LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM030118\
Data File : BM014440.D
Acq On : 01 Mar 2018 19:34
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5X6

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	6.716	628	634	645	rBV	313560	640498	2.74%	0.288%
2	6.864	652	659	671	rVB	251699	411859	1.76%	0.185%
3	7.052	685	691	700	rBV2	364871	607343	2.60%	0.273%
4	7.511	763	769	778	rBV	349784	573587	2.45%	0.258%
5	8.240	886	893	905	rBV2	424028	792597	3.39%	0.357%
6	8.669	958	966	977	rBV	437251	814123	3.48%	0.366%
7	9.387	1080	1088	1096	rBV	347272	646886	2.77%	0.291%
8	9.934	1174	1181	1195	rBV	404271	902329	3.86%	0.406%
9	10.281	1230	1240	1245	rBV	542090	900923	3.85%	0.405%
10	10.451	1260	1269	1283	rBV2	159676	393057	1.68%	0.177%
11	13.487	1779	1785	1790	rBV2	151393	267650	1.14%	0.120%
12	13.592	1798	1803	1808	rBV	988037	1341756	5.74%	0.604%
13	13.640	1808	1811	1818	rVB	252439	350335	1.50%	0.158%
14	13.863	1841	1849	1852	rBV	1091126	1758139	7.52%	0.791%
15	13.892	1852	1854	1862	rVB	387085	477407	2.04%	0.215%
16	14.169	1892	1901	1907	rBV2	833045	1385587	5.92%	0.623%
17	14.234	1907	1912	1921	rVB	378549	579653	2.48%	0.261%
18	14.451	1944	1949	1961	rBV4	248186	701752	3.00%	0.316%
19	14.581	1965	1971	1977	rVV	355229	570301	2.44%	0.257%
20	15.175	2066	2072	2077	rBV	1421065	1936969	8.28%	0.871%
21	15.234	2077	2082	2088	rVB	606927	917656	3.92%	0.413%
22	15.351	2093	2102	2106	rBV3	375225	728478	3.11%	0.328%
23	15.528	2127	2132	2140	rVB	313447	490128	2.10%	0.221%
24	15.675	2148	2157	2164	rBV	296278	656184	2.81%	0.295%
25	16.239	2241	2253	2258	rBV3	285709	637802	2.73%	0.287%
26	16.469	2283	2292	2295	rBV3	221623	391786	1.68%	0.176%
27	16.598	2310	2314	2320	rVB	291618	443062	1.89%	0.199%
28	16.669	2320	2326	2327	rBV2	245514	327161	1.40%	0.147%
29	16.751	2335	2340	2349	rVB	447059	738229	3.16%	0.332%
30	16.933	2365	2371	2374	rBV	1082956	1594780	6.82%	0.717%
31	16.980	2374	2379	2384	rVV	9454575	13022804	55.68%	5.859%
32	17.033	2384	2388	2391	rVV2	1595801	2316457	9.90%	1.042%
33	17.069	2391	2394	2400	rVV	2086725	2680654	11.46%	1.206%
34	17.139	2400	2406	2410	rVV3	128197	267617	1.14%	0.120%

LSC Area Percent Report

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Data File : BM014440.D
Acq On : 01 Mar 2018 19:34
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5X6

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	17.351	2434	2442	2454	rBV3	307896	891784	3.81%	0.401%
36	17.451	2456	2459	2466	rVV2	223446	402162	1.72%	0.181%
37	17.516	2467	2470	2479	rVB5	163647	412687	1.76%	0.186%
38	17.810	2515	2520	2524	rBV	1278192	1774473	7.59%	0.798%
39	17.863	2524	2529	2536	rVB	1844057	2802075	11.98%	1.261%
40	17.939	2536	2542	2547	rBV	649930	940740	4.02%	0.423%
41	18.004	2547	2553	2557	rBV3	1761596	3047632	13.03%	1.371%
42	18.045	2557	2560	2569	rVB	823222	1181377	5.05%	0.531%
43	18.316	2602	2606	2611	rVV	948950	1250594	5.35%	0.563%
44	18.380	2612	2617	2622	rVB	610809	873937	3.74%	0.393%
45	18.563	2642	2648	2653	rBV2	292002	493825	2.11%	0.222%
46	18.616	2653	2657	2661	rVV	305822	378567	1.62%	0.170%
47	18.657	2661	2664	2669	rVB	298643	406296	1.74%	0.183%
48	18.739	2669	2678	2682	rBV	760565	1343850	5.75%	0.605%
49	18.804	2682	2689	2692	rVV4	445138	955523	4.09%	0.430%
50	18.833	2692	2694	2698	rVV	305396	314381	1.34%	0.141%
51	18.898	2698	2705	2710	rVV2	719978	1294201	5.53%	0.582%
52	19.022	2718	2726	2732	rBV	16489614	23386788	100.00%	10.522%
53	19.110	2738	2741	2744	rVV2	280987	386883	1.65%	0.174%
54	19.163	2747	2750	2754	rVB	256333	308684	1.32%	0.139%
55	19.251	2756	2765	2769	rBV3	537682	1024888	4.38%	0.461%
56	19.351	2776	2782	2784	rBV3	4215947	6624907	28.33%	2.981%
57	19.386	2784	2788	2794	rVV	14035829	18354114	78.48%	8.257%
58	19.451	2794	2799	2807	rVB2	700661	1107711	4.74%	0.498%
59	19.557	2812	2817	2822	rBV	840276	1151991	4.93%	0.518%
60	19.627	2824	2829	2833	rVB	593042	853424	3.65%	0.384%
61	19.698	2833	2841	2843	rBV	813437	1450360	6.20%	0.653%
62	19.845	2860	2866	2867	rBV3	656924	1112099	4.76%	0.500%
63	19.880	2868	2872	2877	rVB2	1809647	2565993	10.97%	1.154%
64	19.980	2884	2889	2892	rBV	1192275	1452495	6.21%	0.653%
65	20.033	2892	2898	2902	rVV2	1204396	2115473	9.05%	0.952%
66	20.116	2909	2912	2916	rVB	287834	340130	1.45%	0.153%
67	20.174	2918	2922	2926	rBV	696418	882594	3.77%	0.397%
68	20.221	2926	2930	2934	rVV2	717224	944047	4.04%	0.425%
69	20.439	2963	2967	2970	rBV3	236149	375001	1.60%	0.169%
70	20.510	2975	2979	2983	rVV3	328315	549078	2.35%	0.247%
71	20.639	2996	3001	3006	rVV	1245541	1580577	6.76%	0.711%

LSC Area Percent Report

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Acq On : 01 Mar 2018 19:34
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5X6

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

72	20.792	3023	3027	3031	rBV	1376674	1889399	8.08%	0.850%
73	20.833	3031	3034	3037	rVV	1285781	1578694	6.75%	0.710%
74	20.874	3037	3041	3049	rVV3	1016612	2277519	9.74%	1.025%
75	20.939	3049	3052	3057	rVB	1374798	1589816	6.80%	0.715%
76	20.986	3057	3060	3063	rBV	1148619	1202187	5.14%	0.541%
77	21.068	3070	3074	3078	rVB	11988636	12839981	54.90%	5.777%
78	21.145	3078	3087	3092	rBV2	9742983	16911740	72.31%	7.608%
79	21.198	3092	3096	3100	rVB	7352991	9010574	38.53%	4.054%
80	21.304	3111	3114	3118	rBV	922893	1165760	4.98%	0.524%
81	21.368	3122	3125	3128	rBV2	426020	591250	2.53%	0.266%
82	21.474	3137	3143	3147	rBV3	723065	1151638	4.92%	0.518%
83	21.645	3168	3172	3175	rBV2	477543	705124	3.02%	0.317%
84	21.698	3175	3181	3184	rVV	1459389	2209580	9.45%	0.994%
85	21.745	3186	3189	3195	rVB	726904	951587	4.07%	0.428%
86	21.810	3196	3200	3203	rBV3	368675	499276	2.13%	0.225%
87	21.886	3210	3213	3216	rBV	583584	820888	3.51%	0.369%
88	21.980	3225	3229	3234	rVB3	424803	679372	2.90%	0.306%
89	22.174	3259	3262	3266	rBV4	526709	791642	3.38%	0.356%
90	22.445	3304	3308	3312	rBV2	548809	850132	3.64%	0.382%
91	22.698	3344	3351	3355	rBV	5209074	11147835	47.67%	5.015%
92	22.851	3372	3377	3382	rBV	877847	1402363	6.00%	0.631%
93	22.974	3395	3398	3406	rVB3	298337	709679	3.03%	0.319%
94	23.151	3422	3428	3432	rBV	2511034	4358107	18.63%	1.961%
95	23.198	3432	3436	3439	rVV2	1271897	2212101	9.46%	0.995%
96	23.251	3439	3445	3452	rVB	4338417	7388153	31.59%	3.324%
97	23.333	3454	3459	3463	rBV	803480	1528089	6.53%	0.687%
98	23.380	3463	3467	3476	rVB	1174820	2154211	9.21%	0.969%
99	25.509	3820	3829	3837	rVB2	1625814	4404921	18.84%	1.982%
100	26.174	3935	3942	3957	rVB	859001	2655908	11.36%	1.195%

Sum of corrected areas: 222274416

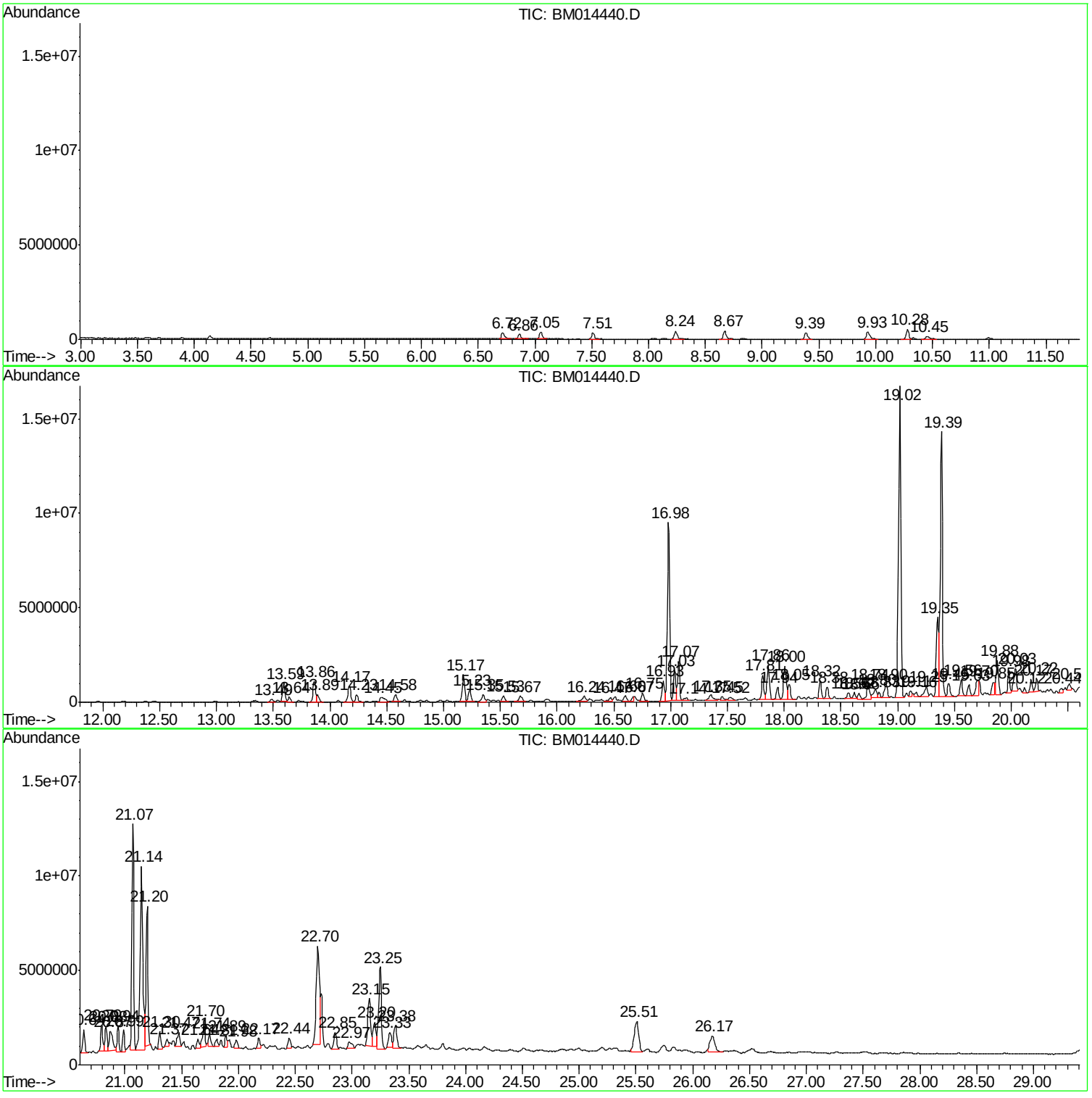
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA M\DATA\BM030118\
Data File : BM014440.D
Acq On : 01 Mar 2018 19:34
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5X6

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\BM030118\
Data File : BM014440.D
Acq On : 01 Mar 2018 19:34
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5X6

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

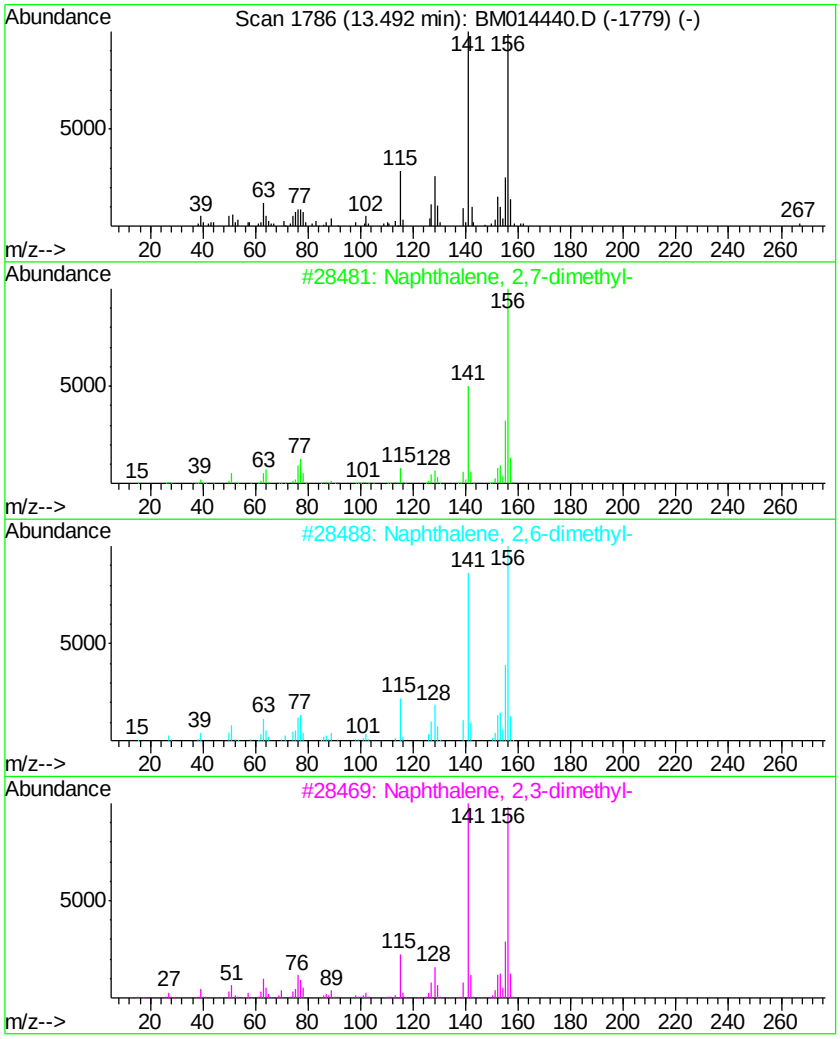
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

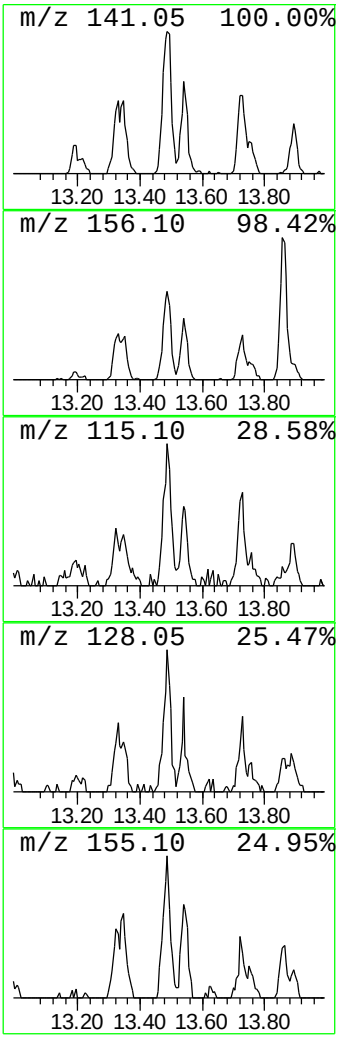
****

Peak Number 1 Naphthalene, 2,7-dimethyl- Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.49	3.86 ng/ul	267650	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, 2,6-dimethyl-	156	C12H12	000581-42-0	96
3	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	95
4	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	95
5	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	95





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM030118\
Data File : BM014440.D
Acq On : 01 Mar 2018 19:34
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5X6

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

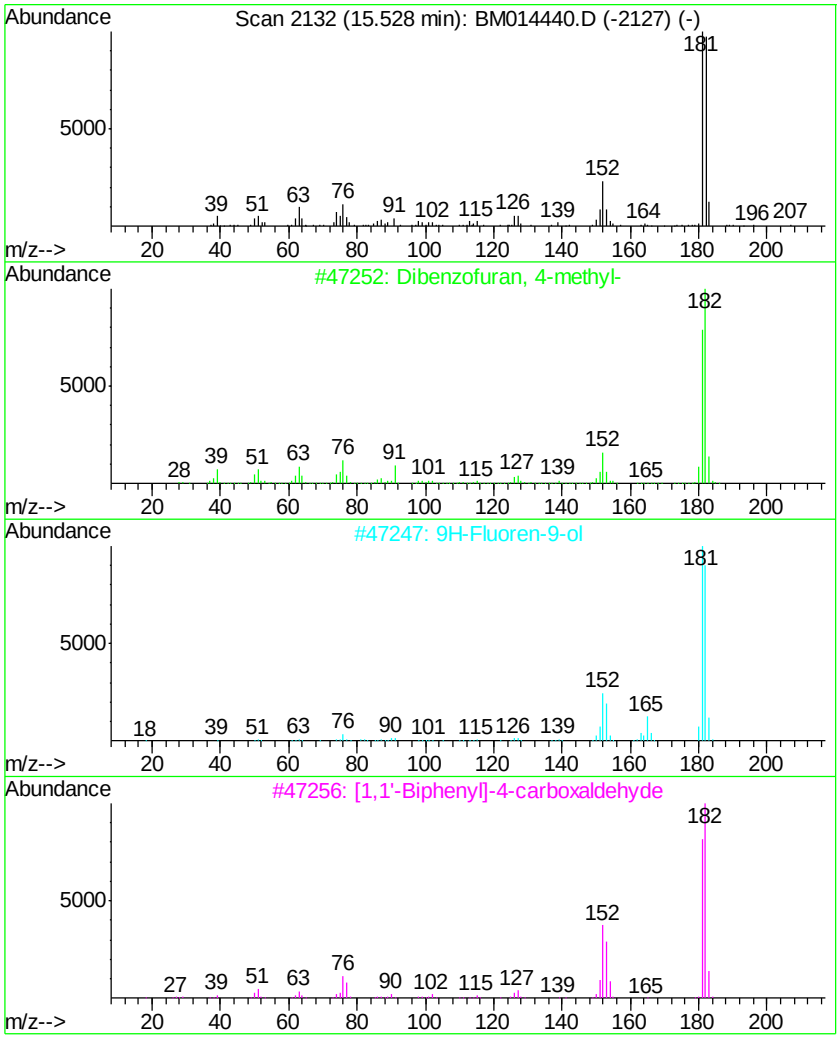
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

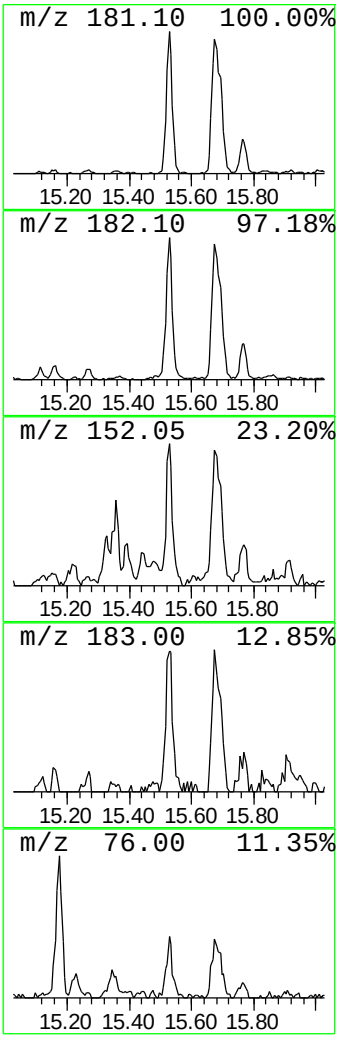
****

Peak Number 2 Dibenzofuran, 4-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.53	7.07 ng/ul	490128	Acenaphthene-d10	14.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	93
2	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	90
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	87
4	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	78
5	9H-Xanthene	182	C13H10O	000092-83-1	72





Data Path : Z:\HPCHEM1\BNA M\DATA\BM030118\
Data File : BM014440.D
Acq On : 01 Mar 2018 19:34
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5X6

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

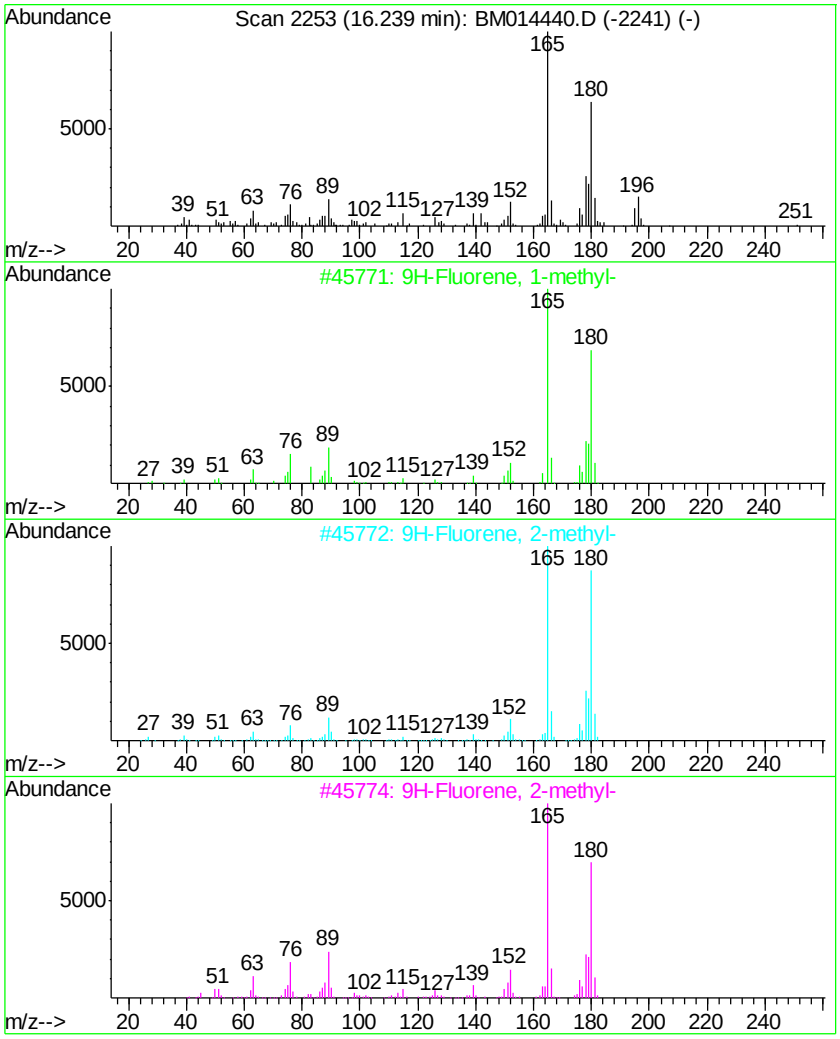
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

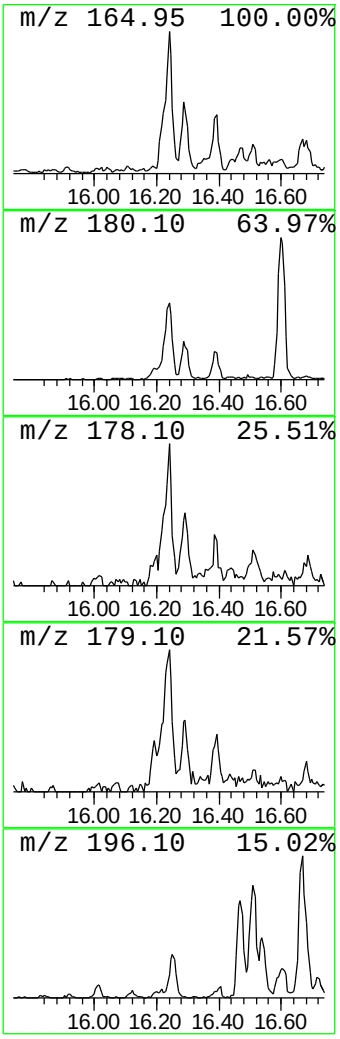
****

Peak Number 4 9H-Fluorene, 1-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.24	8.00 ng/ul	637802	Phenanthrene-d10	16.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	98
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	98
3	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	95
4	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	93
5	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	91





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM030118\
Data File : BM014440.D
Acq On : 01 Mar 2018 19:34
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5X6

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

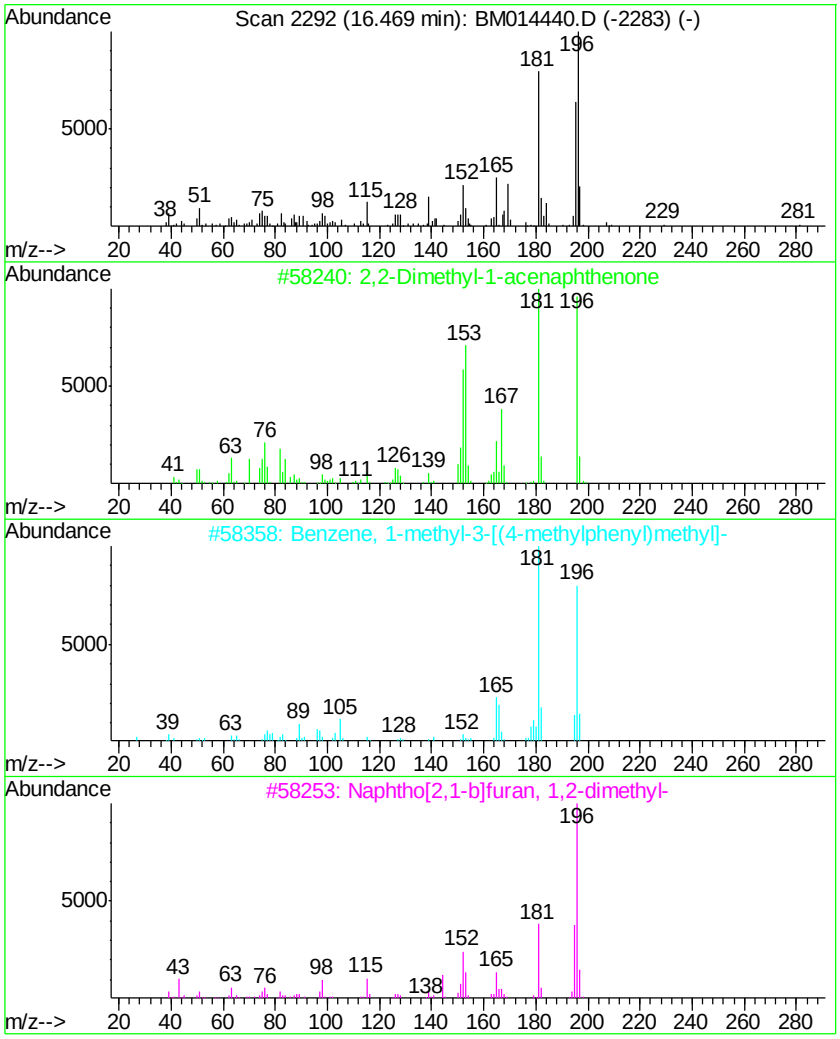
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

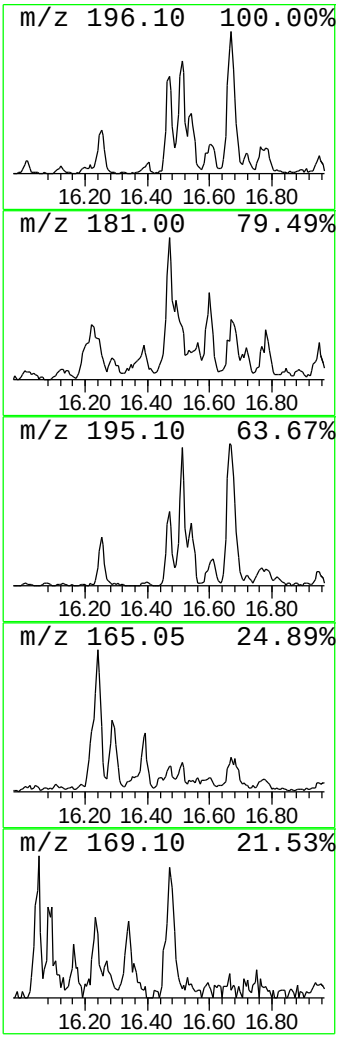
****

Peak Number 5 2,2-Dimethyl-1-acenaphthenone Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.47	4.91 ng/ul	391786	Phenanthrene-d10	16.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2-Dimethyl-1-acenaphthenone	196	C14H12O	018086-43-6	70
2	Benzene, 1-methyl-3-[(4-methylph...	196	C15H16	021895-16-9	58
3	Naphtho[2,1-b]furan, 1,2-dimethyl-	196	C14H12O	129812-23-3	55
4	Benzene, 3,5-dimethyl-1-(phenylm...	196	C15H16	028122-27-2	52
5	Silane, (4-methoxyphenoxy)trimet...	196	C10H16O2Si	006689-38-9	49





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM030118\
Data File : BM014440.D
Acq On : 01 Mar 2018 19:34
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5X6

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

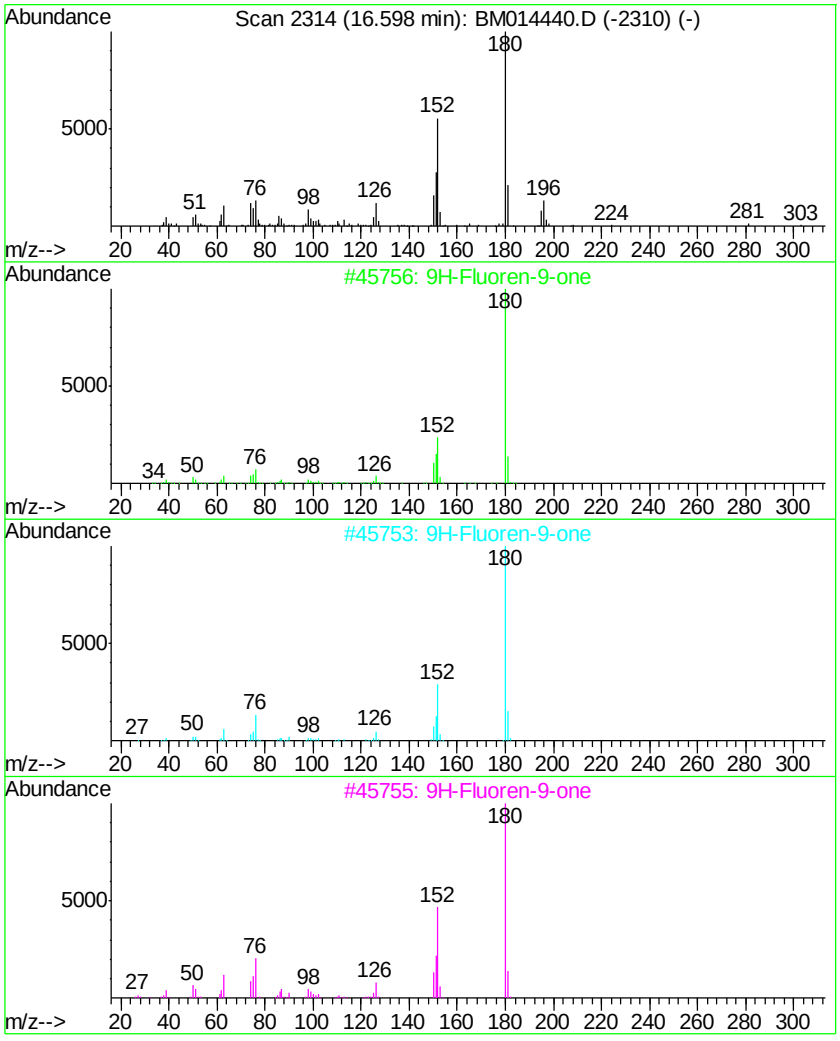
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

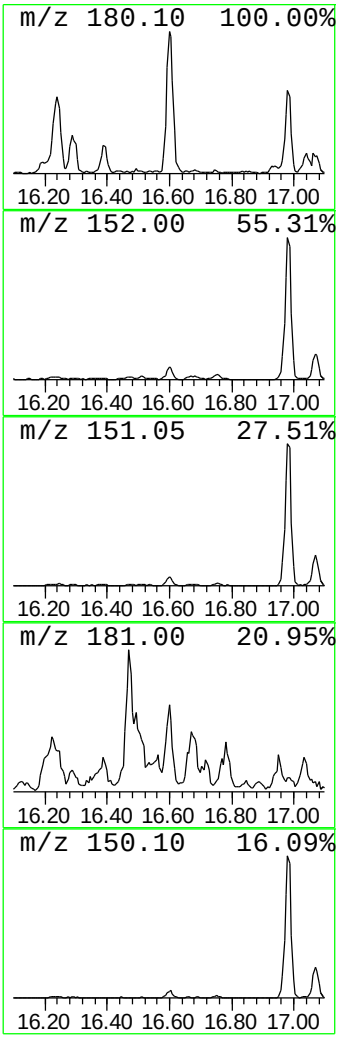
****

Peak Number 6 9H-Fluoren-9-one Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.60	5.56 ng/ul	443062	Phenanthrene-d10	16.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	93
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	93
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	87
4	Biphenylene	152	C12H8	000259-79-0	86
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	83





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Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5X6

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Quant Title : SVOA CALIBRATION

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

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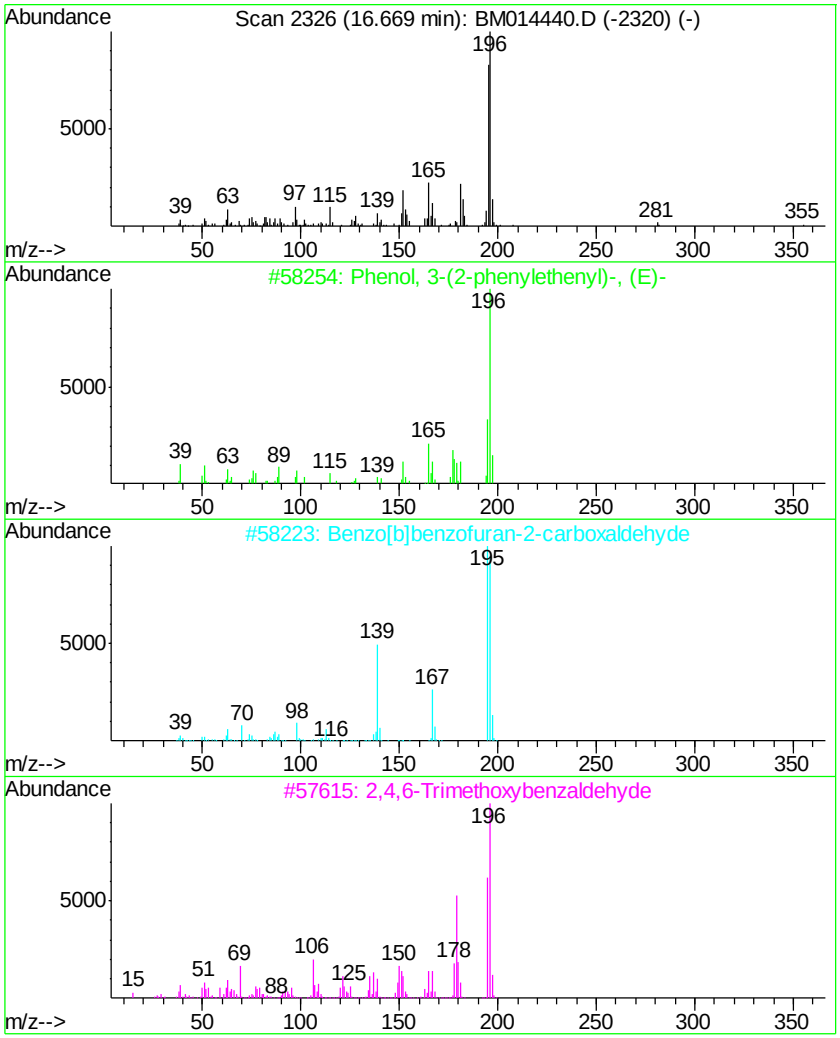
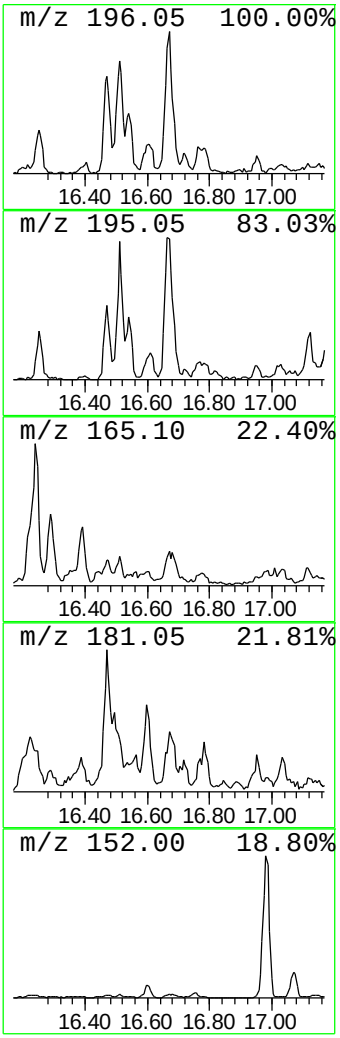
Peak Number 7 Phenol, 3-(2-phenylethenyl)... Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.67	4.10 ng/ul	327161	Phenanthrene-d10	16.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 3-(2-phenylethenyl)-, (E)-	196	C14H12O	017861-18-6	64
2	Benzo[b]benzofuran-2-carboxaldehyde	196	C13H8O2	1000351-56-0	62
3	2,4,6-Trimethoxybenzaldehyde	196	C10H12O4	000830-79-5	58
4	Perimidine, 2-ethyl-	196	C13H12N2	028478-13-9	53
5	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	52





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Instrument : BNA_M
ClientSampleId : BE5X6

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Quant Title : SVOA CALIBRATION

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

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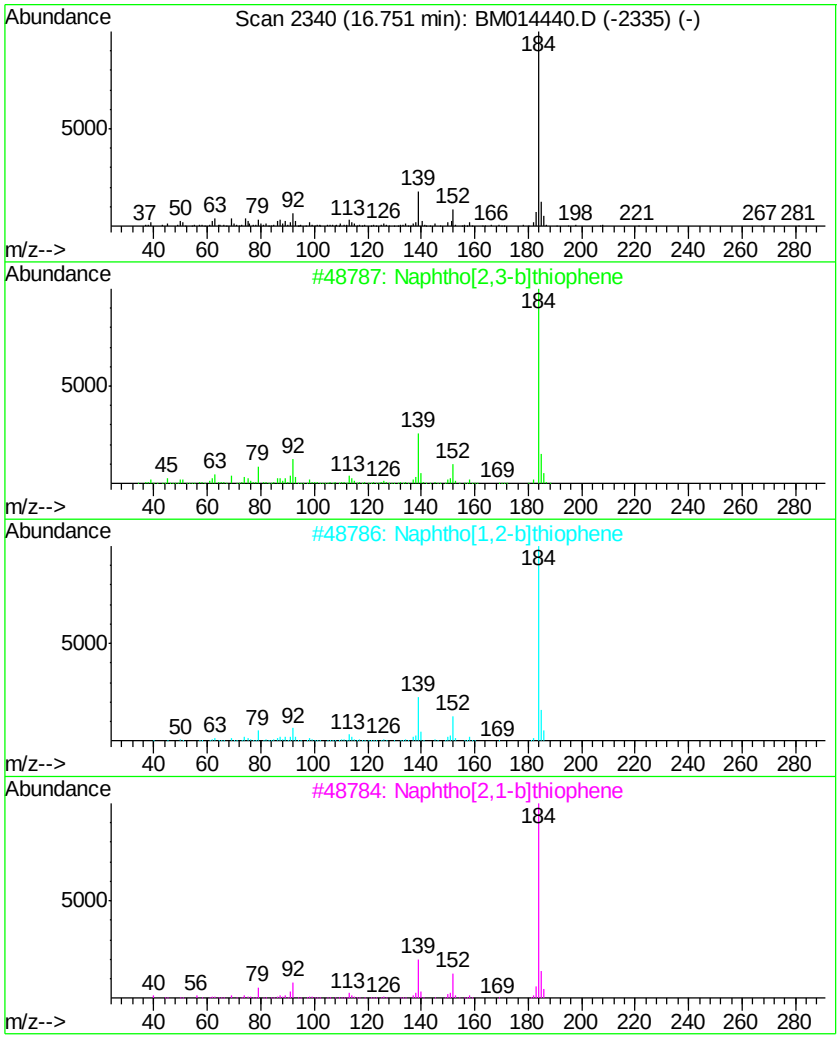
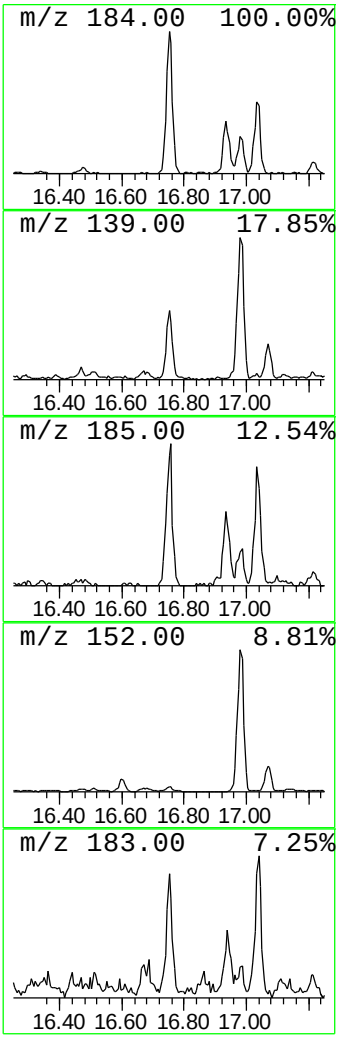
Peak Number 8 Naphtho[2,3-b]thiophene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.75	9.26 ng/ul	738229	Phenanthrene-d10	16.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
2	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	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	93





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Quant Title : SVOA CALIBRATION

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

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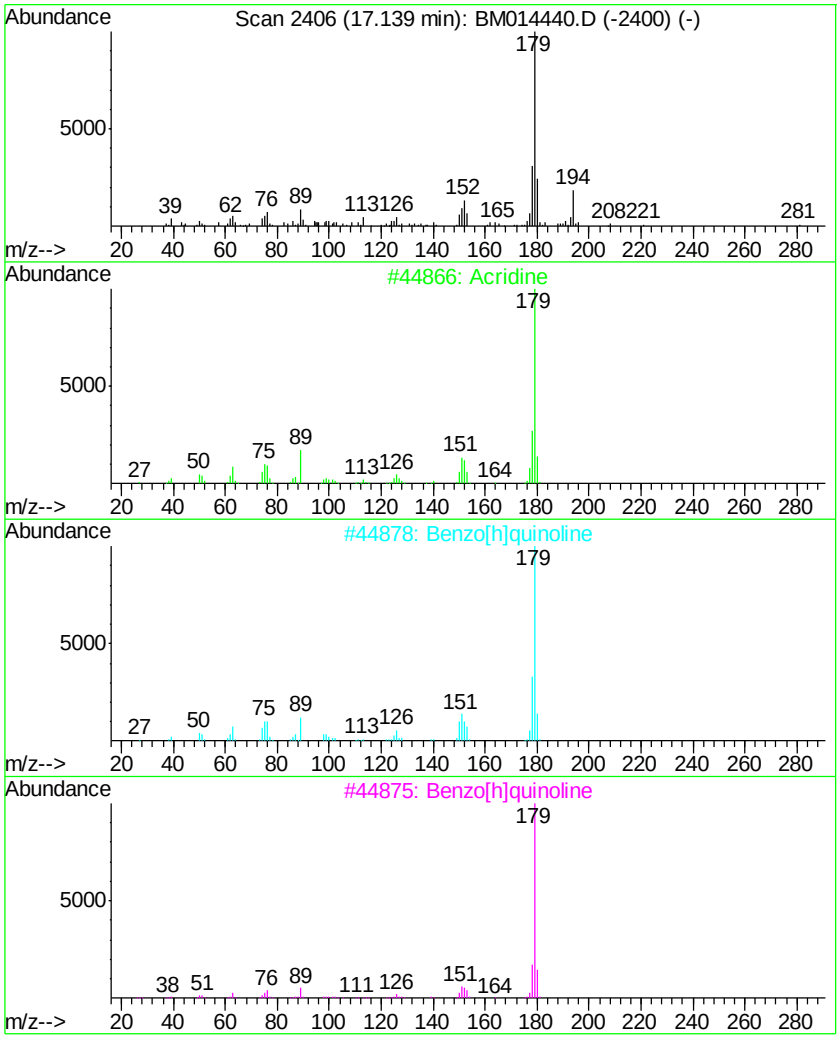
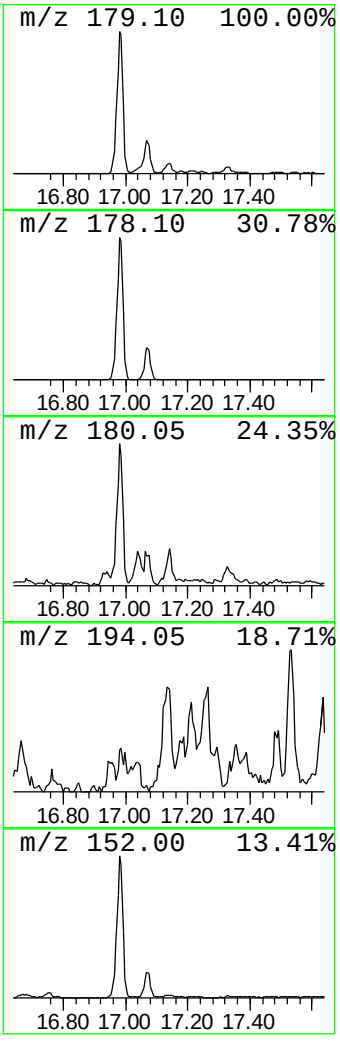
Peak Number 9 Acridine Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.14	3.36 ng/ul	267617	Phenanthrene-d10	16.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acridine	179	C13H9N	000260-94-6	90
2	Benzo[h]quinoline	179	C13H9N	000230-27-3	76
3	Benzo[h]quinoline	179	C13H9N	000230-27-3	70
4	Acridine	179	C13H9N	000260-94-6	70
5	Acridine	179	C13H9N	000260-94-6	70





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Acq On : 01 Mar 2018 19:34
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Misc :
ALS Vial : 4 Sample Multiplier: 1

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ClientSampleId : BE5X6

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Quant Title : SVOA CALIBRATION

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

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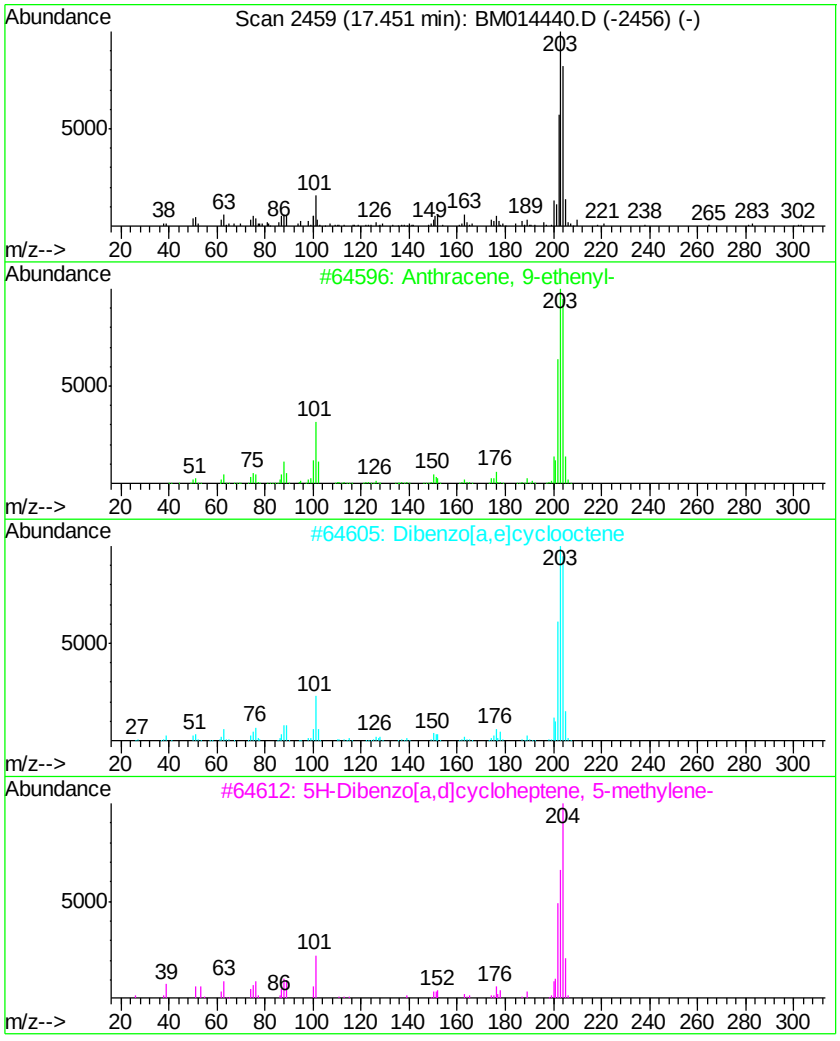
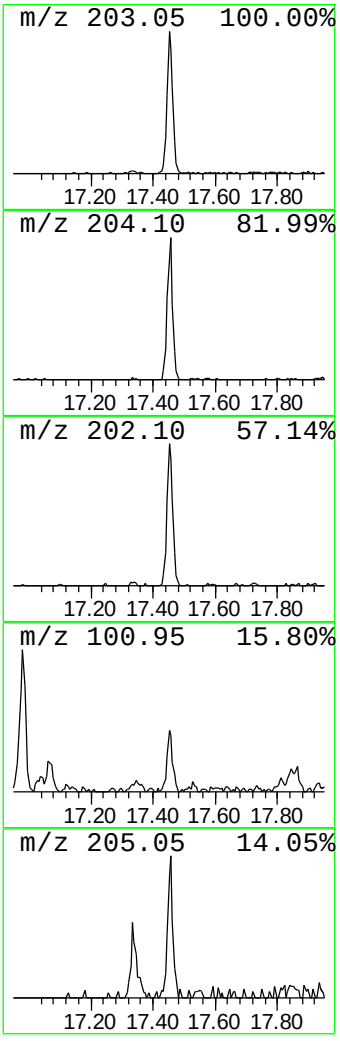
Peak Number 10 Anthracene, 9-ethenyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.45	5.04 ng/ul	402162	Phenanthrene-d10	16.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	89
2	Dibenzo[a,e]cyclooctene	204	C16H12	000262-89-5	89
3	5H-Dibenzo[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	78
4	Cyclobuta[1'',2'':3,4:3'',4'':3'...	204	C16H12	006574-36-3	76
5	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	76





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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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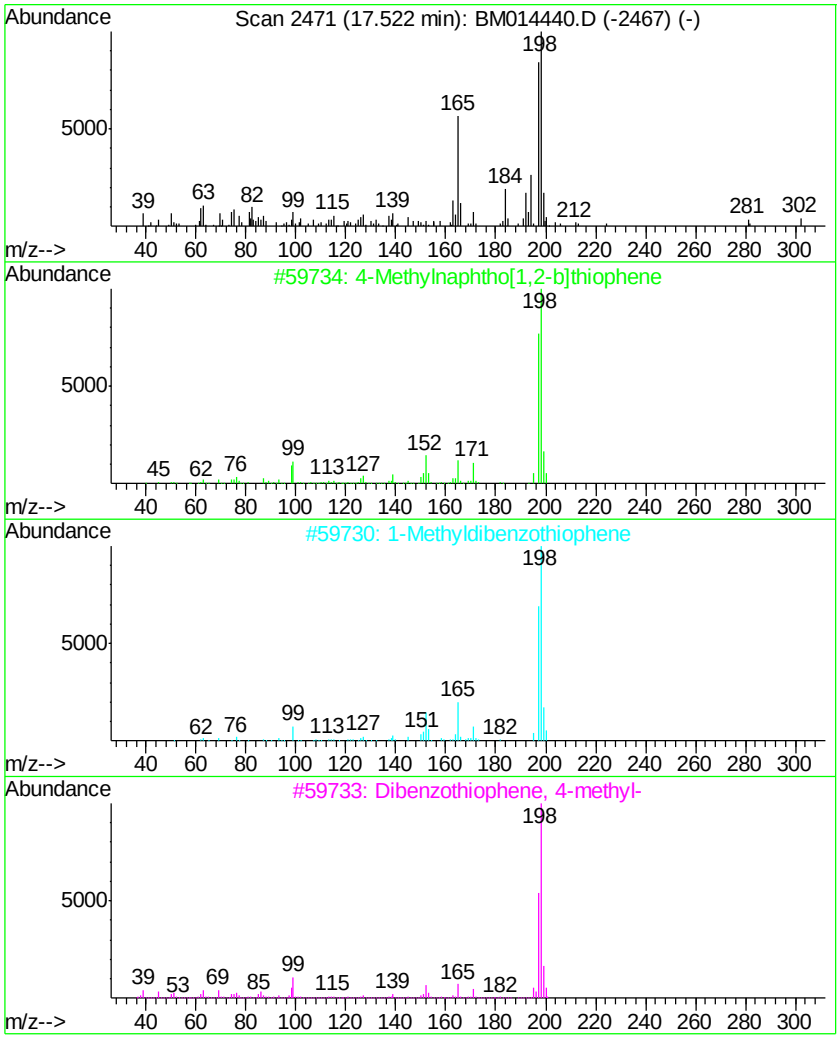
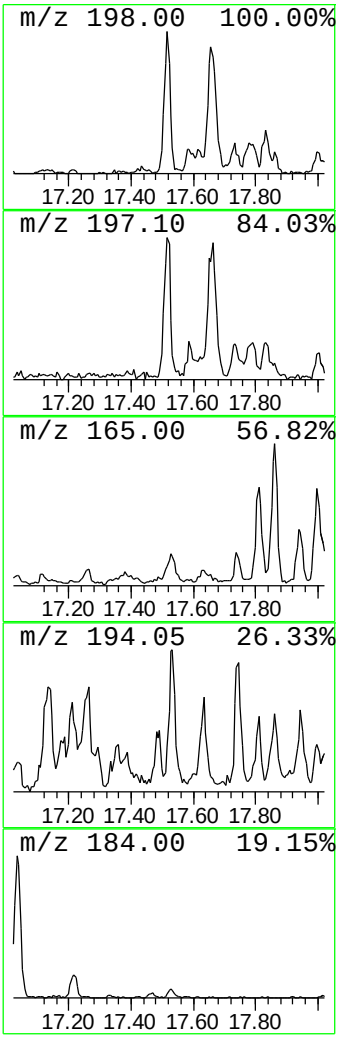
Peak Number 11 4-Methylnaphtho[1,2-b]thiop... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.52	5.18 ng/ul	412687	Phenanthrene-d10	16.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	91
2	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	90
3	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	83
4	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	80
5	Benzene, 1-fluoro-4-(2-phenyleth...	198	C14H11F	017404-69-2	72





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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, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.81	22.25 ng/ul	1774470	Phenanthrene-d10	16.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
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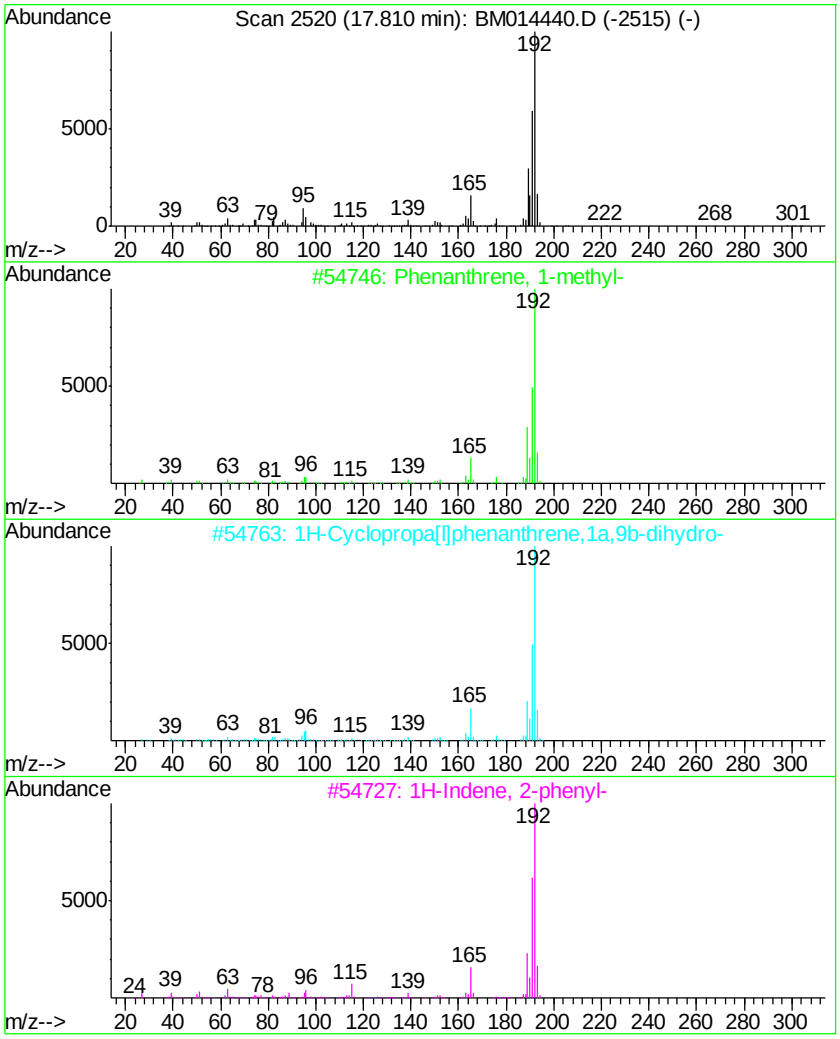

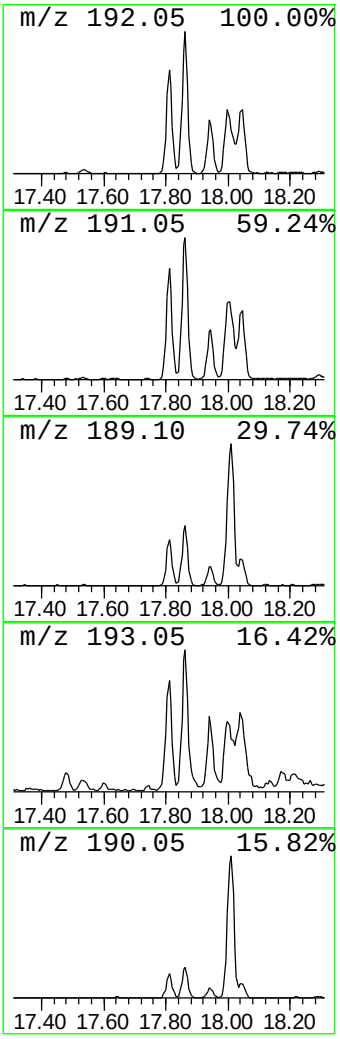

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Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5X6

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Quant Title : SVOA CALIBRATION

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

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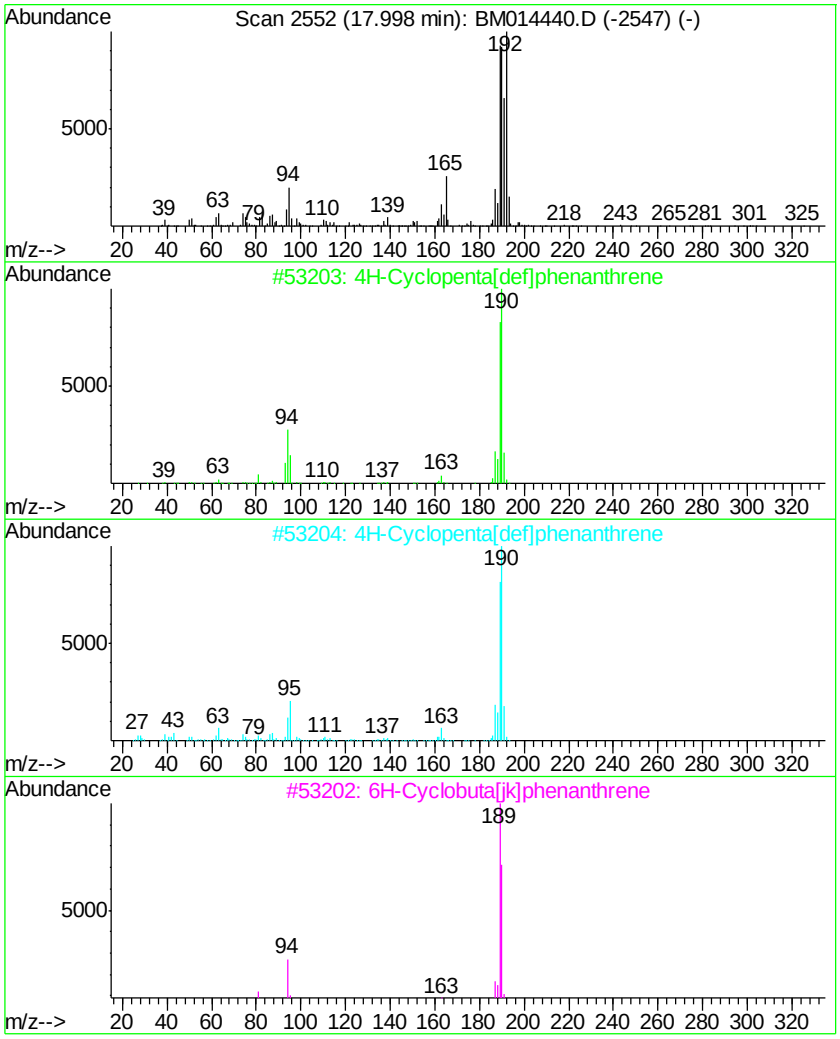
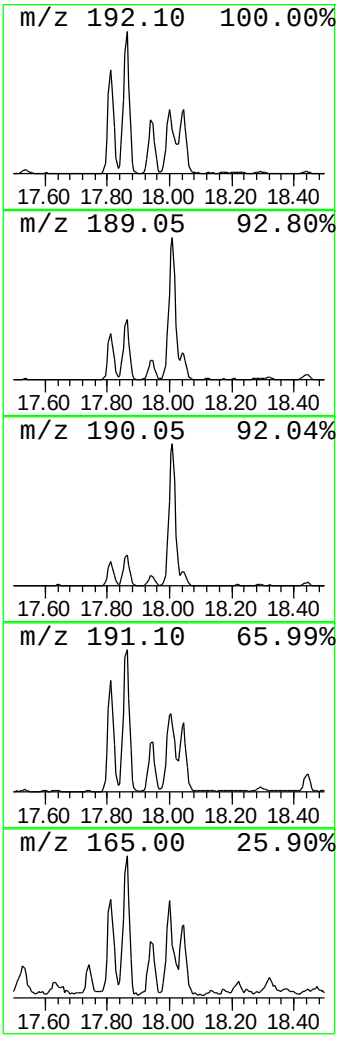
Peak Number 15 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.00	38.22 ng/ul	3047630	Phenanthrene-d10	16.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	62
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	60
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	58
4	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	47
5	1a,9b-Dihydro-1H-cyclopropa[a]an...	192	C15H12	006109-24-6	38





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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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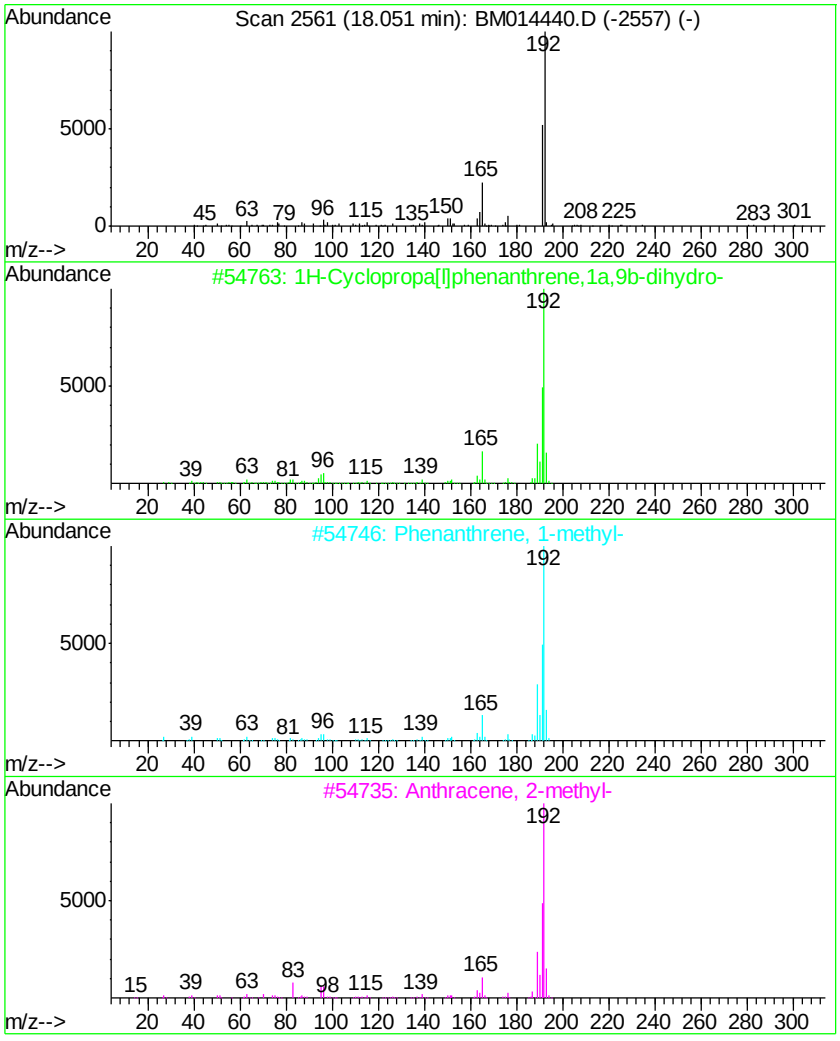
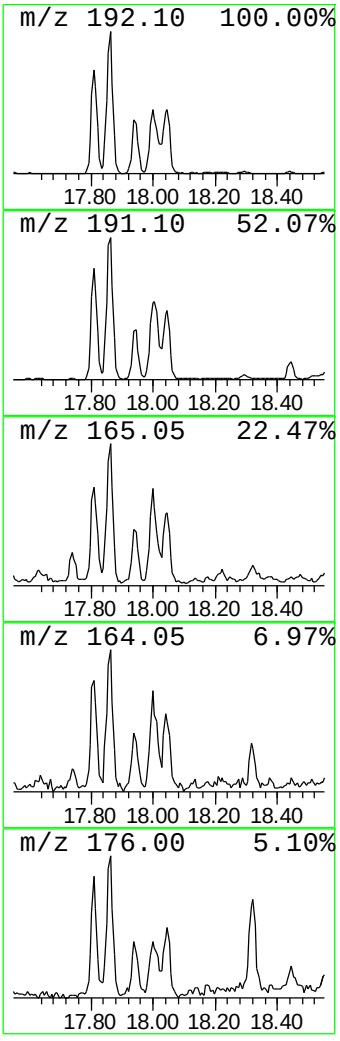
Peak Number 16 1H-Cyclopropa[l]phenanthren... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.05	14.82 ng/ul	1181380	Phenanthrene-d10	16.93

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	80
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	80
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	80
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	80





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Quant Title : SVOA CALIBRATION

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

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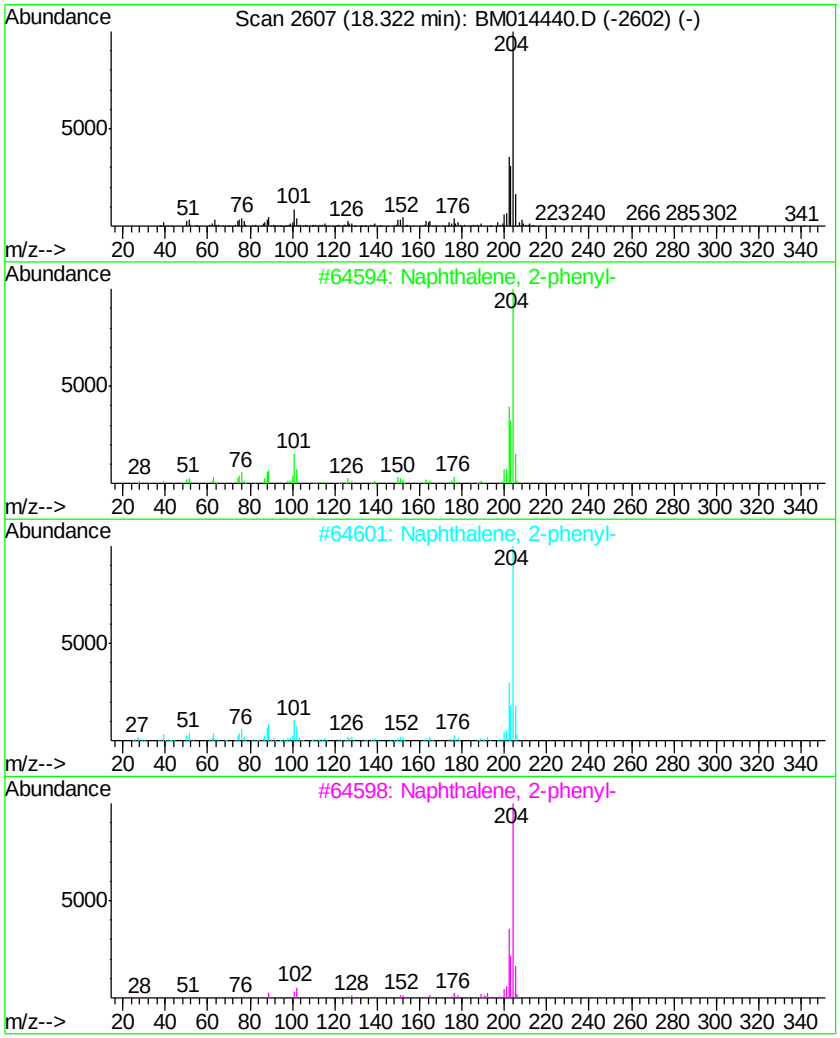
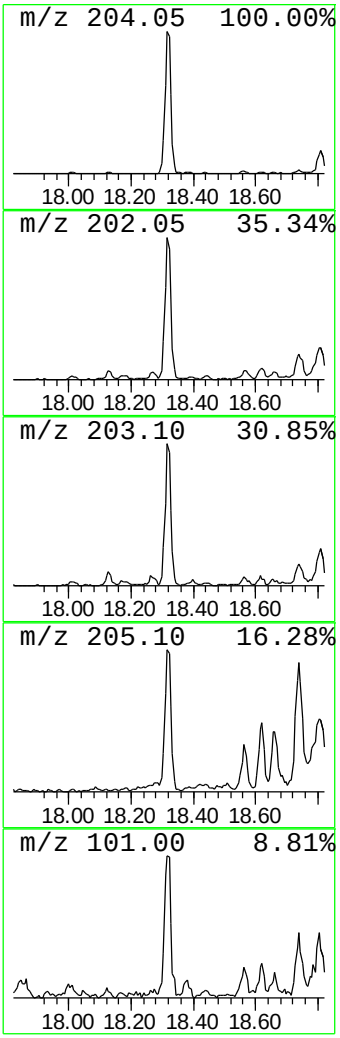
Peak Number 17 Naphthalene, 2-phenyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.32	15.68 ng/ul	1250590	Phenanthrene-d10	16.93

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





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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 9,10-Anthracenedione Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.38	10.96 ng/ul	873937	Phenanthrene-d10	16.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	96
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	94
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	93
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	91
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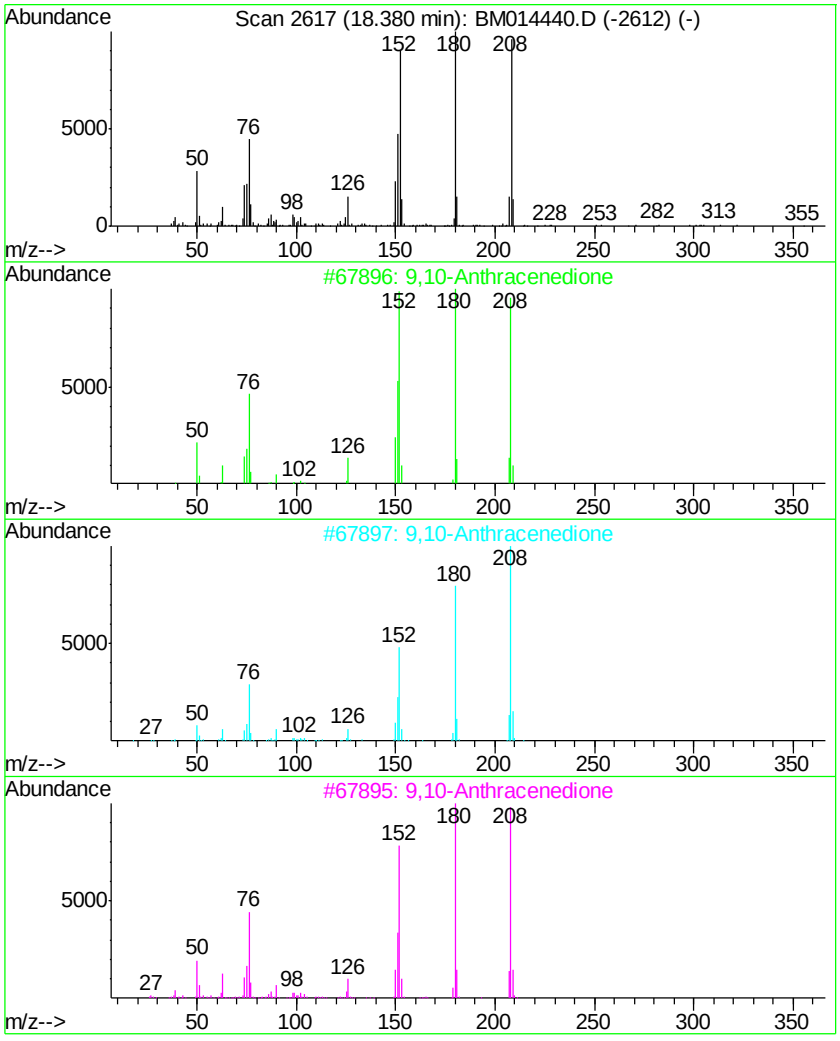

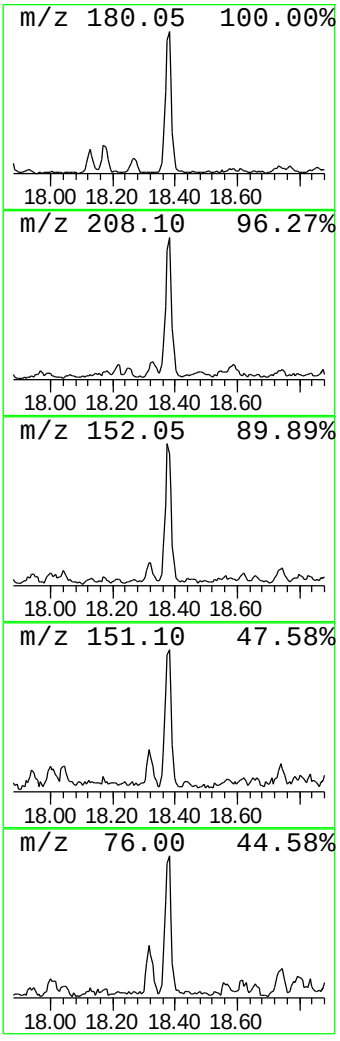

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Quant Title : SVOA CALIBRATION

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

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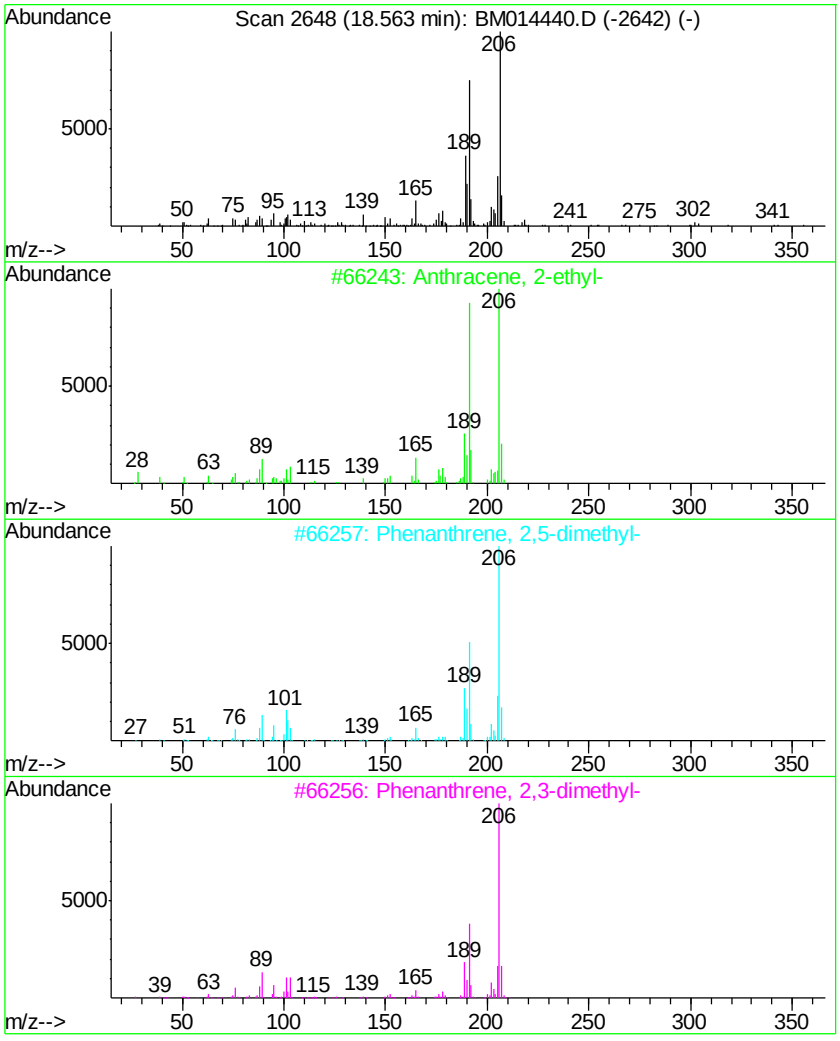
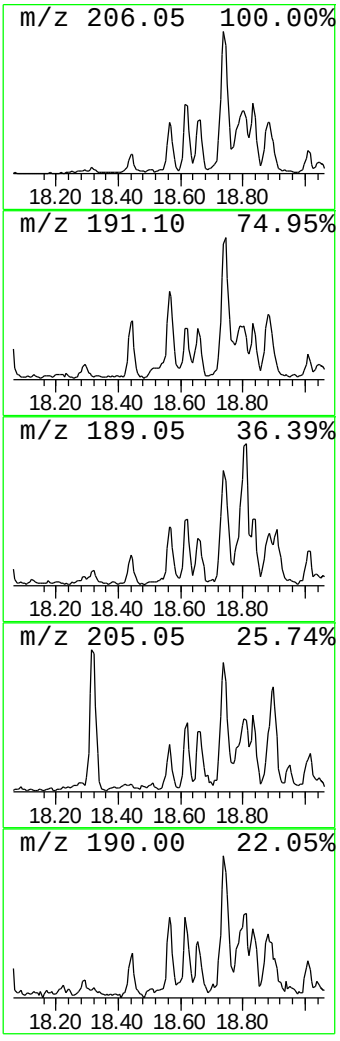
Peak Number 19 Anthracene, 2-ethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.56	6.19 ng/ul	493825	Phenanthrene-d10	16.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	95
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	94
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	94
4	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	93
5	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	91





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Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5X6

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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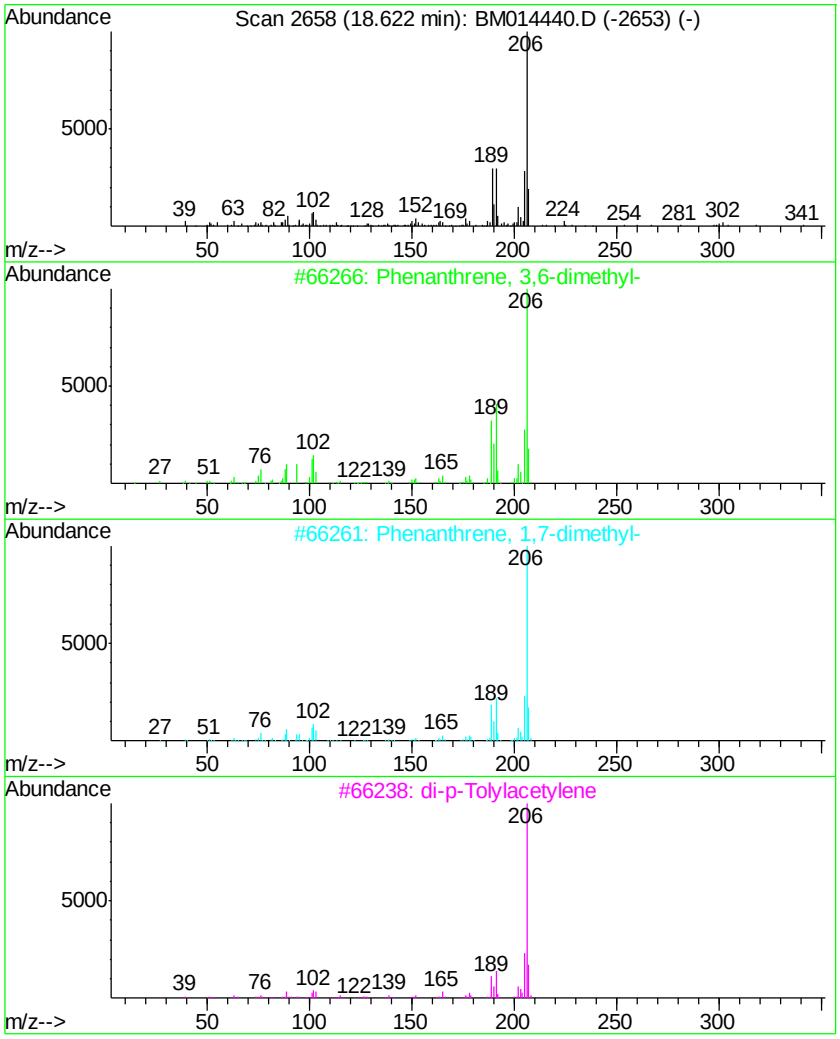
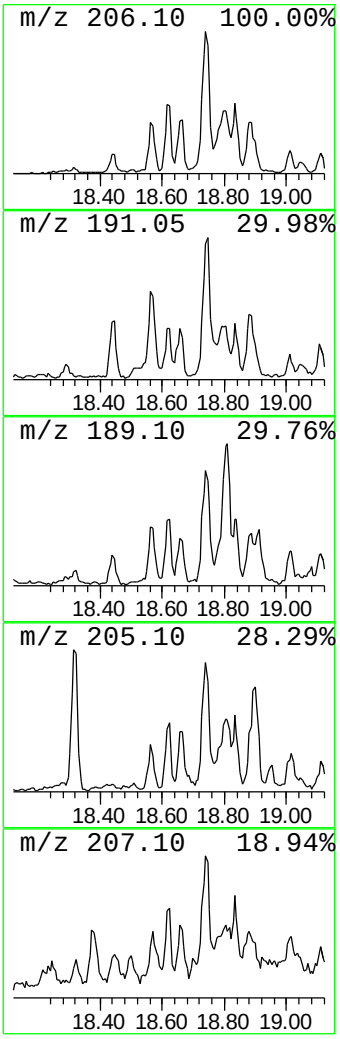
Peak Number 20 Phenanthrene, 3,6-dimethyl- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.62	4.75 ng/ul	378567	Phenanthrene-d10	16.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	96
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	94
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	91





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Acq On : 01 Mar 2018 19:34
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5X6

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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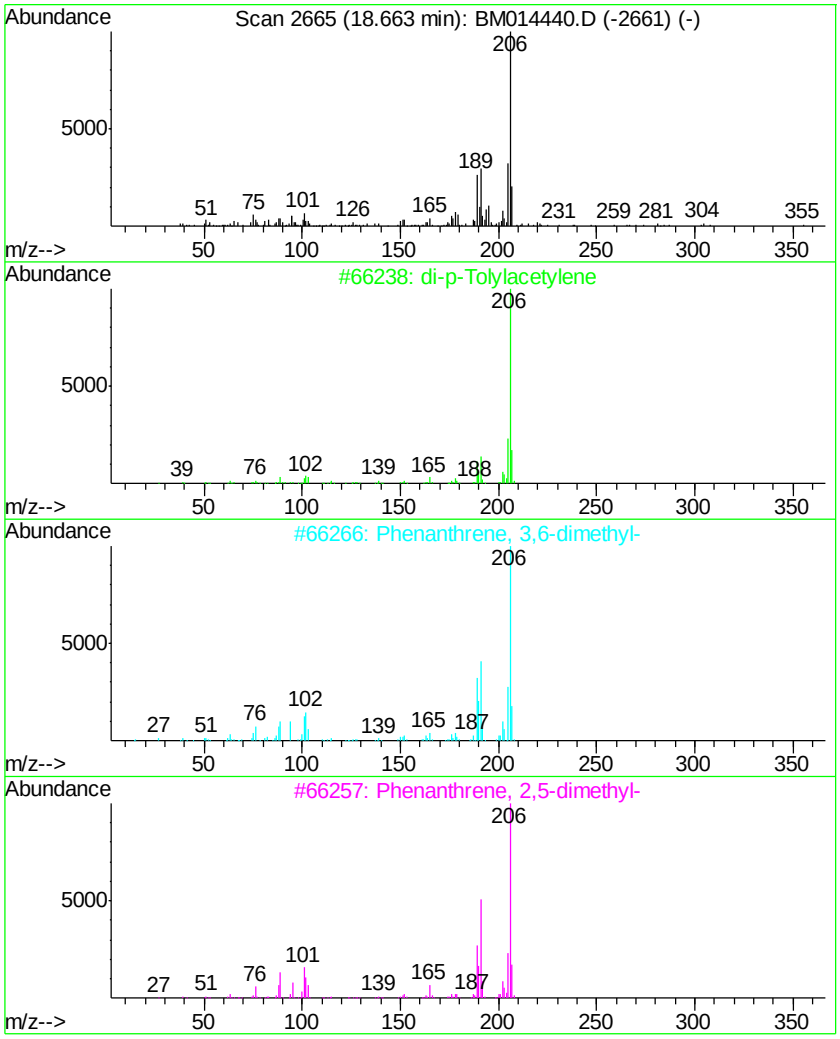
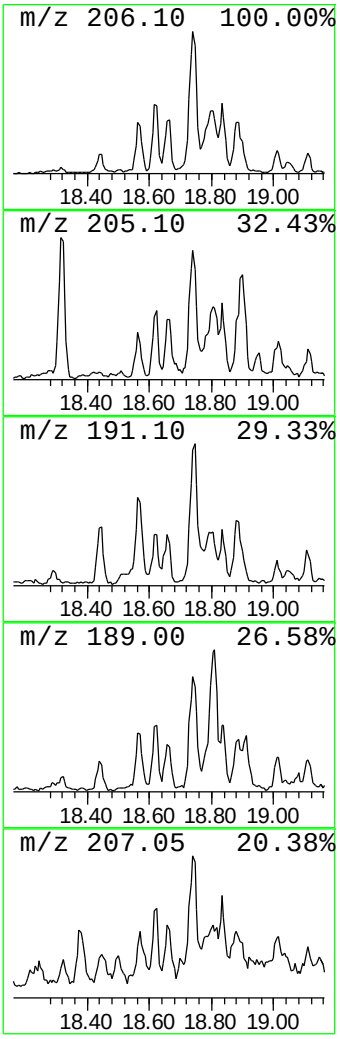
Peak Number 21 di-p-Tolylacetylene Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.66	5.10 ng/ul	406296	Phenanthrene-d10	16.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	90
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	86





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Sample : J1646-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5X6

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Quant Title : SVOA CALIBRATION

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

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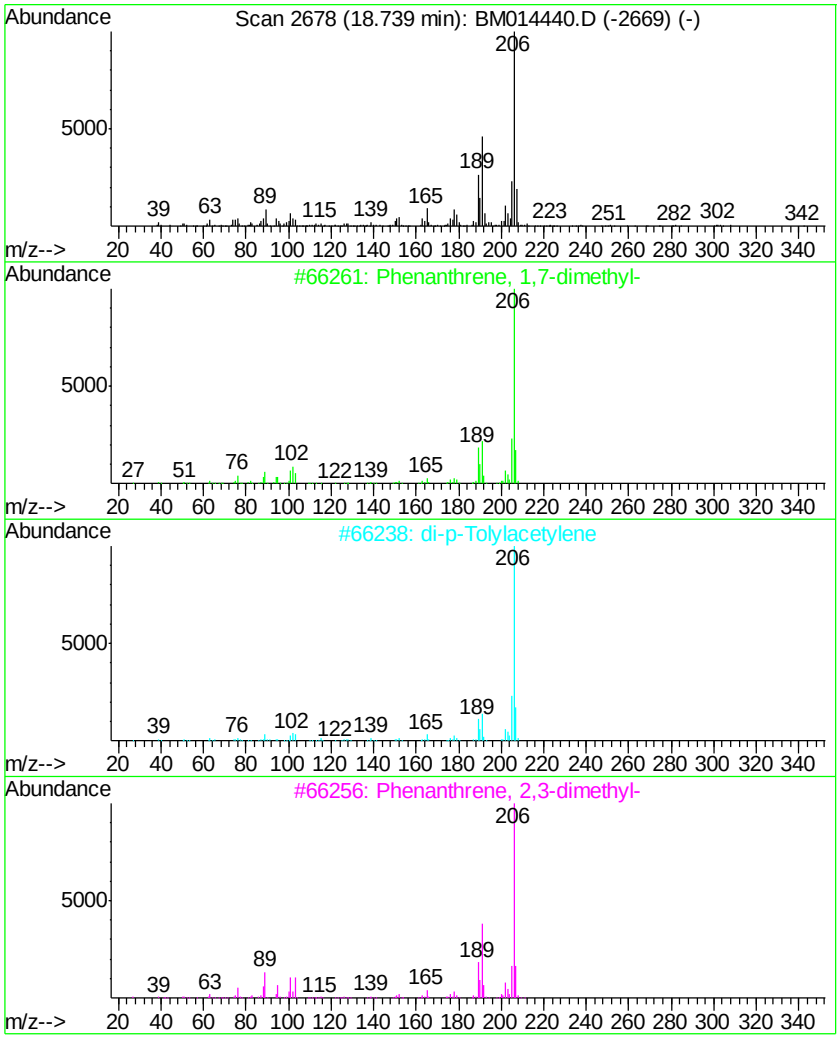
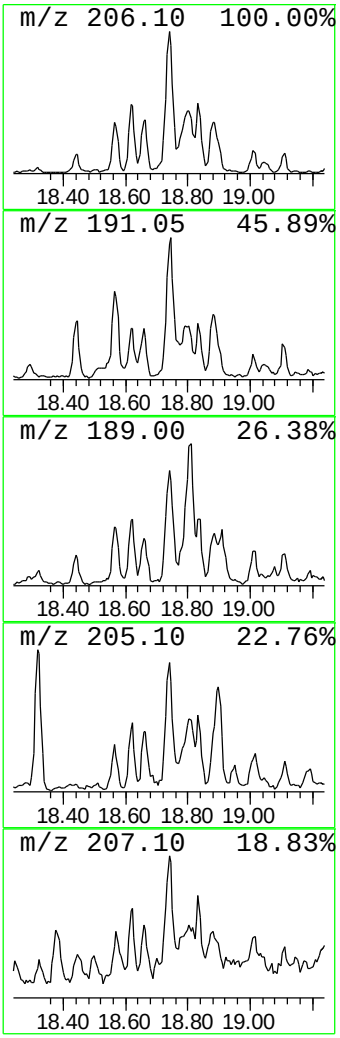
Peak Number 22 Phenanthrene, 1,7-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.74	16.85 ng/ul	1343850	Phenanthrene-d10	16.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	93
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	90





Library Search Compound Report

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ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5X6

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Quant Title : SVOA CALIBRATION

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

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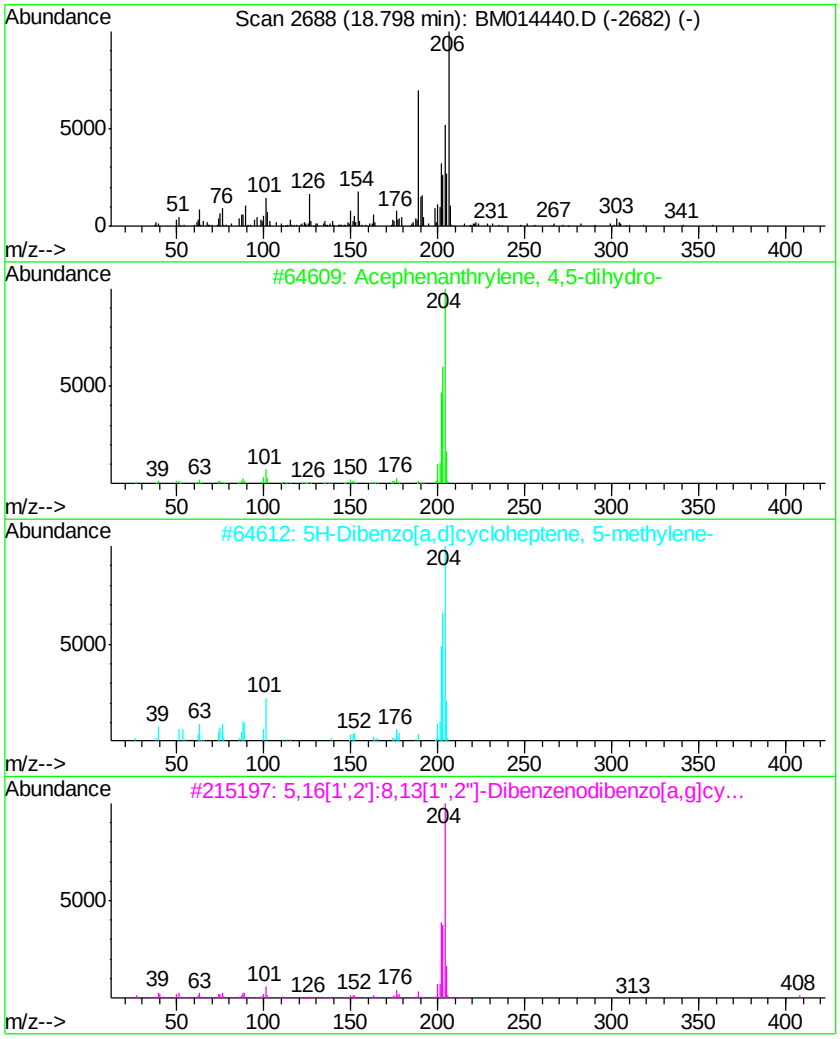
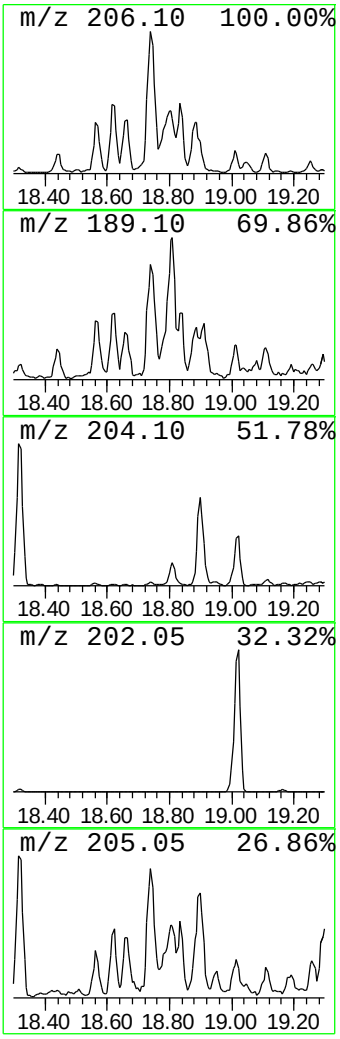
Peak Number 23 Acephenanthrylene, 4,5-dihy... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.80	11.98 ng/ul	955523	Phenanthrene-d10	16.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	72
2	5H-Dibenzo[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	47
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	41
4	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	38
5	Quinoline, 8-methoxy-5-nitro-	204	C10H8N2O3	1000298-88-7	35





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Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5X6

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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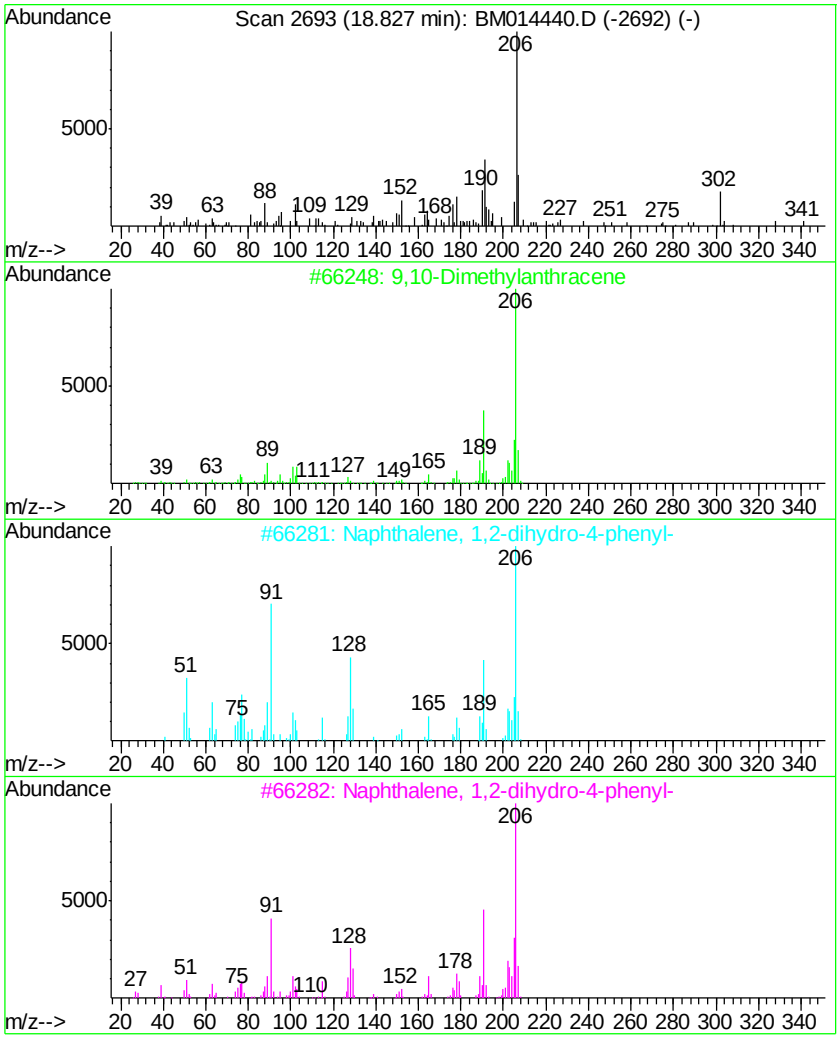
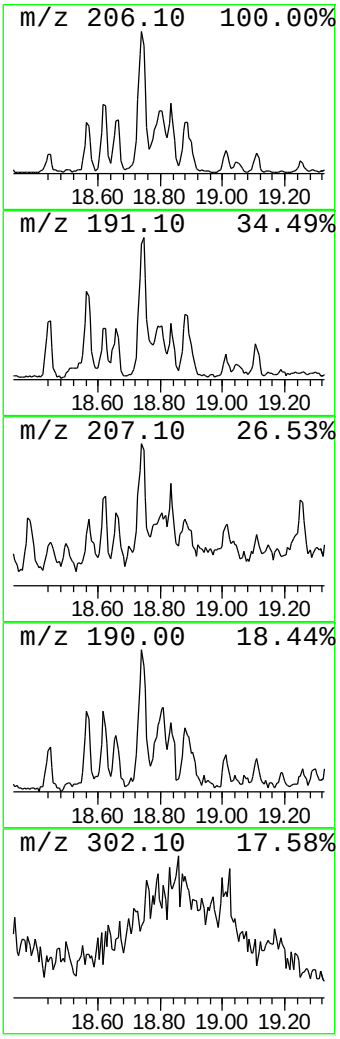
Peak Number 24 9,10-Dimethylanthracene Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.83	3.94 ng/ul	314381	Phenanthrene-d10	16.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	87
2	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	86
3	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	80
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	80
5	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	80





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Acq On : 01 Mar 2018 19:34
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Misc :
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ClientSampleId : BE5X6

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Quant Title : SVOA CALIBRATION

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

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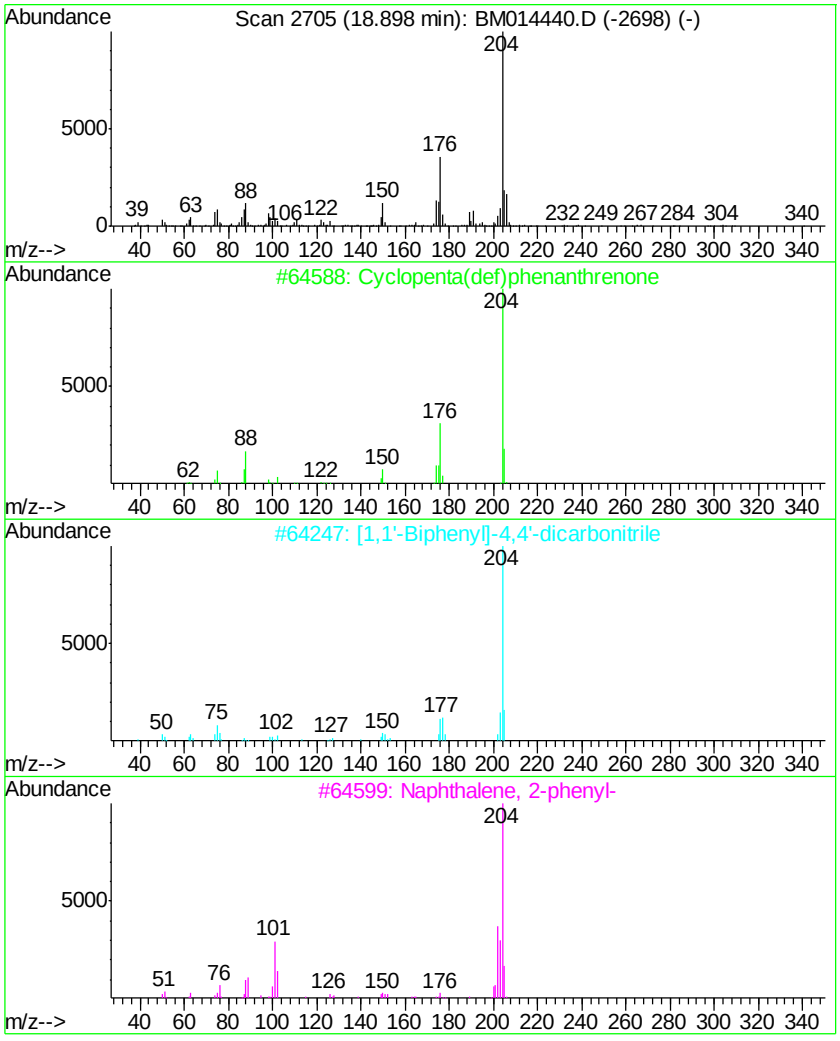
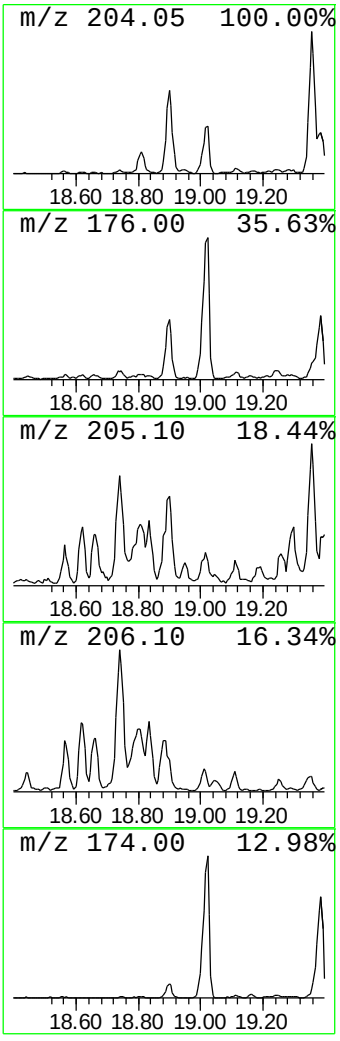
Peak Number 25 Cyclopenta(def)phenanthrenone Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.90	16.23 ng/ul	1294200	Phenanthrene-d10	16.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	87
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	53
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	47
4	Carbazole, 9-(2-propynyl)-	205	C15H11N	004282-77-3	47
5	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	46





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Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5X6

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Quant Title : SVOA CALIBRATION

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

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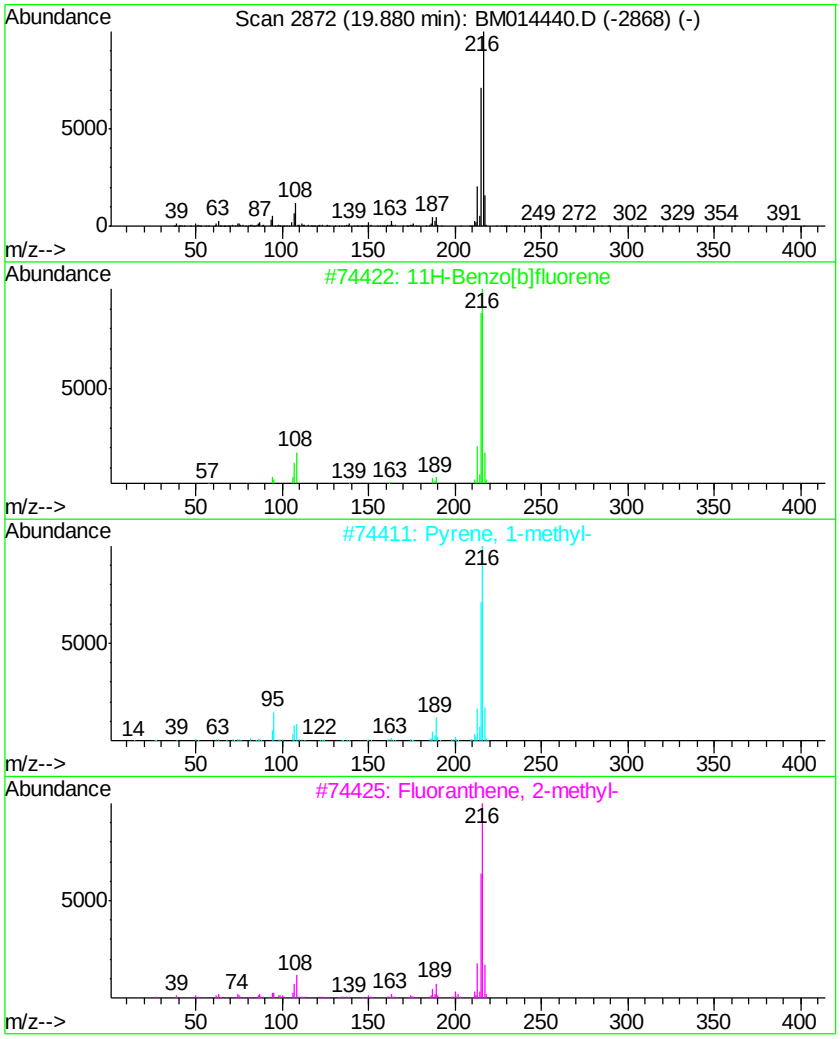
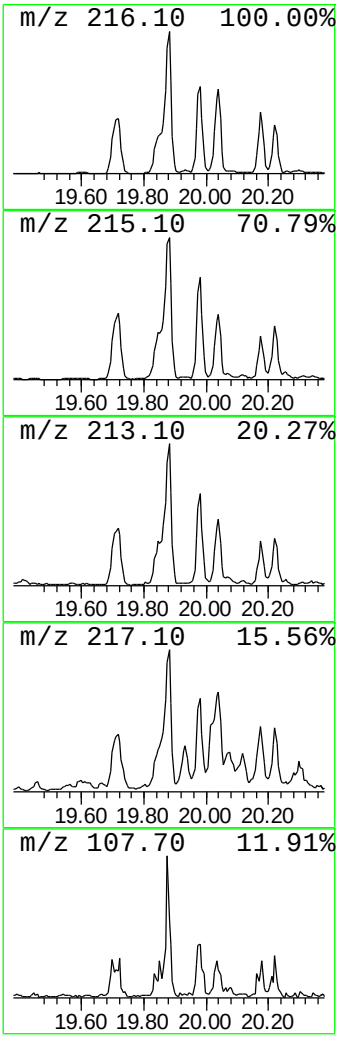
Peak Number 26 11H-Benzo[b]fluorene Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.88	3.03 ng/ul	2565990	Chrysene-d12	21.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90





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Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5X6

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Quant Title : SVOA CALIBRATION

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

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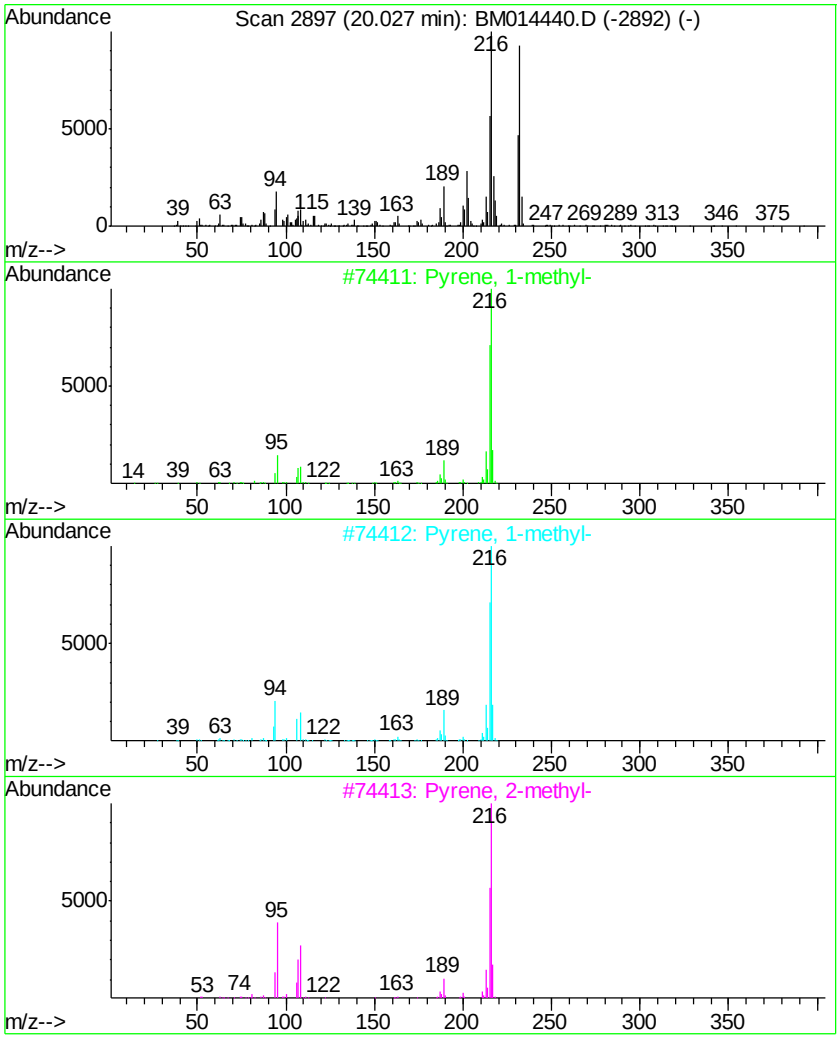
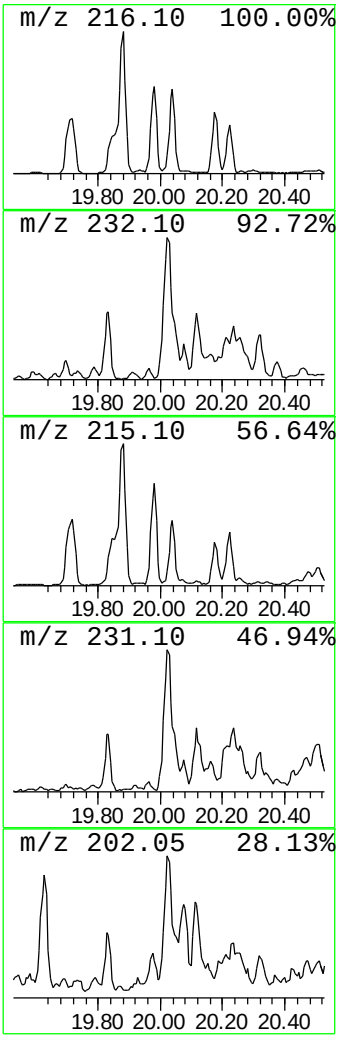
Peak Number 27 Pyrene, 1-methyl- Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.03	2.50 ng/ul	2115470	Chrysene-d12	21.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	90
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	70
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	70





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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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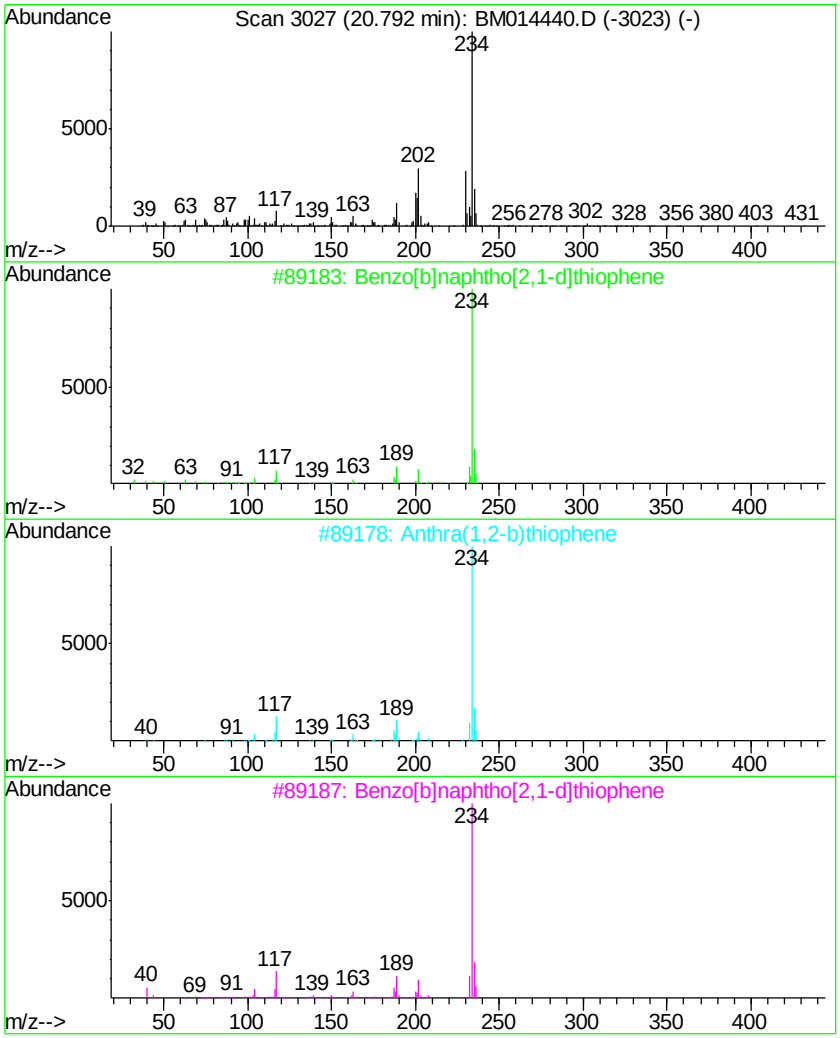
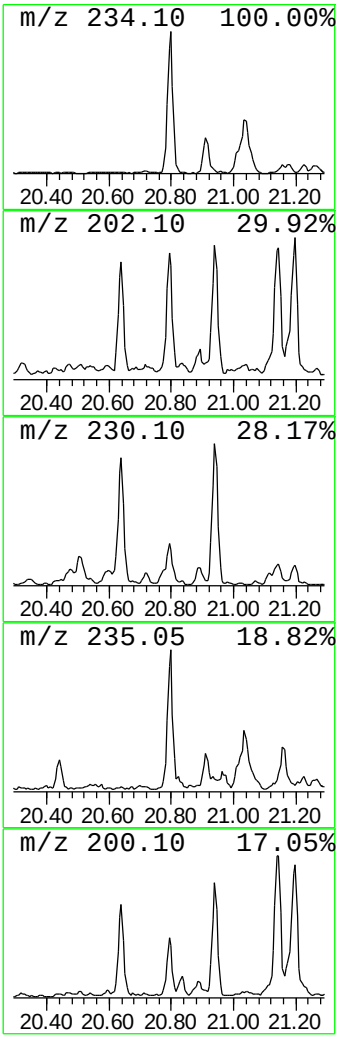
Peak Number 28 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.79	2.23 ng/ul	1889400	Chrysene-d12	21.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	93
2	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	83
3	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	78
4	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	70
5	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	70





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Misc :
ALS Vial : 4 Sample Multiplier: 1

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Quant Title : SVOA CALIBRATION

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

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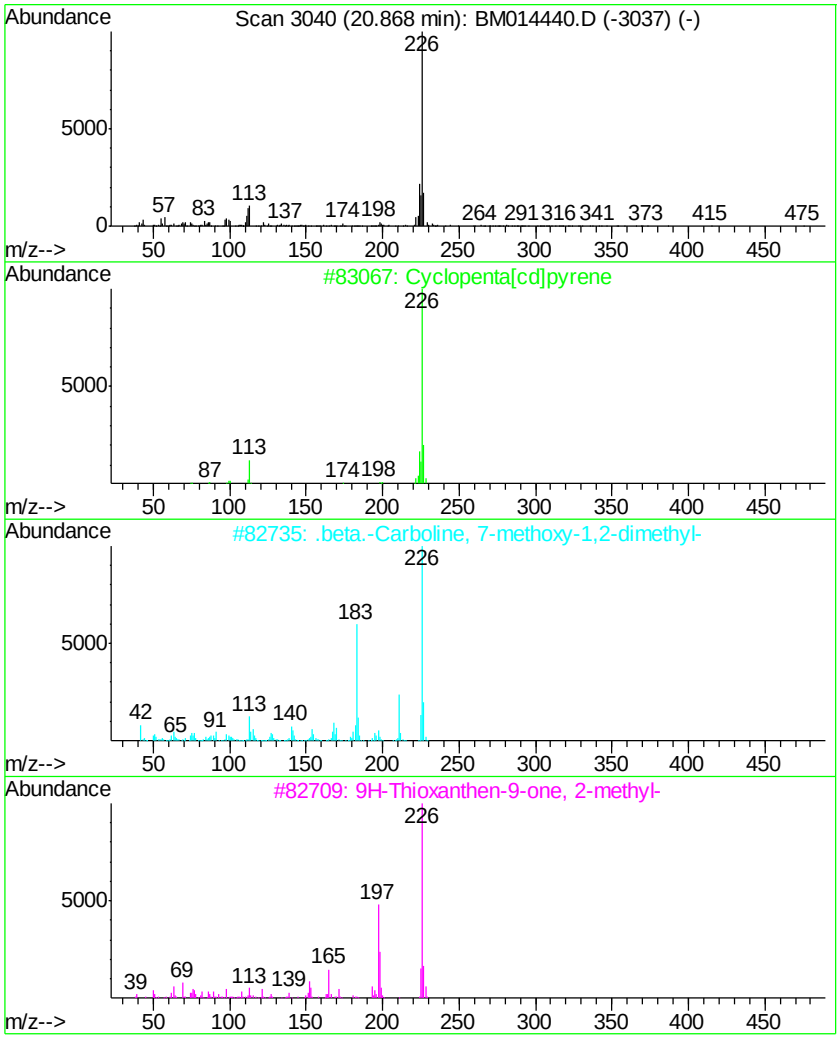
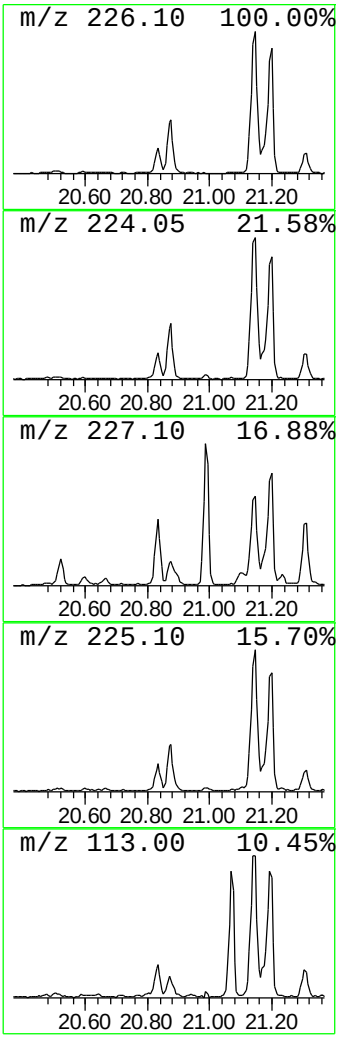
Peak Number 29 Cyclopenta[cd]pyrene Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.87	2.69 ng/ul	2277520	Chrysene-d12	21.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	59
2	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	52
3	9H-Thioxanthen-9-one, 2-methyl-	226	C14H10OS	015774-82-0	50
4	5(10H)-Pyrido[3,4-b]quinolone, 7...	226	C13H10N2O2	1000256-99-5	40
5	2-Furfurylidene-7-hydroxy-1-inda...	226	C14H10O3	1000244-80-4	40





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Quant Title : SVOA CALIBRATION

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

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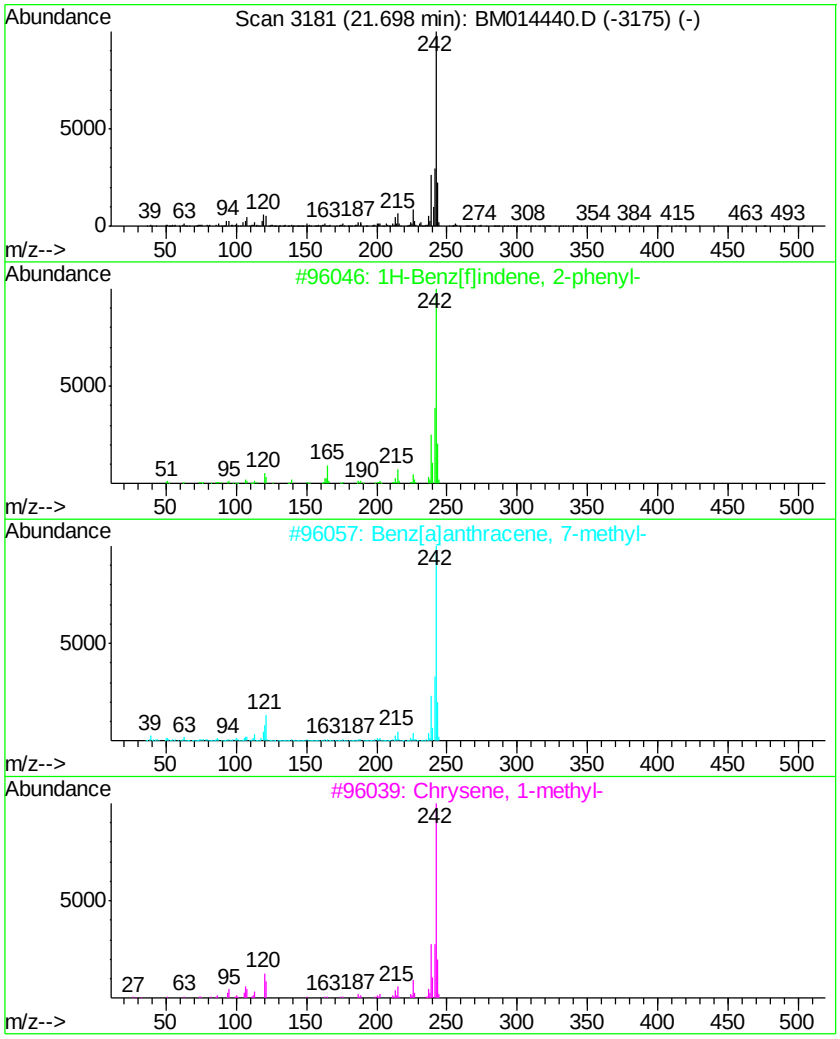
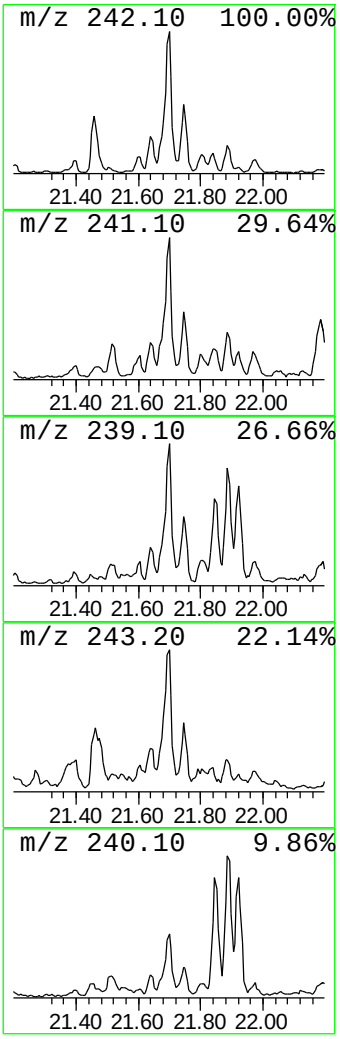
Peak Number 30 1H-Benz[f]indene, 2-phenyl- Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.70	2.61 ng/ul	2209580	Chrysene-d12	21.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Benz[f]indene, 2-phenyl-	242	C19H14	1000305-22-4	96
2	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	96
3	Chrysene, 1-methyl-	242	C19H14	003351-28-8	95
4	Benz[a]anthracene, 12-methyl-	242	C19H14	002422-79-9	93
5	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	93





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Quant Title : SVOA CALIBRATION

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

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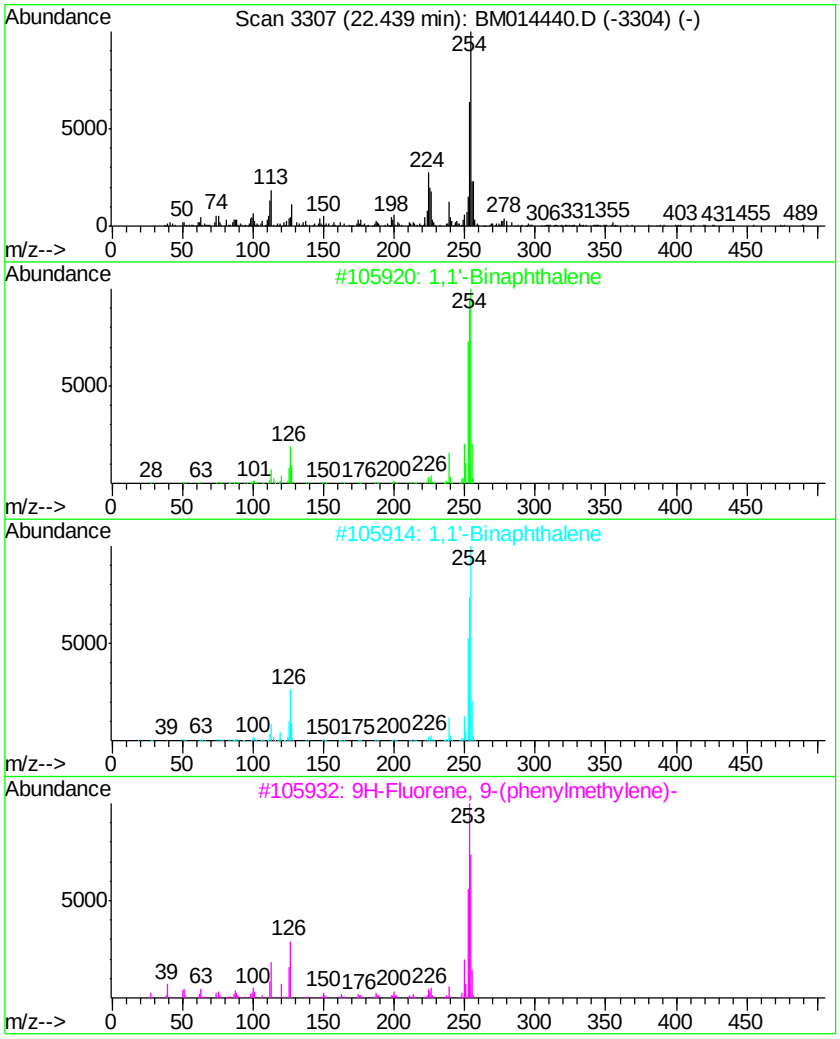
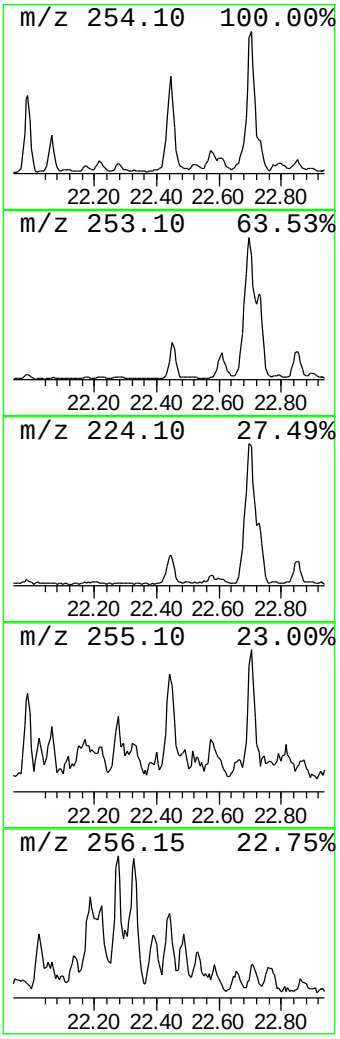
Peak Number 31 1,1'-Binaphthalene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.44	11.13 ng/ul	850132	Perylene-d12	23.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Binaphthalene	254	C20H14	000604-53-5	76
2	1,1'-Binaphthalene	254	C20H14	000604-53-5	70
3	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	64
4	4,5-Dihydrobenzo[e]pyrene	254	C20H14	095676-42-9	64
5	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	62





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Data File : BM014440.D
Acq On : 01 Mar 2018 19:34
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5X6

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

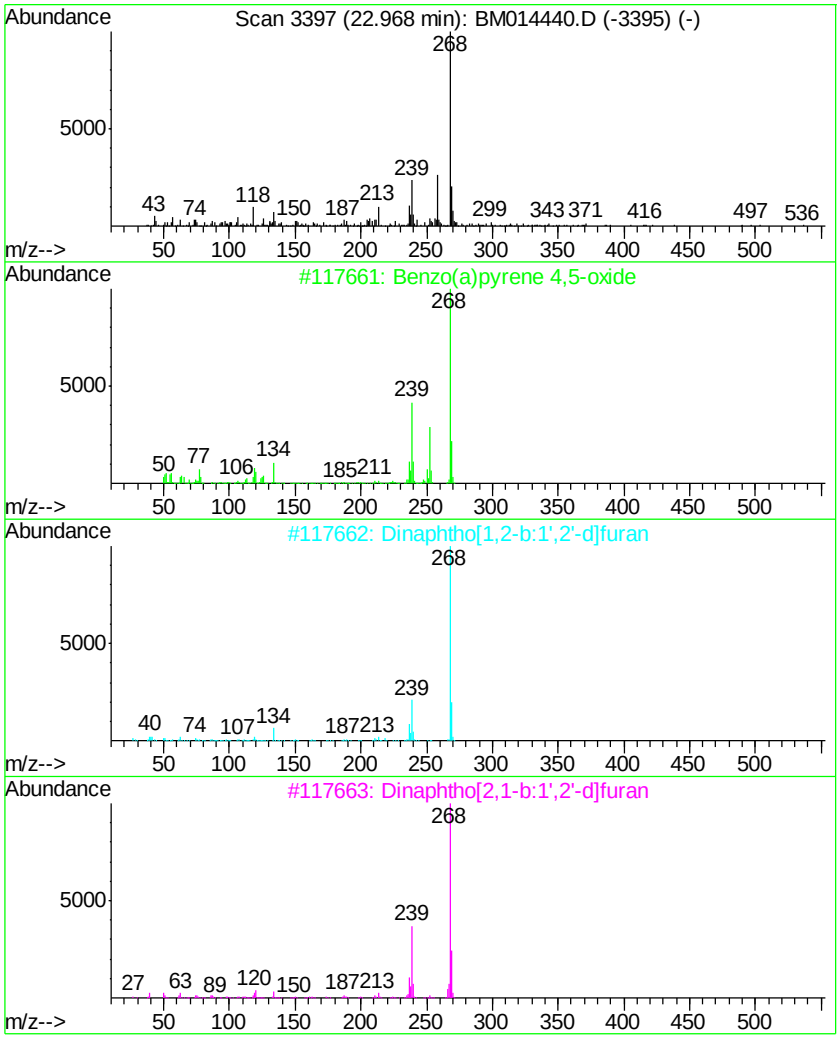
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

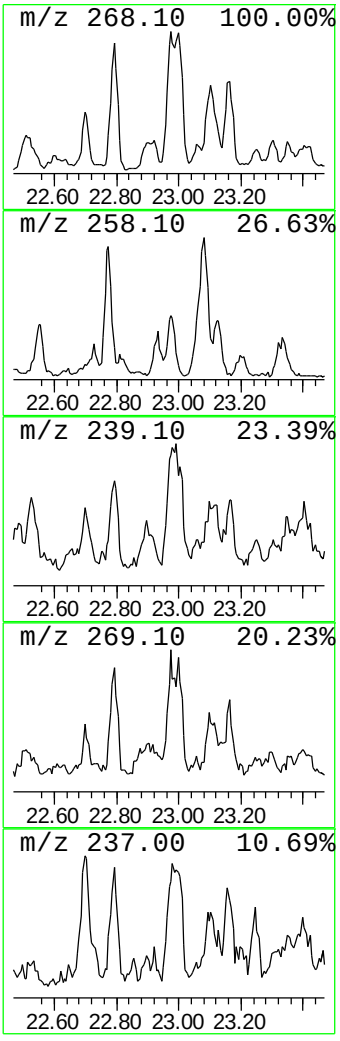
****

Peak Number 33 Benzo(a)pyrene 4,5-oxide Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.97	9.29 ng/ul	709679	Perylene-d12	23.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	81
2	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	81
3	Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	74
4	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	64
5	4H-Dibenz[a,kl]anthracene, 5,6-d...	268	C21H16	007198-87-0	59





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030118\
Data File : BM014440.D
Acq On : 01 Mar 2018 19:34
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5X6

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
Naphthalene, 2,7-...	13.49	3.9	ng/ul	267650	3	14.17	1385590	20.0
Dibenzofuran, 4-m...	15.53	7.1	ng/ul	490128	3	14.17	1385590	20.0
9H-Fluorene, 1-me...	16.24	8.0	ng/ul	637802	4	16.93	1594780	20.0
2,2-Dimethyl-1-ac...	16.47	4.9	ng/ul	391786	4	16.93	1594780	20.0
9H-Fluoren-9-one	16.60	5.6	ng/ul	443062	4	16.93	1594780	20.0
Phenol, 3-(2-phen...	16.67	4.1	ng/ul	327161	4	16.93	1594780	20.0
Naphtho[2,3-b]thi...	16.75	9.3	ng/ul	738229	4	16.93	1594780	20.0
Acridine	17.14	3.4	ng/ul	267617	4	16.93	1594780	20.0
Anthracene, 9-eth...	17.45	5.0	ng/ul	402162	4	16.93	1594780	20.0
4-Methylnaphtho[1...	17.52	5.2	ng/ul	412687	4	16.93	1594780	20.0
Phenanthrene, 1-m...	17.81	22.3	ng/ul	1774470	4	16.93	1594780	20.0
4H-Cyclopenta[def...	18.00	38.2	ng/ul	3047630	4	16.93	1594780	20.0
1H-Cyclopropa[l]p...	18.05	14.8	ng/ul	1181380	4	16.93	1594780	20.0
Naphthalene, 2-ph...	18.32	15.7	ng/ul	1250590	4	16.93	1594780	20.0
9,10-Anthracenedione	18.38	11.0	ng/ul	873937	4	16.93	1594780	20.0
Anthracene, 2-ethyl-	18.56	6.2	ng/ul	493825	4	16.93	1594780	20.0
Phenanthrene, 3,6...	18.62	4.8	ng/ul	378567	4	16.93	1594780	20.0
di-p-Tolylacetylene	18.66	5.1	ng/ul	406296	4	16.93	1594780	20.0
Phenanthrene, 1,7...	18.74	16.9	ng/ul	1343850	4	16.93	1594780	20.0
Acephenanthrylene...	18.80	12.0	ng/ul	955523	4	16.93	1594780	20.0
9,10-Dimethylanth...	18.83	3.9	ng/ul	314381	4	16.93	1594780	20.0
Cyclopenta(def)ph...	18.90	16.2	ng/ul	1294200	4	16.93	1594780	20.0
11H-Benzo[b]fluorene	19.88	3.0	ng/ul	2565990	5	21.16	16911700	20.0
Pyrene, 1-methyl-	20.03	2.5	ng/ul	2115470	5	21.16	16911700	20.0
Benzo[b]naphtho[2...	20.79	2.2	ng/ul	1889400	5	21.16	16911700	20.0
Cyclopenta[cd]pyrene	20.87	2.7	ng/ul	2277520	5	21.16	16911700	20.0
1H-Benz[f]indene,...	21.70	2.6	ng/ul	2209580	5	21.16	16911700	20.0
1,1'-Binaphthalene	22.44	11.1	ng/ul	850132	6	23.33	1528090	20.0
Benzo(a)pyrene 4,...	22.97	9.3	ng/ul	709679	6	23.33	1528090	20.0