LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG080815\
Data File : BG018323.D
Acq On : 8 Aug 2015 10:09
Operator : UM/TP
Sample : G3095-12DL 10X
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : C01S3DL

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_G\METHODS\SOM02.2-EPA-BG080815.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	6.613	663	668	671	rBV3	3660	4918	0.57%	0.063%
2	6.748	688	691	695	rVB2	4382	5549	0.65%	0.071%
3	6.942	720	724	728	rBV3	3597	4946	0.58%	0.063%
4	7.400	795	802	808	rBV	75259	116054	13.56%	1.479%
5	8.141	925	928	932	rBV2	4128	6890	0.81%	0.088%
6	8.564	997	1000	1004	rVB	4767	5455	0.64%	0.070%
7	9.833	1212	1216	1221	rVB4	3994	5780	0.68%	0.074%
8	10.185	1269	1276	1281	rBV	100138	167248	19.55%	2.132%
9	10.232	1281	1284	1291	rVB	62249	95235	11.13%	1.214%
10	10.356	1300	1305	1310	rVB2	3608	6490	0.76%	0.083%
11	11.871	1557	1563	1570	rVB	15675	24695	2.89%	0.315%
12	12.089	1595	1600	1607	rBV2	7198	12604	1.47%	0.161%
13	12.911	1736	1740	1746	rVB2	5991	9204	1.08%	0.117%
14	13.111	1770	1774	1778	rBV2	4476	6272	0.73%	0.080%
15	13.405	1821	1824	1828	rVB	3136	4160	0.49%	0.053%
16	13.505	1837	1841	1846	rVV	12034	14935	1.75%	0.190%
17	13.552	1846	1849	1855	rVB	4865	5938	0.69%	0.076%
18	13.775	1883	1887	1891	rBV	9138	13004	1.52%	0.166%
19	14.087	1931	1940	1947	rBV2	151572	235611	27.54%	3.003%
20	14.151	1947	1951	1957	rVB	109736	152444	17.82%	1.943%
21	14.410	1992	1995	2001	rVB2	6700	9288	1.09%	0.118%
22	14.492	2004	2009	2015	rBV	40113	59416	6.94%	0.757%
23	15.091	2107	2111	2116	rBV2	15275	19749	2.31%	0.252%
24	15.150	2116	2121	2126	rVV	75949	100423	11.74%	1.280%
25	15.273	2138	2142	2145	rVV2	9489	12458	1.46%	0.159%
26	15.315	2145	2149	2152	rVV2	8538	12748	1.49%	0.163%
27	15.362	2152	2157	2159	rVV	3294	4186	0.49%	0.053%
28	15.397	2159	2163	2166	rVV3	7133	9012	1.05%	0.115%
29	15.450	2168	2172	2177	rVB	7866	9807	1.15%	0.125%
30	15.597	2192	2197	2204	rBV3	10373	18994	2.22%	0.242%
31	15.837	2233	2238	2239	rBV2	5594	7963	0.93%	0.102%
32	16.161	2290	2293	2298	rVB3	6551	10867	1.27%	0.139%
33	16.208	2298	2301	2303	rBV2	3713	4761	0.56%	0.061%
34	16.278	2312	2313	2317	rVV3	2848	4448	0.52%	0.057%

LSC Area Percent Report

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Operator : UM/TP
Sample : G3095-12DL 10X
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : C01S3DL

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_G\METHODS\SOM02.2-EPA-BG080815.M
Title : SVOA CALIBRATION

35	16.425	2335	2338	2343	rVV4	4872	5719	0.67%	0.073%
36	16.507	2348	2352	2355	rBV	6731	7338	0.86%	0.094%
37	16.607	2359	2369	2372	rBV5	15799	27229	3.18%	0.347%
38	16.666	2376	2379	2386	rVB2	31385	45543	5.32%	0.581%
39	16.848	2403	2410	2414	rBV	200618	297701	34.80%	3.795%
40	16.895	2414	2418	2423	rVV	571287	733597	85.74%	9.351%
41	16.954	2423	2428	2429	rVV3	22534	32285	3.77%	0.412%
42	16.983	2429	2433	2438	rVV	118572	160916	18.81%	2.051%
43	17.042	2438	2443	2449	rVB2	15573	24779	2.90%	0.316%
44	17.230	2471	2475	2476	rBV2	12239	11992	1.40%	0.153%
45	17.265	2477	2481	2486	rVB	64387	86182	10.07%	1.099%
46	17.377	2496	2500	2502	rBV3	8500	8017	0.94%	0.102%
47	17.430	2504	2509	2510	rBV2	5455	4913	0.57%	0.063%
48	17.729	2554	2560	2564	rBV2	31255	45531	5.32%	0.580%
49	17.776	2564	2568	2574	rVB3	44982	61503	7.19%	0.784%
50	17.859	2577	2582	2587	rVB2	16178	22609	2.64%	0.288%
51	17.923	2587	2593	2597	rBV2	72457	116356	13.60%	1.483%
52	17.958	2597	2599	2603	rVB3	16381	19819	2.32%	0.253%
53	18.041	2609	2613	2615	rBV2	5242	6685	0.78%	0.085%
54	18.082	2619	2620	2622	rVV	9061	5574	0.65%	0.071%
55	18.135	2625	2629	2632	rVV4	3931	6027	0.70%	0.077%
56	18.235	2642	2646	2650	rVV2	27296	37223	4.35%	0.474%
57	18.282	2651	2654	2660	rVB3	18402	24184	2.83%	0.308%
58	18.423	2676	2678	2682	rBV3	4235	5706	0.67%	0.073%
59	18.487	2686	2689	2694	rVV5	7358	11447	1.34%	0.146%
60	18.658	2714	2718	2722	rVV2	10135	16156	1.89%	0.206%
61	18.734	2725	2731	2732	rVV6	8777	14754	1.72%	0.188%
62	18.805	2738	2743	2749	rVB7	9654	20225	2.36%	0.258%
63	18.928	2758	2764	2771	rVB	660552	855566	100.00%	10.906%
64	18.998	2773	2776	2778	rBV3	5621	7304	0.85%	0.093%
65	19.022	2778	2780	2785	rVB2	10715	13572	1.59%	0.173%
66	19.128	2794	2798	2799	rBV4	7525	7835	0.92%	0.100%
67	19.175	2802	2806	2810	rVB	17153	25678	3.00%	0.327%
68	19.292	2816	2826	2831	rBV	466696	827680	96.74%	10.551%
69	19.369	2836	2839	2843	rVB4	19107	26296	3.07%	0.335%
70	19.451	2850	2853	2854	rBV3	3938	4094	0.48%	0.052%
71	19.474	2854	2857	2862	rVB2	29639	39157	4.58%	0.499%

LSC Area Percent Report

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Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : C01S3DL

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
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Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080815.M
Title : SVOA CALIBRATION

72	19.539	2863	2868	2872	rVB	36251	49008	5.73%	0.625%
73	19.621	2877	2882	2884	rBV3	17842	29753	3.48%	0.379%
74	19.680	2889	2892	2896	rVB	16247	20711	2.42%	0.264%
75	19.762	2901	2906	2907	rVV4	20115	30534	3.57%	0.389%
76	19.797	2908	2912	2917	rVB	81552	106786	12.48%	1.361%
77	19.845	2917	2920	2923	rBV4	6549	8668	1.01%	0.110%
78	19.897	2924	2929	2933	rVV	95106	115135	13.46%	1.468%
79	19.956	2933	2939	2941	rVV3	29942	49324	5.77%	0.629%
80	19.986	2941	2944	2949	rVB2	32706	50092	5.85%	0.639%
81	20.038	2949	2953	2955	rBV4	13510	17985	2.10%	0.229%
82	20.091	2957	2962	2966	rBV2	18048	29477	3.45%	0.376%
83	20.138	2966	2970	2974	rBV4	17744	30135	3.52%	0.384%
84	20.544	3037	3039	3041	rBV3	12816	11823	1.38%	0.151%
85	20.708	3064	3067	3070	rBV	46703	49284	5.76%	0.628%
86	20.749	3071	3074	3077	rVB	32395	34507	4.03%	0.440%
87	20.785	3077	3080	3082	rBV	28531	36645	4.28%	0.467%
88	20.949	3101	3108	3113	rBV3	19720	46114	5.39%	0.588%
89	21.055	3121	3126	3131	rBV2	323170	614755	71.85%	7.836%
90	21.102	3131	3134	3138	rVB	225151	264886	30.96%	3.377%
91	21.219	3150	3154	3157	rBV2	67461	82150	9.60%	1.047%
92	21.384	3177	3182	3187	rBV4	30387	44230	5.17%	0.564%
93	21.789	3248	3251	3253	rBV3	19475	23438	2.74%	0.299%
94	22.577	3379	3385	3390	rBV2	164658	366455	42.83%	4.671%
95	22.735	3409	3412	3417	rVB	28607	42427	4.96%	0.541%
96	23.029	3458	3462	3472	rVB	86898	160467	18.76%	2.046%
97	23.123	3473	3478	3486	rVB	158076	257340	30.08%	3.280%
98	23.217	3489	3494	3498	rBV	90229	152143	17.78%	1.939%
99	25.379	3856	3862	3872	rVB2	84610	225250	26.33%	2.871%
100	26.037	3970	3974	3976	rBV3	28620	46533	5.44%	0.593%

Sum of corrected areas: 7844799

Data Path : Z:\HPCHEM1\BNA G\DATA\BG080815\
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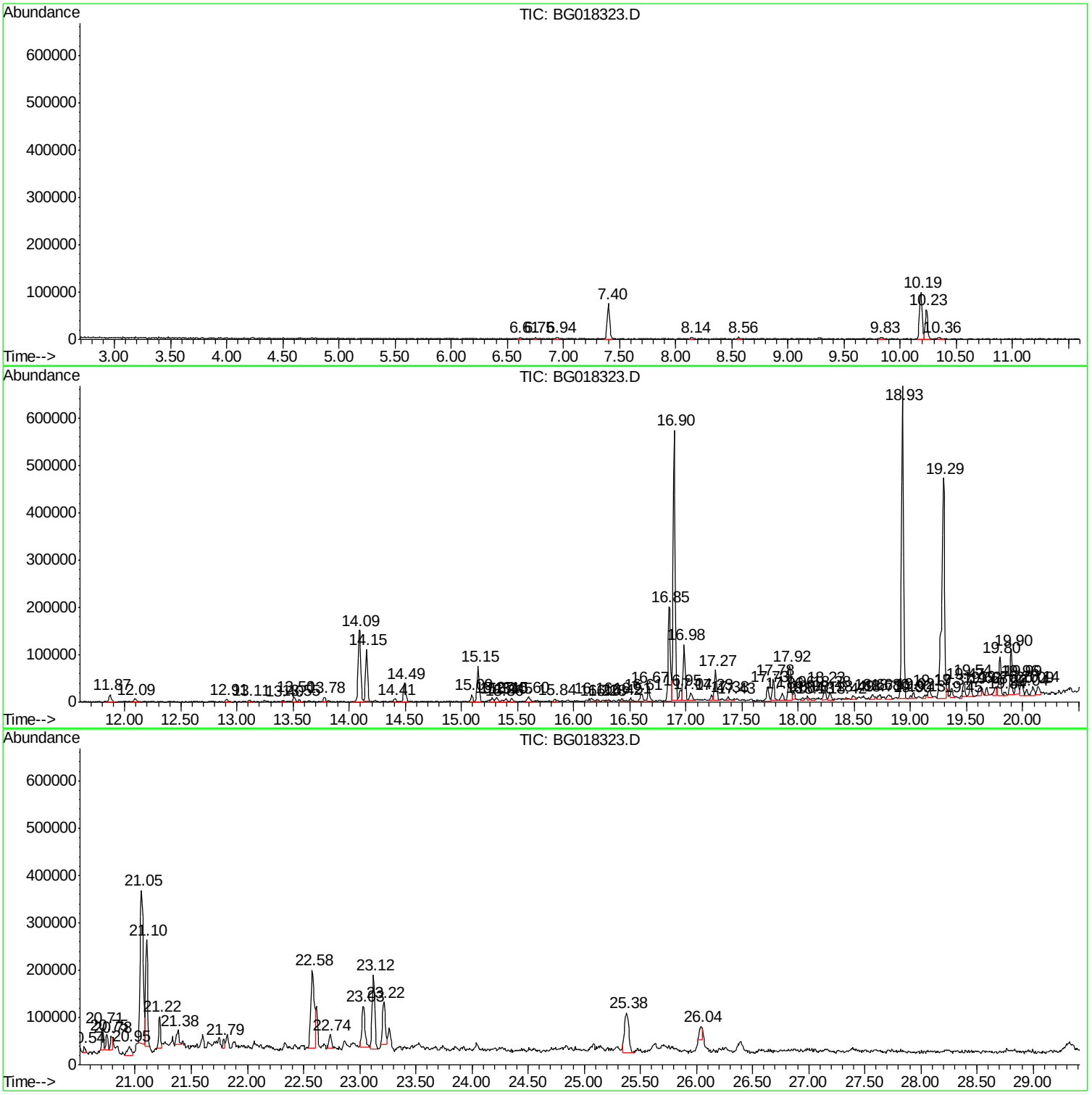
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : C01S3DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080815.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



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Sample : G3095-12DL 10X
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_G
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Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080815.M
Quant Title : SVOA CALIBRATION

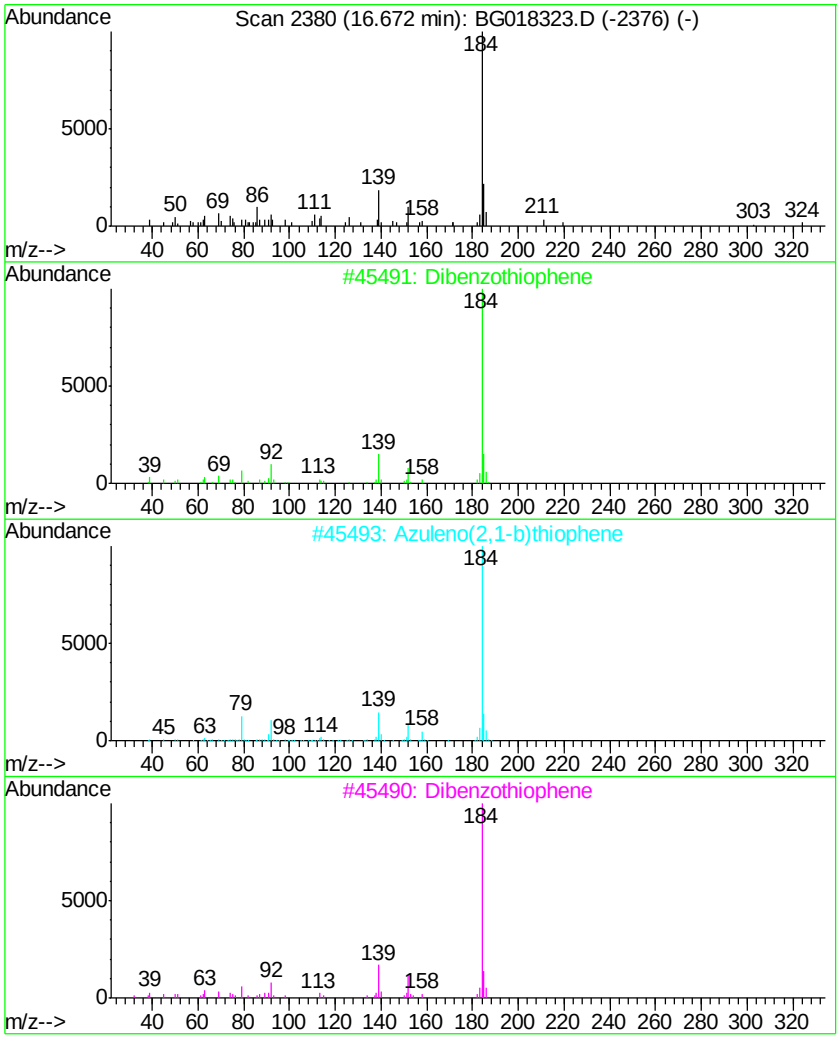
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

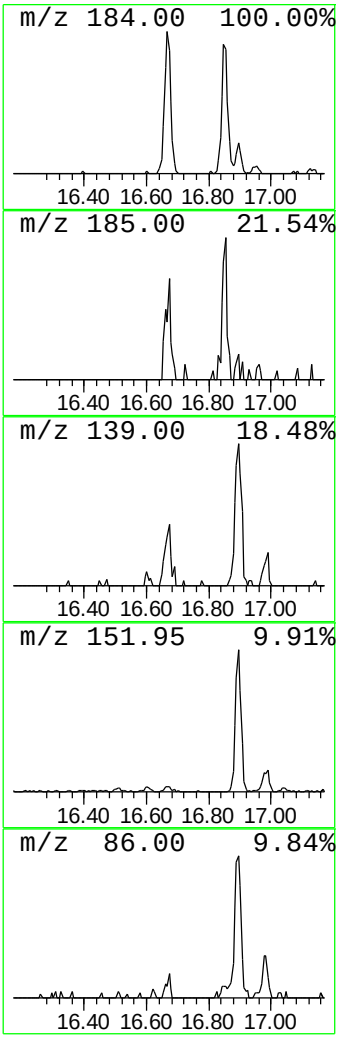
****

Peak Number 1 Dibenzothiophene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.67	3.06 ng/ul	45543	Phenanthrene-d10	16.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	90
2	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90
3	Dibenzothiophene	184	C12H8S	000132-65-0	87
4	Dibenzothiophene	184	C12H8S	000132-65-0	87
5	Dibenzothiophene	184	C12H8S	000132-65-0	80





Data Path : Z:\HPCHEM1\BNA G\DATA\BG080815\
Data File : BG018323.D
Acq On : 8 Aug 2015 10:09
Operator : UM/TP
Sample : G3095-12DL 10X
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : C01S3DL

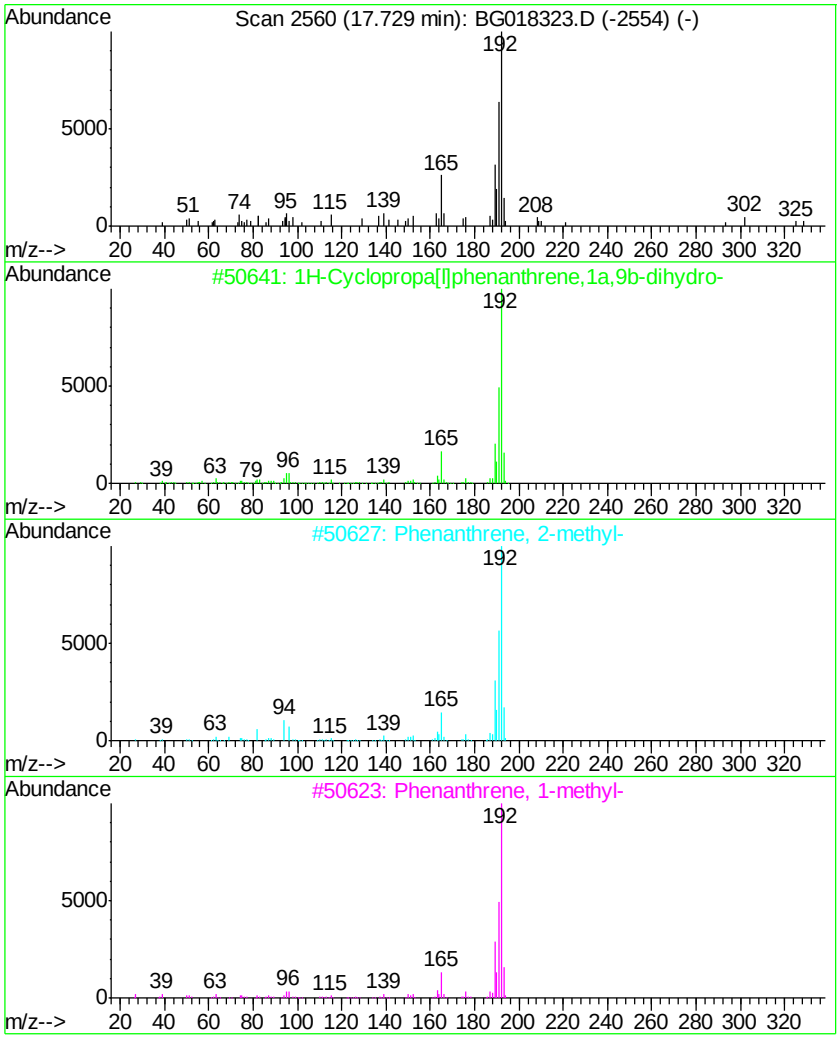
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080815.M
Quant Title : SVOA CALIBRATION

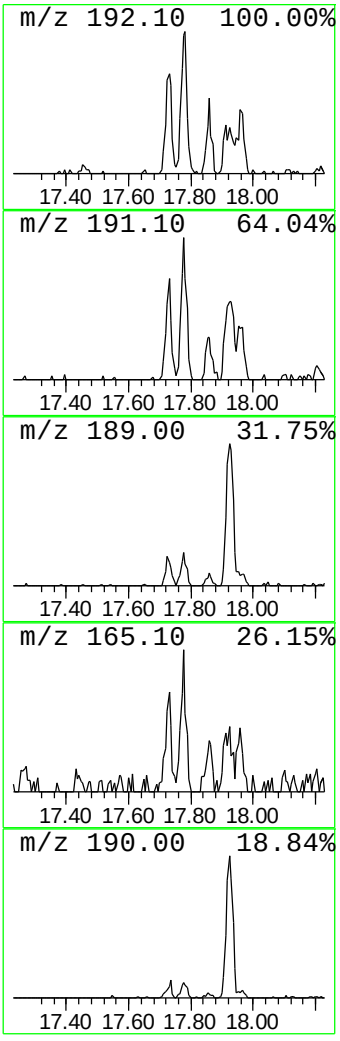
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 1H-Cyclopropa[l]phenanthren... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.73	3.06 ng/ul	45531	Phenanthrene-d10	16.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	90
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	86
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	86
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	81





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG080815\
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Operator : UM/TP
Sample : G3095-12DL 10X
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : C01S3DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080815.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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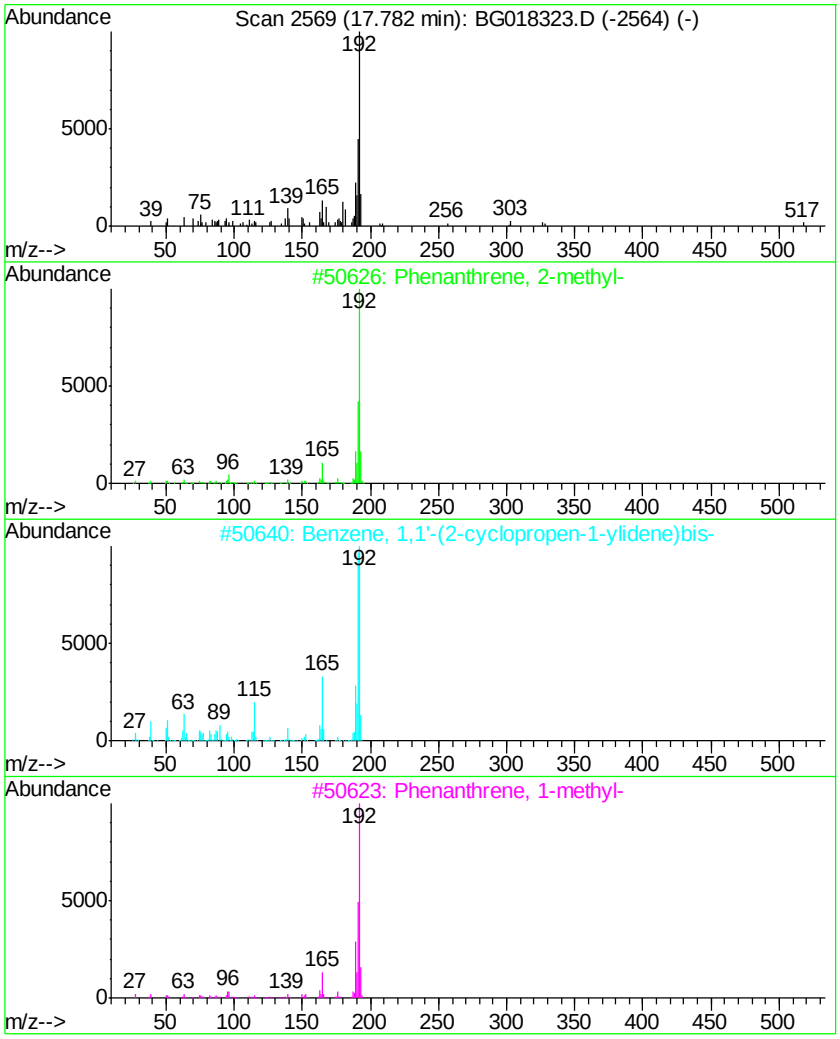
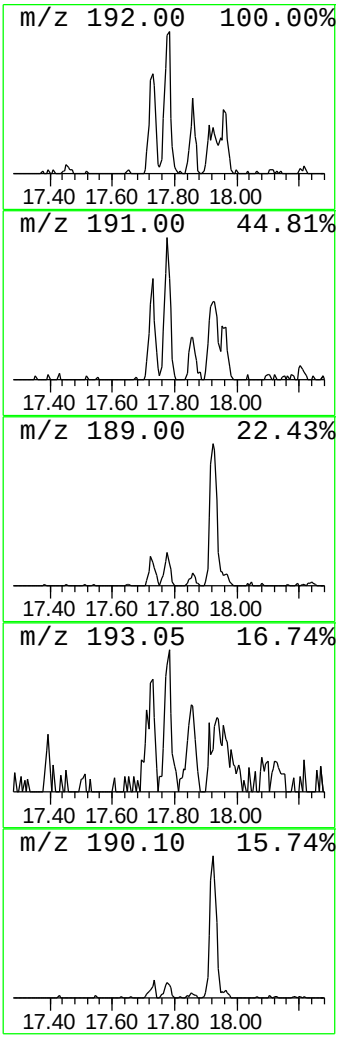
Peak Number 3 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.78	4.13 ng/ul	61503	Phenanthrene-d10	16.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	81
2	Benzene, 1,1'-(2-cyclopropen-1-y...	192	C15H12	022825-21-4	81
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	81
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	76
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	76





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Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : C01S3DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080815.M
Quant Title : SVOA CALIBRATION

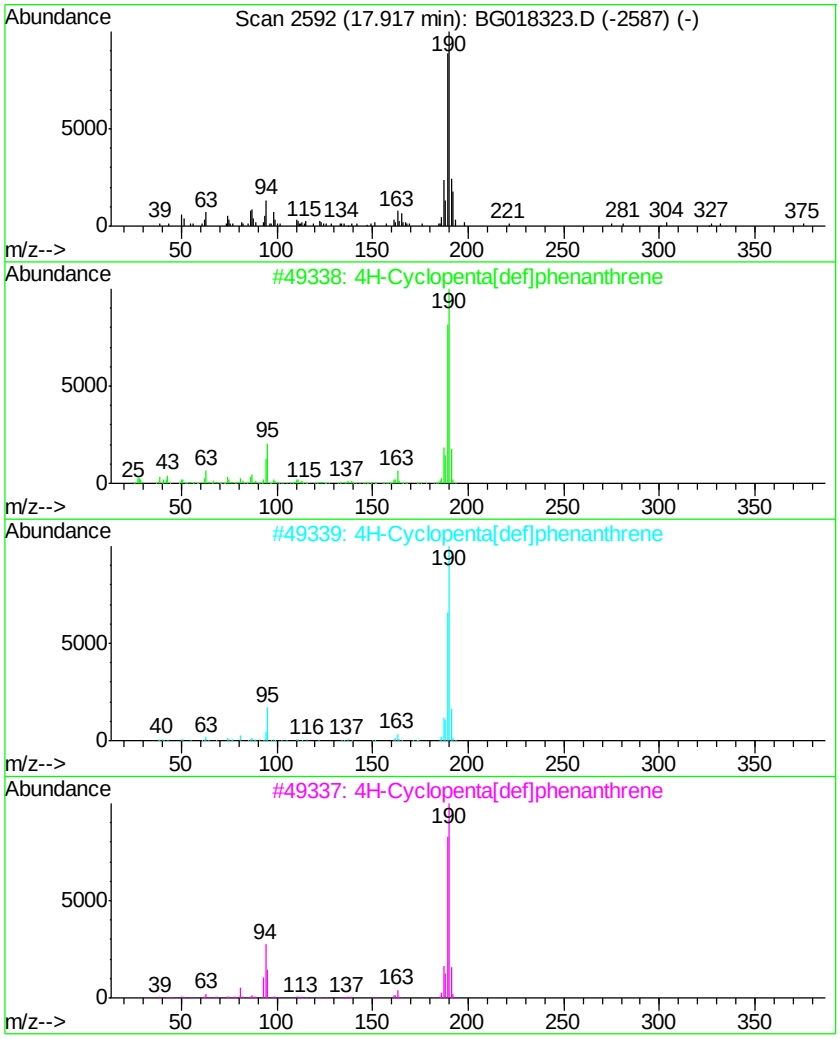
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

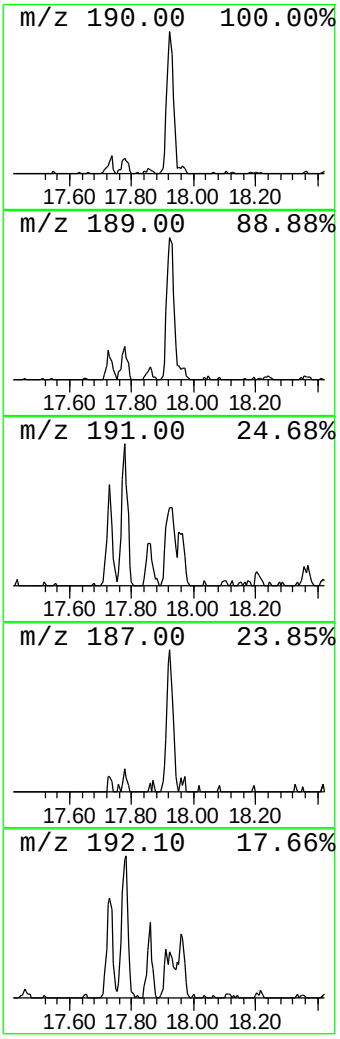
****

Peak Number 4 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.92	7.82 ng/ul	116356	Phenanthrene-d10	16.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	81
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	80
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	72
4	Phenol, 4-(2-thienylmethyl)-	190	C11H10OS	091680-55-6	45
5	Spiro[(5-chloroacenaphten-1-one)...	302	C17H15ClO3	215930-94-2	17





Data Path : Z:\HPCHEM1\BNA G\DATA\BG080815\
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Operator : UM/TP
Sample : G3095-12DL 10X
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : C01S3DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080815.M
Quant Title : SVOA CALIBRATION

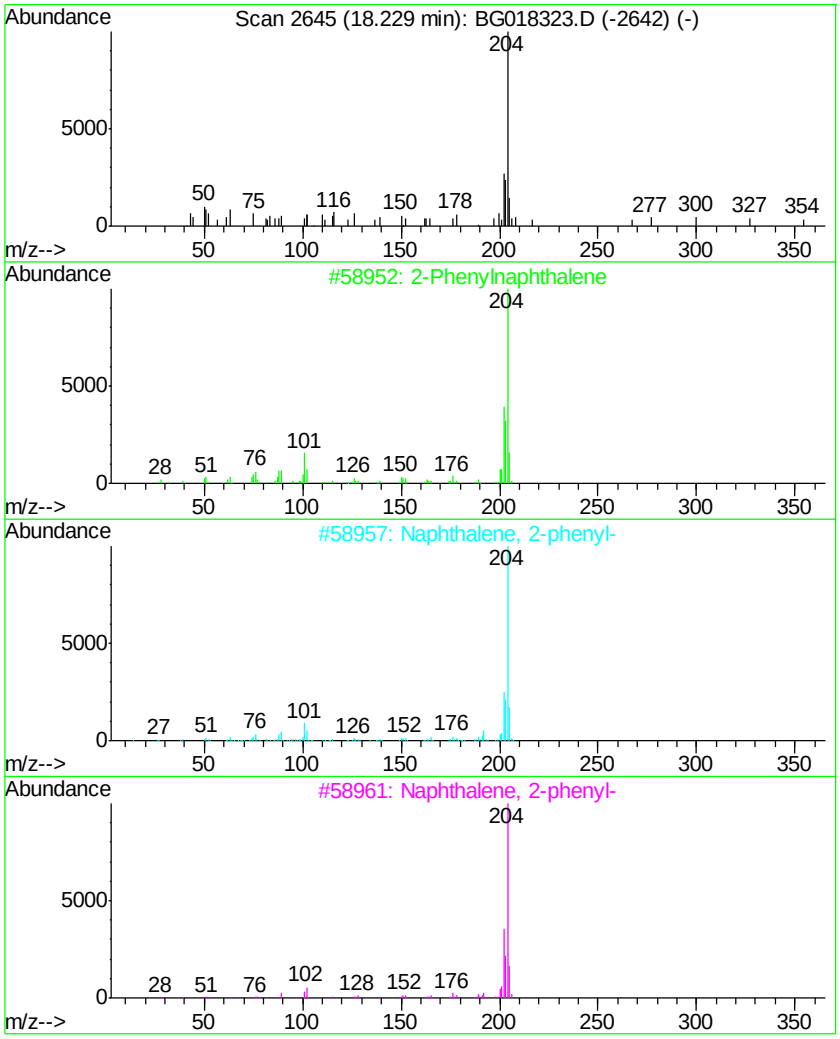
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

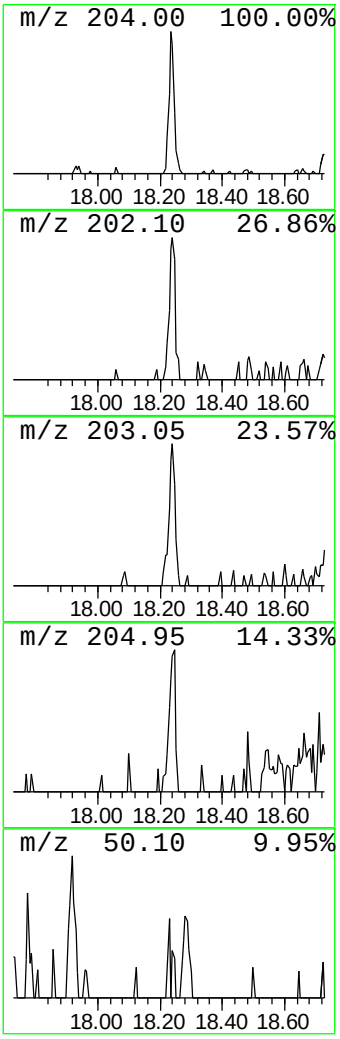
****

Peak Number 5 2-Phenylnaphthalene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.23	2.50 ng/ul	37223	Phenanthrene-d10	16.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenylnaphthalene	204	C16H12	035465-71-5	64
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	62
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	53
4	9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	50
5	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	50





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG080815\
Data File : BG018323.D
Acq On : 8 Aug 2015 10:09
Operator : UM/TP
Sample : G3095-12DL 10X
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : C01S3DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080815.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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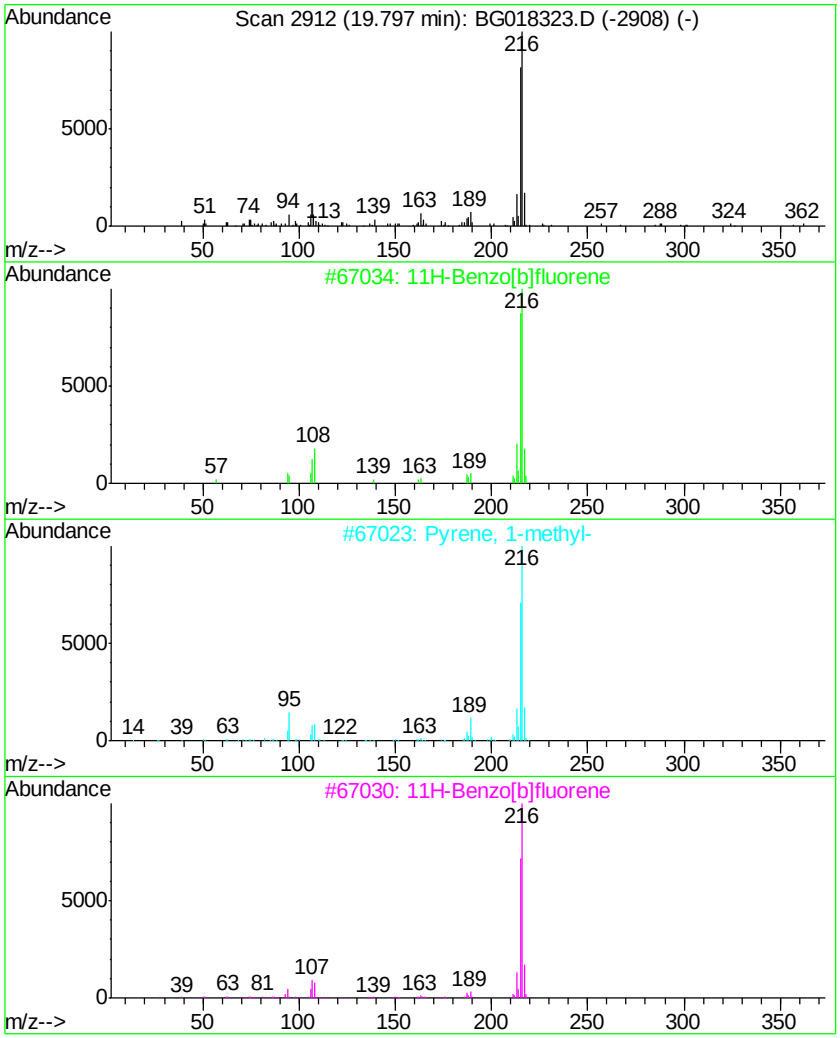
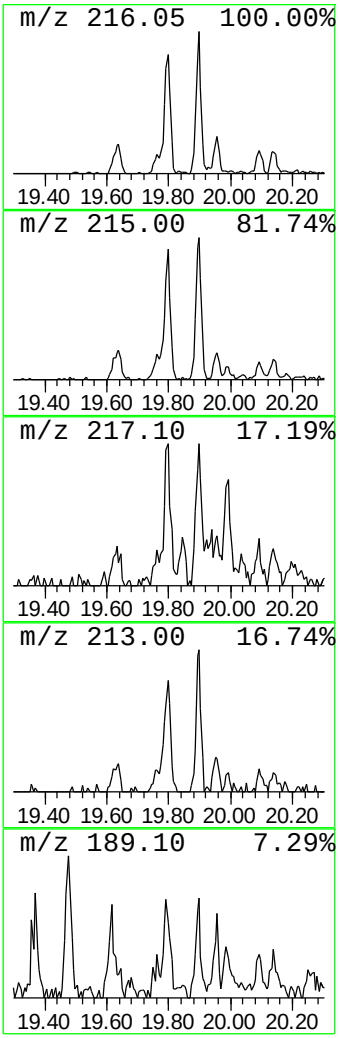
Peak Number 6 11H-Benzo[b]fluorene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.80	3.47 ng/ul	106786	Chrysene-d12	21.07

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	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90





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Data File : BG018323.D
Acq On : 8 Aug 2015 10:09
Operator : UM/TP
Sample : G3095-12DL 10X
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : C01S3DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080815.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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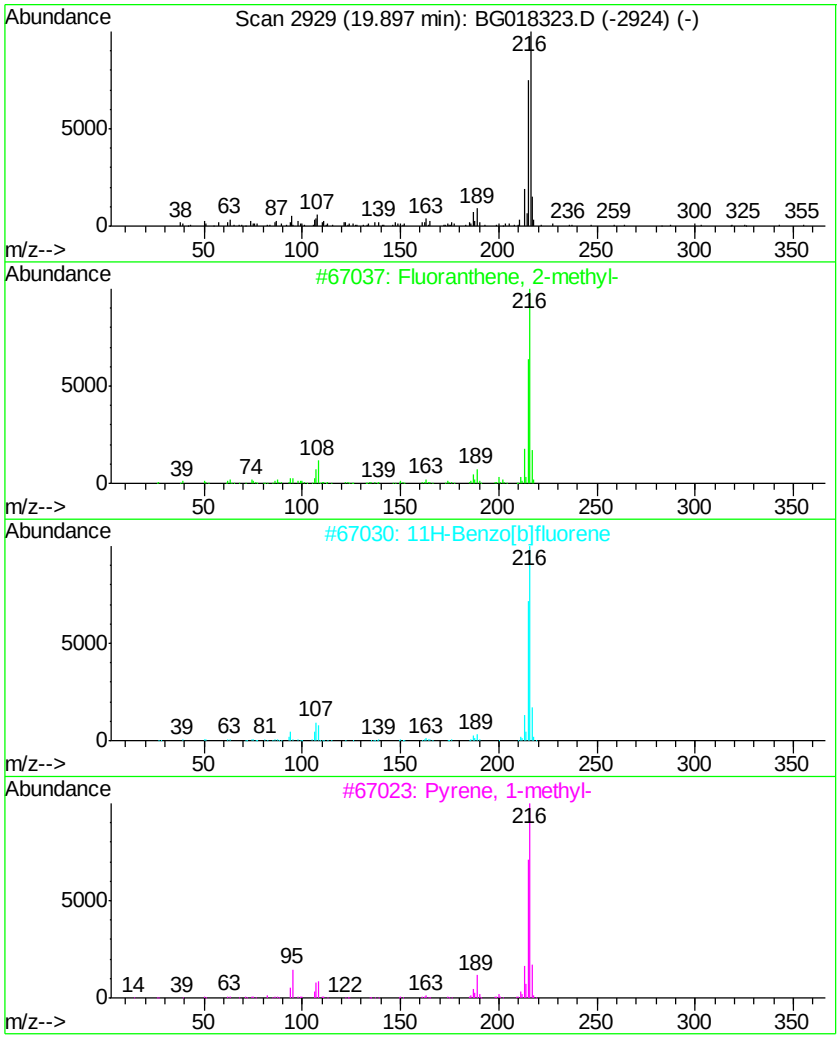
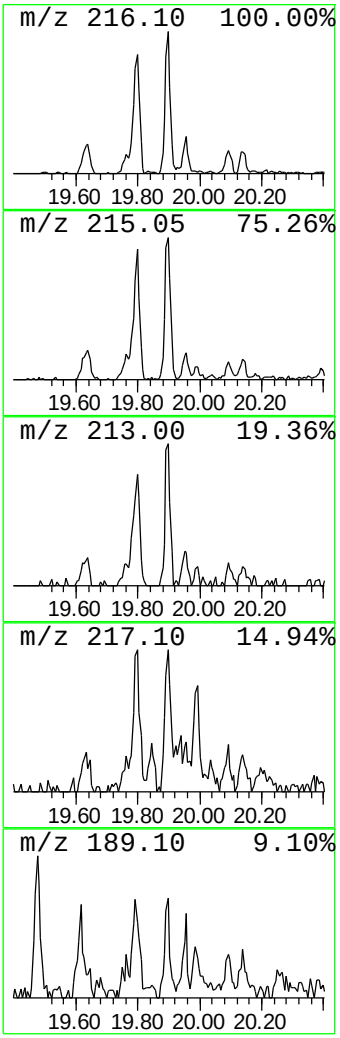
Peak Number 7 Fluoranthene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.90	3.75 ng/ul	115135	Chrysene-d12	21.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	96
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91





Data Path : Z:\HPCHEM1\BNA G\DATA\BG080815\
Data File : BG018323.D
Acq On : 8 Aug 2015 10:09
Operator : UM/TP
Sample : G3095-12DL 10X
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : C01S3DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080815.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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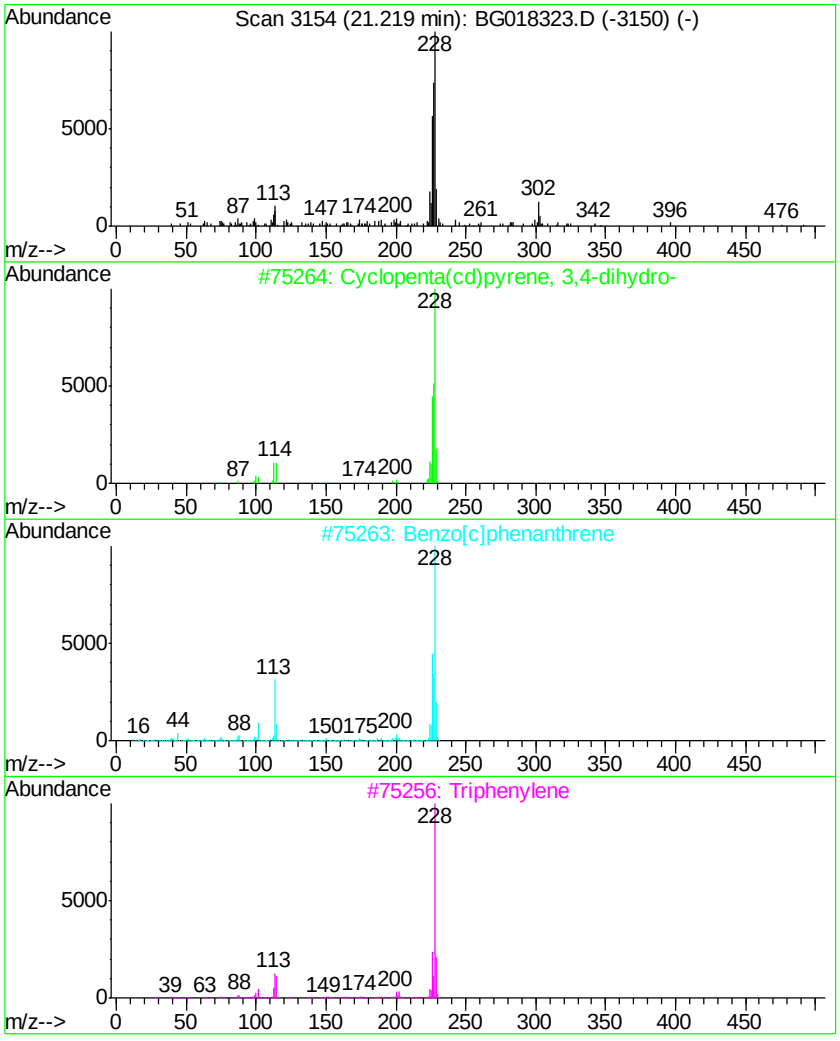
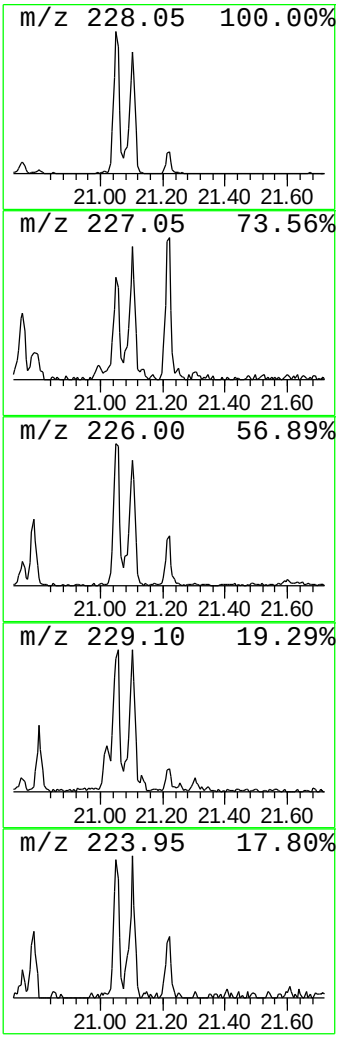
Peak Number 8 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.22	2.67 ng/ul	82150	Chrysene-d12	21.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	70
2	Benzo[c]phenanthrene	228	C18H12	000195-19-7	43
3	Triphenylene	228	C18H12	000217-59-4	38
4	Chrysene	228	C18H12	000218-01-9	38
5	Benzo[c]phenanthrene	228	C18H12	000195-19-7	38





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080815\
Data File : BG018323.D
Acq On : 8 Aug 2015 10:09
Operator : UM/TP
Sample : G3095-12DL 10X
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : C01S3DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080815.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Dibenzothiophene	16.67	3.1	ng/ul	45543	4	16.85	297701	20.0
1H-Cyclopropa[l]p...	17.73	3.1	ng/ul	45531	4	16.85	297701	20.0
Phenanthrene, 2-m...	17.78	4.1	ng/ul	61503	4	16.85	297701	20.0
4H-Cyclopenta[def...	17.92	7.8	ng/ul	116356	4	16.85	297701	20.0
2-Phenylnaphthalene	18.23	2.5	ng/ul	37223	4	16.85	297701	20.0
11H-Benzo[b]fluorene	19.80	3.5	ng/ul	106786	5	21.07	614755	20.0
Fluoranthene, 2-m...	19.90	3.8	ng/ul	115135	5	21.07	614755	20.0
Cyclopenta(cd)pyr...	21.22	2.7	ng/ul	82150	5	21.07	614755	20.0