LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG082417\
Data File : BG028459.D
Acq On : 24 Aug 2017 14:10
Operator : SJ/JU
Sample : I4827-05ME
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : B0AB4ME

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 1

Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080217.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	7.492	657	664	677	rBV	148569	286352	13.44%	0.875%
2	7.651	685	691	703	rBV	107922	188457	8.84%	0.576%
3	7.874	721	729	739	rBV	138975	262262	12.31%	0.801%
4	8.338	798	808	822	rVB2	120354	228357	10.72%	0.698%
5	9.032	919	926	937	rBV2	185300	368142	17.28%	1.125%
6	9.508	996	1007	1016	rBV2	151675	298204	13.99%	0.911%
7	10.230	1122	1130	1139	rBV	137501	261461	12.27%	0.799%
8	10.777	1216	1223	1239	rVB	199311	395955	18.58%	1.210%
9	11.159	1278	1288	1293	rBV	183869	346214	16.25%	1.058%
10	11.206	1293	1296	1303	rVV	72825	124609	5.85%	0.381%
11	11.294	1303	1311	1323	rVB2	140337	287067	13.47%	0.877%
12	12.792	1559	1566	1574	rVV	48954	82595	3.88%	0.252%
13	13.009	1594	1603	1611	rVB2	35079	61903	2.91%	0.189%
14	13.785	1730	1735	1742	rVB3	15336	25021	1.17%	0.076%
15	14.120	1778	1792	1800	rBV4	18618	50065	2.35%	0.153%
16	14.267	1807	1817	1822	rBV4	33676	64705	3.04%	0.198%
17	14.337	1822	1829	1834	rVV	499497	757553	35.55%	2.315%
18	14.384	1834	1837	1844	rVB	93922	131516	6.17%	0.402%
19	14.502	1851	1857	1870	rBV3	18342	38535	1.81%	0.118%
20	14.649	1874	1882	1894	rBV	443293	765865	35.94%	2.340%
21	14.948	1918	1933	1939	rBV2	312621	545304	25.59%	1.666%
22	15.013	1939	1944	1951	rVB	95130	149221	7.00%	0.456%
23	15.148	1960	1967	1981	rVV2	168970	365845	17.17%	1.118%
24	15.254	1981	1985	1991	rVV7	13176	28650	1.34%	0.088%
25	15.342	1991	2000	2007	rVV	115498	215893	10.13%	0.660%
26	15.407	2007	2011	2018	rVB5	13545	26021	1.22%	0.080%
27	15.553	2028	2036	2041	rBV6	12947	28599	1.34%	0.087%
28	15.712	2056	2063	2065	rBV4	12964	22005	1.03%	0.067%
29	15.747	2065	2069	2076	rVB6	20964	43039	2.02%	0.132%
30	15.935	2092	2101	2107	rBV	620800	1013861	47.58%	3.098%
31	15.994	2107	2111	2117	rVB	157962	245413	11.52%	0.750%
32	16.059	2117	2122	2130	rBV	235947	392943	18.44%	1.201%
33	16.153	2135	2138	2145	rVB7	15694	30787	1.44%	0.094%
34	16.282	2156	2160	2171	rVB	37973	68859	3.23%	0.210%

LSC Area Percent Report

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Data File : BG028459.D
Acq On : 24 Aug 2017 14:10
Operator : SJ/JU
Sample : I4827-05ME
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : B0AB4ME

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 1

Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080217.M
Title : SVOA CALIBRATION

35	16.429	2178	2185	2195	rBV2	41466	91222	4.28%	0.279%
36	16.523	2195	2201	2209	rVB4	11092	23956	1.12%	0.073%
37	16.611	2210	2216	2234	rBV5	23630	74989	3.52%	0.229%
38	16.999	2270	2282	2287	rBV5	39552	102451	4.81%	0.313%
39	17.046	2287	2290	2295	rVB5	22812	34584	1.62%	0.106%
40	17.146	2303	2307	2311	rVB3	20525	32362	1.52%	0.099%
41	17.222	2312	2320	2323	rBV7	21480	50666	2.38%	0.155%
42	17.257	2323	2326	2334	rVB3	19466	35693	1.68%	0.109%
43	17.351	2335	2342	2347	rVV	31271	58802	2.76%	0.180%
44	17.410	2347	2352	2363	rVV7	29218	76657	3.60%	0.234%
45	17.516	2365	2370	2379	rVB	68561	115995	5.44%	0.354%
46	17.698	2393	2401	2404	rBV	434458	693416	32.54%	2.119%
47	17.745	2404	2409	2414	rVV	1255988	1962723	92.11%	5.997%
48	17.798	2414	2418	2431	rVB2	749522	1507268	70.74%	4.606%
49	18.103	2461	2470	2484	rBV	124962	269168	12.63%	0.822%
50	18.209	2484	2488	2492	rVB2	23337	31072	1.46%	0.095%
51	18.280	2494	2500	2506	rBV6	22026	42715	2.00%	0.131%
52	18.421	2520	2524	2532	rVB6	19395	48029	2.25%	0.147%
53	18.497	2532	2537	2539	rBV5	13350	21550	1.01%	0.066%
54	18.568	2540	2549	2553	rVV	169803	328287	15.41%	1.003%
55	18.620	2553	2558	2563	rVB	218276	343289	16.11%	1.049%
56	18.697	2565	2571	2576	rBV	79177	112675	5.29%	0.344%
57	18.767	2576	2583	2595	rVV4	214591	574095	26.94%	1.754%
58	18.867	2596	2600	2604	rVB6	19179	23533	1.10%	0.072%
59	18.908	2604	2607	2610	rBV3	19870	26708	1.25%	0.082%
60	19.055	2627	2632	2636	rVV	117604	166812	7.83%	0.510%
61	19.108	2636	2641	2648	rVB2	84748	132423	6.21%	0.405%
62	19.179	2649	2653	2660	rVB6	14074	22302	1.05%	0.068%
63	19.302	2670	2674	2678	rBV3	35365	50483	2.37%	0.154%
64	19.349	2678	2682	2686	rVV	39267	51842	2.43%	0.158%
65	19.384	2686	2688	2695	rVB3	34452	48201	2.26%	0.147%
66	19.467	2696	2702	2707	rBV	93503	176790	8.30%	0.540%
67	19.537	2708	2714	2722	rVV7	48226	147782	6.94%	0.452%
68	19.619	2722	2728	2737	rVB6	51964	122805	5.76%	0.375%
69	19.743	2740	2749	2754	rBV	1414121	2130861	100.00%	6.511%
70	19.831	2761	2764	2769	rVB4	36033	53085	2.49%	0.162%
71	19.890	2771	2774	2777	rBV	13196	21874	1.03%	0.067%

LSC Area Percent Report

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Data File : BG028459.D
Acq On : 24 Aug 2017 14:10
Operator : SJ/JU
Sample : I4827-05ME
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : B0AB4ME

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 1

Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080217.M
Title : SVOA CALIBRATION

72	19.931	2778	2781	2784	rVV5	24955	37932	1.78%	0.116%
73	19.984	2784	2790	2798	rVB4	42789	113231	5.31%	0.346%
74	20.072	2799	2805	2808	rVV2	1134421	1998157	93.77%	6.105%
75	20.101	2808	2810	2817	rVV	1261250	1677348	78.72%	5.125%
76	20.160	2817	2820	2827	rVB2	85446	134823	6.33%	0.412%
77	20.271	2834	2839	2844	rVB	84887	118156	5.54%	0.361%
78	20.336	2845	2850	2856	rVB	43402	82698	3.88%	0.253%
79	20.418	2857	2864	2870	rVB3	90120	230103	10.80%	0.703%
80	20.471	2870	2873	2879	rBV3	29170	54332	2.55%	0.166%
81	20.583	2880	2892	2898	rVB	203621	453523	21.28%	1.386%
82	20.683	2904	2909	2913	rBV	162998	239307	11.23%	0.731%
83	20.747	2914	2920	2923	rVB3	97997	186425	8.75%	0.570%
84	20.888	2940	2944	2948	rBV	71532	113065	5.31%	0.345%
85	20.935	2949	2952	2964	rVB2	84160	152836	7.17%	0.467%
86	21.335	3015	3020	3022	rBV6	34917	65766	3.09%	0.201%
87	21.382	3024	3028	3035	rVB	91785	176957	8.30%	0.541%
88	21.588	3053	3063	3066	rBV5	98197	272244	12.78%	0.832%
89	21.682	3074	3079	3083	rBV2	87637	151903	7.13%	0.464%
90	22.016	3128	3136	3143	rBV3	716100	1987130	93.25%	6.072%
91	22.081	3143	3147	3160	rVB	463974	856679	40.20%	2.618%
92	22.246	3170	3175	3182	rBV2	87301	161964	7.60%	0.495%
93	22.469	3208	3213	3220	rVB2	65097	118097	5.54%	0.361%
94	22.810	3267	3271	3278	rVB2	79290	164075	7.70%	0.501%
95	24.425	3535	3546	3554	rBV2	309188	1225207	57.50%	3.744%
96	25.213	3672	3680	3686	rBV	155104	469627	22.04%	1.435%
97	25.301	3687	3695	3702	rVV2	480538	1490801	69.96%	4.555%
98	25.371	3702	3707	3718	rVB	284011	763457	35.83%	2.333%
99	25.536	3727	3735	3744	rBV	238103	654143	30.70%	1.999%
100	29.566	4409	4421	4443	rVB2	104571	568962	26.70%	1.738%

Sum of corrected areas: 32727391

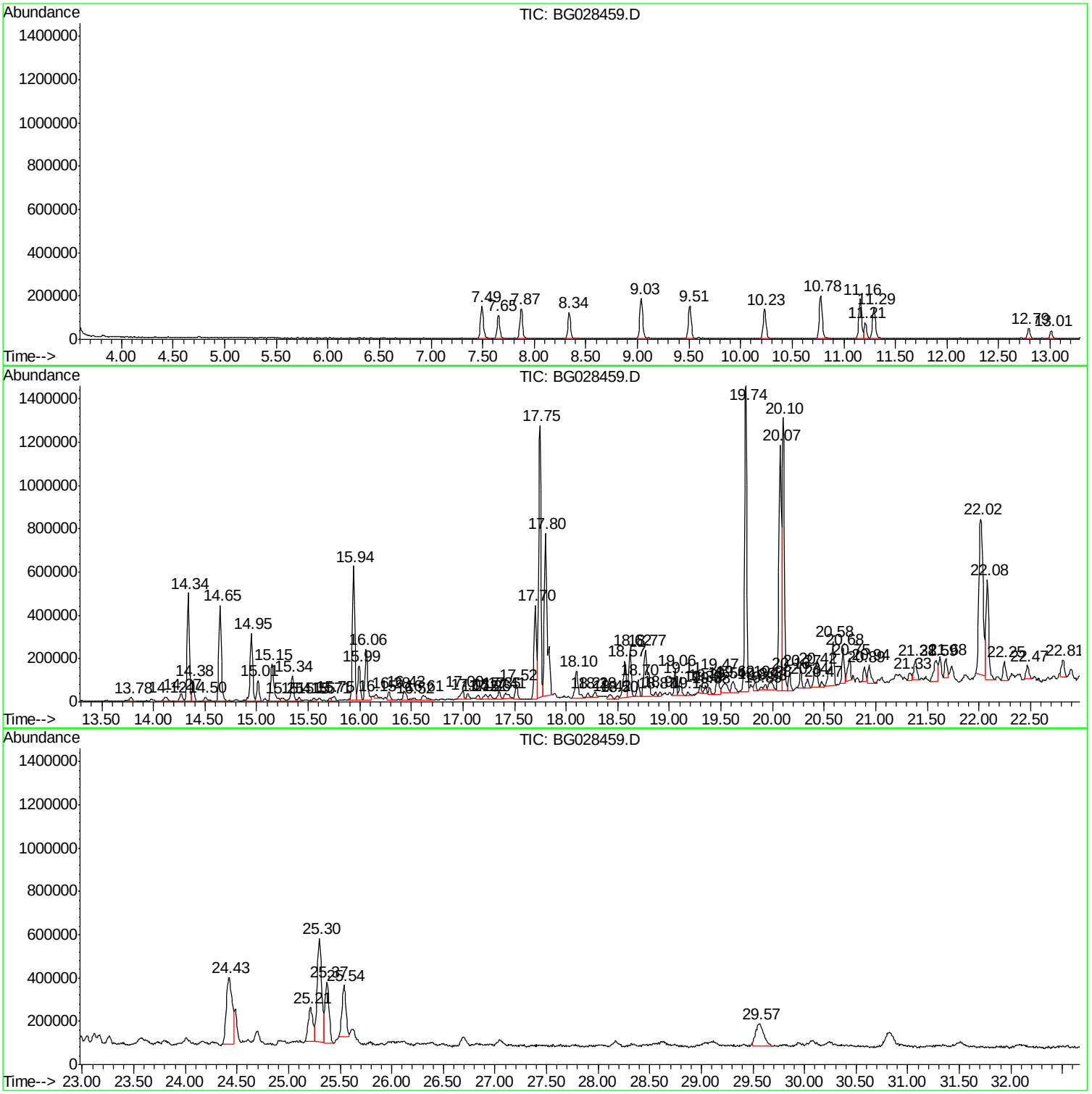
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA G\DATA\BG082417\
Data File : BG028459.D
Acq On : 24 Aug 2017 14:10
Operator : SJ/JU
Sample : I4827-05ME
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : B0AB4ME

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080217.M
Quant Title : SVOA CALIBRATION

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



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG082417\
Data File : BG028459.D
Acq On : 24 Aug 2017 14:10
Operator : SJ/JU
Sample : I4827-05ME
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : B0AB4ME

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080217.M
Quant Title : SVOA CALIBRATION

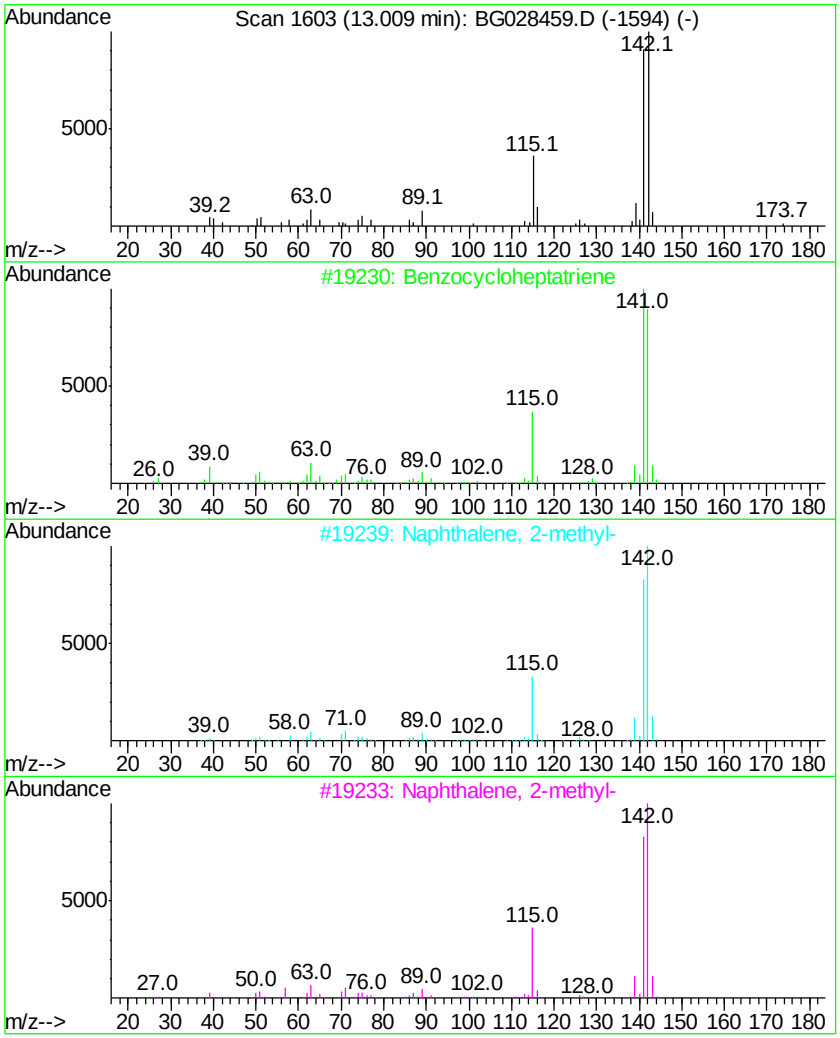
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

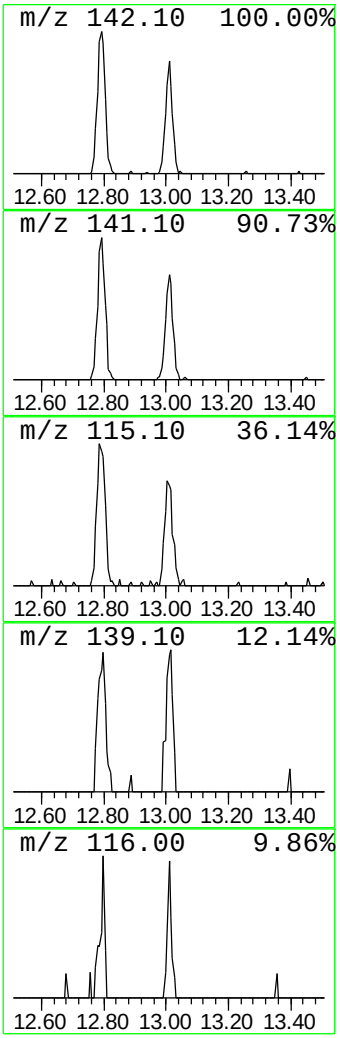
****

Peak Number 1 Benzocycloheptatriene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.01	3.58 ng/ul	61903	Naphthalene-d8	11.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzocycloheptatriene	142	C11H10	000264-09-5	91
2	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	91
3	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	91
4	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	87
5	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	86





Data Path : Z:\HPCHEM1\BNA G\DATA\BG082417\
Data File : BG028459.D
Acq On : 24 Aug 2017 14:10
Operator : SJ/JU
Sample : I4827-05ME
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : B0AB4ME

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080217.M
Quant Title : SVOA CALIBRATION

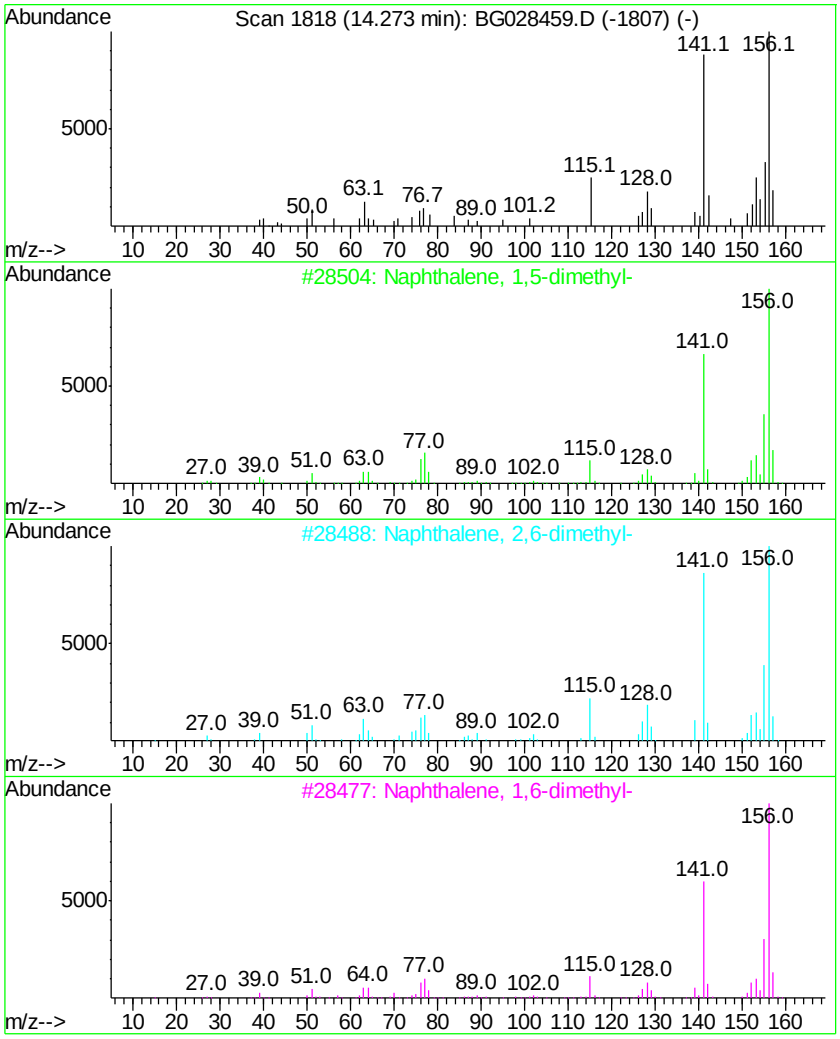
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

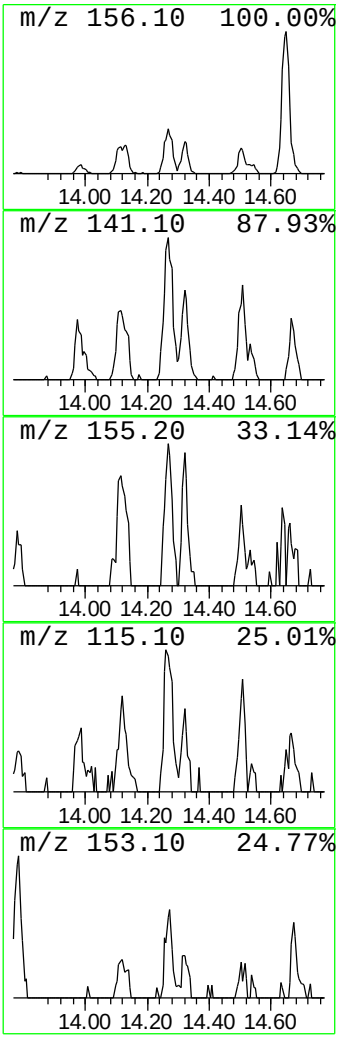
****

Peak Number 2 Naphthalene, 1,5-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.27	2.37 ng/ul	64705	Acenaphthene-d10	14.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	93
2	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	91
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	90
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	90
5	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	90





Data Path : Z:\HPCHEM1\BNA G\DATA\BG082417\
Data File : BG028459.D
Acq On : 24 Aug 2017 14:10
Operator : SJ/JU
Sample : I4827-05ME
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : B0AB4ME

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080217.M
Quant Title : SVOA CALIBRATION

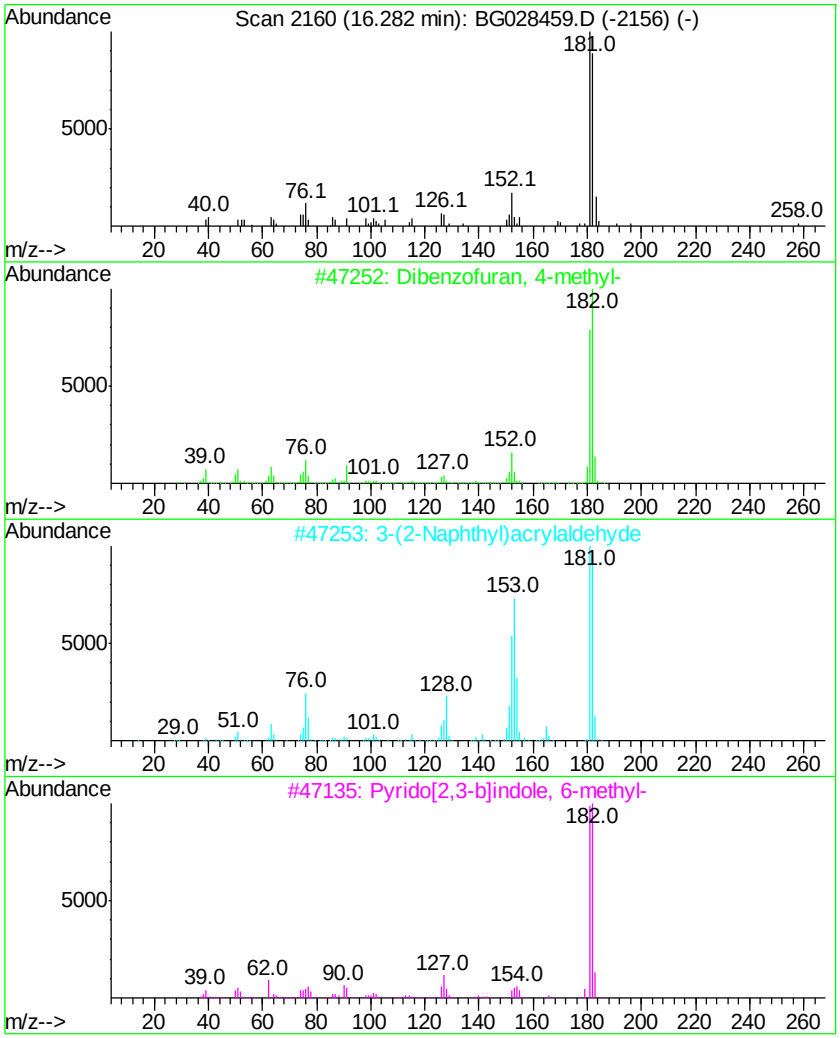
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

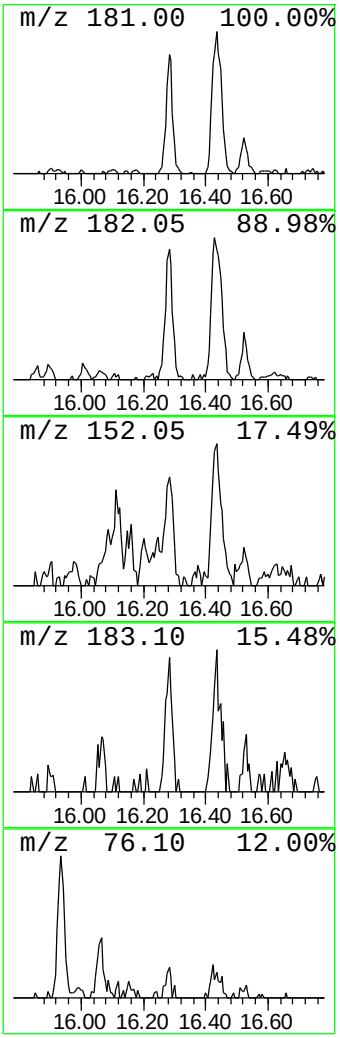
****

Peak Number 3 Dibenzofuran, 4-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.28	2.53 ng/ul	68859	Acenaphthene-d10	14.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	90
2	3-(2-Naphthyl)acrylaldehyde	182	C13H10O	020884-05-3	86
3	Pyrido[2,3-b]indole, 6-methyl-	182	C12H10N2	108349-67-3	86
4	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	78
5	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG082417\
Data File : BG028459.D
Acq On : 24 Aug 2017 14:10
Operator : SJ/JU
Sample : I4827-05ME
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : B0AB4ME

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080217.M
Quant Title : SVOA CALIBRATION

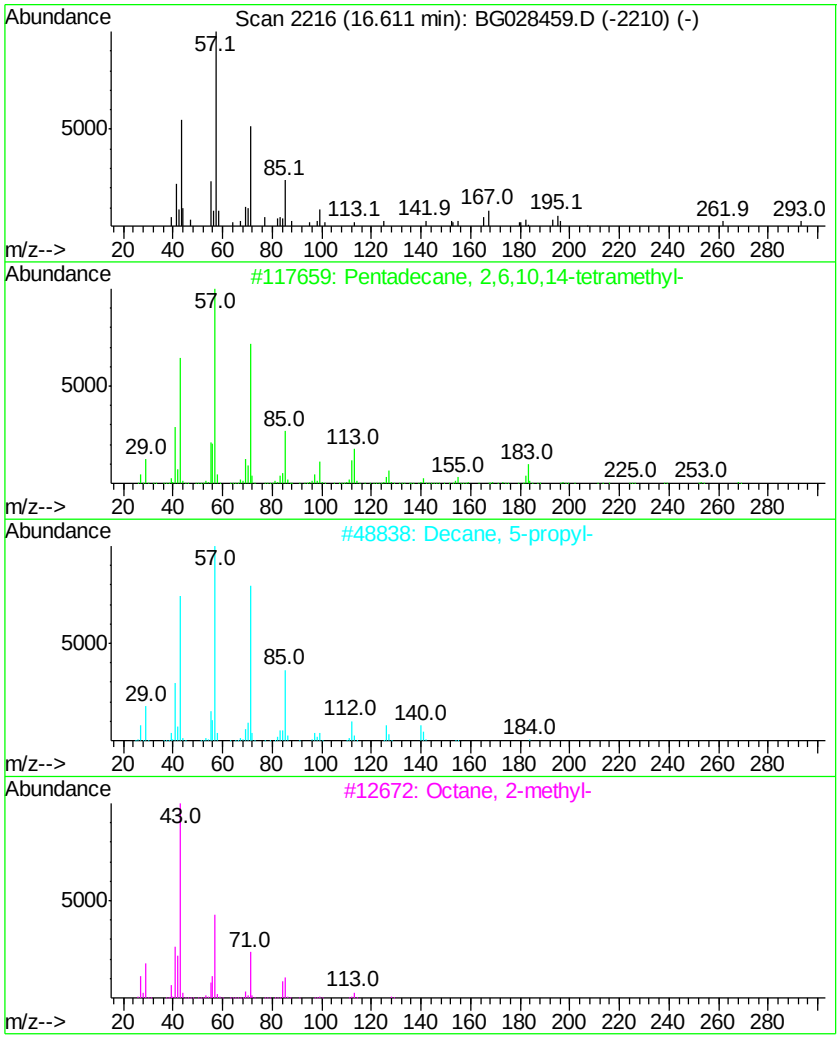
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

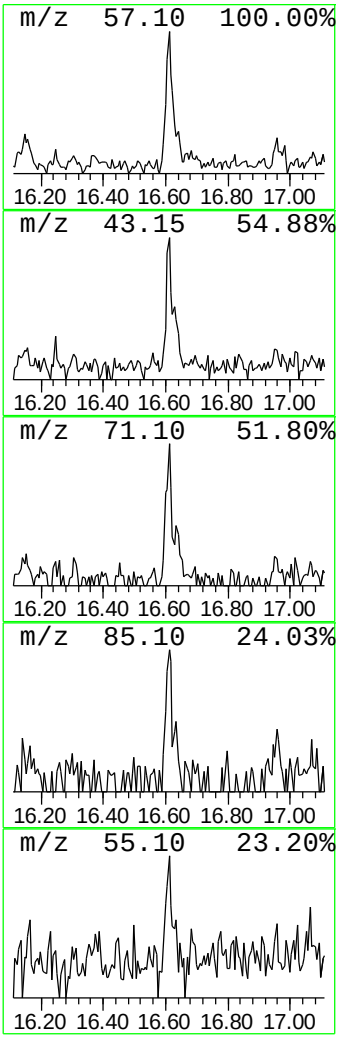
****

Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.61	2.16 ng/ul	74989	Phenanthrene-d10	17.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane, 2,6,10,14-tetramethyl-	268	C19H40	001921-70-6	64
2	Decane, 5-propyl-	184	C13H28	017312-62-8	59
3	Octane, 2-methyl-	128	C9H20	003221-61-2	59
4	Pentacosane	352	C25H52	000629-99-2	59
5	Heptacosane	380	C27H56	000593-49-7	59





Data Path : Z:\HPCHEM1\BNA G\DATA\BG082417\
Data File : BG028459.D
Acq On : 24 Aug 2017 14:10
Operator : SJ/JU
Sample : I4827-05ME
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : B0AB4ME

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080217.M
Quant Title : SVOA CALIBRATION

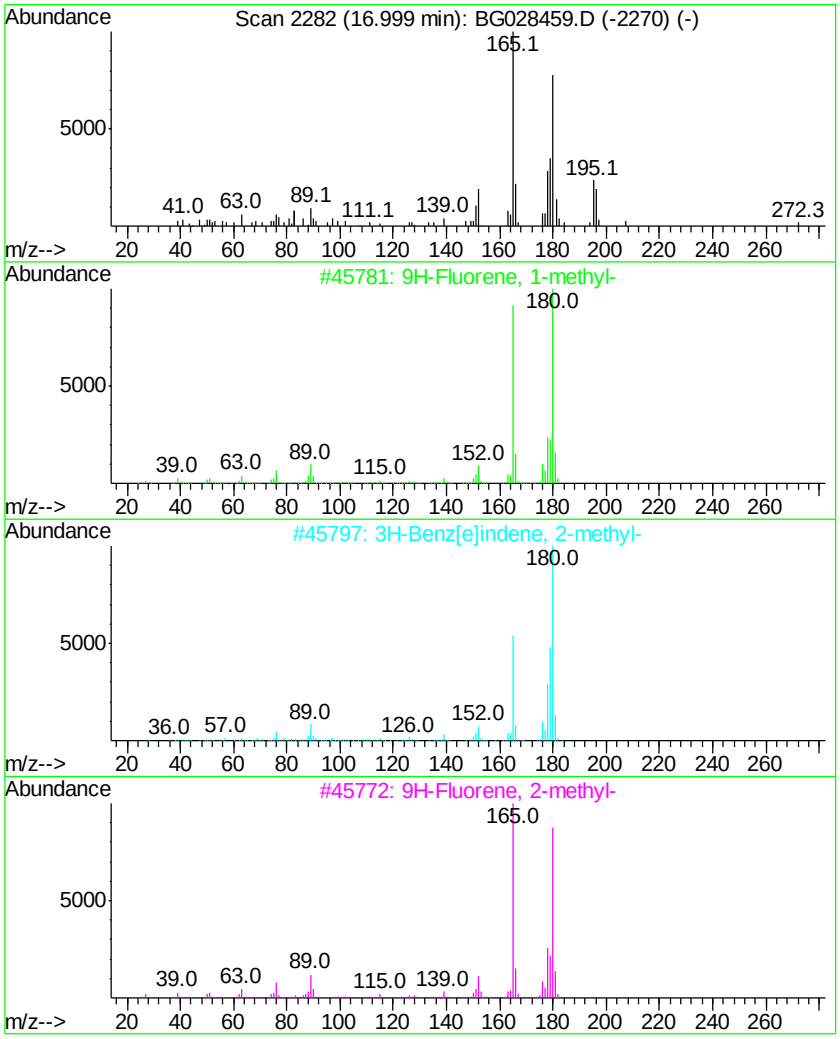
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

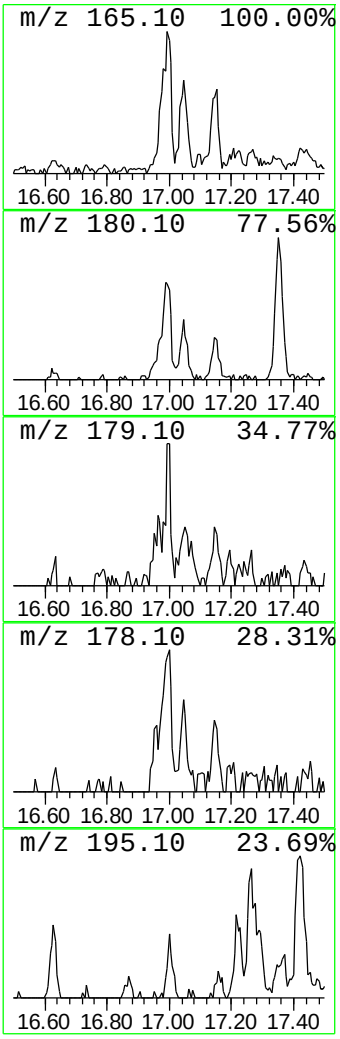
****

Peak Number 6 9H-Fluorene, 1-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.00	2.95 ng/ul	102451	Phenanthrene-d10	17.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	86
2	3H-Benz[e]indene, 2-methyl-	180	C14H12	150096-60-9	76
3	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	76
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	70
5	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	70





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Acq On : 24 Aug 2017 14:10
Operator : SJ/JU
Sample : I4827-05ME
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : B0AB4ME

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080217.M
Quant Title : SVOA CALIBRATION

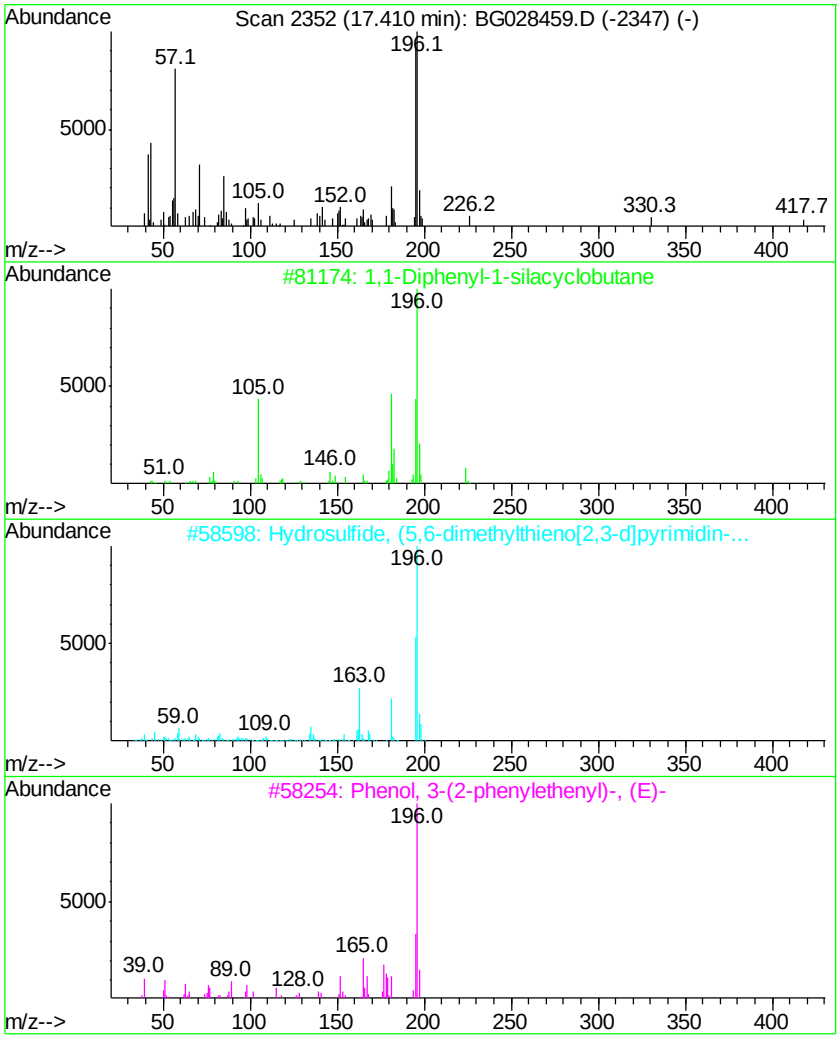
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

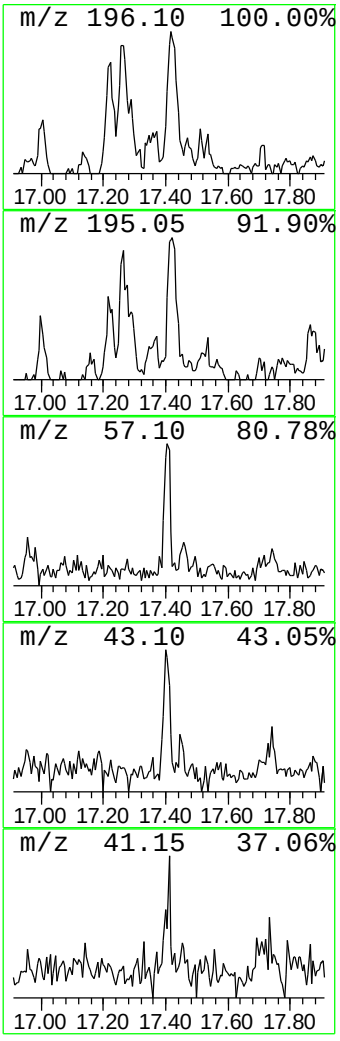
****

Peak Number 7 unknown-01 Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.41	2.21 ng/ul	76657	Phenanthrene-d10	17.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1-Diphenyl-1-silacyclobutane	224	C15H16Si	003944-09-0	43
2	Hydrosulfide, (5,6-dimethylthien...	196	C8H8N2S2	1000362-41-8	43
3	Phenol, 3-(2-phenylethenyl)-, (E)-	196	C14H12O	017861-18-6	38
4	2-Methylmercapto-5-dimethylamino...	196	C8H12N4S	052767-93-8	38
5	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	38





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Acq On : 24 Aug 2017 14:10
Operator : SJ/JU
Sample : I4827-05ME
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : B0AB4ME

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080217.M
Quant Title : SVOA CALIBRATION

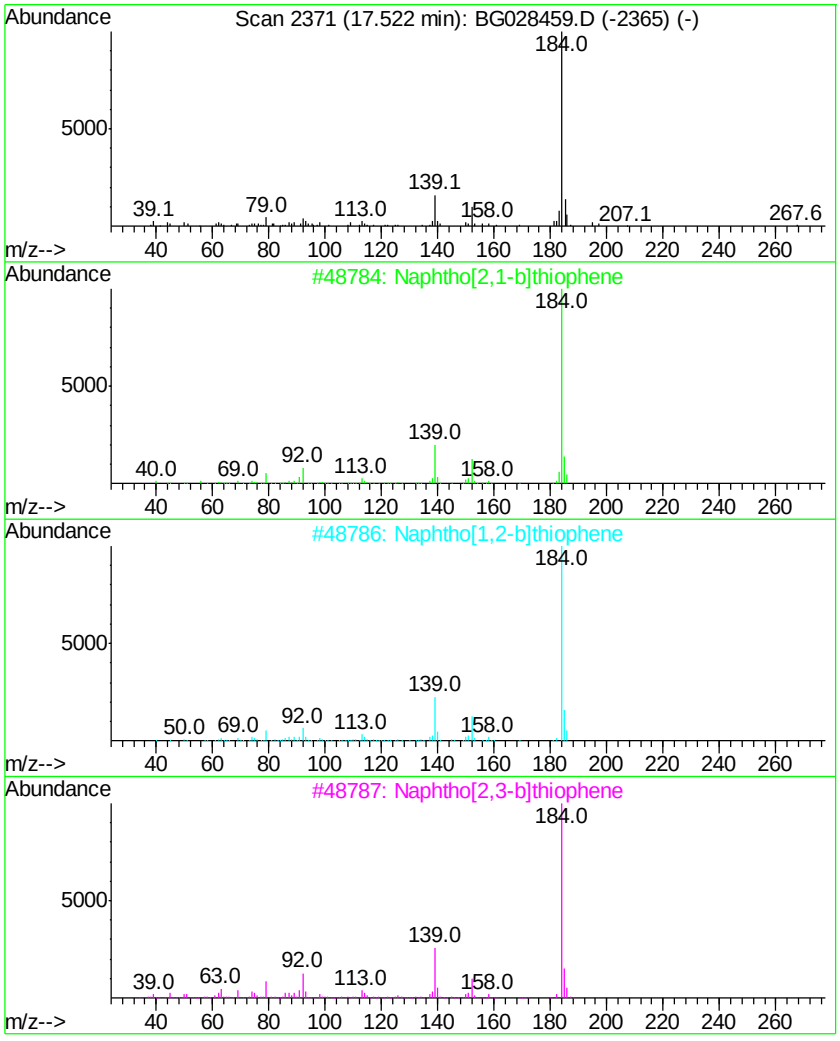
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

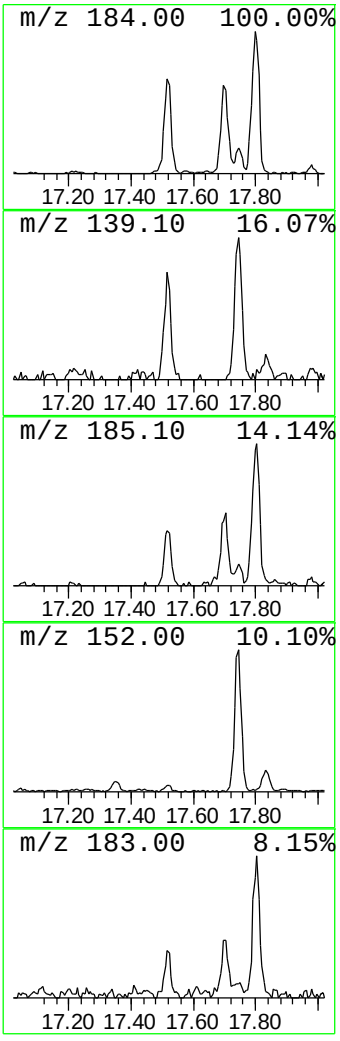
****

Peak Number 8 Naphtho[2,1-b]thiophene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.52	3.35 ng/ul	115995	Phenanthrene-d10	17.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
2	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	93
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
4	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
5	Dibenzothiophene	184	C12H8S	000132-65-0	91





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Acq On : 24 Aug 2017 14:10
Operator : SJ/JU
Sample : I4827-05ME
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : B0AB4ME

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080217.M
Quant Title : SVOA CALIBRATION

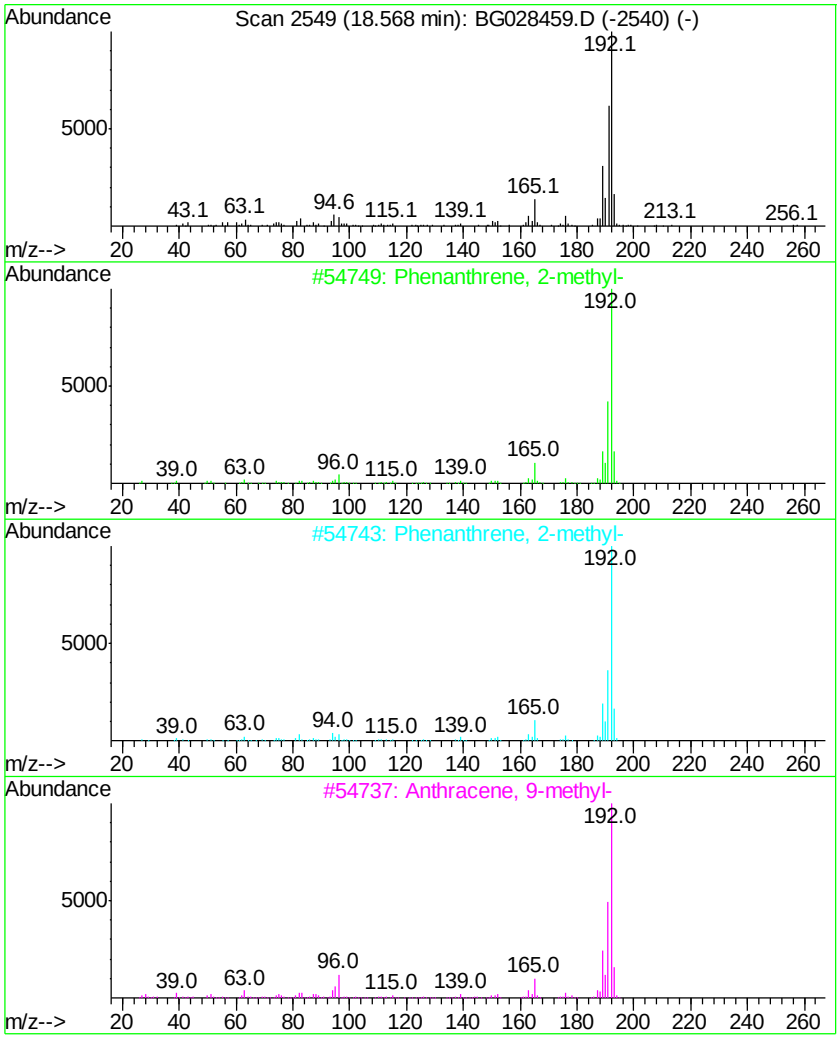
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

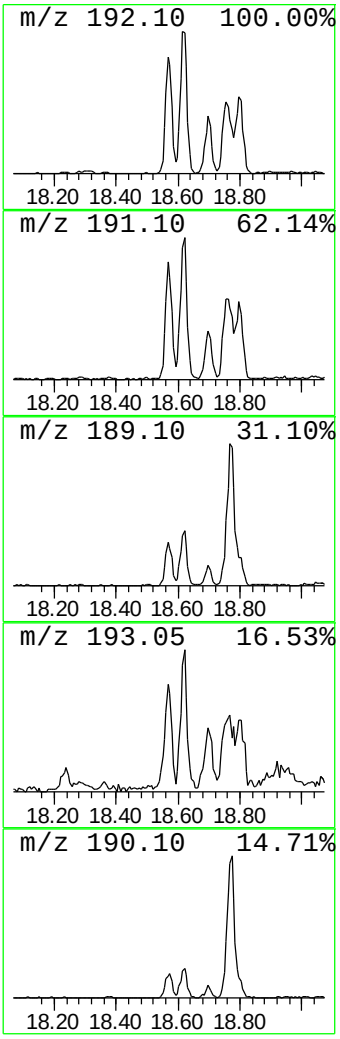
****

Peak Number 9 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.57	9.47 ng/ul	328287	Phenanthrene-d10	17.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	96
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95





Data Path : Z:\HPCHEM1\BNA G\DATA\BG082417\
Data File : BG028459.D
Acq On : 24 Aug 2017 14:10
Operator : SJ/JU
Sample : I4827-05ME
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : B0AB4ME

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080217.M
Quant Title : SVOA CALIBRATION

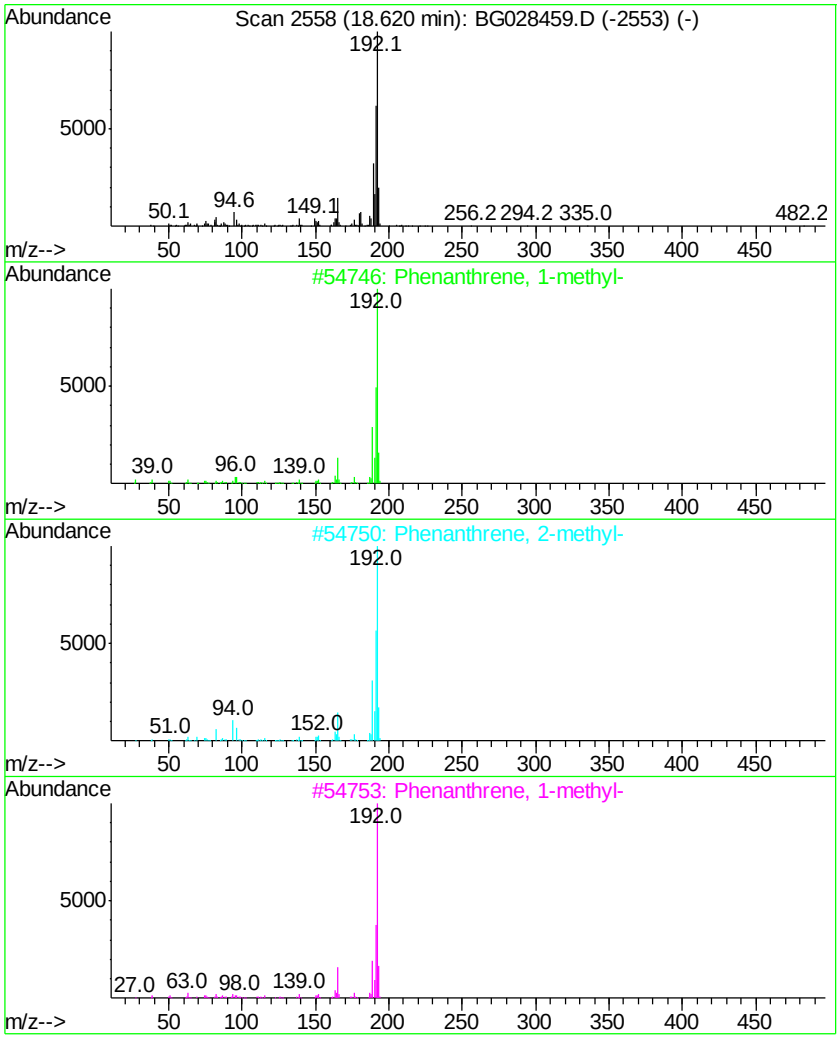
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

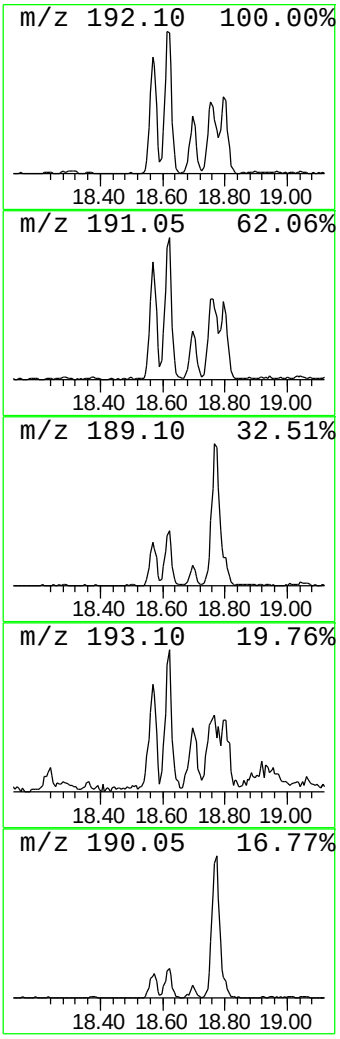
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.62	9.90 ng/ul	343289	Phenanthrene-d10	17.70

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	94
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG082417\
Data File : BG028459.D
Acq On : 24 Aug 2017 14:10
Operator : SJ/JU
Sample : I4827-05ME
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : B0AB4ME

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080217.M
Quant Title : SVOA CALIBRATION

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

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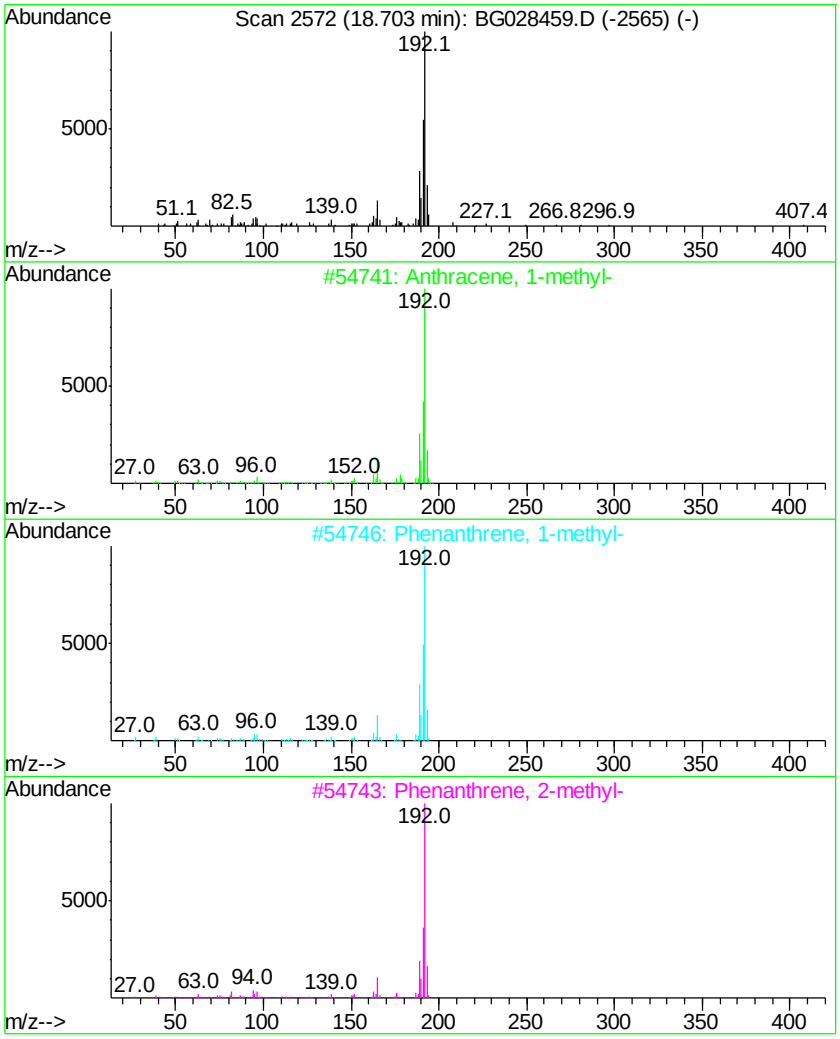
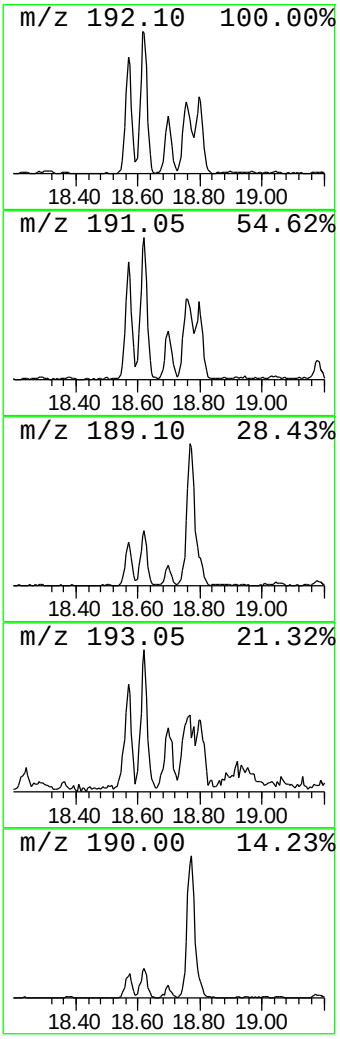
Peak Number 11 Anthracene, 1-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.70	3.25 ng/ul	112675	Phenanthrene-d10	17.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94





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Acq On : 24 Aug 2017 14:10
Operator : SJ/JU
Sample : I4827-05ME
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : B0AB4ME

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080217.M
Quant Title : SVOA CALIBRATION

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

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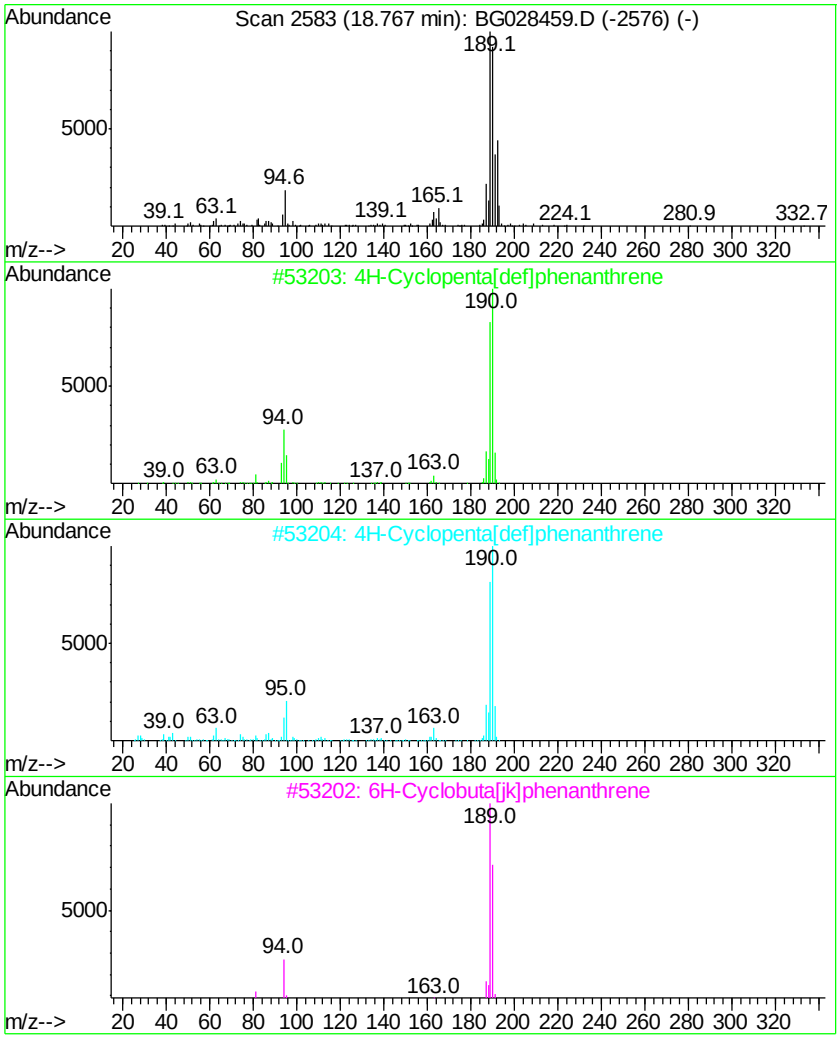
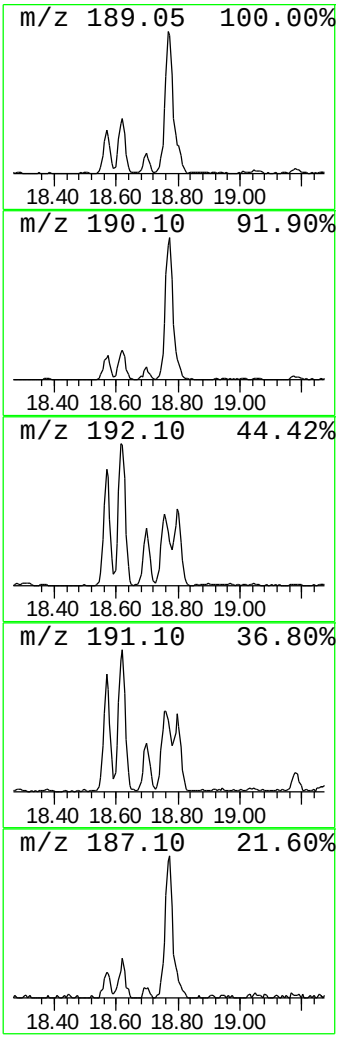
Peak Number 12 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.77	16.56 ng/ul	574095	Phenanthrene-d10	17.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	68
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	62
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	53
4	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	43
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	33





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Sample : I4827-05ME
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : B0AB4ME

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080217.M
Quant Title : SVOA CALIBRATION

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

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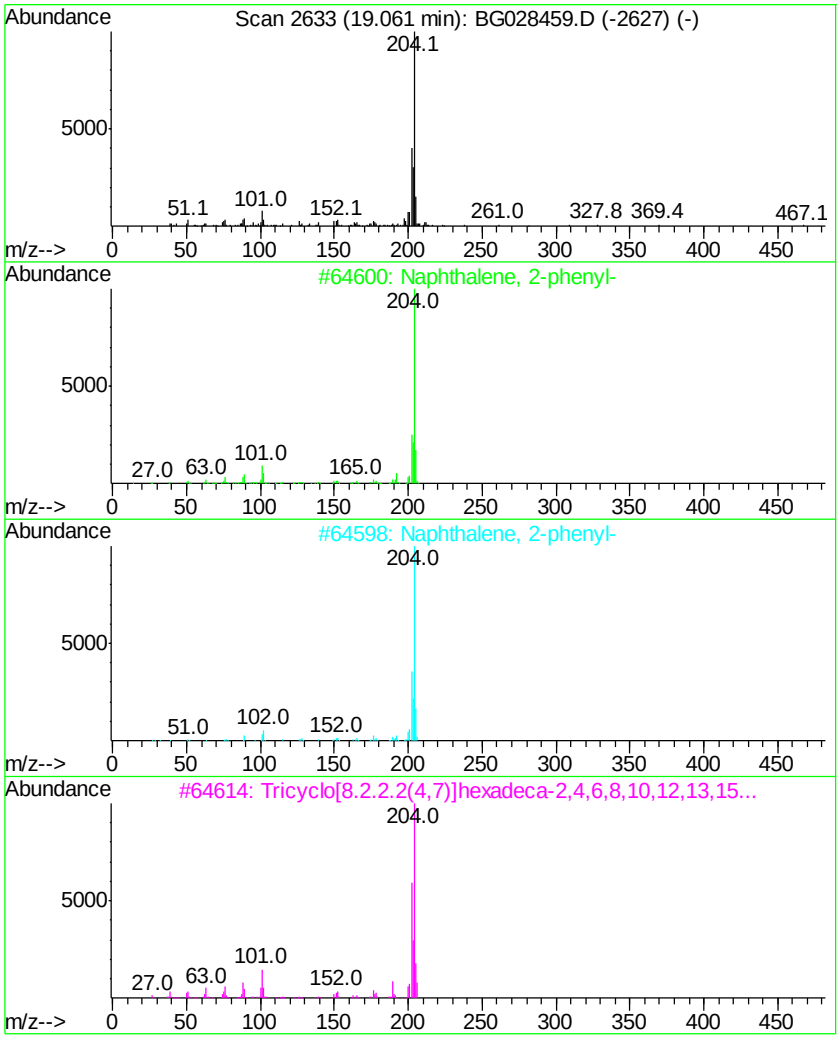
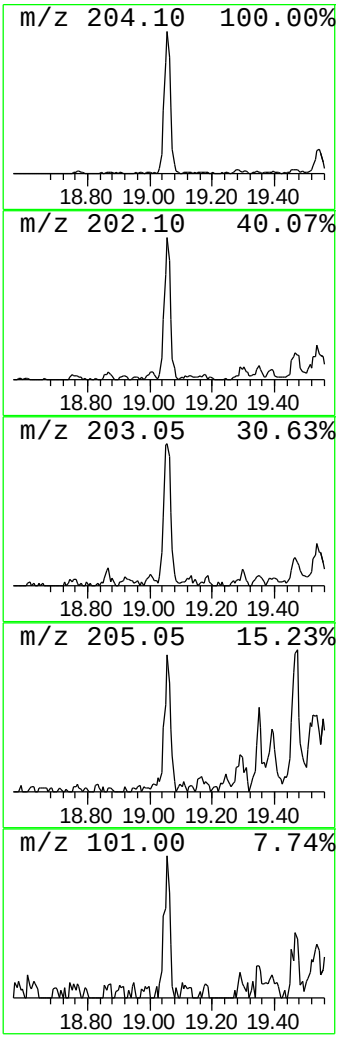
Peak Number 13 Naphthalene, 2-phenyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.06	4.81 ng/ul	166812	Phenanthrene-d10	17.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	83
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	64
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	64
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	58
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	58





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Sample : I4827-05ME
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : B0AB4ME

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Quant Title : SVOA CALIBRATION

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

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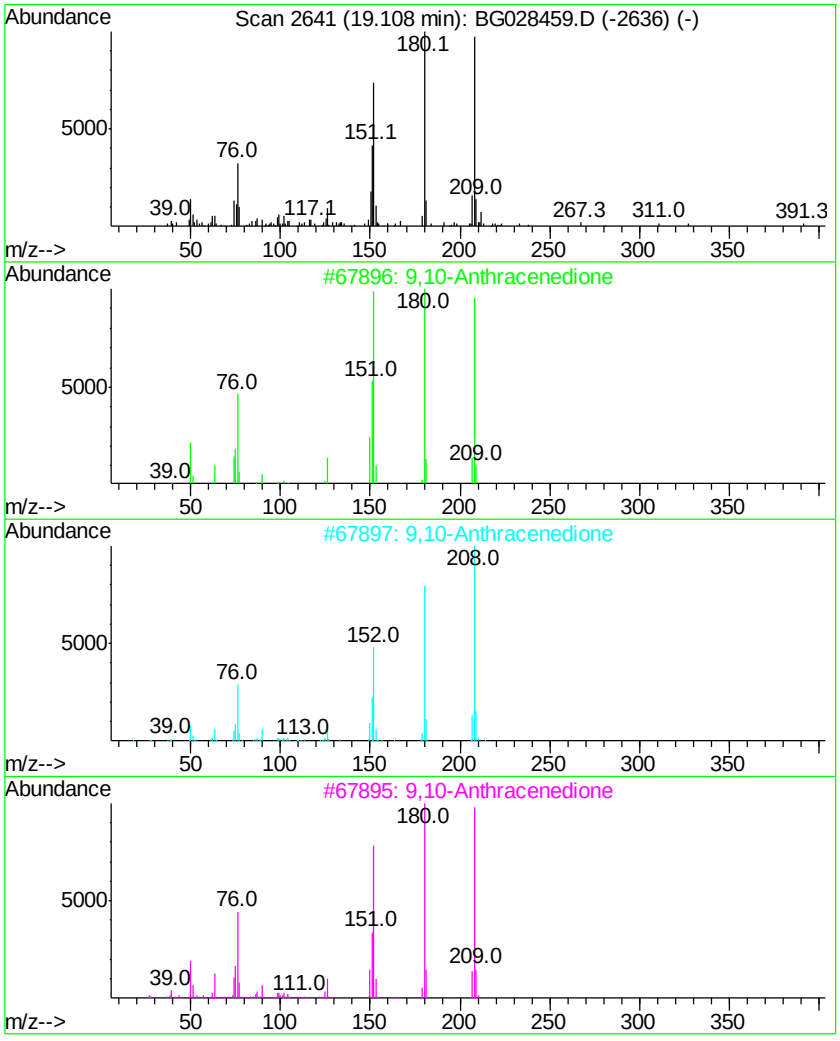
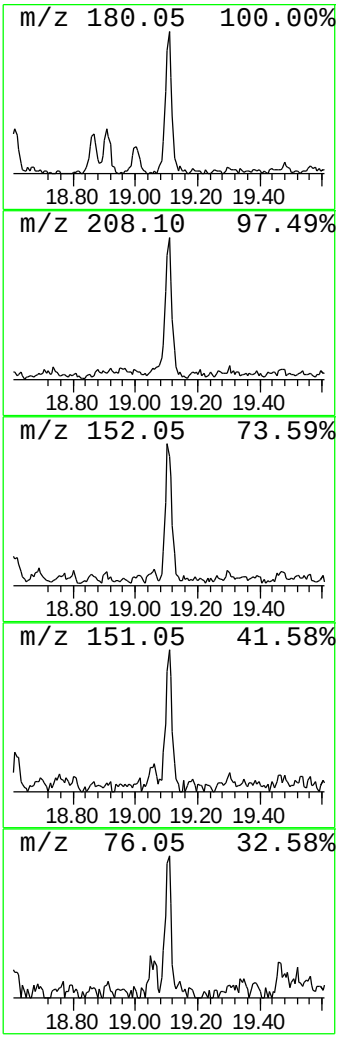
Peak Number 14 9,10-Anthracenedione Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.11	3.82 ng/ul	132423	Phenanthrene-d10	17.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
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	64
5	9H-Fluoren-9-one	180	C13H8O	000486-25-9	64





Data Path : Z:\HPCHEM1\BNA G\DATA\BG082417\
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Sample : I4827-05ME
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : B0AB4ME

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Quant Title : SVOA CALIBRATION

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

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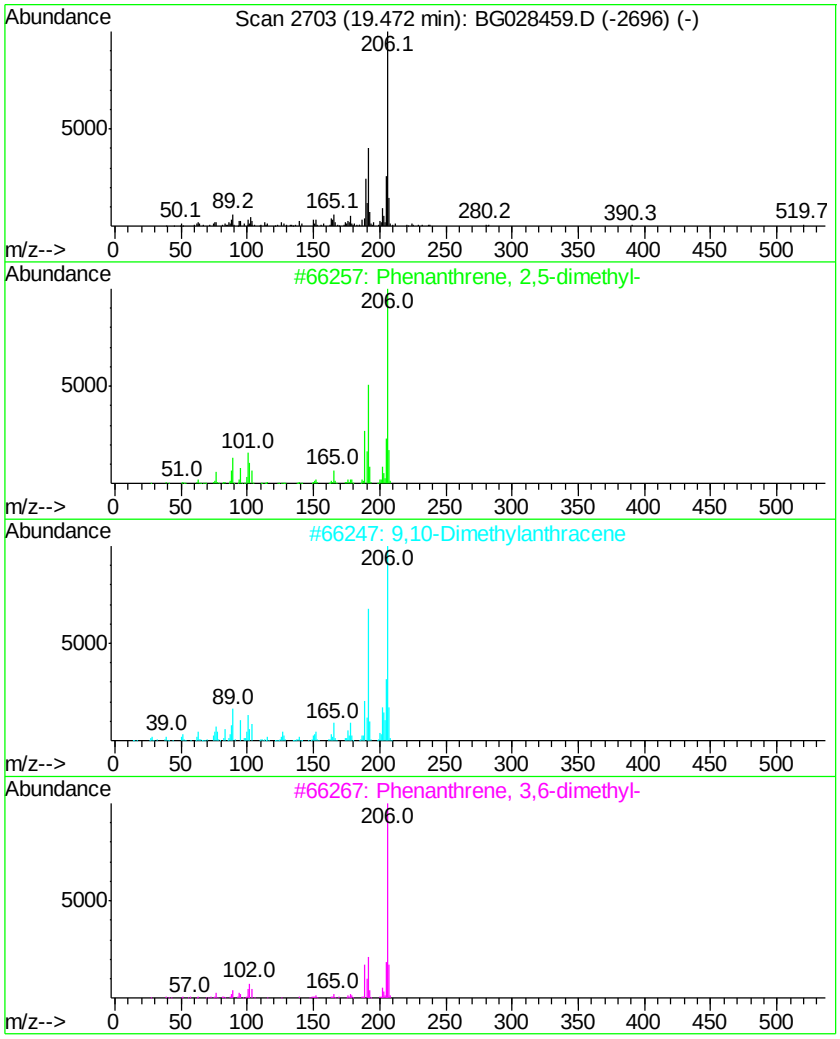
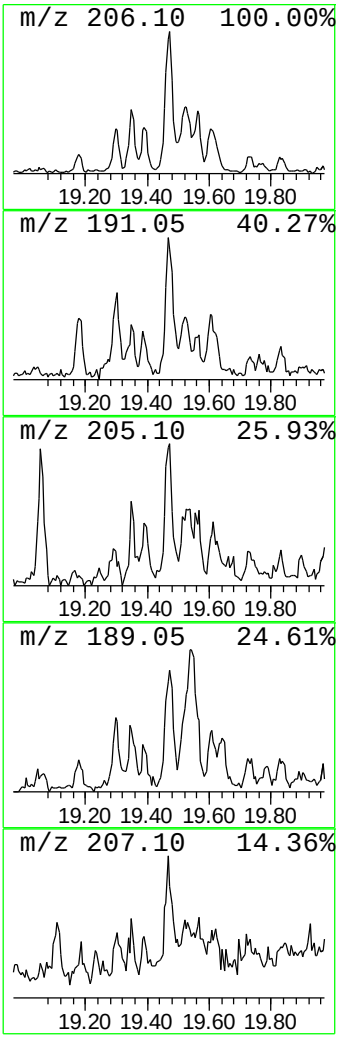
Peak Number 15 Phenanthrene, 2,5-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.47	5.10 ng/ul	176790	Phenanthrene-d10	17.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90





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Operator : SJ/JU
Sample : I4827-05ME
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : B0AB4ME

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080217.M
Quant Title : SVOA CALIBRATION

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

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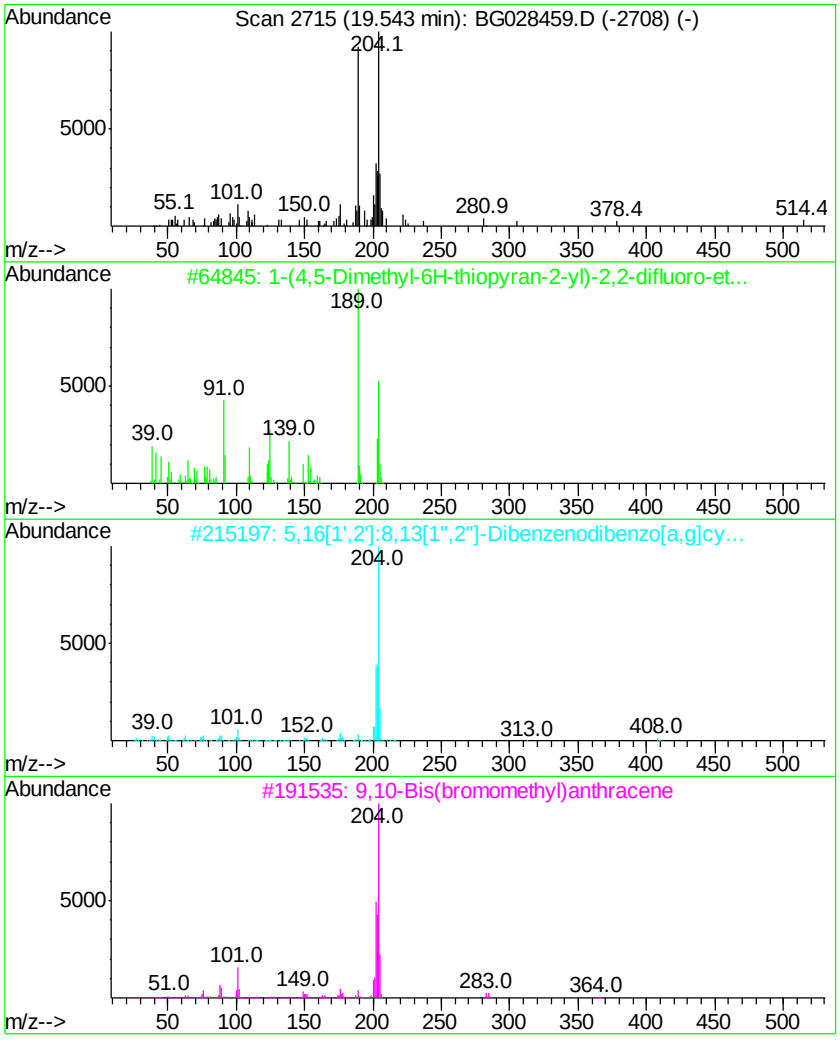
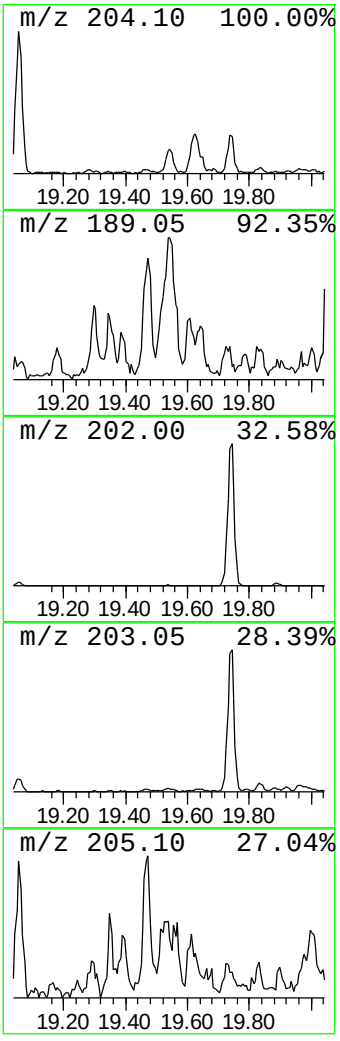
Peak Number 16 unknown-02 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.54	4.26 ng/ul	147782	Phenanthrene-d10	17.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-(4,5-Dimethyl-6H-thiopyran-2-y...	204	C9H10F2OS	1000318-25-0	49
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	38
3	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	38
4	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	38
5	4-Pyridinol 3,5-dichloro-2-ethyl...	205	C8H9Cl2NO	1000253-55-0	35





Data Path : Z:\HPCHEM1\BNA G\DATA\BG082417\
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Sample : I4827-05ME
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : B0AB4ME

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080217.M
Quant Title : SVOA CALIBRATION

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

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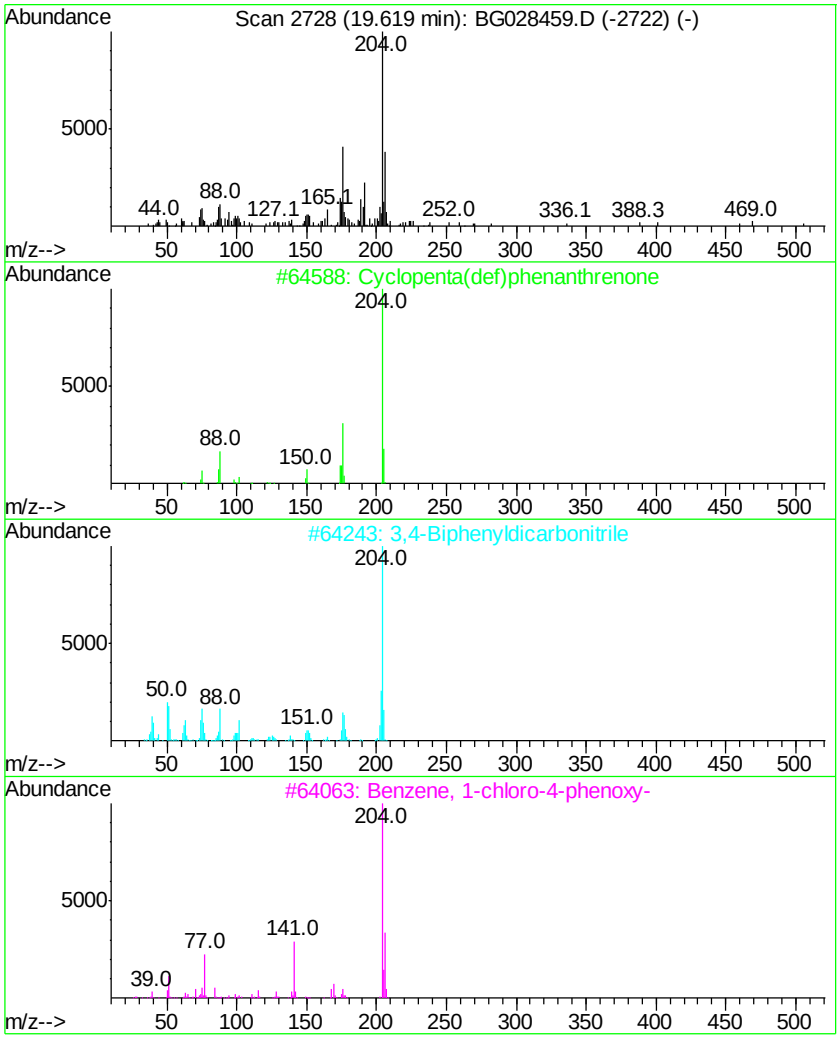
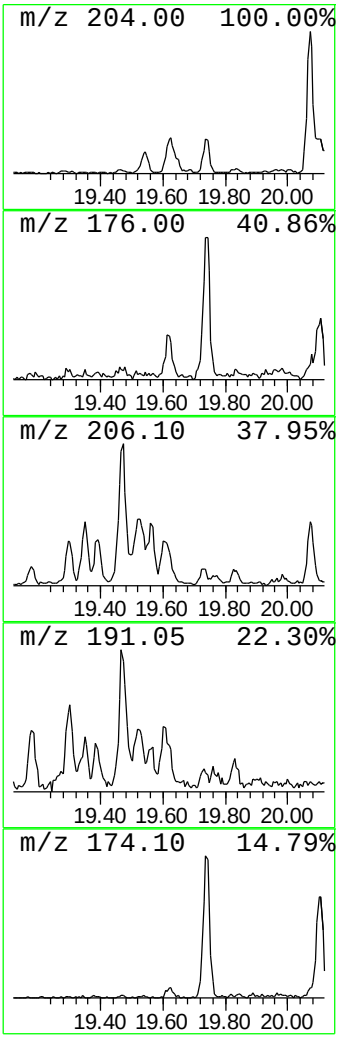
Peak Number 17 unknown-03 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.62	3.54 ng/ul	122805	Phenanthrene-d10	17.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	49
2	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	49
3	Benzene, 1-chloro-4-phenoxy-	204	C12H9ClO	007005-72-3	47
4	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	47
5	2-Chloro-4-phenylphenol	204	C12H9ClO	000092-04-6	46





Data Path : Z:\HPCHEM1\BNA G\DATA\BG082417\
Data File : BG028459.D
Acq On : 24 Aug 2017 14:10
Operator : SJ/JU
Sample : I4827-05ME
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : B0AB4ME

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080217.M
Quant Title : SVOA CALIBRATION

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

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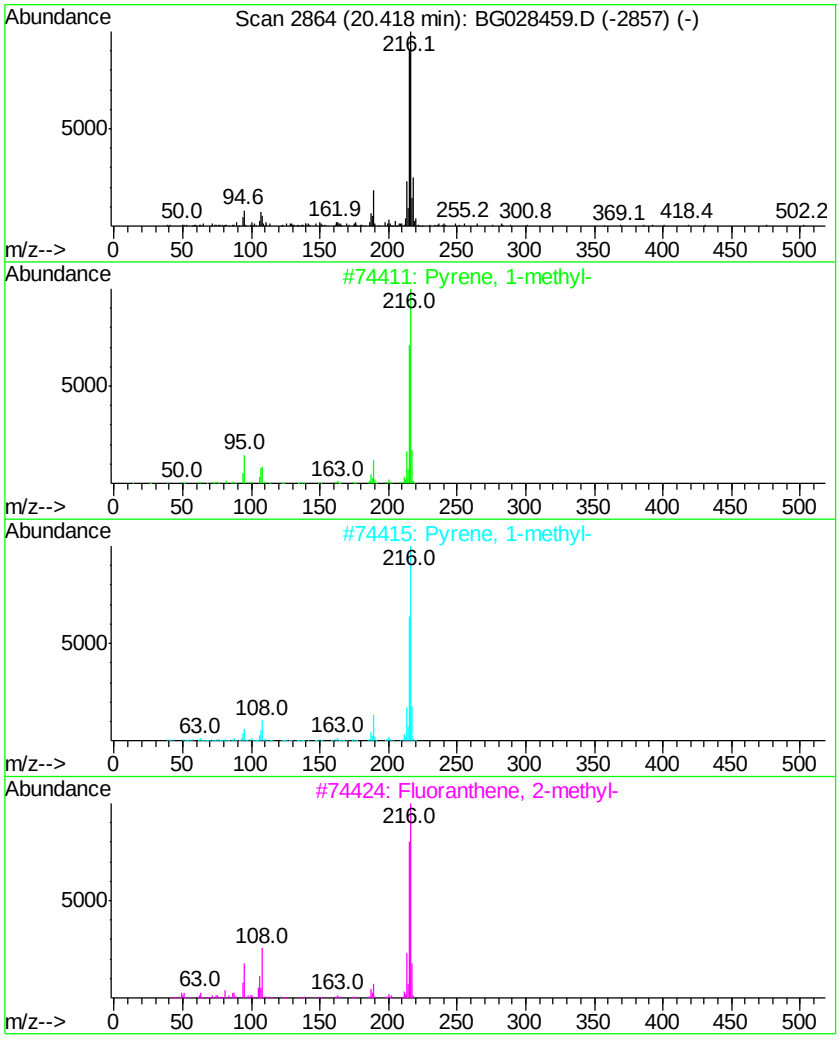
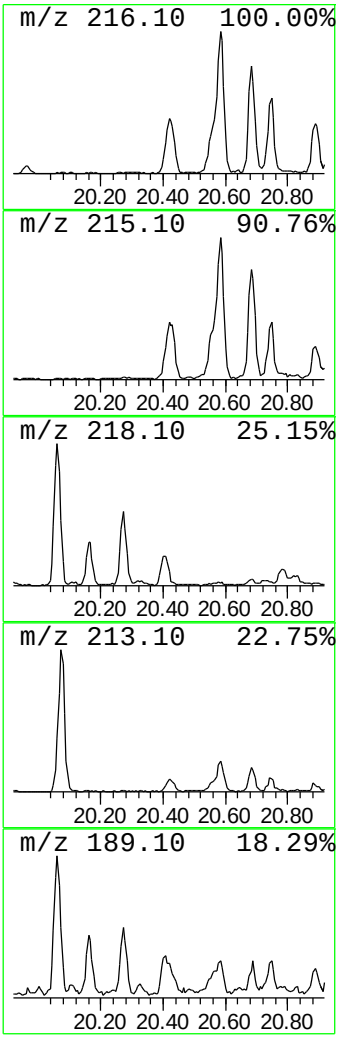
Peak Number 18 Pyrene, 1-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.42	2.32 ng/ul	230103	Chrysene-d12	22.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	89
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	76
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	76
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	74





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Data File : BG028459.D
Acq On : 24 Aug 2017 14:10
Operator : SJ/JU
Sample : I4827-05ME
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : B0AB4ME

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080217.M
Quant Title : SVOA CALIBRATION

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

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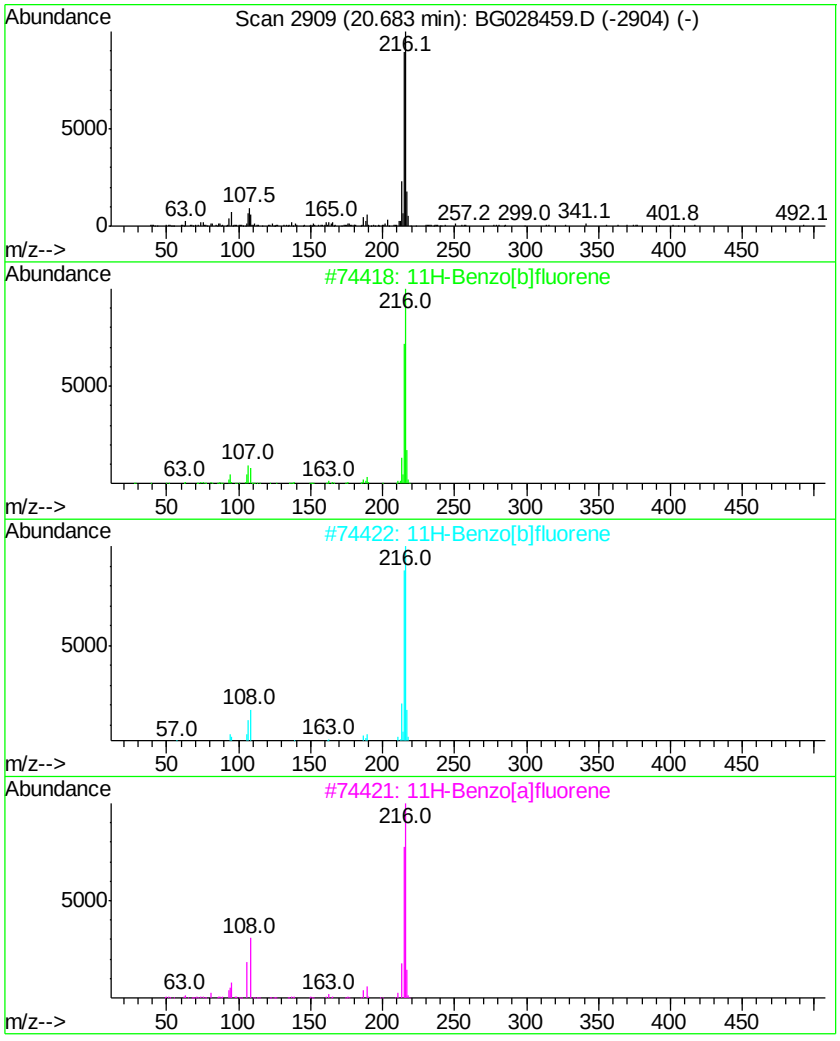
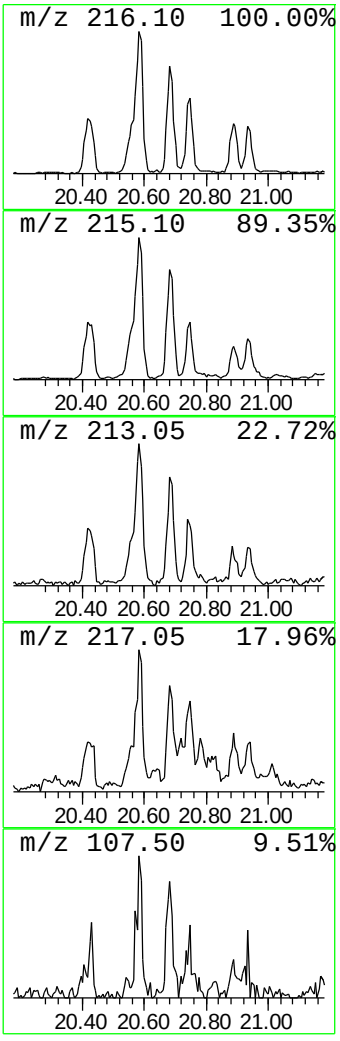
Peak Number 20 11H-Benzo[b]fluorene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.68	2.41 ng/ul	239307	Chrysene-d12	22.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	86
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	72





Data Path : Z:\HPCHEM1\BNA G\DATA\BG082417\
Data File : BG028459.D
Acq On : 24 Aug 2017 14:10
Operator : SJ/JU
Sample : I4827-05ME
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : B0AB4ME

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080217.M
Quant Title : SVOA CALIBRATION

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

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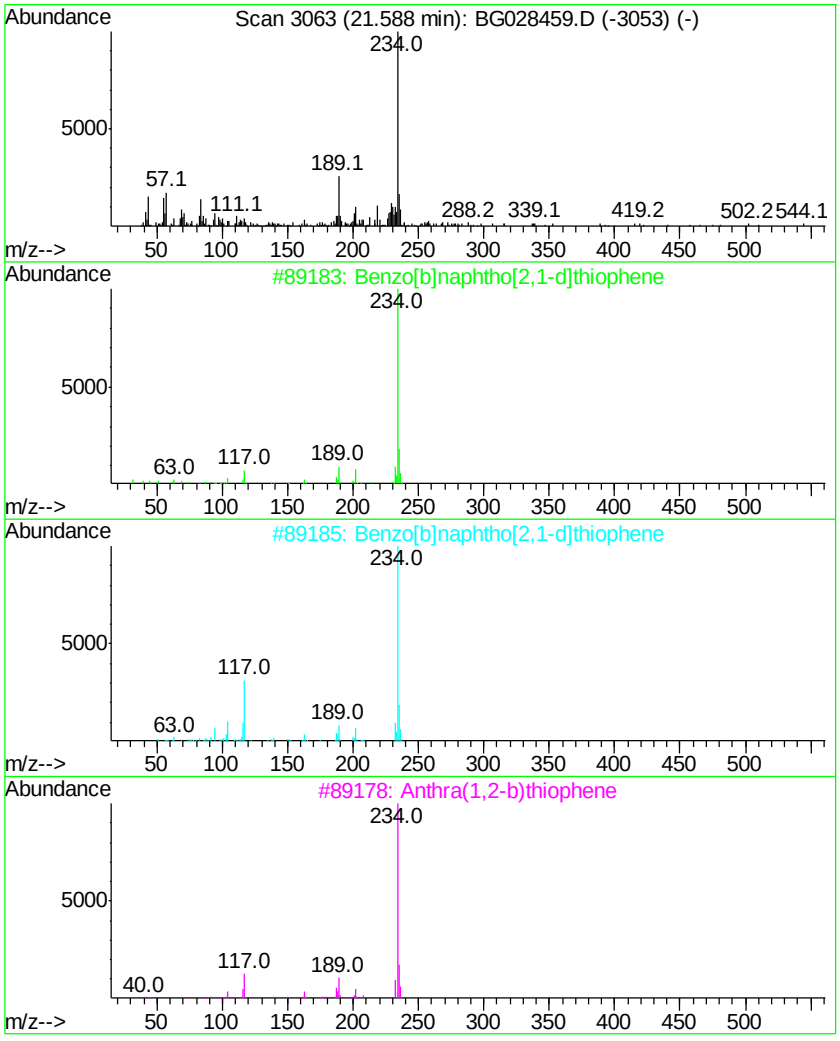
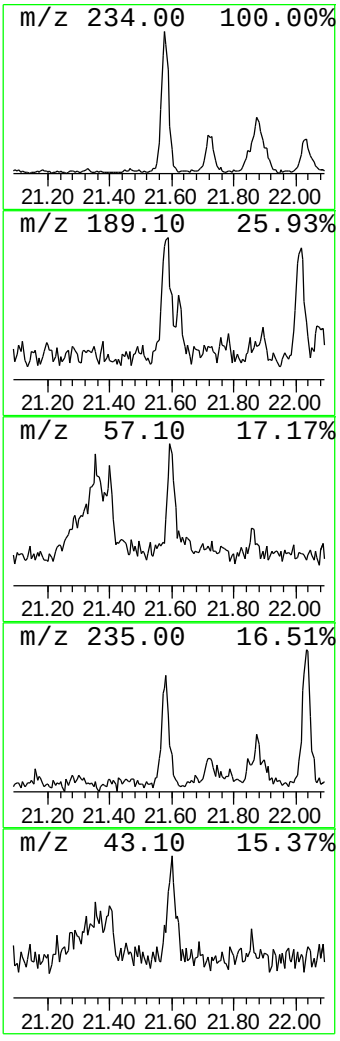
Peak Number 21 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.59	2.74 ng/ul	272244	Chrysene-d12	22.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	94
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	86
3	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	76
4	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	70
5	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	70





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG082417\
Data File : BG028459.D
Acq On : 24 Aug 2017 14:10
Operator : SJ/JU
Sample : I4827-05ME
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : B0AB4ME

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080217.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
Benzocycloheptatr...	13.01	3.6	ng/ul	61903	2	11.16	346214	20.0
Naphthalene, 1,5-...	14.27	2.4	ng/ul	64705	3	14.95	545304	20.0
Dibenzofuran, 4-m...	16.28	2.5	ng/ul	68859	3	14.95	545304	20.0
(DEL) Alkane: Str...	16.61	2.2	ng/ul	74989	4	17.70	693416	20.0
9H-Fluorene, 1-me...	17.00	3.0	ng/ul	102451	4	17.70	693416	20.0
unknown-01	17.41	2.2	ng/ul	76657	4	17.70	693416	20.0
Naphtho[2,1-b]thi...	17.52	3.4	ng/ul	115995	4	17.70	693416	20.0
Phenanthrene, 2-m...	18.57	9.5	ng/ul	328287	4	17.70	693416	20.0
Phenanthrene, 1-m...	18.62	9.9	ng/ul	343289	4	17.70	693416	20.0
Anthracene, 1-met...	18.70	3.3	ng/ul	112675	4	17.70	693416	20.0
4H-Cyclopenta[def...	18.77	16.6	ng/ul	574095	4	17.70	693416	20.0
Naphthalene, 2-ph...	19.06	4.8	ng/ul	166812	4	17.70	693416	20.0
9,10-Anthracenedione	19.11	3.8	ng/ul	132423	4	17.70	693416	20.0
Phenanthrene, 2,5...	19.47	5.1	ng/ul	176790	4	17.70	693416	20.0
unknown-02	19.54	4.3	ng/ul	147782	4	17.70	693416	20.0
unknown-03	19.62	3.5	ng/ul	122805	4	17.70	693416	20.0
Pyrene, 1-methyl-	20.42	2.3	ng/ul	230103	5	22.03	1987130	20.0
11H-Benzo[b]fluorene	20.68	2.4	ng/ul	239307	5	22.03	1987130	20.0
Benzo[b]naphtho[2...	21.59	2.7	ng/ul	272244	5	22.03	1987130	20.0