LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014435.D
Acq On : 01 Mar 2018 11:44
Operator : SJ/JU
Sample : J1678-10 10X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5W0

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	7.510	763	769	782	rBV	465604	821936	7.89%	0.818%
2	8.257	888	896	903	rBV4	53437	124183	1.19%	0.124%
3	8.686	961	969	978	rBV3	56543	130295	1.25%	0.130%
4	9.957	1179	1185	1195	rBV5	47061	132784	1.28%	0.132%
5	10.286	1231	1241	1246	rBV	720750	1284105	12.33%	1.278%
6	10.333	1246	1249	1260	rVB	181354	316153	3.04%	0.315%
7	11.963	1520	1526	1536	rBV	110244	197699	1.90%	0.197%
8	12.180	1557	1563	1574	rVB	106949	207706	1.99%	0.207%
9	13.486	1778	1785	1791	rBV3	132538	261498	2.51%	0.260%
10	13.545	1791	1795	1799	rVV3	72434	113593	1.09%	0.113%
11	13.598	1799	1804	1808	rVV	139937	205760	1.98%	0.205%
12	13.727	1821	1826	1829	rBV3	77559	112765	1.08%	0.112%
13	13.863	1843	1849	1852	rBV	210218	337513	3.24%	0.336%
14	13.892	1852	1854	1862	rVB	161206	227944	2.19%	0.227%
15	14.174	1888	1902	1908	rBV2	1151251	1793926	17.23%	1.786%
16	14.239	1908	1913	1922	rVB	378942	588718	5.65%	0.586%
17	14.386	1933	1938	1948	rVB5	46829	128914	1.24%	0.128%
18	14.486	1948	1955	1961	rBV4	66800	158105	1.52%	0.157%
19	14.580	1961	1971	1977	rVV	300295	509152	4.89%	0.507%
20	14.657	1977	1984	1988	rVV2	70721	119650	1.15%	0.119%
21	14.798	1999	2008	2014	rBV2	70933	145046	1.39%	0.144%
22	15.174	2067	2072	2077	rBV	231319	335196	3.22%	0.334%
23	15.233	2077	2082	2088	rVV	455888	655968	6.30%	0.653%
24	15.392	2106	2109	2114	rVB3	87588	125712	1.21%	0.125%
25	15.527	2128	2132	2140	rVB	144103	267974	2.57%	0.267%
26	15.680	2154	2158	2165	rVB2	133559	265124	2.55%	0.264%
27	15.768	2165	2173	2179	rVB8	55238	143515	1.38%	0.143%
28	15.921	2192	2199	2207	rVB6	82208	206903	1.99%	0.206%
29	16.245	2246	2254	2258	rBV4	130504	285850	2.75%	0.285%
30	16.292	2258	2262	2267	rVB3	106544	160017	1.54%	0.159%
31	16.509	2295	2299	2303	rVB3	91196	121798	1.17%	0.121%
32	16.604	2310	2315	2319	rVB	280415	411982	3.96%	0.410%
33	16.686	2321	2329	2336	rBV5	136050	347617	3.34%	0.346%
34	16.757	2336	2341	2349	rVB	329663	512309	4.92%	0.510%

LSC Area Percent Report

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Operator : SJ/JU
Sample : J1678-10 10X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5W0

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	16.939	2365	2372	2375	rBV	1412444	2126926	20.43%	2.117%
36	16.980	2375	2379	2385	rVV	6013222	8300078	79.72%	8.262%
37	17.033	2385	2388	2391	rVV3	332380	535272	5.14%	0.533%
38	17.068	2391	2394	2400	rVV	1159629	1561622	15.00%	1.555%
39	17.139	2400	2406	2410	rVV3	111285	199908	1.92%	0.199%
40	17.351	2433	2442	2450	rBV2	504054	1002296	9.63%	0.998%
41	17.456	2457	2460	2466	rBV3	92271	145730	1.40%	0.145%
42	17.521	2466	2471	2479	rVB3	190131	396375	3.81%	0.395%
43	17.662	2491	2495	2502	rVB	123683	216755	2.08%	0.216%
44	17.739	2504	2508	2513	rBV3	75028	114408	1.10%	0.114%
45	17.815	2513	2521	2524	rBV	888504	1343455	12.90%	1.337%
46	17.862	2524	2529	2535	rVB	1240637	1759942	16.90%	1.752%
47	17.945	2535	2543	2547	rBV	408604	629041	6.04%	0.626%
48	18.003	2547	2553	2557	rVV2	1167370	2066893	19.85%	2.057%
49	18.045	2557	2560	2567	rVB	701266	951964	9.14%	0.948%
50	18.133	2570	2575	2578	rBV3	110100	169259	1.63%	0.168%
51	18.174	2578	2582	2585	rVB3	97556	111716	1.07%	0.111%
52	18.215	2585	2589	2594	rBV6	103606	141962	1.36%	0.141%
53	18.321	2602	2607	2612	rBV	540441	714174	6.86%	0.711%
54	18.380	2612	2617	2623	rVB	580894	845357	8.12%	0.842%
55	18.568	2640	2649	2654	rBV2	258922	540194	5.19%	0.538%
56	18.621	2654	2658	2661	rVV	239207	303686	2.92%	0.302%
57	18.662	2661	2665	2669	rVB2	192164	280631	2.70%	0.279%
58	18.745	2673	2679	2683	rBV	572459	939142	9.02%	0.935%
59	18.803	2683	2689	2693	rVV3	326581	736842	7.08%	0.733%
60	18.839	2693	2695	2698	rVB	205096	194998	1.87%	0.194%
61	18.898	2698	2705	2711	rBV3	465323	917377	8.81%	0.913%
62	19.015	2718	2725	2731	rBV	8183247	10412104	100.00%	10.365%
63	19.080	2732	2736	2738	rVV2	134954	168648	1.62%	0.168%
64	19.109	2738	2741	2746	rVB	188942	247296	2.38%	0.246%
65	19.250	2759	2765	2769	rVB2	254354	463595	4.45%	0.461%
66	19.292	2769	2772	2776	rVB4	118252	161747	1.55%	0.161%
67	19.350	2776	2782	2783	rBV	1479589	1956101	18.79%	1.947%
68	19.380	2783	2787	2795	rVB	6972300	9229575	88.64%	9.188%
69	19.450	2795	2799	2804	rBV2	362667	516273	4.96%	0.514%
70	19.556	2813	2817	2823	rBV	301760	424951	4.08%	0.423%
71	19.627	2824	2829	2834	rVB2	336286	544928	5.23%	0.542%

LSC Area Percent Report

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Sample : J1678-10 10X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5W0

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

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

72	19.709	2836	2843	2849	rBV4	497462	1281193	12.30%	1.275%
73	19.845	2860	2866	2868	rBV3	442123	796191	7.65%	0.793%
74	19.880	2868	2872	2877	rVB	826739	1255847	12.06%	1.250%
75	19.980	2885	2889	2892	rBV	507879	652189	6.26%	0.649%
76	20.039	2893	2899	2902	rVB2	632680	1043765	10.02%	1.039%
77	20.115	2910	2912	2916	rVB2	139791	146356	1.41%	0.146%
78	20.174	2918	2922	2926	rBV	428611	565972	5.44%	0.563%
79	20.221	2926	2930	2935	rVB	487415	644774	6.19%	0.642%
80	20.433	2963	2966	2969	rBV4	114979	193834	1.86%	0.193%
81	20.503	2976	2978	2982	rVB	157165	188735	1.81%	0.188%
82	20.639	2997	3001	3006	rVB	772799	929508	8.93%	0.925%
83	20.797	3024	3028	3031	rBV	632686	820250	7.88%	0.817%
84	20.833	3031	3034	3037	rVV	558308	606628	5.83%	0.604%
85	20.874	3037	3041	3048	rVV3	391522	802173	7.70%	0.799%
86	20.939	3048	3052	3057	rVB	715702	874838	8.40%	0.871%
87	21.139	3079	3086	3092	rBV2	3804289	7655023	73.52%	7.620%
88	21.192	3092	3095	3104	rVB	3247421	3900691	37.46%	3.883%
89	21.303	3111	3114	3118	rBV	390755	493010	4.73%	0.491%
90	21.639	3168	3171	3174	rBV3	261427	340475	3.27%	0.339%
91	21.691	3177	3180	3184	rVV	651575	908396	8.72%	0.904%
92	21.744	3186	3189	3195	rVB	346622	440026	4.23%	0.438%
93	21.886	3210	3213	3216	rBV2	276673	375434	3.61%	0.374%
94	22.691	3344	3350	3354	rBV	1759961	3788421	36.38%	3.771%
95	22.844	3374	3376	3382	rVB	302420	433082	4.16%	0.431%
96	23.144	3422	3427	3432	rBV	954951	1627555	15.63%	1.620%
97	23.238	3438	3443	3452	rVB	1552323	2629866	25.26%	2.618%
98	23.327	3454	3458	3463	rVV2	808048	1453978	13.96%	1.447%
99	23.380	3463	3467	3474	rVB2	448364	821552	7.89%	0.818%
100	25.497	3822	3827	3836	rVB	704075	1658979	15.93%	1.651%

Sum of corrected areas: 100457372

LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
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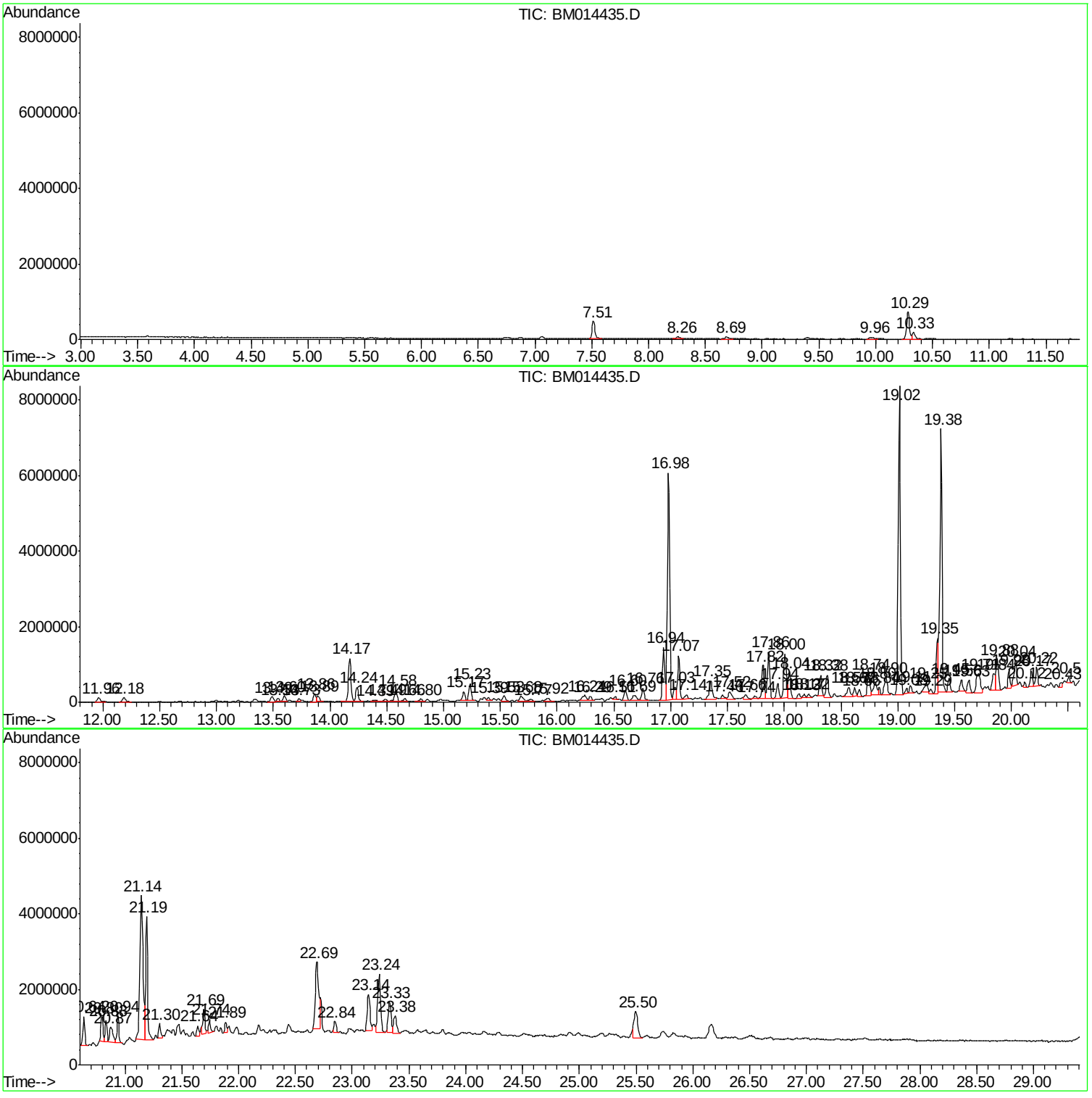
Sample : J1678-10 10X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5W0

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



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
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Instrument : BNA_M
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Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

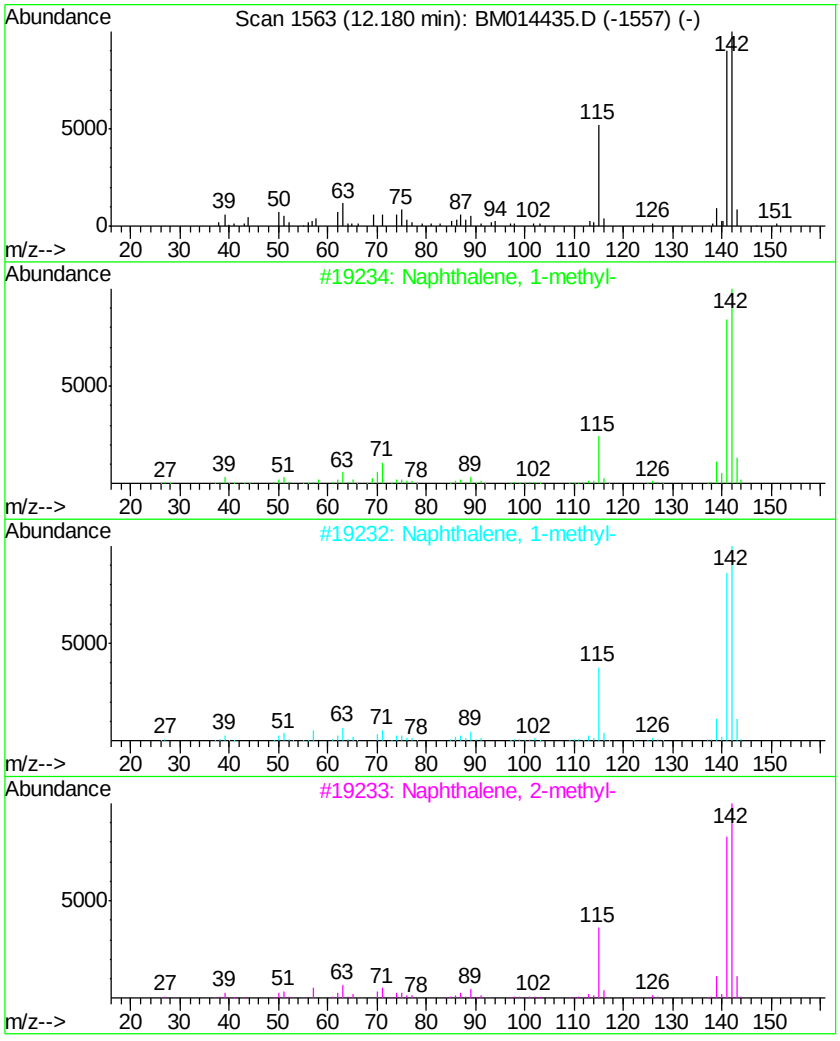
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

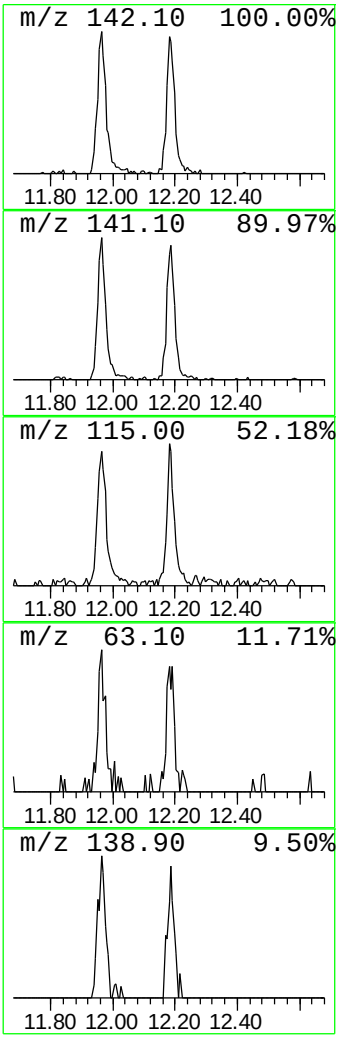
****

Peak Number 1 Naphthalene, 1-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.18	3.24 ng/ul	207706	Naphthalene-d8	10.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	95
2	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	91
3	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	91
4	Benzocycloheptatriene	142	C11H10	000264-09-5	90
5	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	87





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Data File : BM014435.D
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Operator : SJ/JU
Sample : J1678-10 10X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5W0

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

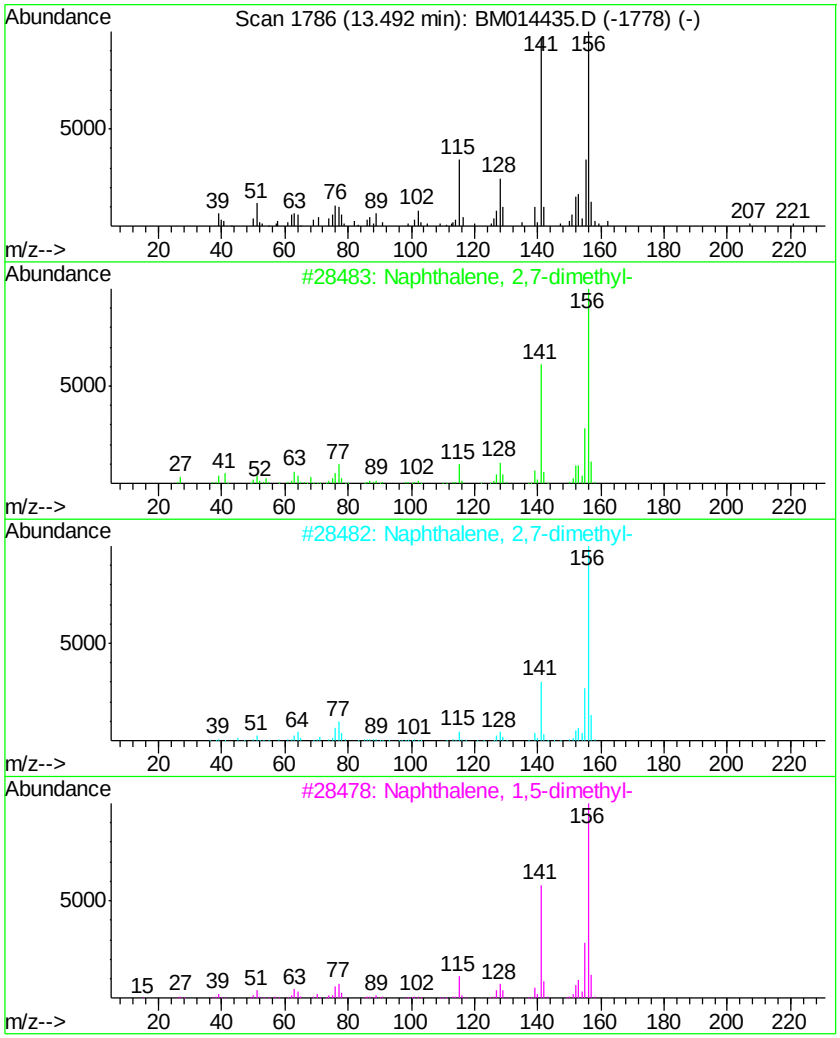
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

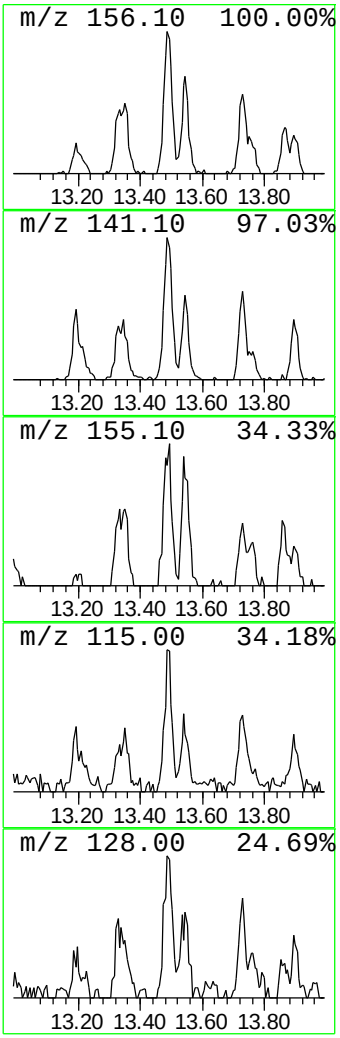
****

Peak Number 2 Naphthalene, 2,7-dimethyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.49	2.92 ng/ul	261498	Acenaphthene-d10	14.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96
2	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	94
3	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	93
4	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	93
5	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	91





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Sample : J1678-10 10X
Misc :
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Instrument : BNA_M
ClientSampleId : BE5W0

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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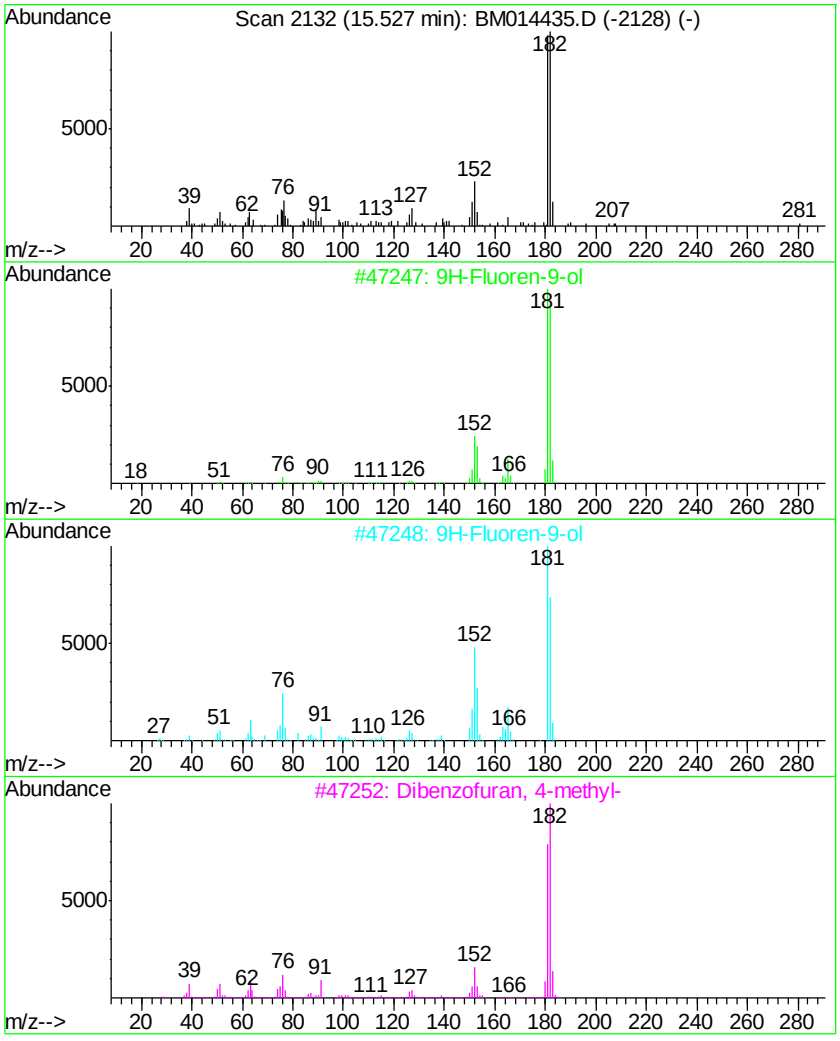
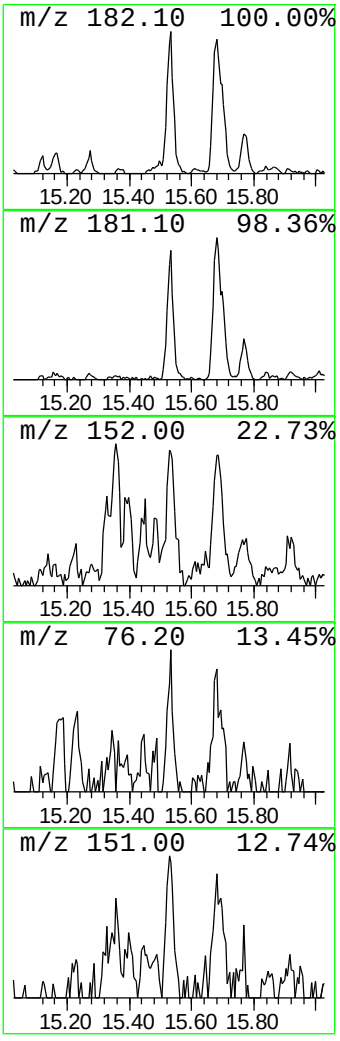
Peak Number 3 9H-Fluoren-9-ol Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.53	2.99 ng/ul	267974	Acenaphthene-d10	14.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	80
2	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
3	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	78
4	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	72
5	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	72





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Operator : SJ/JU
Sample : J1678-10 10X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5W0

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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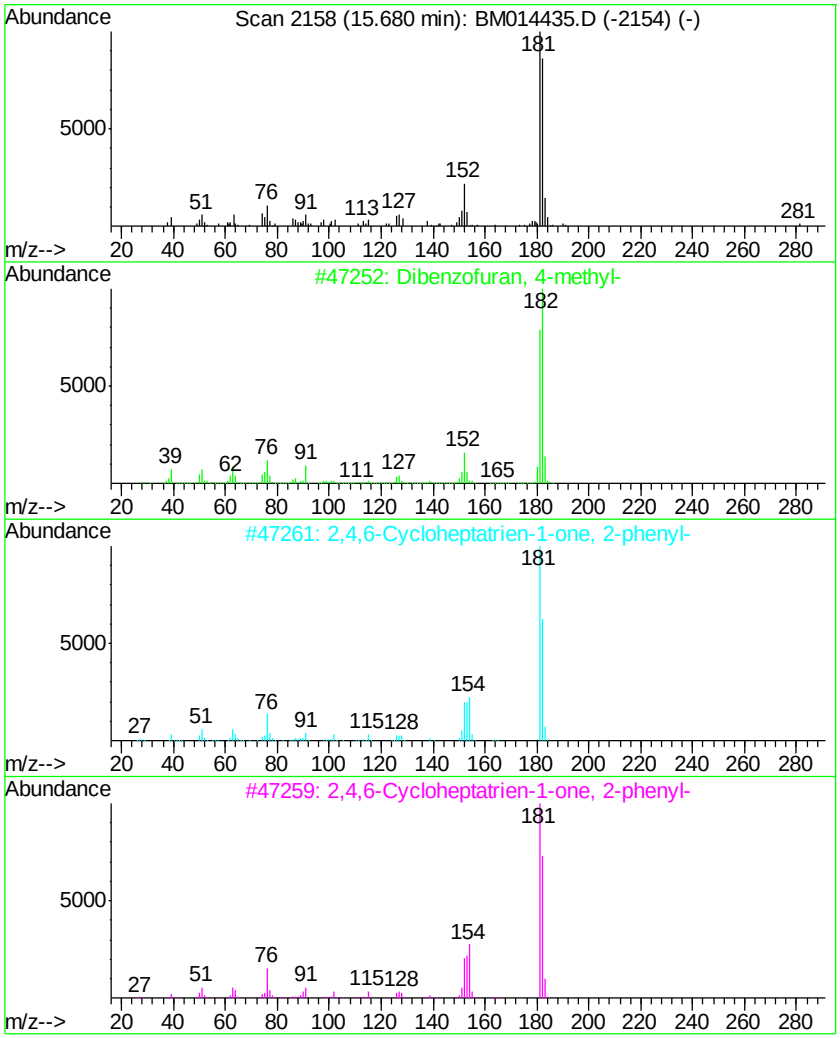
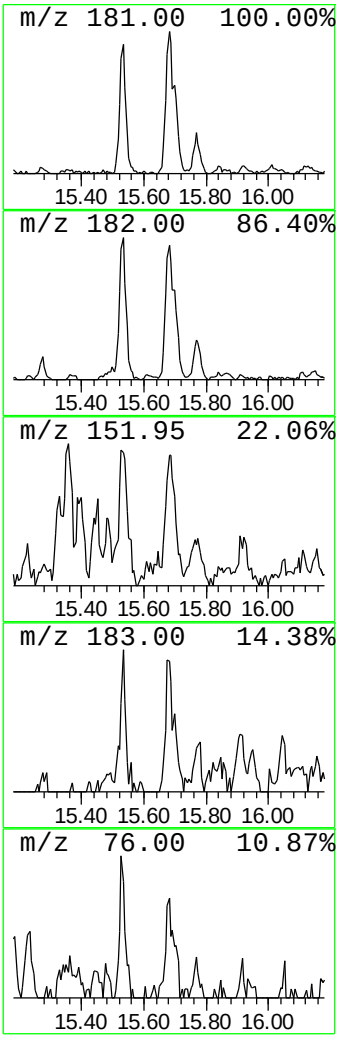
Peak Number 4 Dibenzofuran, 4-methyl- Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.68	2.49 ng/ul	265124	Phenanthrene-d10	16.94

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	87
3	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	80
4	3-(2-Naphthyl)acrylaldehyde	182	C13H10O	020884-05-3	80
5	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	74





Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014435.D
Acq On : 01 Mar 2018 11:44
Operator : SJ/JU
Sample : J1678-10 10X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5W0

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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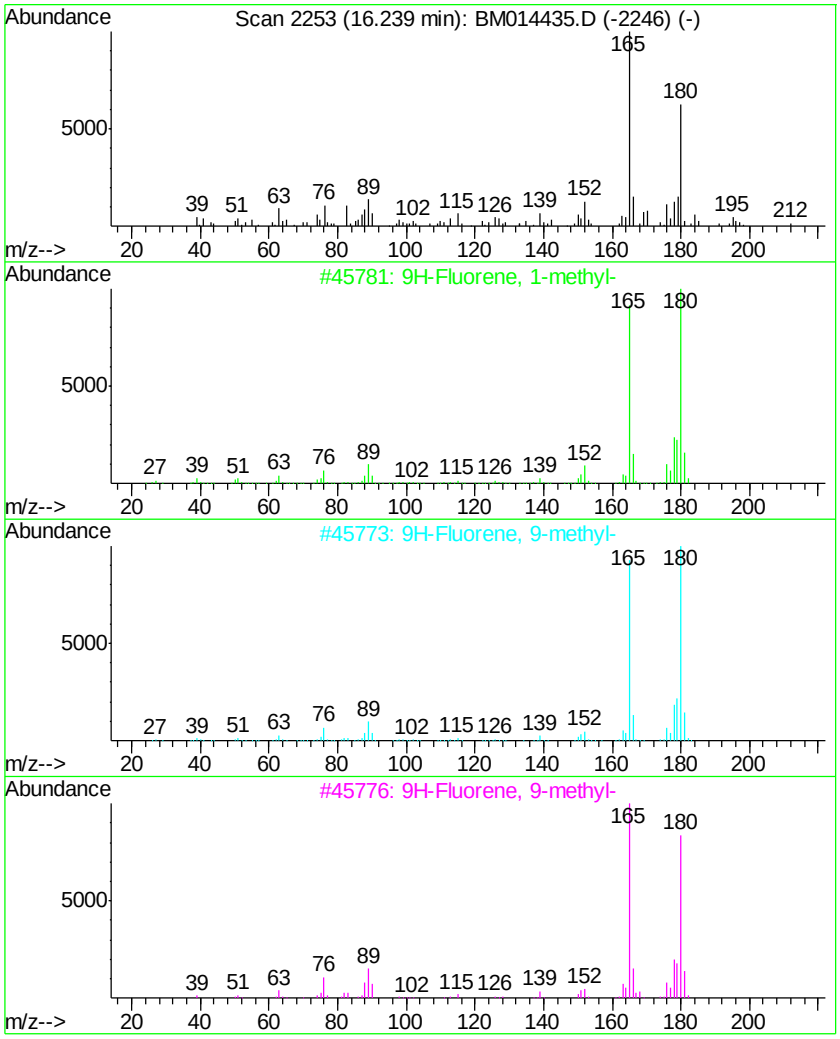
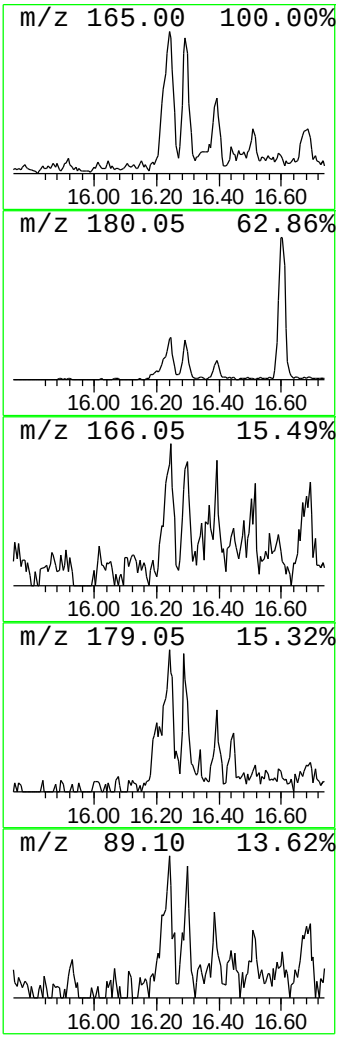
Peak Number 5 9H-Fluorene, 1-methyl- Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.24	2.69 ng/ul	285850	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	78
2	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	60
3	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	60
4	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	60
5	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	60





Library Search Compound Report

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Acq On : 01 Mar 2018 11:44
Operator : SJ/JU
Sample : J1678-10 10X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5W0

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Quant Title : SVOA CALIBRATION

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

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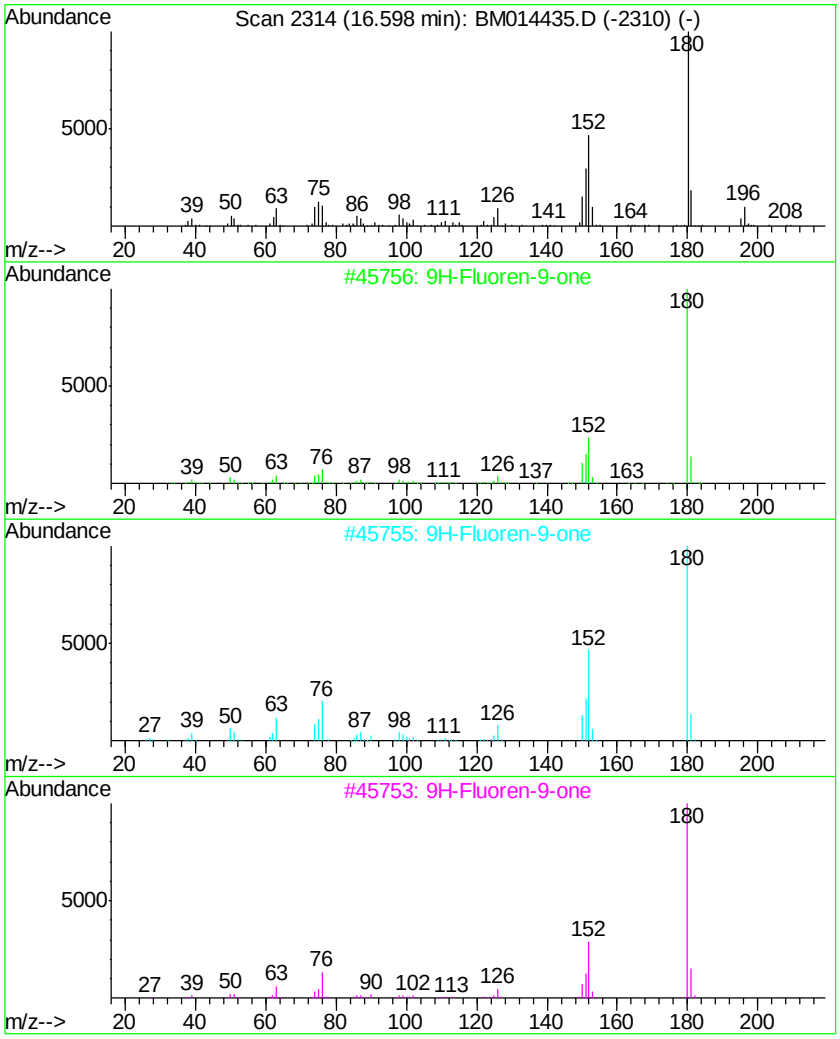
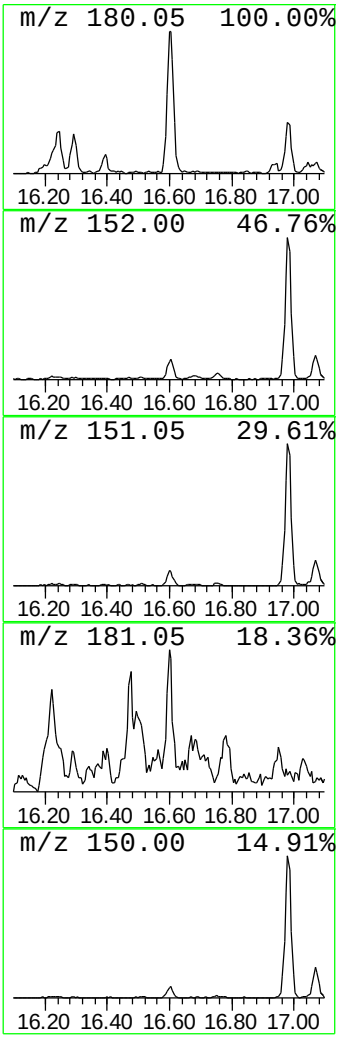
Peak Number 6 9H-Fluoren-9-one Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.60	3.87 ng/ul	411982	Phenanthrene-d10	16.94

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	93
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	91
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	91
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	90





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Quant Title : SVOA CALIBRATION

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

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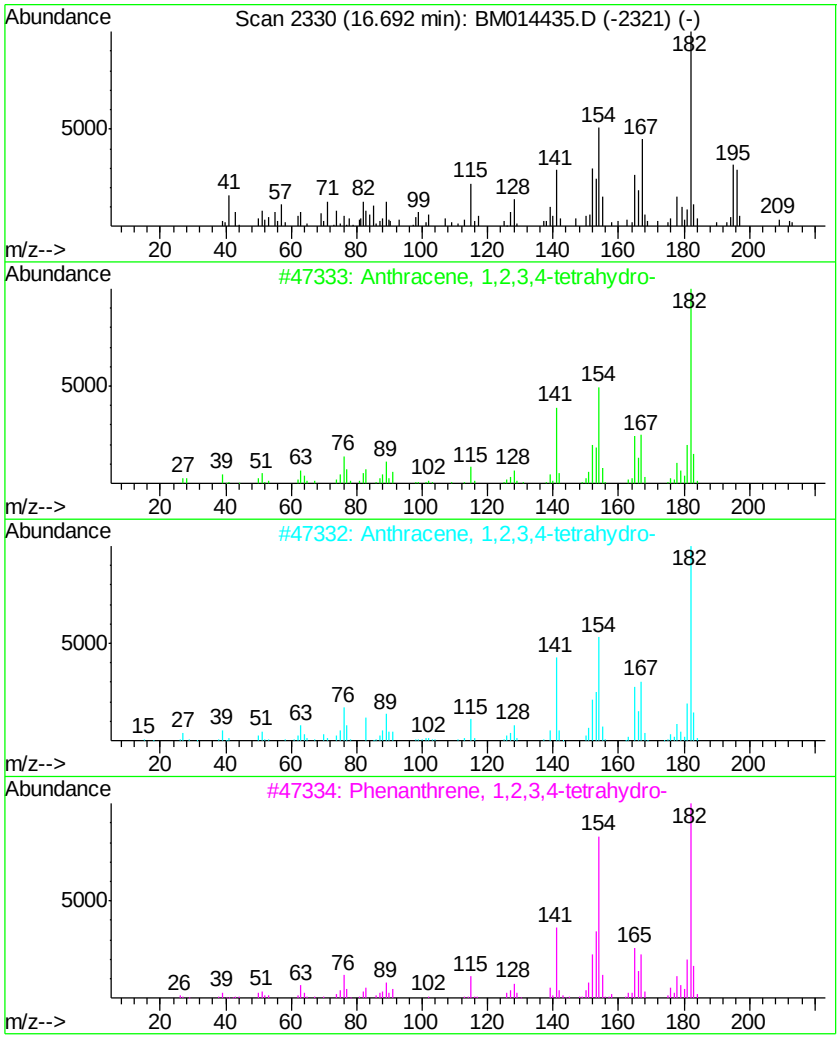
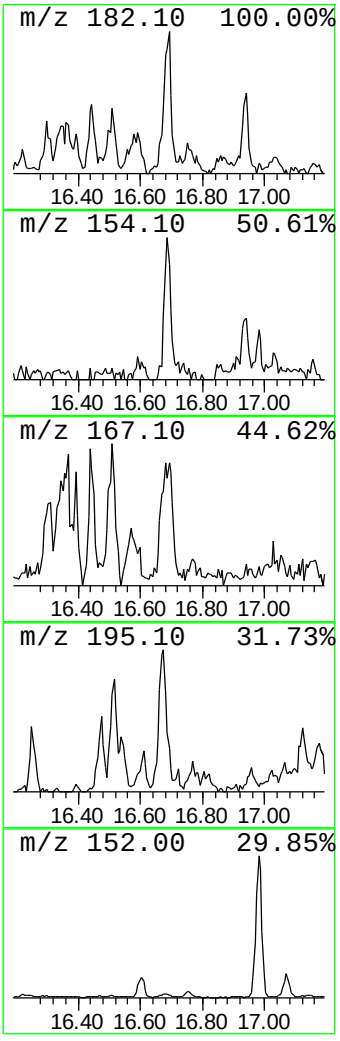
Peak Number 7 Anthracene, 1,2,3,4-tetrahy... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.69	3.27 ng/ul	347617	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	55
2	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	50
3	Phenanthrene, 1,2,3,4-tetrahydro-	182	C14H14	001013-08-7	46
4	Phenanthrene, 1,2,3,4-tetrahydro-	182	C14H14	001013-08-7	45
5	Dibenz[c,e]oxepin, 5,7-dihydro-	196	C14H12O	001136-22-7	38





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ClientSampleId : BE5W0

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Quant Title : SVOA CALIBRATION

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

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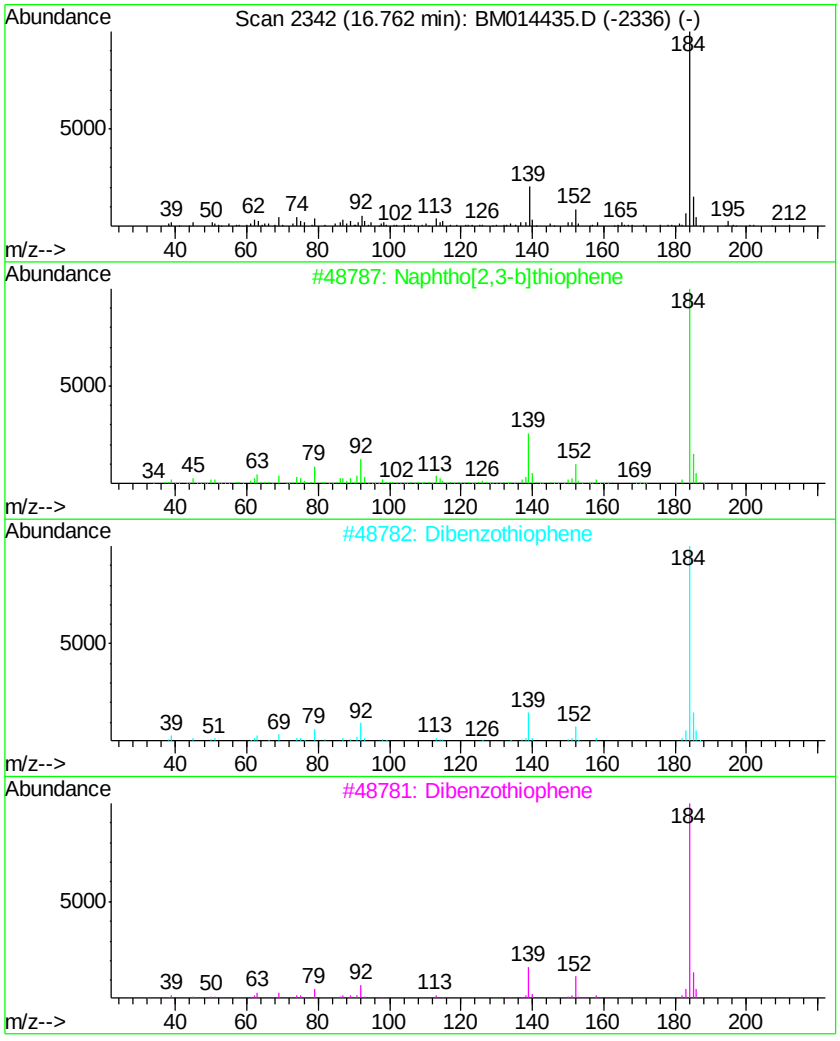
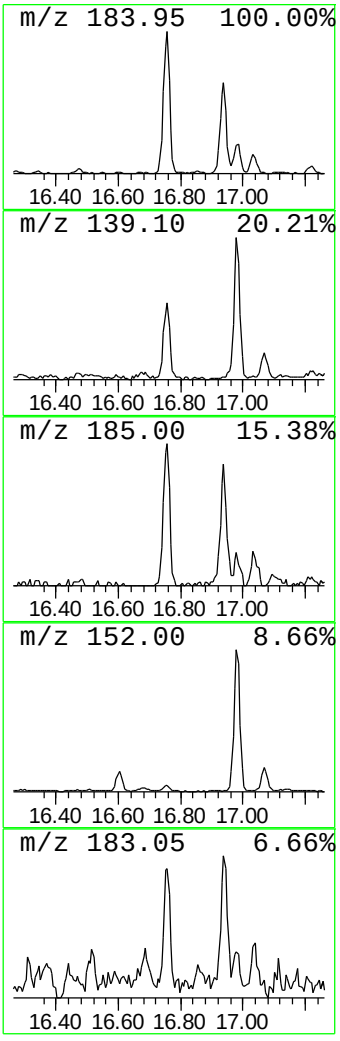
Peak Number 8 Naphtho[2,3-b]thiophene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.76	4.82 ng/ul	512309	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
2	Dibenzothiophene	184	C12H8S	000132-65-0	94
3	Dibenzothiophene	184	C12H8S	000132-65-0	91
4	Dibenzothiophene	184	C12H8S	000132-65-0	91
5	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	91





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Quant Title : SVOA CALIBRATION

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

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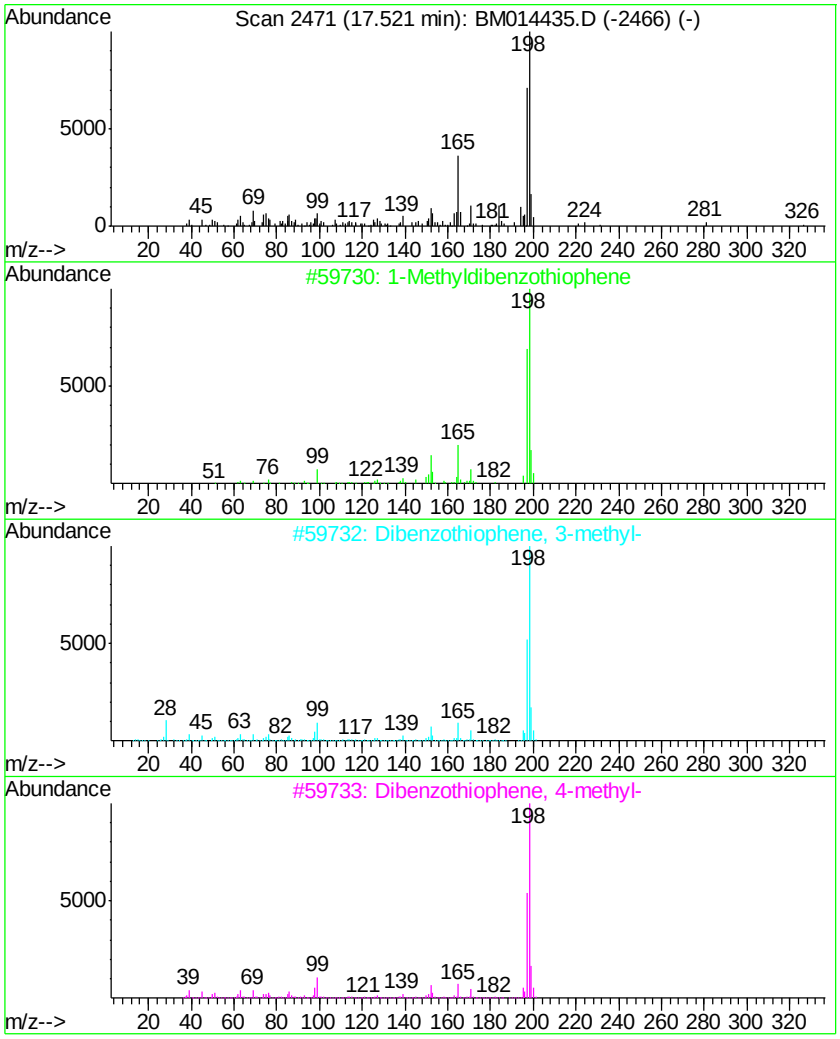
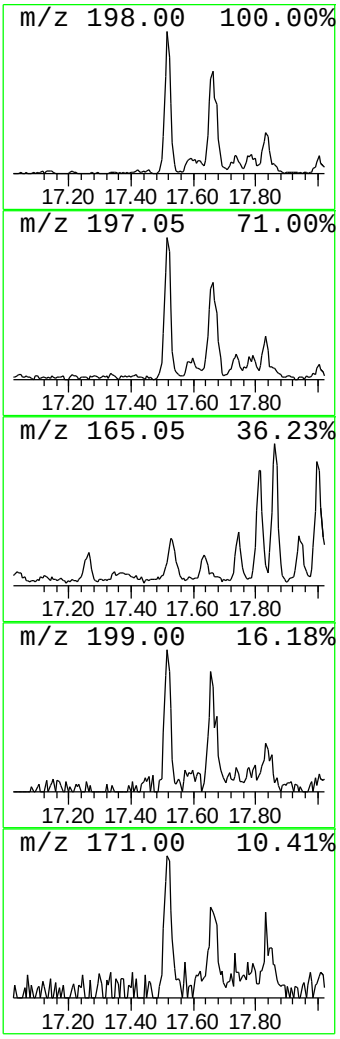
Peak Number 9 1-Methyldibenzothiophene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.52	3.73 ng/ul	396375	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	93
2	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	81
3	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	68
4	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	68
5	Benzene, 1,1'-(1-fluoro-1,2-ethe...	198	C14H11F	000671-19-2	58





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Quant Title : SVOA CALIBRATION

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

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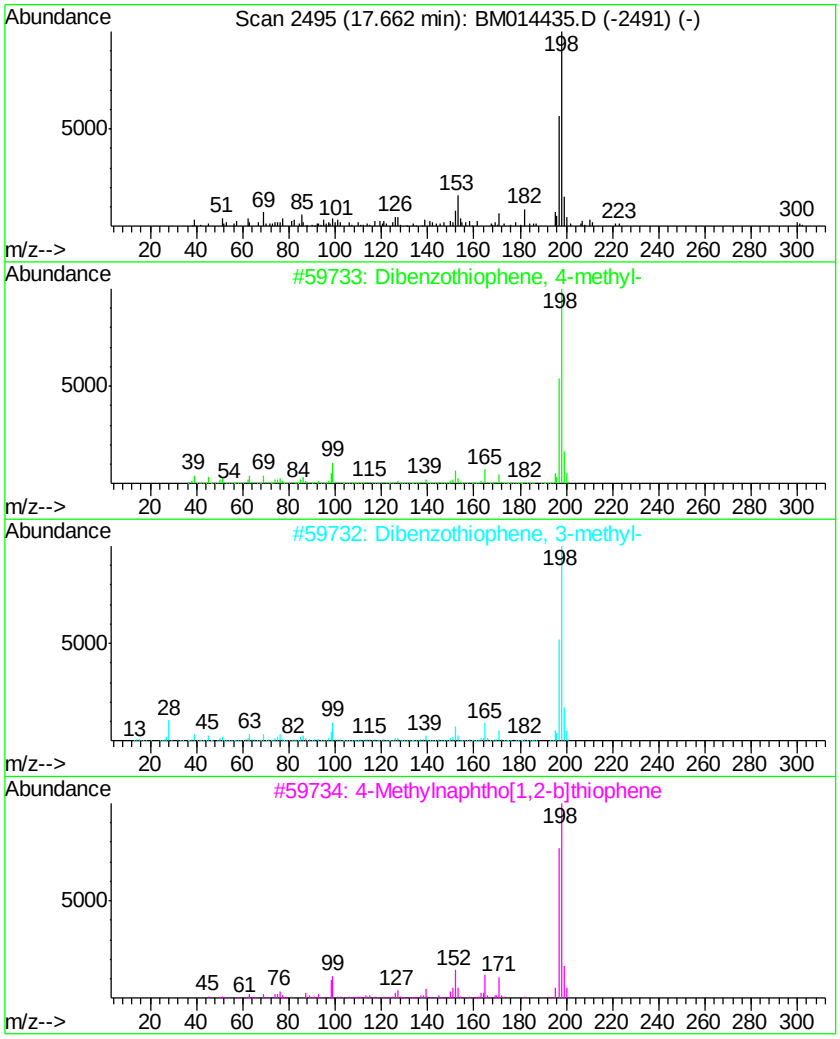
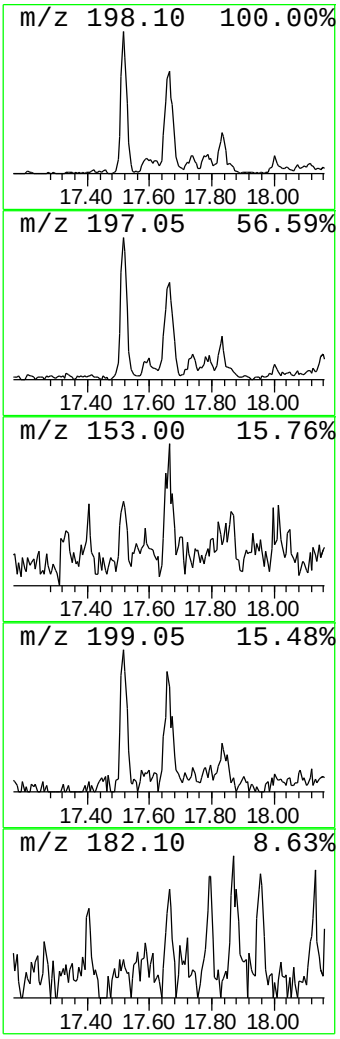
Peak Number 10 Dibenzothiophene, 4-methyl- Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.66	2.04 ng/ul	216755	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	90
2	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	90
3	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	87
4	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	80
5	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	80





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Quant Title : SVOA CALIBRATION

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

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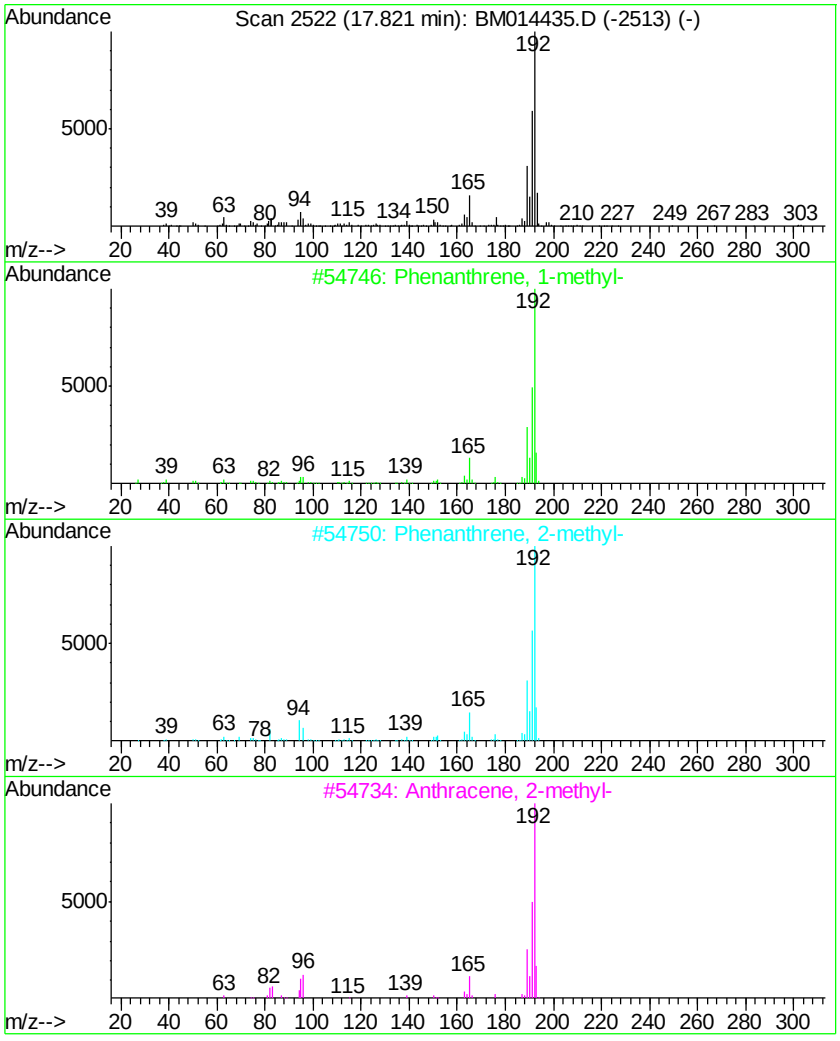
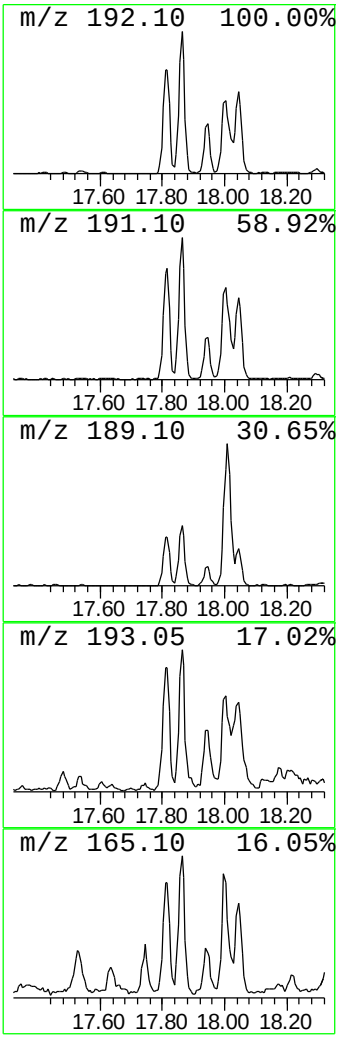
Peak Number 11 Phenanthrene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.82	12.63 ng/ul	1343460	Phenanthrene-d10	16.94

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	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94





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Instrument : BNA_M
ClientSampleId : BE5W0

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Quant Title : SVOA CALIBRATION

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

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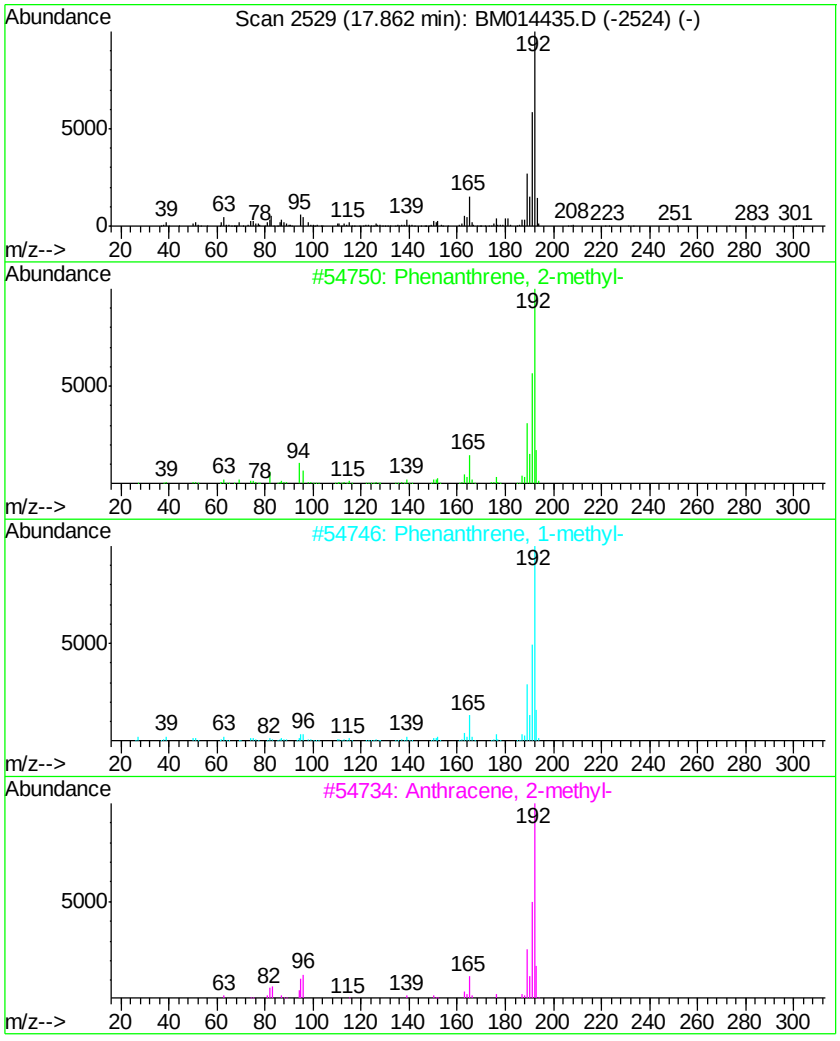
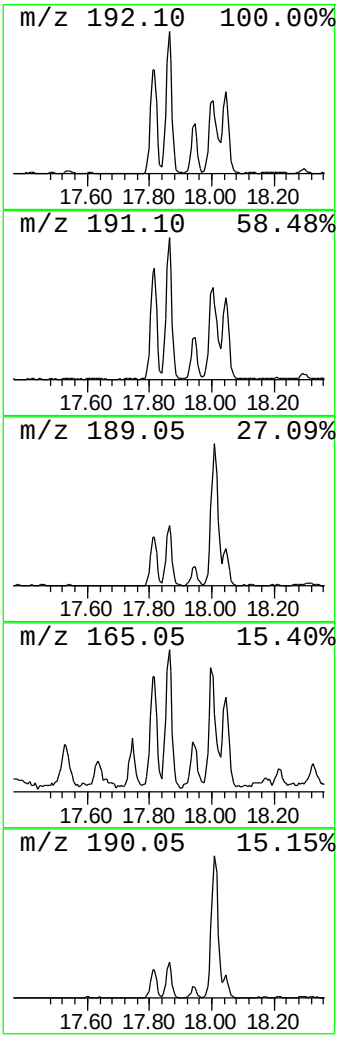
Peak Number 12 Phenanthrene, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.86	16.55 ng/ul	1759940	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95





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Instrument : BNA_M
ClientSampleId : BE5W0

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Quant Title : SVOA CALIBRATION

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

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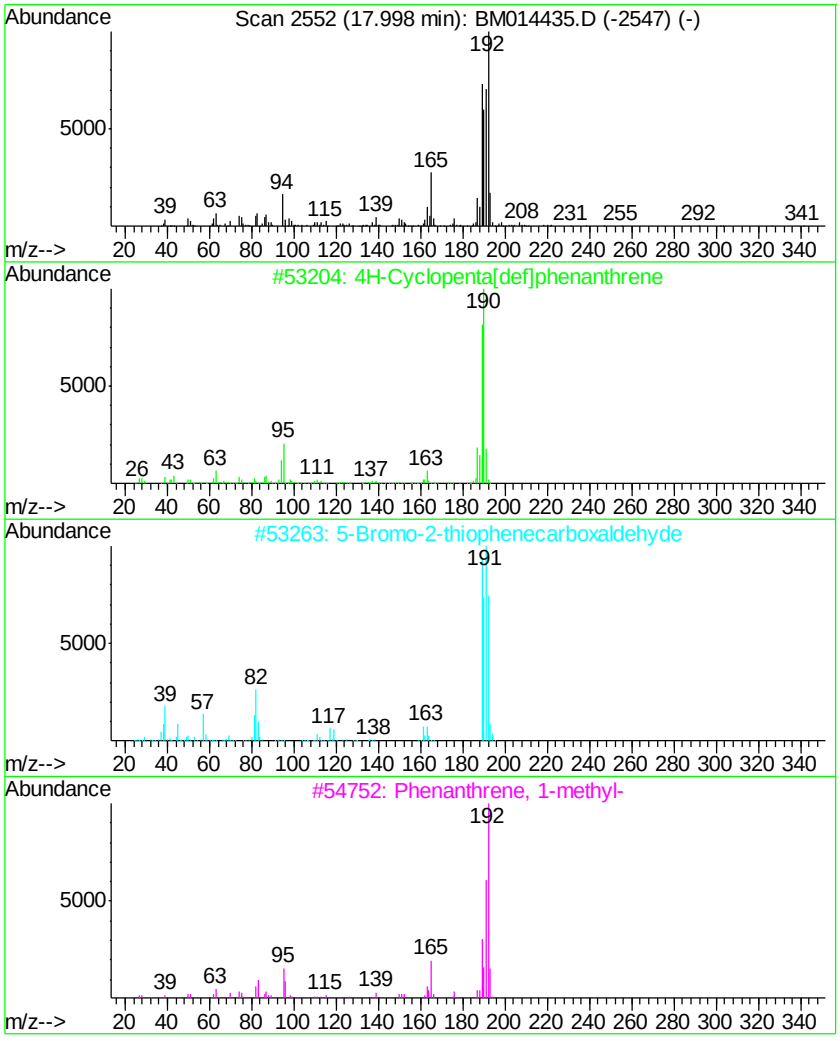
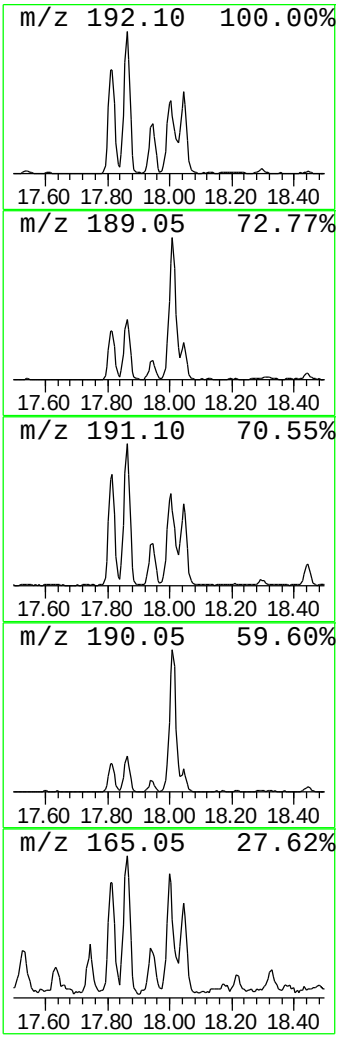
Peak Number 14 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.00	19.44 ng/ul	2066890	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	5-Bromo-2-thiophenecarboxaldehyde	190	C5H3BrOS	004701-17-1	52
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	50
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	46
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	46





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Quant Title : SVOA CALIBRATION

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

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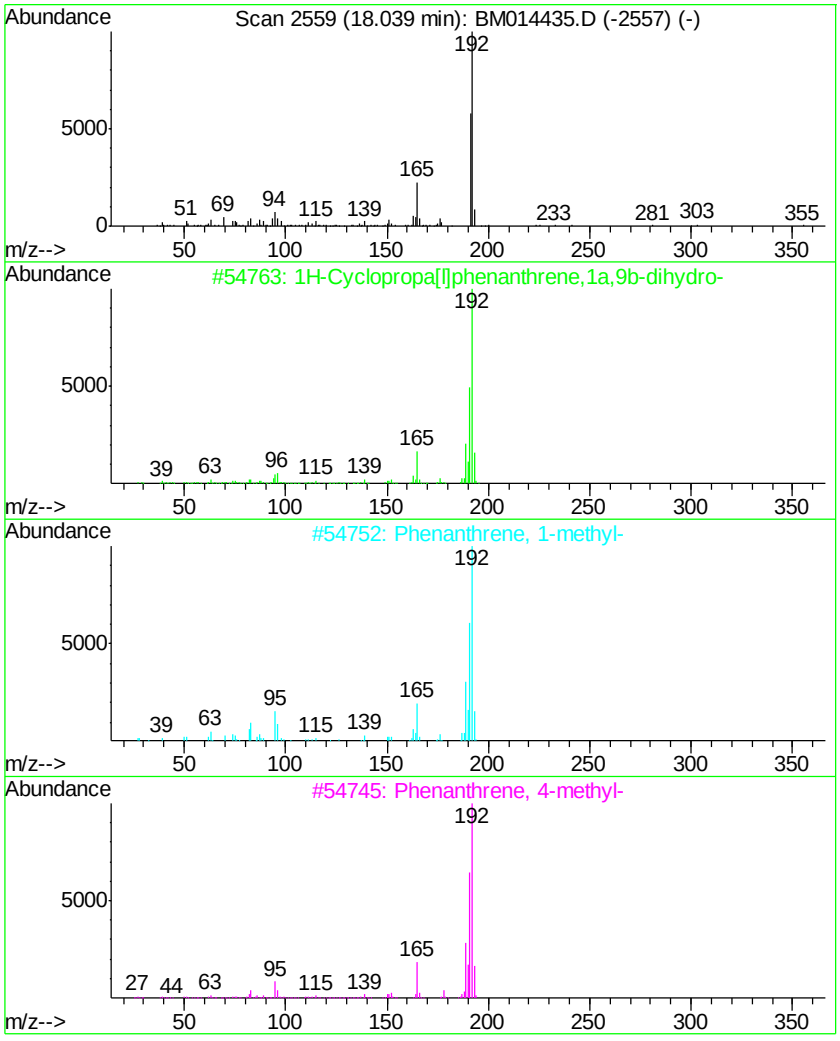
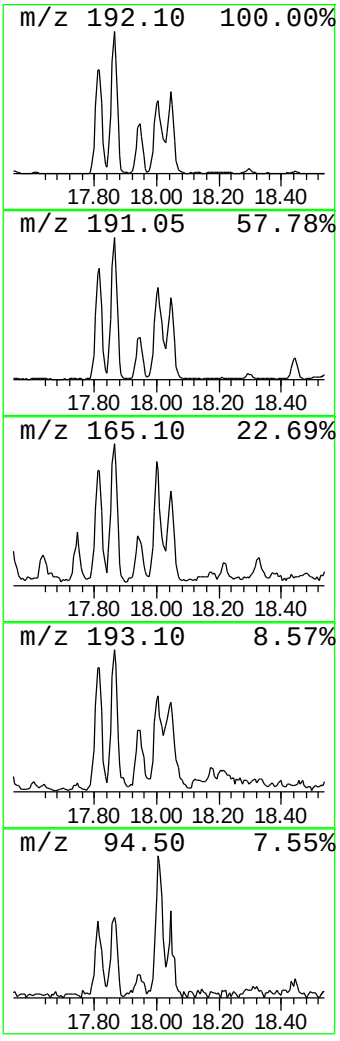
Peak Number 15 1H-Cyclopropa[l]phenanthren... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.04	8.95 ng/ul	951964	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	87
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	87
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	87





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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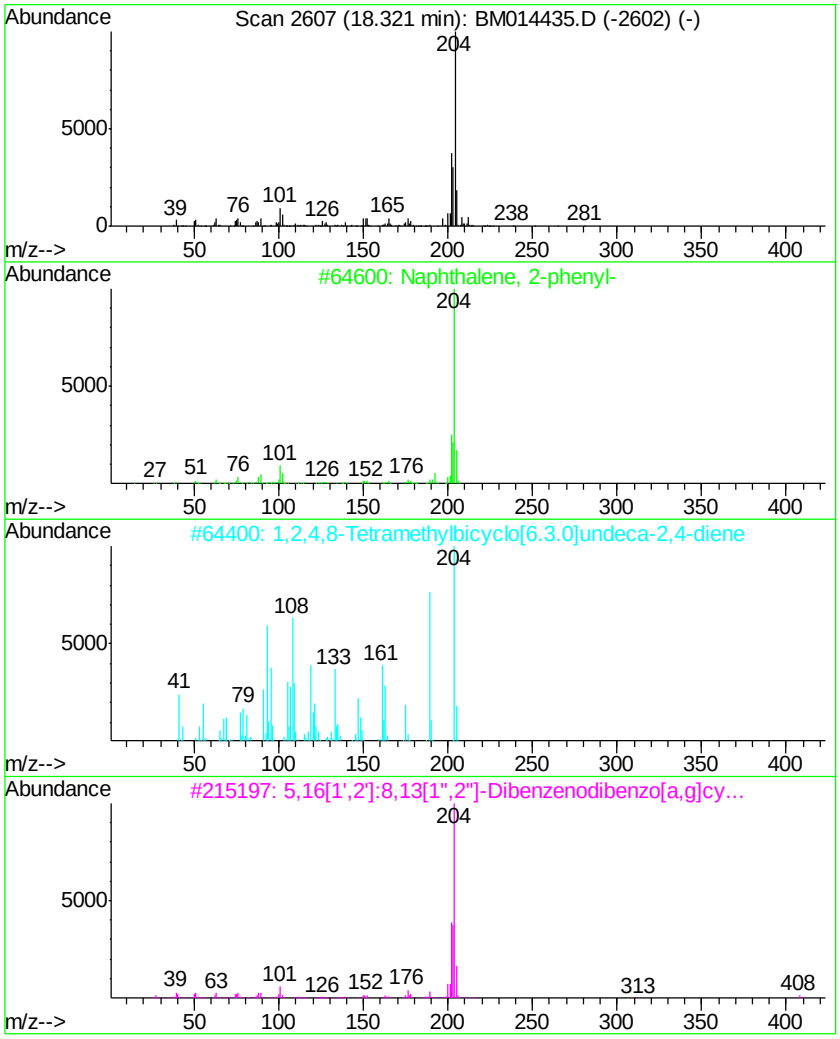
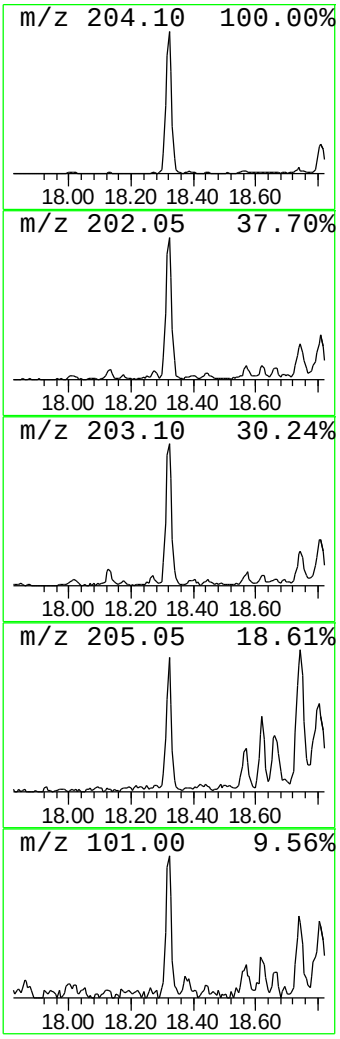
Peak Number 16 Naphthalene, 2-phenyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.32	6.72 ng/ul	714174	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	90
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	86
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	81
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	81





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Quant Title : SVOA CALIBRATION

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

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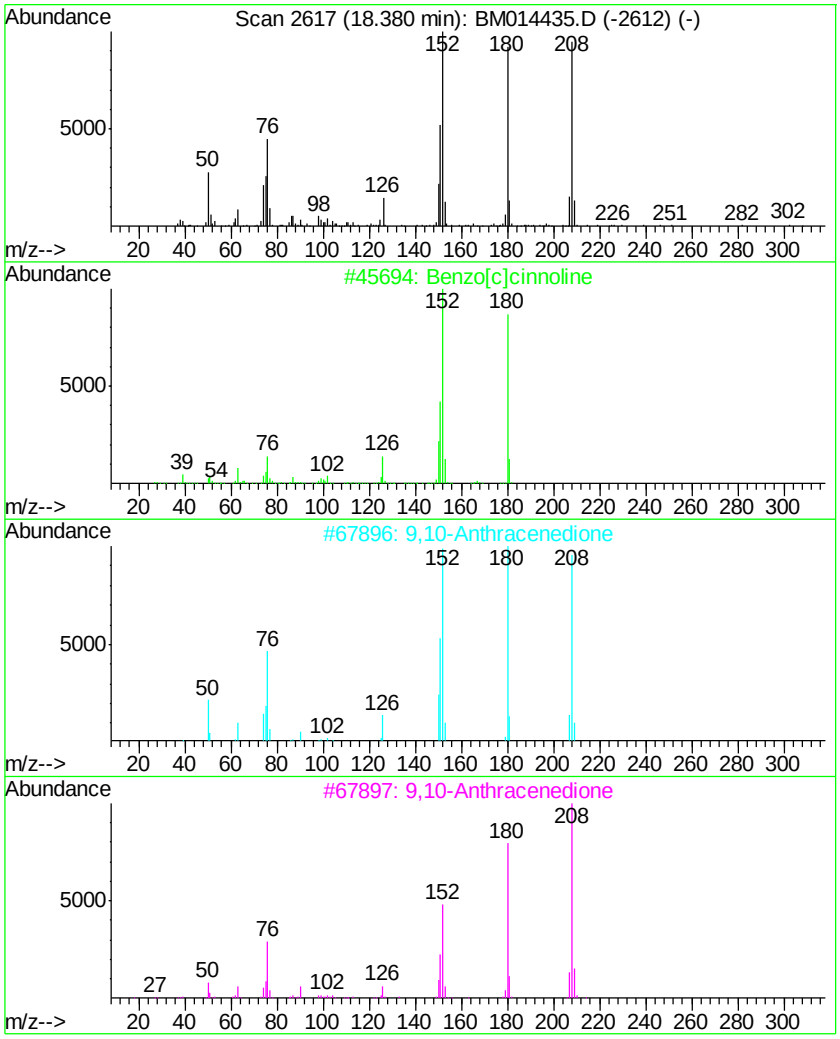
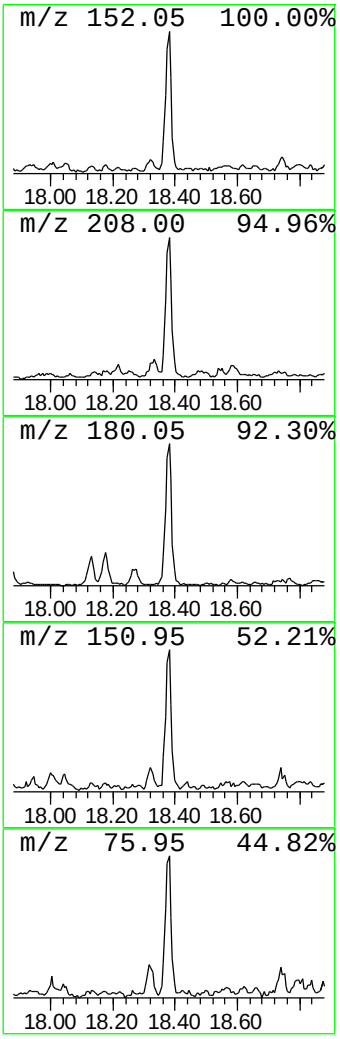
Peak Number 17 Benzo[c]cinnoline Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.38	7.95 ng/ul	845357	Phenanthrene-d10	16.94

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	95
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	93
4	9,10-Anthracenedione	208	C14H8O2	000084-65-1	93
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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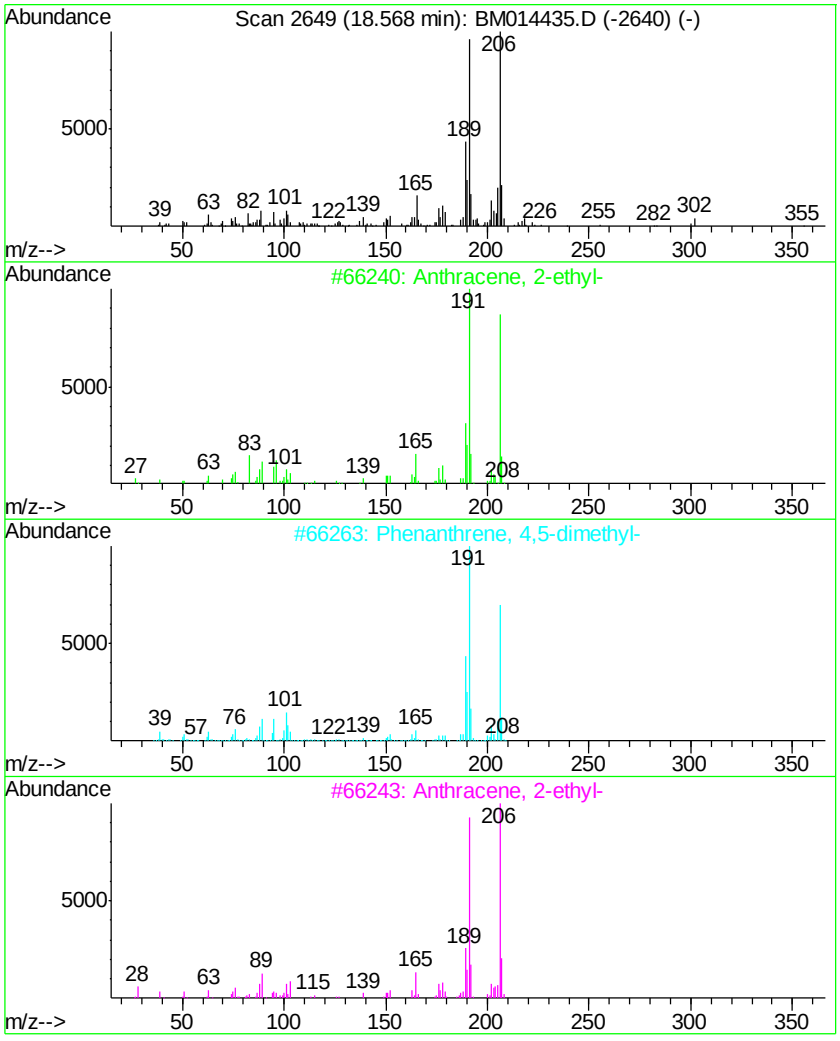
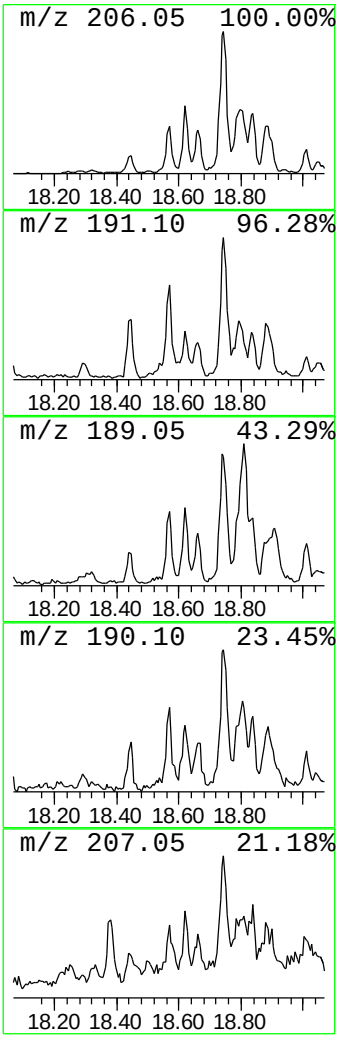
Peak Number 18 Anthracene, 2-ethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.57	5.08 ng/ul	540194	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	97
2	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	94
3	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	94
4	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93
5	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	93





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Data File : BM014435.D
Acq On : 01 Mar 2018 11:44
Operator : SJ/JU
Sample : J1678-10 10X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5W0

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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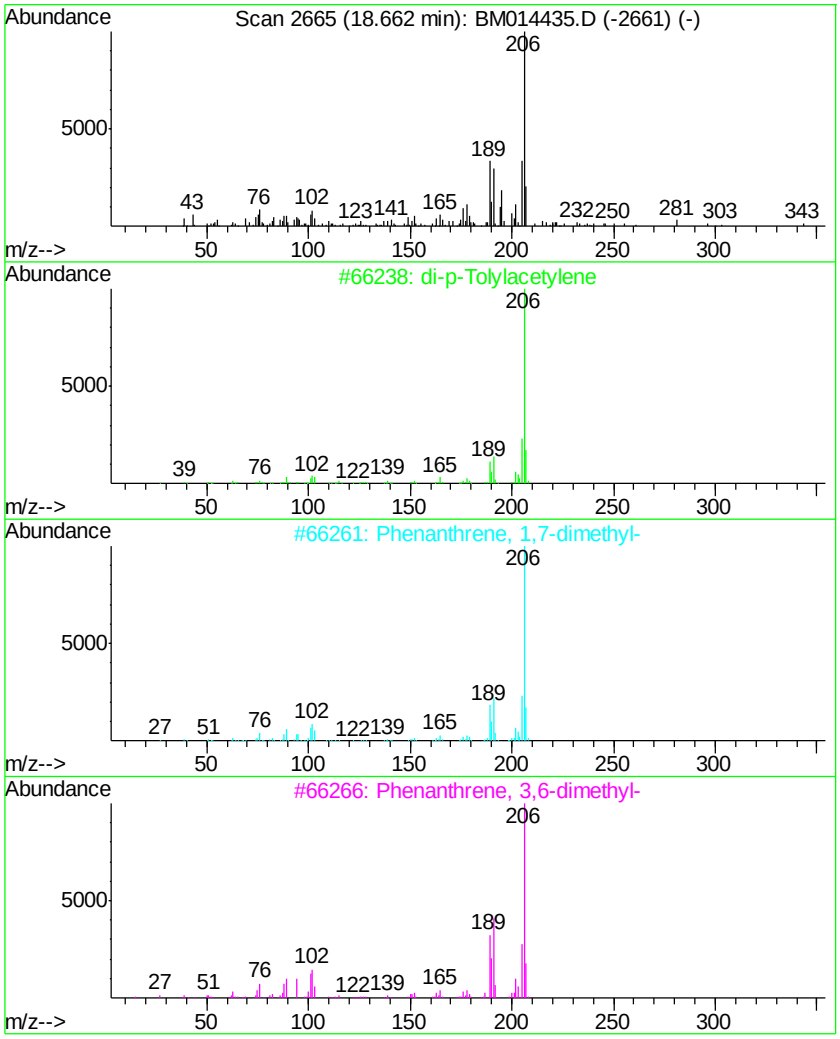
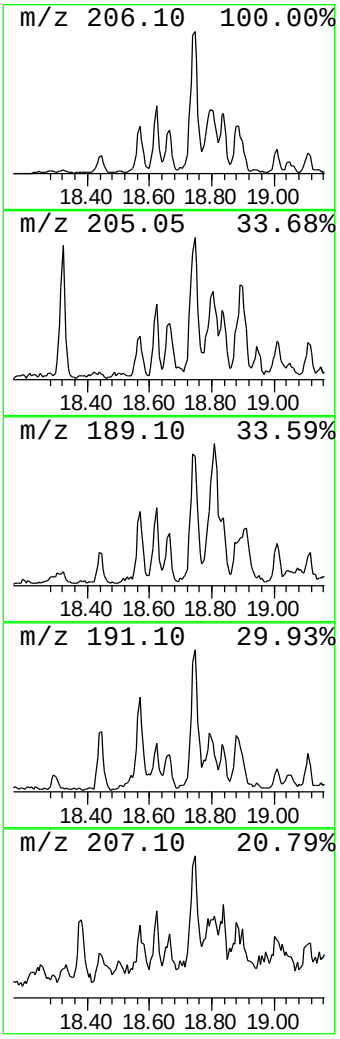
Peak Number 20 di-p-Tolylacetylene Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.66	2.64 ng/ul	280631	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	76
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	74
4	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	70
5	di-p-Tolylacetylene	206	C16H14	002789-88-0	68





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Sample : J1678-10 10X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5W0

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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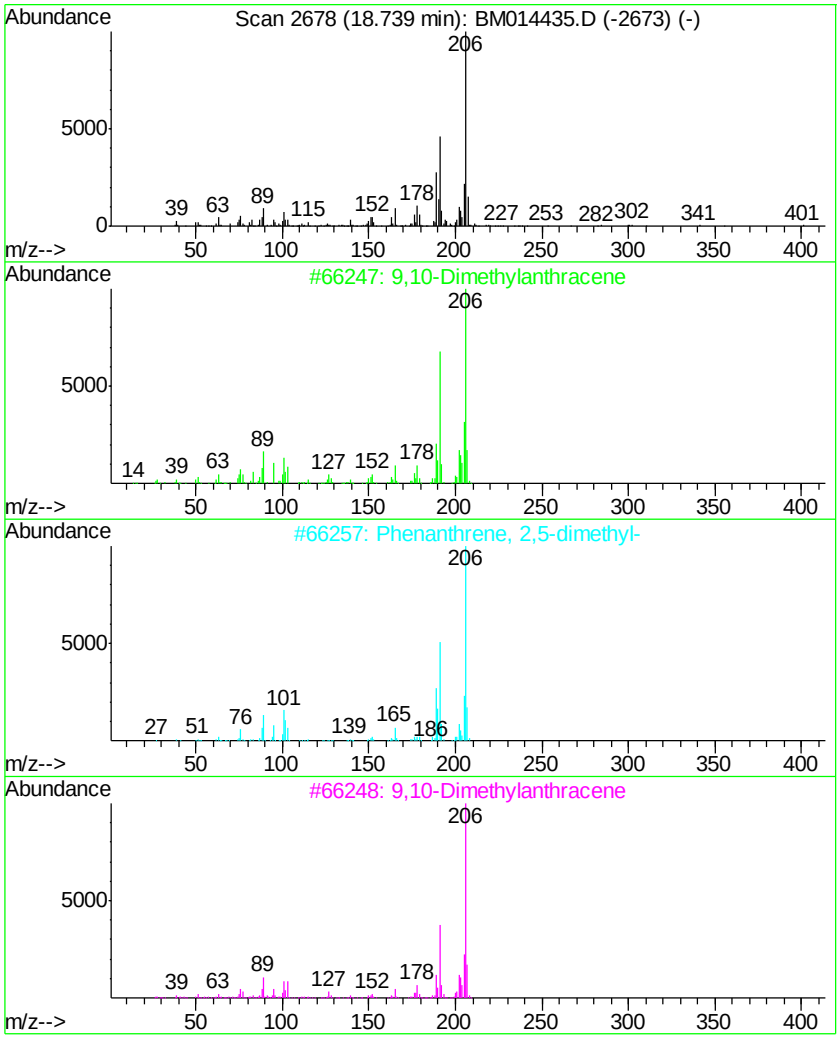
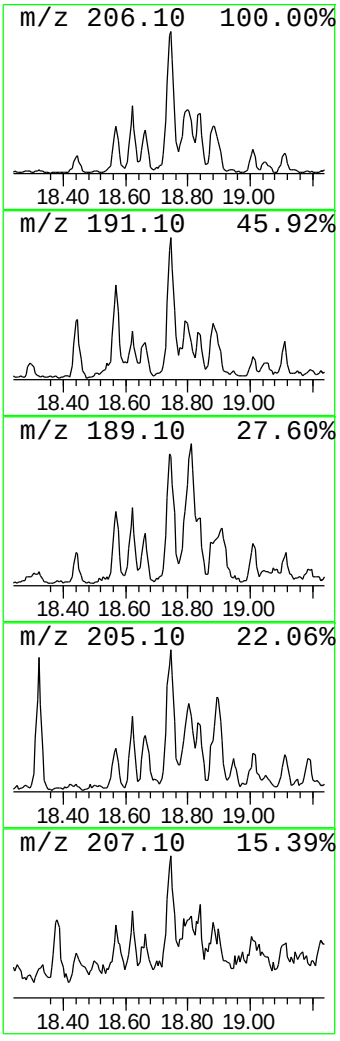
Peak Number 21 9,10-Dimethylanthracene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.74	8.83 ng/ul	939142	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90





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Operator : SJ/JU
Sample : J1678-10 10X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5W0

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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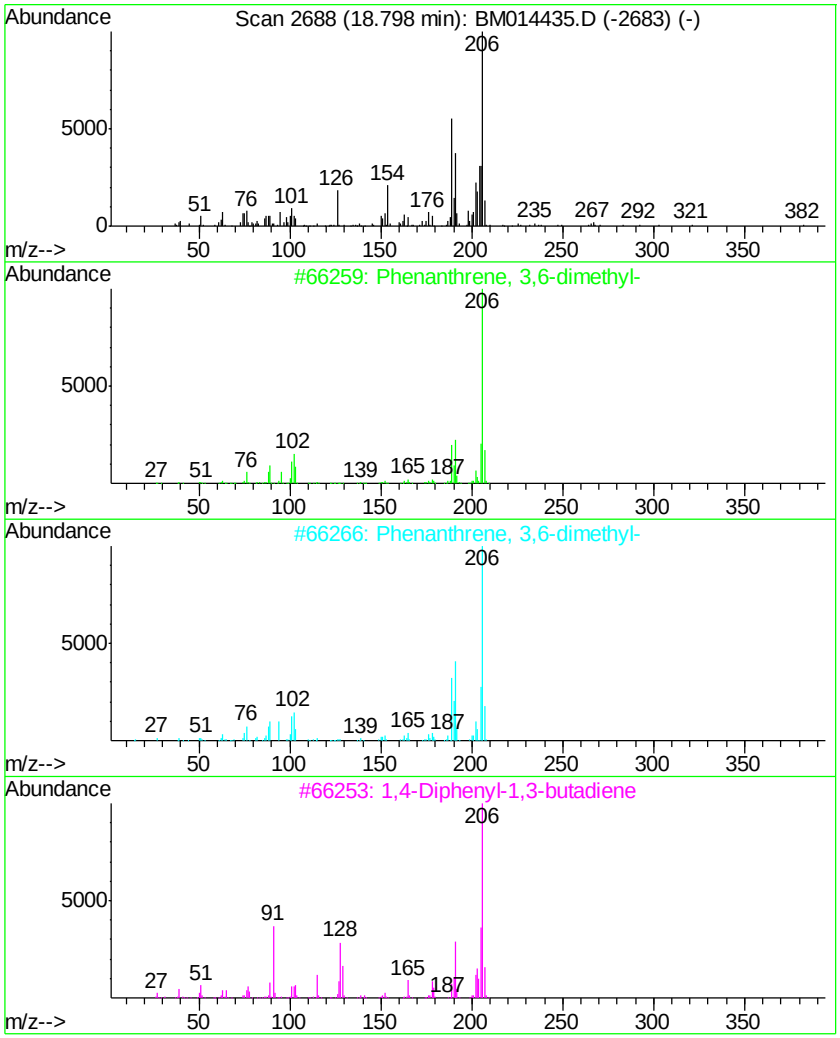
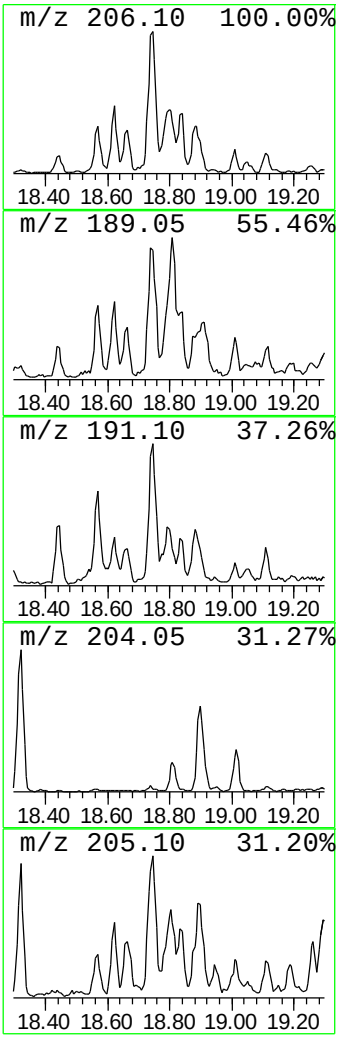
Peak Number 22 unknown-01 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.80	6.93 ng/ul	736842	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	38
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	38
3	1,4-Diphenyl-1,3-butadiene	206	C16H14	000886-65-7	38
4	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	38
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	35





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Operator : SJ/JU
Sample : J1678-10 10X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5W0

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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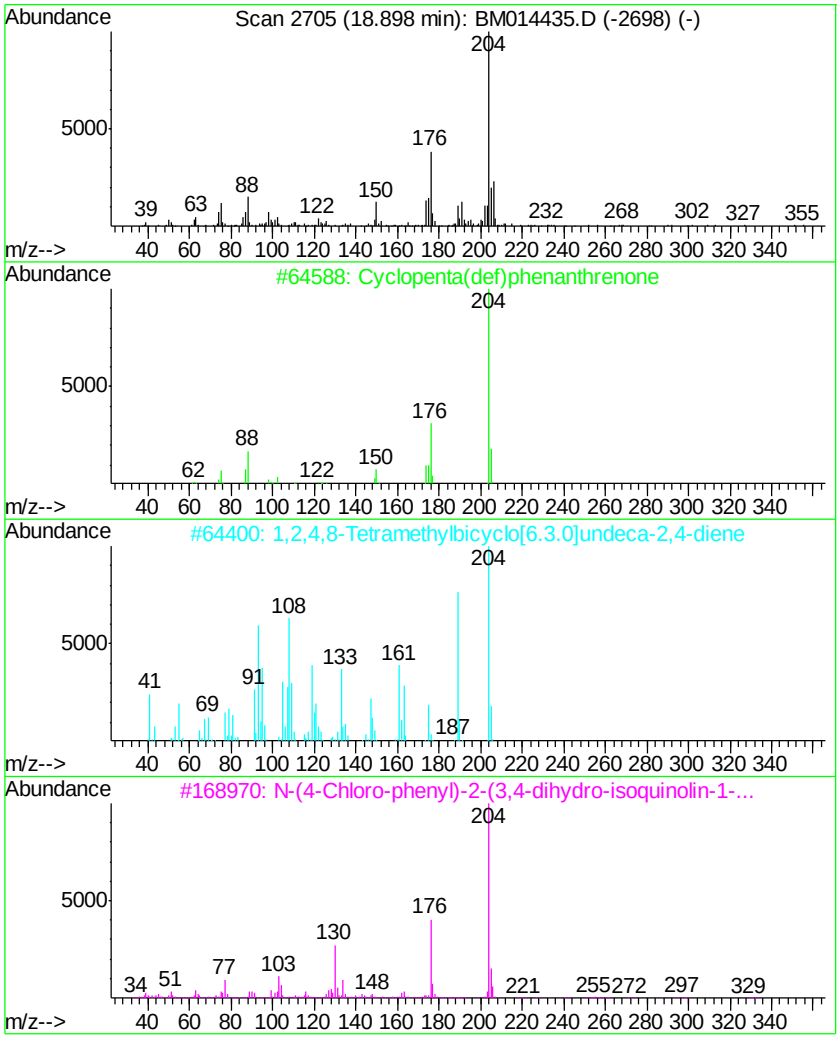
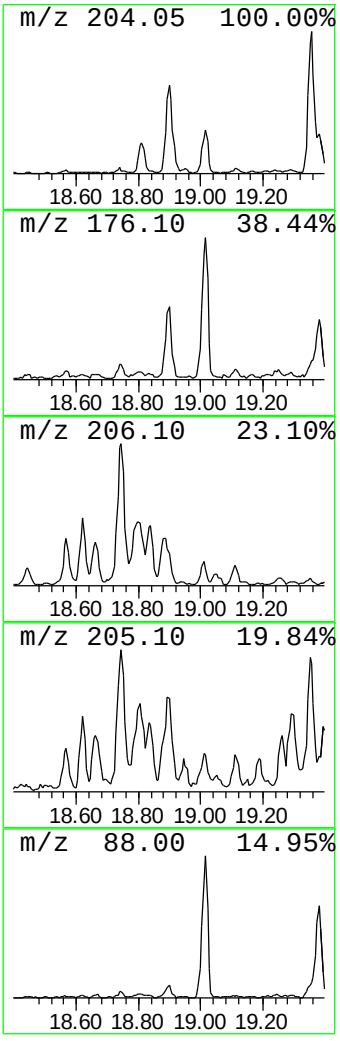
Peak Number 23 Cyclopenta(def)phenanthrenone Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.90	8.63 ng/ul	917377	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	92
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	87
3	N-(4-Chloro-phenyl)-2-(3,4-dihyd...	330	C17H15ClN2OS	1000296-34-3	53
4	4(equat)-(but-3-en-1-ynyl)-2(axi...	219	C14H21NO	038423-22-2	50
5	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	38





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Operator : SJ/JU
Sample : J1678-10 10X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5W0

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Quant Title : SVOA CALIBRATION

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

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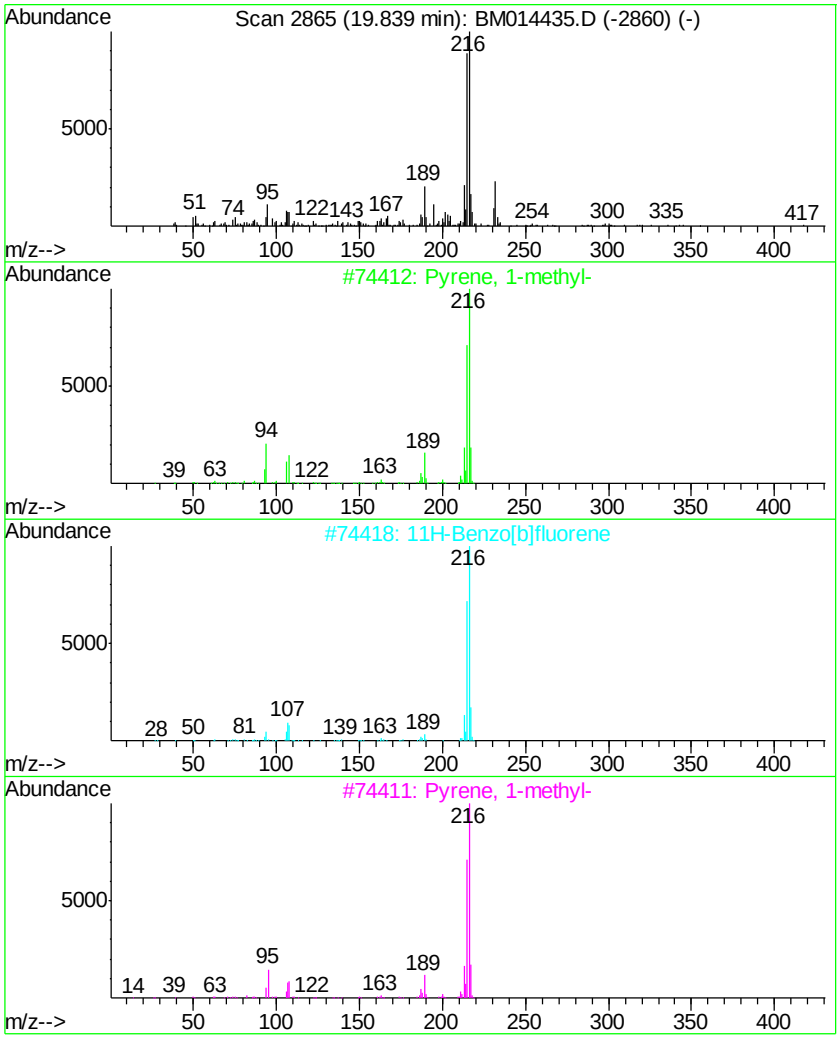
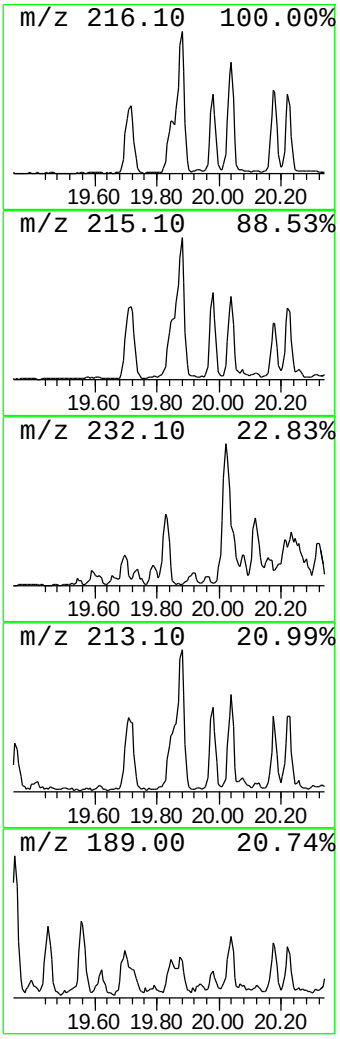
Peak Number 25 Pyrene, 1-methyl- Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.84	2.08 ng/ul	796191	Chrysene-d12	21.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	76
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	74





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Operator : SJ/JU
Sample : J1678-10 10X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5W0

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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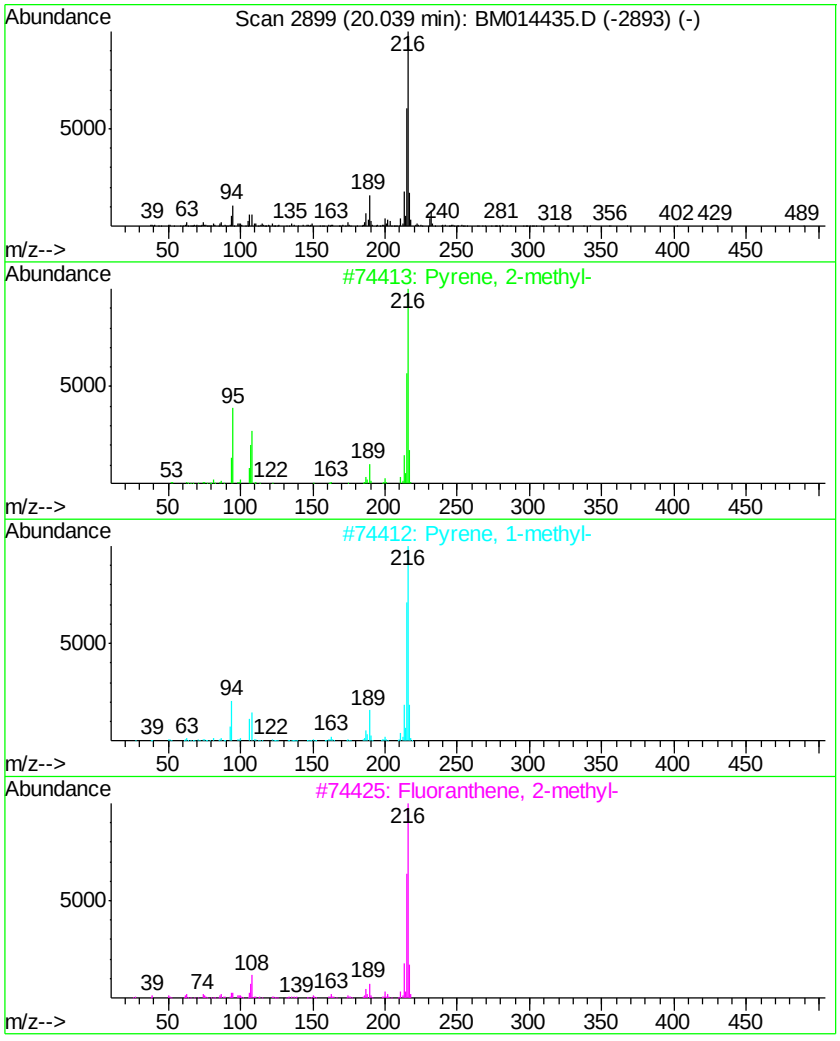
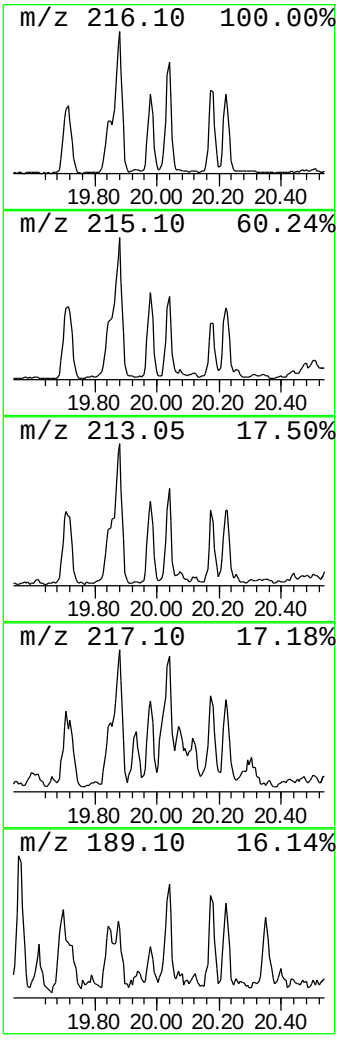
Peak Number 27 Pyrene, 2-methyl- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.04	2.73 ng/ul	1043770	Chrysene-d12	21.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	89
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	81





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Acq On : 01 Mar 2018 11:44
Operator : SJ/JU
Sample : J1678-10 10X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5W0

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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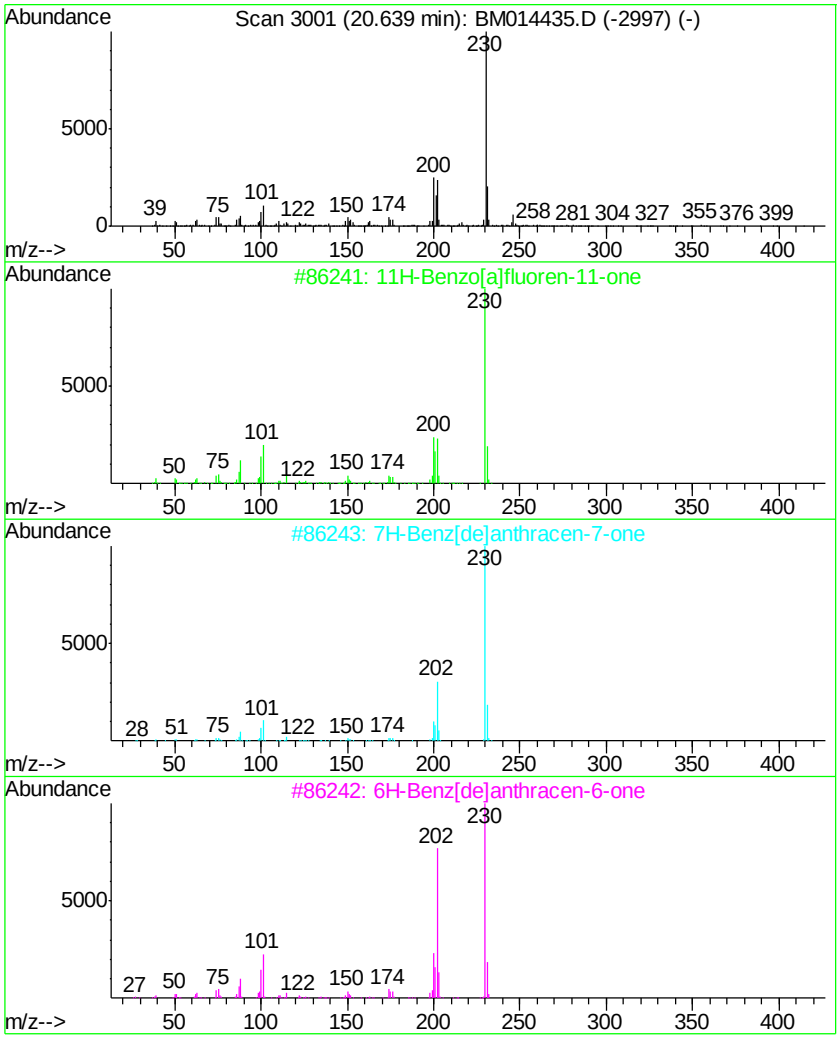
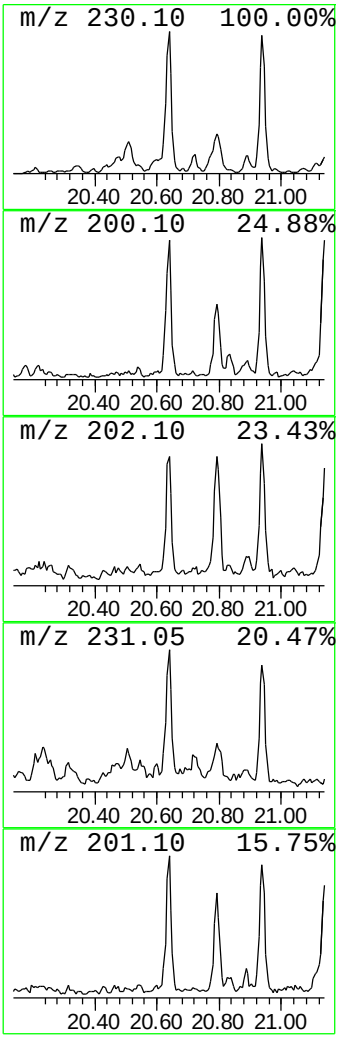
Peak Number 28 11H-Benzo[a]fluoren-11-one Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.64	2.43 ng/ul	929508	Chrysene-d12	21.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	96
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	76
3	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	76
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	76
5	4-Pyrenecarbaldehyde	230	C17H10O	022245-51-8	72





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Operator : SJ/JU
Sample : J1678-10 10X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5W0

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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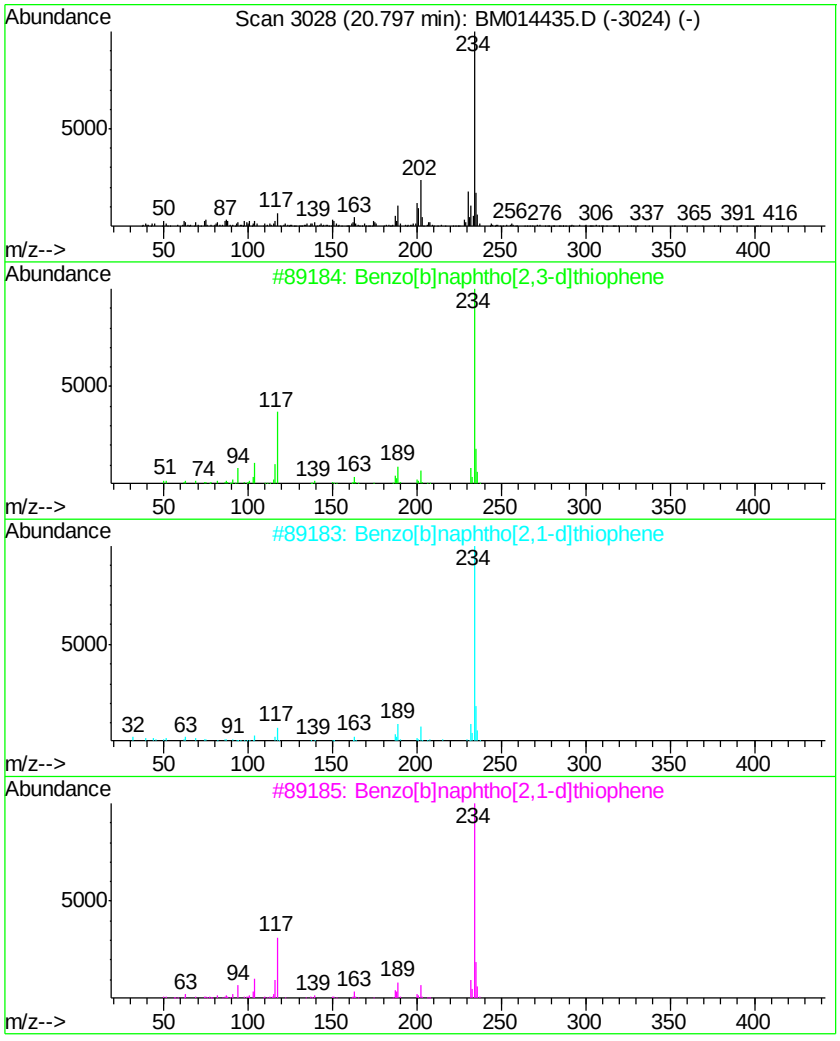
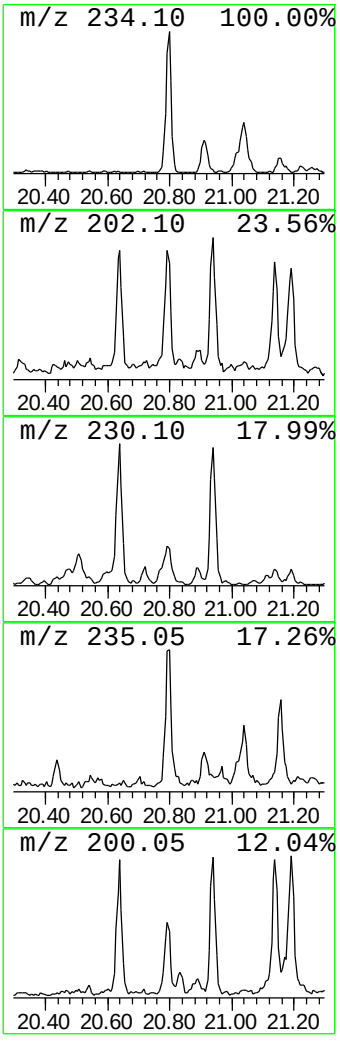
Peak Number 29 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.80	2.14 ng/ul	820250	Chrysene-d12	21.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	76
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	76
3	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	76
4	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	76
5	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	70





Tentatively Identified Compound (LSC) summary

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Data File : BM014435.D
Acq On : 01 Mar 2018 11:44
Operator : SJ/JU
Sample : J1678-10 10X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5W0

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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-me...	12.18	3.2	ng/ul	207706	2	10.29	1284110	20.0
Naphthalene, 2,7-...	13.49	2.9	ng/ul	261498	3	14.17	1793930	20.0
9H-Fluoren-9-ol	15.53	3.0	ng/ul	267974	3	14.17	1793930	20.0
Dibenzofuran, 4-m...	15.68	2.5	ng/ul	265124	4	16.94	2126930	20.0
9H-Fluorene, 1-me...	16.24	2.7	ng/ul	285850	4	16.94	2126930	20.0
9H-Fluoren-9-one	16.60	3.9	ng/ul	411982	4	16.94	2126930	20.0
Anthracene, 1,2,3...	16.69	3.3	ng/ul	347617	4	16.94	2126930	20.0
Naphtho[2,3-b]thi...	16.76	4.8	ng/ul	512309	4	16.94	2126930	20.0
1-Methyldibenzoth...	17.52	3.7	ng/ul	396375	4	16.94	2126930	20.0
Dibenzothiophene,...	17.66	2.0	ng/ul	216755	4	16.94	2126930	20.0
Phenanthrene, 1-m...	17.82	12.6	ng/ul	1343460	4	16.94	2126930	20.0
Phenanthrene, 2-m...	17.86	16.6	ng/ul	1759940	4	16.94	2126930	20.0
4H-Cyclopenta[def...	18.00	19.4	ng/ul	2066890	4	16.94	2126930	20.0
1H-Cyclopropa[l]p...	18.04	8.9	ng/ul	951964	4	16.94	2126930	20.0
Naphthalene, 2-ph...	18.32	6.7	ng/ul	714174	4	16.94	2126930	20.0
Benzo[c]cinnoline	18.38	8.0	ng/ul	845357	4	16.94	2126930	20.0
Anthracene, 2-ethyl-	18.57	5.1	ng/ul	540194	4	16.94	2126930	20.0
di-p-Tolylacetylene	18.66	2.6	ng/ul	280631	4	16.94	2126930	20.0
9,10-Dimethylanth...	18.74	8.8	ng/ul	939142	4	16.94	2126930	20.0
unknown-01	18.80	6.9	ng/ul	736842	4	16.94	2126930	20.0
Cyclopenta(def)ph...	18.90	8.6	ng/ul	917377	4	16.94	2126930	20.0
Pyrene, 1-methyl-	19.84	2.1	ng/ul	796191	5	21.15	7655020	20.0
Pyrene, 2-methyl-	20.04	2.7	ng/ul	1043770	5	21.15	7655020	20.0
11H-Benzo[a]fluor...	20.64	2.4	ng/ul	929508	5	21.15	7655020	20.0
Benzo[b]naphtho[2...	20.80	2.1	ng/ul	820250	5	21.15	7655020	20.0