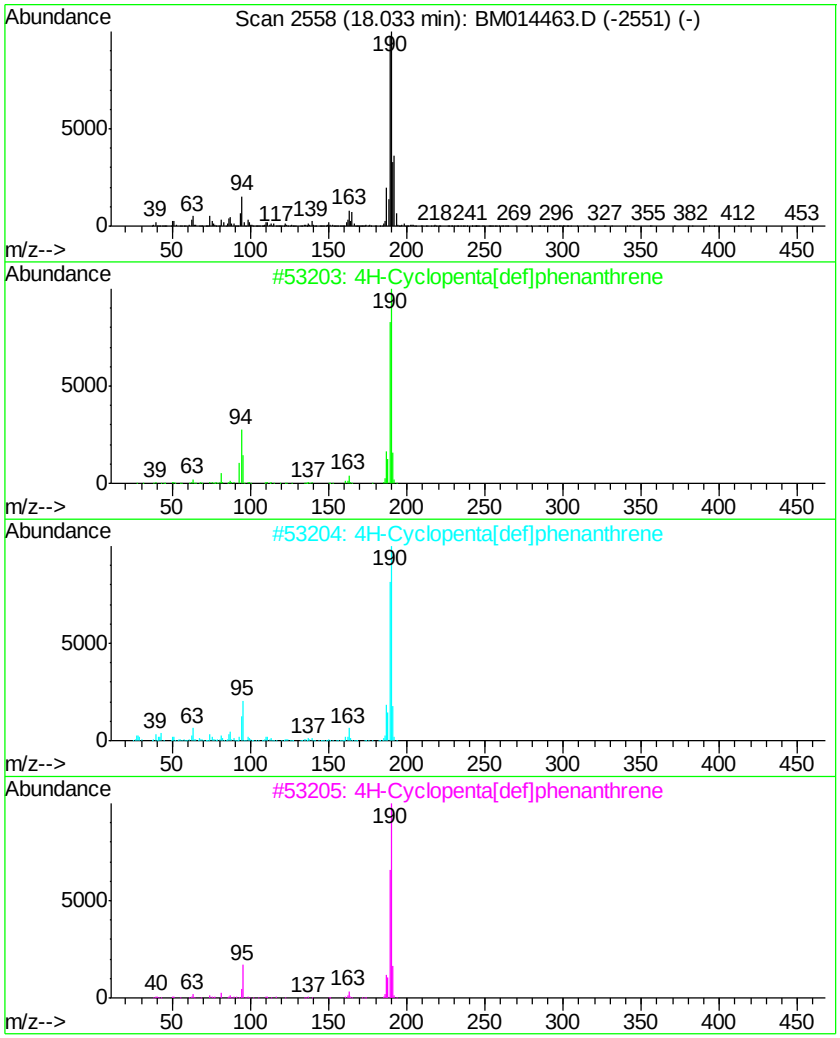
Quant Title : SVOA CALIBRATION

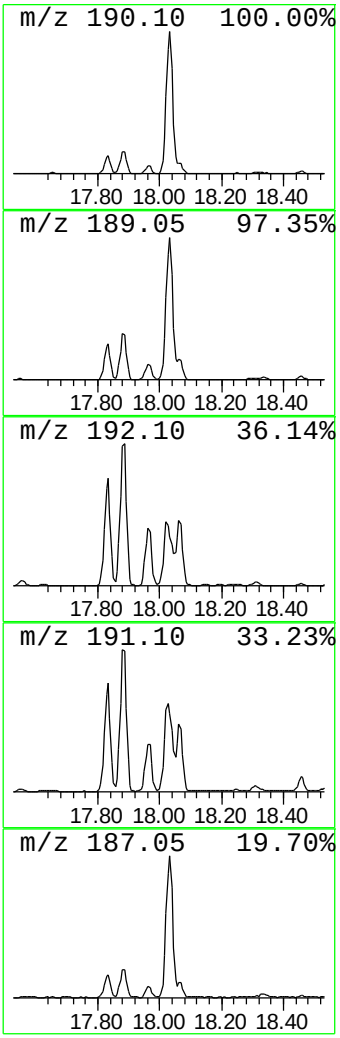
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 13 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.03	154.82 ng/ul	10071200	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	83
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	76
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
4	Methyl diselenide	190	C2H6Se2	007101-31-7	55
5	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	50





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Quant Title : SVOA CALIBRATION

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

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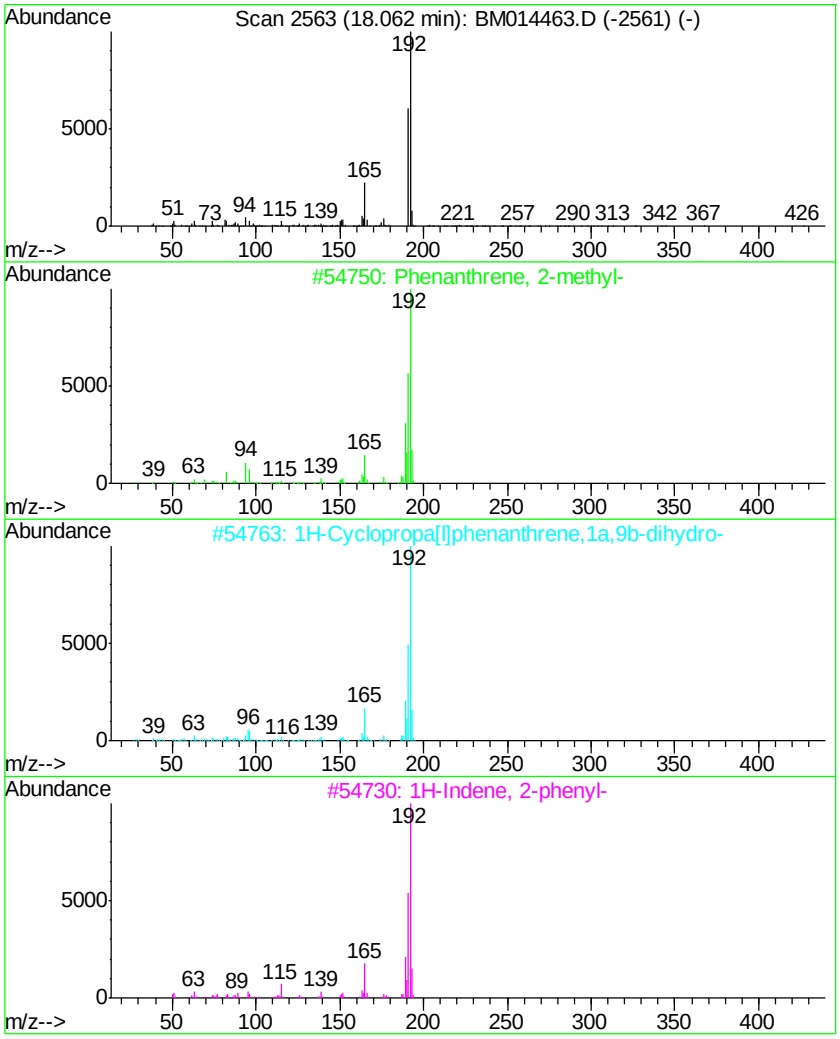
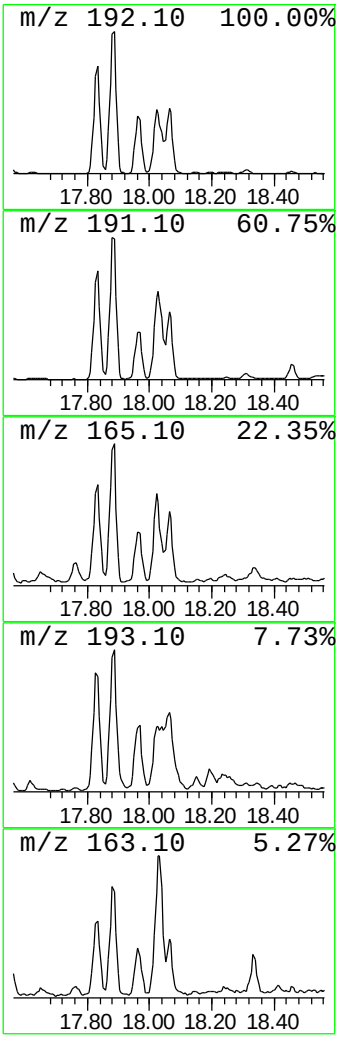
Peak Number 14 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.06	45.66 ng/ul	2969900	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	90
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	86
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	86





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Sample : J1678-21RE
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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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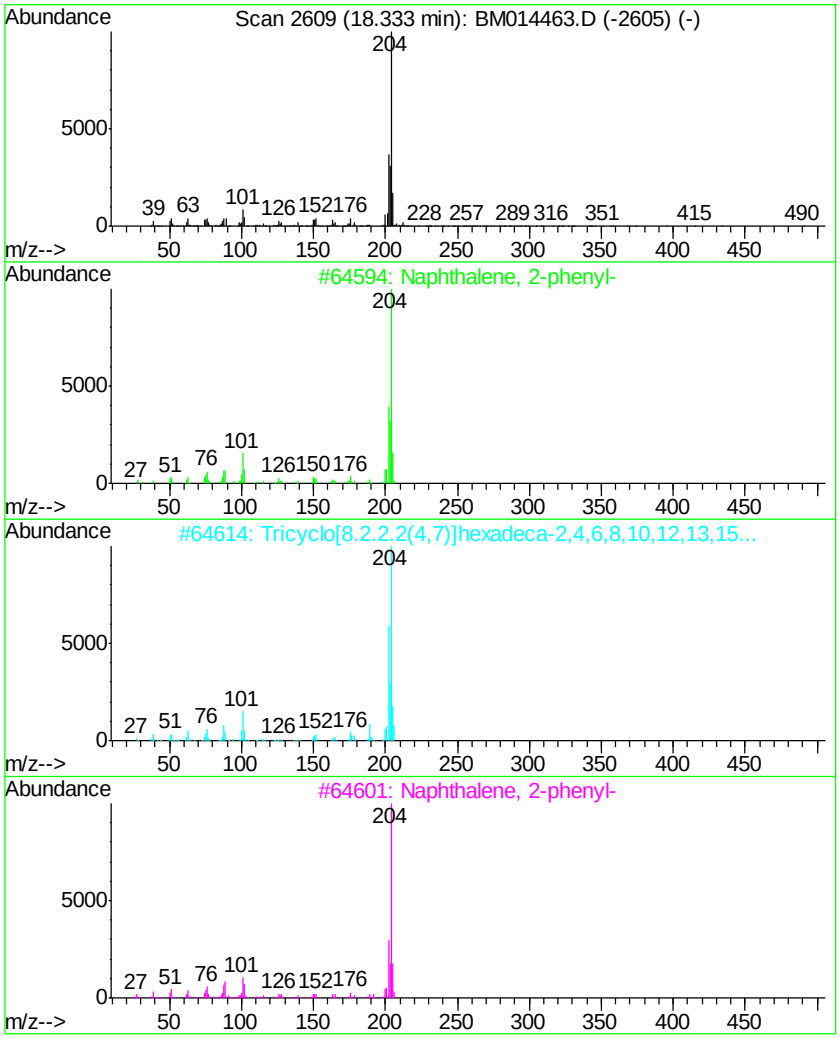
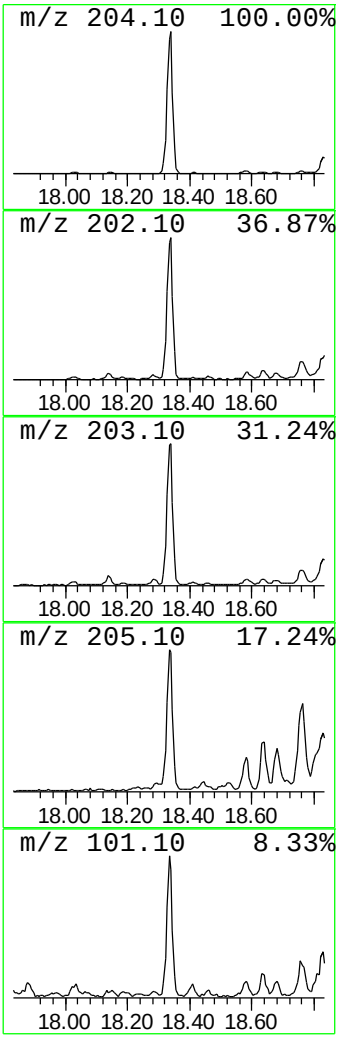
Peak Number 15 Naphthalene, 2-phenyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.33	62.28 ng/ul	4051270	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
2	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	81
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	76
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	74
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	74





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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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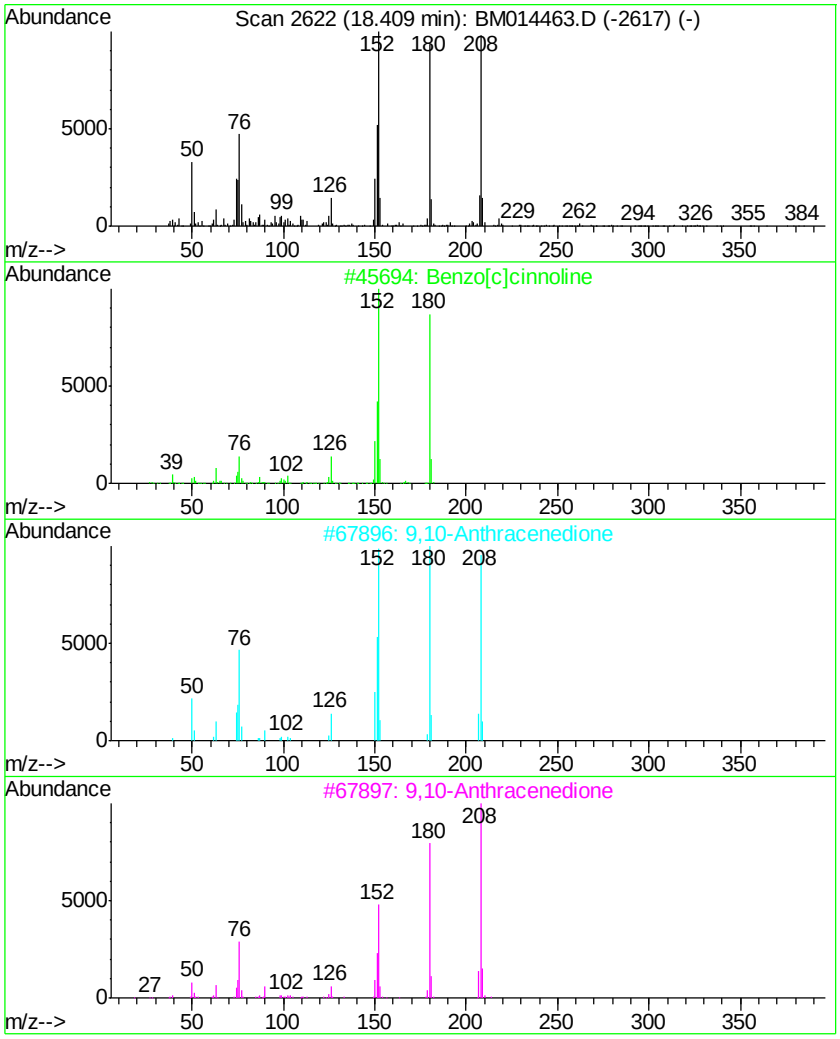
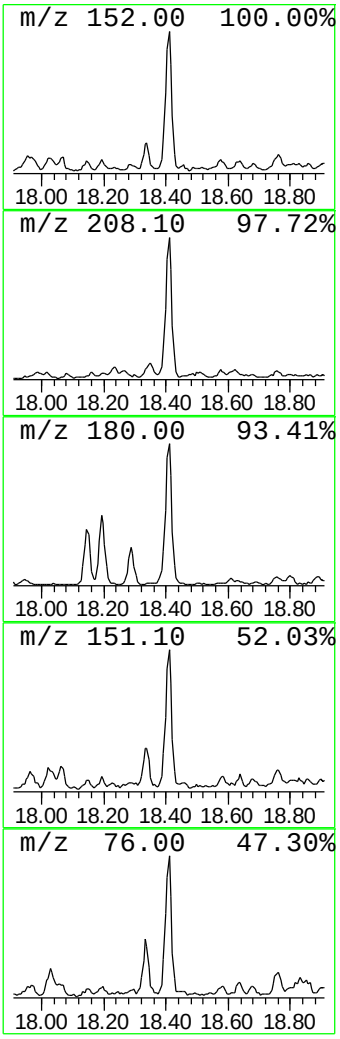
Peak Number 16 Benzo[c]cinnoline Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.41	33.22 ng/ul	2161120	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	96
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	94
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	90
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	83
5	9,10-Anthracenedione	208	C14H8O2	000084-65-1	64





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Sample : J1678-21RE
Misc :
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TIC Integration Parameters: LSCINT.P

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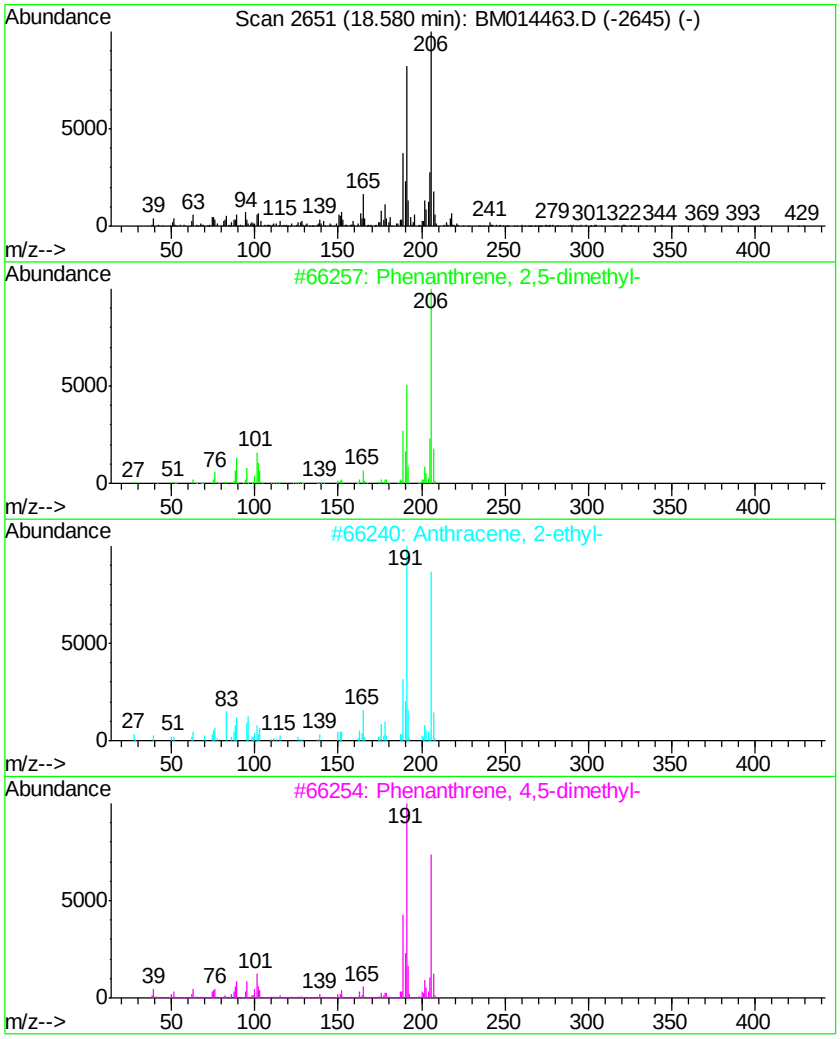
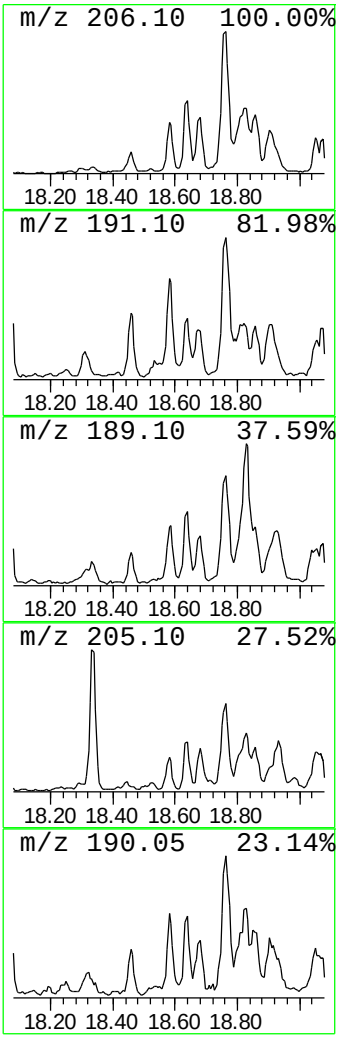
Peak Number 17 Phenanthrene, 2,5-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.58	21.90 ng/ul	1424290	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	91
3	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	90
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
5	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	90





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

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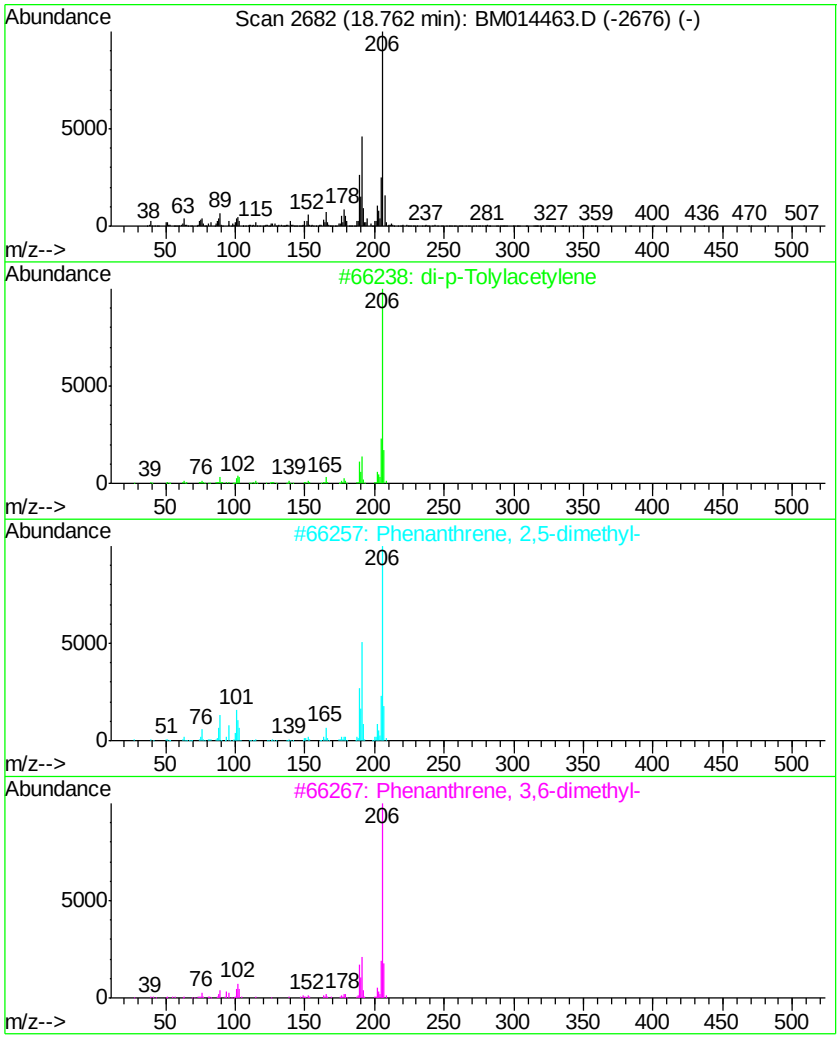
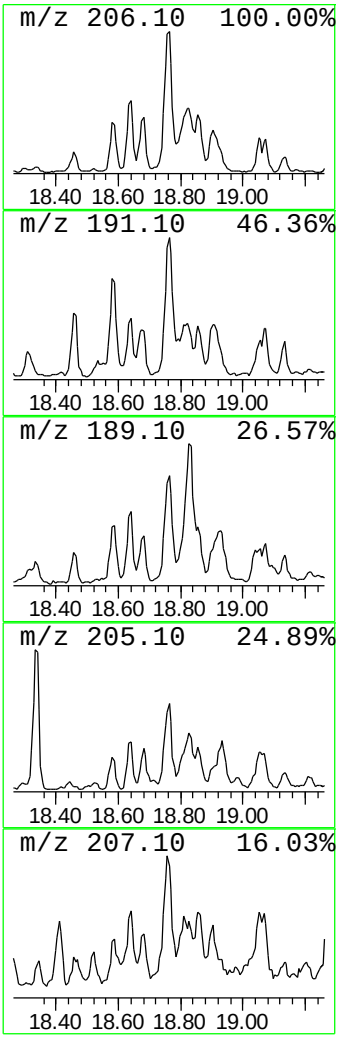
Peak Number 18 di-p-Tolylacetylene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.76	43.11 ng/ul	2804140	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	93
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
5	di-p-Tolylacetylene	206	C16H14	002789-88-0	90





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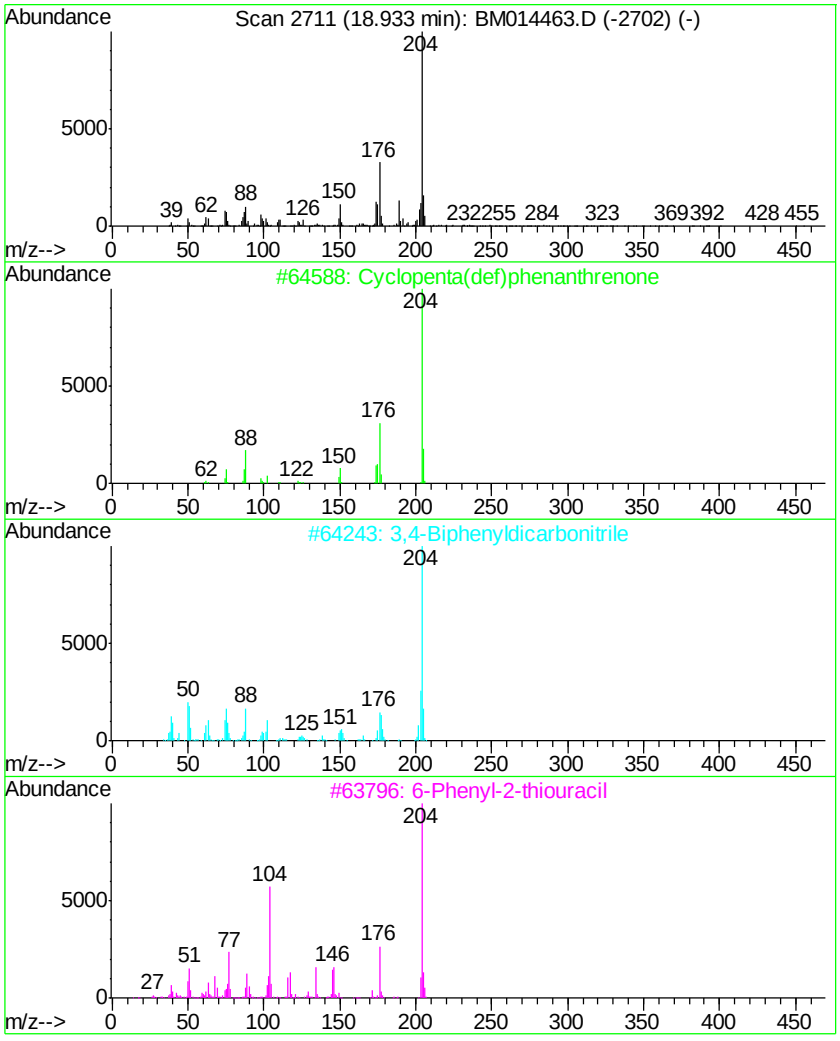
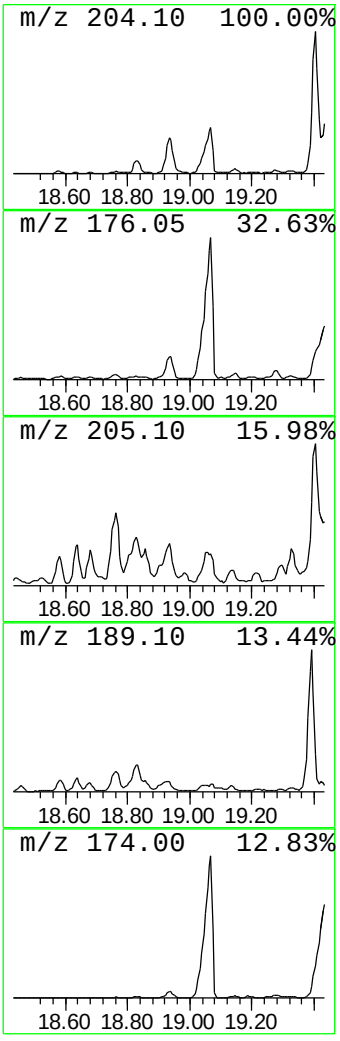
Peak Number 19 Cyclopenta(def)phenanthrenone Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.93	38.77 ng/ul	2522020	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	74
2	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	59
3	6-Phenyl-2-thiouracil	204	C10H8N2OS	005590-94-3	59
4	4,5,6,7-Tetrafluoro-2-methyl-1H-...	204	C8H4F4N2	081430-75-3	50
5	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	50





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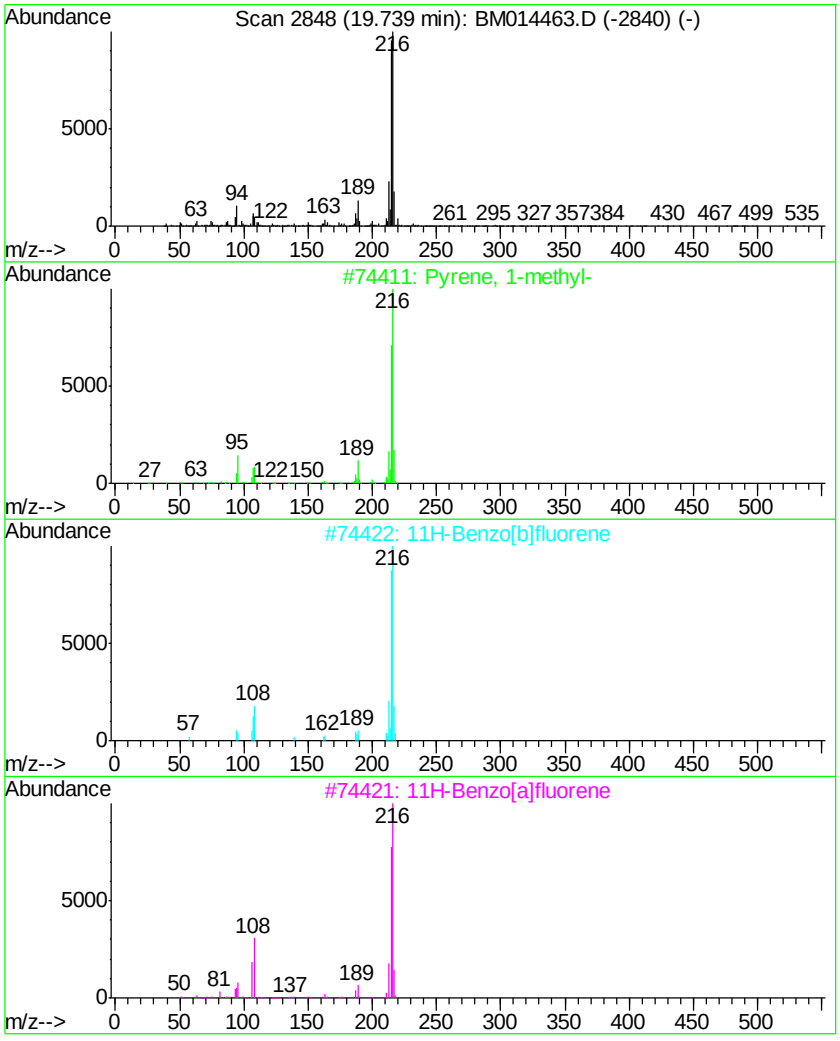
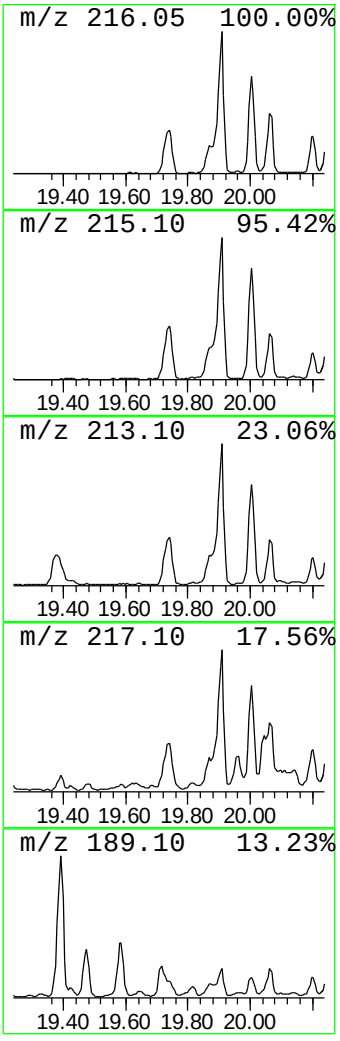
Peak Number 20 Pyrene, 1-methyl- Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.74	2.64 ng/ul	5710200	Chrysene-d12	21.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87





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Acq On : 02 Mar 2018 15:55
Operator : SJ/JU
Sample : J1678-21RE
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Z4RE

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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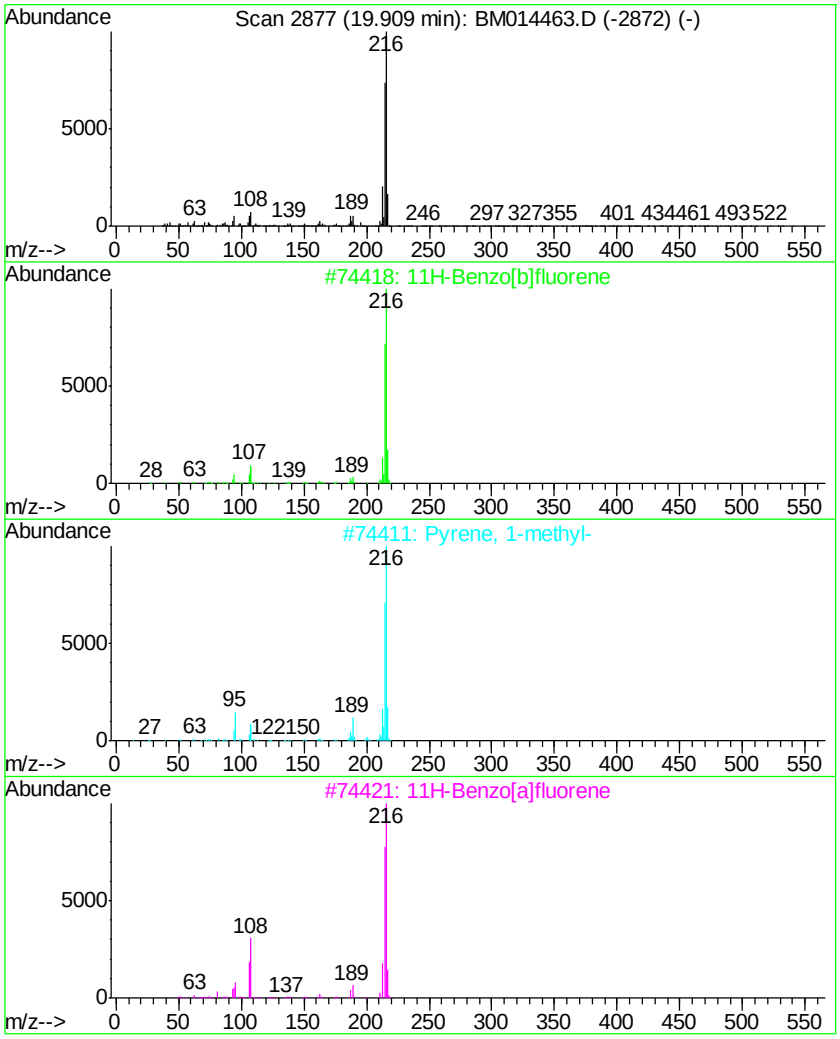
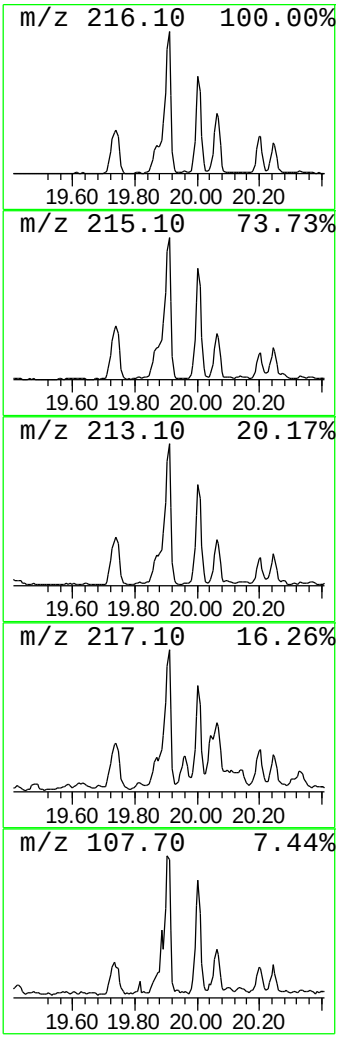
Peak Number 21 11H-Benzo[b]fluorene Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.91	3.96 ng/ul	8571960	Chrysene-d12	21.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90





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Acq On : 02 Mar 2018 15:55
Operator : SJ/JU
Sample : J1678-21RE
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Z4RE

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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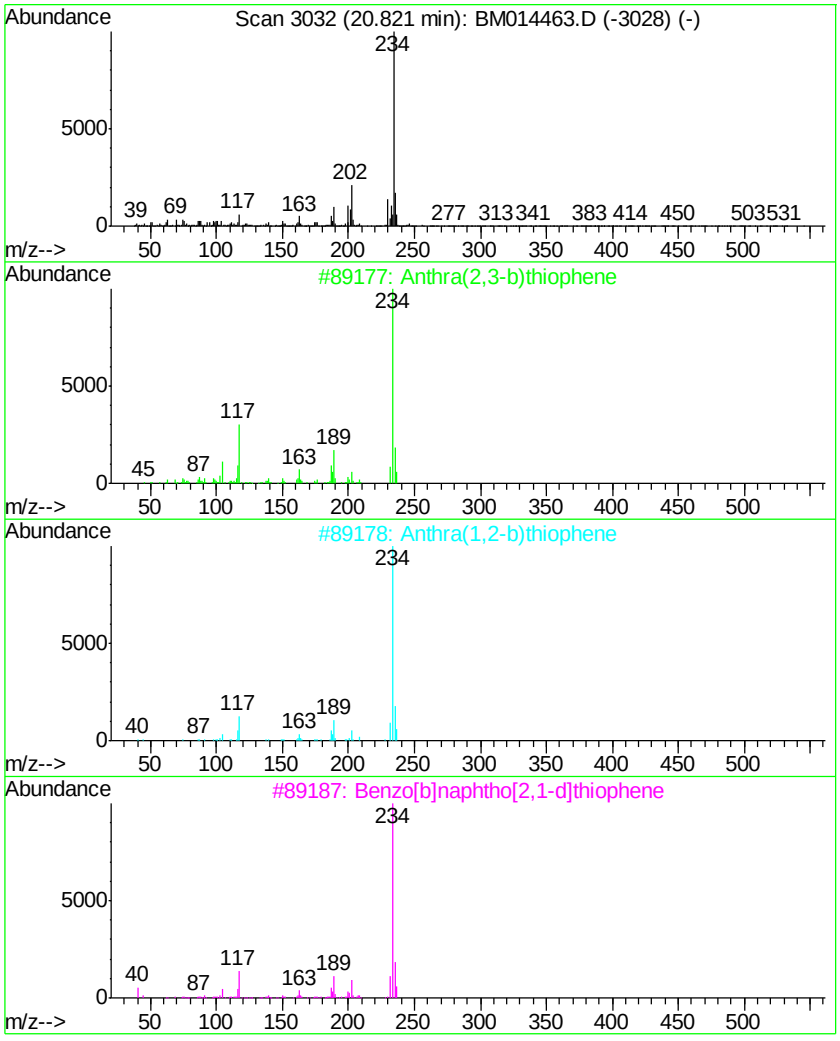
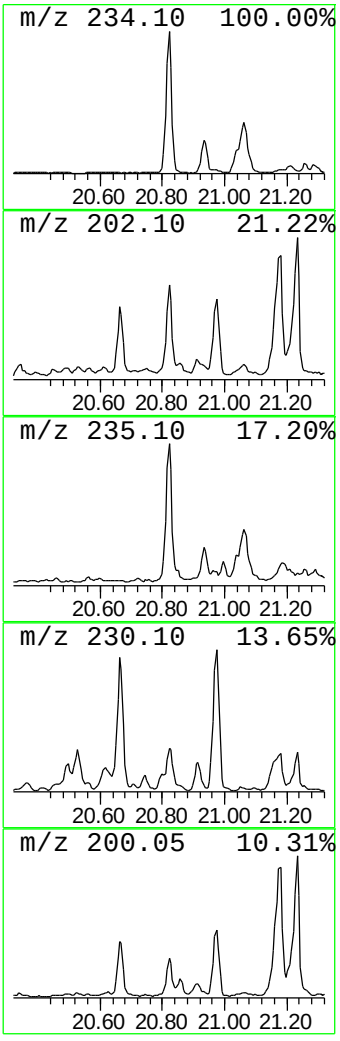
Peak Number 24 Anthra(2,3-b)thiophene Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.82	2.11 ng/ul	4565760	Chrysene-d12	21.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthra(2,3-b)thiophene	234	C16H10S	022108-55-0	93
2	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	86
3	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	86
4	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	70
5	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	68





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Acq On : 02 Mar 2018 15:55
Operator : SJ/JU
Sample : J1678-21RE
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Z4RE

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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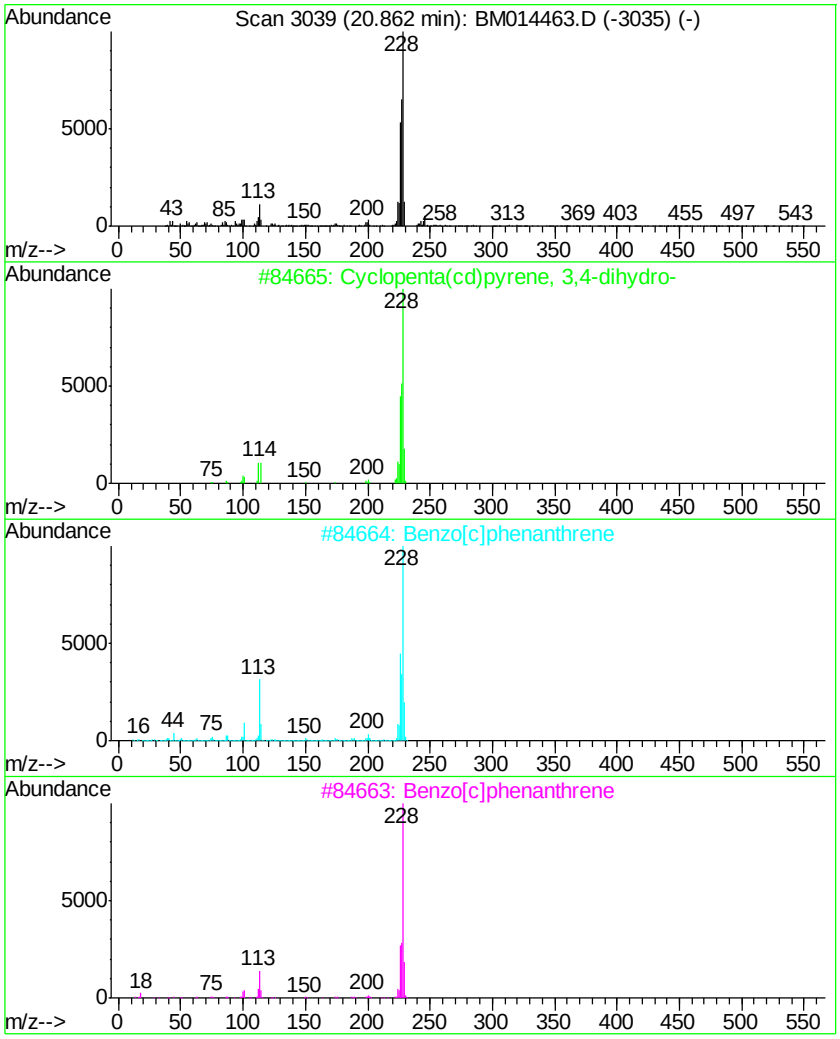
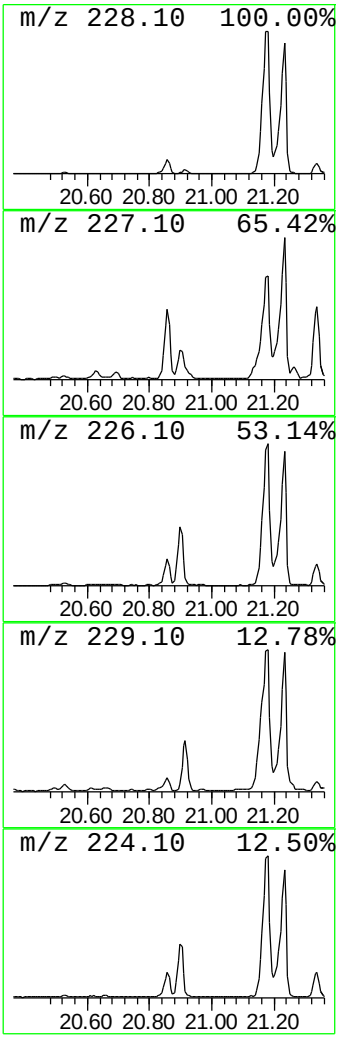
Peak Number 25 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.86	2.52 ng/ul	5456920	Chrysene-d12	21.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	83
2	Benzo[c]phenanthrene	228	C18H12	000195-19-7	60
3	Benzo[c]phenanthrene	228	C18H12	000195-19-7	58
4	Triphenylene	228	C18H12	000217-59-4	55
5	Chrysene	228	C18H12	000218-01-9	55





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Acq On : 02 Mar 2018 15:55
Operator : SJ/JU
Sample : J1678-21RE
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Z4RE

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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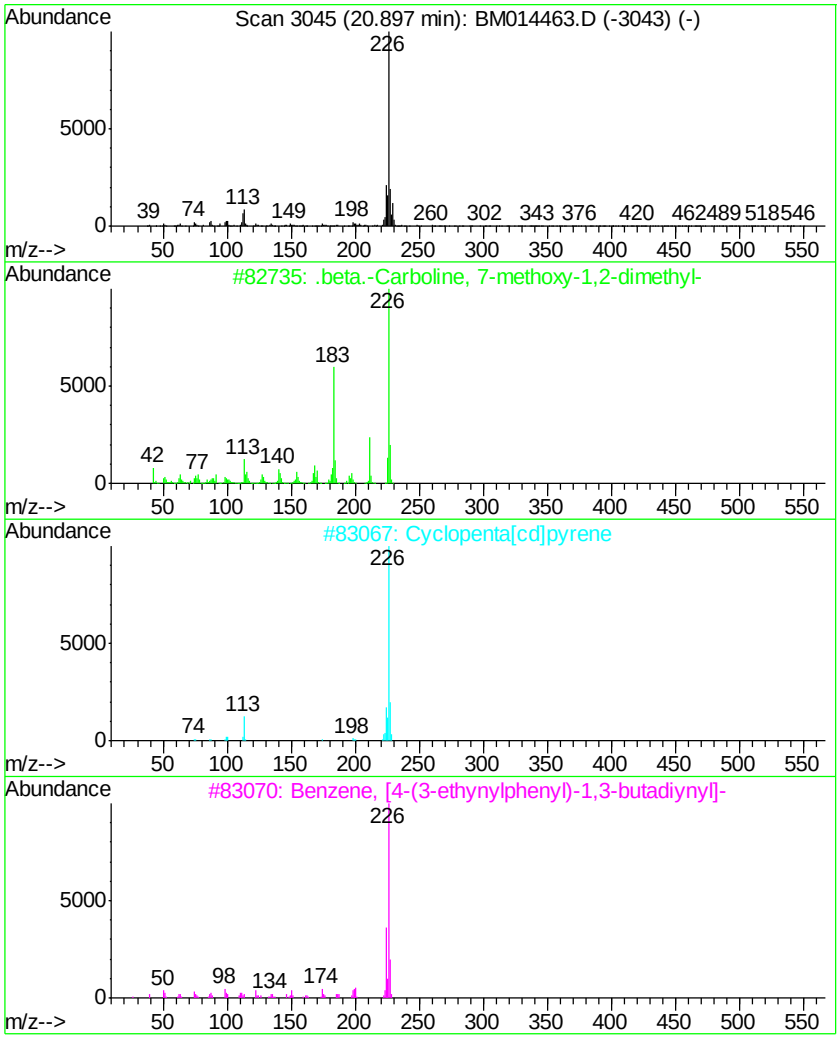
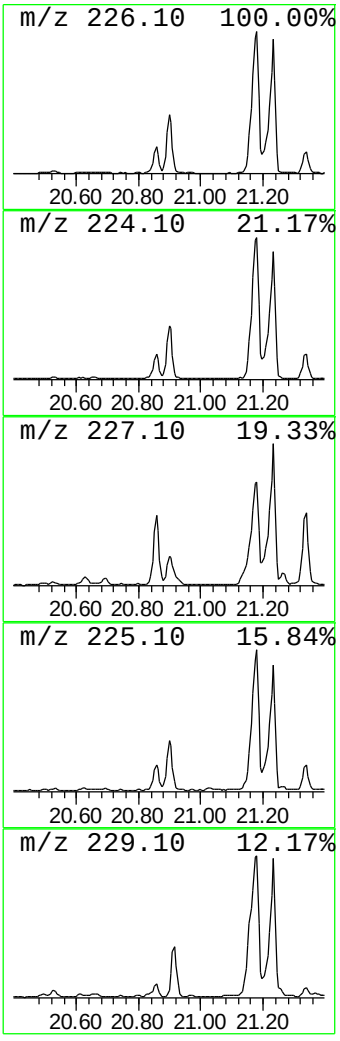
Peak Number 26 unknown-02 Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.90	2.65 ng/ul	5743520	Chrysene-d12	21.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	47
2	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	46
3	Benzene, [4-(3-ethynylphenyl)-1,...	226	C18H10	1000115-87-3	43
4	N,N-Dimethylindoaniline	226	C14H14N2O	002150-58-5	38
5	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	27





Library Search Compound Report

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Data File : BM014463.D
Acq On : 02 Mar 2018 15:55
Operator : SJ/JU
Sample : J1678-21RE
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Z4RE

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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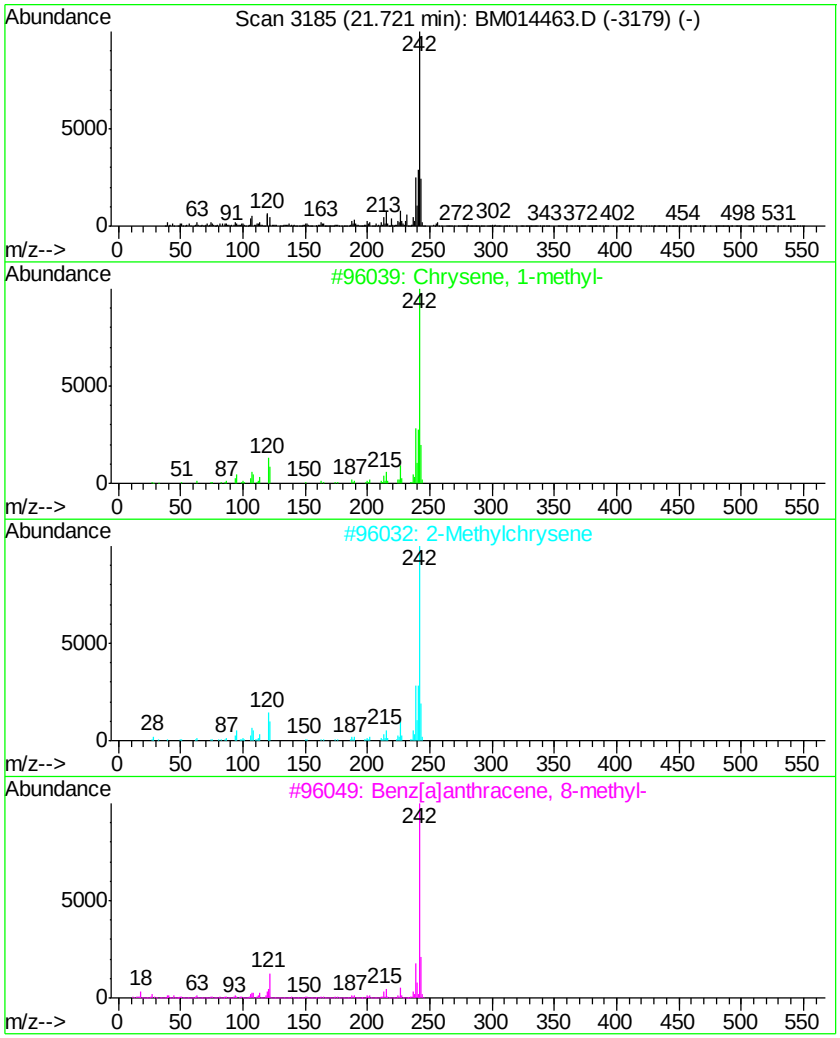
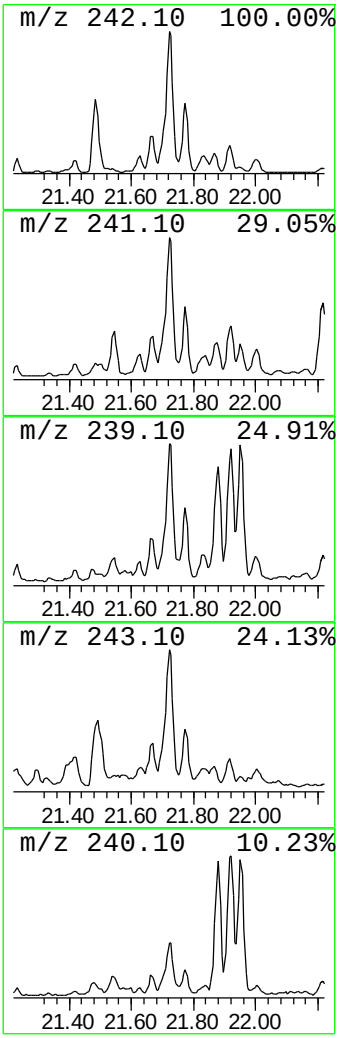
Peak Number 27 Chrysene, 1-methyl- Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.72	2.67 ng/ul	5778860	Chrysene-d12	21.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chrysene, 1-methyl-	242	C19H14	003351-28-8	95
2	2-Methylchrysene	242	C19H14	003351-32-4	95
3	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	95
4	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	93
5	1H-Benz[f]indene, 2-phenyl-	242	C19H14	1000305-22-4	93





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Data File : BM014463.D
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Operator : SJ/JU
Sample : J1678-21RE
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Z4RE

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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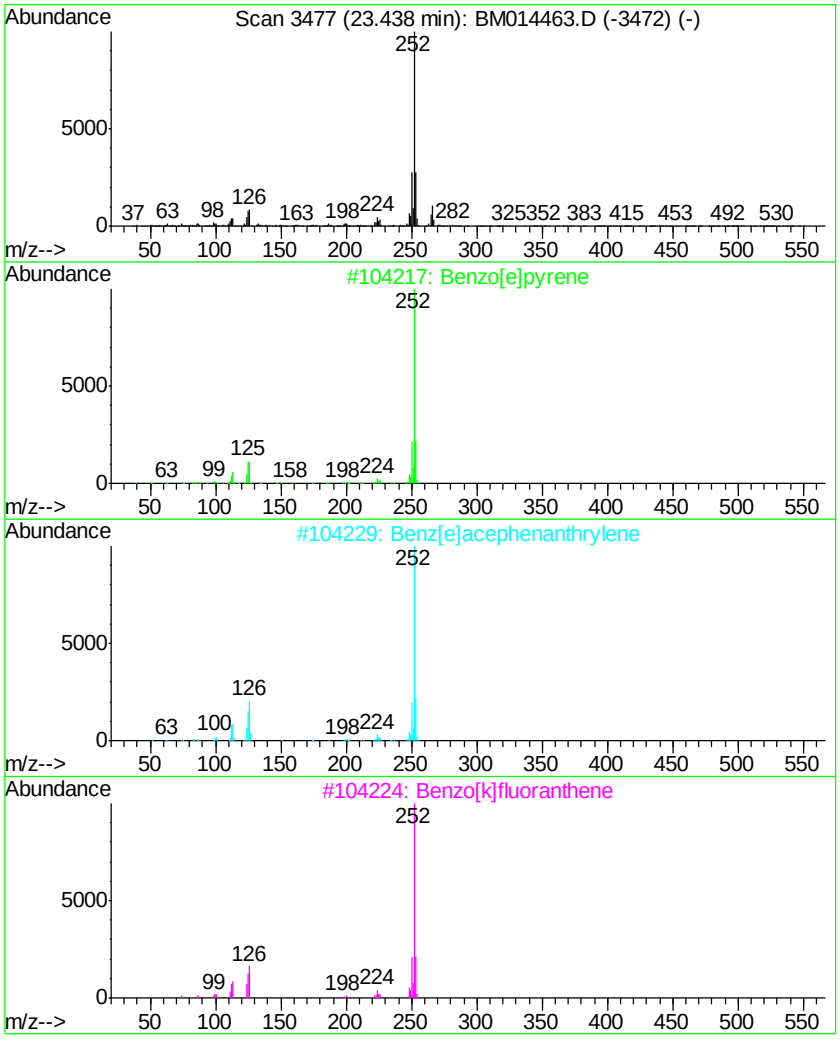
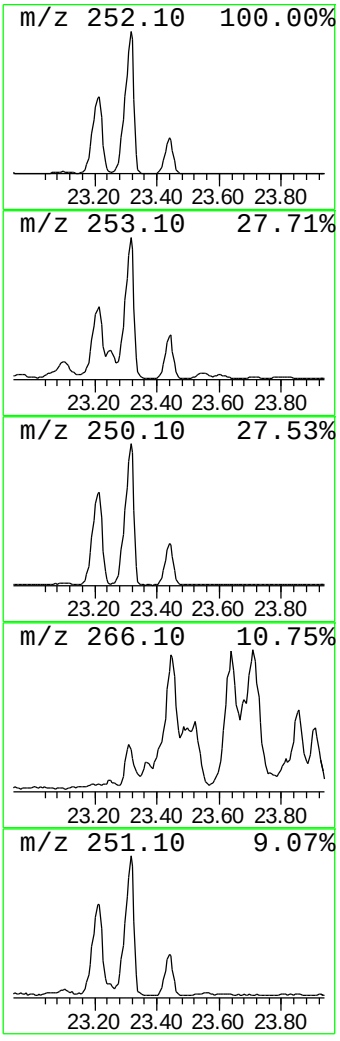
Peak Number 29 Benzo[e]pyrene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.44	20.00 ng/ul	6496500	Perylene-d12	23.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	95
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	89
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	89





Tentatively Identified Compound (LSC) summary

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Data File : BM014463.D
Acq On : 02 Mar 2018 15:55
Operator : SJ/JU
Sample : J1678-21RE
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Z4RE

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.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
Dibenzofuran, 4-m...	15.54	16.3	ng/ul	1145640	3	14.18	1407190	20.0
9H-Fluorene, 2-me...	16.26	23.6	ng/ul	1532520	4	16.96	1300980	20.0
9H-Fluoren-9-one	16.62	22.7	ng/ul	1475150	4	16.96	1300980	20.0
Benzo[b]benzofura...	16.68	16.9	ng/ul	1102800	4	16.96	1300980	20.0
Naphtho[1,2-b]thi...	16.77	48.7	ng/ul	3169970	4	16.96	1300980	20.0
Acridine	17.16	19.9	ng/ul	1297430	4	16.96	1300980	20.0
Naphthalene, 1-ph...	17.47	16.1	ng/ul	1046900	4	16.96	1300980	20.0
unknown-01	17.55	17.5	ng/ul	1140580	4	16.96	1300980	20.0
Phenanthrene, 1-m...	17.83	76.5	ng/ul	4979680	4	16.96	1300980	20.0
4H-Cyclopenta[def...	18.03	154.8	ng/ul	10071200	4	16.96	1300980	20.0
Phenanthrene, 2-m...	18.06	45.7	ng/ul	2969900	4	16.96	1300980	20.0
Naphthalene, 2-ph...	18.33	62.3	ng/ul	4051270	4	16.96	1300980	20.0
Benzo[c]cinnoline	18.41	33.2	ng/ul	2161120	4	16.96	1300980	20.0
Phenanthrene, 2,5...	18.58	21.9	ng/ul	1424290	4	16.96	1300980	20.0
di-p-Tolylacetylene	18.76	43.1	ng/ul	2804140	4	16.96	1300980	20.0
Cyclopenta(def)ph...	18.93	38.8	ng/ul	2522020	4	16.96	1300980	20.0
Pyrene, 1-methyl-	19.74	2.6	ng/ul	5710200	5	21.19	43267300	20.0
11H-Benzo[b]fluorene	19.91	4.0	ng/ul	8571960	5	21.19	43267300	20.0
Anthra(2,3-b)thio...	20.82	2.1	ng/ul	4565760	5	21.19	43267300	20.0
Cyclopenta(cd)pyr...	20.86	2.5	ng/ul	5456920	5	21.19	43267300	20.0
unknown-02	20.90	2.6	ng/ul	5743520	5	21.19	43267300	20.0
Chrysene, 1-methyl-	21.72	2.7	ng/ul	5778860	5	21.19	43267300	20.0
Benzo[e]pyrene	23.44	20.0	ng/ul	6496500	6	23.39	6496500	20.0