LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121715\
Data File : BG020238.D
Acq On : 17 Dec 2015 2:08
Operator : UM/SJ
Sample : G4767-13
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N35

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	3.203	57	62	78	rVB	171888	262290	0.93%	0.125%
2	8.637	981	987	995	rVB	168388	279732	0.99%	0.133%
3	10.306	1264	1271	1282	rBV3	112143	303056	1.08%	0.144%
4	10.999	1377	1389	1395	rVV	4577792	11693710	41.59%	5.574%
5	11.093	1400	1405	1413	rVB	231842	400176	1.42%	0.191%
6	12.586	1646	1659	1668	rBV	3881745	7717737	27.45%	3.679%
7	12.797	1682	1695	1702	rVV	2459287	4356249	15.49%	2.077%
8	13.567	1817	1826	1833	rBV	1666043	2592630	9.22%	1.236%
9	13.761	1852	1859	1870	rVB	711188	1341365	4.77%	0.639%
10	13.914	1870	1885	1892	rBV	995629	2718656	9.67%	1.296%
11	14.055	1901	1909	1914	rVV	1287426	2536938	9.02%	1.209%
12	14.107	1914	1918	1927	rVV2	967503	1726459	6.14%	0.823%
13	14.290	1942	1949	1952	rVV	566391	924866	3.29%	0.441%
14	14.425	1966	1972	1973	rBV2	192583	292192	1.04%	0.139%
15	14.454	1973	1977	1986	rVB	468451	758068	2.70%	0.361%
16	14.713	2012	2021	2029	rVV2	889330	1598472	5.68%	0.762%
17	14.824	2029	2040	2044	rVV	5781734	12436876	44.23%	5.929%
18	14.865	2044	2047	2052	rVV	255540	393753	1.40%	0.188%
19	14.930	2052	2058	2068	rVB	280067	679060	2.41%	0.324%
20	15.042	2068	2077	2081	rBV2	422396	739964	2.63%	0.353%
21	15.147	2086	2095	2100	rVV	3967893	8245866	29.33%	3.931%
22	15.200	2100	2104	2113	rVB	351108	556913	1.98%	0.265%
23	15.341	2119	2128	2132	rBV2	262046	499754	1.78%	0.238%
24	15.394	2132	2137	2148	rVB	303224	479467	1.71%	0.229%
25	15.512	2148	2157	2160	rBV	222217	466998	1.66%	0.223%
26	15.547	2160	2163	2169	rVB3	156800	275797	0.98%	0.131%
27	15.805	2197	2207	2212	rVB	5148151	10975316	39.03%	5.232%
28	15.876	2212	2219	2221	rVV	441633	722266	2.57%	0.344%
29	15.905	2221	2224	2227	rVV	689662	1105628	3.93%	0.527%
30	15.946	2227	2231	2235	rVV2	1238374	1987088	7.07%	0.947%
31	15.988	2235	2238	2241	rVV	297240	452731	1.61%	0.216%
32	16.029	2241	2245	2248	rVV	674301	1059092	3.77%	0.505%
33	16.070	2248	2252	2260	rVB	1305699	1993911	7.09%	0.951%
34	16.217	2260	2277	2285	rBV	1295685	3078517	10.95%	1.468%

LSC Area Percent Report

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Data File : BG020238.D
Acq On : 17 Dec 2015 2:08
Operator : UM/SJ
Sample : G4767-13
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N35

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	16.305	2289	2292	2297	rVV	258026	389814	1.39%	0.186%
36	16.563	2331	2336	2343	rVB	804499	1243211	4.42%	0.593%
37	16.775	2360	2372	2377	rBV2	1053356	2411734	8.58%	1.150%
38	16.828	2377	2381	2386	rVV2	432748	747282	2.66%	0.356%
39	16.875	2386	2389	2392	rVV2	165772	287081	1.02%	0.137%
40	16.928	2392	2398	2402	rVB2	439104	773389	2.75%	0.369%
41	17.045	2414	2418	2421	rVB2	303538	394436	1.40%	0.188%
42	17.127	2428	2432	2439	rVB4	142471	316783	1.13%	0.151%
43	17.204	2439	2445	2455	rVV3	501480	1520389	5.41%	0.725%
44	17.298	2455	2461	2471	rVB	1594445	2620097	9.32%	1.249%
45	17.574	2485	2508	2512	rBV	8602043	28118665	100.00%	13.404%
46	17.633	2514	2518	2523	rVB	2013032	2671415	9.50%	1.273%
47	17.879	2553	2560	2568	rBV	876874	1661103	5.91%	0.792%
48	17.991	2575	2579	2586	rBV2	372455	597119	2.12%	0.285%
49	18.056	2586	2590	2599	rVB3	177538	367696	1.31%	0.175%
50	18.197	2605	2614	2622	rVB	188168	447024	1.59%	0.213%
51	18.355	2635	2641	2645	rVV	1698574	2734130	9.72%	1.303%
52	18.402	2645	2649	2655	rVB	2153101	3361800	11.96%	1.603%
53	18.485	2655	2663	2668	rBV	777588	1365148	4.85%	0.651%
54	18.561	2668	2676	2685	rVV3	2727779	6183636	21.99%	2.948%
55	18.643	2685	2690	2694	rVV3	154870	262214	0.93%	0.125%
56	18.778	2710	2713	2718	rVV3	169746	295244	1.05%	0.141%
57	18.843	2718	2724	2729	rVV	1322150	1956747	6.96%	0.933%
58	19.084	2760	2765	2769	rVB2	296606	401972	1.43%	0.192%
59	19.131	2769	2773	2776	rBV	249598	299054	1.06%	0.143%
60	19.172	2776	2780	2783	rVB	235753	296869	1.06%	0.142%
61	19.254	2788	2794	2799	rBV2	502411	973089	3.46%	0.464%
62	19.319	2801	2805	2808	rBV3	215516	289669	1.03%	0.138%
63	19.554	2834	2845	2849	rBV	6512569	15290529	54.38%	7.289%
64	19.619	2853	2856	2860	rVB2	226755	305240	1.09%	0.146%
65	19.765	2876	2881	2886	rVV	345339	554358	1.97%	0.264%
66	19.912	2892	2906	2910	rBV3	5075058	14534972	51.69%	6.929%
67	19.953	2910	2913	2919	rVB	539987	737172	2.62%	0.351%
68	20.059	2920	2931	2936	rBV	622715	948123	3.37%	0.452%
69	20.206	2948	2956	2961	rBV3	540366	1441031	5.12%	0.687%
70	20.259	2961	2965	2972	rVB	213986	277909	0.99%	0.132%
71	20.329	2972	2977	2979	rBV	320603	530945	1.89%	0.253%

LSC Area Percent Report

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Data File : BG020238.D
Acq On : 17 Dec 2015 2:08
Operator : UM/SJ
Sample : G4767-13
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N35

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	20.377	2980	2985	2989	rVB	1772483	2582683	9.18%	1.231%
73	20.476	2995	3002	3006	rBV	1939397	3018800	10.74%	1.439%
74	20.535	3006	3012	3015	rVV2	531128	1053629	3.75%	0.502%
75	20.565	3015	3017	3021	rVV	345841	403853	1.44%	0.193%
76	20.606	3021	3024	3029	rVB2	206768	307356	1.09%	0.147%
77	20.670	3030	3035	3038	rBV	296211	412097	1.47%	0.196%
78	20.711	3039	3042	3046	rVB2	233093	276242	0.98%	0.132%
79	20.894	3068	3073	3077	rBV	315786	442086	1.57%	0.211%
80	20.993	3087	3090	3095	rVB2	161314	290133	1.03%	0.138%
81	21.082	3101	3105	3111	rBV	228923	472049	1.68%	0.225%
82	21.140	3111	3115	3121	rVV4	143315	278123	0.99%	0.133%
83	21.322	3138	3146	3149	rBV	474833	772563	2.75%	0.368%
84	21.364	3149	3153	3157	rVV	490930	788669	2.80%	0.376%
85	21.416	3157	3162	3166	rVV2	387683	687236	2.44%	0.328%
86	21.604	3185	3194	3202	rBV	144880	375812	1.34%	0.179%
87	21.734	3205	3216	3222	rVV3	2105788	4618548	16.43%	2.202%
88	21.804	3223	3228	3238	rVB	1547145	2744535	9.76%	1.308%
89	21.951	3247	3253	3261	rBV	396939	692500	2.46%	0.330%
90	22.157	3282	3288	3295	rBV2	234661	444532	1.58%	0.212%
91	22.480	3335	3343	3349	rVV	237107	627034	2.23%	0.299%
92	22.809	3395	3399	3407	rVB4	172358	362468	1.29%	0.173%
93	22.897	3408	3414	3429	rVB5	105574	279454	0.99%	0.133%
94	23.984	3588	3599	3606	rBV	445911	1564040	5.56%	0.746%
95	24.713	3714	3723	3730	rBV2	181290	520984	1.85%	0.248%
96	24.789	3730	3736	3742	rVV2	127456	357969	1.27%	0.171%
97	24.860	3742	3748	3763	rVB	294555	875550	3.11%	0.417%
98	25.012	3763	3774	3782	rBV2	189511	617070	2.19%	0.294%
99	25.089	3782	3787	3801	rVB2	86162	272870	0.97%	0.130%
100	28.731	4395	4407	4431	rVB4	65159	375277	1.33%	0.179%

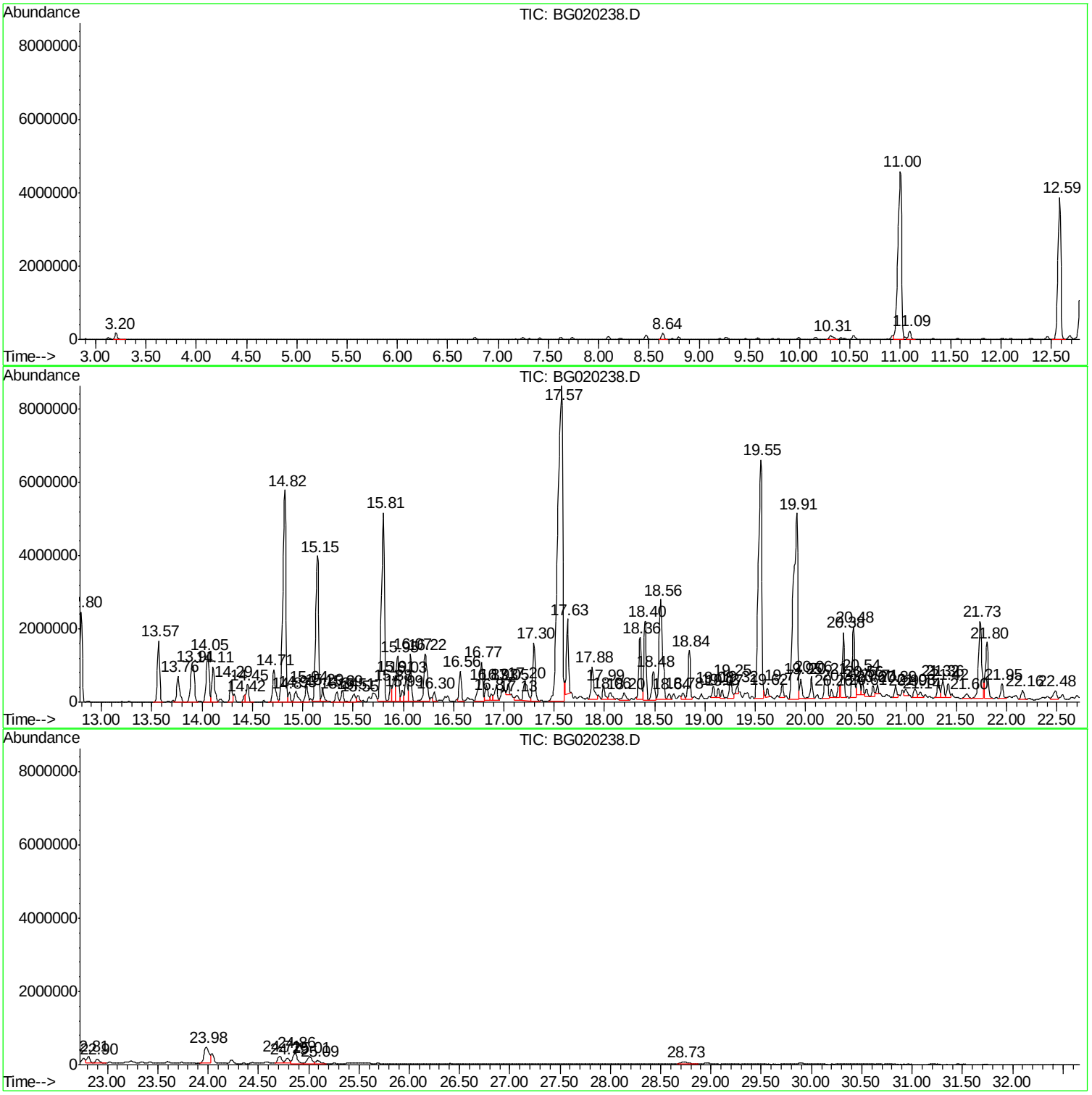
Sum of corrected areas: 209772844

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121715\
Data File : BG020238.D
Acq On : 17 Dec 2015 2:08
Operator : UM/SJ
Sample : G4767-13
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N35

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

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Quant Title : SVOA CALIBRATION

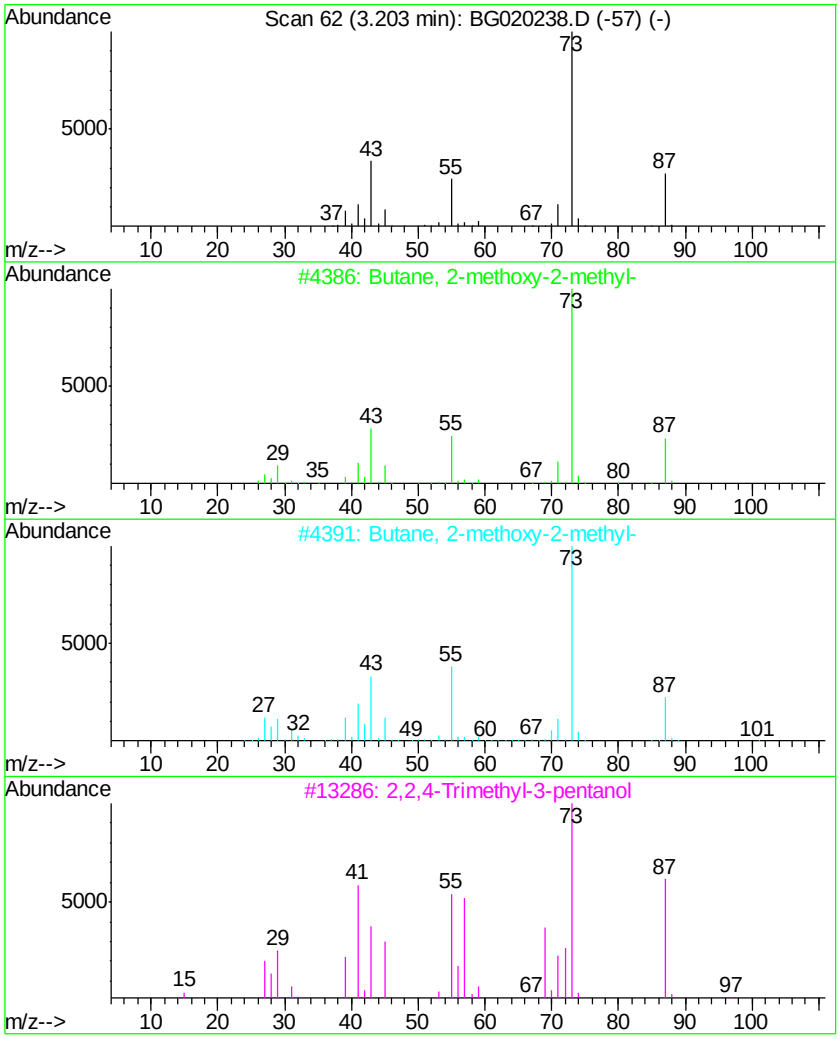
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

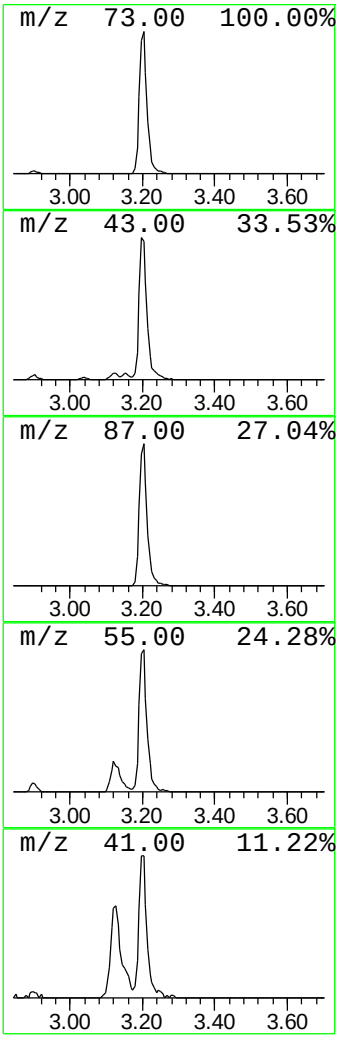
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.20	18.75 ng/ul	262290	1,4-Dichlorobenzene-d4	8.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	86
2	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
3	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	56
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17
5	Silane, tetramethyl-	88	C4H12Si	000075-76-3	9





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121715\
Data File : BG020238.D
Acq On : 17 Dec 2015 2:08
Operator : UM/SJ
Sample : G4767-13
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N35

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

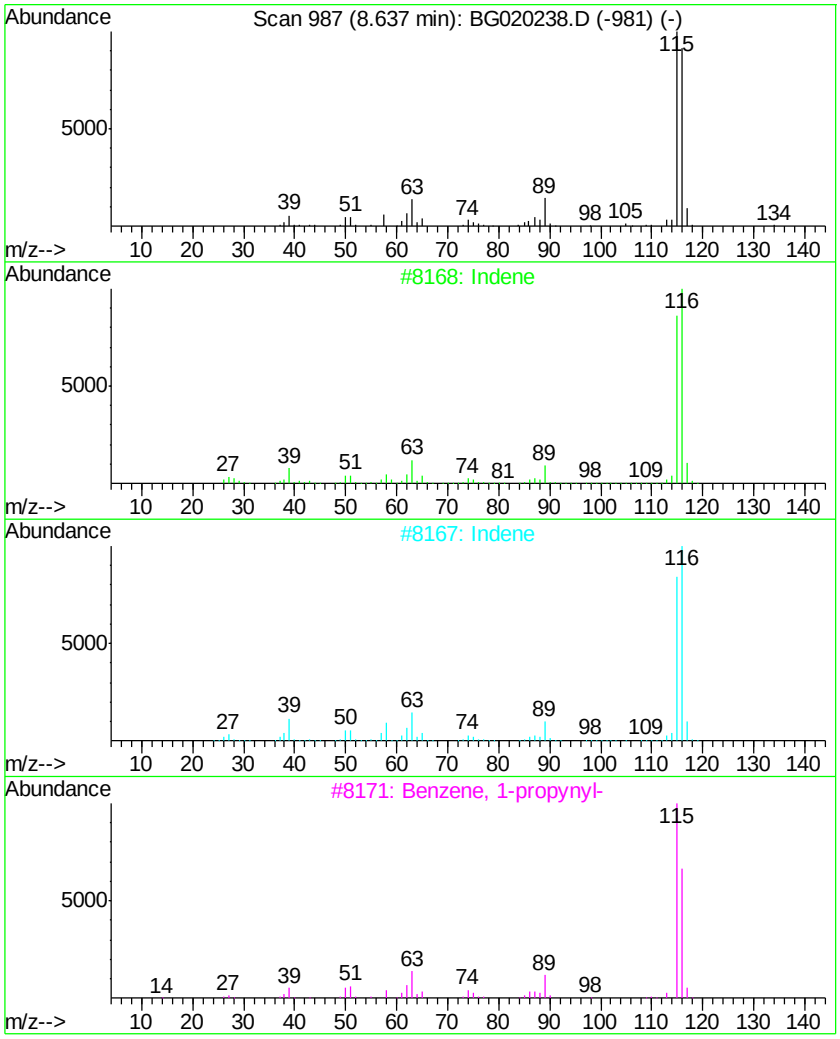
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

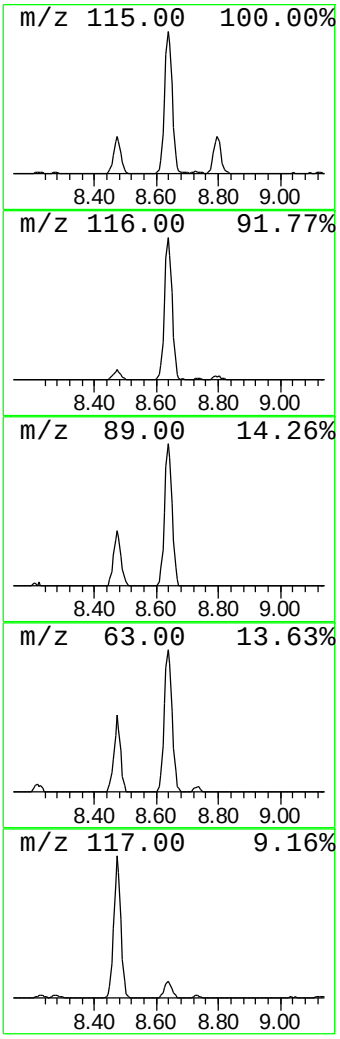
****

Peak Number 2 Indene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.64	20.00 ng/ul	279732	1,4-Dichlorobenzene-d4	8.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indene	116	C9H8	000095-13-6	97
2	Indene	116	C9H8	000095-13-6	95
3	Benzene, 1-propynyl-	116	C9H8	000673-32-5	94
4	Benzene, 1-propynyl-	116	C9H8	000673-32-5	91
5	Benzene, 1-propynyl-	116	C9H8	000673-32-5	91





Library Search Compound Report

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Instrument : BNA_G
ClientSampleId : D9N35

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

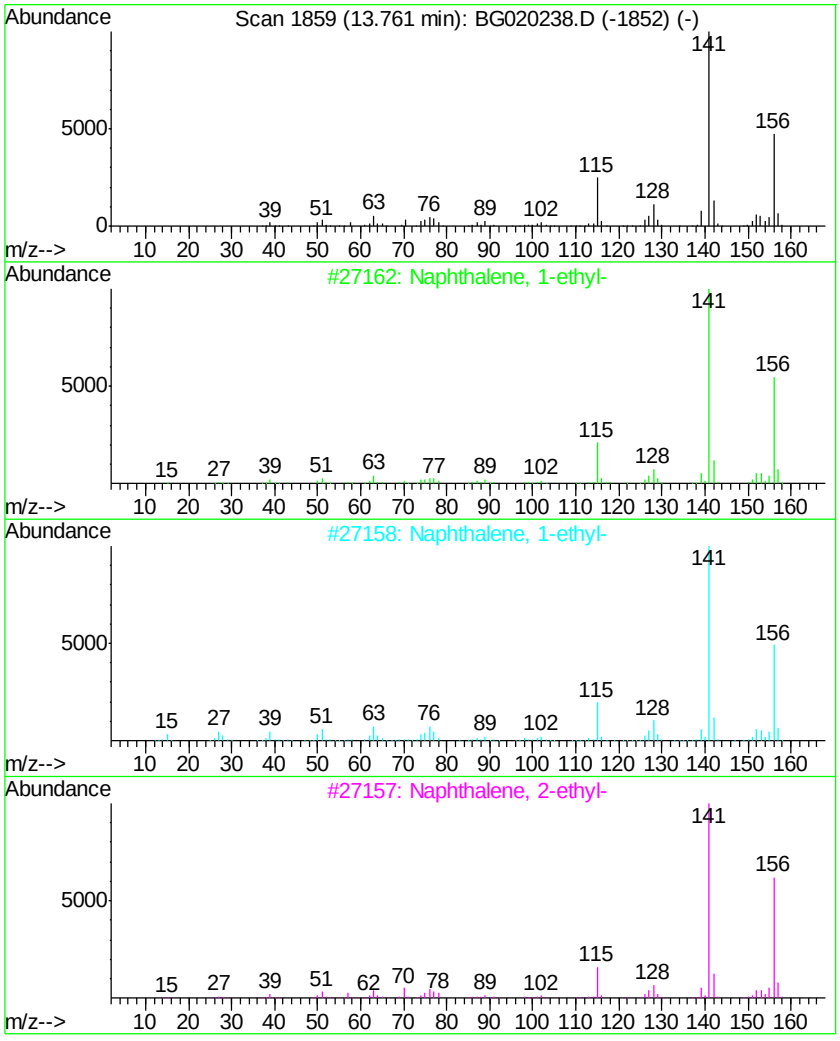
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

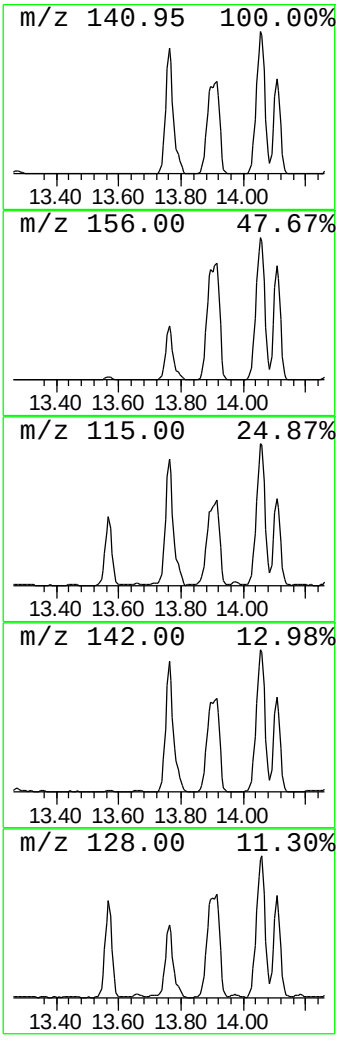
****

Peak Number 3 Naphthalene, 1-ethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.76	16.78 ng/ul	1341370	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	97
2	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	94
3	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	93
4	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	93
5	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	93





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121715\
Data File : BG020238.D
Acq On : 17 Dec 2015 2:08
Operator : UM/SJ
Sample : G4767-13
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N35

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

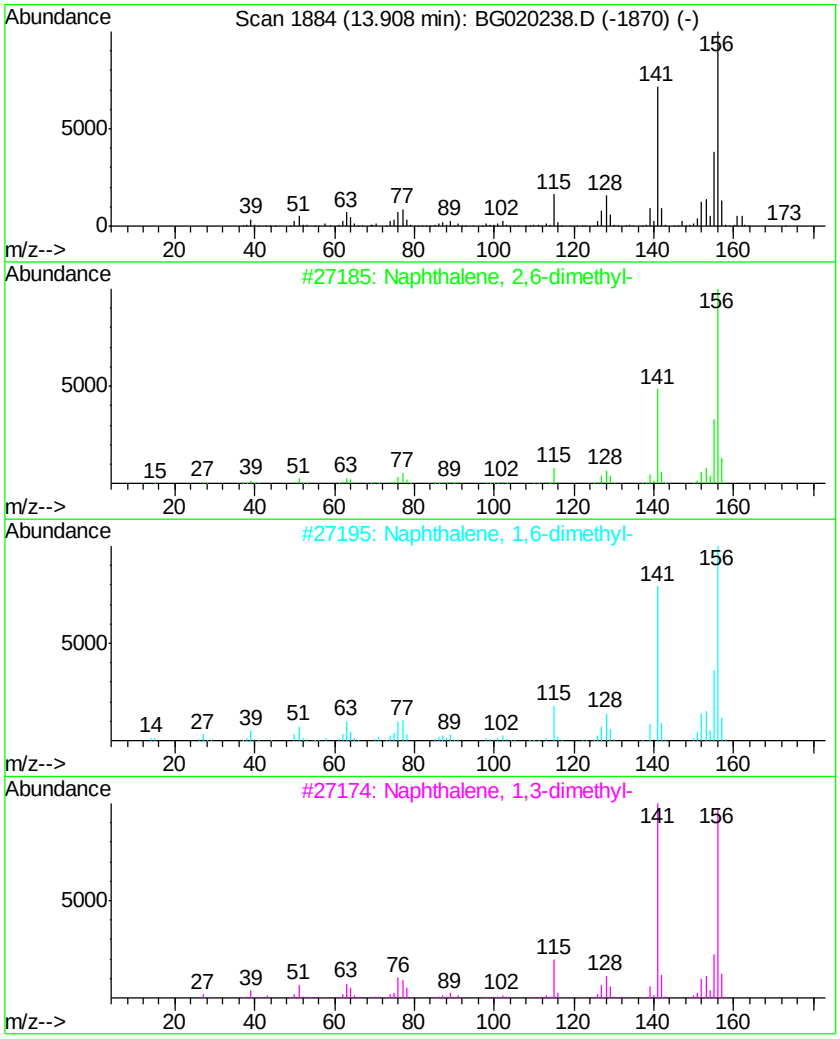
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

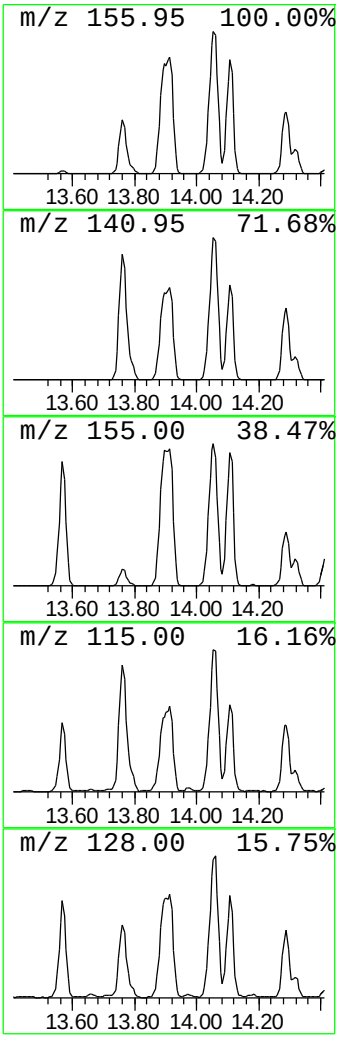
****

Peak Number 4 Naphthalene, 2,6-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.91	34.02 ng/ul	2718660	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
2	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
3	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
4	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96
5	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	96





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121715\
Data File : BG020238.D
Acq On : 17 Dec 2015 2:08
Operator : UM/SJ
Sample : G4767-13
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N35

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

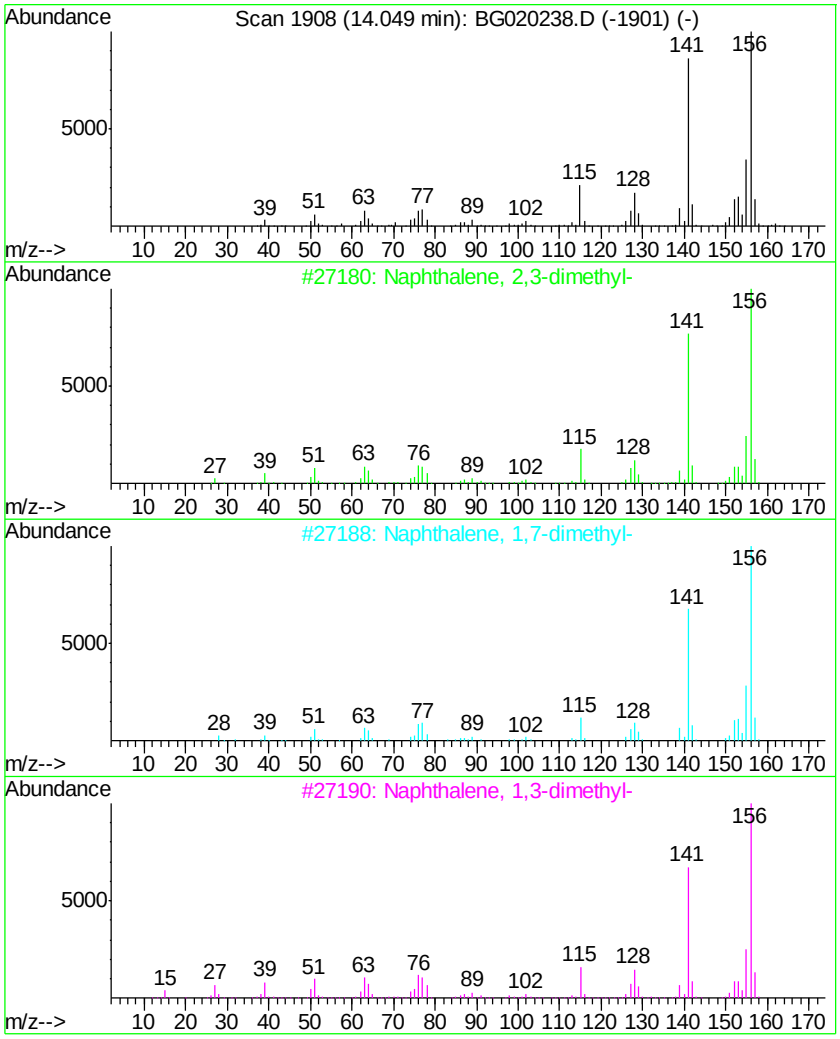
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

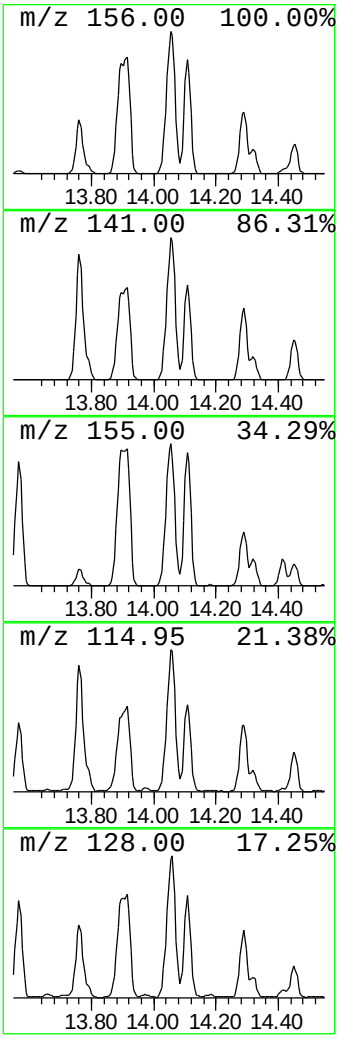
****

Peak Number 5 Naphthalene, 2,3-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.05	31.74 ng/ul	2536940	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
3	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97
4	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
5	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96





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Acq On : 17 Dec 2015 2:08
Operator : UM/SJ
Sample : G4767-13
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N35

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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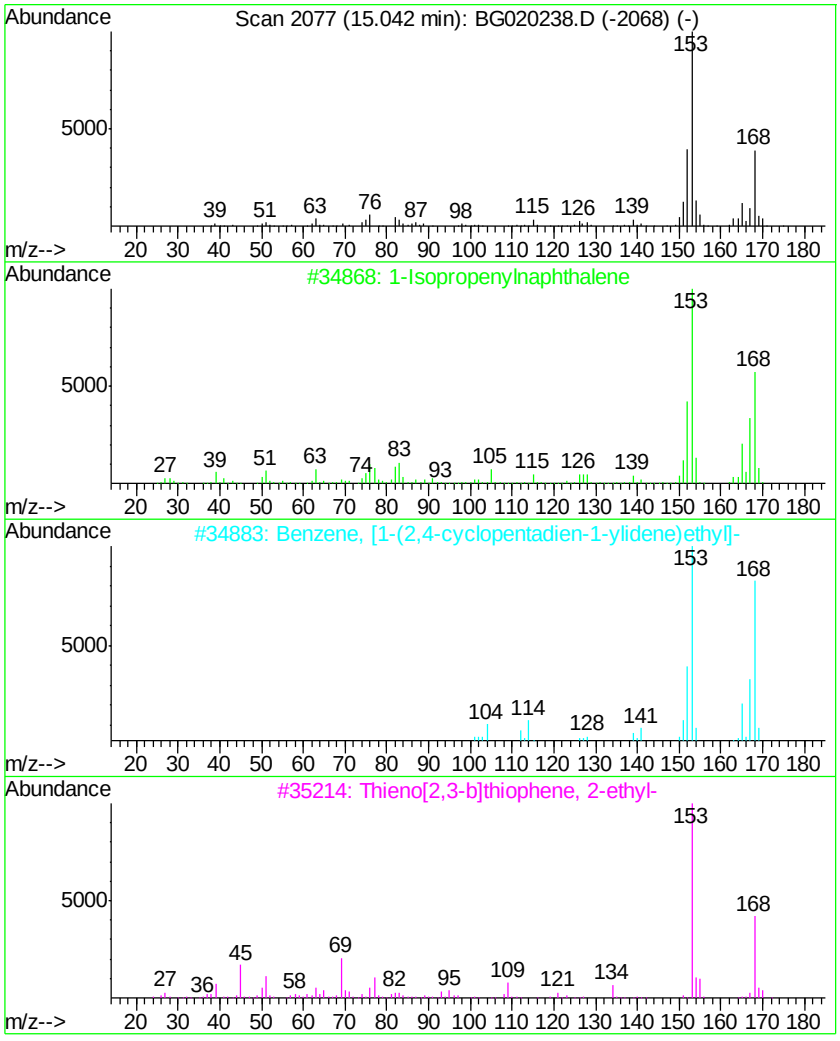
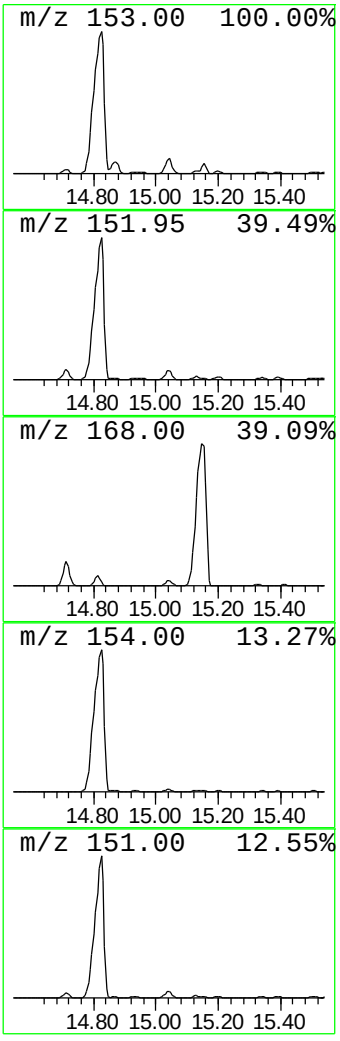
Peak Number 7 1-Isopropenylnaphthalene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.04	9.26 ng/ul	739964	Acenaphthene-d10	14.73

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-(2,3,4-trihydroxyphe...	168	C8H8O4	000528-21-2	47
5	Ethanone, 1-(2,4,6-trihydroxyphe...	168	C8H8O4	000480-66-0	47





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Sample : G4767-13
Misc :
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Instrument : BNA_G
ClientSampleId : D9N35

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Quant Title : SVOA CALIBRATION

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

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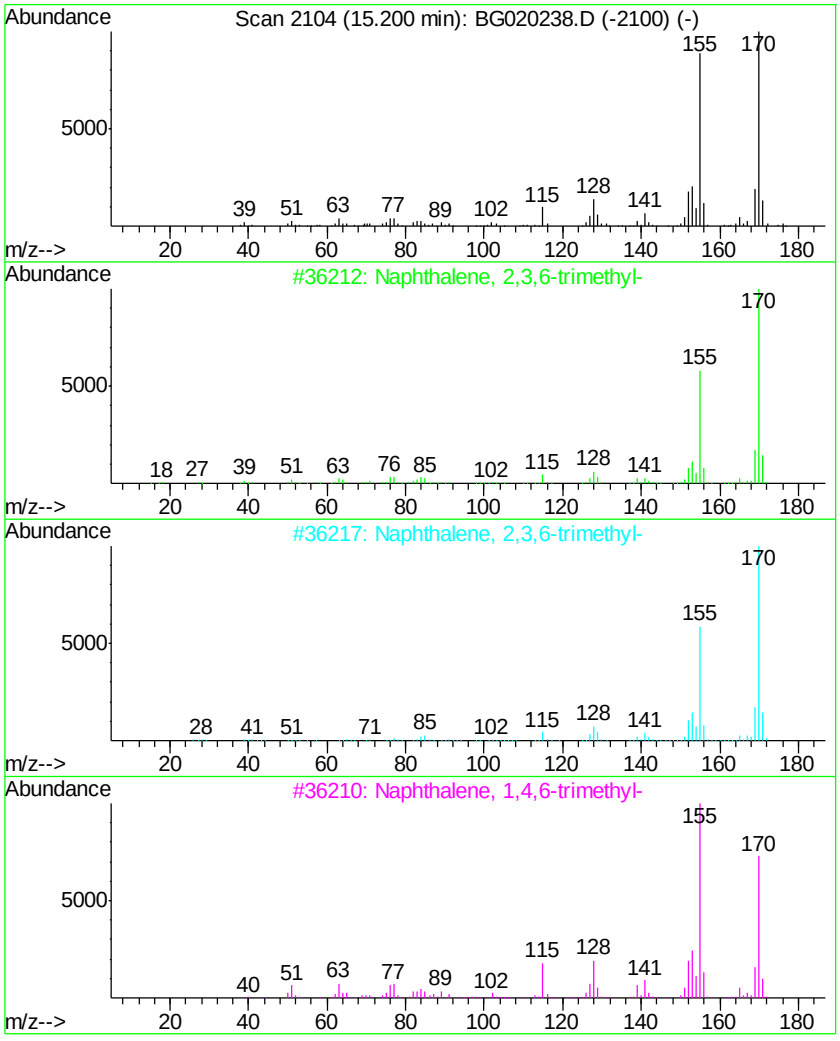
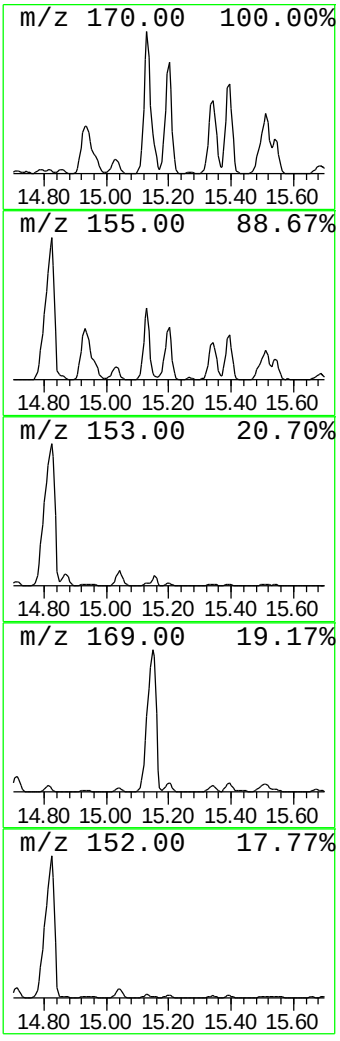
Peak Number 8 Naphthalene, 2,3,6-trimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.20	6.97 ng/ul	556913	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	97
2	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	96
3	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	95
4	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	95
5	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	95





Library Search Compound Report

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ClientSampleId : D9N35

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Quant Title : SVOA CALIBRATION

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

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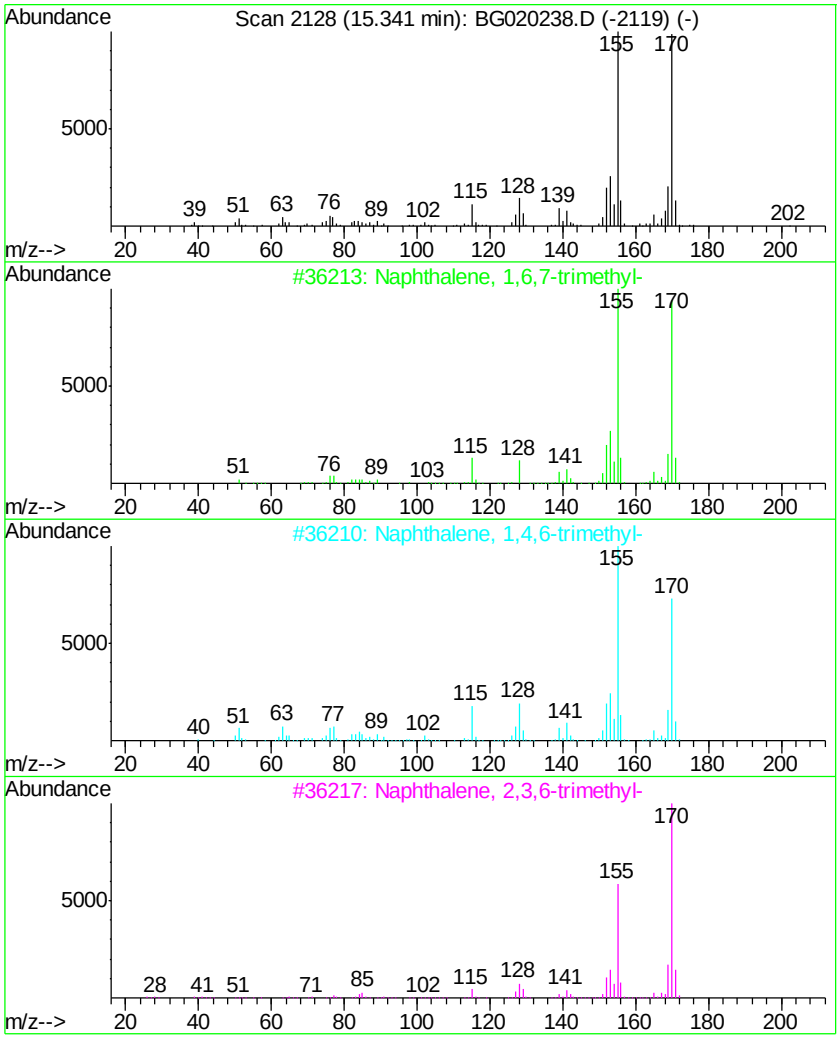
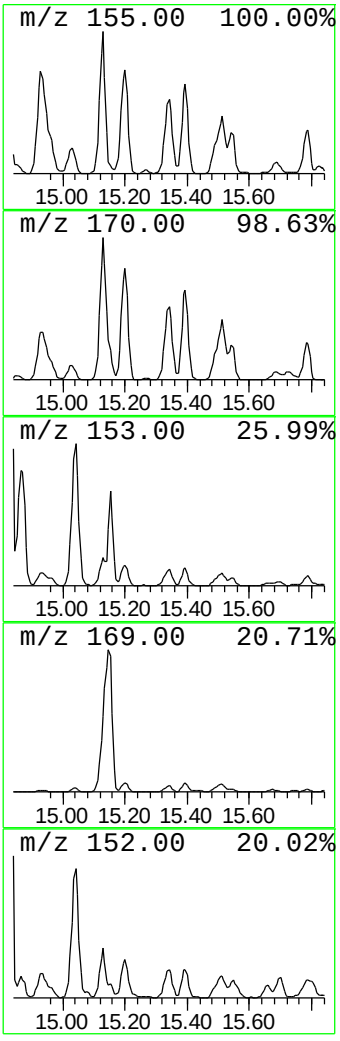
Peak Number 9 Naphthalene, 1,6,7-trimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.34	6.25 ng/ul	499754	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	98
2	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	97
3	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	97
4	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	97
5	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	96





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Sample : G4767-13
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N35

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Quant Title : SVOA CALIBRATION

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

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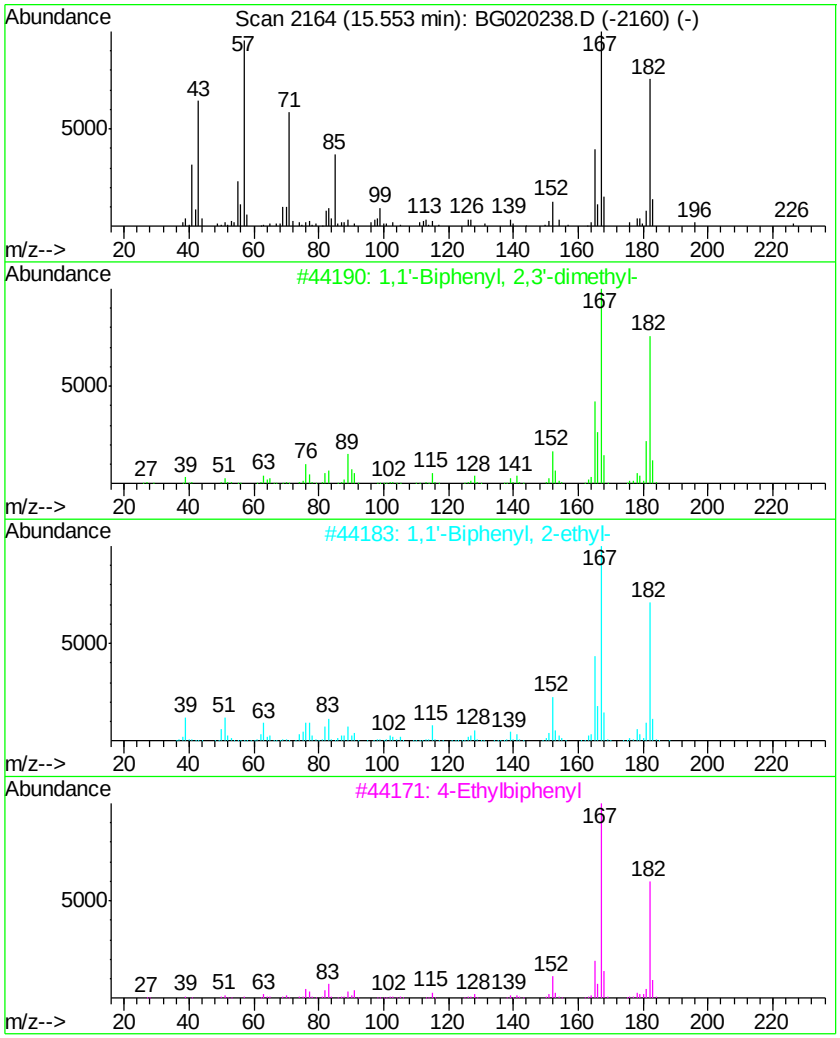
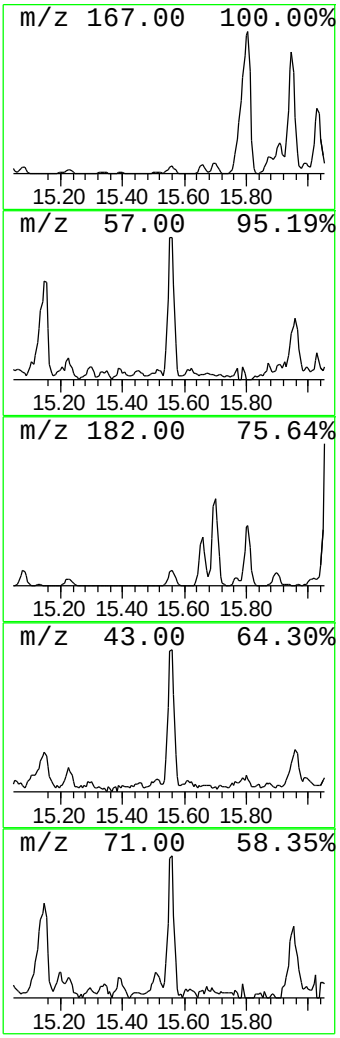
Peak Number 12 unknown-01 Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.55	3.45 ng/ul	275797	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2,3'-dimethyl-	182	C14H14	000611-43-8	46
2	1,1'-Biphenyl, 2-ethyl-	182	C14H14	001812-51-7	41
3	4-Ethylbiphenyl	182	C14H14	005707-44-8	38
4	Ethanone, 1-(5-chloro-2-hydroxyp...	170	C8H7ClO2	001450-74-4	30
5	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	30





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Sample : G4767-13
Misc :
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ClientSampleId : D9N35

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Quant Title : SVOA CALIBRATION

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

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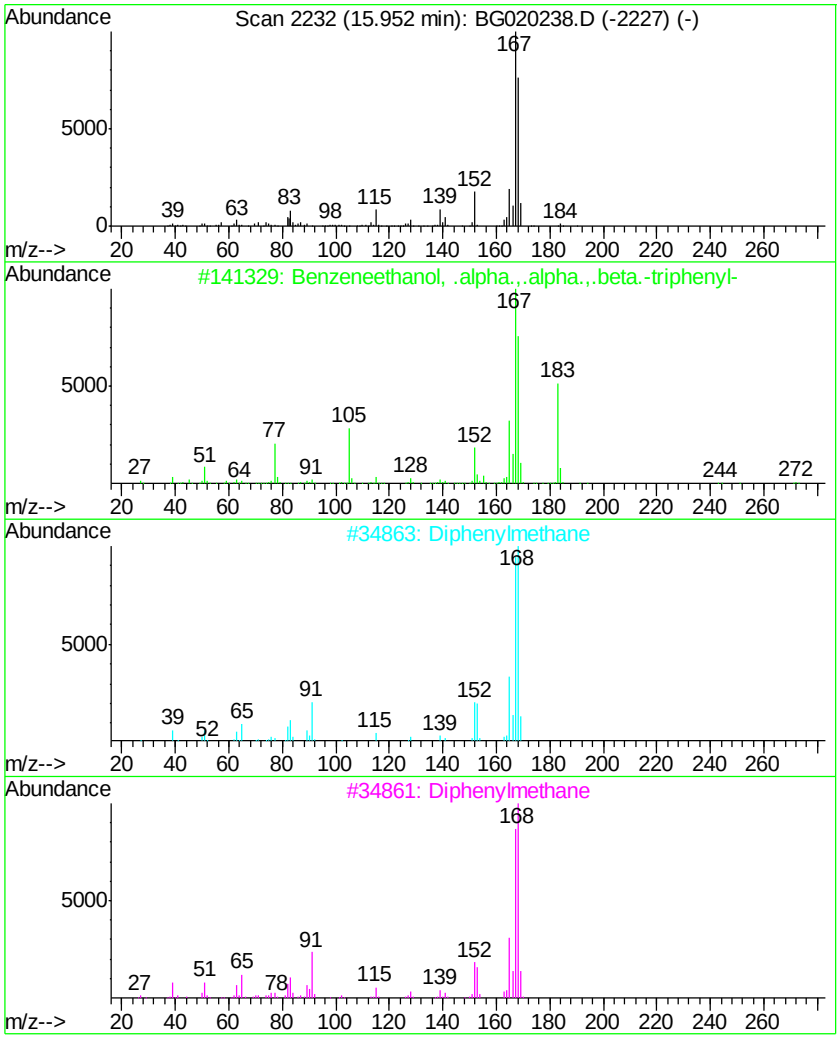
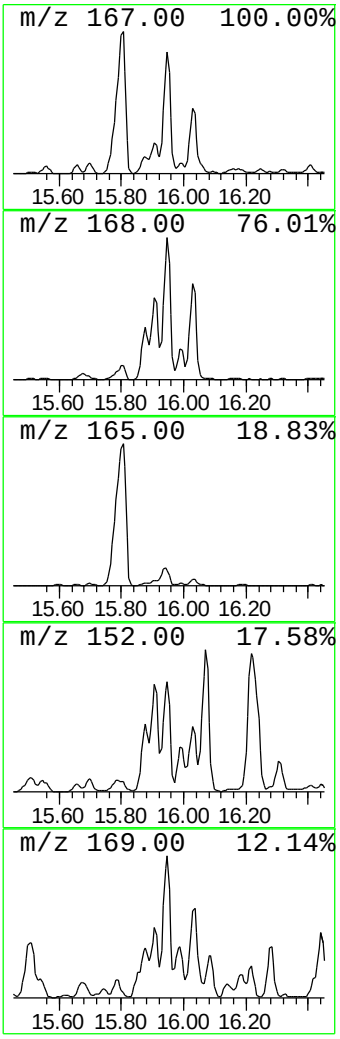
Peak Number 13 Benzeneethanol, .alpha.,.al... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.95	24.86 ng/ul	1987090	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzeneethanol, .alpha.,.alpha.,...	350	C26H22O	000981-24-8	90
2	Diphenylmethane	168	C13H12	000101-81-5	81
3	Diphenylmethane	168	C13H12	000101-81-5	72
4	Diphenylmethane	168	C13H12	000101-81-5	59
5	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	52





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Sample : G4767-13
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N35

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Quant Title : SVOA CALIBRATION

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

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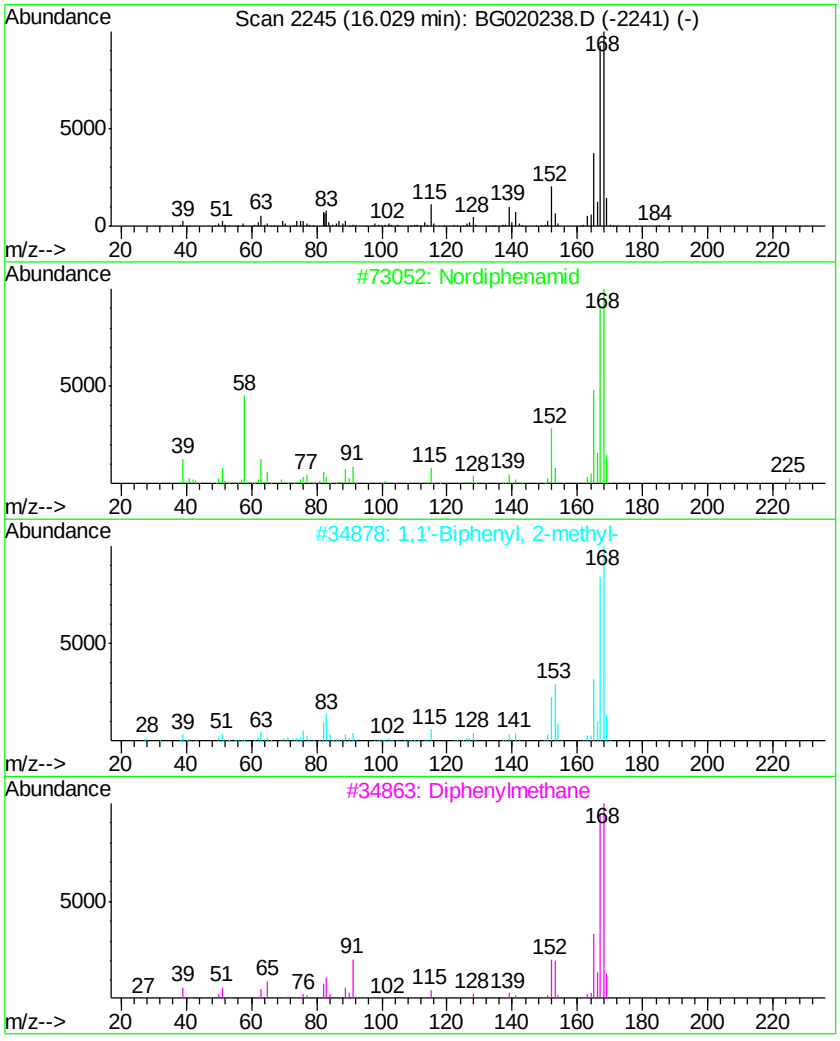
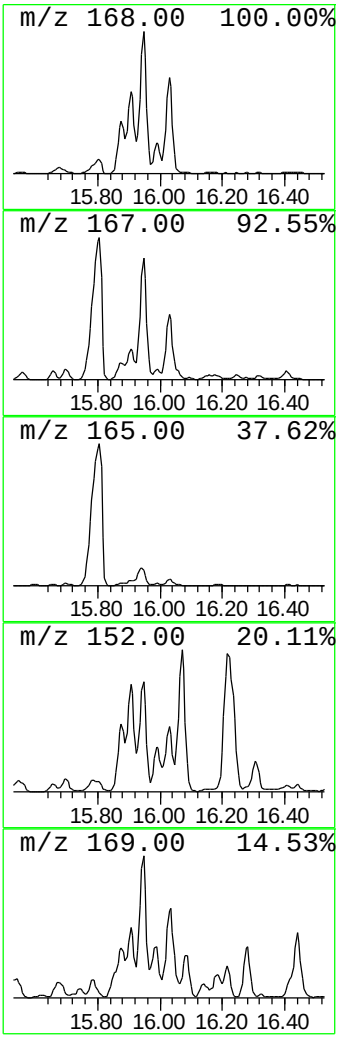
Peak Number 15 Nordiphenamid Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.03	13.25 ng/ul	1059090	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nordiphenamid	225	C15H15NO	000954-21-2	90
2	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	87
3	Diphenylmethane	168	C13H12	000101-81-5	83
4	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	81
5	Diphenylmethane	168	C13H12	000101-81-5	80





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Quant Title : SVOA CALIBRATION

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

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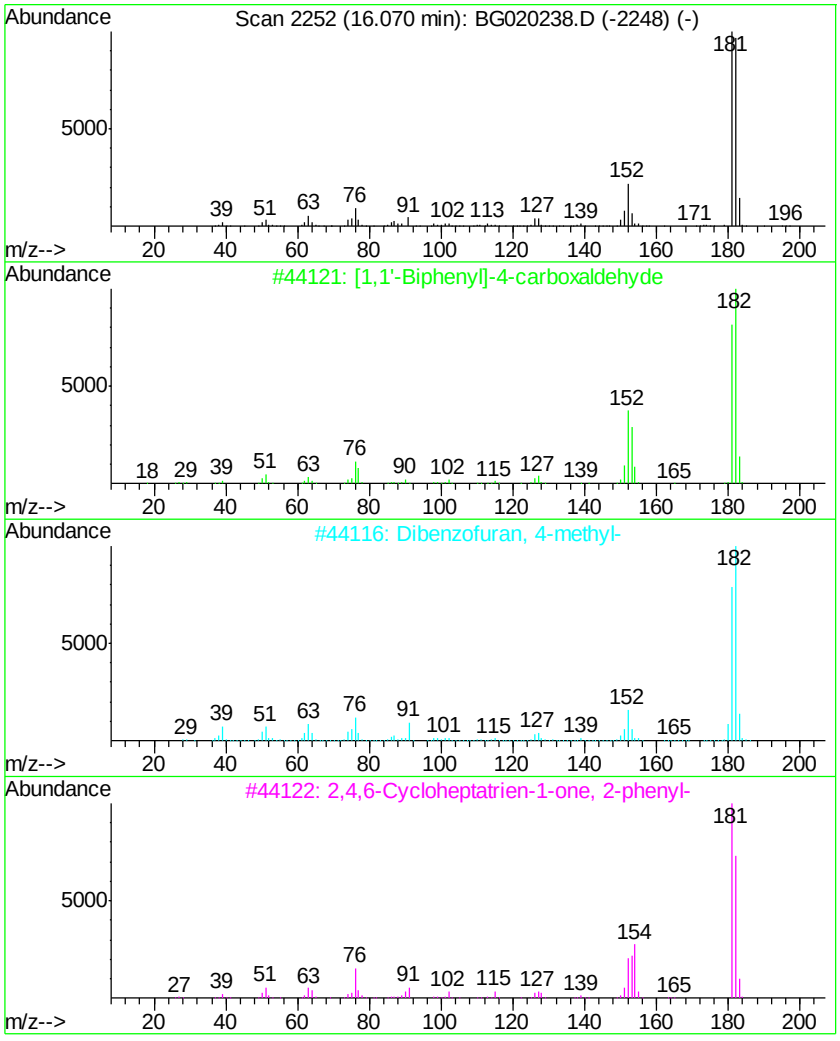
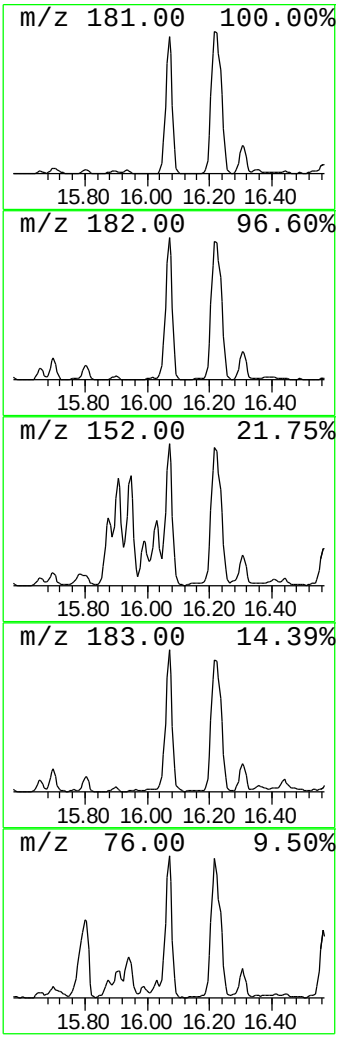
Peak Number 16 [1,1'-Biphenyl]-4-carboxald... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.07	24.95 ng/ul	1993910	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	91
2	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	90
3	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	78
4	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
5	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	56





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Instrument : BNA_G
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Quant Title : SVOA CALIBRATION

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

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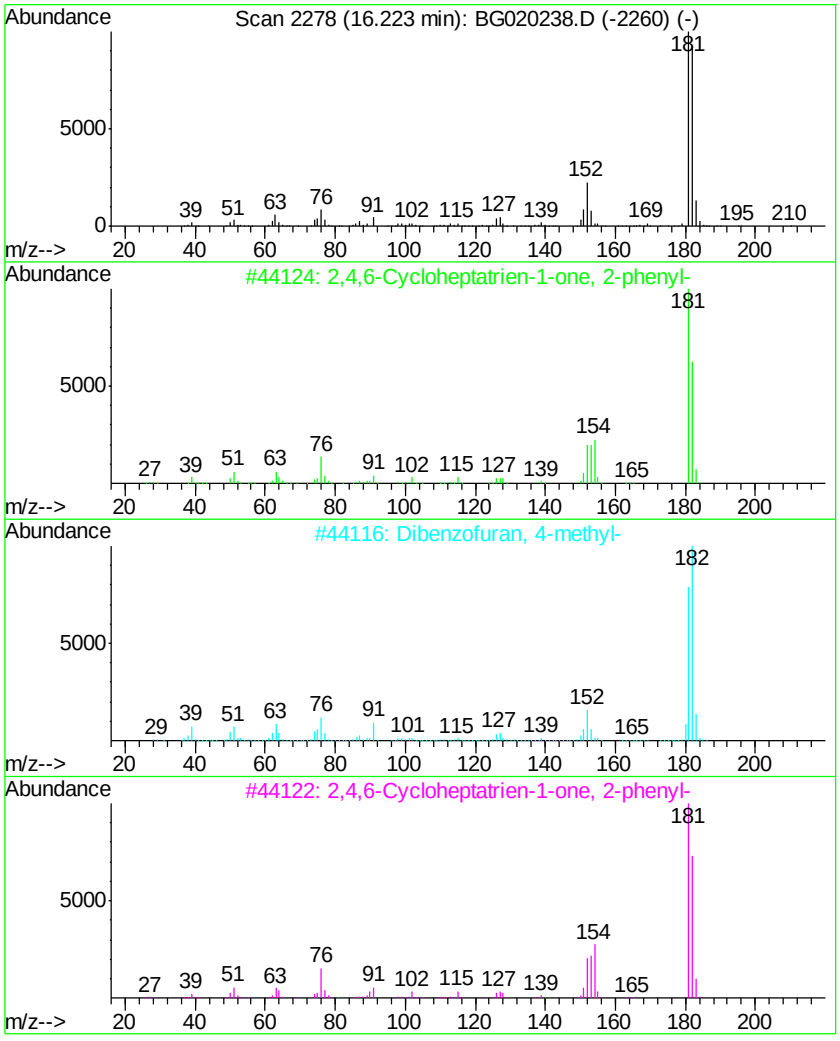
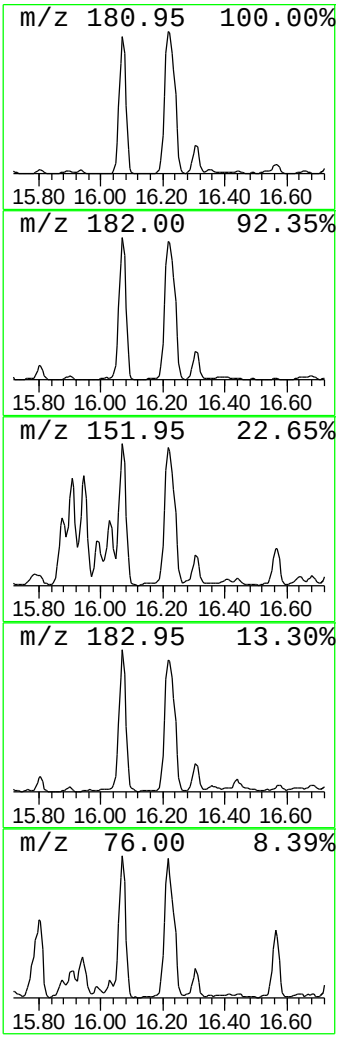
Peak Number 17 2,4,6-Cycloheptatrien-1-one... Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.22	2.19 ng/ul	3078520	Phenanthrene-d10	17.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	90
2	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	87
3	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	86
4	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	78
5	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78





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Quant Title : SVOA CALIBRATION

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

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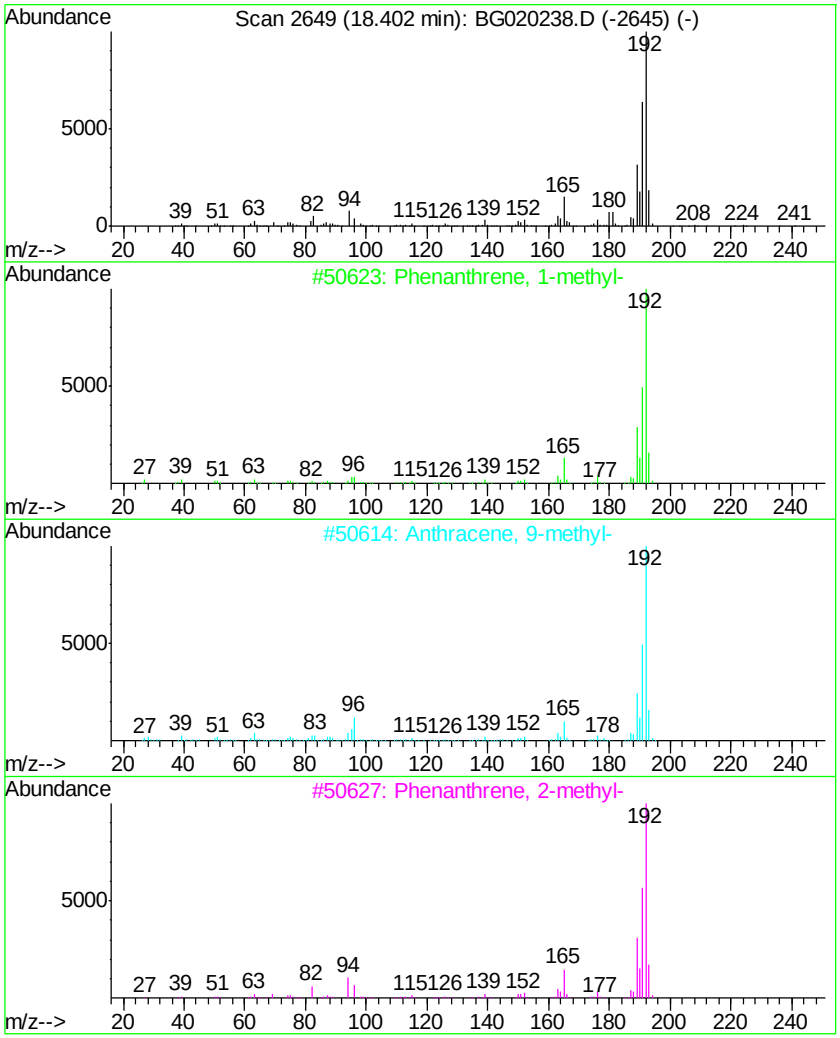
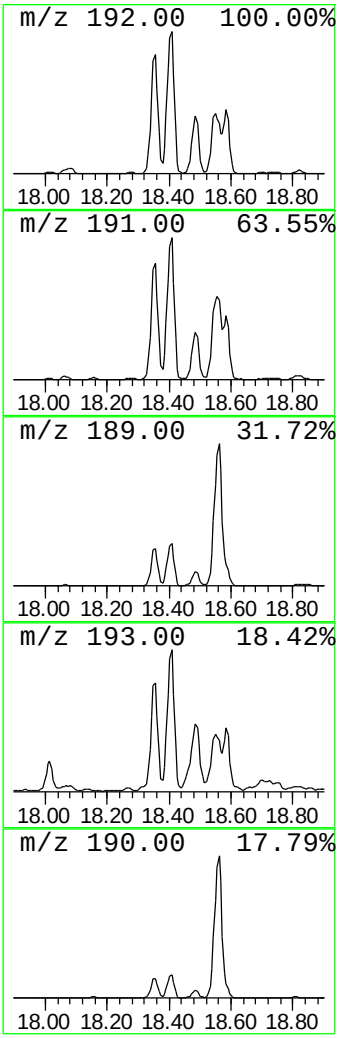
Peak Number 18 Phenanthrene, 1-methyl- Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.40	2.39 ng/ul	3361800	Phenanthrene-d10	17.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94





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Quant Title : SVOA CALIBRATION

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

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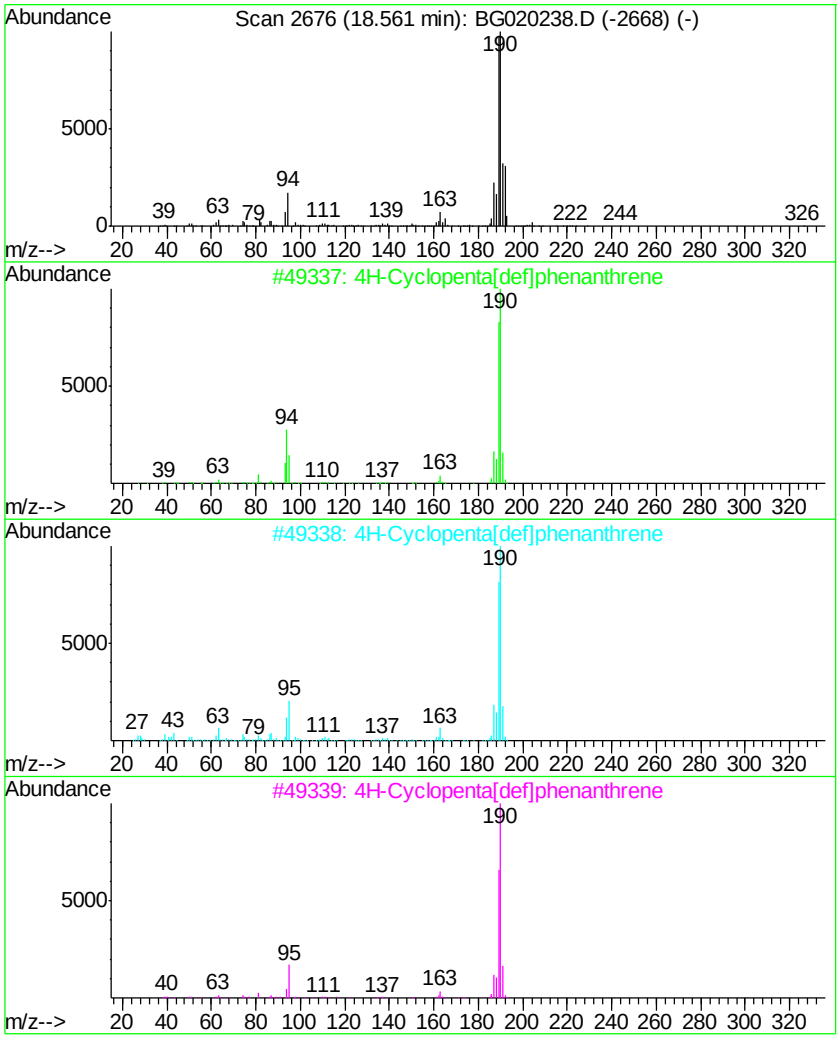
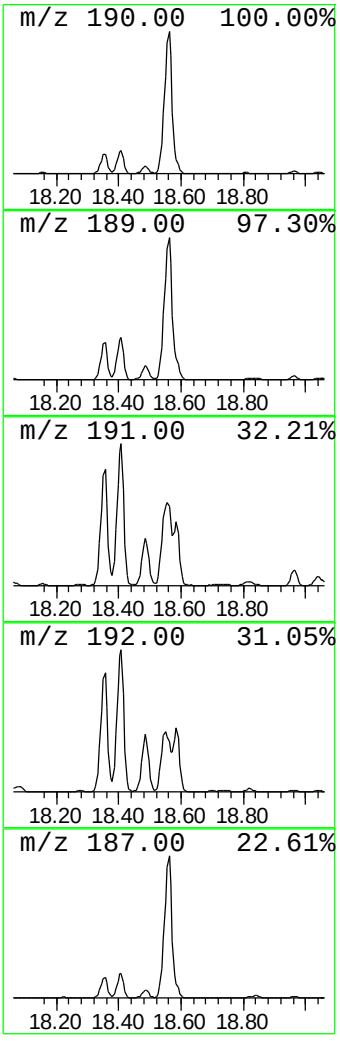
Peak Number 19 4H-Cyclopenta[def]phenanthrene Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.56	4.40 ng/ul	6183640	Phenanthrene-d10	17.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	83
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	76
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	72
4	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	64
5	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	64





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Quant Title : SVOA CALIBRATION

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

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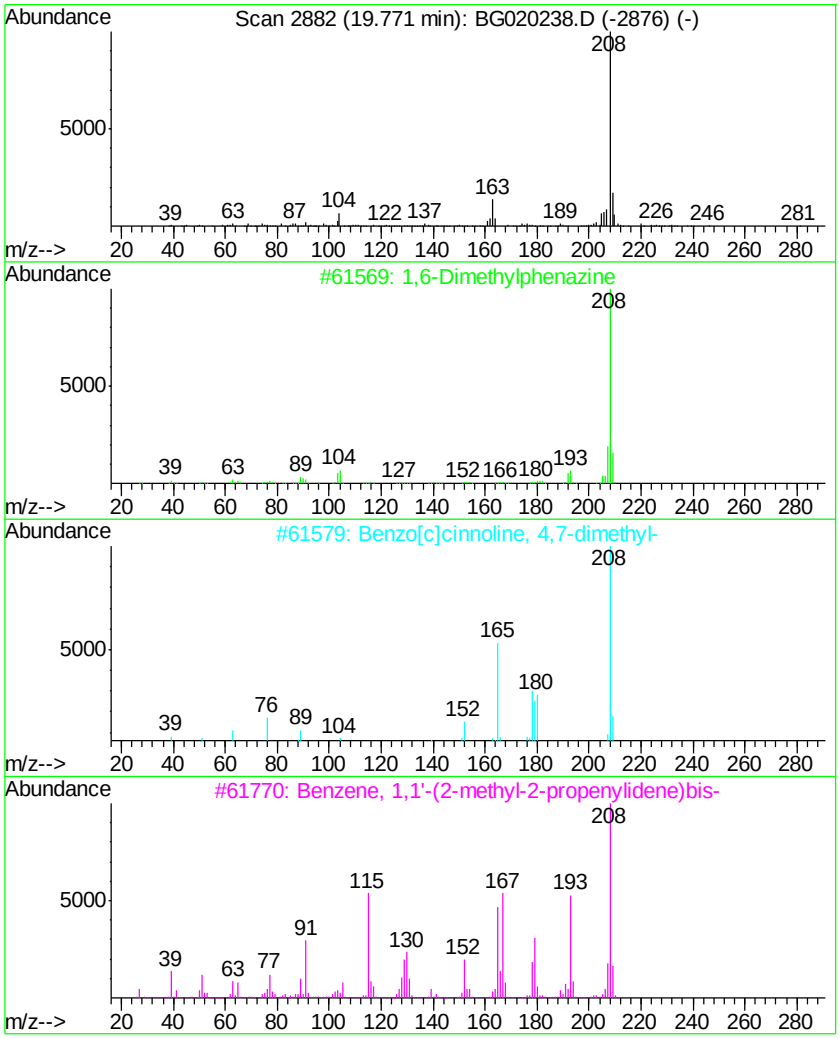
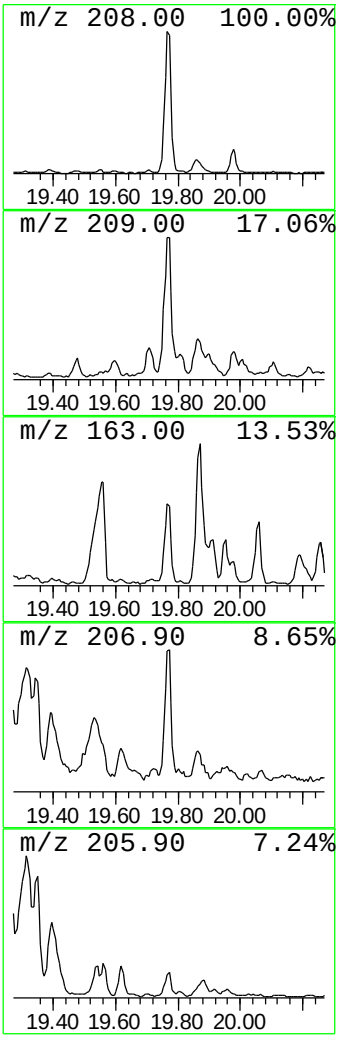
Peak Number 20 1,6-Dimethylphenazine Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.77	2.40 ng/ul	554358	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,6-Dimethylphenazine	208	C14H12N2	058718-43-7	64
2	Benzo[c]cinnoline, 4,7-dimethyl-	208	C14H12N2	020684-54-2	64
3	Benzene, 1,1'-(2-methyl-2-propen...	208	C16H16	070813-56-8	59
4	4,7-Dimethyl-1,10-phenanthroline	208	C14H12N2	003248-05-3	59
5	4,7-Dimethyl-1,10-phenanthroline	208	C14H12N2	003248-05-3	59





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Sample : G4767-13
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N35

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Quant Title : SVOA CALIBRATION

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

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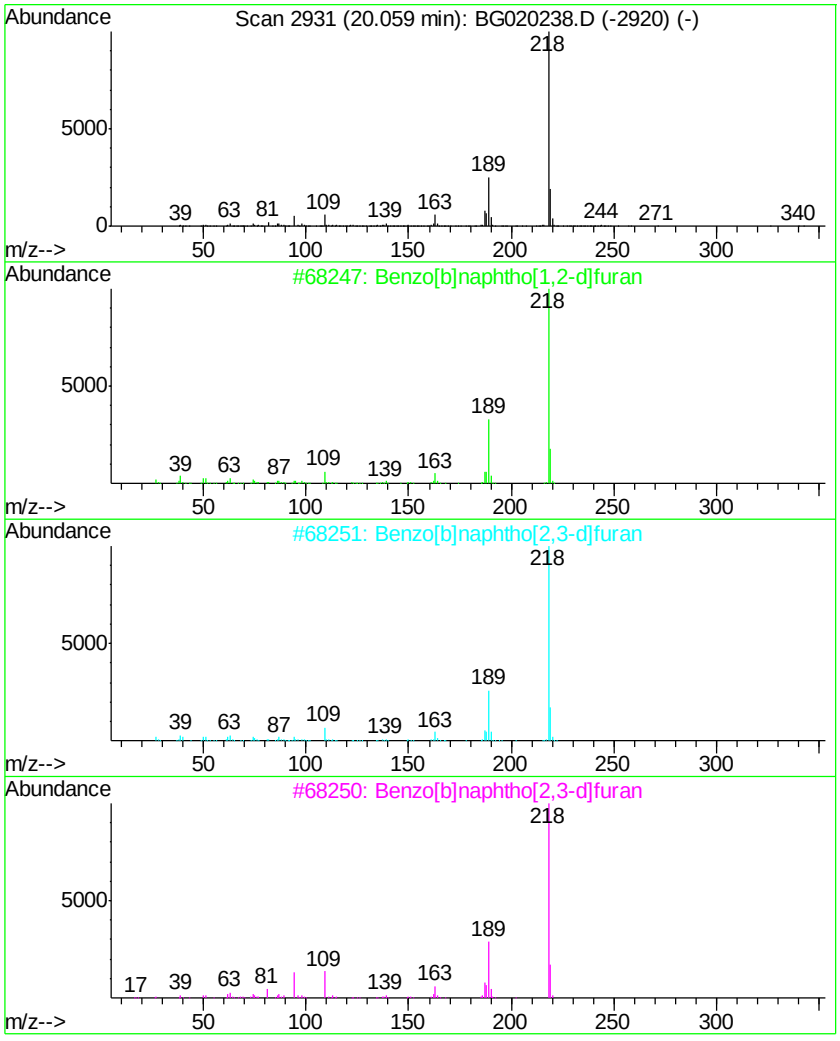
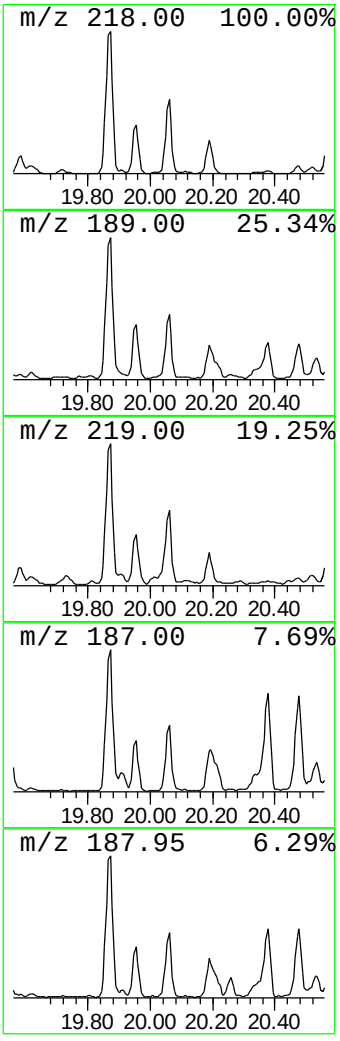
Peak Number 21 Benzo[b]naphtho[1,2-d]furan Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.06	4.11 ng/ul	948123	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[1,2-d]furan	218	C16H10O	000239-30-5	97
2	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	94
3	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	91
4	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	91
5	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	91





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Data File : BG020238.D
Acq On : 17 Dec 2015 2:08
Operator : UM/SJ
Sample : G4767-13
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N35

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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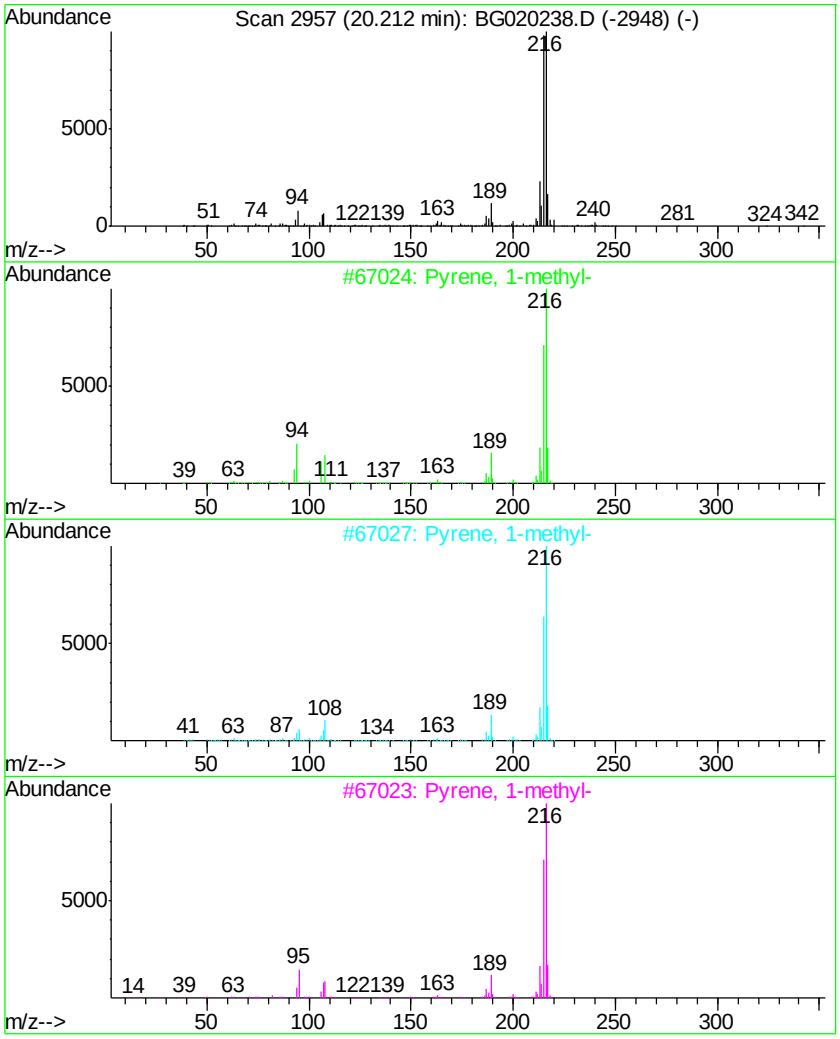
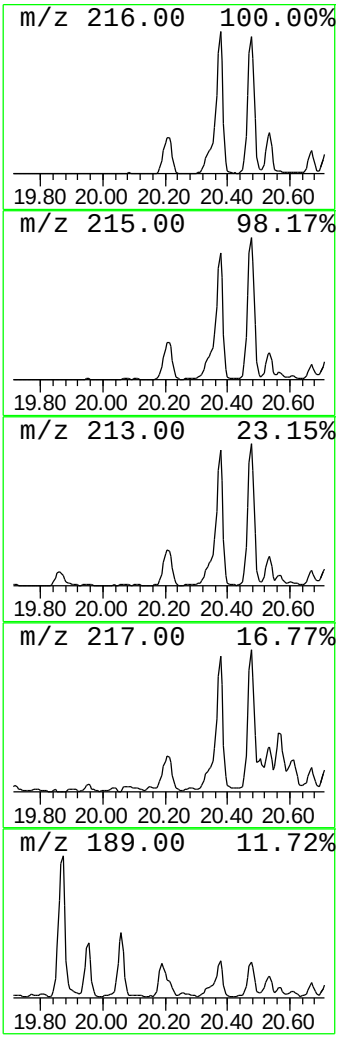
Peak Number 22 Pyrene, 1-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.21	6.24 ng/ul	1441030	Chrysene-d12	21.75

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	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90





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Acq On : 17 Dec 2015 2:08
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Sample : G4767-13
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N35

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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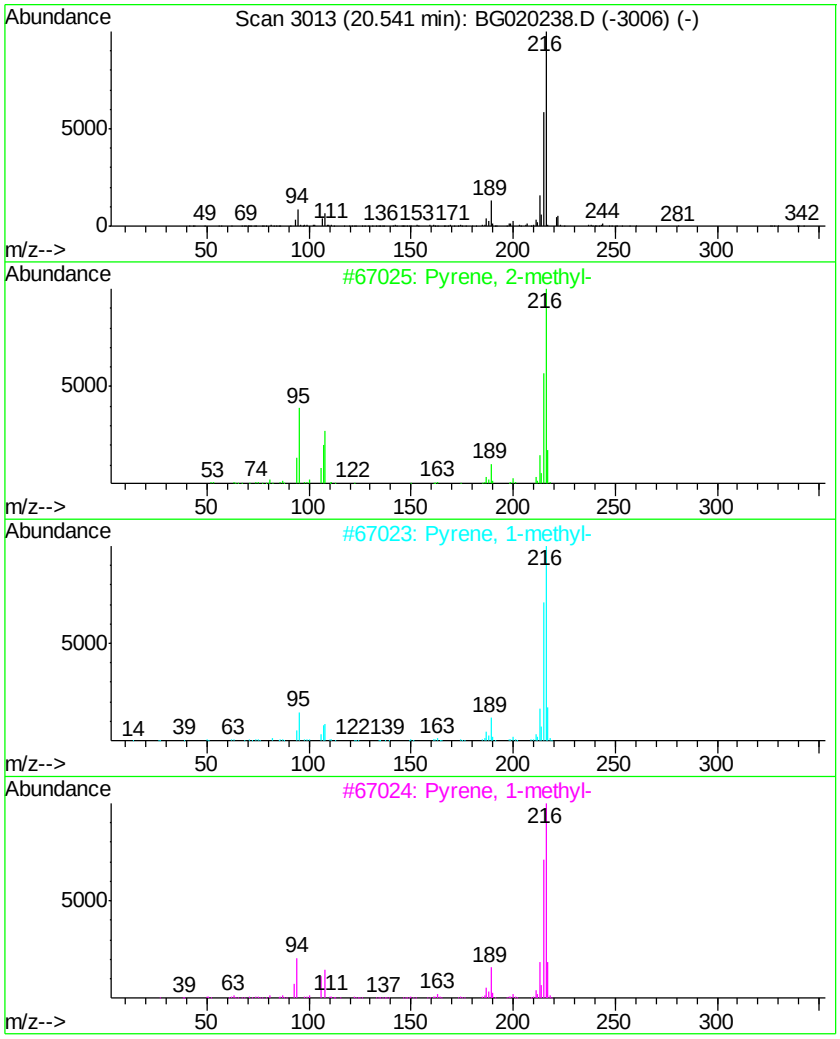
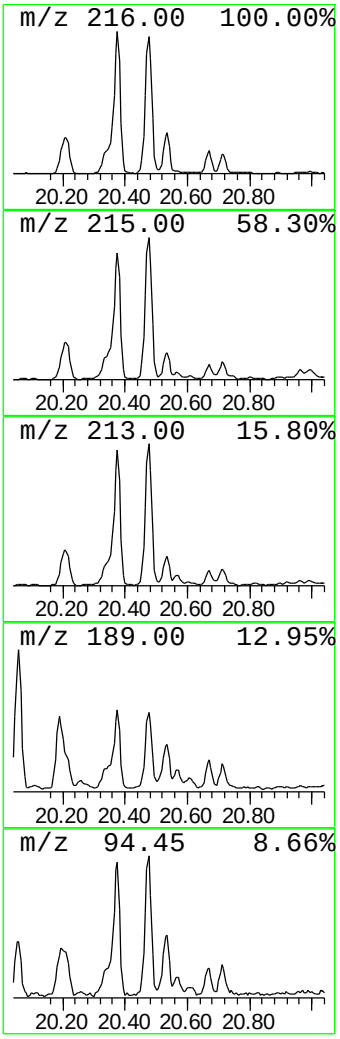
Peak Number 26 Pyrene, 2-methyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.54	4.56 ng/ul	1053630	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 2-methyl-	216	C17H12	003442-78-2	94
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90





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Data File : BG020238.D
Acq On : 17 Dec 2015 2:08
Operator : UM/SJ
Sample : G4767-13
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N35

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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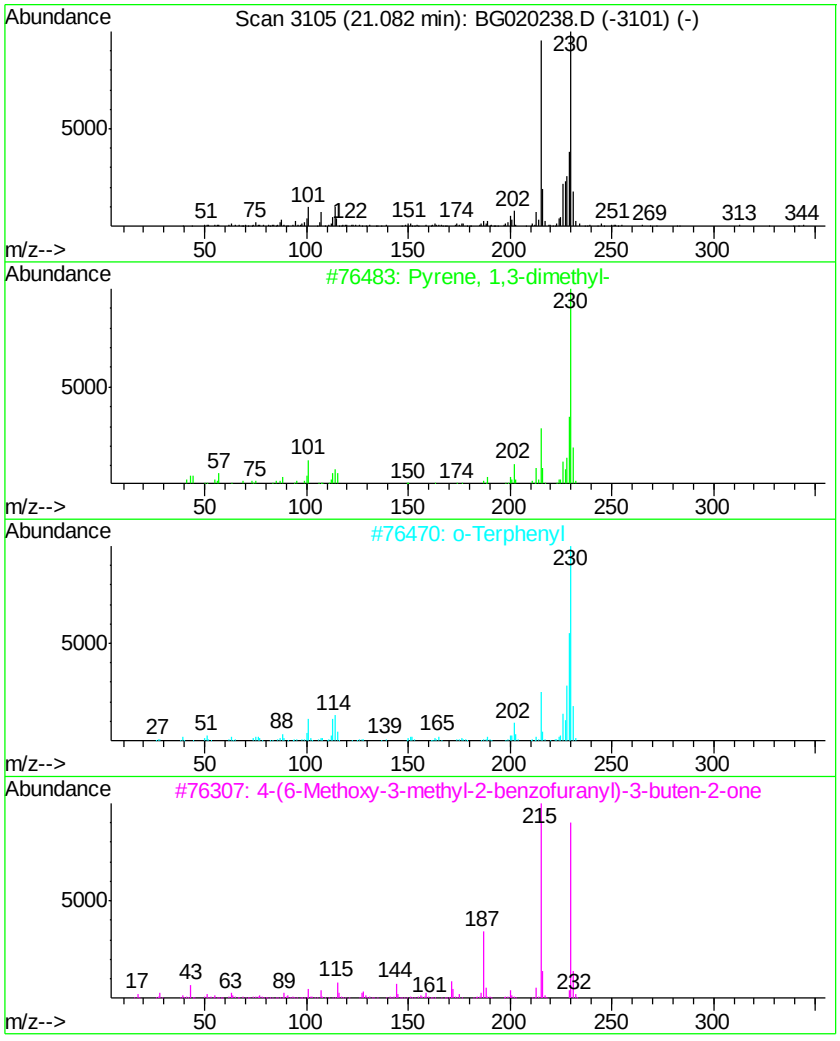
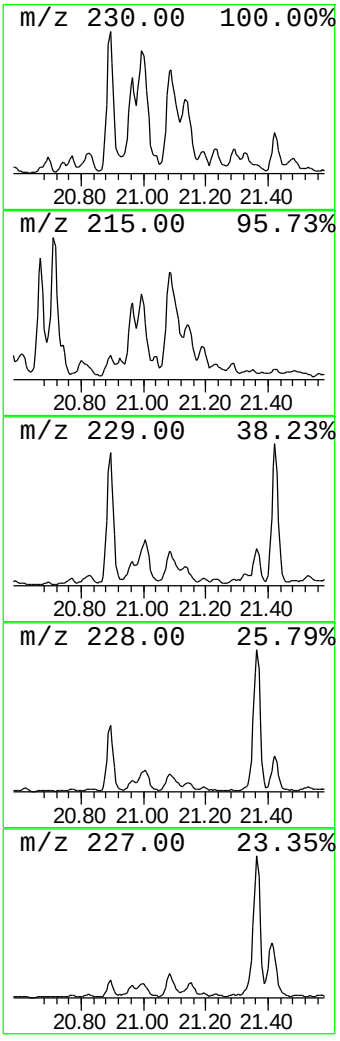
Peak Number 27 Pyrene, 1,3-dimethyl- Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.08	2.04 ng/ul	472049	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1,3-dimethyl-	230	C18H14	064401-21-4	90
2	o-Terphenyl	230	C18H14	000084-15-1	55
3	4-(6-Methoxy-3-methyl-2-benzofur...	230	C14H14O3	010444-37-8	53
4	5,6-Dihydrochrysene	230	C18H14	002091-92-1	50
5	2'-Acetonaphthone, 1',8'-dihydro...	230	C14H14O3	000838-03-9	49





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Acq On : 17 Dec 2015 2:08
Operator : UM/SJ
Sample : G4767-13
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N35

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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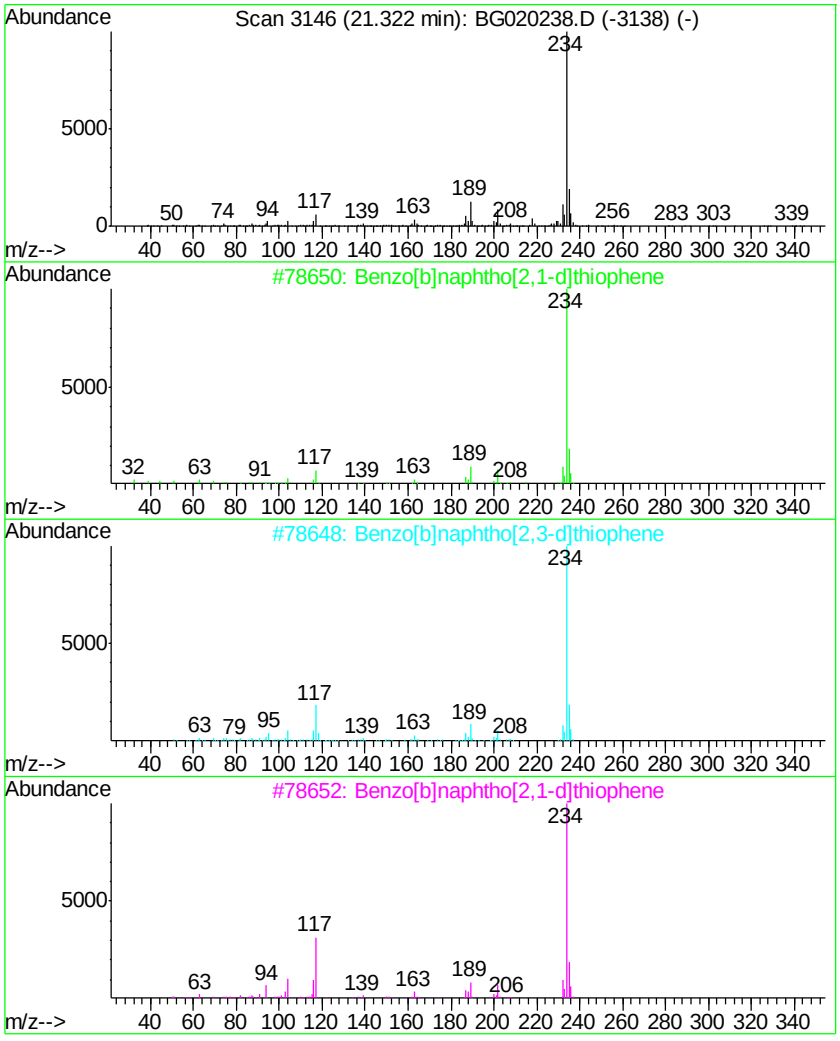
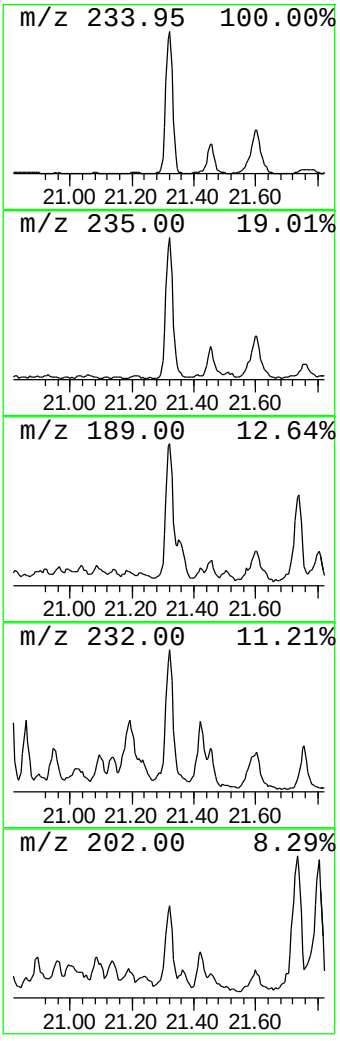
Peak Number 28 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.32	3.35 ng/ul	772563	Chrysene-d12	21.75

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[2,3-d]thiophene	234	C16H10S	000243-46-9	93
3	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	93
4	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	93
5	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	91





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Acq On : 17 Dec 2015 2:08
Operator : UM/SJ
Sample : G4767-13
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N35

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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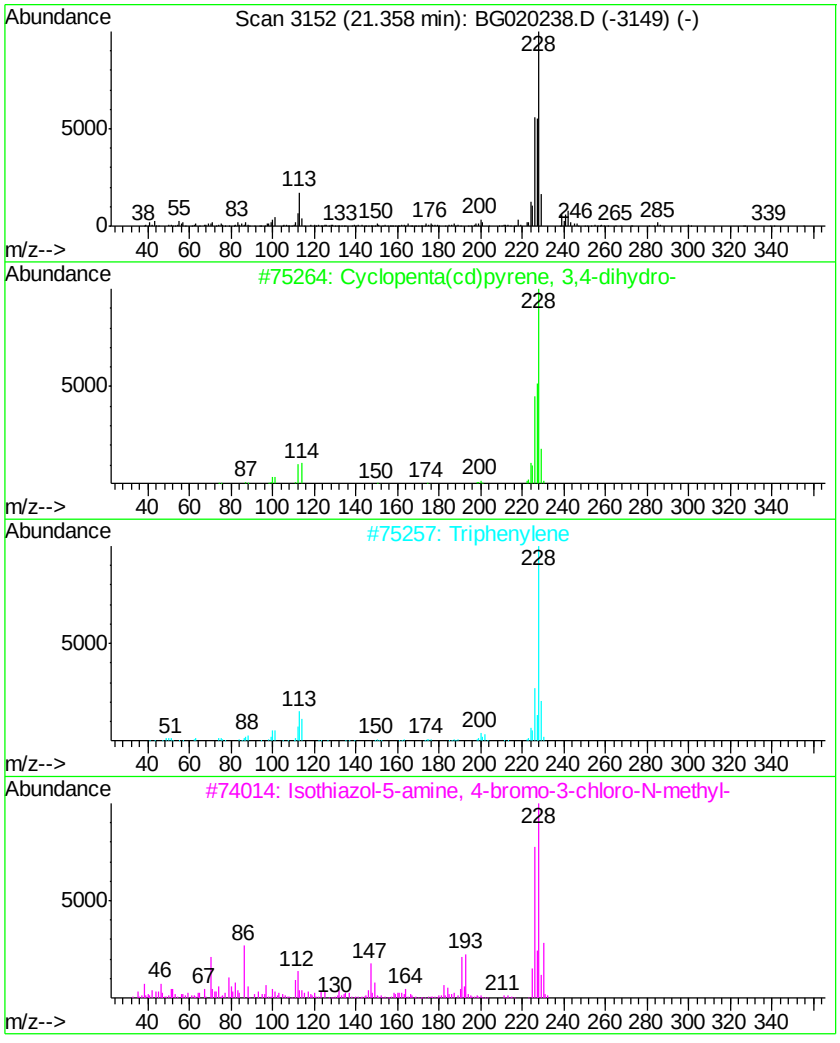
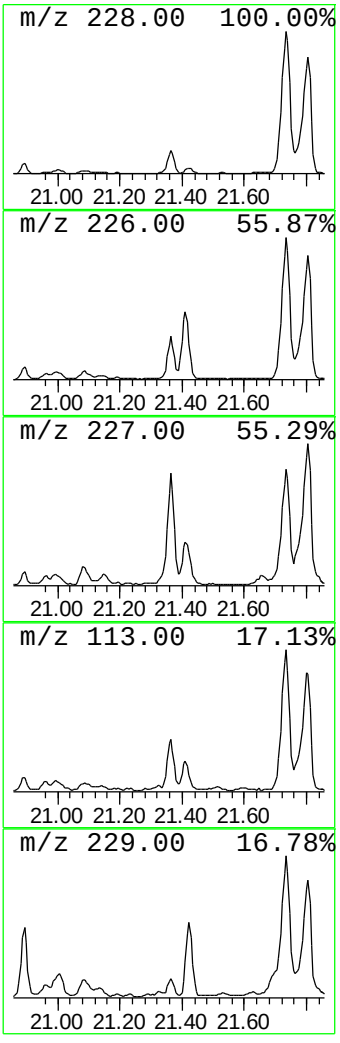
Peak Number 29 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.36	3.42 ng/ul	788669	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	83
2	Triphenylene	228	C18H12	000217-59-4	55
3	Isothiazol-5-amine, 4-bromo-3-ch...	226	C4H4BrClN2S	1000272-59-9	53
4	Benzo[c]phenanthrene	228	C18H12	000195-19-7	53
5	Benzo[c]phenanthrene	228	C18H12	000195-19-7	52





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Data File : BG020238.D
Acq On : 17 Dec 2015 2:08
Operator : UM/SJ
Sample : G4767-13
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N35

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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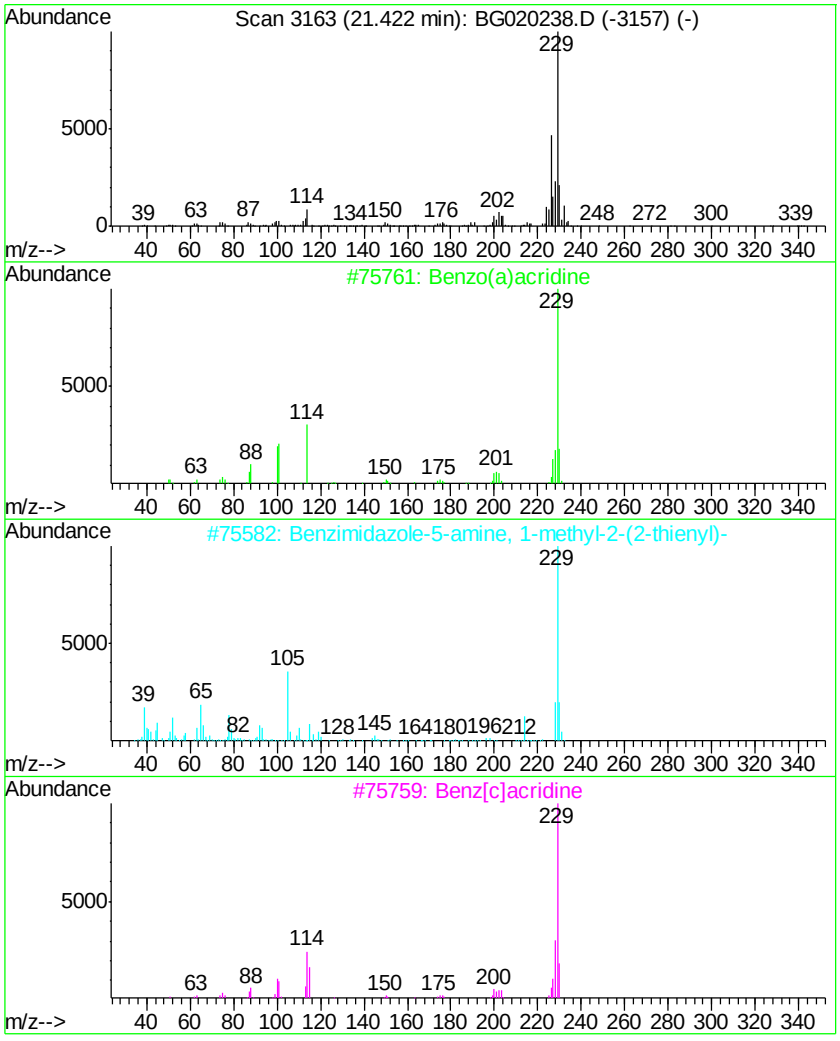
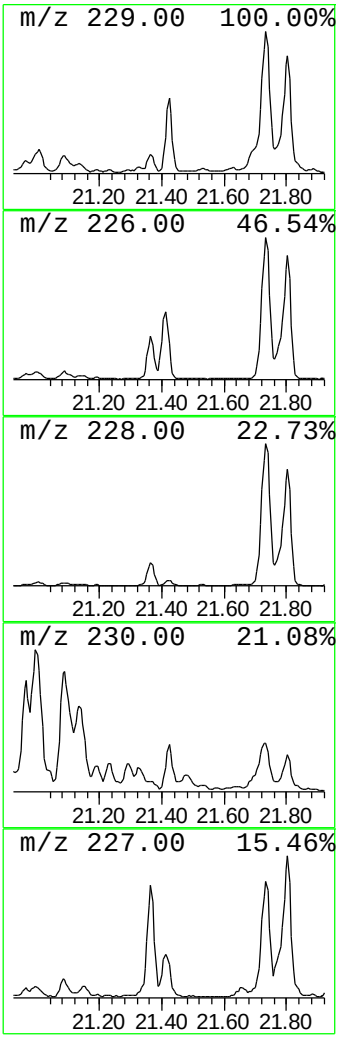
Peak Number 30 unknown-02 Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.42	2.98 ng/ul	687236	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo(a)acridine	229	C17H11N	000225-11-6	41
2	Benzimidazole-5-amine, 1-methyl-...	229	C12H11N3S	021444-73-5	35
3	Benz[c]acridine	229	C17H11N	000225-51-4	35
4	Benzene, 1-bromo-4-isothiocyanat...	227	C8H6BrNS	071672-88-3	35
5	Benzo(a)acridine	229	C17H11N	000225-11-6	32





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121715\
Data File : BG020238.D
Acq On : 17 Dec 2015 2:08
Operator : UM/SJ
Sample : G4767-13
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N35

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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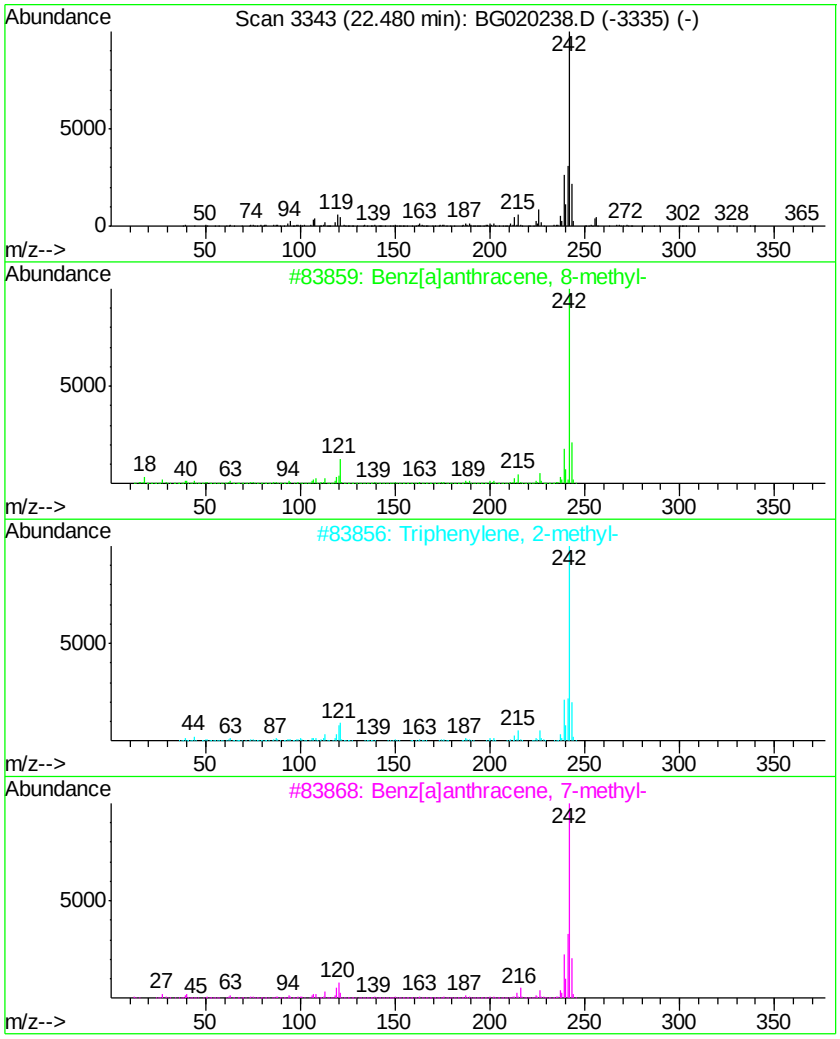
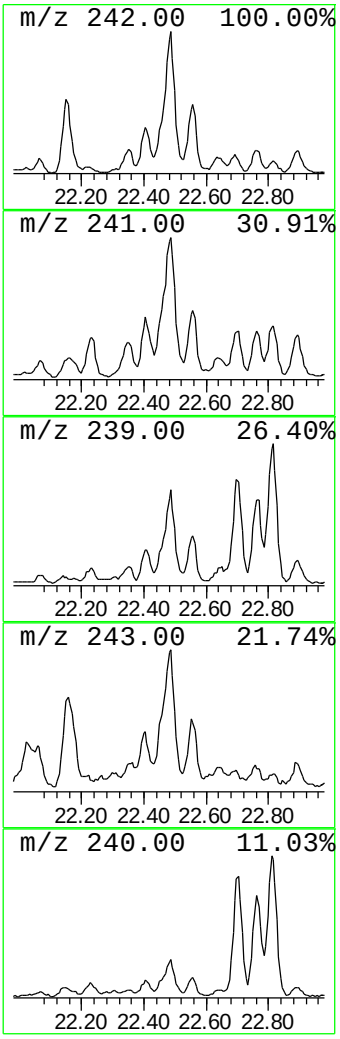
Peak Number 32 Benz[a]anthracene, 8-methyl- Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.48	2.72 ng/ul	627034	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	95
2	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	93
3	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	93
4	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	93
5	Chrysene, 6-methyl-	242	C19H14	003697-24-3	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121715\
Data File : BG020238.D
Acq On : 17 Dec 2015 2:08
Operator : UM/SJ
Sample : G4767-13
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N35

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
Butane, 2-methoxy...	3.20	18.8	ng/ul	262290	1	8.10	279732	20.0
Indene	8.64	20.0	ng/ul	279732	1	8.10	279732	20.0
Naphthalene, 1-et...	13.76	16.8	ng/ul	1341370	3	14.73	1598470	20.0
Naphthalene, 2,6-...	13.91	34.0	ng/ul	2718660	3	14.73	1598470	20.0
Naphthalene, 2,3-...	14.05	31.7	ng/ul	2536940	3	14.73	1598470	20.0
1-Isopropenylnaph...	15.04	9.3	ng/ul	739964	3	14.73	1598470	20.0
Naphthalene, 2,3,...	15.20	7.0	ng/ul	556913	3	14.73	1598470	20.0
Naphthalene, 1,6,...	15.34	6.3	ng/ul	499754	3	14.73	1598470	20.0
unknown-01	15.55	3.5	ng/ul	275797	3	14.73	1598470	20.0
Benzeneethanol, ...	15.95	24.9	ng/ul	1987090	3	14.73	1598470	20.0
Nordiphenamid	16.03	13.3	ng/ul	1059090	3	14.73	1598470	20.0
[1,1'-Biphenyl]-4...	16.07	24.9	ng/ul	1993910	3	14.73	1598470	20.0
2,4,6-Cycloheptat...	16.22	2.2	ng/ul	3078520	4	17.48	28118700	20.0
Phenanthrene, 1-m...	18.40	2.4	ng/ul	3361800	4	17.48	28118700	20.0
4H-Cyclopenta[def...	18.56	4.4	ng/ul	6183640	4	17.48	28118700	20.0
1,6-Dimethylphena...	19.77	2.4	ng/ul	554358	5	21.75	4618550	20.0
Benzo[b]naphtho[1...	20.06	4.1	ng/ul	948123	5	21.75	4618550	20.0
Pyrene, 1-methyl-	20.21	6.2	ng/ul	1441030	5	21.75	4618550	20.0
Pyrene, 2-methyl-	20.54	4.6	ng/ul	1053630	5	21.75	4618550	20.0
Pyrene, 1,3-dimet...	21.08	2.0	ng/ul	472049	5	21.75	4618550	20.0
Benzo[b]naphtho[2...	21.32	3.4	ng/ul	772563	5	21.75	4618550	20.0
Cyclopenta(cd)pyr...	21.36	3.4	ng/ul	788669	5	21.75	4618550	20.0
unknown-02	21.42	3.0	ng/ul	687236	5	21.75	4618550	20.0
Benz[a]anthracene...	22.48	2.7	ng/ul	627034	5	21.75	4618550	20.0