LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121715\
Data File : BG020239.D
Acq On : 17 Dec 2015 2:47
Operator : UM/SJ
Sample : G4767-19
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N41

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	8.637	980	987	997	rBV	245128	411257	1.70%	0.252%
2	8.802	1008	1015	1023	rBV	132890	234396	0.97%	0.144%
3	10.541	1303	1311	1319	rVB2	161078	303239	1.25%	0.186%
4	10.993	1377	1388	1394	rVV	4005093	9474063	39.13%	5.808%
5	11.046	1394	1397	1401	rVV	129319	221911	0.92%	0.136%
6	11.093	1401	1405	1412	rVB	205527	343234	1.42%	0.210%
7	11.745	1508	1516	1524	rBV	814512	1442587	5.96%	0.884%
8	12.580	1646	1658	1664	rBV	2910742	5452664	22.52%	3.343%
9	12.791	1682	1694	1703	rVV	1667565	2979393	12.30%	1.826%
10	13.273	1769	1776	1783	rVV	337631	565251	2.33%	0.347%
11	13.349	1783	1789	1795	rVB	140767	225558	0.93%	0.138%
12	13.567	1819	1826	1834	rVB	1367786	2092993	8.64%	1.283%
13	13.761	1853	1859	1870	rVB	434023	820560	3.39%	0.503%
14	14.048	1899	1908	1913	rBV	710445	1357963	5.61%	0.832%
15	14.101	1913	1917	1921	rBV	442705	721832	2.98%	0.443%
16	14.283	1943	1948	1952	rVV	297487	474224	1.96%	0.291%
17	14.424	1964	1972	1973	rBV	361808	509870	2.11%	0.313%
18	14.448	1973	1976	1982	rVB2	481207	793975	3.28%	0.487%
19	14.707	2015	2020	2029	rVV2	542708	1106984	4.57%	0.679%
20	14.818	2029	2039	2044	rVV	5058687	10230629	42.25%	6.272%
21	14.865	2044	2047	2052	rVV	316157	471910	1.95%	0.289%
22	14.924	2052	2057	2067	rVV2	212321	499939	2.06%	0.306%
23	15.036	2072	2076	2081	rVV2	265112	465312	1.92%	0.285%
24	15.147	2086	2095	2100	rVV	3690333	6939580	28.66%	4.254%
25	15.200	2100	2104	2113	rVB2	171042	304673	1.26%	0.187%
26	15.335	2119	2127	2132	rBV2	144022	285921	1.18%	0.175%
27	15.511	2149	2157	2160	rBV	123185	259360	1.07%	0.159%
28	15.723	2184	2193	2197	rVV2	351266	818298	3.38%	0.502%
29	15.799	2197	2206	2212	rVV	4392476	8730918	36.06%	5.352%
30	15.870	2212	2218	2220	rVV2	297177	484642	2.00%	0.297%
31	15.905	2220	2224	2226	rVV	440423	691080	2.85%	0.424%
32	15.940	2226	2230	2235	rVV2	764676	1247741	5.15%	0.765%
33	15.987	2235	2238	2241	rVV4	209621	337649	1.39%	0.207%
34	16.028	2241	2245	2247	rVV	379721	582521	2.41%	0.357%

LSC Area Percent Report

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Acq On : 17 Dec 2015 2:47
Operator : UM/SJ
Sample : G4767-19
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N41

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	16.070	2247	2252	2260	rVV	808244	1315082	5.43%	0.806%
36	16.217	2267	2277	2284	rVV	832884	1962896	8.11%	1.203%
37	16.281	2284	2288	2290	rVV2	151323	249339	1.03%	0.153%
38	16.563	2332	2336	2341	rVV	315140	455732	1.88%	0.279%
39	16.775	2360	2372	2377	rBV2	615070	1446260	5.97%	0.887%
40	16.822	2377	2380	2386	rVV2	233845	370098	1.53%	0.227%
41	16.922	2391	2397	2402	rVB3	242392	438092	1.81%	0.269%
42	16.998	2402	2410	2413	rBV2	207868	471277	1.95%	0.289%
43	17.039	2413	2417	2421	rVB2	160346	234819	0.97%	0.144%
44	17.133	2429	2433	2439	rVB5	117623	233977	0.97%	0.143%
45	17.204	2439	2445	2453	rBV4	255415	698969	2.89%	0.428%
46	17.298	2453	2461	2470	rVB	1386301	2266706	9.36%	1.390%
47	17.568	2485	2507	2510	rBV	8152705	24213365	100.00%	14.844%
48	17.597	2510	2512	2514	rVV	869790	1007734	4.16%	0.618%
49	17.632	2514	2518	2522	rVB	1804906	2484954	10.26%	1.523%
50	17.885	2548	2561	2568	rVV2	1371994	2970498	12.27%	1.821%
51	17.991	2574	2579	2583	rVV2	320394	550693	2.27%	0.338%
52	18.056	2587	2590	2597	rVV3	142851	282175	1.17%	0.173%
53	18.191	2609	2613	2622	rVB	119598	277969	1.15%	0.170%
54	18.349	2634	2640	2644	rVV	1104698	1713861	7.08%	1.051%
55	18.402	2644	2649	2654	rVB	1486467	2269628	9.37%	1.391%
56	18.479	2654	2662	2668	rBV	481757	900463	3.72%	0.552%
57	18.555	2668	2675	2684	rVV2	2112602	4369661	18.05%	2.679%
58	18.643	2684	2690	2694	rVV4	132205	242899	1.00%	0.149%
59	18.684	2694	2697	2702	rVV2	157090	234818	0.97%	0.144%
60	18.778	2710	2713	2718	rVV4	127432	220896	0.91%	0.135%
61	18.837	2718	2723	2728	rVV	919731	1345032	5.55%	0.825%
62	18.890	2728	2732	2740	rVV2	154462	248485	1.03%	0.152%
63	19.078	2755	2764	2769	rBV3	174203	316492	1.31%	0.194%
64	19.248	2788	2793	2799	rBV	266032	525479	2.17%	0.322%
65	19.419	2813	2822	2826	rVB4	96867	251259	1.04%	0.154%
66	19.548	2833	2844	2848	rBV	5746214	12433916	51.35%	7.622%
67	19.618	2852	2856	2860	rVB2	192138	264139	1.09%	0.162%
68	19.765	2875	2881	2886	rVB2	279108	463517	1.91%	0.284%
69	19.906	2891	2905	2909	rBV3	4438408	12025599	49.67%	7.372%
70	19.947	2909	2912	2919	rVB	321632	462984	1.91%	0.284%
71	20.059	2925	2931	2936	rVB	375078	551083	2.28%	0.338%

LSC Area Percent Report

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Acq On : 17 Dec 2015 2:47
Operator : UM/SJ
Sample : G4767-19
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N41

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	20.118	2936	2941	2948	rVB	225698	344513	1.42%	0.211%
73	20.194	2948	2954	2955	rBV	330841	484540	2.00%	0.297%
74	20.253	2961	2964	2971	rVB	256664	321512	1.33%	0.197%
75	20.323	2971	2976	2979	rBV	251880	483742	2.00%	0.297%
76	20.370	2979	2984	2989	rVB	1063220	1585415	6.55%	0.972%
77	20.470	2994	3001	3005	rBV	1252736	1820842	7.52%	1.116%
78	20.529	3005	3011	3014	rVV2	356427	705776	2.91%	0.433%
79	20.564	3014	3017	3020	rVV	233754	293278	1.21%	0.180%
80	20.664	3030	3034	3038	rBV	176073	265428	1.10%	0.163%
81	20.711	3038	3042	3045	rVV2	202089	317087	1.31%	0.194%
82	20.746	3045	3048	3053	rVB2	203112	246102	1.02%	0.151%
83	21.081	3100	3105	3110	rBV	122487	239787	0.99%	0.147%
84	21.316	3138	3145	3149	rBV	341823	571726	2.36%	0.350%
85	21.358	3149	3152	3157	rVV	344243	557114	2.30%	0.342%
86	21.410	3157	3161	3166	rVV2	294508	522215	2.16%	0.320%
87	21.598	3184	3193	3200	rBV	104170	258264	1.07%	0.158%
88	21.734	3205	3216	3222	rVV3	1597448	3648219	15.07%	2.236%
89	21.798	3222	3227	3238	rVB	1233555	2155923	8.90%	1.322%
90	21.951	3247	3253	3260	rBV	316361	550043	2.27%	0.337%
91	22.157	3281	3288	3295	rVV3	195418	391451	1.62%	0.240%
92	22.480	3335	3343	3349	rVV	113390	261498	1.08%	0.160%
93	22.809	3394	3399	3407	rVB4	119532	265827	1.10%	0.163%
94	23.978	3588	3598	3605	rBV	355803	1216520	5.02%	0.746%
95	24.712	3713	3723	3729	rBV	162788	456074	1.88%	0.280%
96	24.789	3729	3736	3742	rVV	244937	681388	2.81%	0.418%
97	24.859	3742	3748	3762	rVV	256097	738545	3.05%	0.453%
98	25.012	3763	3774	3781	rVV2	191748	586863	2.42%	0.360%
99	25.088	3781	3787	3801	rVB	72031	230425	0.95%	0.141%
100	28.725	4393	4406	4421	rBV5	54668	269577	1.11%	0.165%

Sum of corrected areas: 163122667

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121715\
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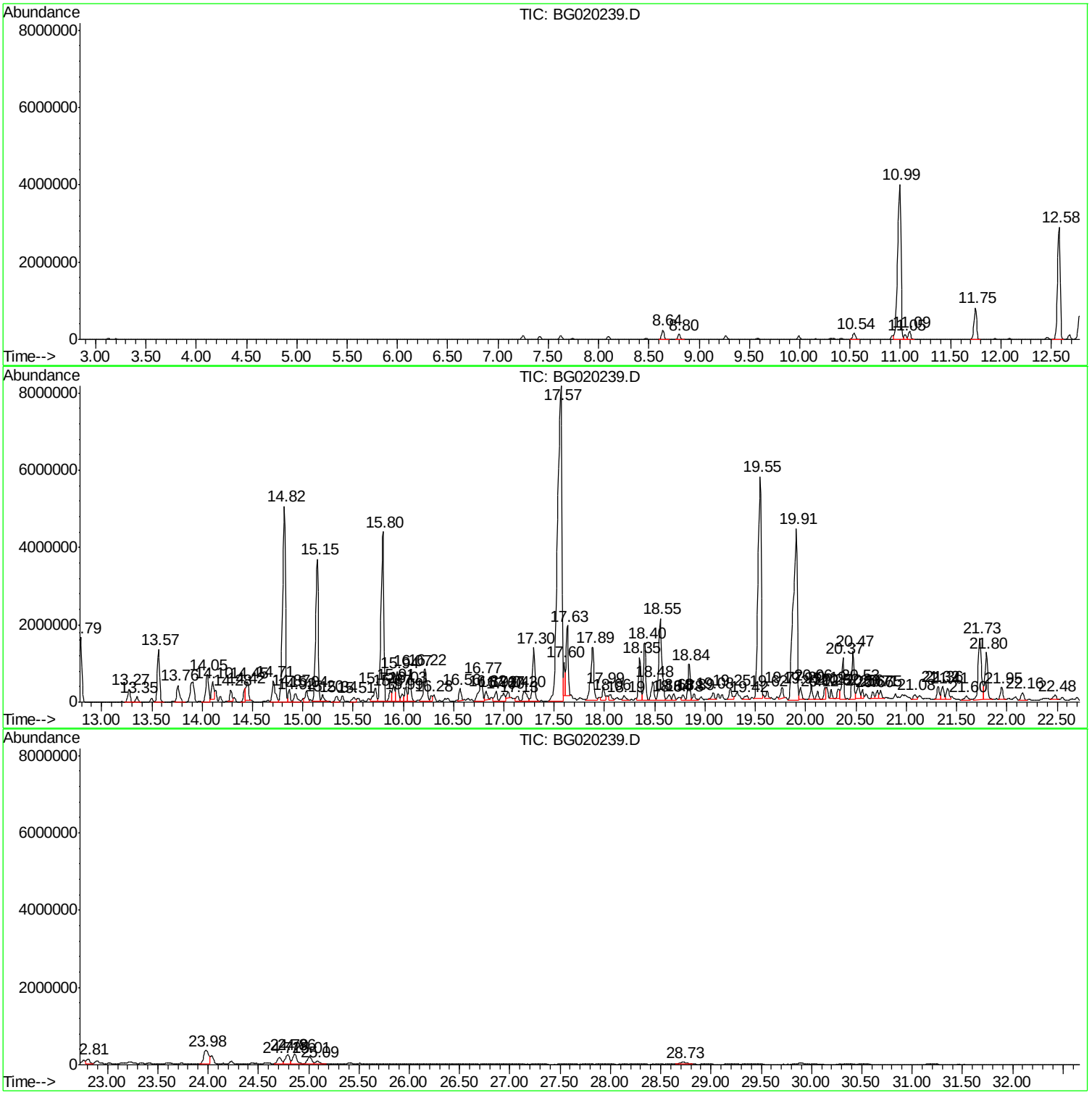
Sample : G4767-19
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
D9N41

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\BG121715\
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Instrument : BNA_G
ClientSampleId : D9N41

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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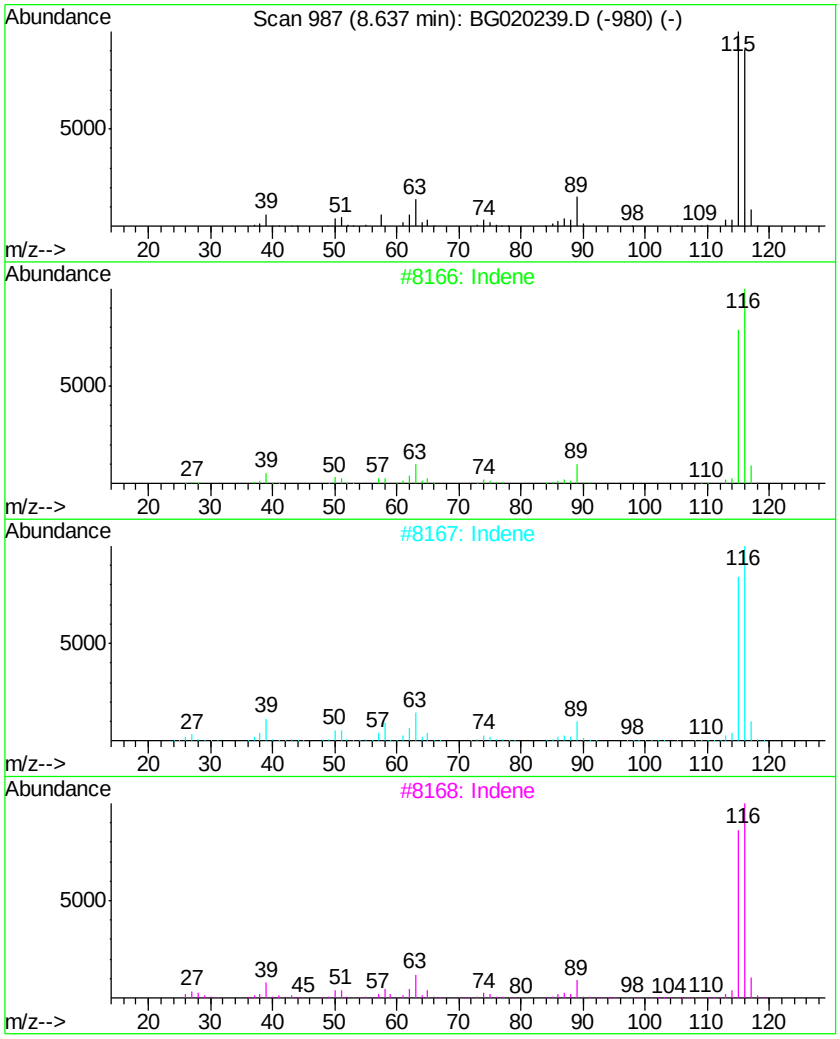
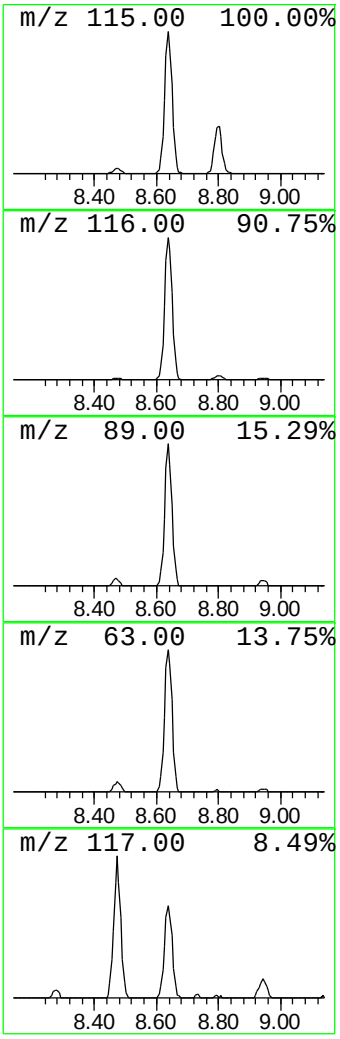
Peak Number 1 Indene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.64	20.00 ng/ul	411257	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	Indene	116	C9H8	000095-13-6	95
4	Benzene, 1-propynyl-	116	C9H8	000673-32-5	91
5	Benzene, 1-propynyl-	116	C9H8	000673-32-5	91





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121715\
Data File : BG020239.D
Acq On : 17 Dec 2015 2:47
Operator : UM/SJ
Sample : G4767-19
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N41

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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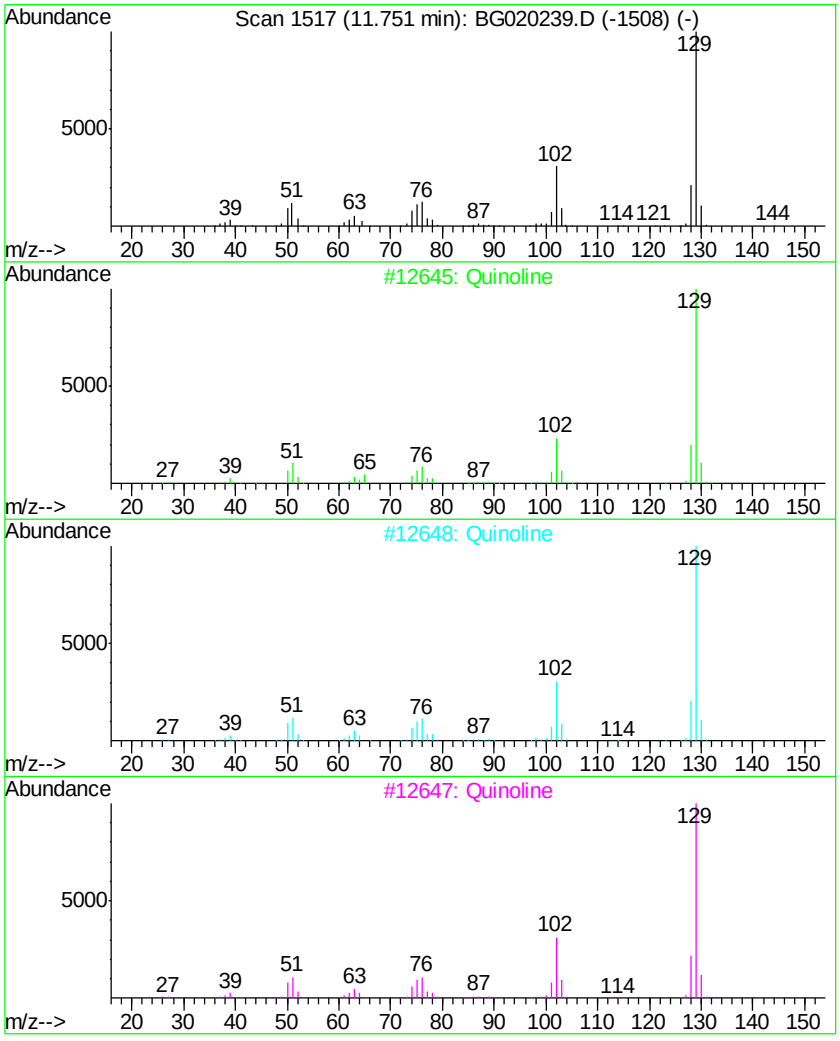
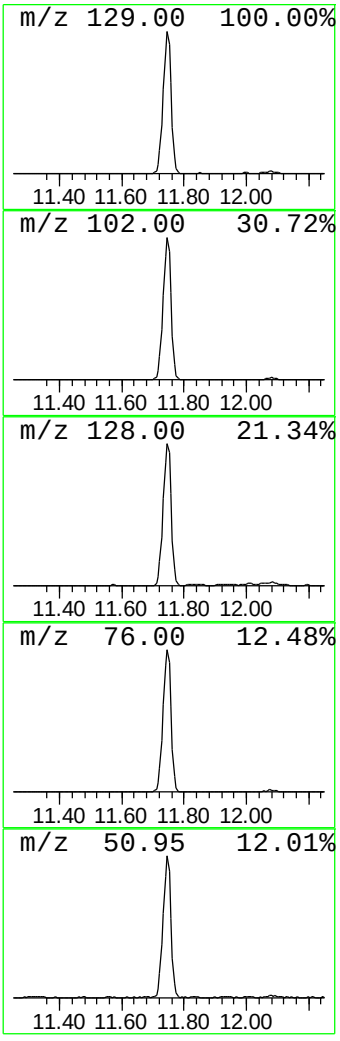
Peak Number 2 Quinoline Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.75	3.05 ng/ul	1442590	Naphthalene-d8	10.92

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Quinoline	129	C9H7N	000091-22-5	97
2	Quinoline	129	C9H7N	000091-22-5	96
3	Quinoline	129	C9H7N	000091-22-5	96
4	Isoquinoline	129	C9H7N	000119-65-3	95
5	Isoquinoline	129	C9H7N	000119-65-3	95





Library Search Compound Report

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Sample : G4767-19
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ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N41

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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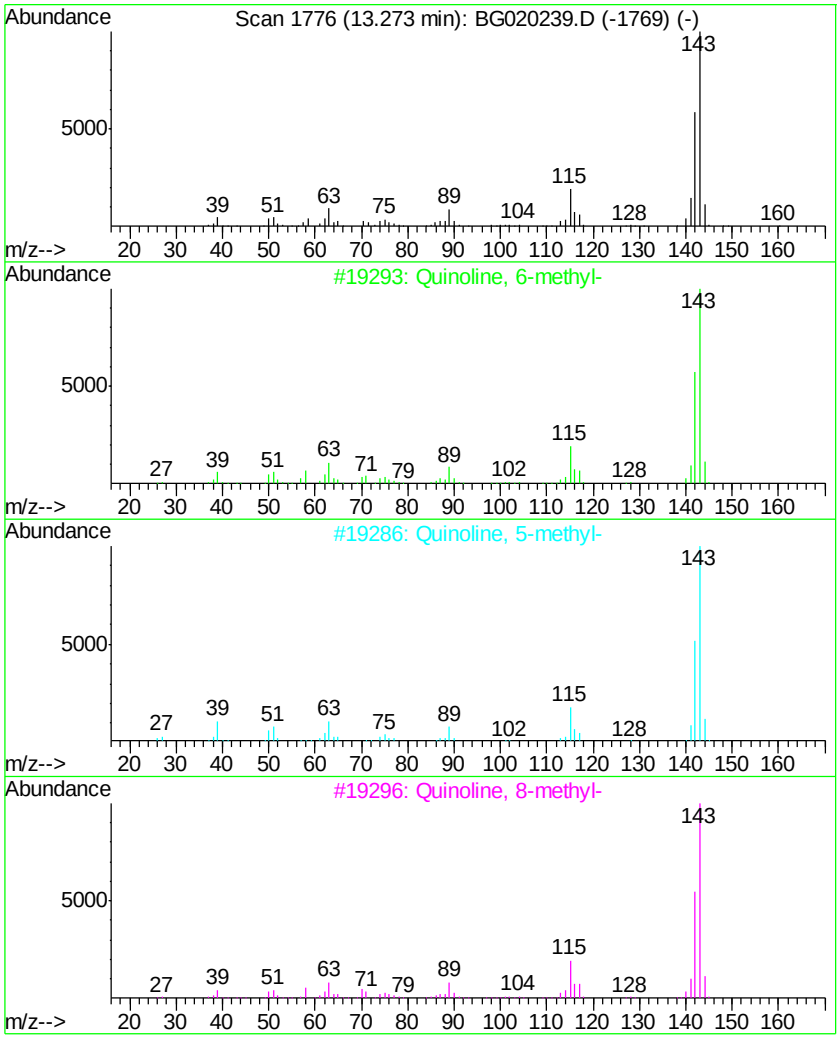
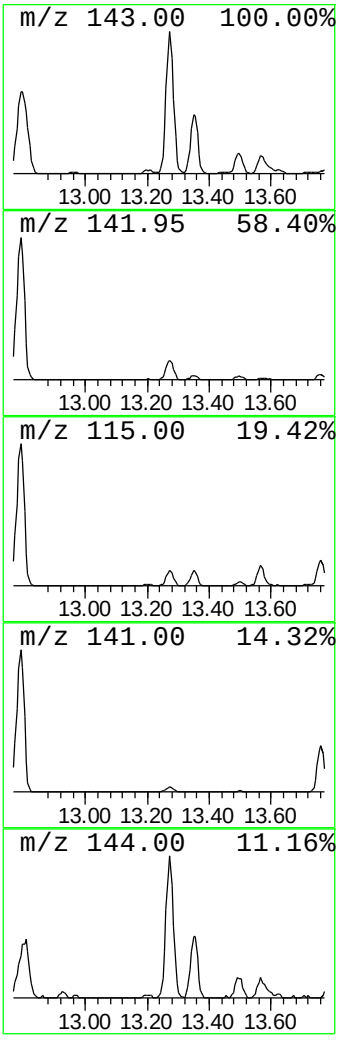
Peak Number 3 Quinoline, 6-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.27	10.21 ng/ul	565251	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Quinoline, 6-methyl-	143	C10H9N	000091-62-3	96
2	Quinoline, 5-methyl-	143	C10H9N	007661-55-4	96
3	Quinoline, 8-methyl-	143	C10H9N	000611-32-5	96
4	Quinoline, 8-methyl-	143	C10H9N	000611-32-5	96
5	Quinoline, 7-methyl-	143	C10H9N	000612-60-2	96





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121715\
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Acq On : 17 Dec 2015 2:47
Operator : UM/SJ
Sample : G4767-19
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N41

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

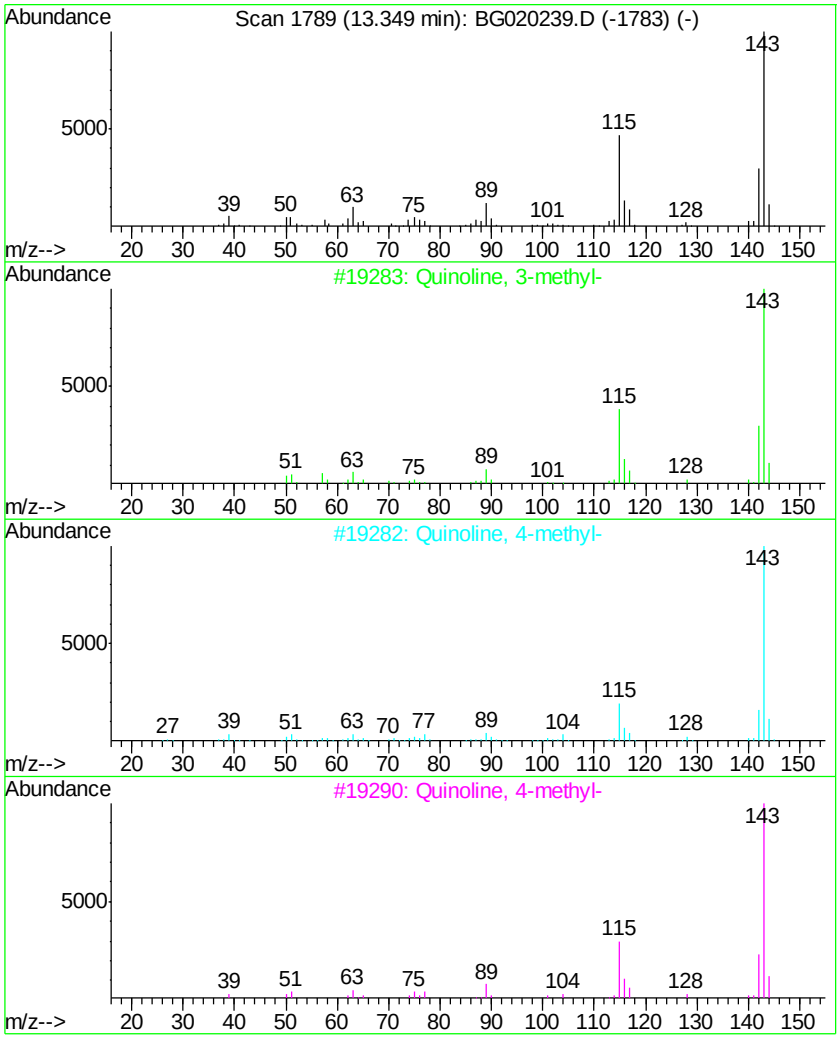
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

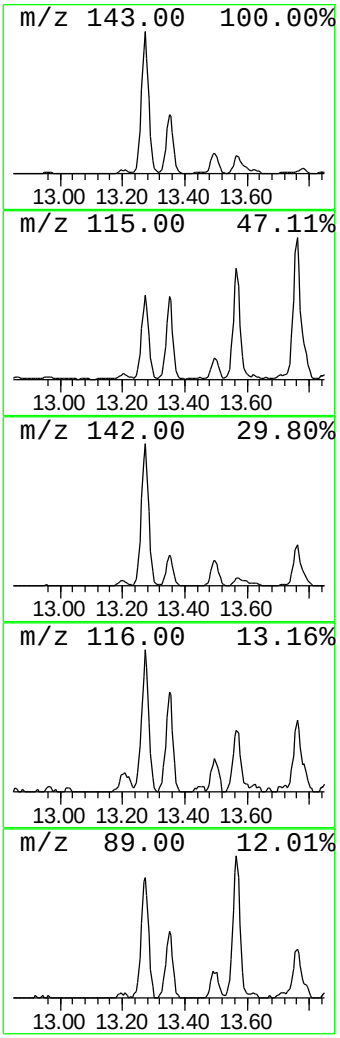
****

Peak Number 4 Quinoline, 3-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.35	4.08 ng/ul	225558	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Quinoline, 3-methyl-	143	C10H9N	000612-58-8	97
2	Quinoline, 4-methyl-	143	C10H9N	000491-35-0	87
3	Quinoline, 4-methyl-	143	C10H9N	000491-35-0	83
4	1H-Pyrrole, 2-phenyl-	143	C10H9N	003042-22-6	81
5	Isoquinoline, 1-methyl-	143	C10H9N	001721-93-3	80





Library Search Compound Report

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Data File : BG020239.D
Acq On : 17 Dec 2015 2:47
Operator : UM/SJ
Sample : G4767-19
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N41

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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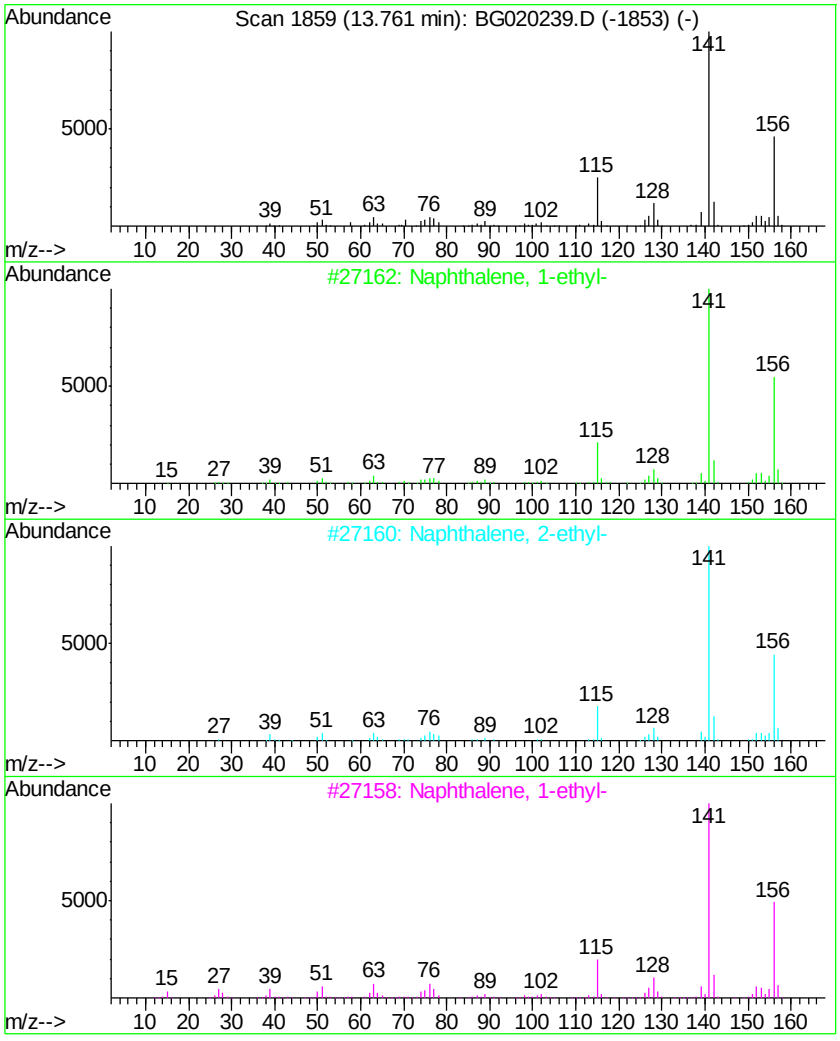
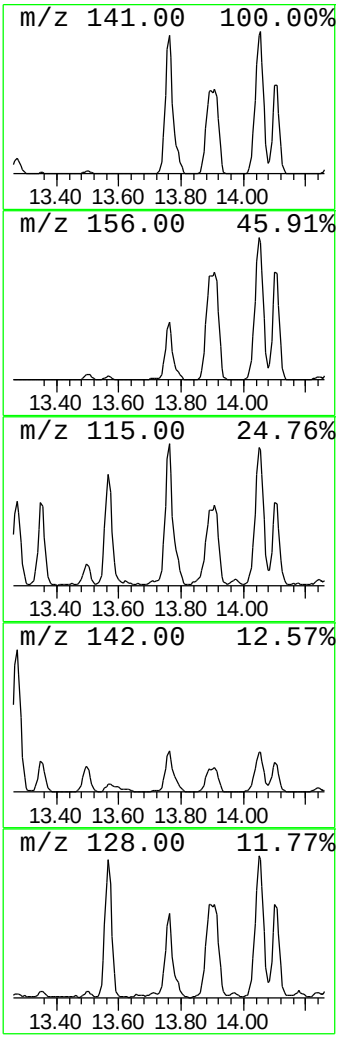
Peak Number 5 Naphthalene, 1-ethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.76	14.83 ng/ul	820560	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	94
2	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	94
3	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	94
4	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	91
5	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	91





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Acq On : 17 Dec 2015 2:47
Operator : UM/SJ
Sample : G4767-19
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N41

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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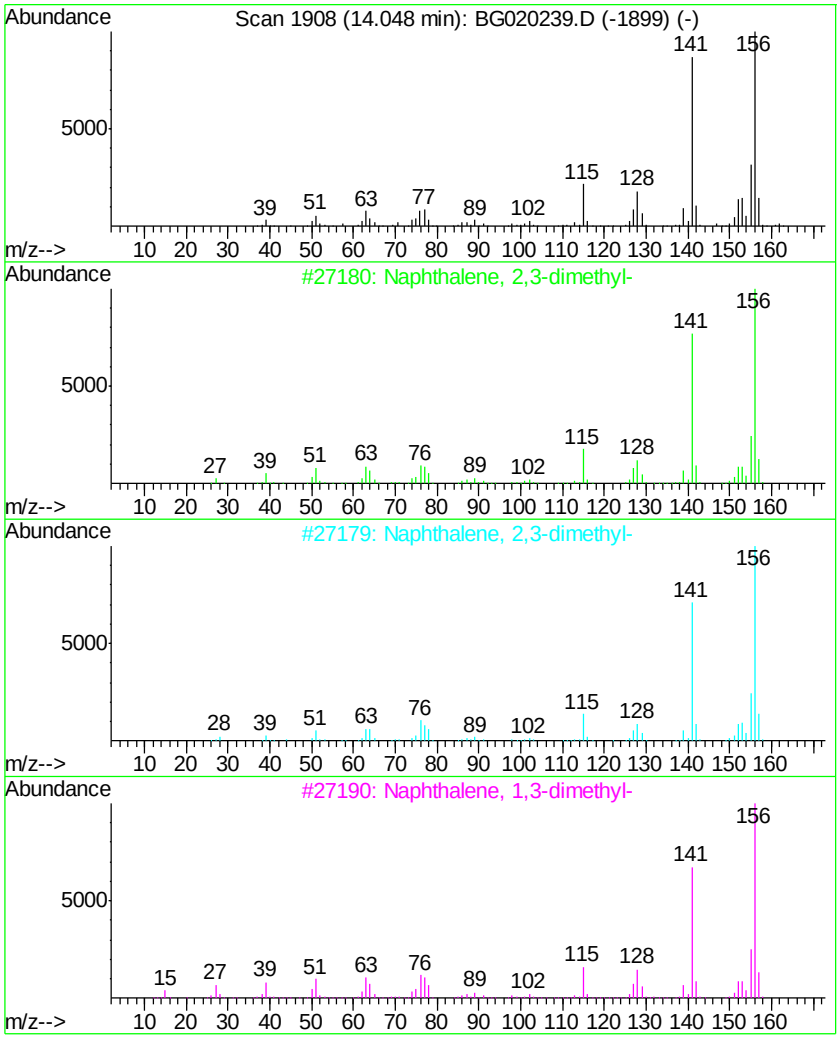
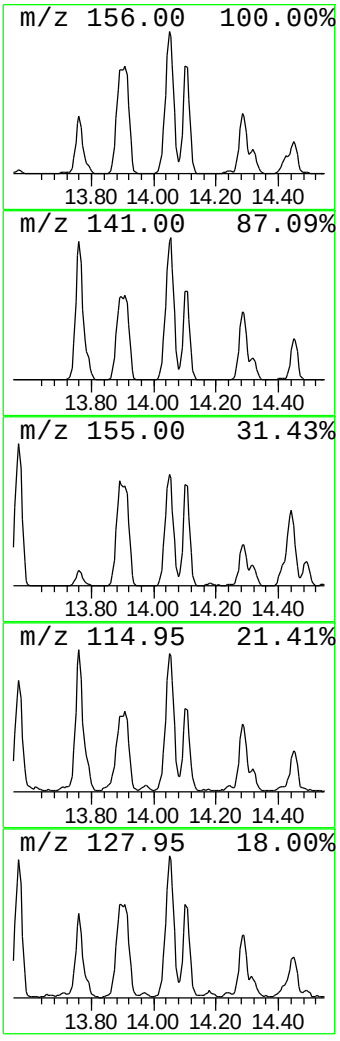
Peak Number 6 Naphthalene, 2,3-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.05	24.53 ng/ul	1357960	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, 2,3-dimethyl-	156	C12H12	000581-40-8	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, 2,3-dimethyl-	156	C12H12	000581-40-8	97





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Sample : G4767-19
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N41

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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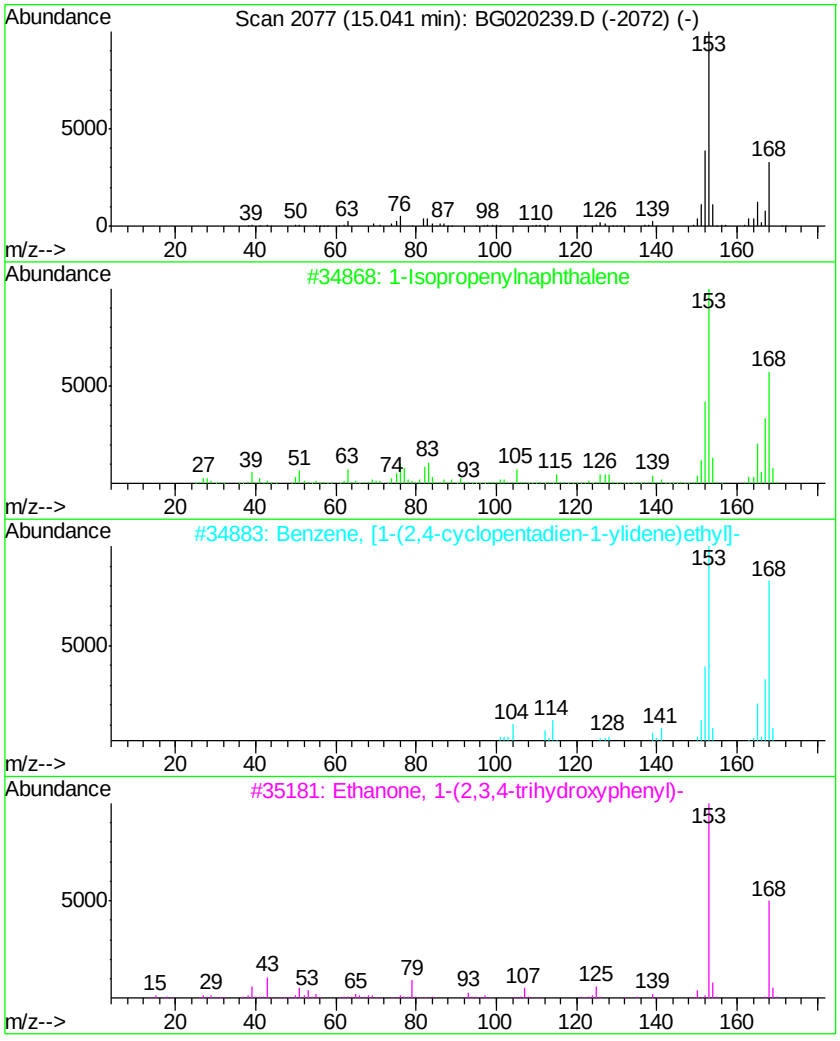
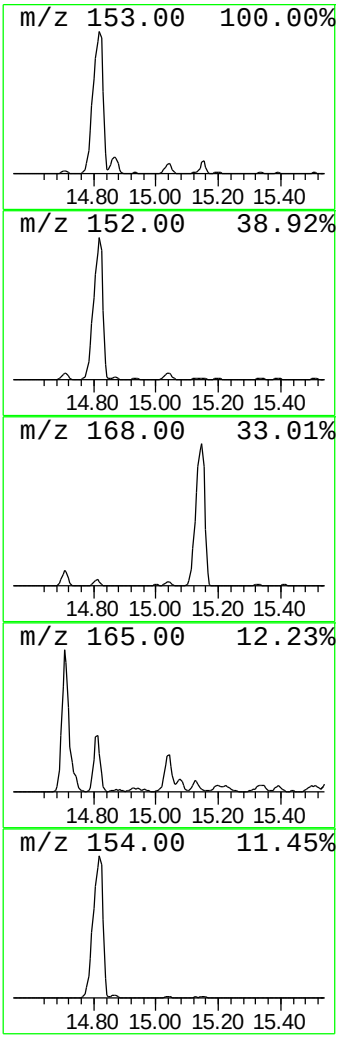
Peak Number 8 1-Isopropenylnaphthalene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.04	8.41 ng/ul	465312	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	80
2	Benzene, [1-(2,4-cyclopentadien-...	168	C13H12	002320-32-3	72
3	Ethanone, 1-(2,3,4-trihydroxyphe...	168	C8H8O4	000528-21-2	49
4	2(1H)-Pyridinethione, 1,4,6-trim...	153	C8H11NS	019006-70-3	42
5	Thieno[2,3-b]thiophene, 2-ethyl-	168	C8H8S2	005912-01-6	38





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Sample : G4767-19
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N41

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Quant Title : SVOA CALIBRATION

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

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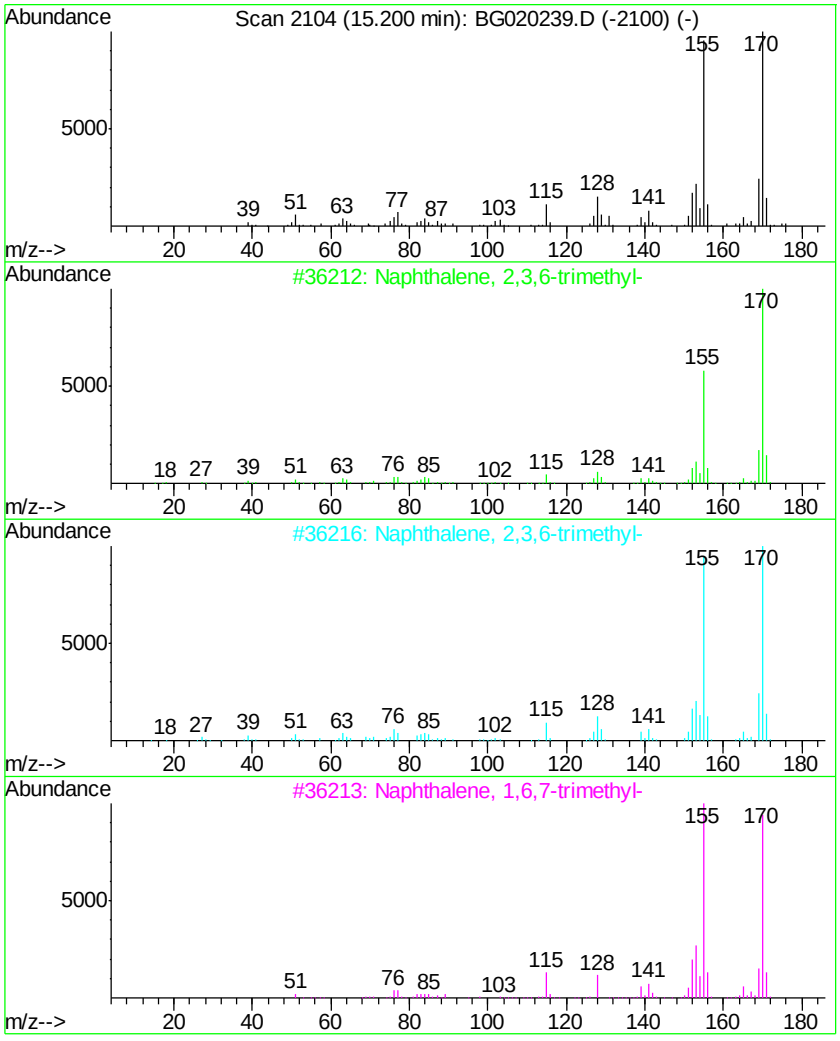
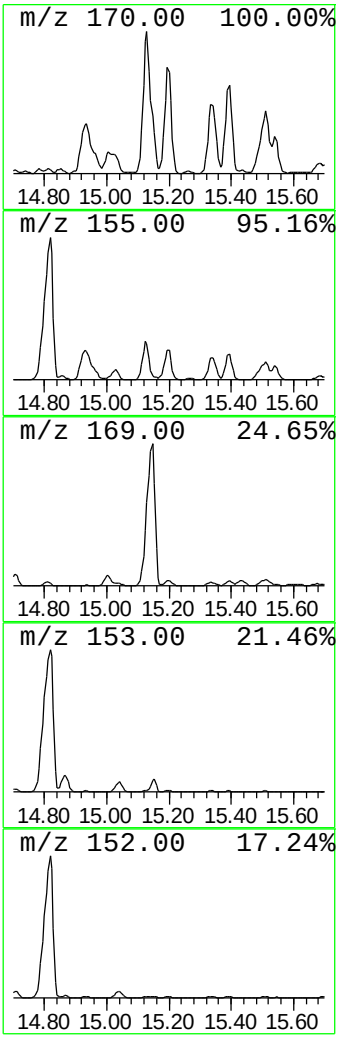
Peak Number 9 Naphthalene, 2,3,6-trimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.20	5.50 ng/ul	304673	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	97
3	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	96
4	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	96
5	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	95





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Sample : G4767-19
Misc :
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Instrument : BNA_G
ClientSampleId : D9N41

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Quant Title : SVOA CALIBRATION

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

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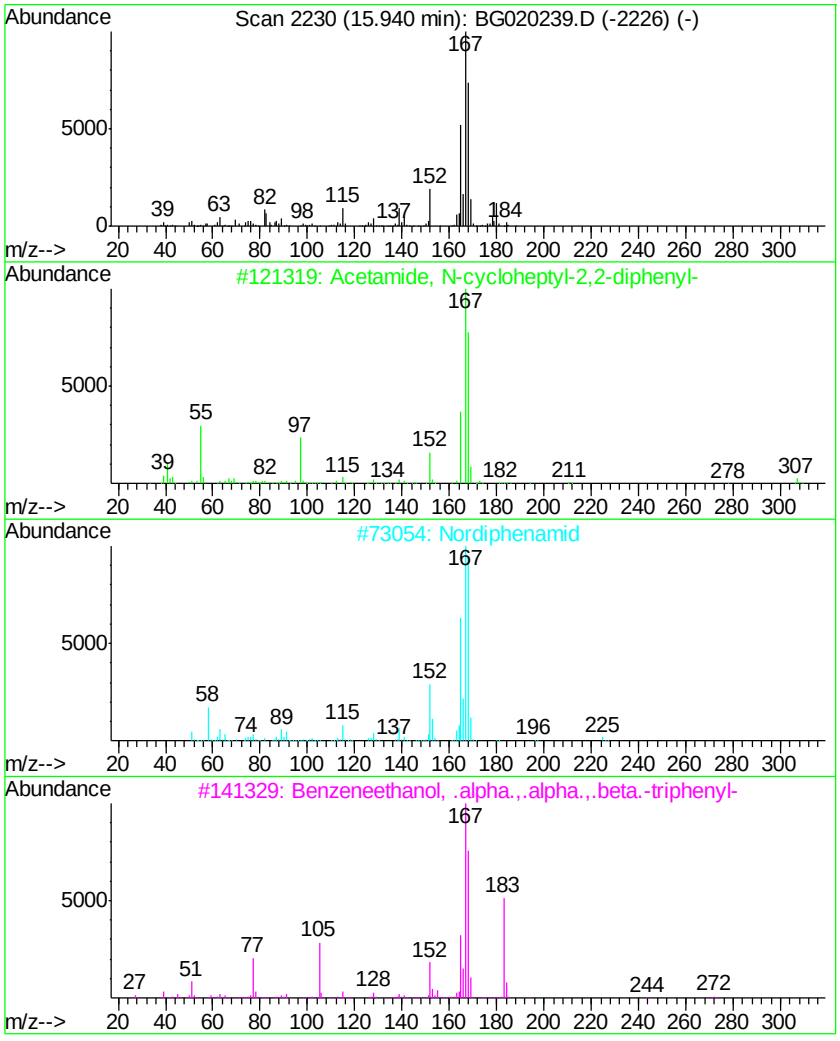
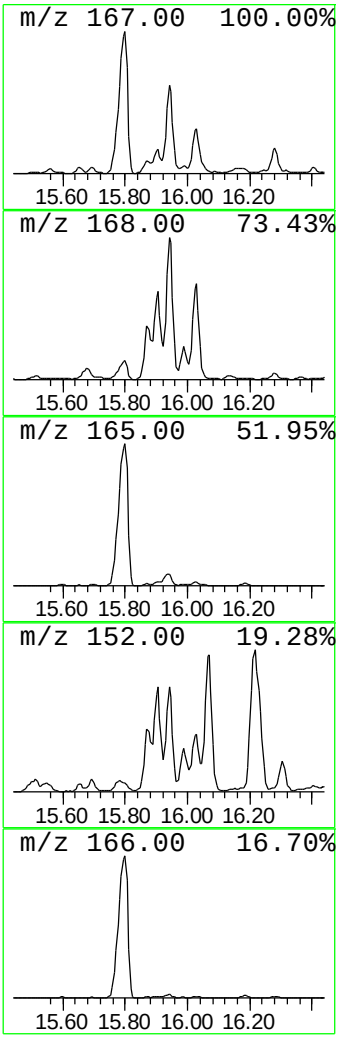
Peak Number 14 Acetamide, N-cycloheptyl-2,... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.94	22.54 ng/ul	1247740	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetamide, N-cycloheptyl-2,2-dip...	307	C21H25NO	351062-01-6	72
2	Nordiphenamid	225	C15H15NO	000954-21-2	64
3	Benzeneethanol, .alpha.,.alpha.,...	350	C26H22O	000981-24-8	64
4	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	58
5	Fluorene, 2,4a-dihydro-	168	C13H12	059247-36-8	53





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Operator : UM/SJ
Sample : G4767-19
Misc :
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ClientSampleId : D9N41

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Quant Title : SVOA CALIBRATION

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

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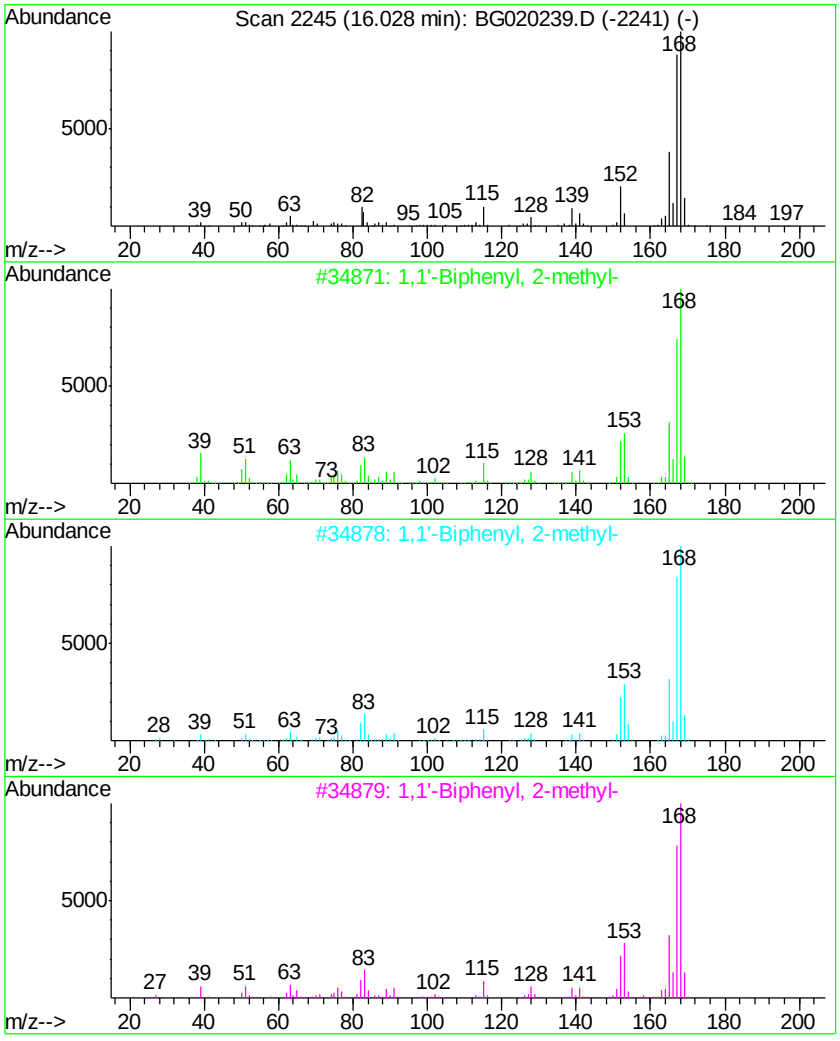
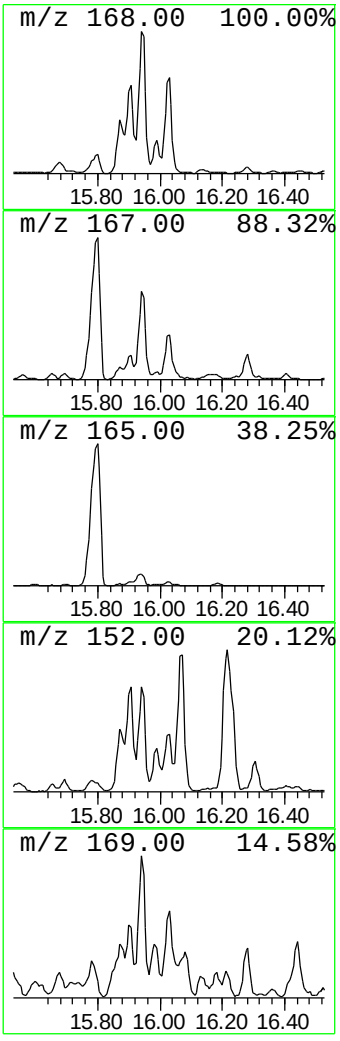
Peak Number 16 1,1'-Biphenyl, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.03	10.52 ng/ul	582521	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	81
2	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	81
3	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	74
4	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	72
5	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	72





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Sample : G4767-19
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Instrument : BNA_G
ClientSampleId : D9N41

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Quant Title : SVOA CALIBRATION

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

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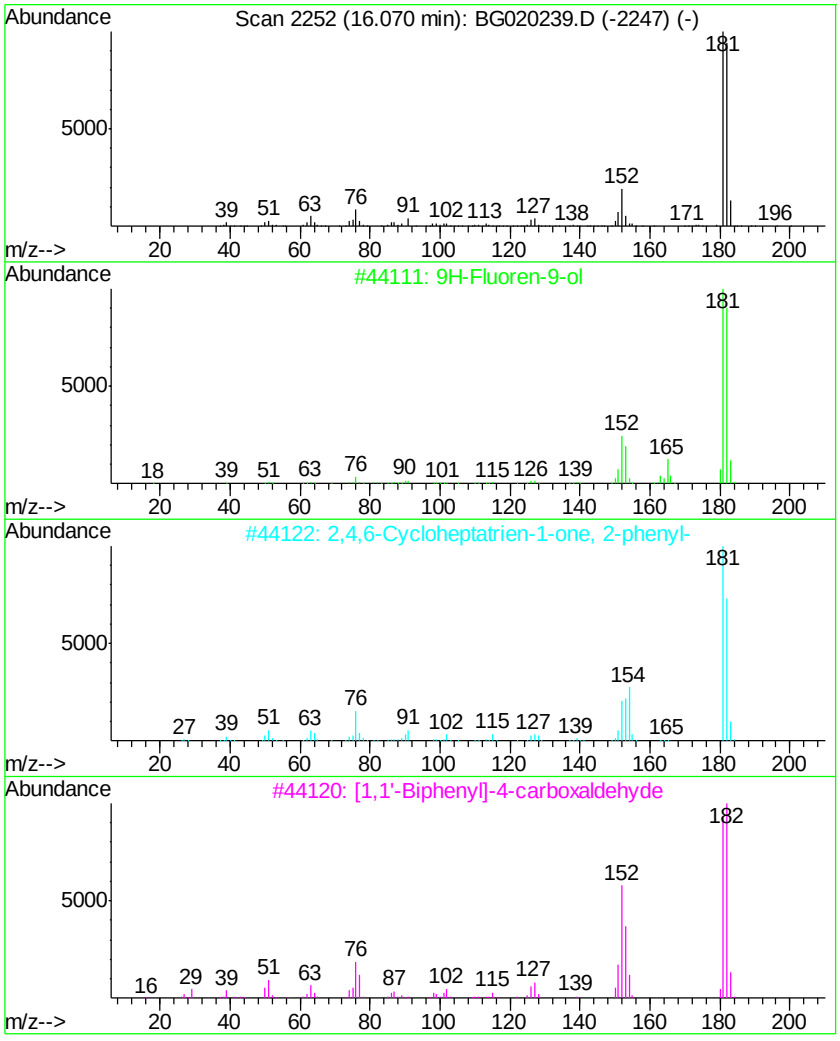
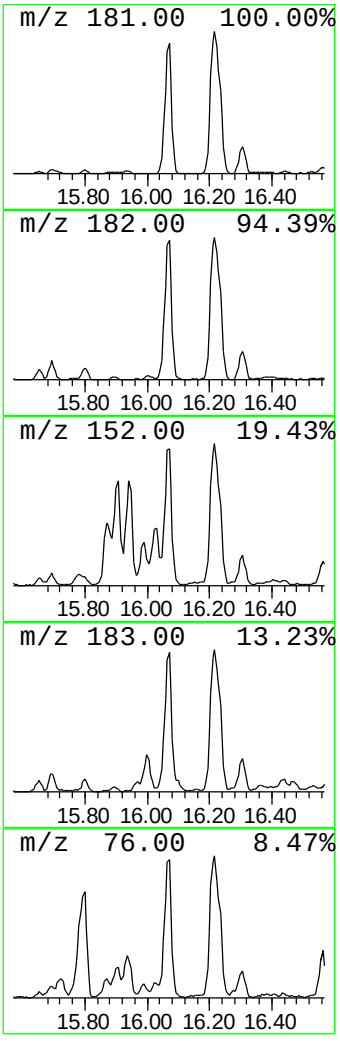
Peak Number 17 9H-Fluoren-9-ol Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.07	23.76 ng/ul	1315080	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	86
2	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	83
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	80
4	3-(2-Naphthyl)acrylaldehyde	182	C13H10O	020884-05-3	64
5	2-Hydroxyfluorene	182	C13H10O	002443-58-5	59





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Acq On : 17 Dec 2015 2:47
Operator : UM/SJ
Sample : G4767-19
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N41

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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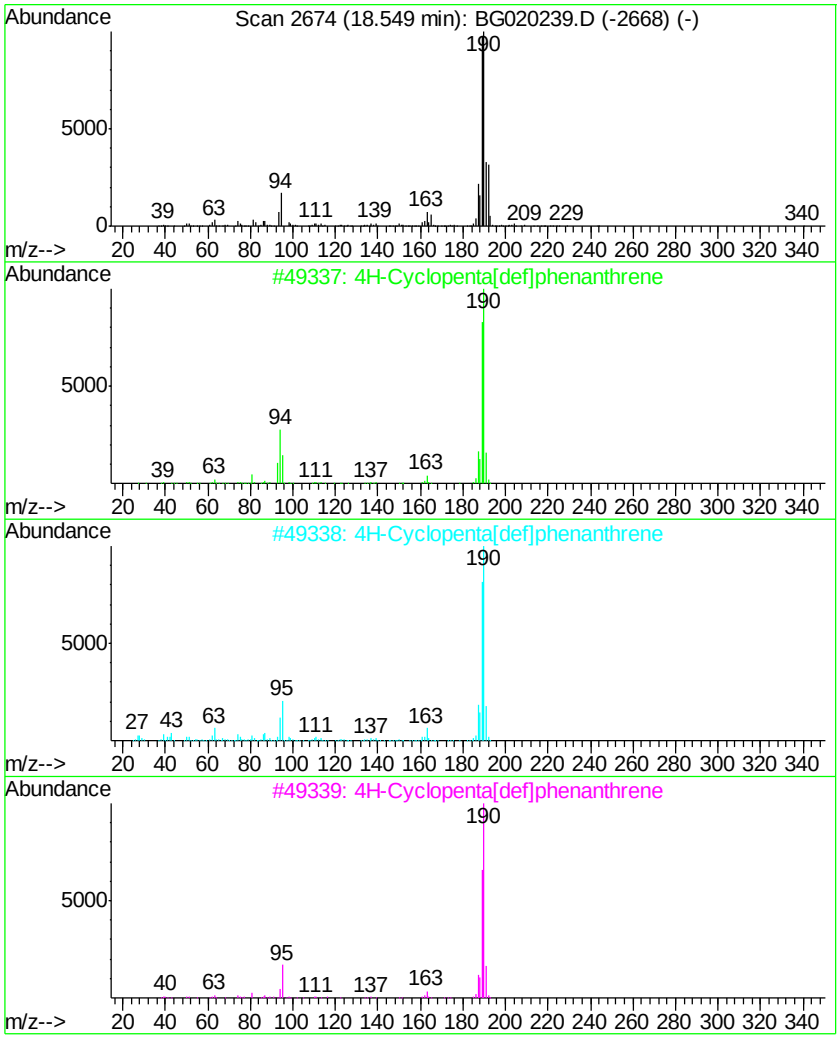
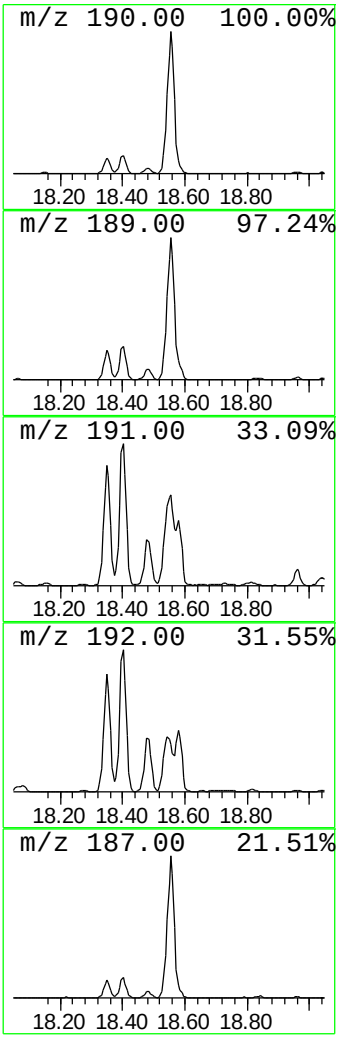
Peak Number 18 4H-Cyclopenta[def]phenanthrene Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.55	3.61 ng/ul	4369660	Phenanthrene-d10	17.49

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	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
5	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	50





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Sample : G4767-19
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N41

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Quant Title : SVOA CALIBRATION

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

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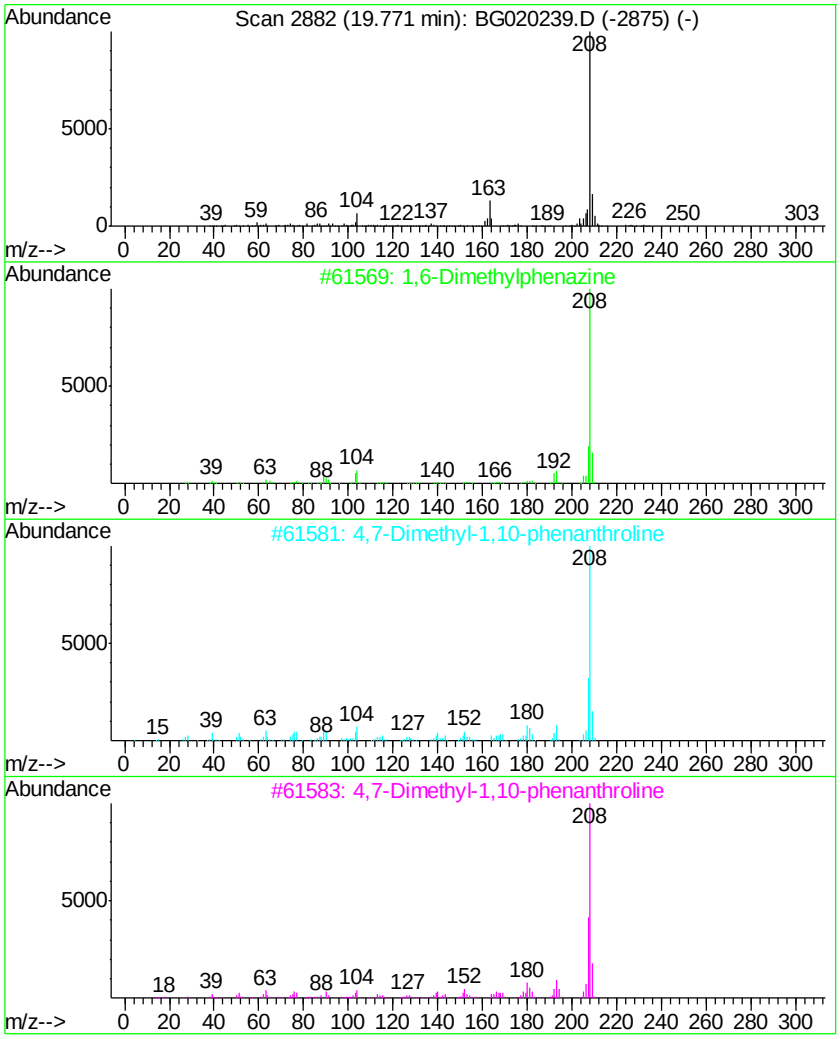
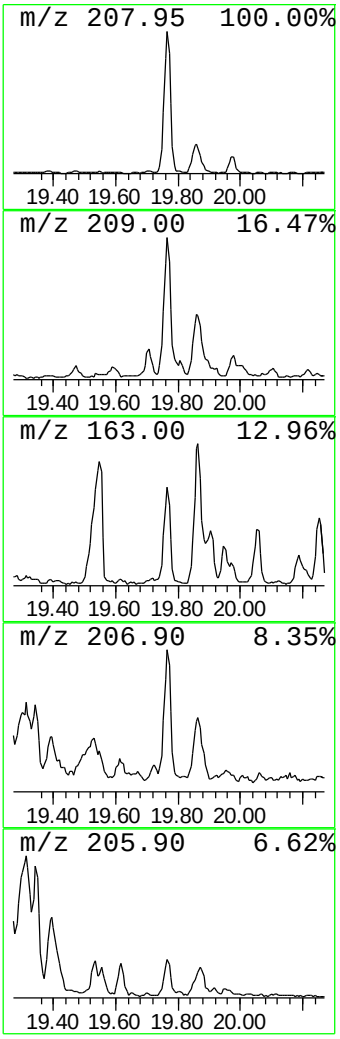
Peak Number 19 1,6-Dimethylphenazine Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.77	2.54 ng/ul	463517	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,6-Dimethylphenazine	208	C14H12N2	058718-43-7	64
2	4,7-Dimethyl-1,10-phenanthroline	208	C14H12N2	003248-05-3	59
3	4,7-Dimethyl-1,10-phenanthroline	208	C14H12N2	003248-05-3	59
4	Benzene, 1,1'-(2-methyl-2-propen...	208	C16H16	070813-56-8	59
5	1,10-Phenanthroline, 2,9-dimethyl-	208	C14H12N2	000484-11-7	59





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ClientSampleId : D9N41

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Quant Title : SVOA CALIBRATION

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

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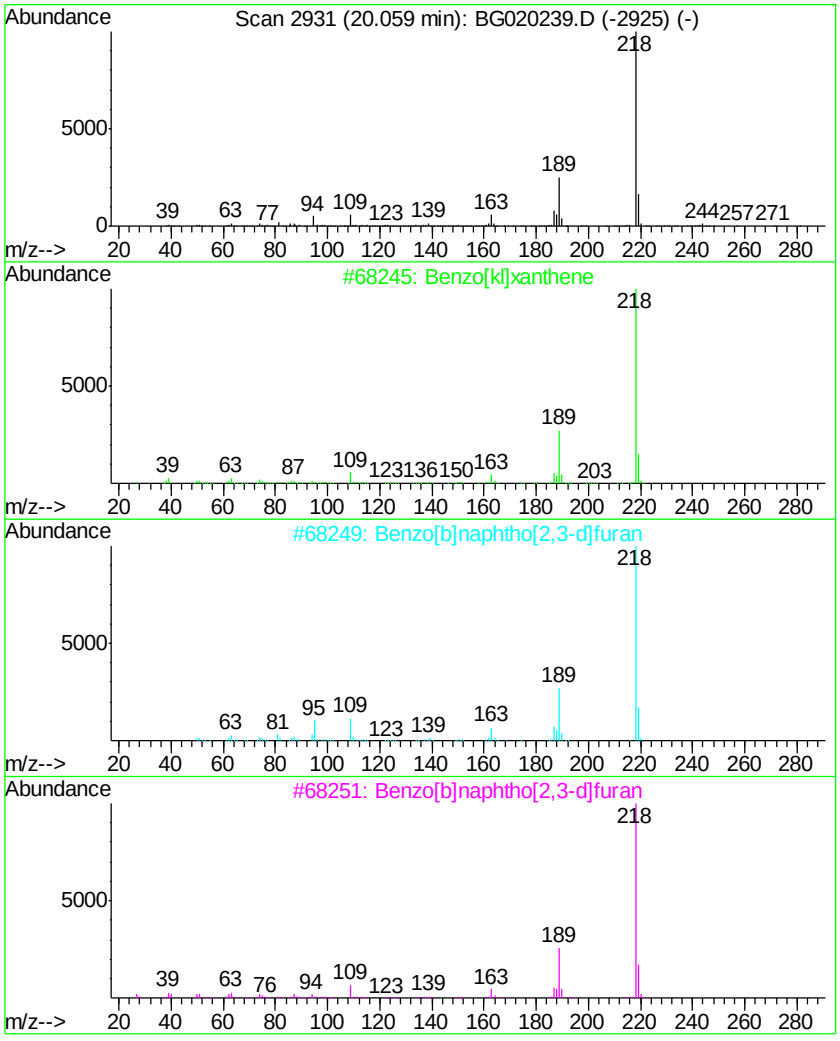
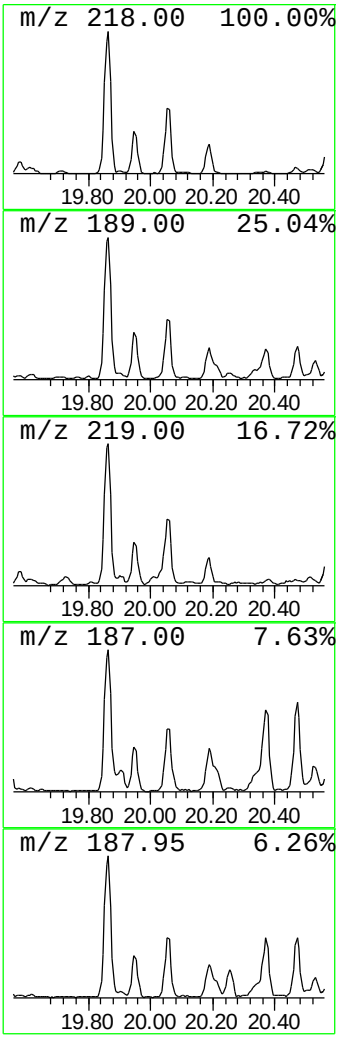
Peak Number 20 Benzo[kl]xanthene Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.06	3.02 ng/ul	551083	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[kl]xanthene	218	C16H10O	000200-23-7	94
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	94
4	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	91
5	Benzo[b]naphtho[1,2-d]furan	218	C16H10O	000239-30-5	90





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Sample : G4767-19
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ALS Vial : 25 Sample Multiplier: 1

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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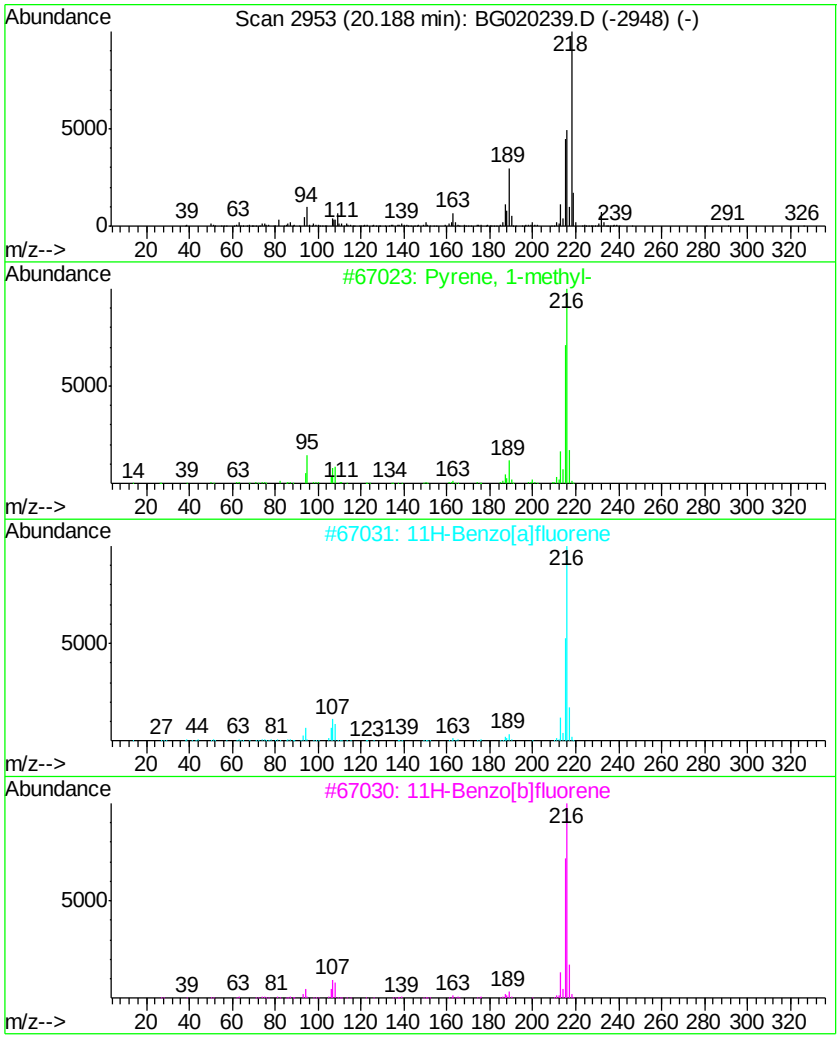
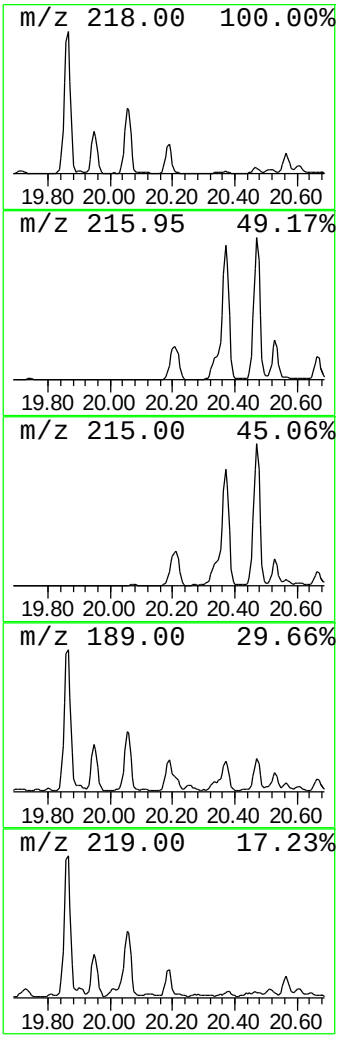
Peak Number 21 Pyrene, 1-methyl- Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.19	2.66 ng/ul	484540	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	70
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	70
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	64
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	60





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Sample : G4767-19
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N41

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Quant Title : SVOA CALIBRATION

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

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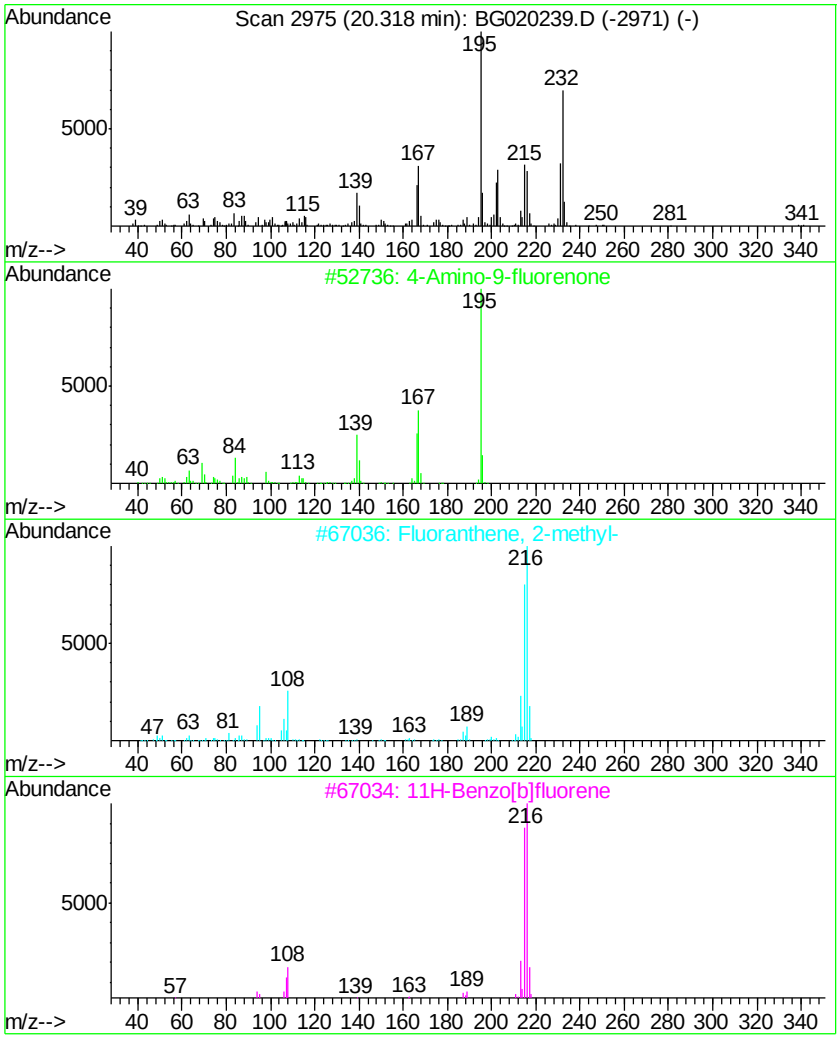
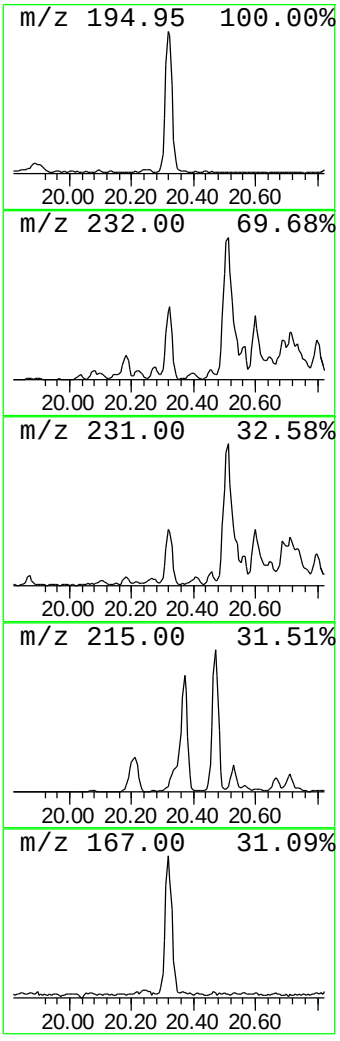
Peak Number 22 4-Amino-9-fluorenone Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.32	2.65 ng/ul	483742	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Amino-9-fluorenone	195	C13H9NO	004269-15-2	51
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	47
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	47
4	6(5H)-Phenanthridinone	195	C13H9NO	001015-89-0	44
5	9(10H)-Acridinone	195	C13H9NO	000578-95-0	41





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Sample : G4767-19
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ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N41

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Quant Title : SVOA CALIBRATION

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

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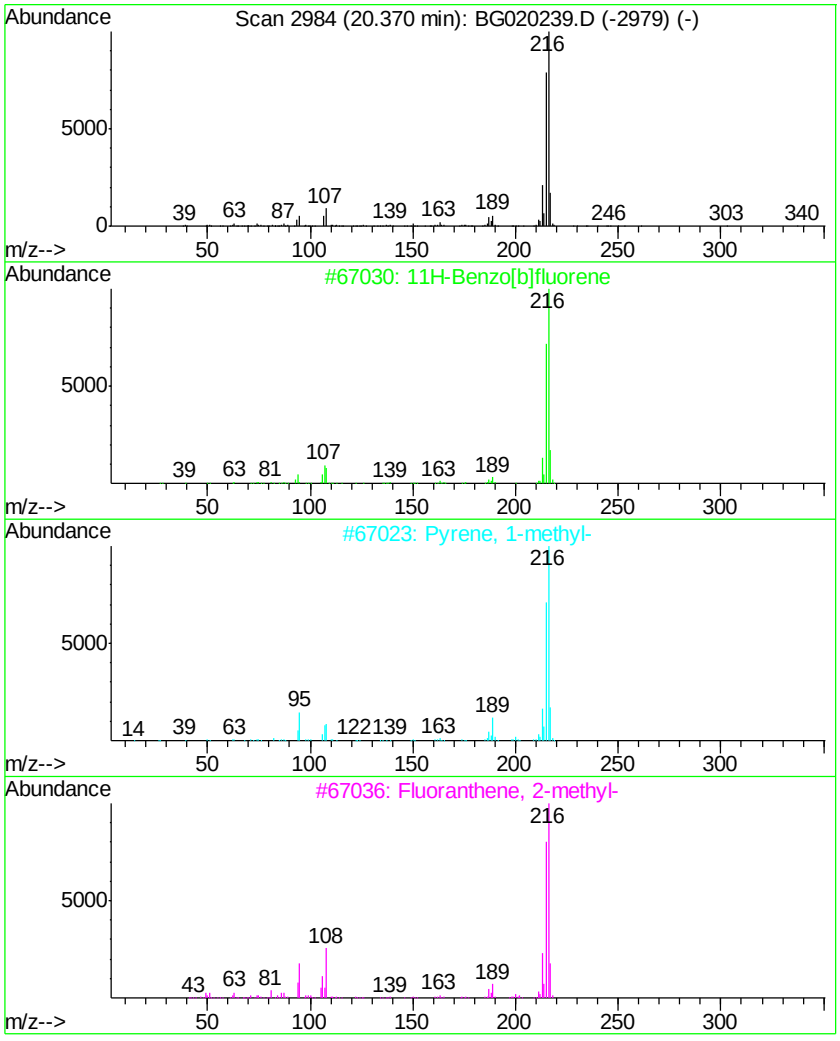
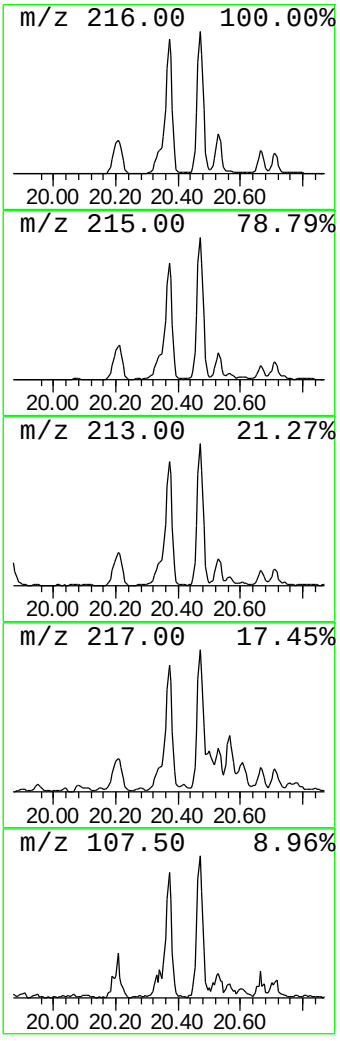
Peak Number 23 11H-Benzo[b]fluorene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.37	8.69 ng/ul	1585420	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	91





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Acq On : 17 Dec 2015 2:47
Operator : UM/SJ
Sample : G4767-19
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N41

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Quant Title : SVOA CALIBRATION

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

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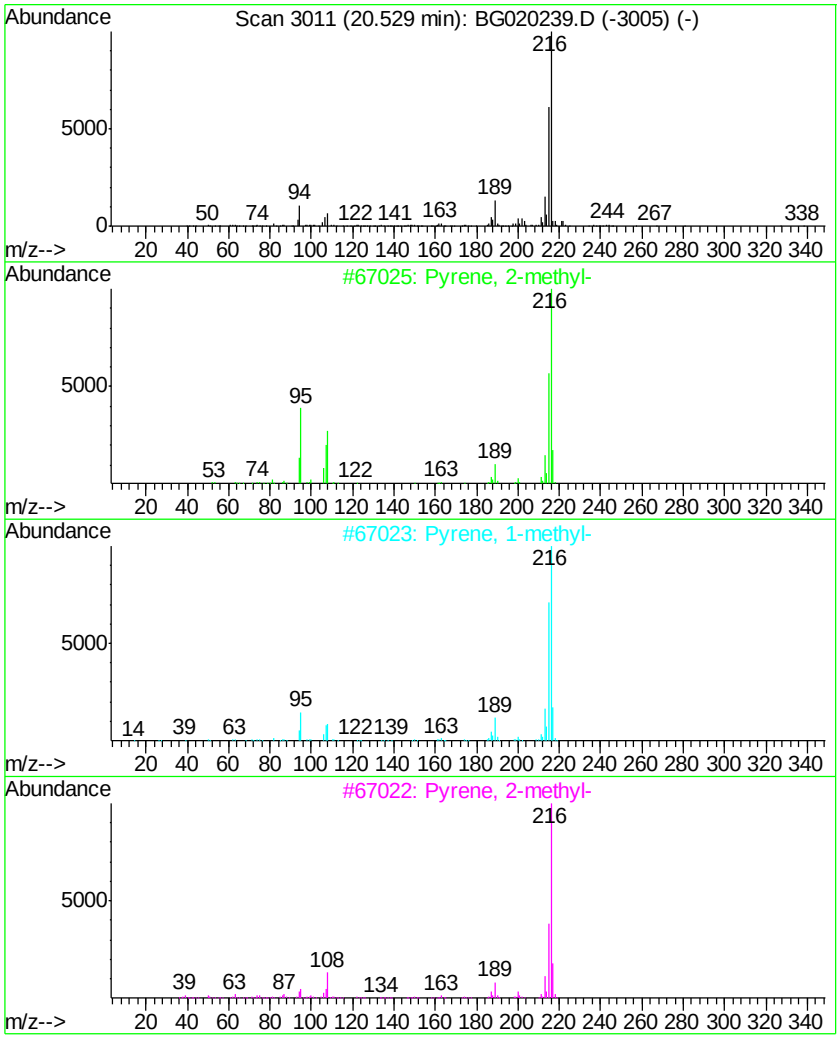
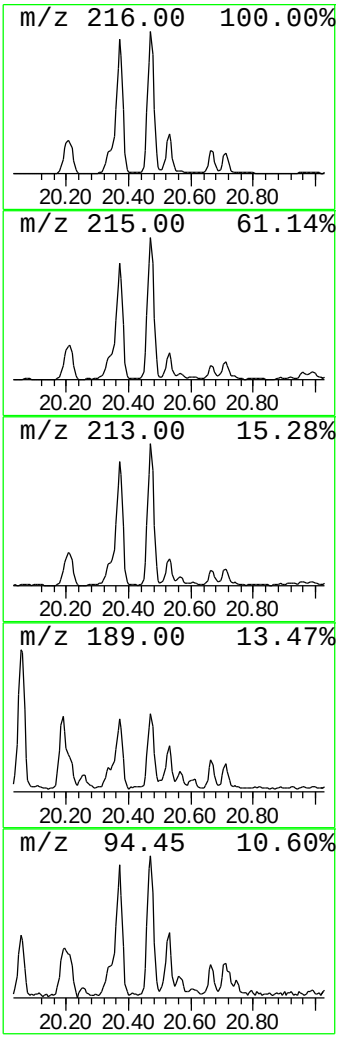
Peak Number 25 Pyrene, 2-methyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.53	3.87 ng/ul	705776	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, 2-methyl-	216	C17H12	003442-78-2	89
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87





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Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N41

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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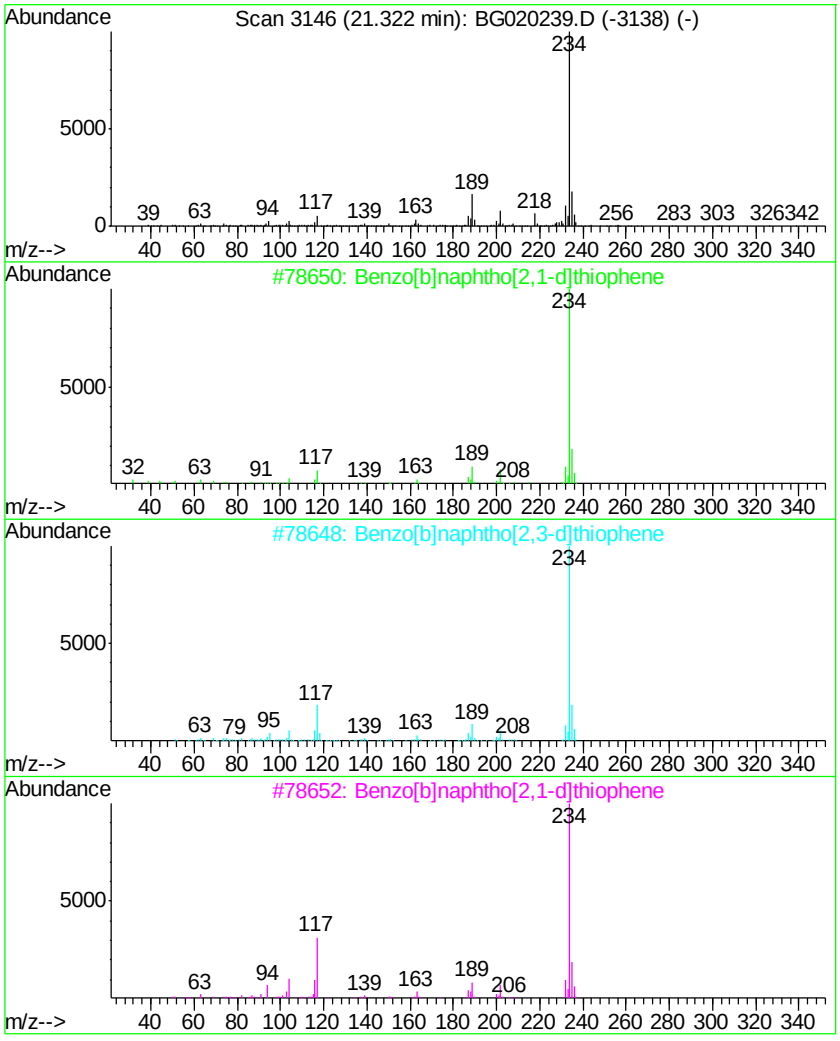
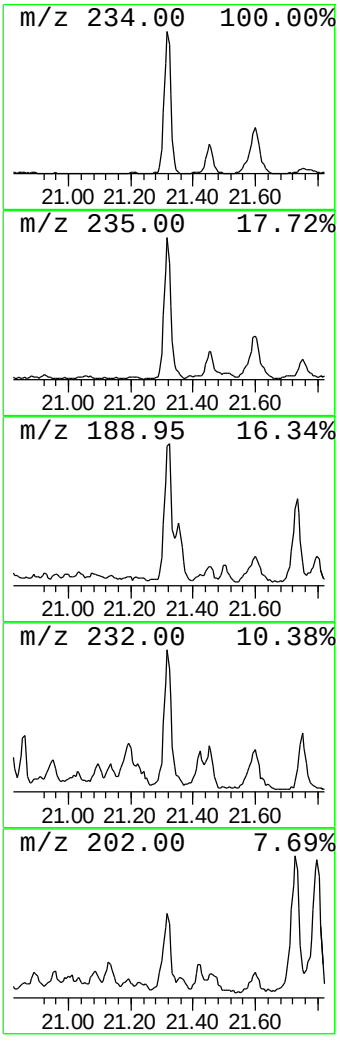
Peak Number 26 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.32	3.13 ng/ul	571726	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	96
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[2,1-d]thiophene	234	C16H10S	000239-35-0	87





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Sample : G4767-19
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N41

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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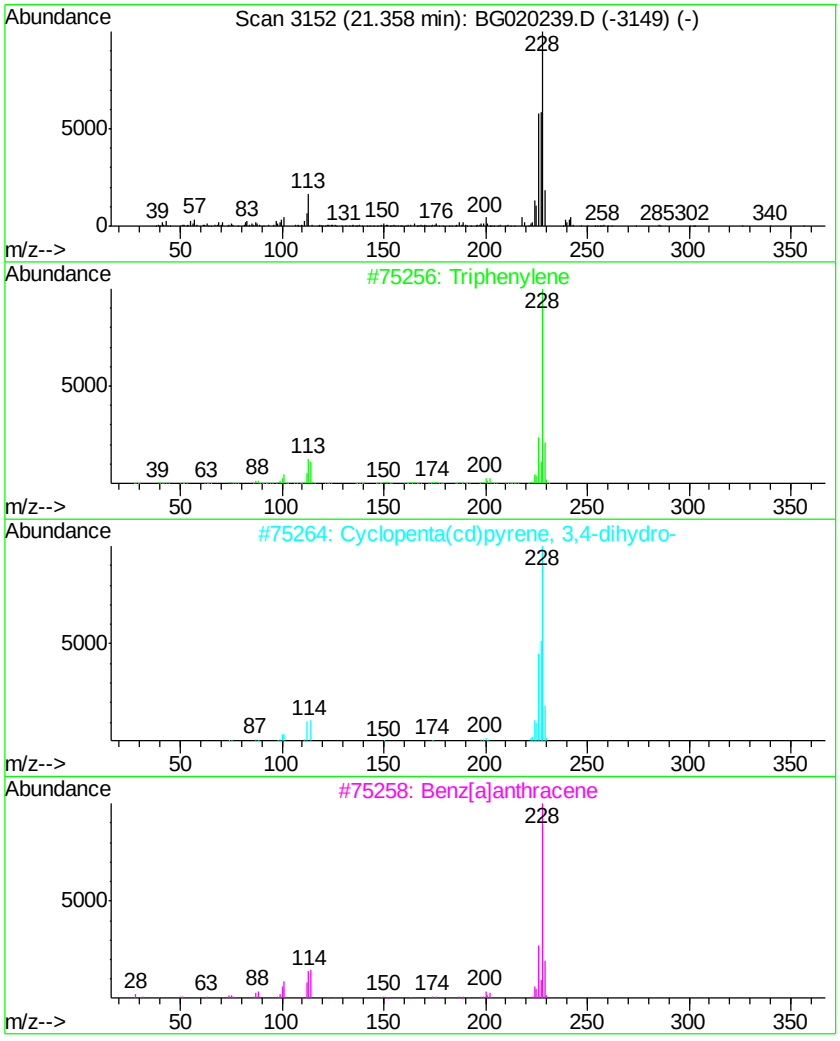
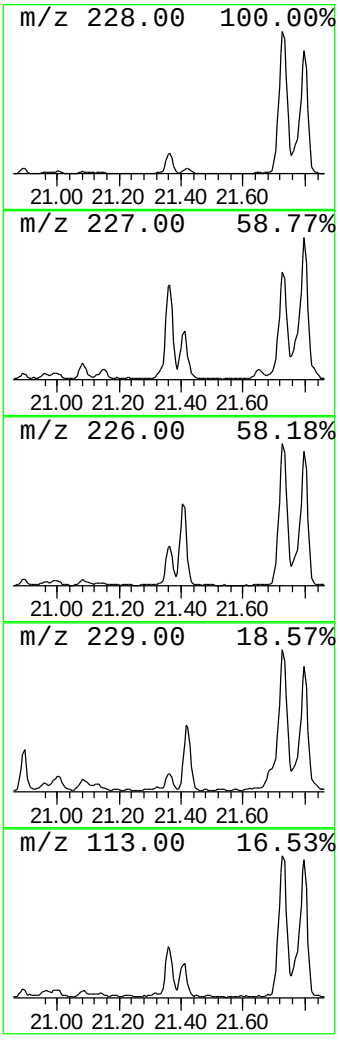
Peak Number 27 Triphenylene Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.36	3.05 ng/ul	557114	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triphenylene	228	C18H12	000217-59-4	55
2	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	52
3	Benz[a]anthracene	228	C18H12	000056-55-3	49
4	Chrysene	228	C18H12	000218-01-9	49
5	Benzo[c]phenanthrene	228	C18H12	000195-19-7	49





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Operator : UM/SJ
Sample : G4767-19
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N41

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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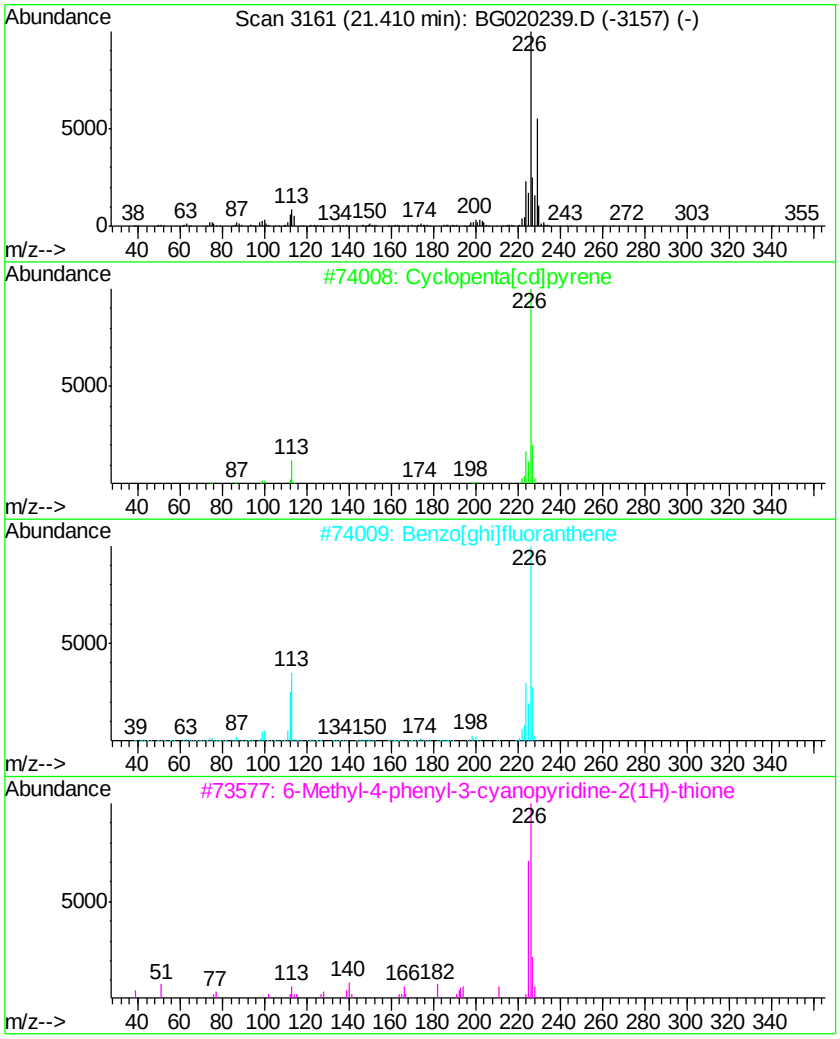
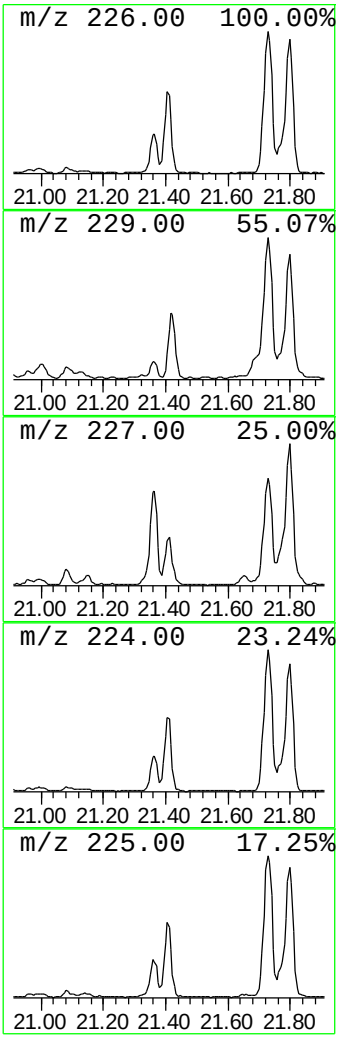
Peak Number 28 unknown-01 Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.41	2.86 ng/ul	522215	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	49
2	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	43
3	6-Methyl-4-phenyl-3-cyanopyridin...	226	C13H10N2S	078564-23-5	37
4	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	37
5	Benzene, 1-bromo-2,6-dichloro-	224	C6H3BrCl2	019393-92-1	37





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Data File : BG020239.D
Acq On : 17 Dec 2015 2:47
Operator : UM/SJ
Sample : G4767-19
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N41

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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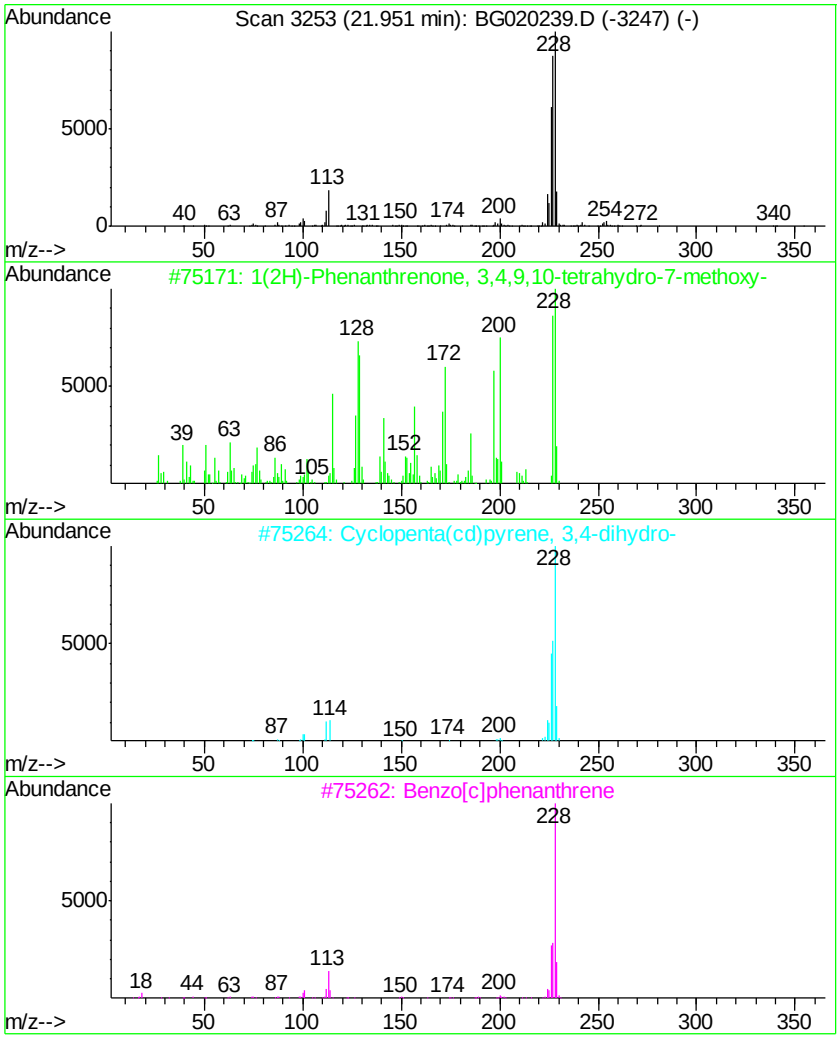
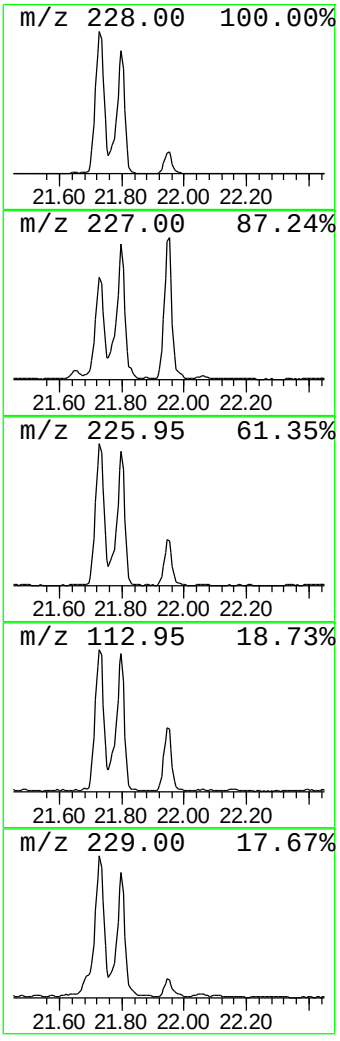
Peak Number 29 1(2H)-Phenanthrenone, 3,4,9... Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.95	3.02 ng/ul	550043	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1(2H)-Phenanthrenone, 3,4,9,10-t...	228	C15H16O2	014427-61-3	50
2	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	49
3	Benzo[c]phenanthrene	228	C18H12	000195-19-7	46
4	Triphenylene	228	C18H12	000217-59-4	43
5	Pyrazole-4-carboxaldehyde-, 3,5-...	228	C14H16N2O	1000272-54-8	42





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Operator : UM/SJ
Sample : G4767-19
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N41

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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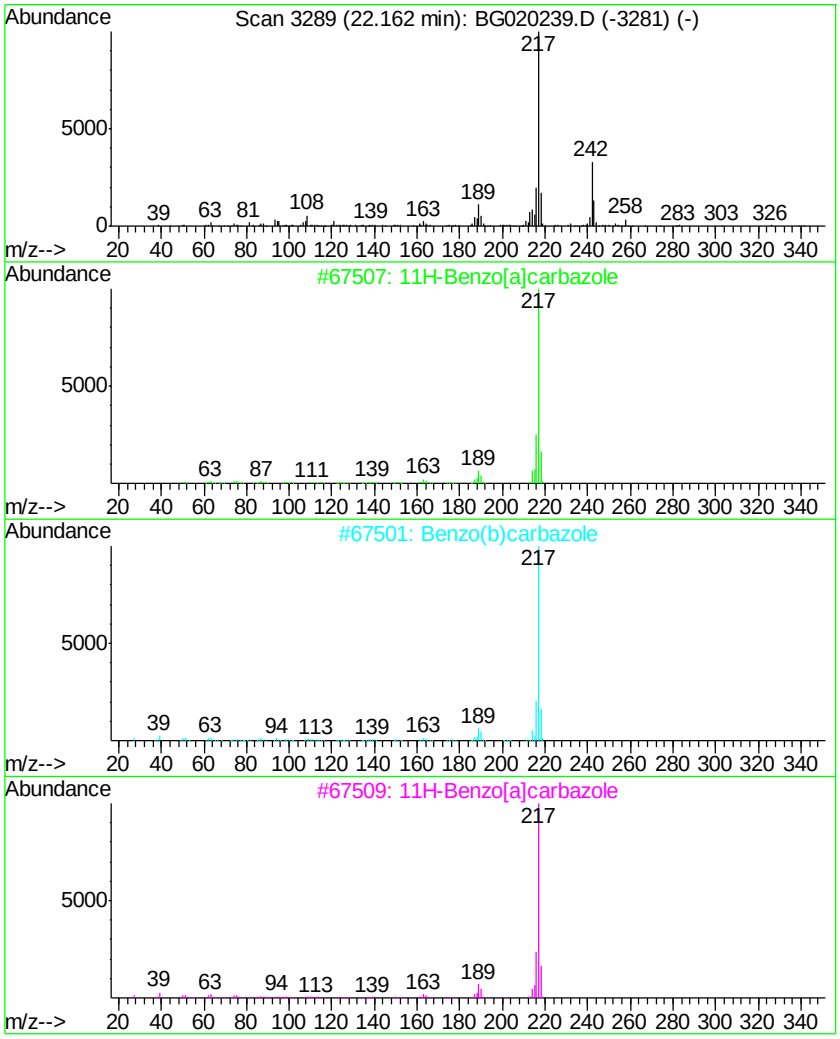
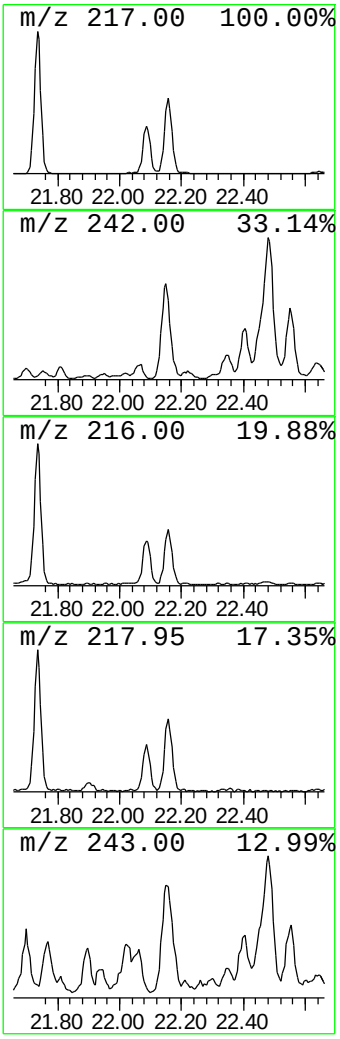
Peak Number 30 11H-Benzo[a]carbazole Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.16	2.15 ng/ul	391451	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	93
2	Benzo(b)carbazole	217	C16H11N	000243-28-7	64
3	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	64
4	7H-Benzo[c]carbazole	217	C16H11N	000205-25-4	64
5	Benzo(c)carbazole	217	C16H11N	034777-33-8	64





Tentatively Identified Compound (LSC) summary

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Acq On : 17 Dec 2015 2:47
Operator : UM/SJ
Sample : G4767-19
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N41

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
Indene	8.64	20.0	ng/ul	411257	1	8.10	411257	20.0
Quinoline	11.75	3.0	ng/ul	1442590	2	10.92	9474060	20.0
Quinoline, 6-methyl-	13.27	10.2	ng/ul	565251	3	14.73	1106980	20.0
Quinoline, 3-methyl-	13.35	4.1	ng/ul	225558	3	14.73	1106980	20.0
Naphthalene, 1-et...	13.76	14.8	ng/ul	820560	3	14.73	1106980	20.0
Naphthalene, 2,3-...	14.05	24.5	ng/ul	1357960	3	14.73	1106980	20.0
1-Isopropenylnaph...	15.04	8.4	ng/ul	465312	3	14.73	1106980	20.0
Naphthalene, 2,3,...	15.20	5.5	ng/ul	304673	3	14.73	1106980	20.0
Acetamide, N-cycl...	15.94	22.5	ng/ul	1247740	3	14.73	1106980	20.0
1,1'-Biphenyl, 2-...	16.03	10.5	ng/ul	582521	3	14.73	1106980	20.0
9H-Fluoren-9-ol	16.07	23.8	ng/ul	1315080	3	14.73	1106980	20.0
4H-Cyclopenta[def...	18.55	3.6	ng/ul	4369660	4	17.49	24213400	20.0
1,6-Dimethylphena...	19.77	2.5	ng/ul	463517	5	21.75	3648220	20.0
Benzo[kl]xanthene	20.06	3.0	ng/ul	551083	5	21.75	3648220	20.0
Pyrene, 1-methyl-	20.19	2.7	ng/ul	484540	5	21.75	3648220	20.0
4-Amino-9-fluorenone	20.32	2.6	ng/ul	483742	5	21.75	3648220	20.0
11H-Benzo[b]fluorene	20.37	8.7	ng/ul	1585420	5	21.75	3648220	20.0
Pyrene, 2-methyl-	20.53	3.9	ng/ul	705776	5	21.75	3648220	20.0
Benzo[b]naphtho[2...	21.32	3.1	ng/ul	571726	5	21.75	3648220	20.0
Triphenylene	21.36	3.0	ng/ul	557114	5	21.75	3648220	20.0
unknown-01	21.41	2.9	ng/ul	522215	5	21.75	3648220	20.0
1(2H)-Phenanthren...	21.95	3.0	ng/ul	550043	5	21.75	3648220	20.0
11H-Benzo[a]carba...	22.16	2.1	ng/ul	391451	5	21.75	3648220	20.0