LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122015\
Data File : BG020375.D
Acq On : 21 Dec 2015 12:14
Operator : UM/SJ
Sample : G4848-05
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N51

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-BG121415.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	8.479	951	960	967	rBV	1436942	2734120	3.06%	0.186%
2	8.661	977	991	997	rVV	3998560	9222512	10.32%	0.626%
3	10.323	1257	1274	1286	rBV4	987723	4049394	4.53%	0.275%
4	10.559	1308	1314	1350	rVB	689839	2386762	2.67%	0.162%
5	11.146	1375	1414	1418	rBV4	9043138	89366122	100.00%	6.069%
6	11.246	1427	1431	1440	rVB	4696913	6461110	7.23%	0.439%
7	12.715	1652	1681	1686	rVV5	8931374	68765688	76.95%	4.670%
8	12.768	1686	1690	1696	rVV	1925365	2904556	3.25%	0.197%
9	12.926	1696	1717	1720	rVV	8761192	41358572	46.28%	2.809%
10	13.637	1821	1838	1842	rBV	8693973	29034589	32.49%	1.972%
11	13.814	1859	1868	1876	rVV	5655658	15193790	17.00%	1.032%
12	13.984	1876	1897	1901	rVV	7743597	28873195	32.31%	1.961%
13	14.131	1907	1922	1926	rVV2	7643380	27856946	31.17%	1.892%
14	14.184	1926	1931	1936	rVV2	8417006	15895004	17.79%	1.079%
15	14.342	1948	1958	1961	rVV	4750155	10564430	11.82%	0.717%
16	14.372	1961	1963	1968	rVV	2724037	2867204	3.21%	0.195%
17	14.501	1979	1985	1996	rVB	5726947	10687335	11.96%	0.726%
18	14.865	2024	2047	2051	rBV	10389251	42803821	47.90%	2.907%
19	15.112	2082	2089	2098	rBV	4108190	8271939	9.26%	0.562%
20	15.282	2098	2118	2121	rBV4	8986485	48959119	54.78%	3.325%
21	15.318	2122	2124	2127	rVB	10932834	10140296	11.35%	0.689%
22	15.412	2133	2140	2144	rBV	3289504	5679870	6.36%	0.386%
23	15.459	2144	2148	2157	rVB2	3349332	5121690	5.73%	0.348%
24	15.564	2157	2166	2169	rBV3	2143656	5170250	5.79%	0.351%
25	15.594	2169	2171	2178	rVB3	1802551	2588714	2.90%	0.176%
26	15.935	2186	2229	2233	rBV5	8918711	73054118	81.75%	4.961%
27	15.999	2238	2240	2243	rBV2	3350344	3999828	4.48%	0.272%
28	16.070	2243	2252	2255	rVB5	6184683	17637618	19.74%	1.198%
29	16.146	2260	2265	2267	rBV2	5842039	9892422	11.07%	0.672%
30	16.175	2267	2270	2276	rVB2	7965341	13537260	15.15%	0.919%
31	16.328	2282	2296	2297	rBV4	7470757	24220070	27.10%	1.645%
32	16.393	2303	2307	2312	rBV	3442421	4672598	5.23%	0.317%
33	16.463	2312	2319	2322	rBV2	1518524	3150535	3.53%	0.214%
34	16.628	2340	2347	2351	rVB	5845963	9885075	11.06%	0.671%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122015\
Data File : BG020375.D
Acq On : 21 Dec 2015 12:14
Operator : UM/SJ
Sample : G4848-05
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N51

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-BG121415.M
Title : SVOA CALIBRATION

35	16.716	2353	2362	2368	rVB6	922722	2727220	3.05%	0.185%
36	16.787	2368	2374	2376	rBV2	2965878	5615489	6.28%	0.381%
37	16.851	2377	2385	2389	rVB	7541338	17856604	19.98%	1.213%
38	16.904	2389	2394	2397	rBV2	4407331	6506696	7.28%	0.442%
39	16.998	2406	2410	2413	rVB	3721090	4861589	5.44%	0.330%
40	17.033	2413	2416	2418	rBV	2575239	3343909	3.74%	0.227%
41	17.063	2418	2421	2424	rVV2	1509006	2304759	2.58%	0.157%
42	17.104	2424	2428	2431	rVB	2062087	2990003	3.35%	0.203%
43	17.174	2437	2440	2450	rVB3	1401642	3005147	3.36%	0.204%
44	17.280	2450	2458	2465	rBV	5631727	14665515	16.41%	0.996%
45	17.392	2465	2477	2499	rVB2	8587308	34404524	38.50%	2.336%
46	17.668	2500	2524	2527	rBV5	9844257	63657284	71.23%	4.323%
47	18.026	2573	2585	2590	rBV2	7609408	23054691	25.80%	1.566%
48	18.091	2590	2596	2600	rVV	4073637	6353353	7.11%	0.431%
49	18.167	2605	2609	2617	rVB4	2338423	4508640	5.05%	0.306%
50	18.285	2624	2629	2638	rVB	2214751	4402893	4.93%	0.299%
51	18.455	2647	2658	2664	rBV2	7976649	31004986	34.69%	2.106%
52	18.643	2677	2690	2691	rBV3	5628310	15455921	17.30%	1.050%
53	18.731	2692	2705	2709	rVB5	10049611	46989507	52.58%	3.191%
54	18.784	2709	2714	2718	rVB	1479388	2288804	2.56%	0.155%
55	18.943	2724	2741	2745	rBV2	8305738	23537972	26.34%	1.598%
56	19.037	2753	2757	2760	rBV	2082373	2794497	3.13%	0.190%
57	19.148	2772	2776	2780	rVB	3832153	5545834	6.21%	0.377%
58	19.201	2780	2785	2788	rBV	2969089	4163530	4.66%	0.283%
59	19.237	2788	2791	2795	rVB	2317786	2857694	3.20%	0.194%
60	19.319	2799	2805	2811	rBV2	4414564	10466267	11.71%	0.711%
61	19.395	2814	2818	2824	rVB4	2465053	5521956	6.18%	0.375%
62	19.630	2844	2858	2861	rBV7	8762908	33590318	37.59%	2.281%
63	19.777	2881	2883	2887	rVB3	9257293	7074943	7.92%	0.480%
64	19.895	2897	2903	2908	rBV	4369100	6854069	7.67%	0.465%
65	20.036	2909	2927	2942	rVV7	9840919	84724838	94.81%	5.754%
66	20.141	2943	2945	2946	rVV2	9286012	6862978	7.68%	0.466%
67	20.194	2949	2954	2958	rVB	5736480	9887978	11.06%	0.671%
68	20.318	2964	2975	2980	rBV3	6203213	17471161	19.55%	1.186%
69	20.365	2980	2983	2987	rVB	3260966	4219630	4.72%	0.287%
70	20.506	2987	3007	3011	rVB3	7809435	30133053	33.72%	2.046%
71	20.617	3011	3026	3028	rBV	8061496	29885163	33.44%	2.030%

LSC Area Percent Report

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Data File : BG020375.D
Acq On : 21 Dec 2015 12:14
Operator : UM/SJ
Sample : G4848-05
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N51

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-BG121415.M
Title : SVOA CALIBRATION

72	20.670	3031	3035	3039	rVB2	4554508	8290195	9.28%	0.563%
73	20.776	3048	3053	3056	rBV3	4338209	6223719	6.96%	0.423%
74	20.823	3056	3061	3067	rVB3	4674193	7801862	8.73%	0.530%
75	20.882	3067	3071	3077	rVB2	1312669	2579911	2.89%	0.175%
76	20.964	3081	3085	3089	rBV2	2304390	3505101	3.92%	0.238%
77	21.040	3093	3098	3101	rBV3	1580097	2691945	3.01%	0.183%
78	21.081	3101	3105	3113	rVB3	3471202	6817495	7.63%	0.463%
79	21.164	3113	3119	3125	rBV2	2771293	6536925	7.31%	0.444%
80	21.217	3125	3128	3134	rVB4	1214534	2310051	2.58%	0.157%
81	21.434	3152	3165	3167	rBV2	5401079	16053156	17.96%	1.090%
82	21.516	3173	3179	3183	rBV2	4380593	7892525	8.83%	0.536%
83	21.687	3205	3208	3217	rVB	1537978	3116048	3.49%	0.212%
84	21.886	3219	3242	3245	rBV3	7911029	45482032	50.89%	3.089%
85	22.098	3269	3278	3282	rVV	4613012	11528455	12.90%	0.783%
86	22.133	3282	3284	3291	rVV4	1094645	2504540	2.80%	0.170%
87	22.274	3300	3308	3313	rBV	3807104	7203344	8.06%	0.489%
88	22.586	3350	3361	3367	rVV2	2856612	9462468	10.59%	0.643%
89	22.656	3368	3373	3380	rVV	1655784	3387379	3.79%	0.230%
90	22.738	3381	3387	3392	rVV2	991859	2342279	2.62%	0.159%
91	22.815	3393	3400	3404	rVV2	1446078	3647561	4.08%	0.248%
92	22.879	3405	3411	3415	rVV4	1934742	4987745	5.58%	0.339%
93	22.926	3415	3419	3425	rVV2	2123834	4218686	4.72%	0.286%
94	22.991	3425	3430	3443	rVB2	1728754	3432243	3.84%	0.233%
95	23.285	3472	3480	3485	rBV3	803796	2355291	2.64%	0.160%
96	24.172	3604	3631	3637	rBV2	4133736	26279777	29.41%	1.785%
97	24.389	3658	3668	3674	rVB	1319879	3368297	3.77%	0.229%
98	24.889	3736	3753	3762	rVB	2255620	9155276	10.24%	0.622%
99	25.071	3764	3784	3797	rVB2	3206747	16288561	18.23%	1.106%
100	25.259	3805	3816	3825	rVB2	1340474	4478772	5.01%	0.304%

Sum of corrected areas: 1472537606

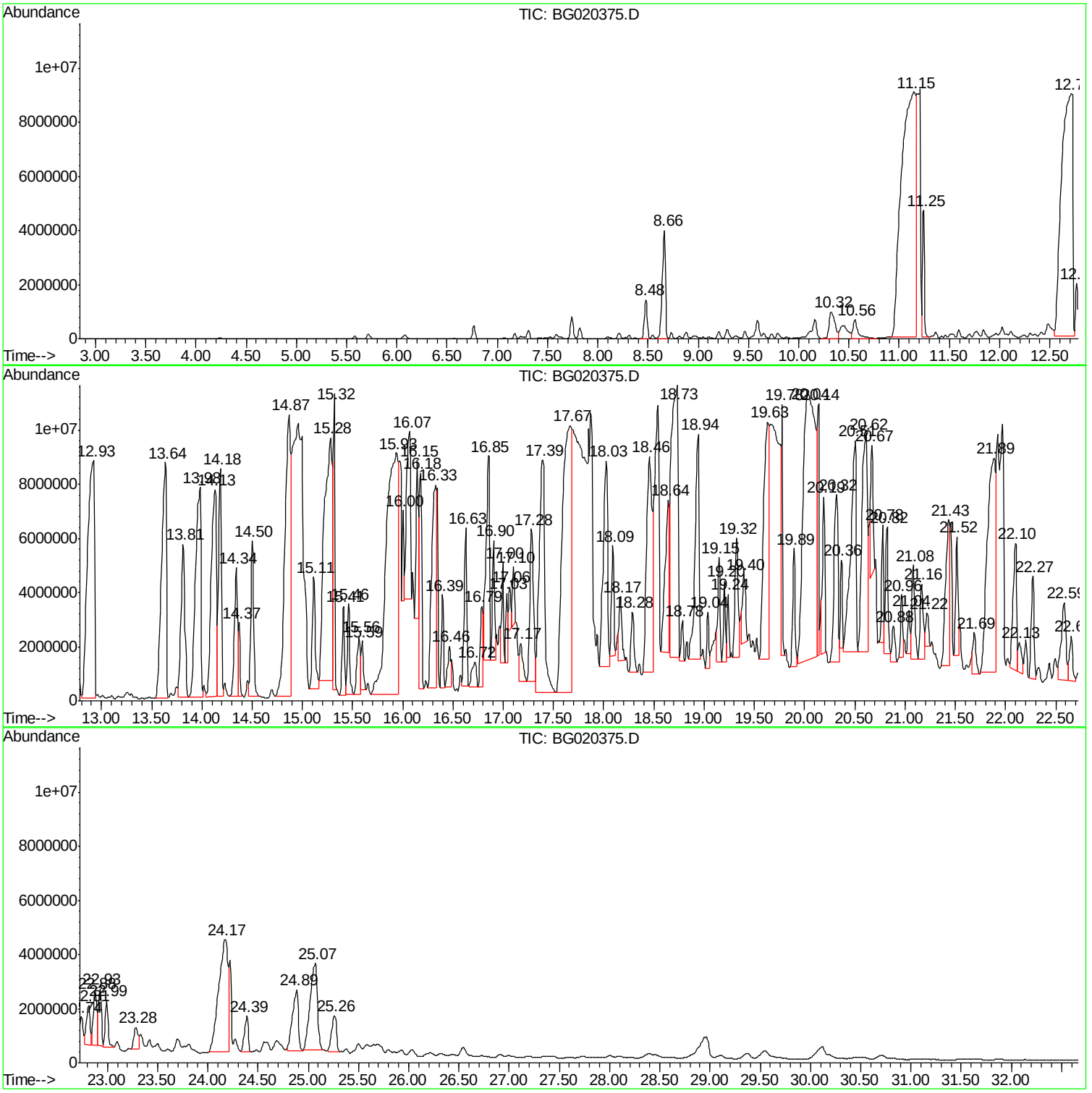
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122015\
Data File : BG020375.D
Acq On : 21 Dec 2015 12:14
Operator : UM/SJ
Sample : G4848-05
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N51

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

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



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122015\
Data File : BG020375.D
Acq On : 21 Dec 2015 12:14
Operator : UM/SJ
Sample : G4848-05
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N51

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

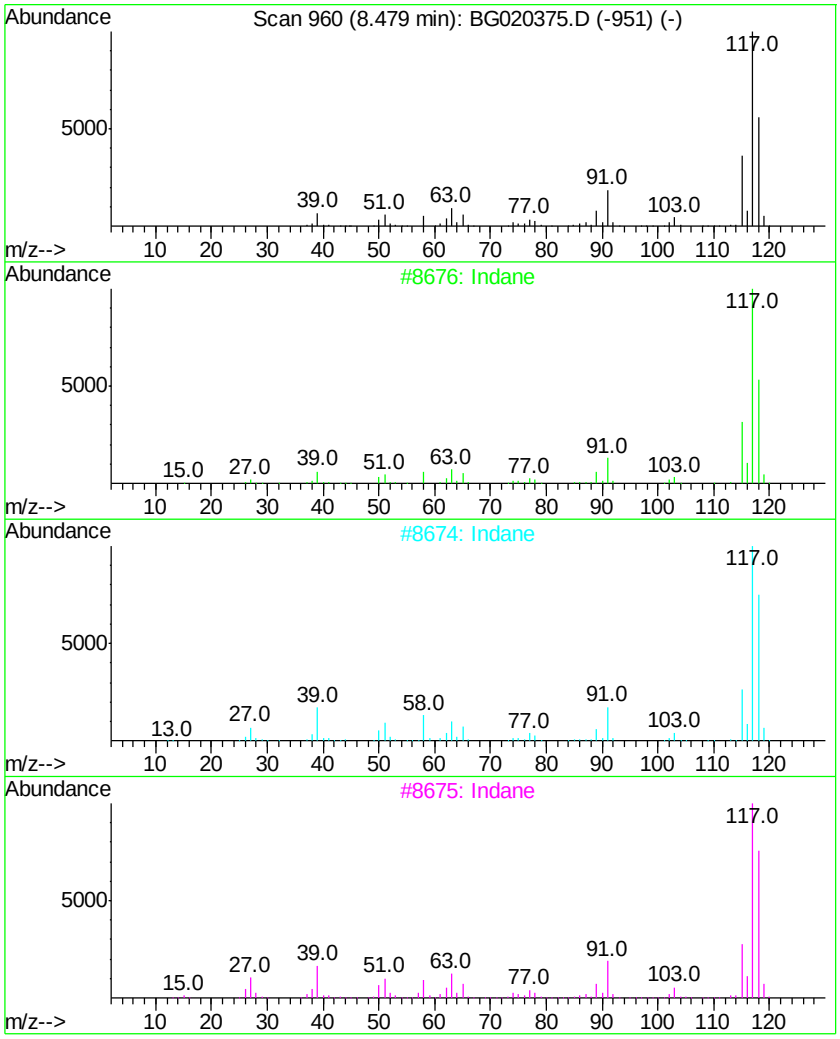
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

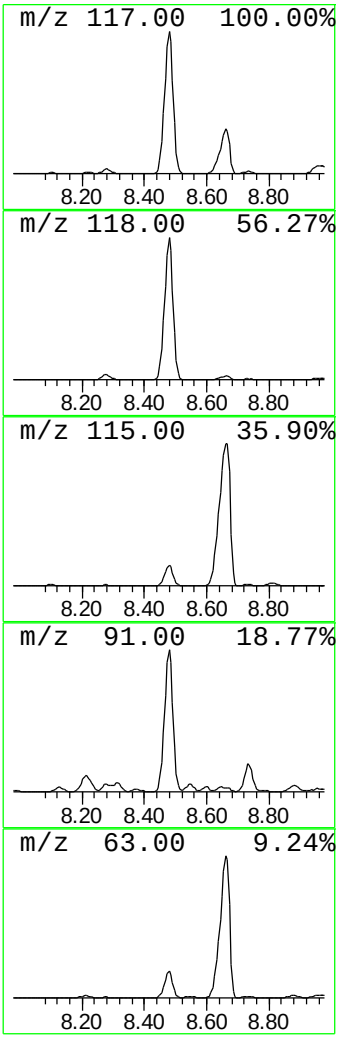
****

Peak Number 1 Indane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.48	20.00 ng/ul	2734120	1,4-Dichlorobenzene-d4	8.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	94
2	Indane	118	C9H10	000496-11-7	93
3	Indane	118	C9H10	000496-11-7	90
4	Indane	118	C9H10	000496-11-7	81
5	Tetracyclo[3.3.1.0(2,8).0(4,6)]-...	118	C9H10	1000191-13-7	80





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122015\
Data File : BG020375.D
Acq On : 21 Dec 2015 12:14
Operator : UM/SJ
Sample : G4848-05
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N51

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

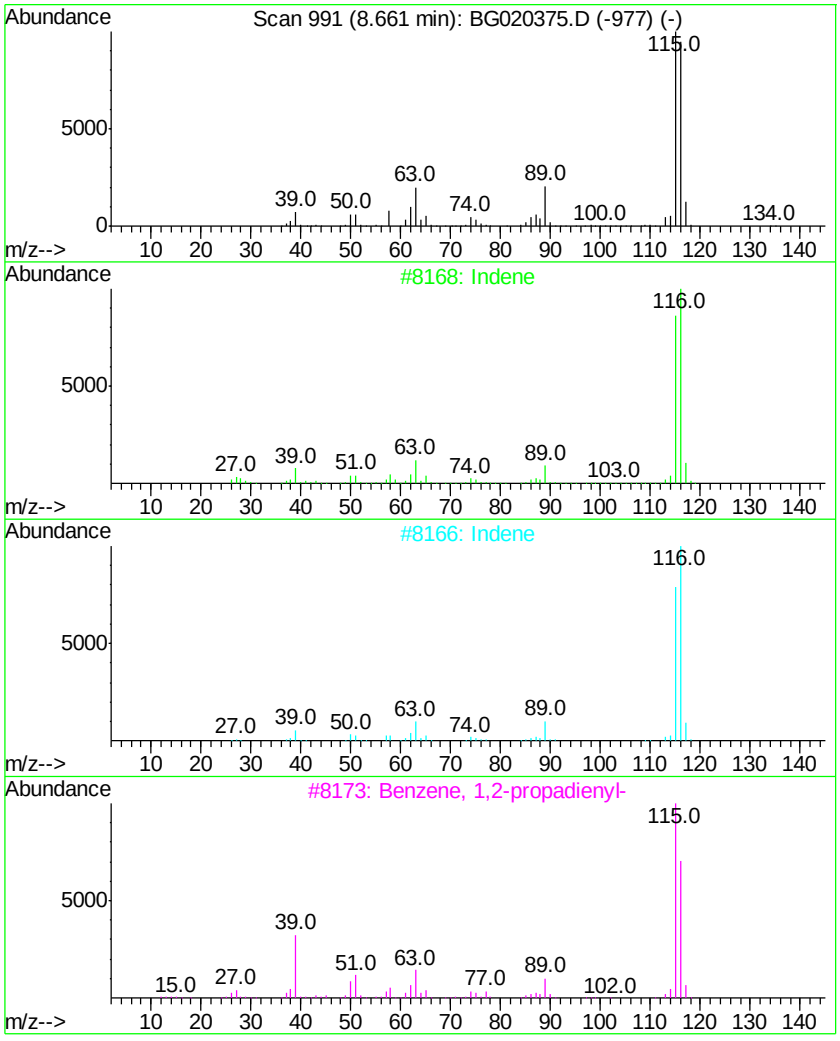
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

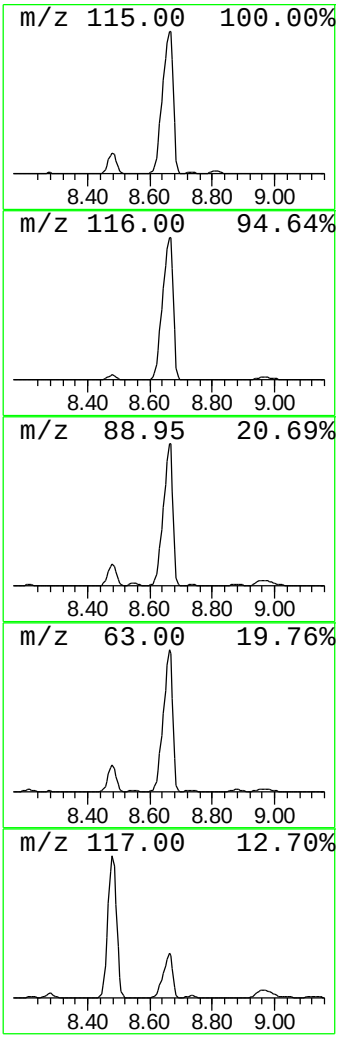
****

Peak Number 2 Indene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.66	67.46 ng/ul	9222510	1,4-Dichlorobenzene-d4	8.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indene	116	C9H8	000095-13-6	96
2	Indene	116	C9H8	000095-13-6	95
3	Benzene, 1,2-propadienyl-	116	C9H8	002327-99-3	91
4	Indene	116	C9H8	000095-13-6	91
5	Benzene, 1-propynyl-	116	C9H8	000673-32-5	90





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122015\
Data File : BG020375.D
Acq On : 21 Dec 2015 12:14
Operator : UM/SJ
Sample : G4848-05
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N51

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

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

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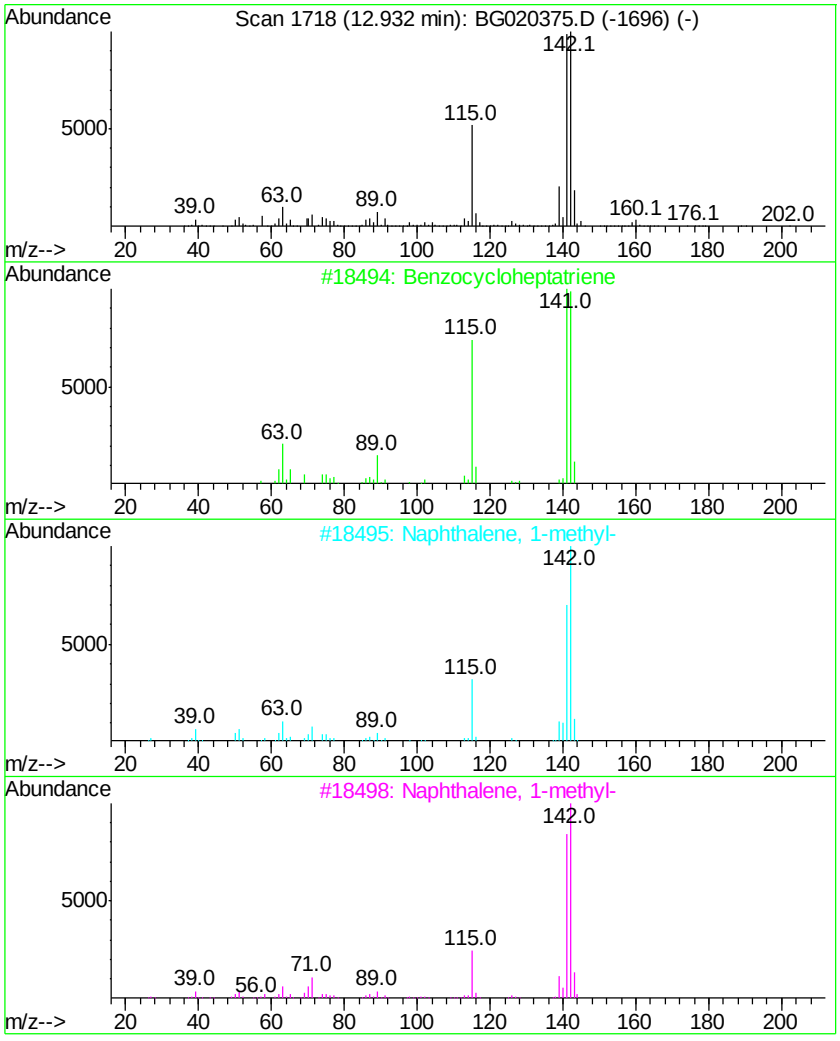
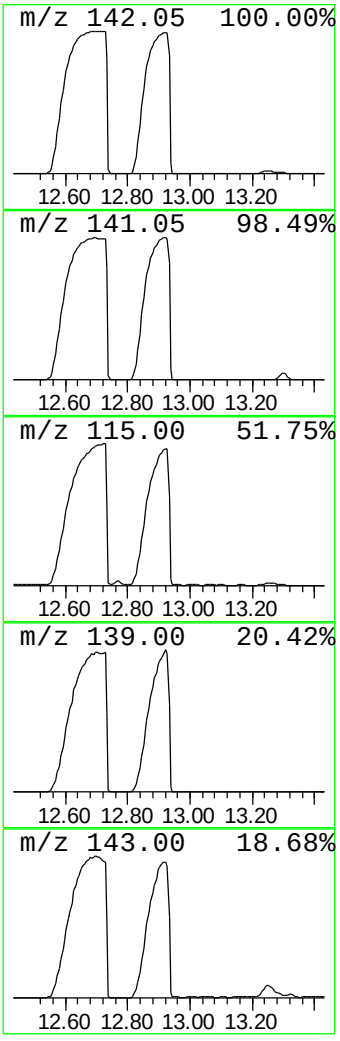
Peak Number 3 Benzocycloheptatriene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.93	9.26 ng/ul	41358600	Naphthalene-d8	11.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzocycloheptatriene	142	C11H10	000264-09-5	95
2	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	93
3	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	93
4	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	90
5	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	90





Data Path : Z:\HPCHEM1\BNA G\DATA\BG122015\
Data File : BG020375.D
Acq On : 21 Dec 2015 12:14
Operator : UM/SJ
Sample : G4848-05
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N51

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

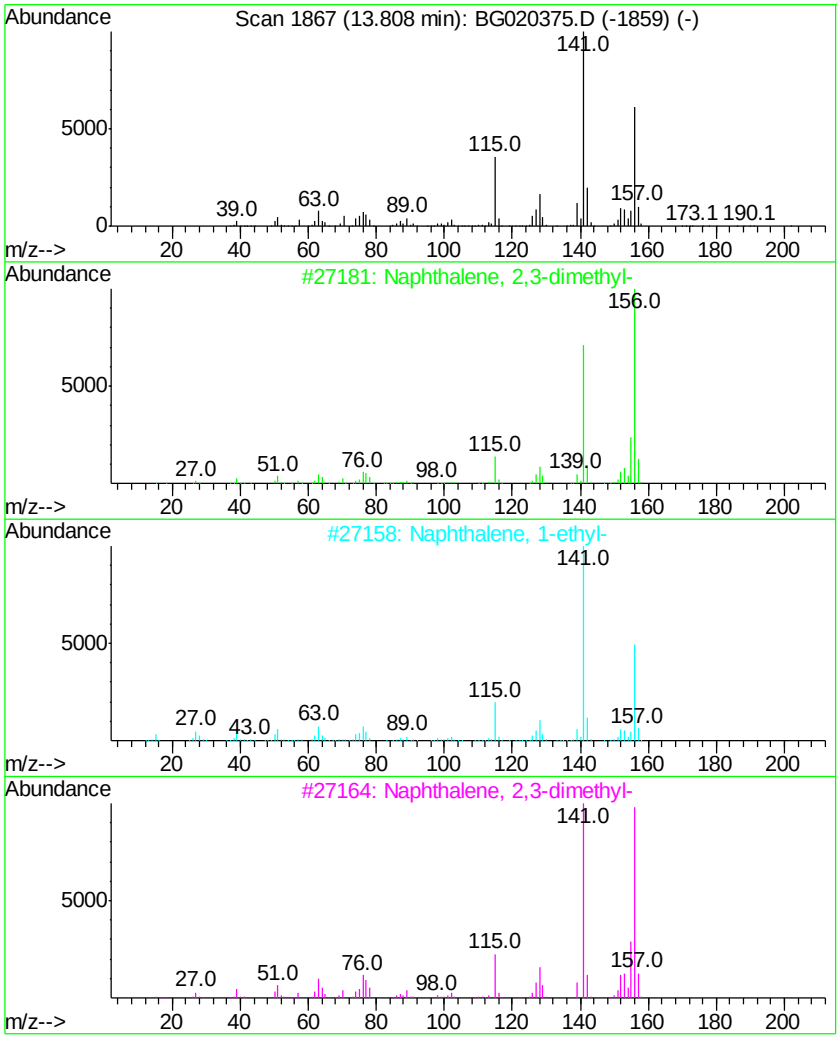
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

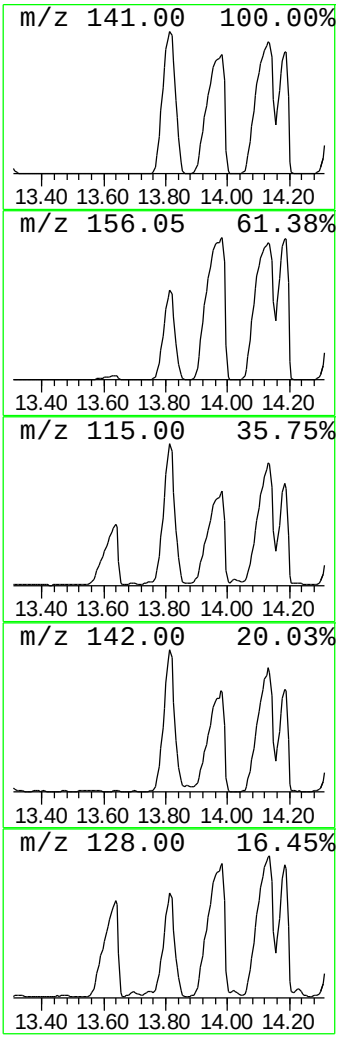
****

Peak Number 4 Naphthalene, 2,3-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.81	7.10 ng/ul	15193800	Acenaphthene-d10	14.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	90
2	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	90
3	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	87
4	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	83
5	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	83





Data Path : Z:\HPCHEM1\BNA G\DATA\BG122015\
Data File : BG020375.D
Acq On : 21 Dec 2015 12:14
Operator : UM/SJ
Sample : G4848-05
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N51

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

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

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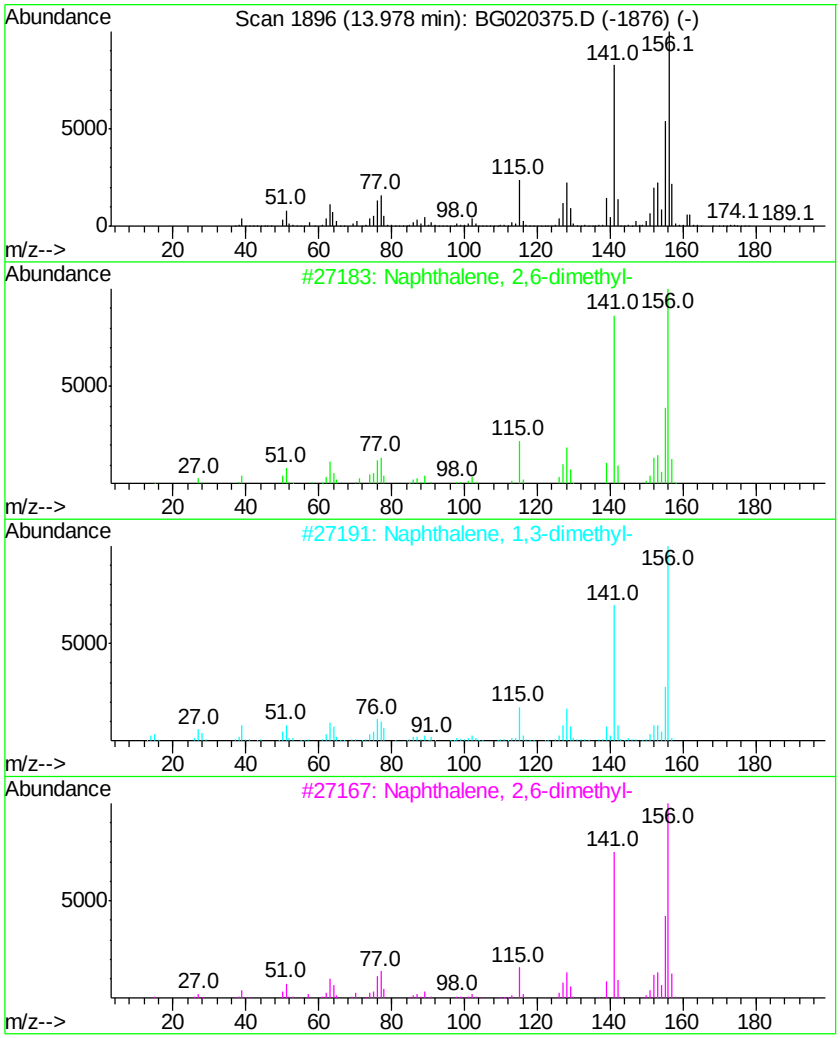
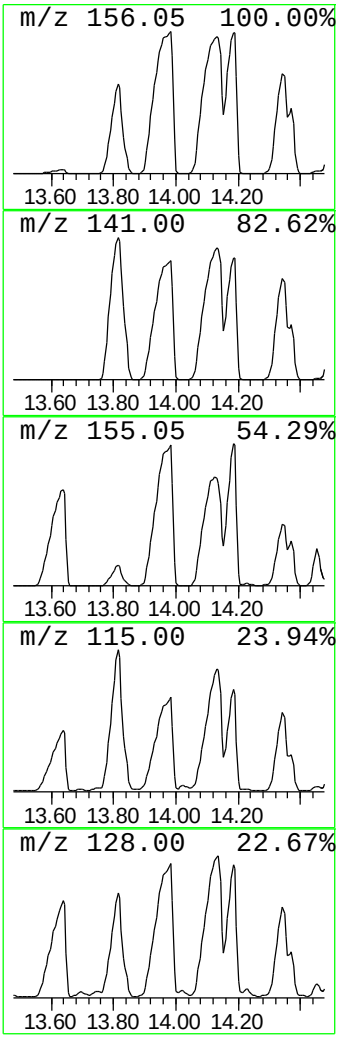
Peak Number 5 Naphthalene, 2,6-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.98	13.49 ng/ul	28873200	Acenaphthene-d10	14.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	98
2	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	94
3	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	94
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	94
5	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	93





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Acq On : 21 Dec 2015 12:14
Operator : UM/SJ
Sample : G4848-05
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N51

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Quant Title : SVOA CALIBRATION

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

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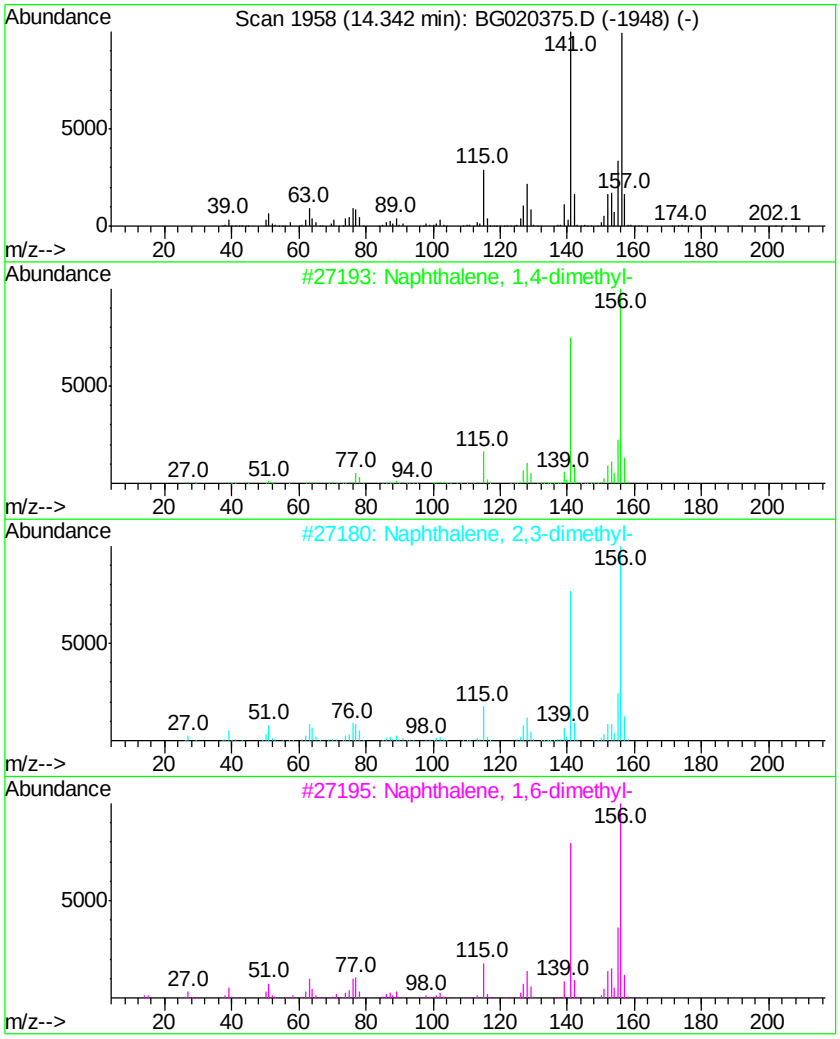
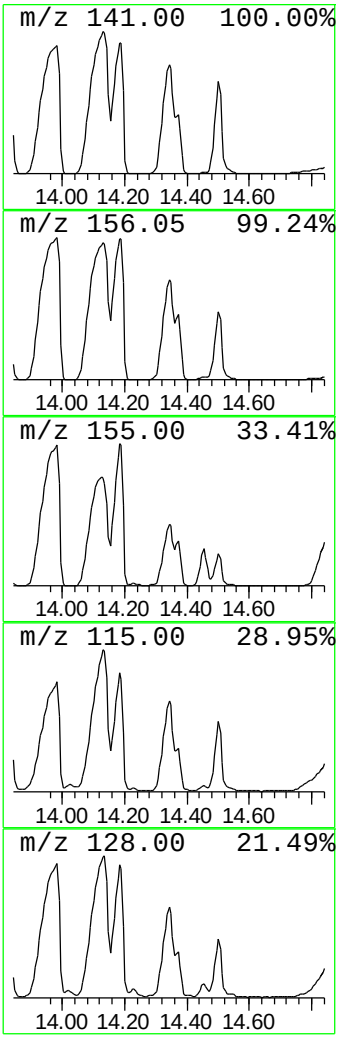
Peak Number 6 Naphthalene, 1,4-dimethyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.34	4.94 ng/ul	10564400	Acenaphthene-d10	14.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
2	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
5	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	95





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Misc :
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Instrument : BNA_G
ClientSampleId : D9N51

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Quant Title : SVOA CALIBRATION

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

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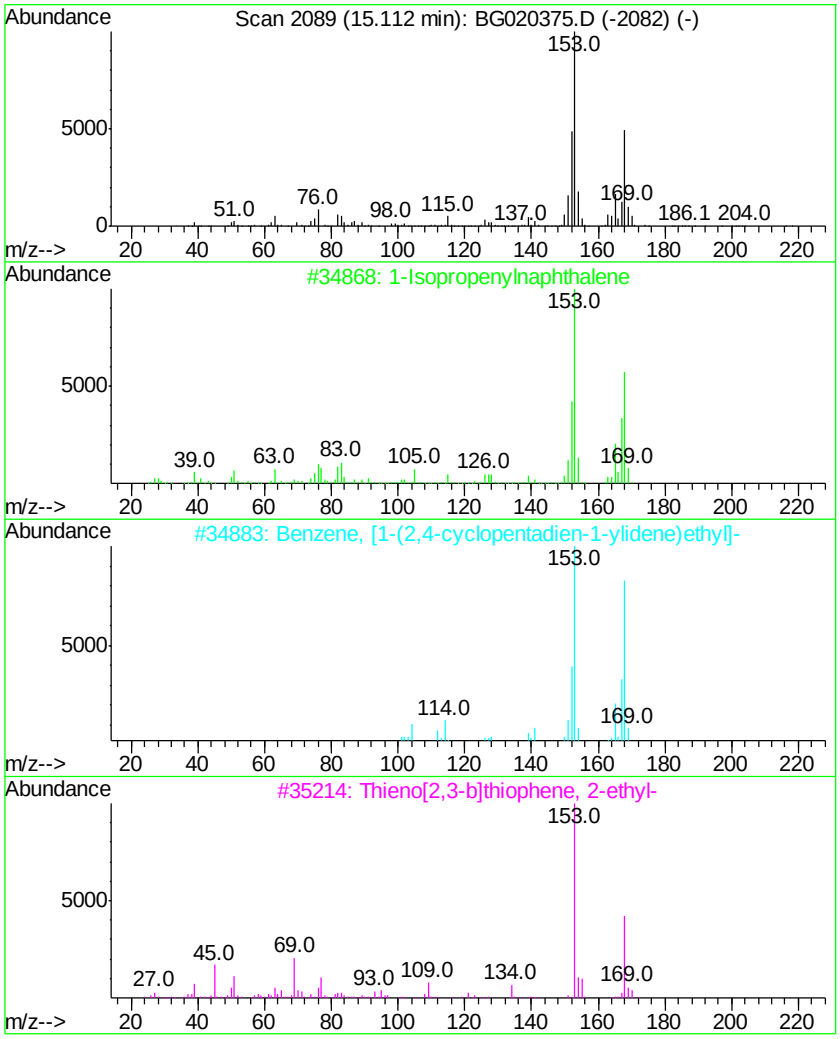
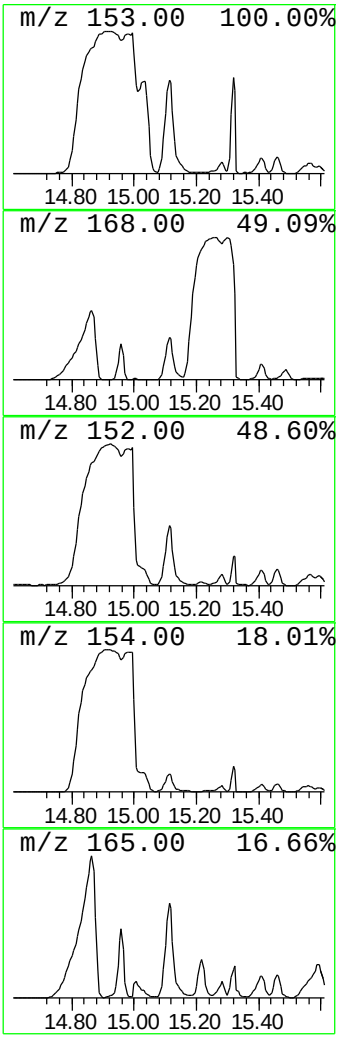
Peak Number 7 1-Isopropenylnaphthalene Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.11	3.87 ng/ul	8271940	Acenaphthene-d10	14.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	83
2	Benzene, [1-(2,4-cyclopentadien-...	168	C13H12	002320-32-3	56
3	Thieno[2,3-b]thiophene, 2-ethyl-	168	C8H8S2	005912-01-6	50
4	Ethanone, 1-(2,4,6-trihydroxyphe...	168	C8H8O4	000480-66-0	47
5	Ethanone, 1-(2,3,4-trihydroxyphe...	168	C8H8O4	000528-21-2	47





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Sample : G4848-05
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ALS Vial : 40 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N51

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Quant Title : SVOA CALIBRATION

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

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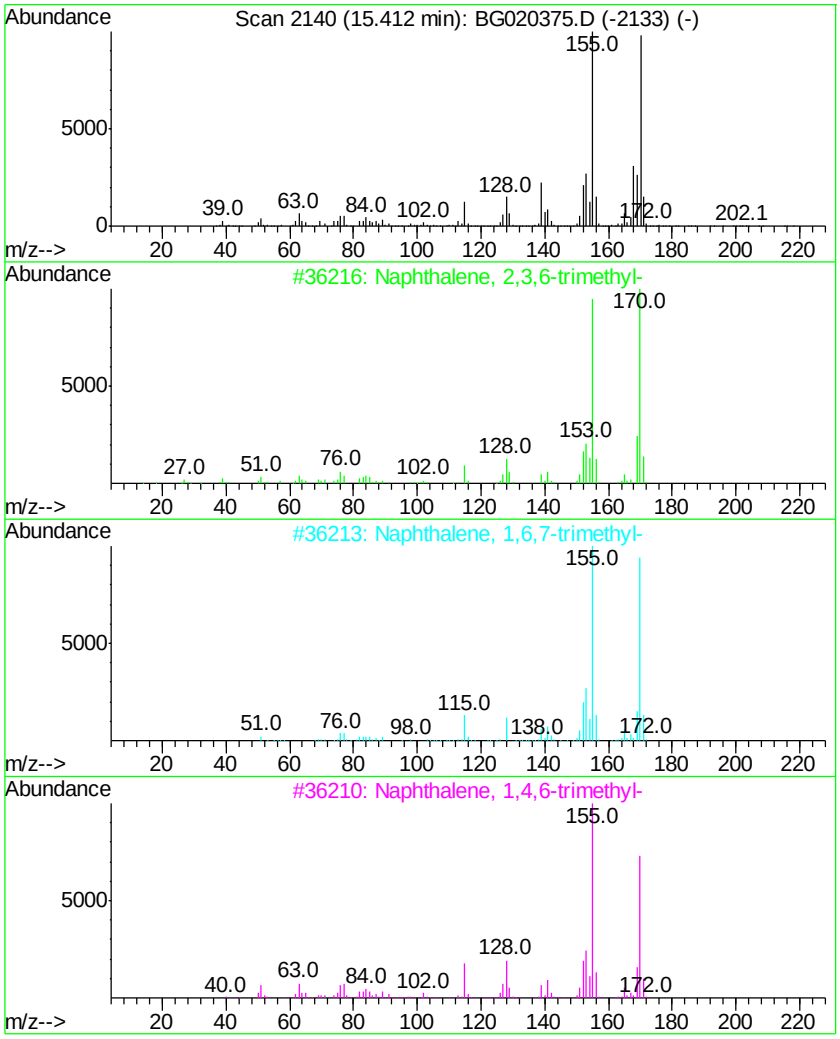
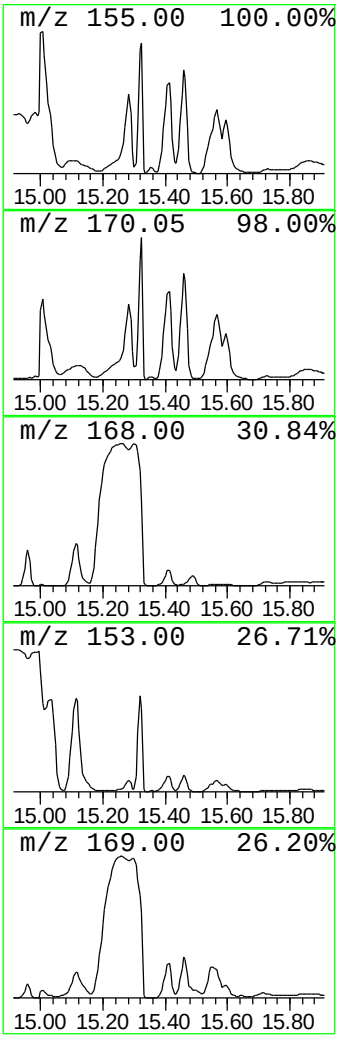
Peak Number 8 Naphthalene, 2,3,6-trimethyl- Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.41	2.65 ng/ul	5679870	Acenaphthene-d10	14.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	98
2	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	96
3	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	95
4	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	94
5	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	93





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Sample : G4848-05
Misc :
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Instrument : BNA_G
ClientSampleId : D9N51

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Quant Title : SVOA CALIBRATION

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

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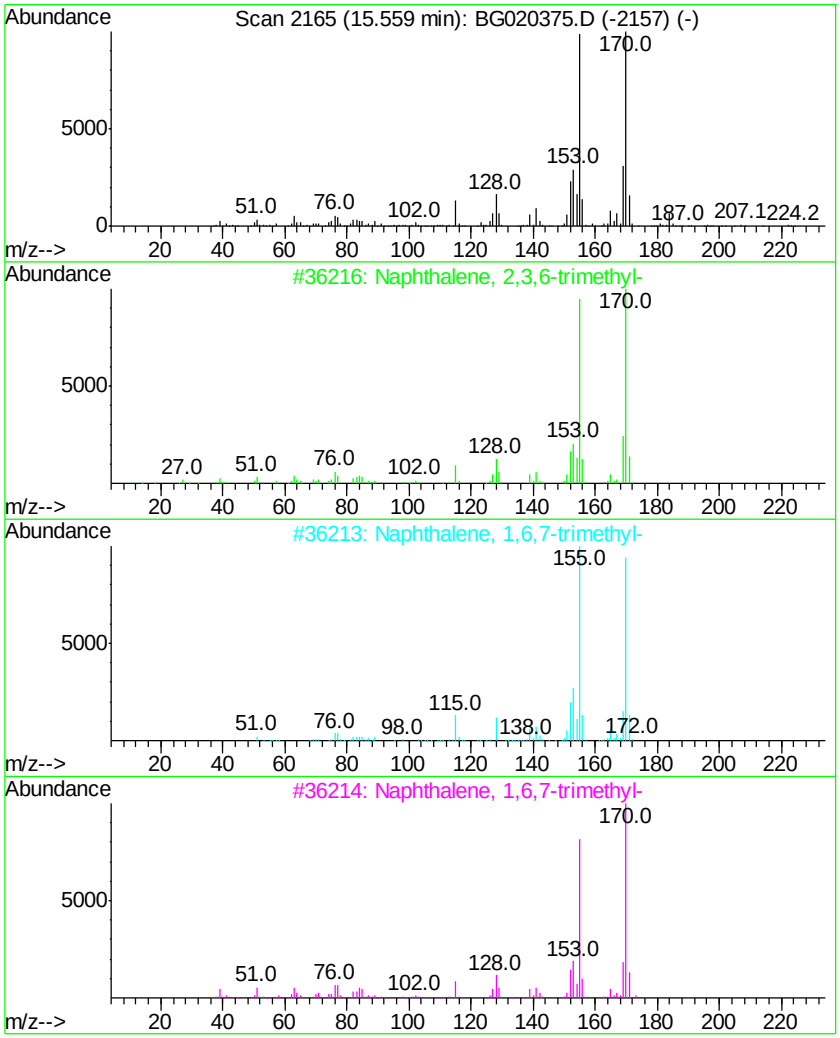
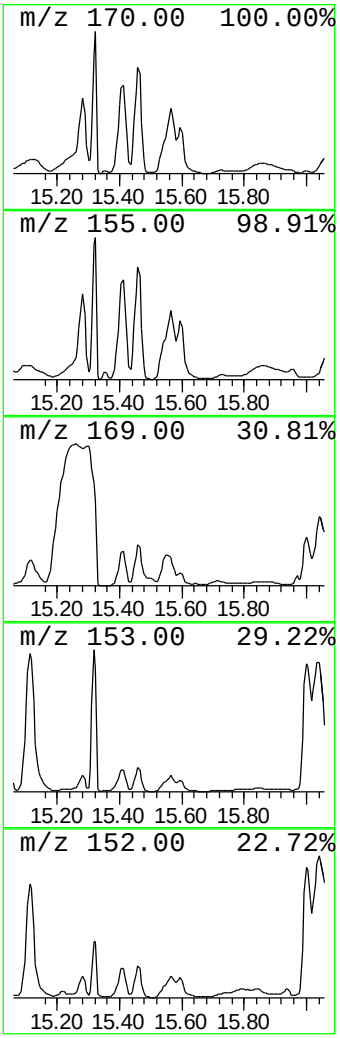
Peak Number 10 Naphthalene, 1,6,7-trimethyl- Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.56	2.42 ng/ul	5170250	Acenaphthene-d10	14.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	98
2	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	96
3	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	96
4	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	96
5	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	96





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Sample : G4848-05
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N51

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Quant Title : SVOA CALIBRATION

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

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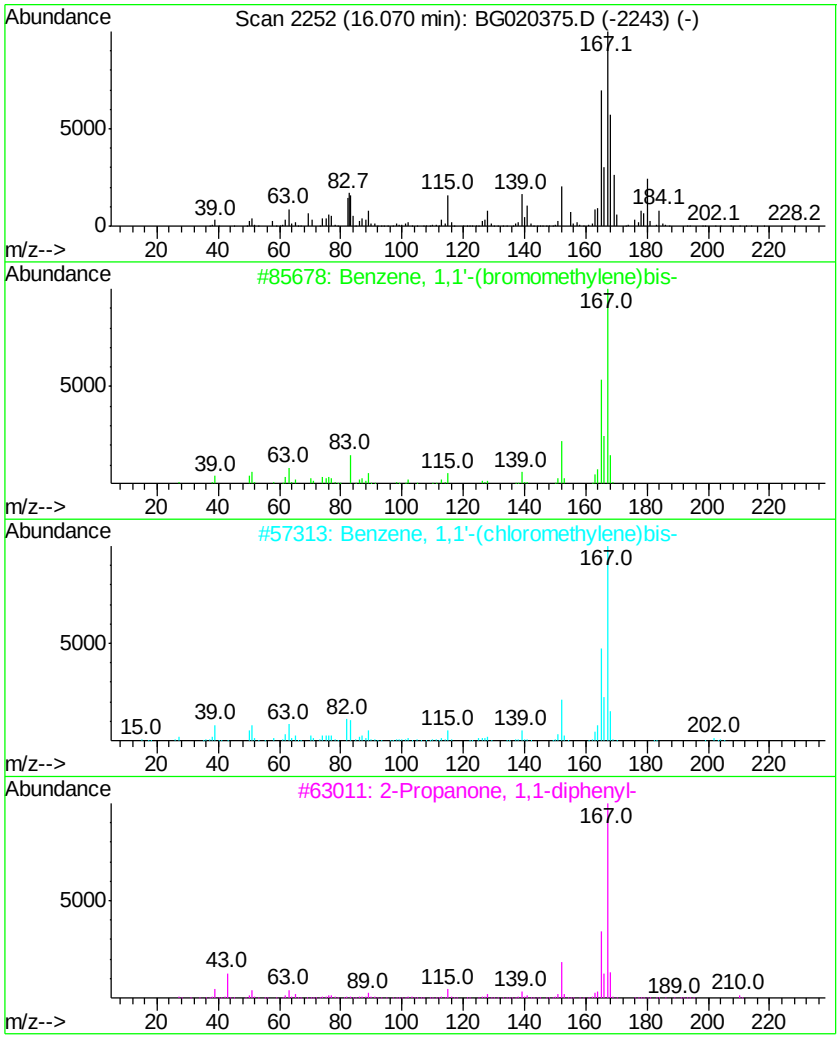
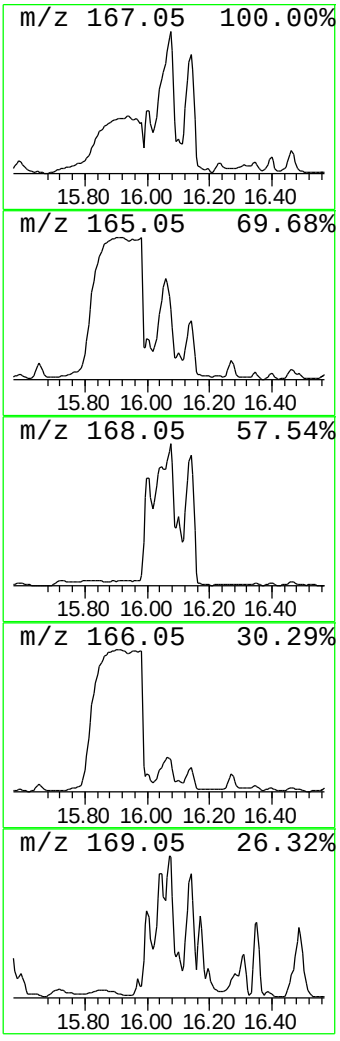
Peak Number 11 Benzene, 1,1'-(bromomethyle... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.07	8.24 ng/ul	17637600	Acenaphthene-d10	14.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,1'-(bromomethylene)bis-	246	C13H11Br	000776-74-9	58
2	Benzene, 1,1'-(chloromethylene)bis-	202	C13H11Cl	000090-99-3	53
3	2-Propanone, 1,1-diphenyl-	210	C15H14O	000781-35-1	43
4	Benzhydryl isothiocyanate	225	C14H11NS	003550-21-8	43
5	5H-Indeno[1,2-b]pyridine	167	C12H9N	000244-99-5	42





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Misc :
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Instrument : BNA_G
ClientSampleId : D9N51

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Quant Title : SVOA CALIBRATION

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

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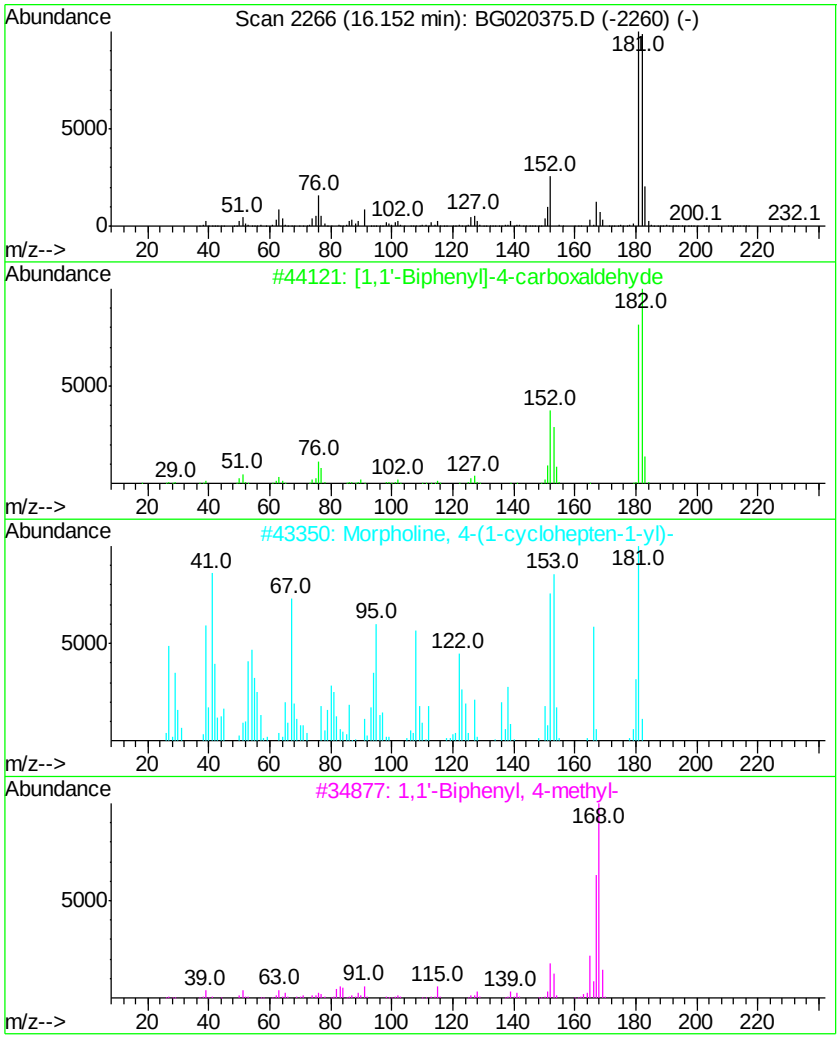
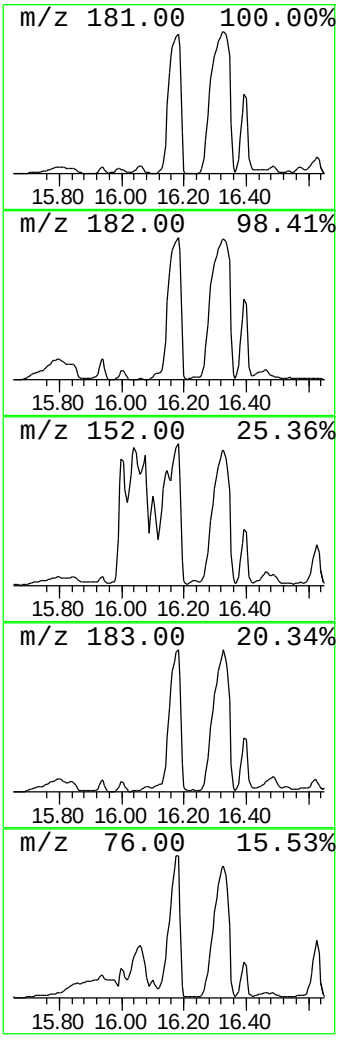
Peak Number 12 [1,1'-Biphenyl]-4-carboxald... Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.15	4.62 ng/ul	9892420	Acenaphthene-d10	14.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	83
2	Morpholine, 4-(1-cyclohepten-1-yl)-	181	C11H19NO	007182-08-3	64
3	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	53
4	1,4-Methanonaphthalene,1,4-dihyd...	182	C14H14	007350-72-3	49
5	4,4'-Dimethylbiphenyl	182	C14H14	000613-33-2	46





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Sample : G4848-05
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N51

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

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

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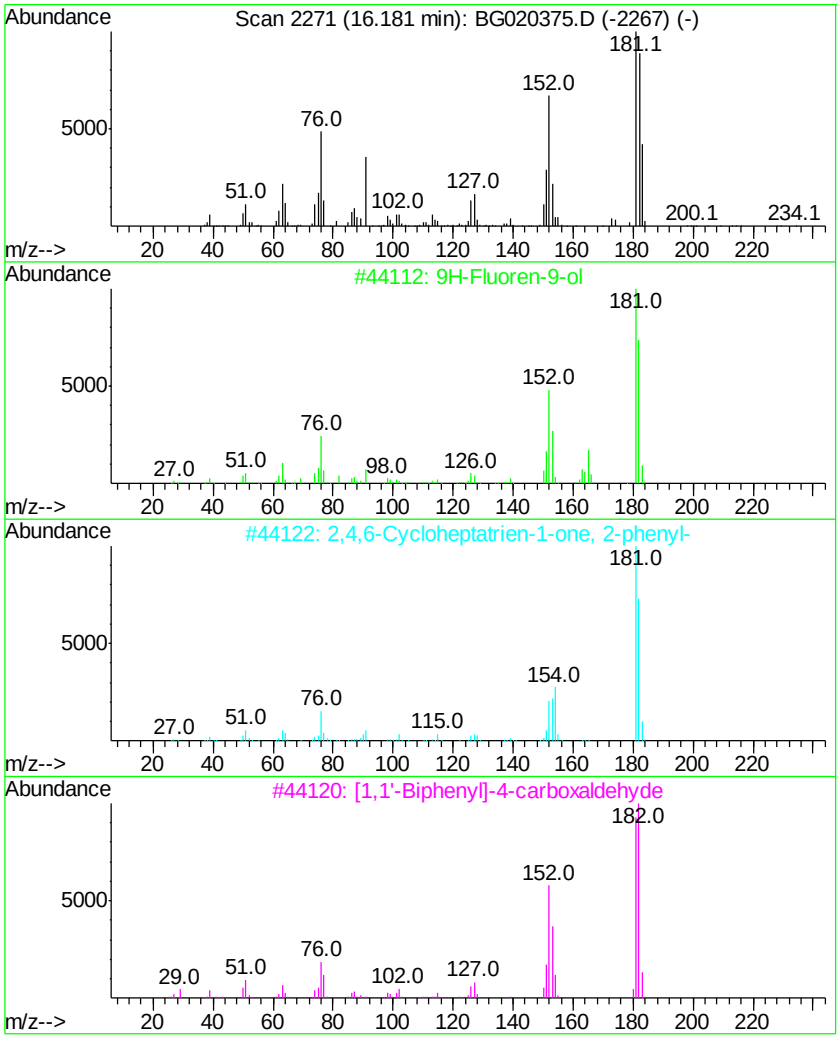
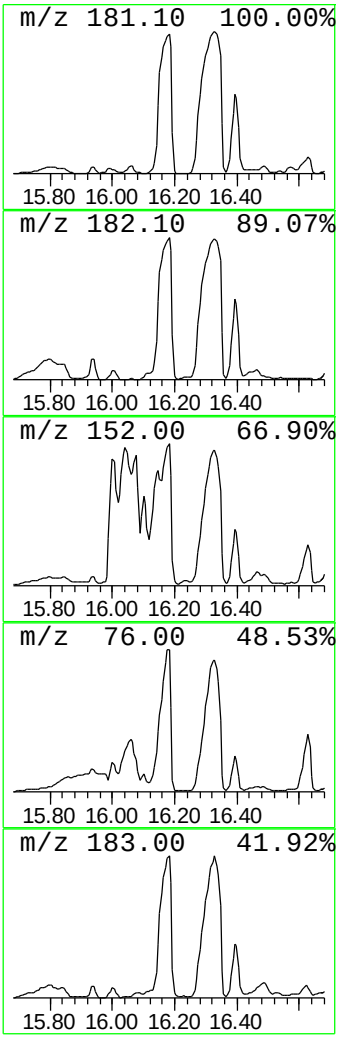
Peak Number 13 9H-Fluoren-9-ol Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.18	6.33 ng/ul	13537300	Acenaphthene-d10	14.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	70
2	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	58
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	52
4	6H-Dibenzo[b,d]-pyran	182	C13H10O	000229-95-8	50
5	2-Hydroxyfluorene	182	C13H10O	002443-58-5	49





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Misc :
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Instrument : BNA_G
ClientSampleId : D9N51

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Quant Title : SVOA CALIBRATION

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

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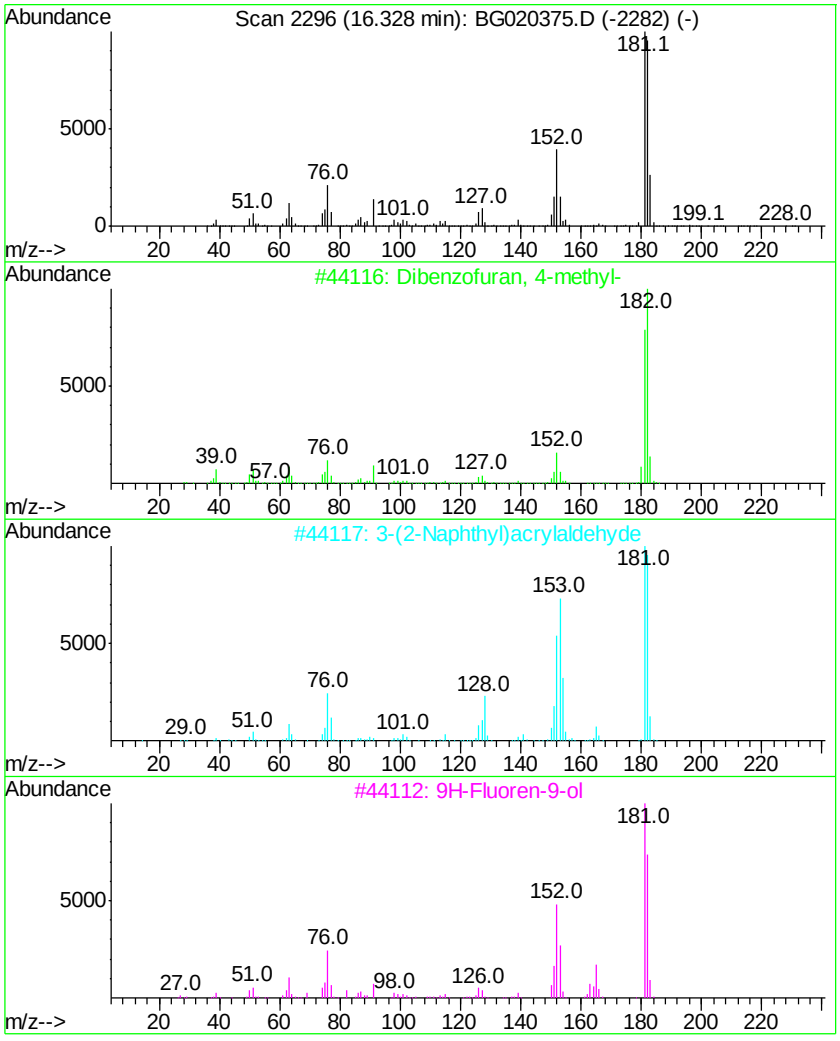
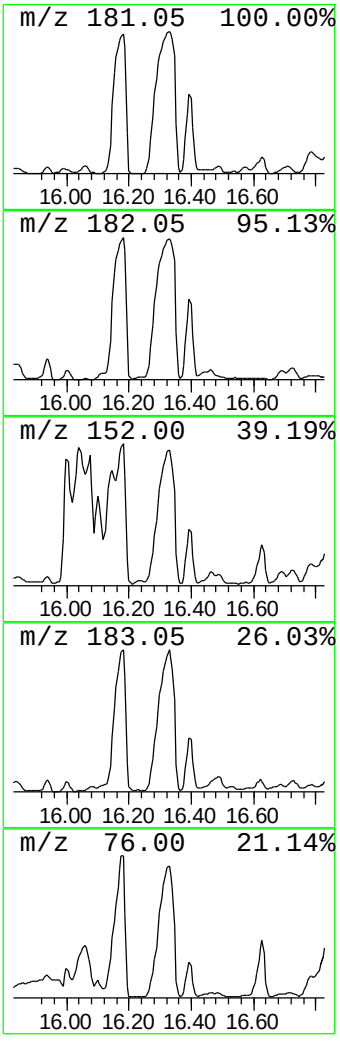
Peak Number 14 Dibenzofuran, 4-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.33	7.61 ng/ul	24220100	Phenanthrene-d10	17.60

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	94
2	3-(2-Naphthyl)acrylaldehyde	182	C13H10O	020884-05-3	90
3	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	87
4	9H-Xanthene	182	C13H10O	000092-83-1	83
5	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	80





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Misc :
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Instrument : BNA_G
ClientSampleId : D9N51

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Quant Title : SVOA CALIBRATION

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

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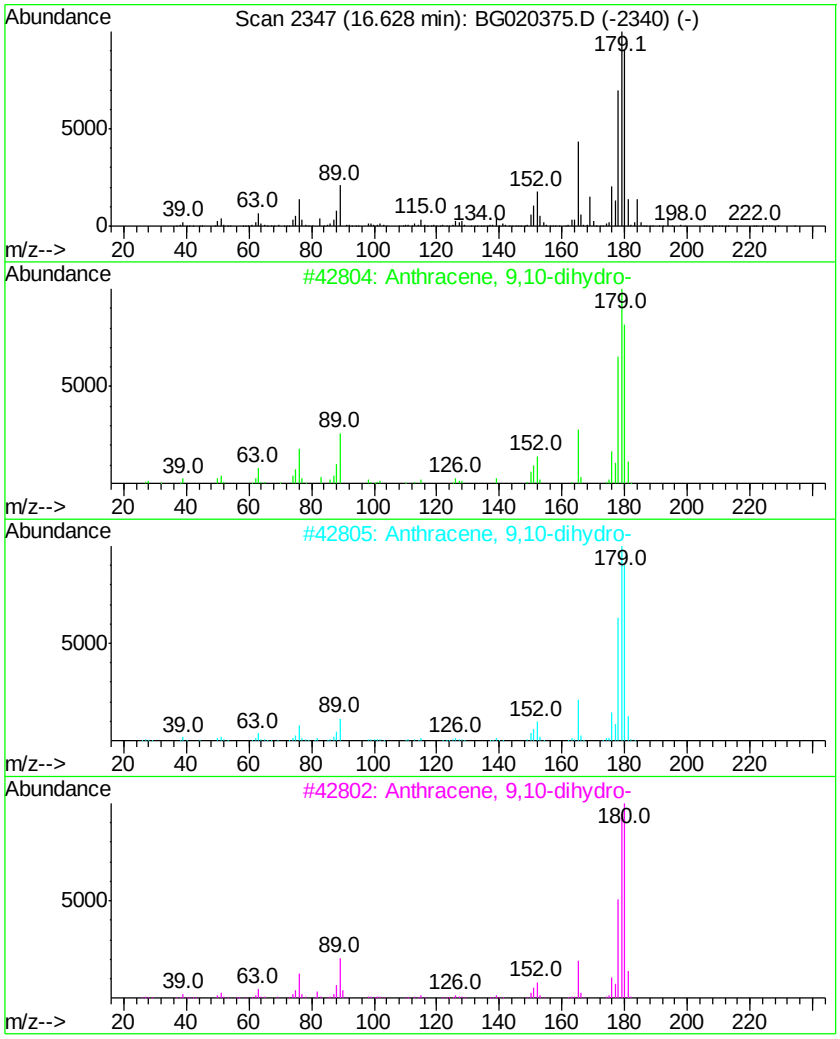
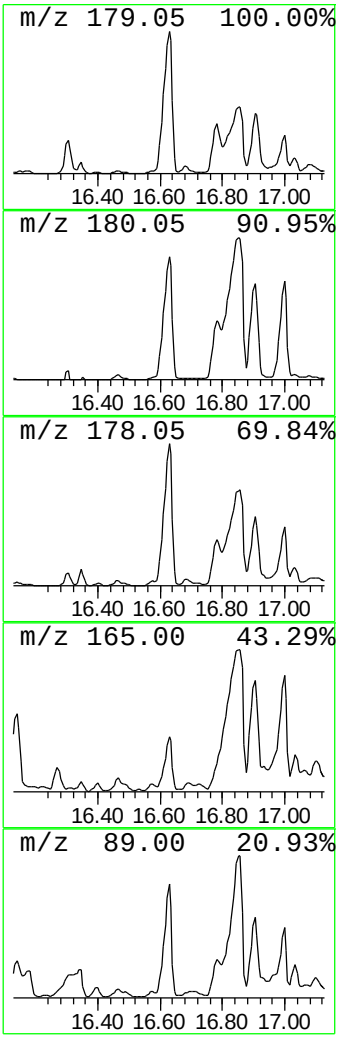
Peak Number 15 Anthracene, 9,10-dihydro- Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.63	3.11 ng/ul	9885080	Phenanthrene-d10	17.60

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	96
2	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	95
3	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	94
4	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	93
5	1,2-Diphenylethylene	180	C14H12	000588-59-0	93





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Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N51

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Quant Title : SVOA CALIBRATION

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

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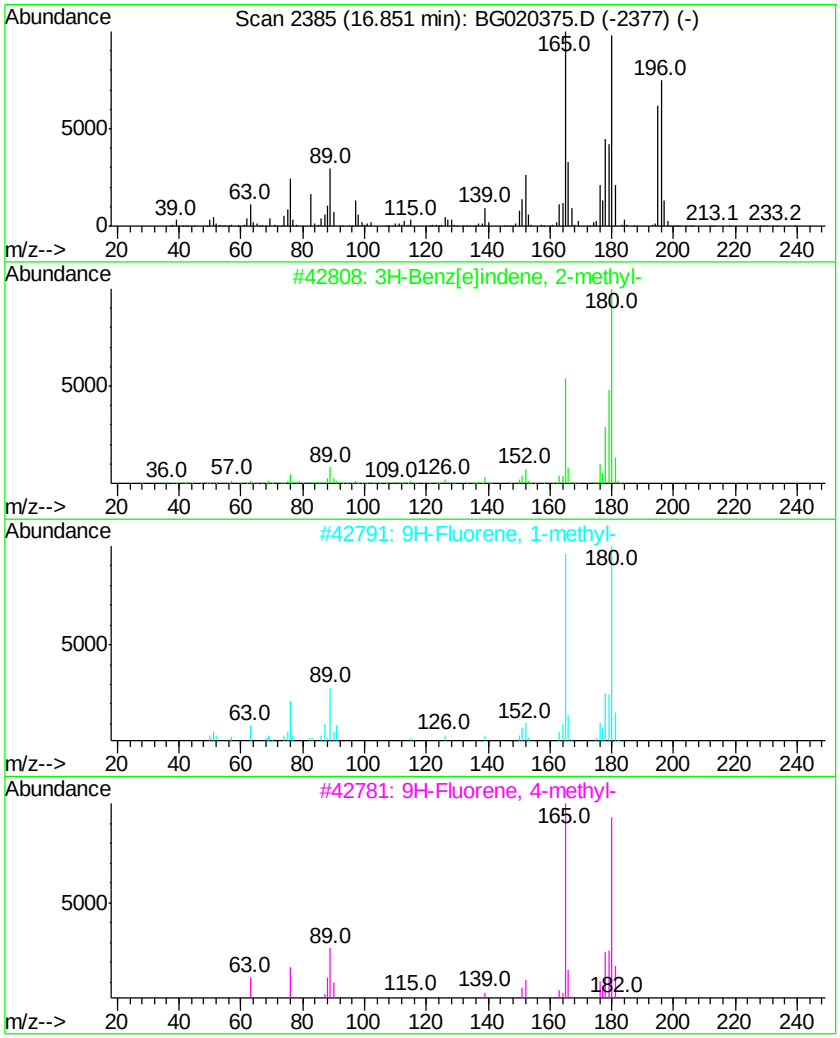
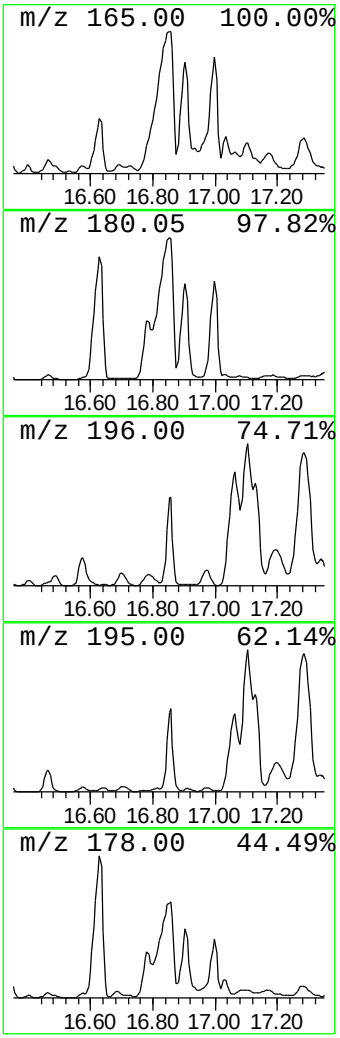
Peak Number 16 3H-Benz[e]indene, 2-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.85	5.61 ng/ul	17856600	Phenanthrene-d10	17.60

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3H-Benz[e]indene, 2-methyl-	180	C14H12	150096-60-9	86
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	64
3	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	50
4	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	47
5	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	46





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Quant Title : SVOA CALIBRATION

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

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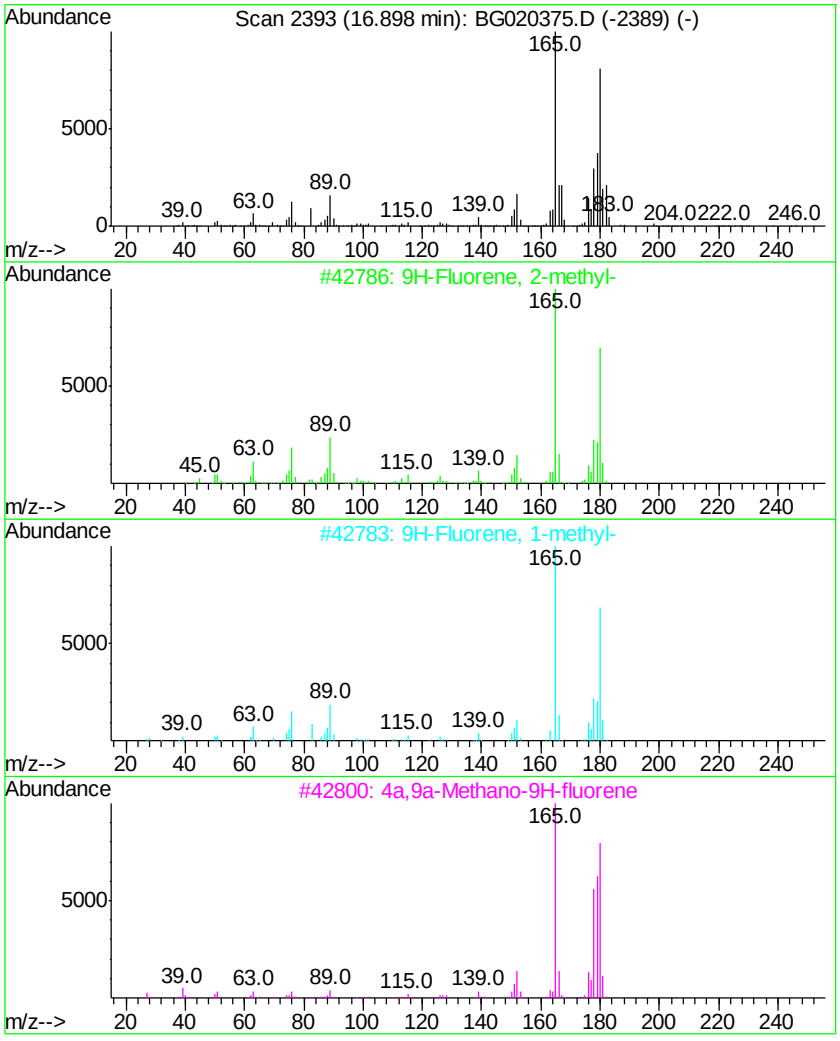
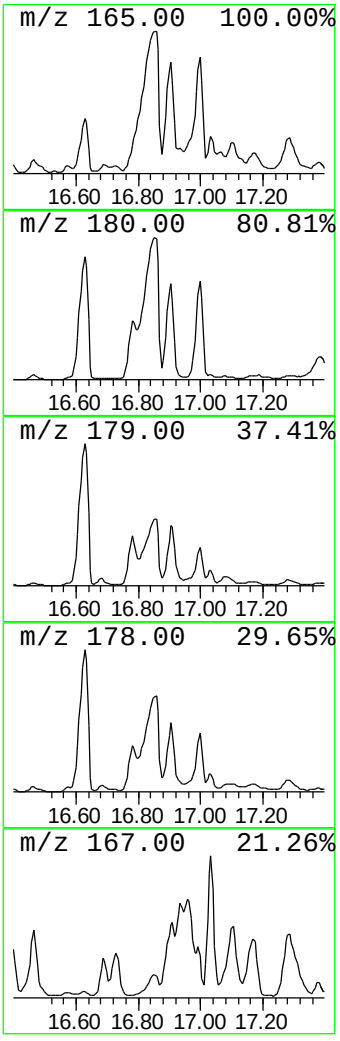
Peak Number 17 9H-Fluorene, 2-methyl- Concentration Rank 44

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.90	2.04 ng/ul	6506700	Phenanthrene-d10	17.60

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	92
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	83
3	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	70
4	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	70
5	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	70





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Misc :
ALS Vial : 40 Sample Multiplier: 1

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Quant Title : SVOA CALIBRATION

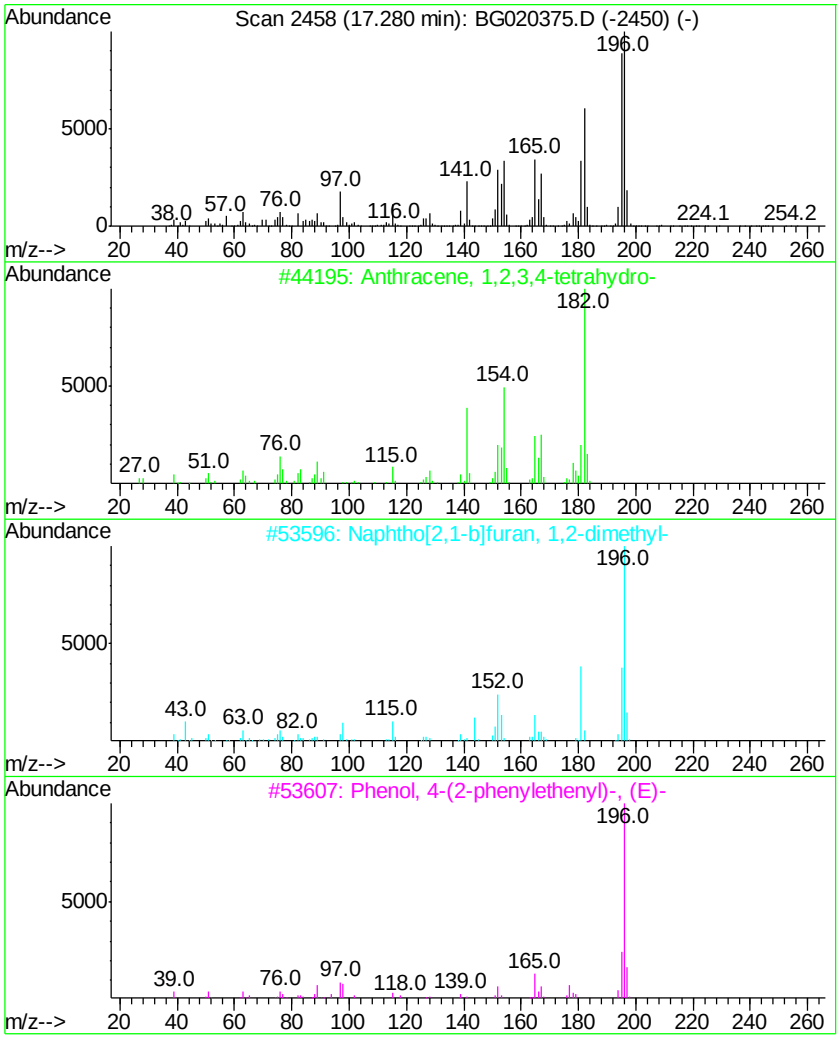
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

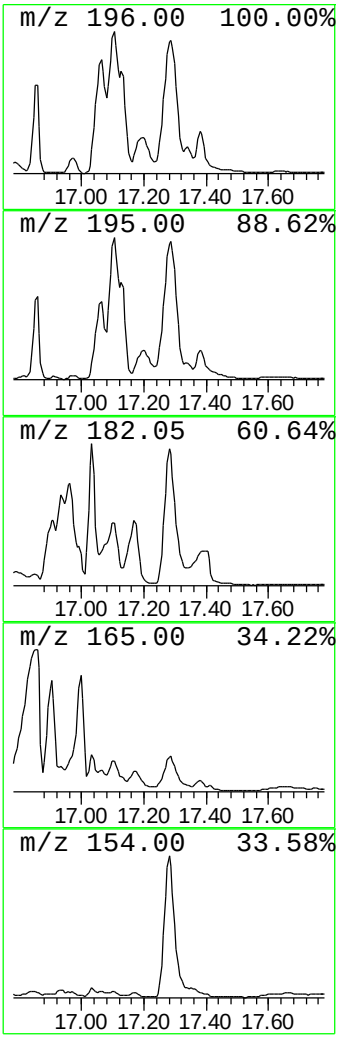
****

Peak Number 18 Anthracene, 1,2,3,4-tetrahy... Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.28	4.61 ng/ul	14665500	Phenanthrene-d10	17.60

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	60
2	Naphtho[2,1-b]furan, 1,2-dimethyl-	196	C14H12O	129812-23-3	45
3	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	43
4	Dibenz[c,e]oxepin, 5,7-dihydro-	196	C14H12O	001136-22-7	38
5	2-Hydroxyfluorene	182	C13H10O	002443-58-5	35





Library Search Compound Report

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Data File : BG020375.D
Acq On : 21 Dec 2015 12:14
Operator : UM/SJ
Sample : G4848-05
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N51

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

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

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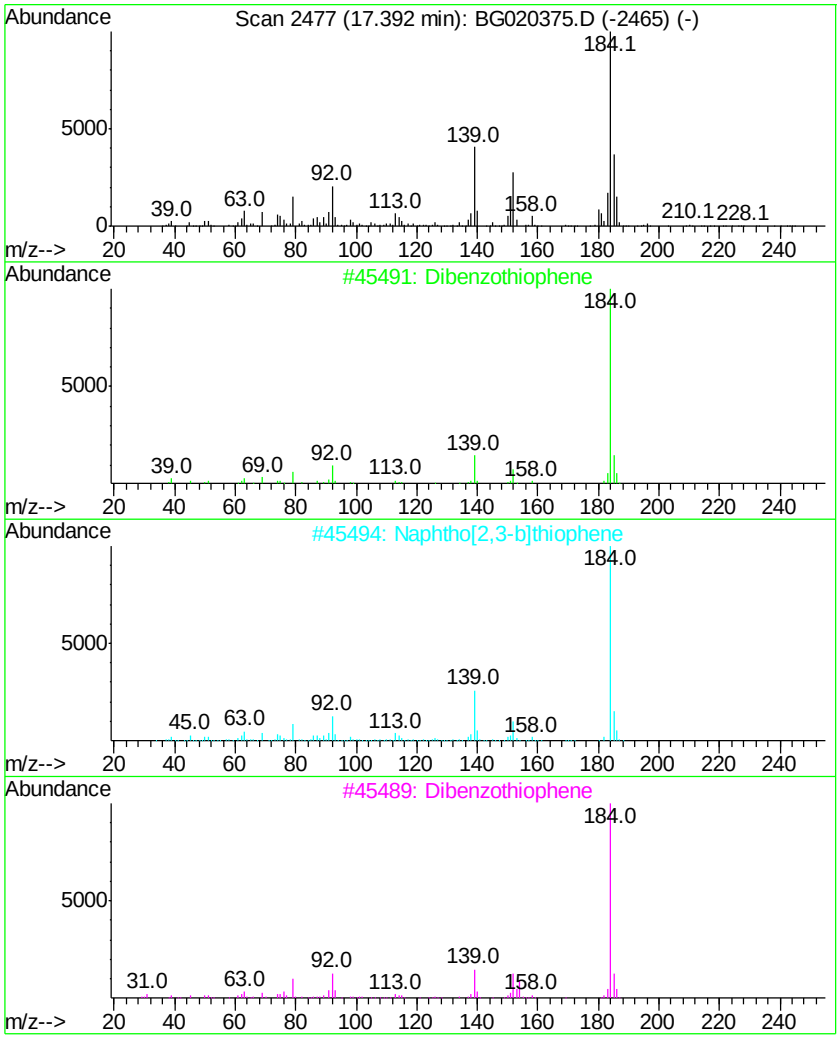
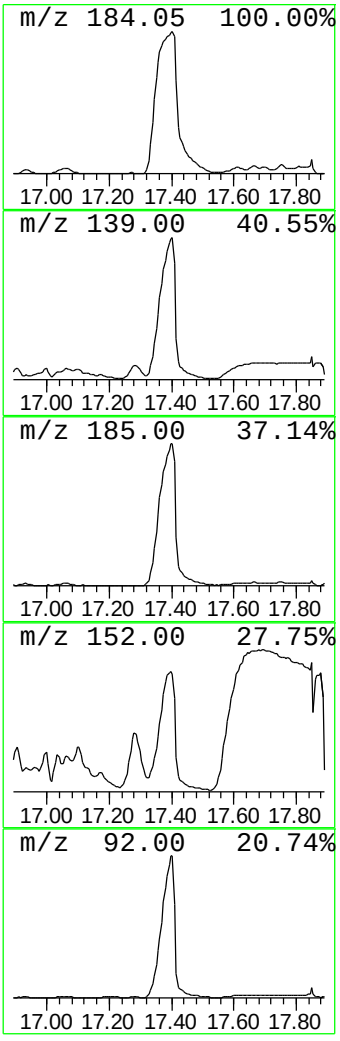
Peak Number 19 Dibenzothiophene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.39	10.81 ng/ul	34404500	Phenanthrene-d10	17.60

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	93
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	90
3	Dibenzothiophene	184	C12H8S	000132-65-0	87
4	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	87
5	Dibenzothiophene	184	C12H8S	000132-65-0	87





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Sample : G4848-05
Misc :
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Instrument : BNA_G
ClientSampleId : D9N51

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Quant Title : SVOA CALIBRATION

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

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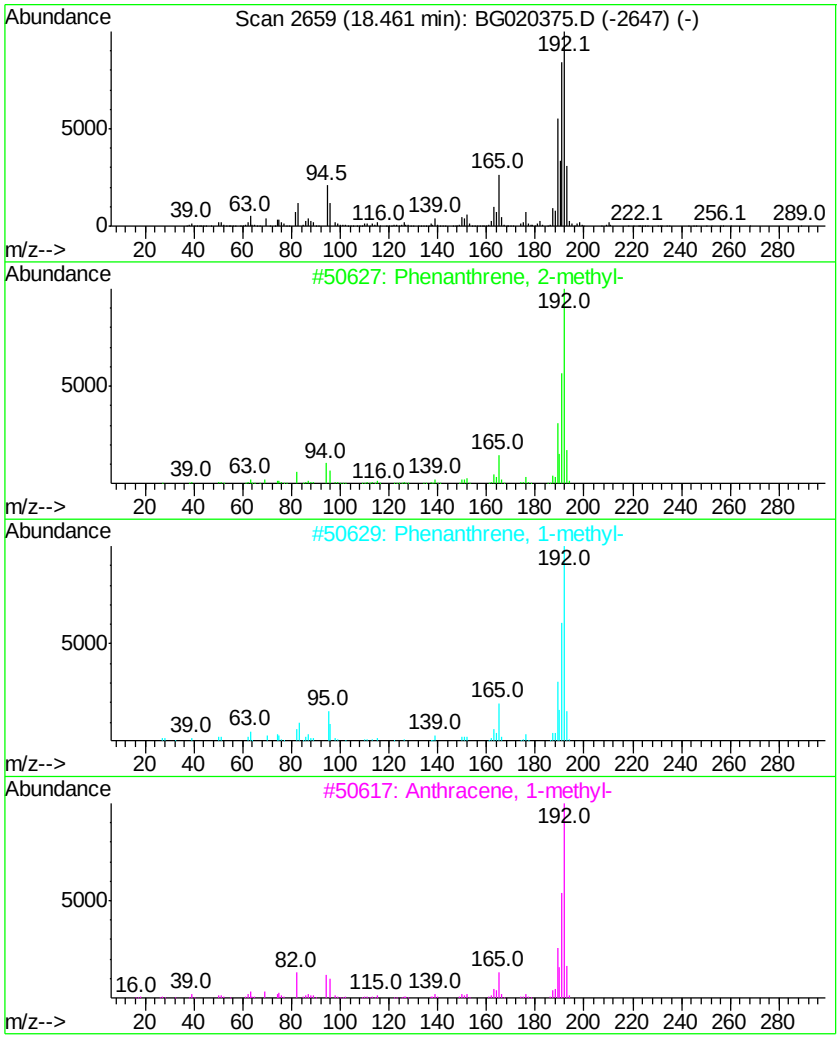
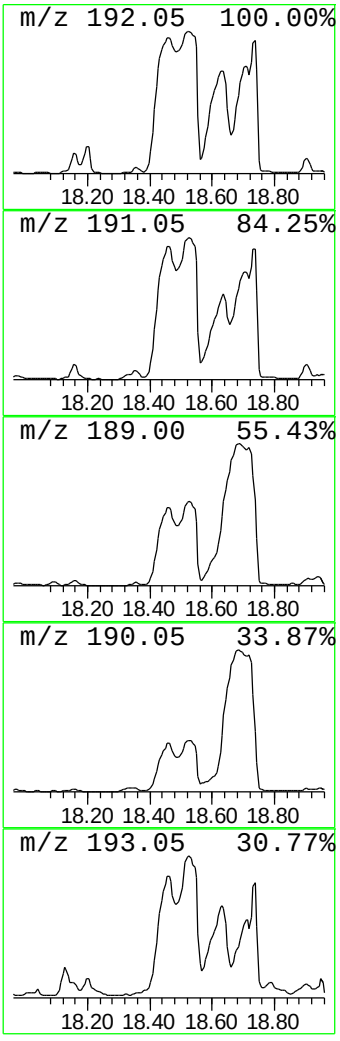
Peak Number 20 Phenanthrene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.46	9.74 ng/ul	31005000	Phenanthrene-d10	17.60

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	92
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	86
4	1a,9b-Dihydro-1H-cyclopropa[a]an...	192	C15H12	006109-24-6	70
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	64





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Sample : G4848-05
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N51

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Quant Title : SVOA CALIBRATION

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

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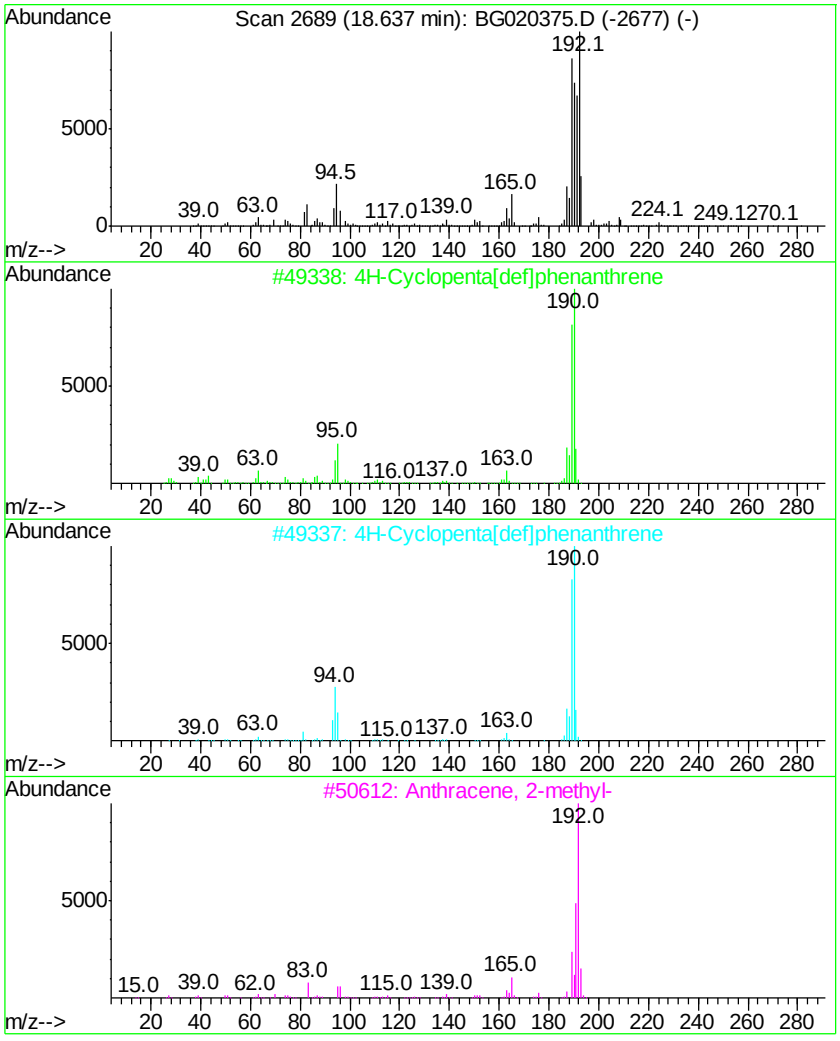
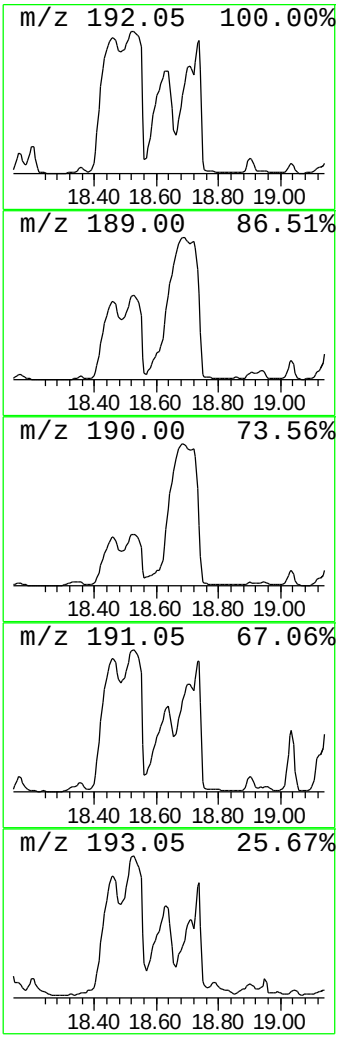
Peak Number 21 4H-Cyclopenta[def]phenanthrene Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.64	4.86 ng/ul	15455900	Phenanthrene-d10	17.60

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	55
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	46
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	42
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	42
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	38





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Operator : UM/SJ
Sample : G4848-05
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N51

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

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

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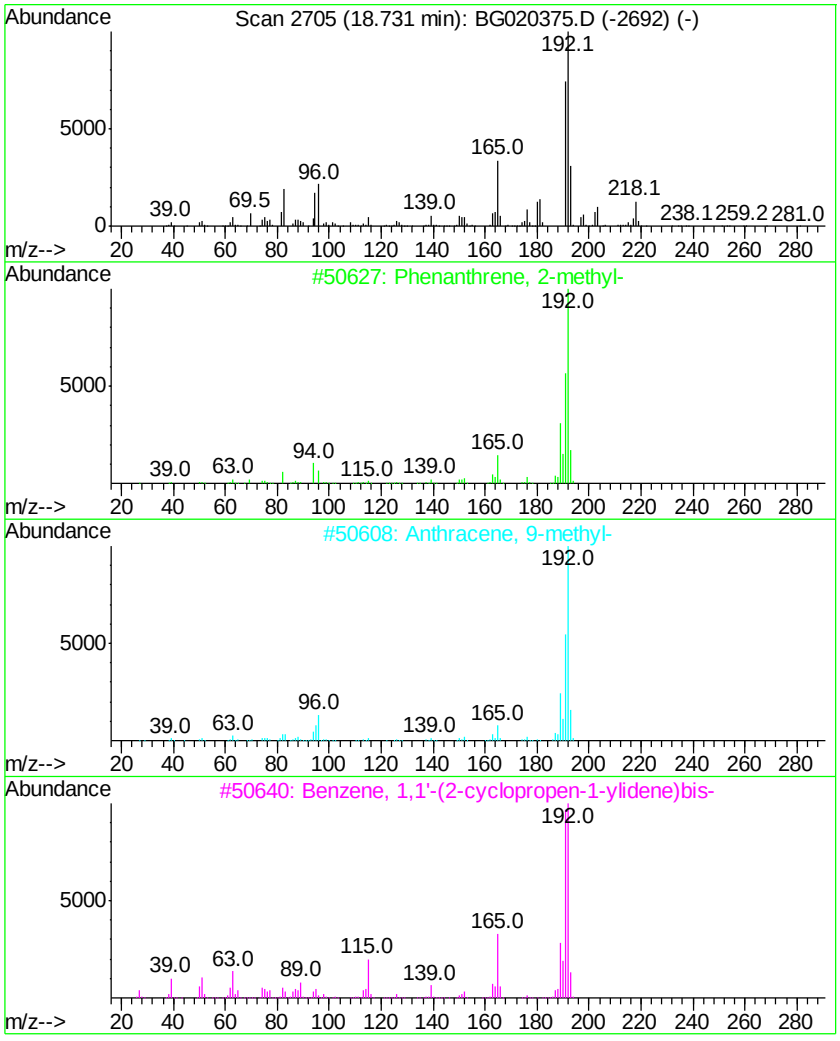
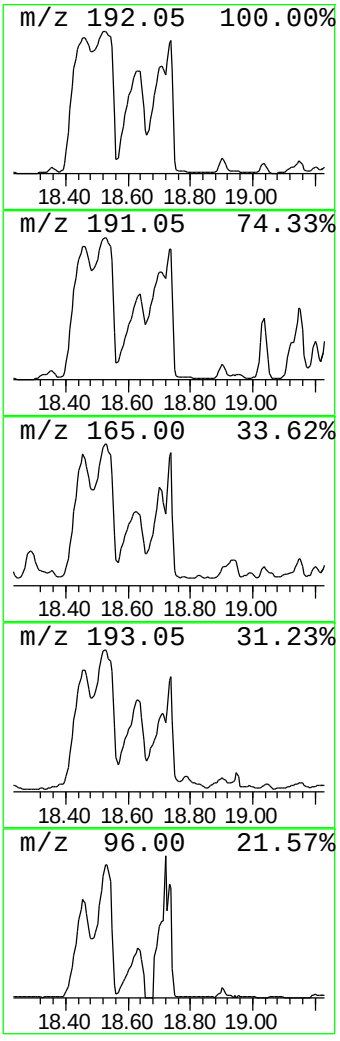
Peak Number 22 Anthracene, 9-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.73	14.76 ng/ul	46989500	Phenanthrene-d10	17.60

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	72
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	68
3	Benzene, 1,1'-(2-cyclopropen-1-y...	192	C15H12	022825-21-4	62
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	62
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	62





Library Search Compound Report

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Acq On : 21 Dec 2015 12:14
Operator : UM/SJ
Sample : G4848-05
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N51

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Quant Title : SVOA CALIBRATION

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

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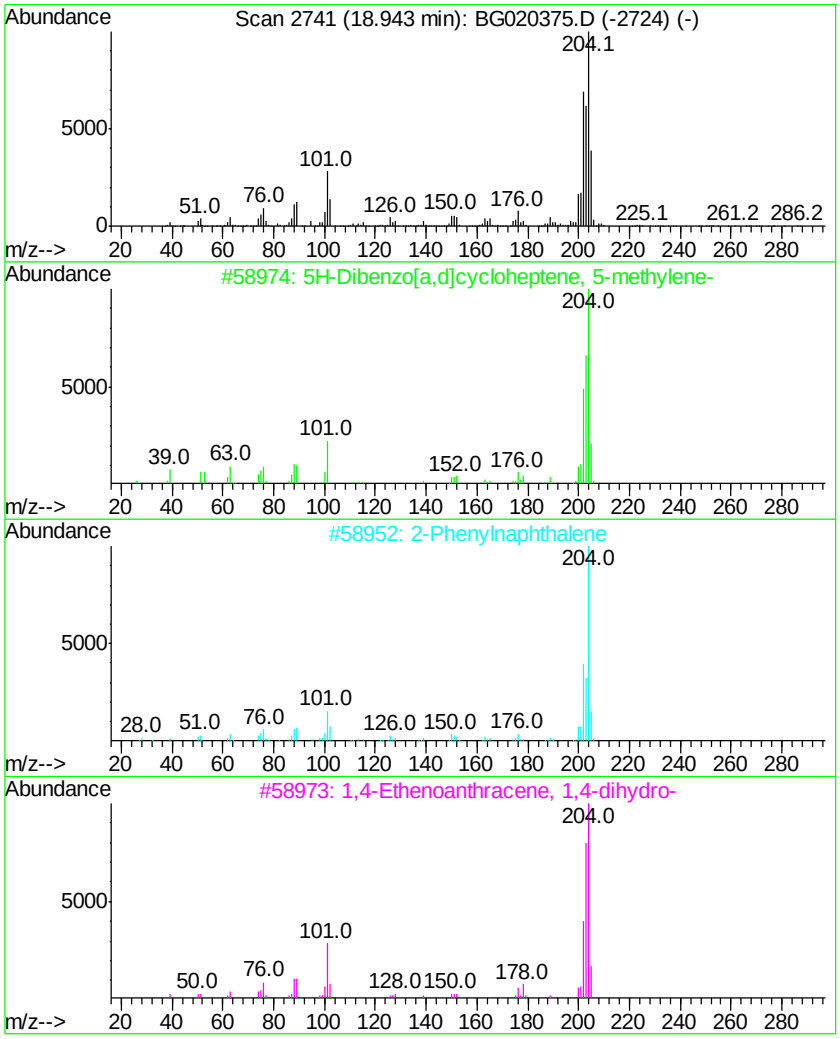
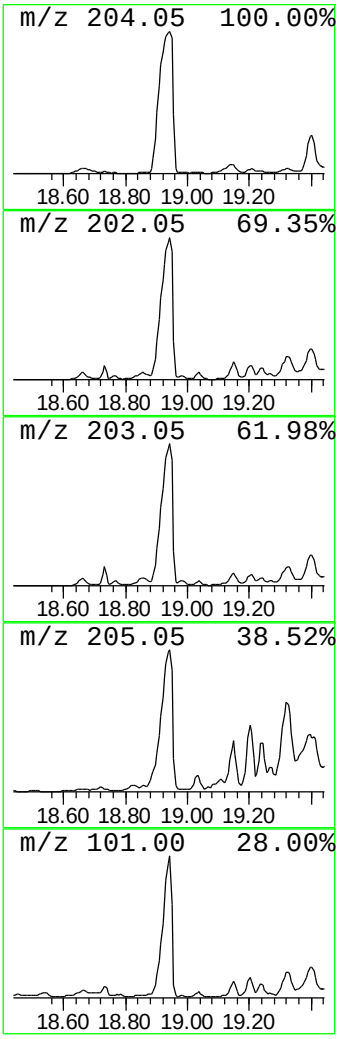
Peak Number 23 5H-Dibenzo[a,d]cycloheptene... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.94	7.40 ng/ul	23538000	Phenanthrene-d10	17.60

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5H-Dibenzo[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	90
2	2-Phenylnaphthalene	204	C16H12	035465-71-5	78
3	1,4-Ethenoanthracene, 1,4-dihydro-	204	C16H12	027765-96-4	64
4	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	64
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	64





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Acq On : 21 Dec 2015 12:14
Operator : UM/SJ
Sample : G4848-05
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N51

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

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

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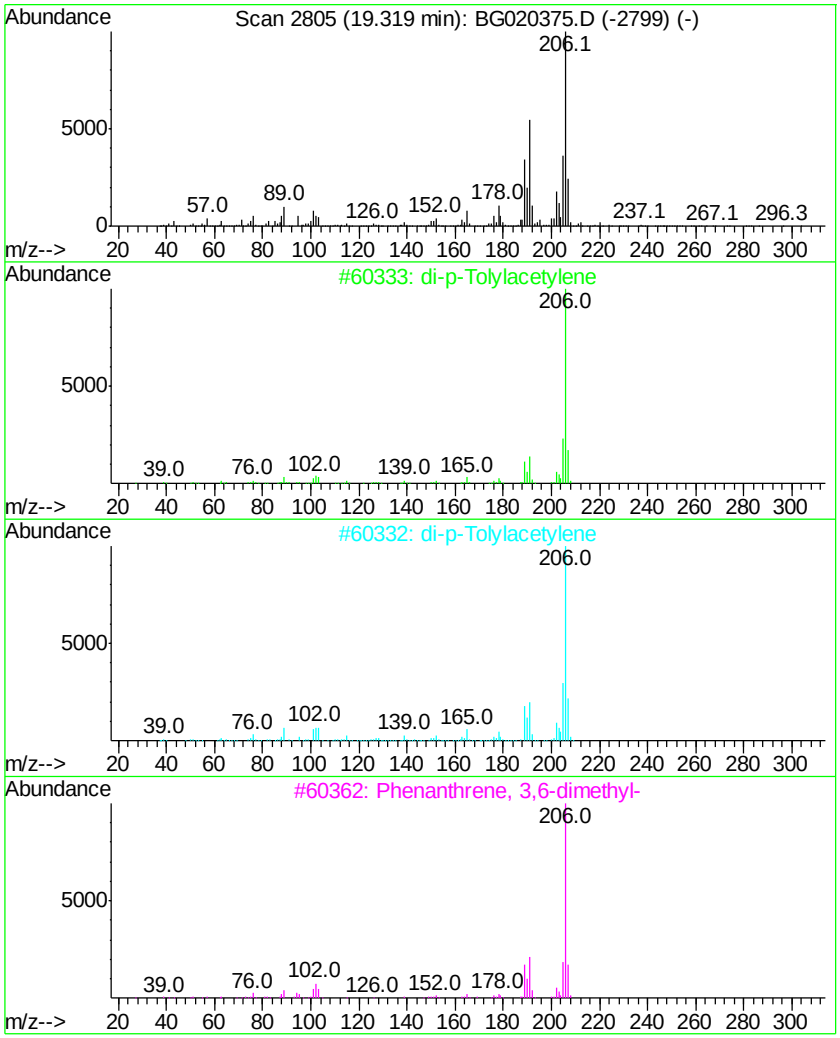
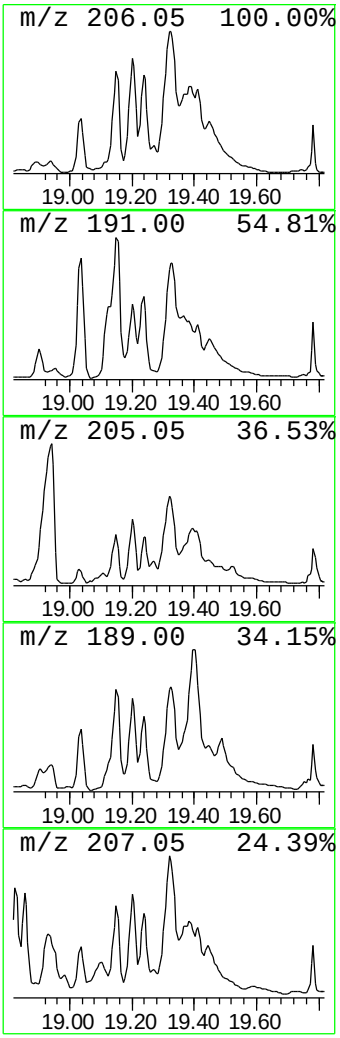
Peak Number 24 di-p-Tolylacetylene Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.32	3.29 ng/ul	10466300	Phenanthrene-d10	17.60

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





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Sample : G4848-05
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N51

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

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

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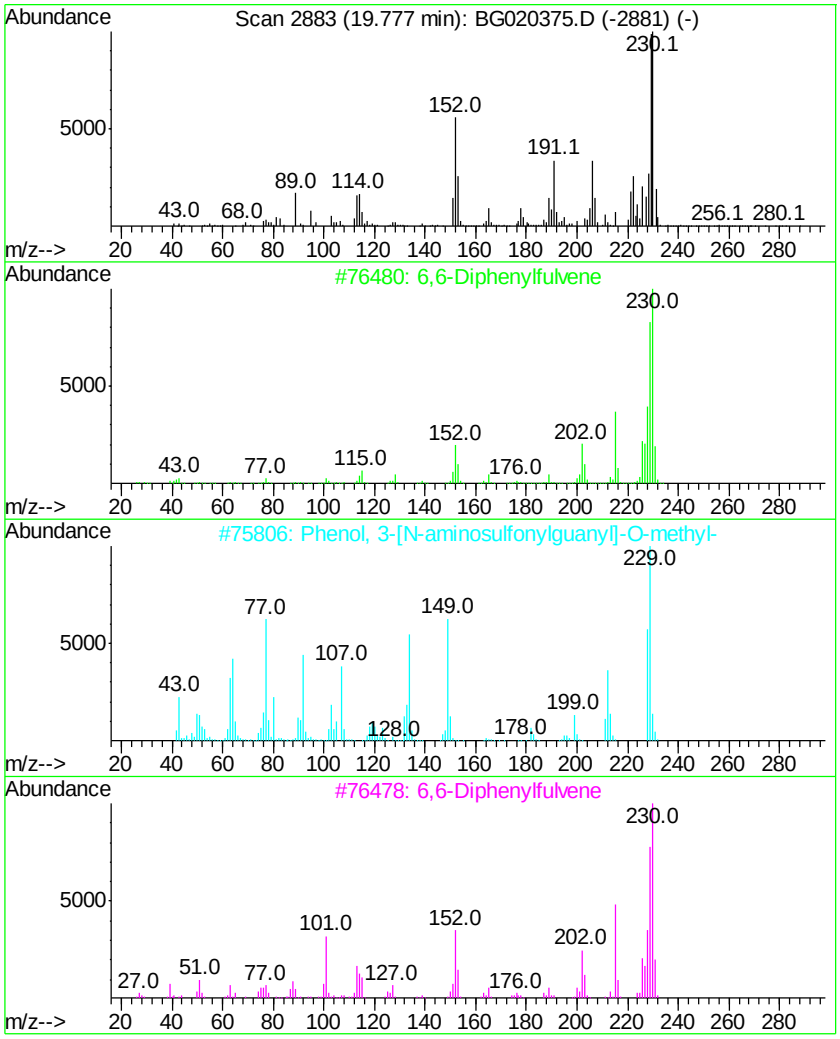
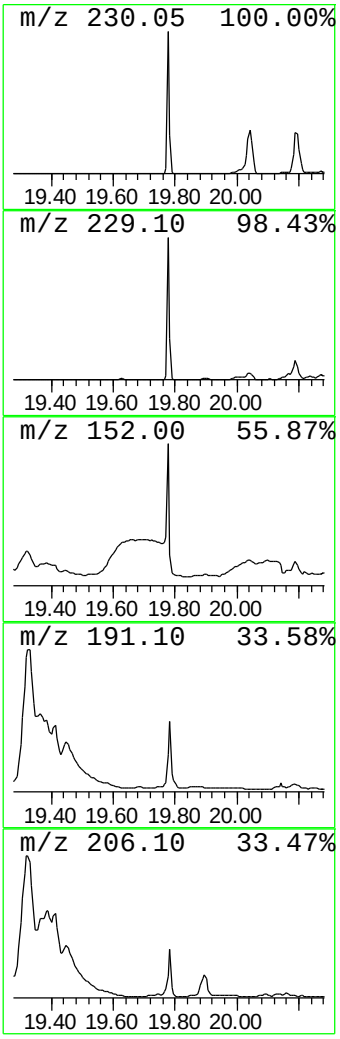
Peak Number 25 6,6-Diphenylfulvene Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.78	3.11 ng/ul	7074940	Chrysene-d12	21.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6,6-Diphenylfulvene	230	C18H14	002175-90-8	83
2	Phenol, 3-[N-aminosulfonylguanyl...	229	C8H11N3O3S	1000211-43-8	53
3	6,6-Diphenylfulvene	230	C18H14	002175-90-8	49
4	Naphthacene, 5,12-dihydro-	230	C18H14	000959-02-4	49
5	Naphthacene, 5,12-dihydro-	230	C18H14	000959-02-4	49





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Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N51

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

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

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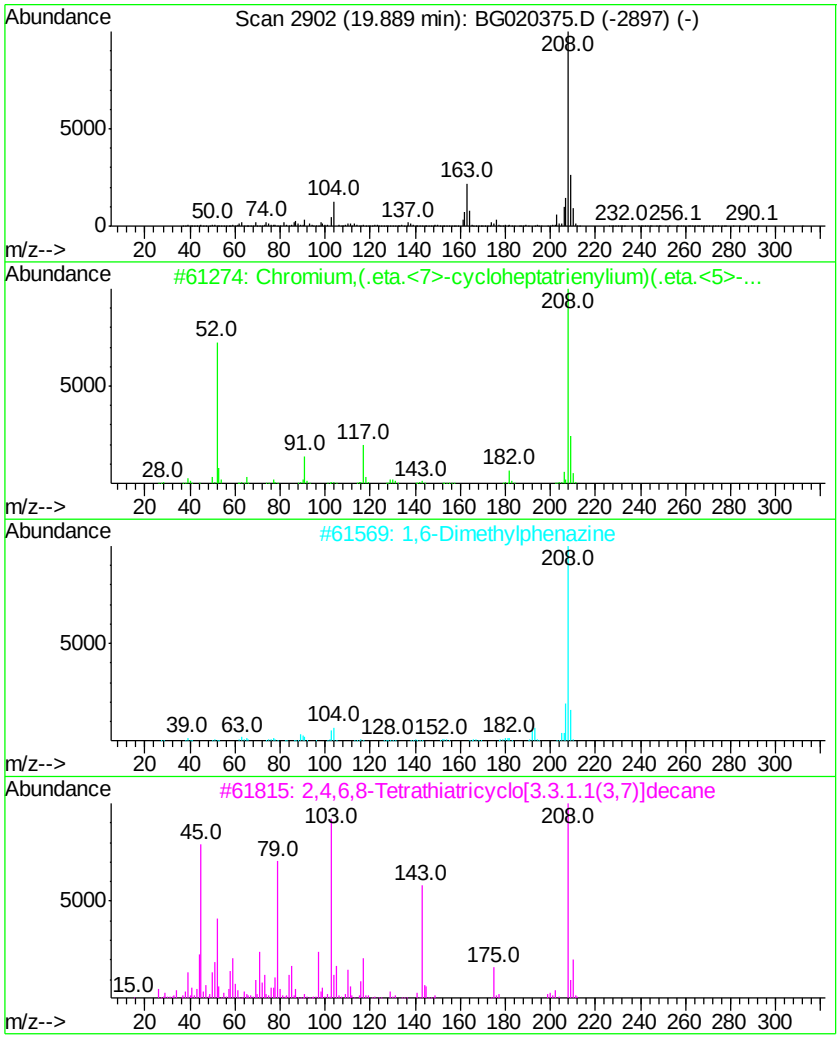
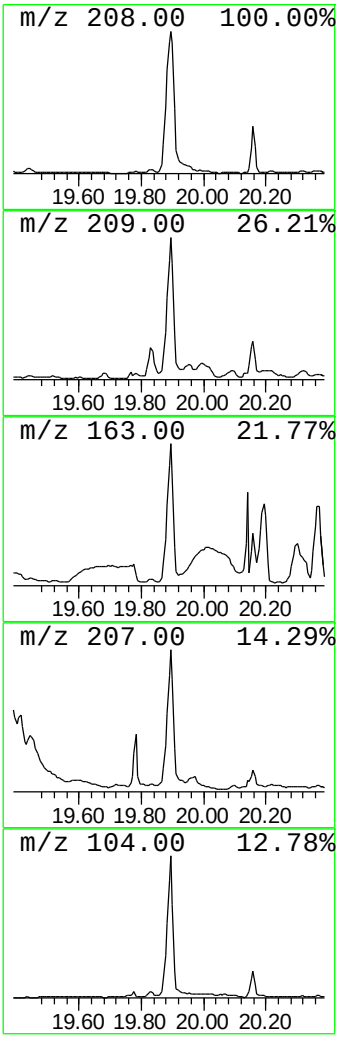
Peak Number 26 Chromium,(.eta.<7>-cyclohep... Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.89	3.01 ng/ul	6854070	Chrysene-d12	21.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chromium,(.eta.<7>-cycloheptatri...	208	C12H12Cr	012093-81-1	53
2	1,6-Dimethylphenazine	208	C14H12N2	058718-43-7	47
3	2,4,6,8-Tetrathiatricyclo[3.3.1....	208	C6H8S4	000281-38-9	43
4	3-Methyl-2,2-diphenylaziridine	209	C15H15N	007764-13-8	42
5	Thiourea, N-(1-methylpropyl)-N'-...	208	C11H16N2S	015093-37-5	38





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Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N51

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Quant Title : SVOA CALIBRATION

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

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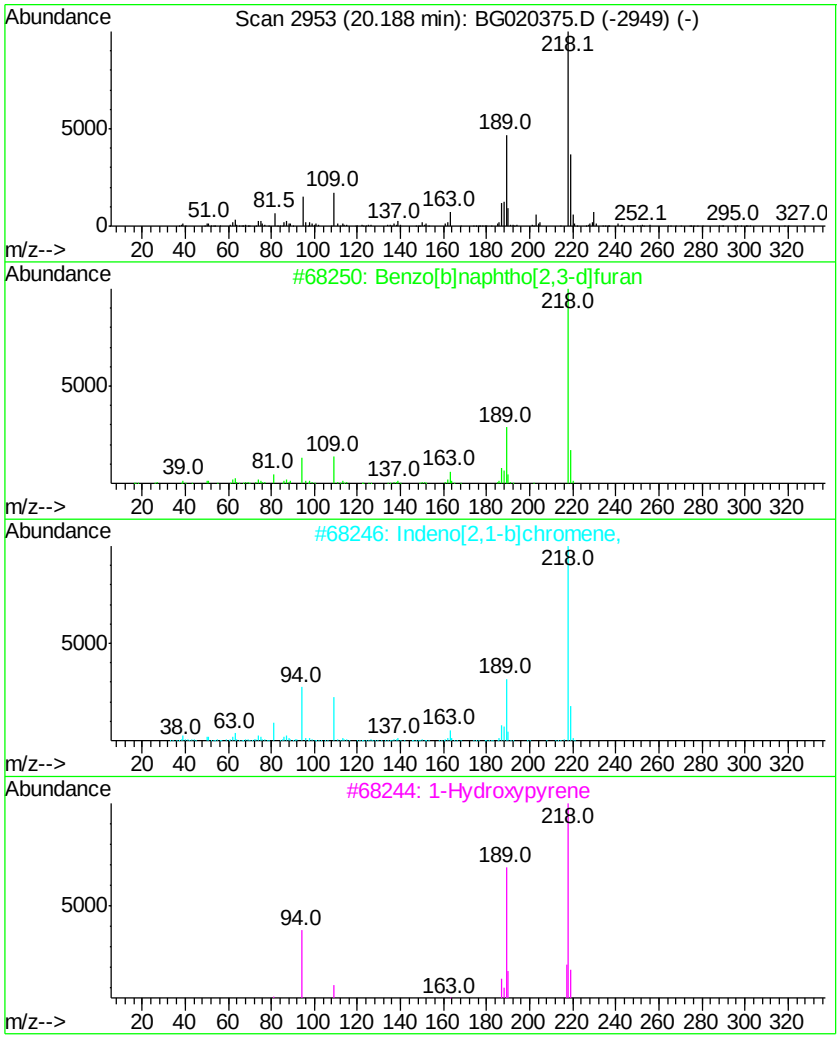
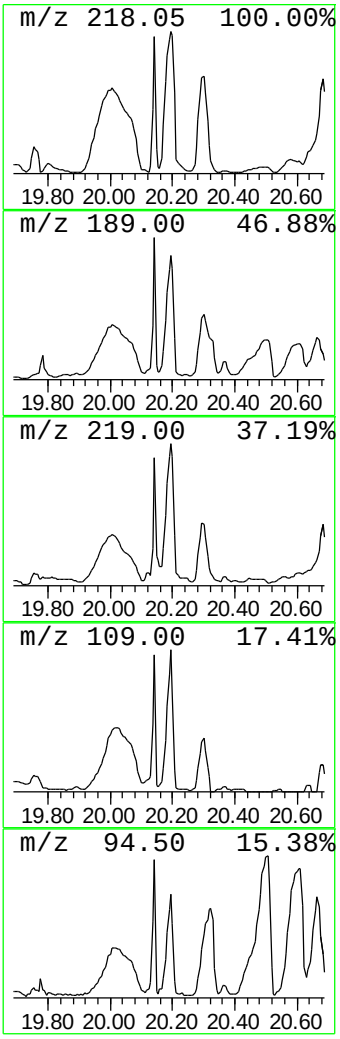
Peak Number 28 Benzo[b]naphtho[2,3-d]furan Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.19	4.35 ng/ul	9887980	Chrysene-d12	21.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	95
2	Indeno[2,1-b]chromene,	218	C16H10O	000243-24-3	81
3	1-Hydroxypyrene	218	C16H10O	005315-79-7	53
4	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	49
5	Benzo[kl]xanthene	218	C16H10O	000200-23-7	49





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Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N51

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

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

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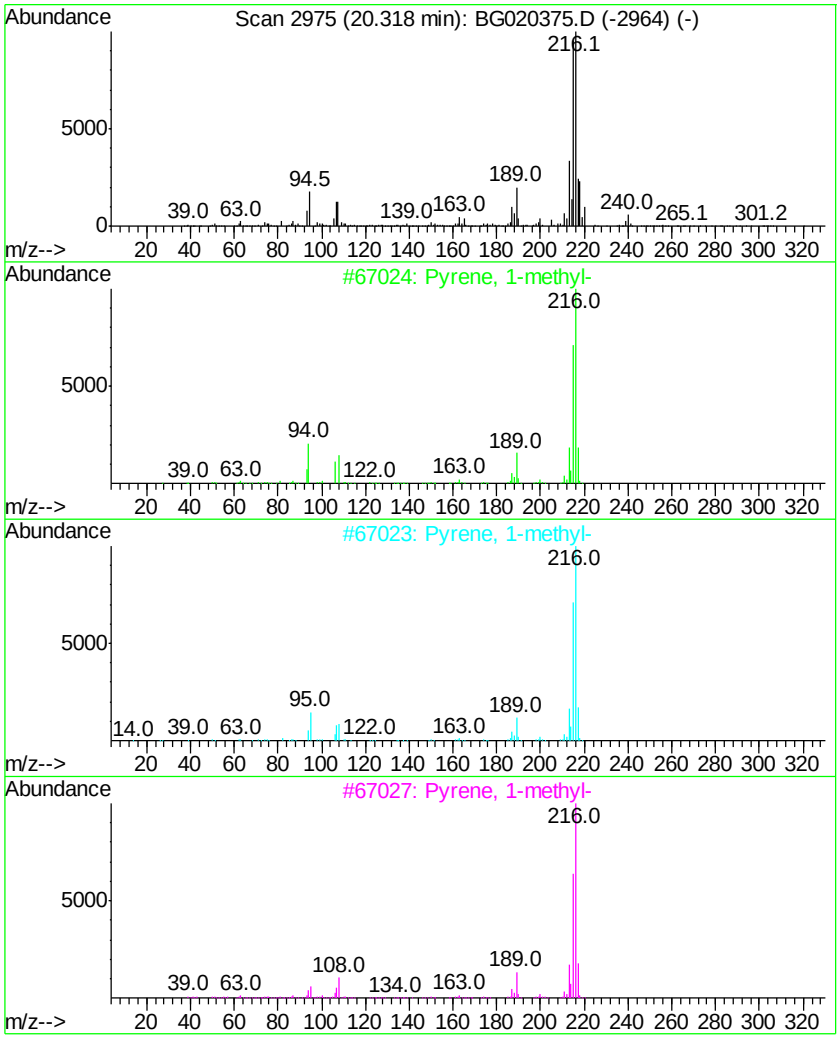
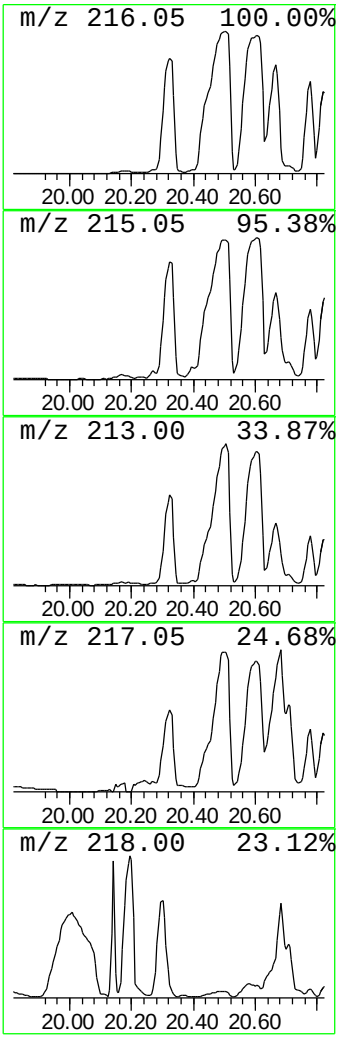
Peak Number 29 Pyrene, 1-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.32	7.68 ng/ul	17471200	Chrysene-d12	21.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	76
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	70





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Sample : G4848-05
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N51

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

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

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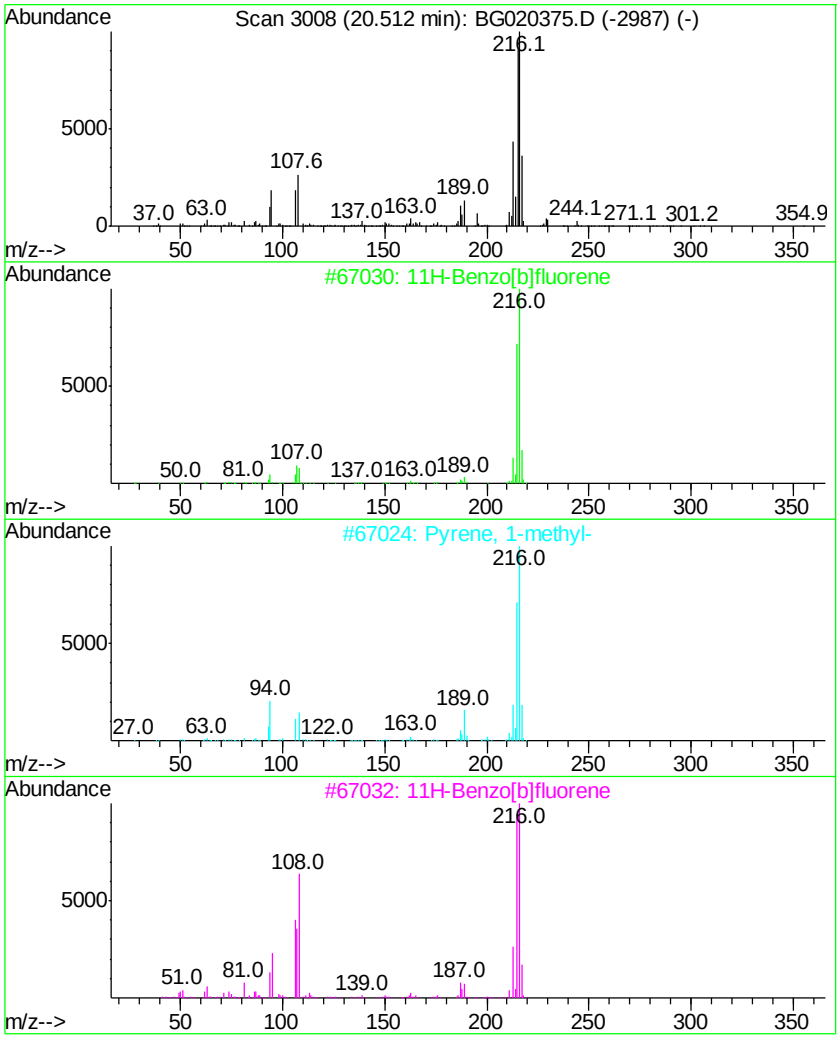
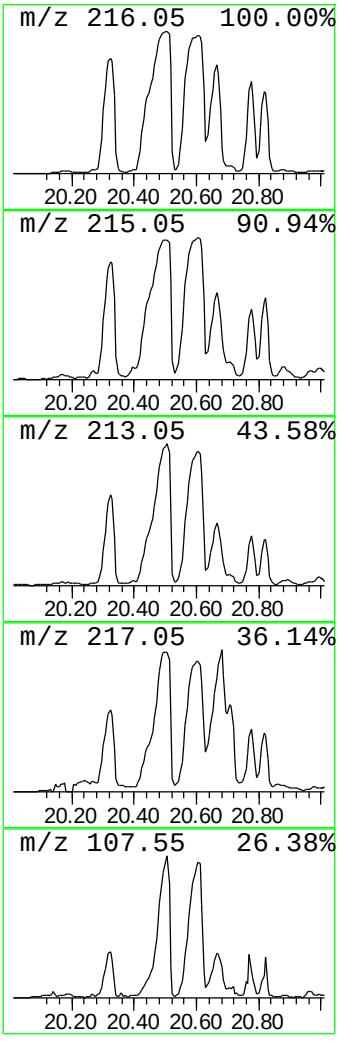
Peak Number 30 11H-Benzo[b]fluorene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.51	13.25 ng/ul	30133100	Chrysene-d12	21.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	68
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	62
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	58
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	52
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	50





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122015\
Data File : BG020375.D
Acq On : 21 Dec 2015 12:14
Operator : UM/SJ
Sample : G4848-05
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N51

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.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
Indane	8.48	20.0	ng/ul	2734120	1	8.10	2734120	20.0
Indene	8.66	67.5	ng/ul	9222510	1	8.10	2734120	20.0
Benzocycloheptatr...	12.93	9.3	ng/ul	41358600	2	11.05	89366100	20.0
Naphthalene, 2,3-...	13.81	7.1	ng/ul	15193800	3	14.87	42803800	20.0
Naphthalene, 2,6-...	13.98	13.5	ng/ul	28873200	3	14.87	42803800	20.0
Naphthalene, 1,4-...	14.34	4.9	ng/ul	10564400	3	14.87	42803800	20.0
1-Isopropenylnaph...	15.11	3.9	ng/ul	8271940	3	14.87	42803800	20.0
Naphthalene, 2,3,...	15.41	2.6	ng/ul	5679870	3	14.87	42803800	20.0
Naphthalene, 1,6,...	15.56	2.4	ng/ul	5170250	3	14.87	42803800	20.0
Benzene, 1,1'-(br...	16.07	8.2	ng/ul	17637600	3	14.87	42803800	20.0
[1,1'-Biphenyl]-4...	16.15	4.6	ng/ul	9892420	3	14.87	42803800	20.0
9H-Fluoren-9-ol	16.18	6.3	ng/ul	13537300	3	14.87	42803800	20.0
Dibenzofuran, 4-m...	16.33	7.6	ng/ul	24220100	4	17.60	63657300	20.0
Anthracene, 9,10-...	16.63	3.1	ng/ul	9885080	4	17.60	63657300	20.0
3H-Benz[e]indene,...	16.85	5.6	ng/ul	17856600	4	17.60	63657300	20.0
9H-Fluorene, 2-me...	16.90	2.0	ng/ul	6506700	4	17.60	63657300	20.0
Anthracene, 1,2,3...	17.28	4.6	ng/ul	14665500	4	17.60	63657300	20.0
Dibenzothiophene	17.39	10.8	ng/ul	34404500	4	17.60	63657300	20.0
Phenanthrene, 2-m...	18.46	9.7	ng/ul	31005000	4	17.60	63657300	20.0
4H-Cyclopenta[def...	18.64	4.9	ng/ul	15455900	4	17.60	63657300	20.0
Anthracene, 9-met...	18.73	14.8	ng/ul	46989500	4	17.60	63657300	20.0
5H-Dibenzo[a,d]cy...	18.94	7.4	ng/ul	23538000	4	17.60	63657300	20.0
di-p-Tolylacetylene	19.32	3.3	ng/ul	10466300	4	17.60	63657300	20.0
6,6-Diphenylfulvene	19.78	3.1	ng/ul	7074940	5	21.90	45482000	20.0
Chromium,(.eta.<7...	19.89	3.0	ng/ul	6854070	5	21.90	45482000	20.0
Benzo[b]naphtho[2...	20.19	4.3	ng/ul	9887980	5	21.90	45482000	20.0
Pyrene, 1-methyl-	20.32	7.7	ng/ul	17471200	5	21.90	45482000	20.0
11H-Benzo[b]fluorene	20.51	13.3	ng/ul	30133100	5	21.90	45482000	20.0