LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020751.D
Acq On : 15 Jan 2016 14:04
Operator : SJ/IZ
Sample : H1101-13 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F4

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-BG011216.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	3.055	31	37	41	rBV	12918	24515	2.85%	0.217%
2	3.132	46	50	56	rVV2	14660	22478	2.61%	0.199%
3	8.044	879	886	895	rBV	61691	106480	12.37%	0.941%
4	10.858	1356	1365	1372	rBV	90385	163490	18.99%	1.444%
5	14.378	1957	1964	1968	rBV	10514	17602	2.04%	0.155%
6	14.683	2006	2016	2022	rBV2	162338	256455	29.78%	2.265%
7	14.748	2022	2027	2033	rVB2	12741	20649	2.40%	0.182%
8	15.077	2075	2083	2090	rVV2	10191	16619	1.93%	0.147%
9	15.670	2180	2184	2188	rVV	17174	23839	2.77%	0.211%
10	15.729	2188	2194	2204	rVB3	20352	33922	3.94%	0.300%
11	16.393	2304	2307	2314	rVB5	11781	18703	2.17%	0.165%
12	17.086	2420	2425	2430	rBV3	13707	22518	2.62%	0.199%
13	17.157	2432	2437	2442	rVV5	12195	19609	2.28%	0.173%
14	17.245	2448	2452	2460	rVB	20600	33205	3.86%	0.293%
15	17.427	2477	2483	2487	rBV2	212671	337300	39.17%	2.979%
16	17.468	2487	2490	2496	rVV	282178	417272	48.46%	3.686%
17	17.527	2496	2500	2503	rVV2	18665	28032	3.26%	0.248%
18	17.562	2503	2506	2510	rVV	35835	45437	5.28%	0.401%
19	17.621	2510	2516	2521	rVB3	10303	20535	2.38%	0.181%
20	17.832	2546	2552	2559	rBV2	21572	44588	5.18%	0.394%
21	18.009	2576	2582	2590	rVB	34232	56163	6.52%	0.496%
22	18.150	2602	2606	2614	rVB	19426	38047	4.42%	0.336%
23	18.302	2626	2632	2636	rBV	100418	153204	17.79%	1.353%
24	18.355	2636	2641	2647	rVB	122488	189024	21.95%	1.670%
25	18.432	2647	2654	2659	rBV	18299	35104	4.08%	0.310%
26	18.490	2659	2664	2669	rBV3	98646	198128	23.01%	1.750%
27	18.531	2669	2671	2677	rVB	70341	91626	10.64%	0.809%
28	18.696	2694	2699	2703	rVB2	16854	24850	2.89%	0.220%
29	18.796	2711	2716	2720	rBV	59156	84245	9.78%	0.744%
30	18.849	2720	2725	2733	rVB2	72415	124388	14.45%	1.099%
31	18.966	2741	2745	2749	rVB2	9241	16887	1.96%	0.149%
32	19.043	2749	2758	2762	rBV2	41474	81988	9.52%	0.724%
33	19.090	2762	2766	2770	rBV	54853	68954	8.01%	0.609%
34	19.131	2770	2773	2777	rVB2	41334	52059	6.05%	0.460%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020751.D
Acq On : 15 Jan 2016 14:04
Operator : SJ/IZ
Sample : H1101-13 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F4

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-BG011216.M
Title : SVOA CALIBRATION

35	19.213	2781	2787	2791	rBV	126545	194764	22.62%	1.720%
36	19.272	2791	2797	2801	rVV2	36056	69899	8.12%	0.617%
37	19.307	2801	2803	2806	rVB	31619	30946	3.59%	0.273%
38	19.360	2806	2812	2817	rBV5	45657	105788	12.29%	0.934%
39	19.477	2825	2832	2838	rBV	442327	647402	75.19%	5.719%
40	19.536	2838	2842	2845	rBV2	27869	40468	4.70%	0.357%
41	19.571	2845	2848	2854	rVB2	27890	35954	4.18%	0.318%
42	19.677	2862	2866	2869	rBV3	15864	18273	2.12%	0.161%
43	19.718	2869	2873	2877	rBV2	25185	39721	4.61%	0.351%
44	19.812	2883	2889	2890	rBV2	90242	130375	15.14%	1.152%
45	19.842	2890	2894	2901	rVB	485394	739131	85.84%	6.529%
46	19.912	2901	2906	2912	rVB	71731	112796	13.10%	0.996%
47	19.983	2912	2918	2919	rBV2	20973	31264	3.63%	0.276%
48	20.024	2922	2925	2929	rVB2	34695	52154	6.06%	0.461%
49	20.071	2929	2933	2941	rVB3	33180	66344	7.71%	0.586%
50	20.171	2942	2950	2956	rBV5	63929	176329	20.48%	1.558%
51	20.253	2957	2964	2967	rBV6	12046	26379	3.06%	0.233%
52	20.329	2967	2977	2982	rVB	103912	256673	29.81%	2.267%
53	20.429	2986	2994	2998	rBV	72960	121107	14.07%	1.070%
54	20.488	2998	3004	3008	rBV2	96352	138001	16.03%	1.219%
55	20.523	3008	3010	3015	rVB4	22455	27338	3.17%	0.241%
56	20.570	3015	3018	3023	rVB5	11116	16536	1.92%	0.146%
57	20.629	3024	3028	3032	rBV	82827	109542	12.72%	0.968%
58	20.676	3032	3036	3039	rBV	62521	75177	8.73%	0.664%
59	20.882	3067	3071	3074	rBV2	40886	60440	7.02%	0.534%
60	20.923	3074	3078	3081	rVV6	17405	29856	3.47%	0.264%
61	20.993	3088	3090	3095	rVB5	13986	16924	1.97%	0.149%
62	21.046	3095	3099	3103	rVV7	18024	34344	3.99%	0.303%
63	21.099	3103	3108	3114	rVB	60921	106010	12.31%	0.936%
64	21.193	3120	3124	3129	rVB	26508	39625	4.60%	0.350%
65	21.281	3129	3139	3143	rBV3	84360	198715	23.08%	1.755%
66	21.322	3143	3146	3150	rVB	53896	72282	8.39%	0.638%
67	21.369	3150	3154	3159	rBV2	37742	71410	8.29%	0.631%
68	21.434	3159	3165	3173	rVB2	42763	94818	11.01%	0.838%
69	21.563	3179	3187	3193	rBV3	22766	56458	6.56%	0.499%
70	21.698	3201	3210	3215	rBV2	333412	861046	100.00%	7.606%
71	21.751	3215	3219	3230	rVB	234872	418809	48.64%	3.699%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020751.D
Acq On : 15 Jan 2016 14:04
Operator : SJ/IZ
Sample : H1101-13 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F4

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-BG011216.M
Title : SVOA CALIBRATION

72	21.845	3230	3235	3241	rBV3	28830	54008	6.27%	0.477%
73	21.904	3241	3245	3249	rBV	31386	51962	6.03%	0.459%
74	21.980	3254	3258	3265	rVB7	21993	53329	6.19%	0.471%
75	22.116	3276	3281	3287	rBV3	27462	53043	6.16%	0.469%
76	22.180	3287	3292	3297	rBV3	19383	35805	4.16%	0.316%
77	22.356	3318	3322	3326	rBV	17232	28567	3.32%	0.252%
78	22.433	3327	3335	3343	rVB	73728	173953	20.20%	1.537%
79	22.509	3343	3348	3357	rVB2	43688	84020	9.76%	0.742%
80	22.591	3359	3362	3367	rVB5	13965	23899	2.78%	0.211%
81	22.650	3369	3372	3377	rVB3	17178	29365	3.41%	0.259%
82	22.715	3378	3383	3387	rBV2	32823	60028	6.97%	0.530%
83	22.850	3402	3406	3414	rVB3	23852	50853	5.91%	0.449%
84	23.291	3477	3481	3483	rBV2	12650	17533	2.04%	0.155%
85	23.467	3506	3511	3517	rBV5	8982	20950	2.43%	0.185%
86	23.549	3521	3525	3532	rVB8	18176	42915	4.98%	0.379%
87	23.925	3580	3589	3596	rBV	123608	438062	50.88%	3.869%
88	24.184	3626	3633	3640	rBV	23501	55994	6.50%	0.495%
89	24.383	3661	3667	3672	rBV8	12048	34369	3.99%	0.304%
90	24.654	3703	3713	3721	rBV2	89307	252719	29.35%	2.232%
91	24.801	3730	3738	3749	rVB	122214	355892	41.33%	3.144%
92	24.953	3753	3764	3772	rVV2	135085	415958	48.31%	3.674%
93	25.036	3774	3778	3792	rVB4	31870	109122	12.67%	0.964%
94	25.735	3890	3897	3898	rBV7	12484	20660	2.40%	0.182%
95	25.829	3906	3913	3929	rVB3	22619	88904	10.33%	0.785%
96	26.034	3937	3948	3957	rBV6	15167	54325	6.31%	0.480%
97	28.673	4385	4397	4415	rVB2	51350	246045	28.58%	2.173%
98	29.148	4471	4478	4488	rVB3	12128	40532	4.71%	0.358%
99	29.289	4493	4502	4503	rBV8	11401	21577	2.51%	0.191%
100	29.848	4580	4597	4609	rBV3	38804	195613	22.72%	1.728%

Sum of corrected areas: 11321015

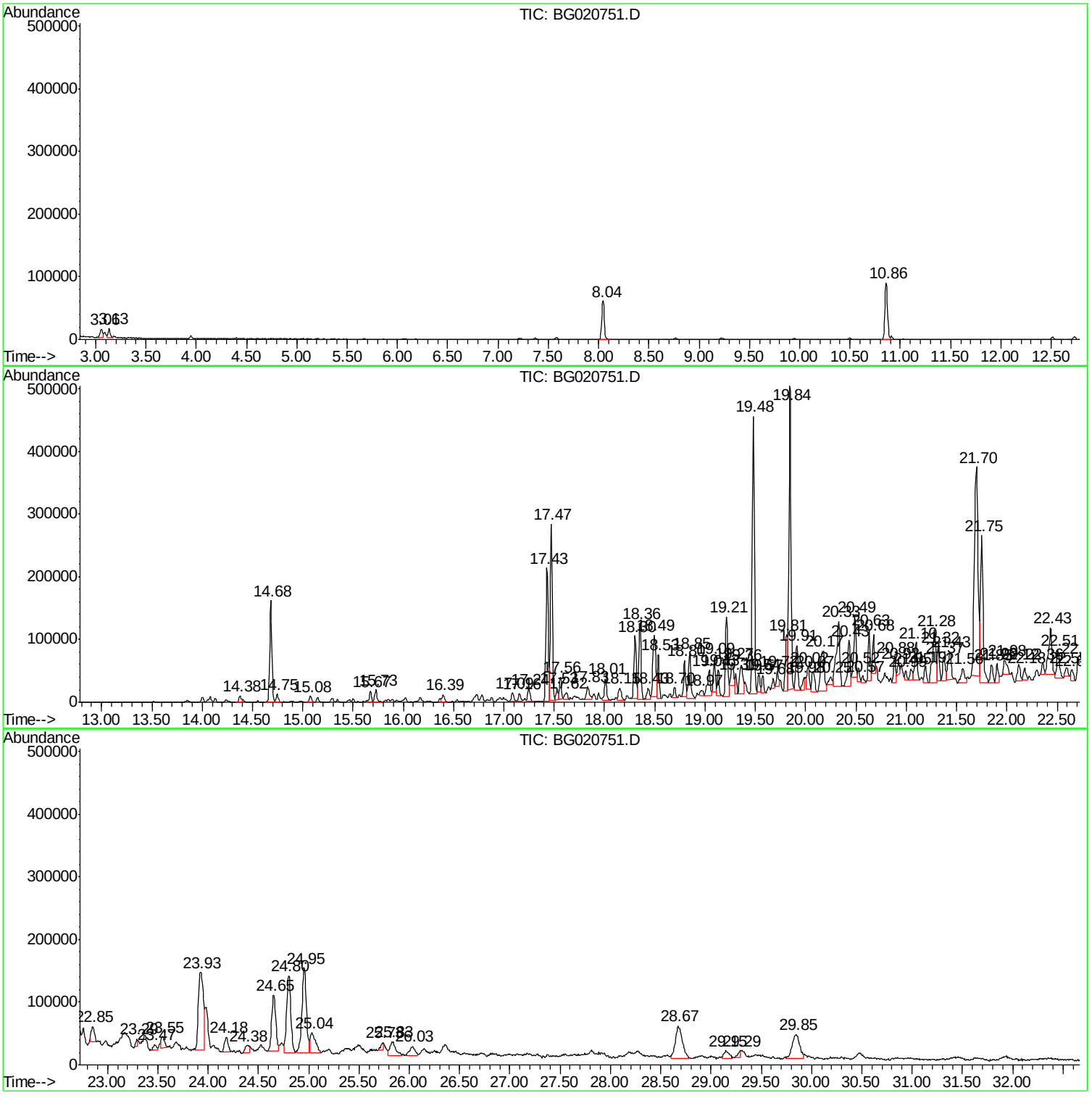
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020751.D
Acq On : 15 Jan 2016 14:04
Operator : SJ/IZ
Sample : H1101-13 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.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\BG011516\
Data File : BG020751.D
Acq On : 15 Jan 2016 14:04
Operator : SJ/IZ
Sample : H1101-13 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

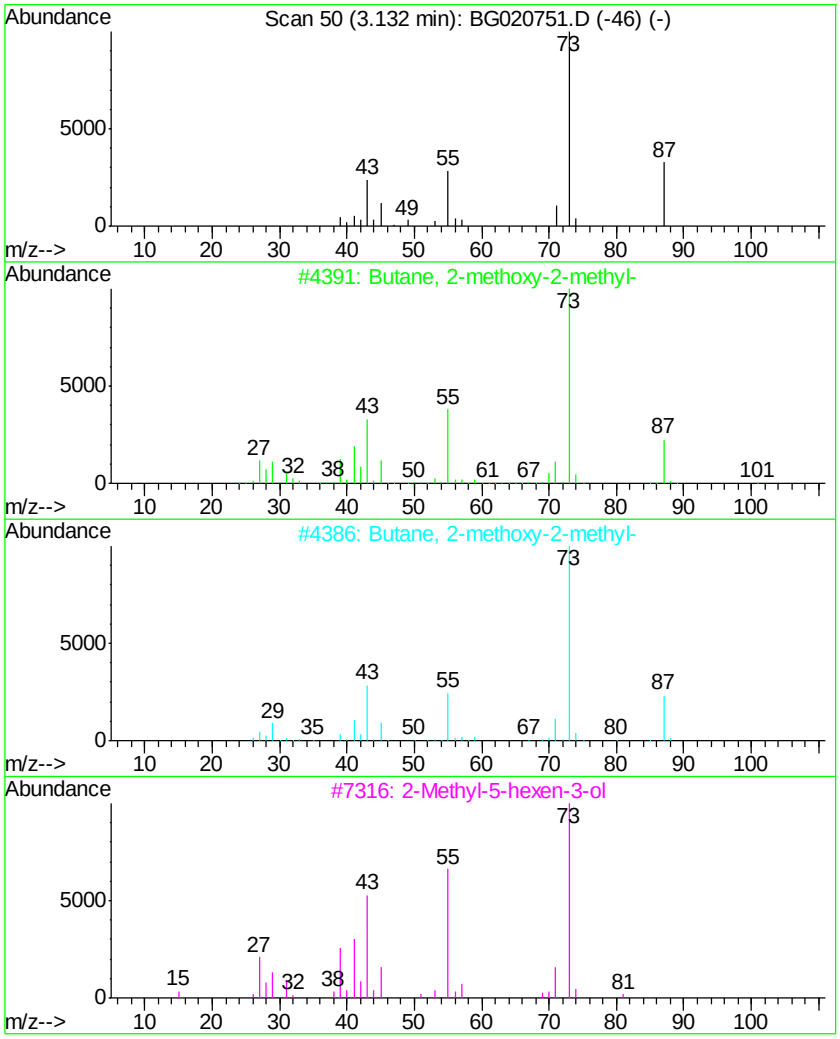
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

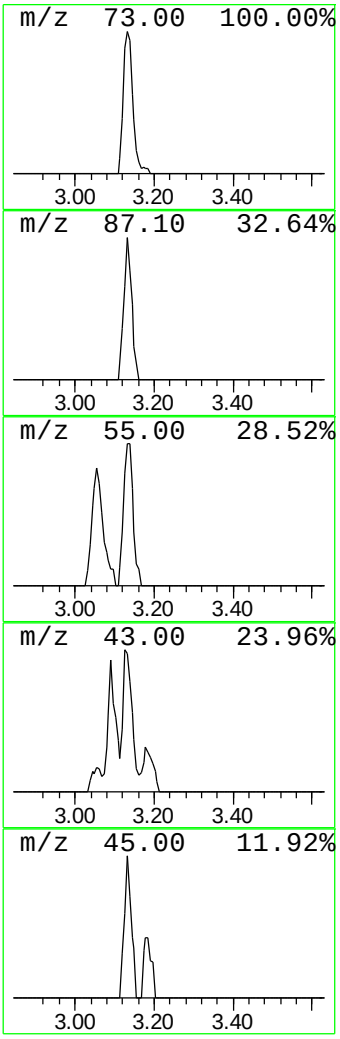
****

Peak Number 2 Butane, 2-methoxy-2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.13	4.22 ng/ul	22478	1,4-Dichlorobenzene-d4	8.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	56
2	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	56
3	2-Methyl-5-hexen-3-ol	114	C7H14O	032815-70-6	25
4	Acetic acid, 3-[1,3]dioxolan-2-y...	174	C8H14O4	1000186-02-3	17
5	Silane, tetramethyl-	88	C4H12Si	000075-76-3	9





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020751.D
Acq On : 15 Jan 2016 14:04
Operator : SJ/IZ
Sample : H1101-13 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

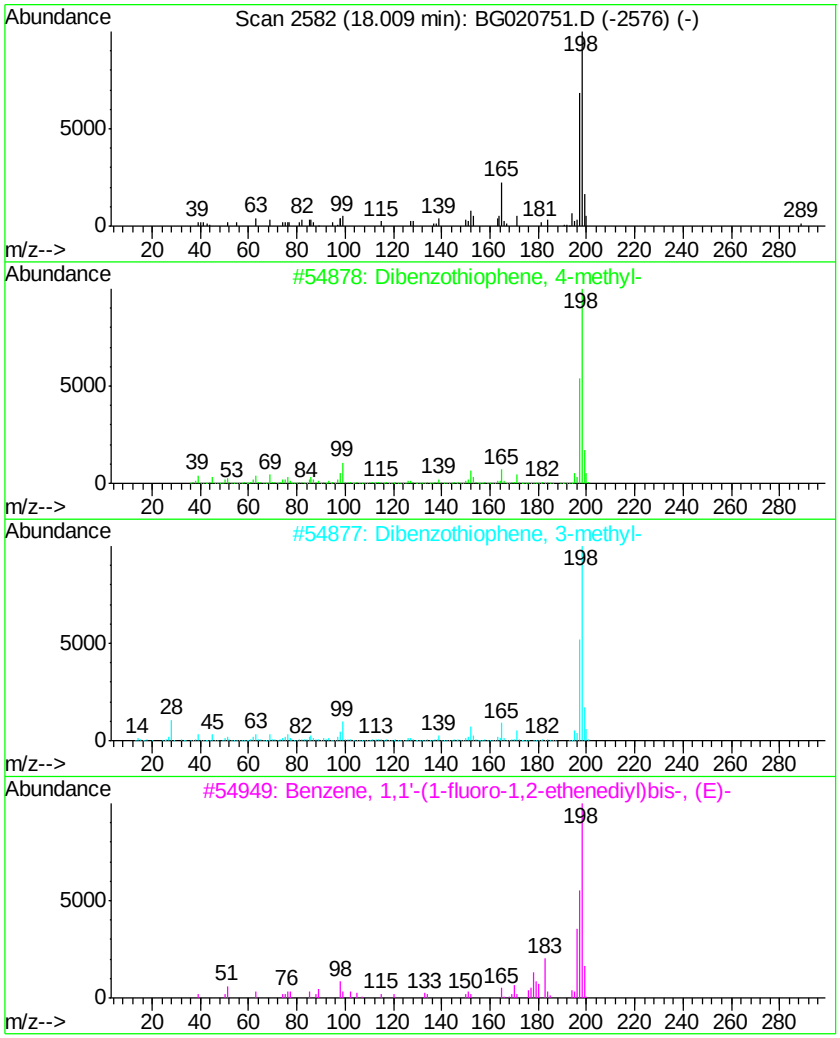
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

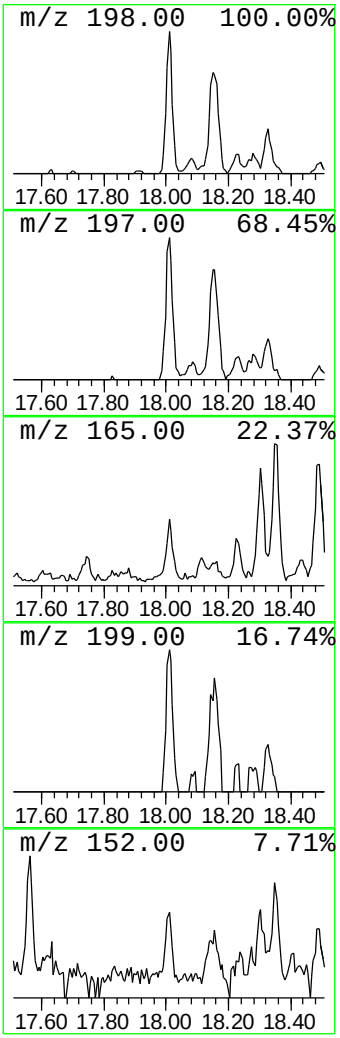
****

Peak Number 3 Dibenzothiophene, 4-methyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.01	3.33 ng/ul	56163	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	87
2	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	72
3	Benzene, 1,1'-(1-fluoro-1,2-ethe...	198	C14H11F	000671-19-2	64
4	9-Acridinamine, 1,2,3,4-tetrahydro-	198	C13H14N2	000321-64-2	64
5	Benzene, 1-fluoro-4-(2-phenyleth...	198	C14H11F	017404-69-2	64





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020751.D
Acq On : 15 Jan 2016 14:04
Operator : SJ/IZ
Sample : H1101-13 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

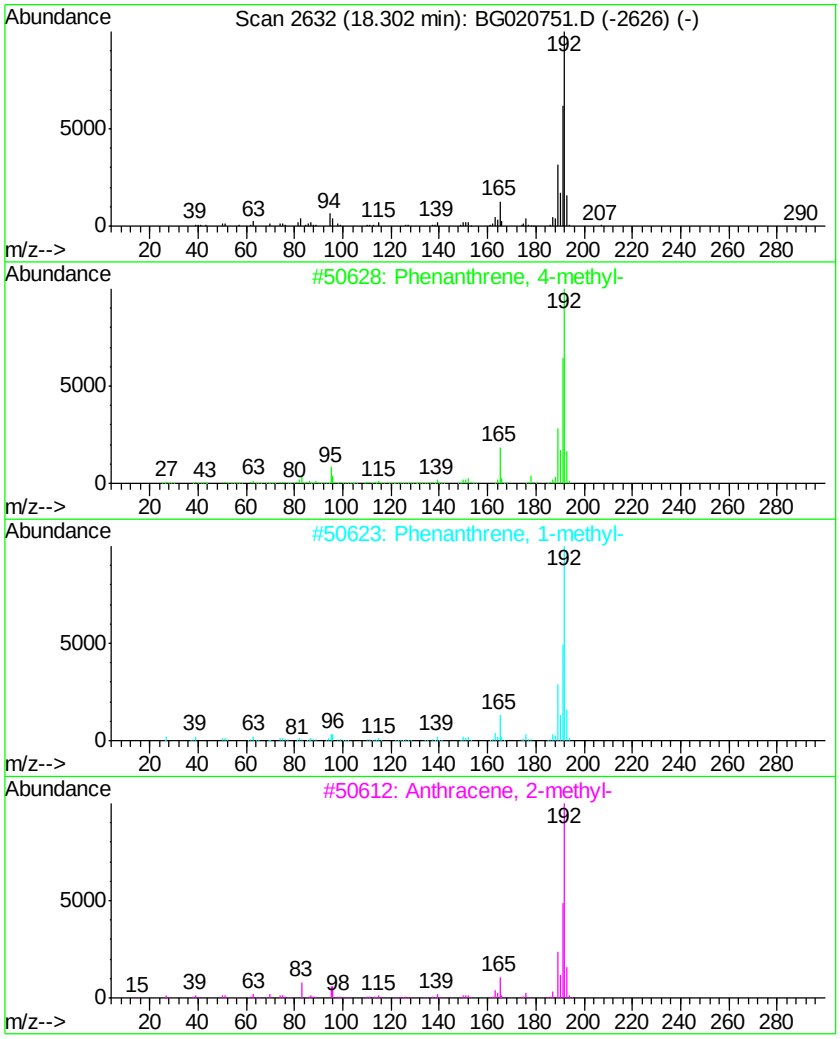
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

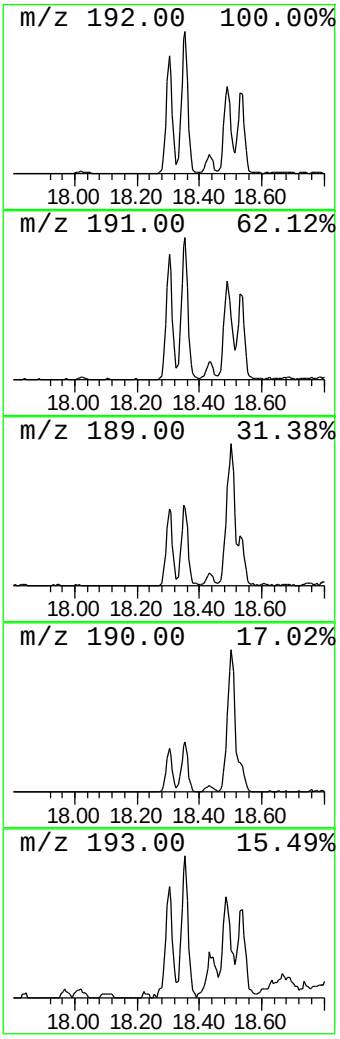
****

Peak Number 5 Phenanthrene, 4-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.30	9.08 ng/ul	153204	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020751.D
Acq On : 15 Jan 2016 14:04
Operator : SJ/IZ
Sample : H1101-13 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

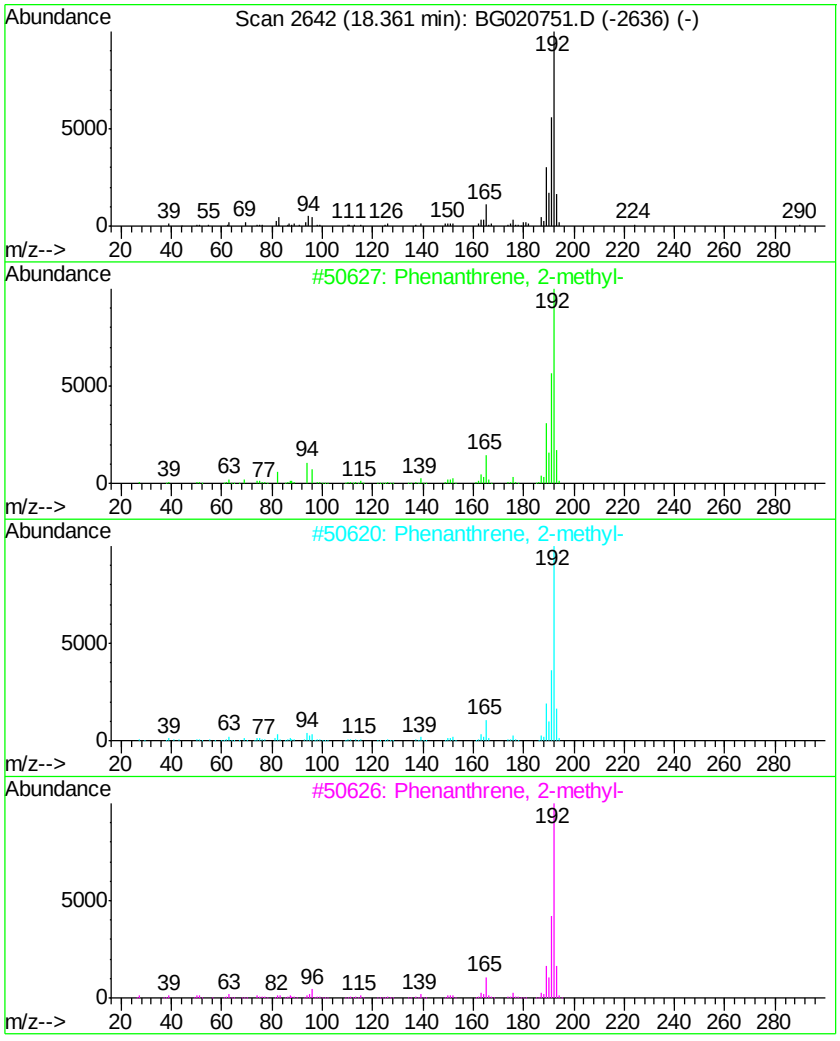
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

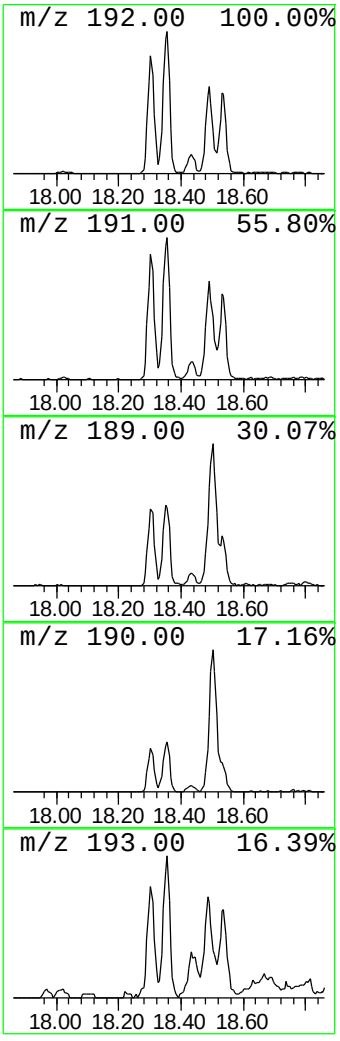
****

Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.36	11.21 ng/ul	189024	Phenanthrene-d10	17.43

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





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020751.D
Acq On : 15 Jan 2016 14:04
Operator : SJ/IZ
Sample : H1101-13 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

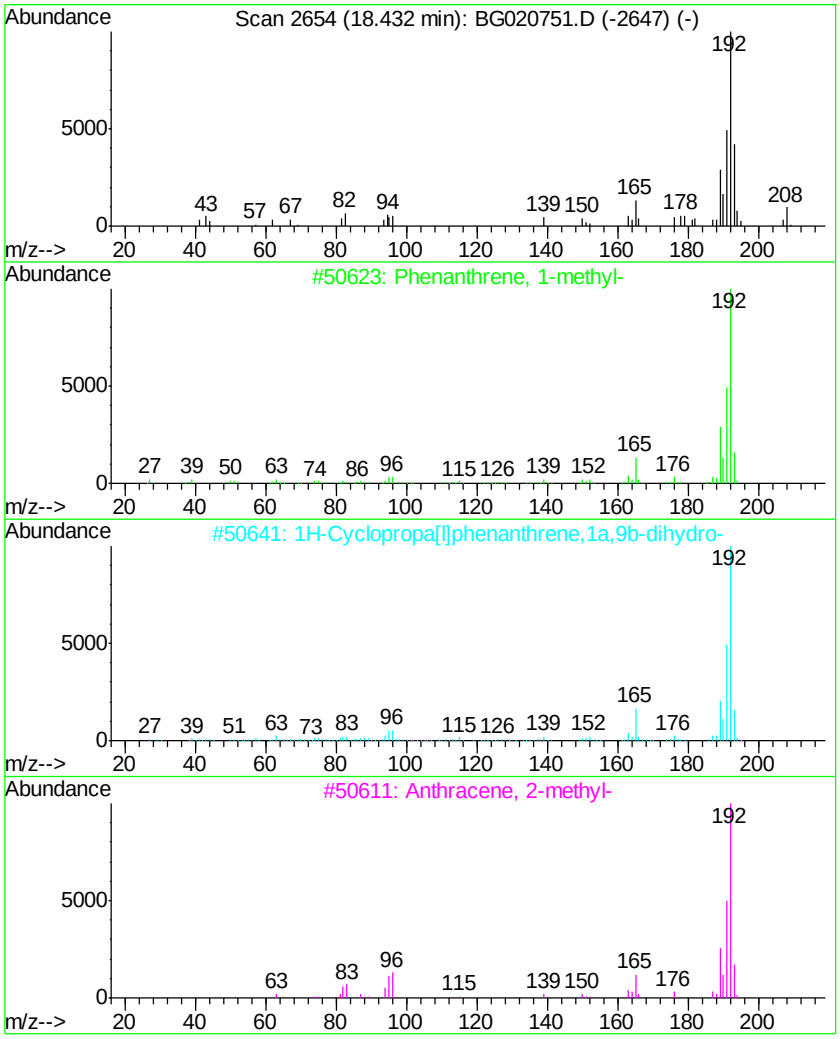
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

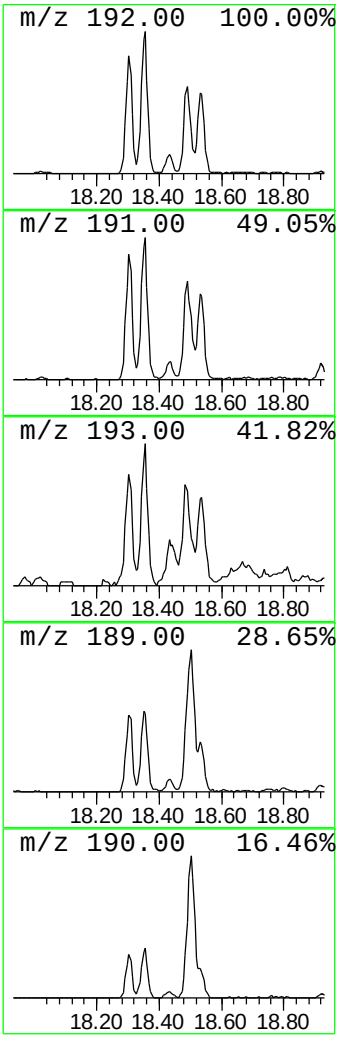
****

Peak Number 7 Phenanthrene, 1-methyl- Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.43	2.08 ng/ul	35104	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	92
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	86
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	70
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	70





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Acq On : 15 Jan 2016 14:04
Operator : SJ/IZ
Sample : H1101-13 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F4

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Quant Title : SVOA CALIBRATION

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

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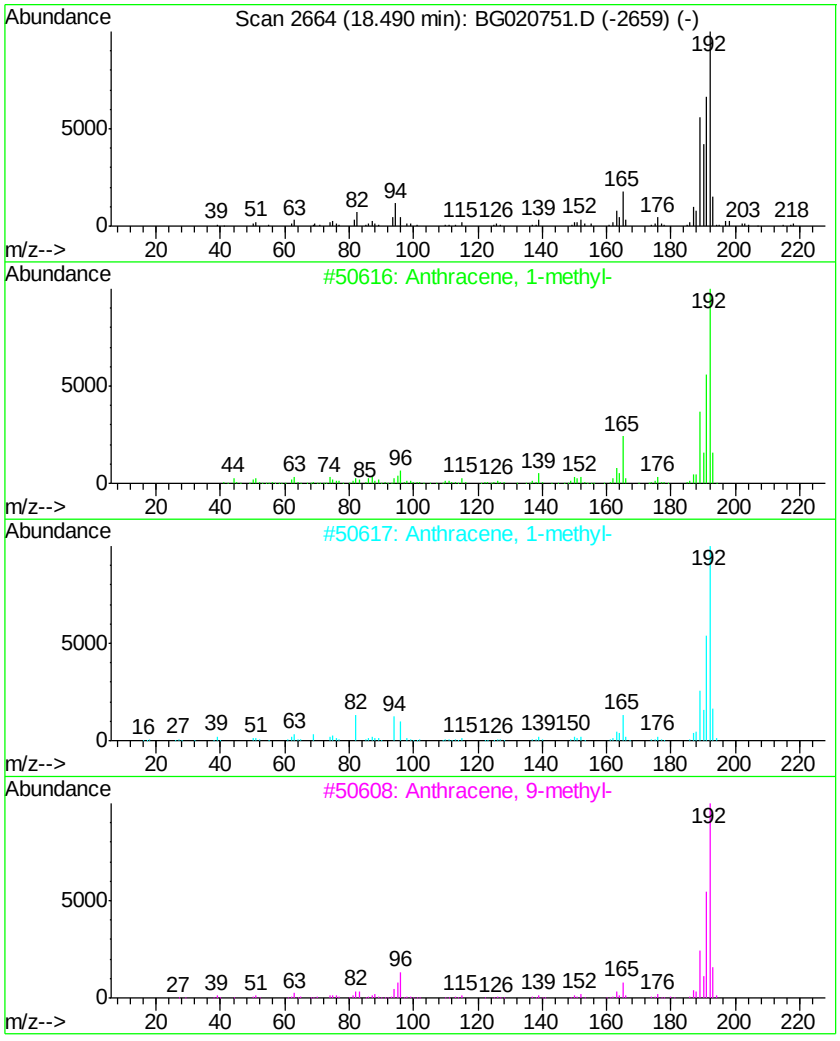
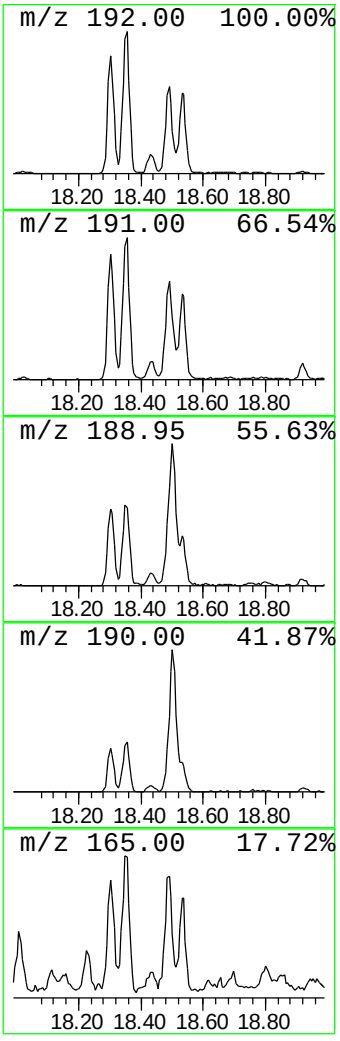
Peak Number 8 Anthracene, 1-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.49	11.75 ng/ul	198128	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	83
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	64
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	64
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	60





Library Search Compound Report

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Sample : H1101-13 10X
Misc :
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Instrument : BNA_G
ClientSampleId : BC9F4

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Quant Title : SVOA CALIBRATION

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

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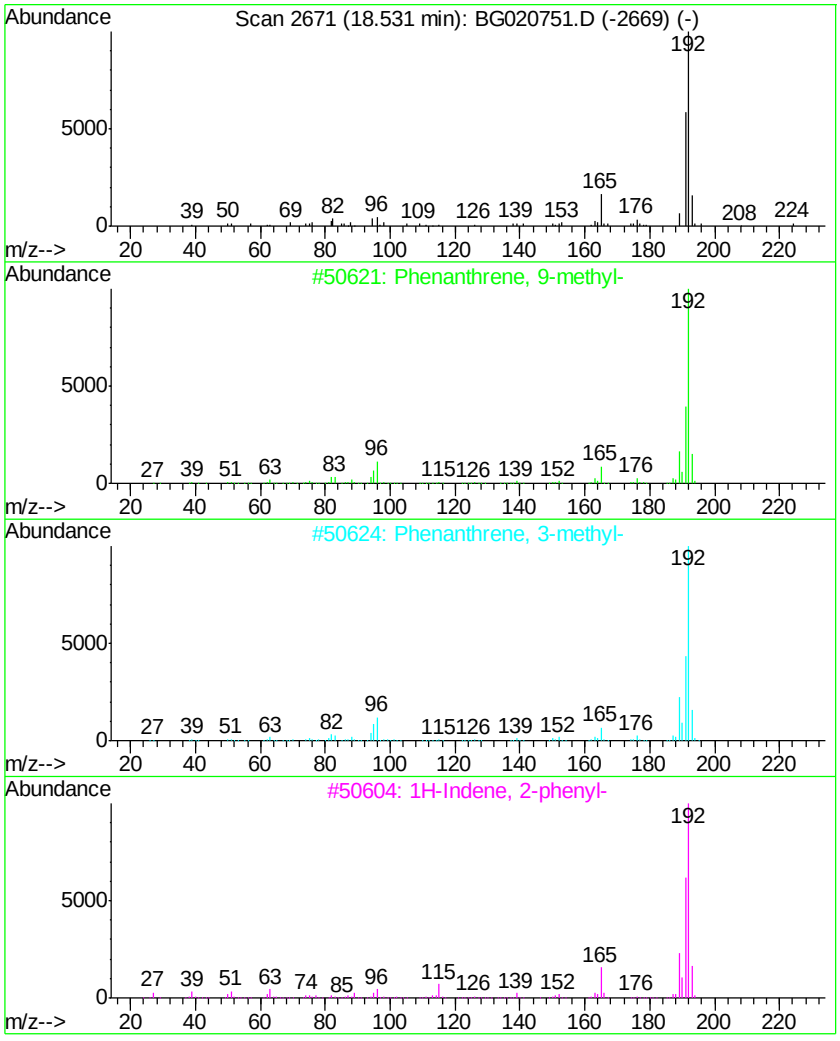
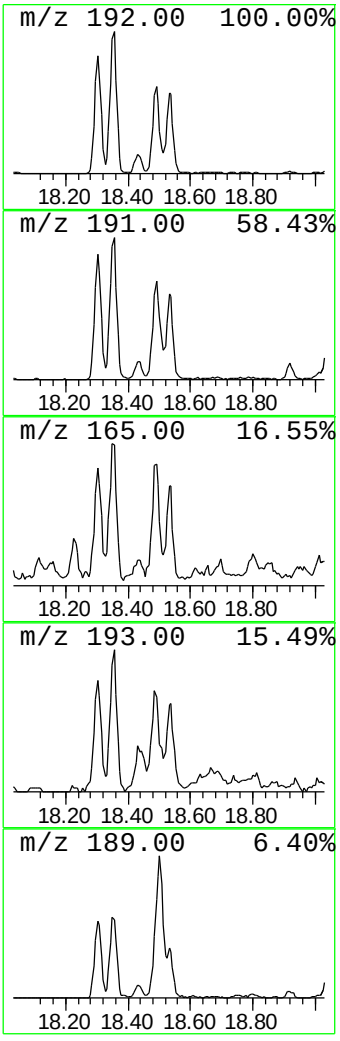
Peak Number 9 Phenanthrene, 9-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.53	5.43 ng/ul	91626	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 9-methyl-	192	C15H12	000883-20-5	90
2	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	87
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	87
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	86
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	86





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Sample : H1101-13 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F4

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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 2-Phenylnaphthalene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.80	5.00 ng/ul	84245	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenylnaphthalene	204	C16H12	035465-71-5	70
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	64
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	55
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	50
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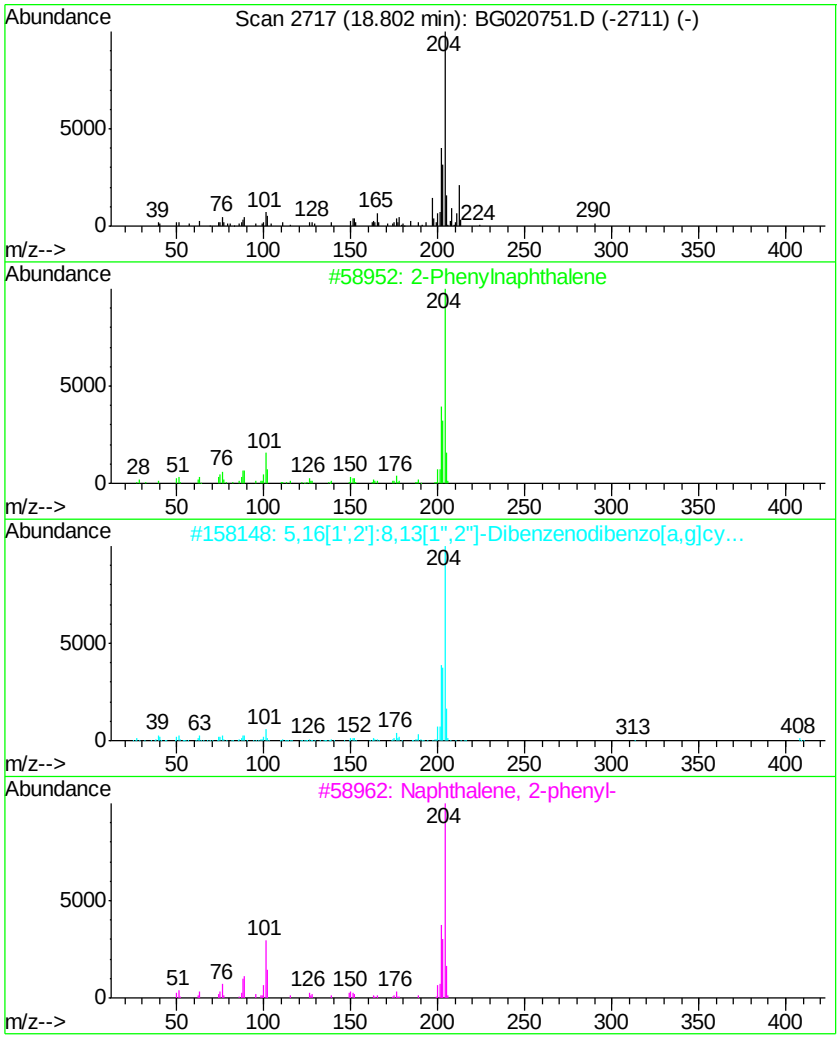

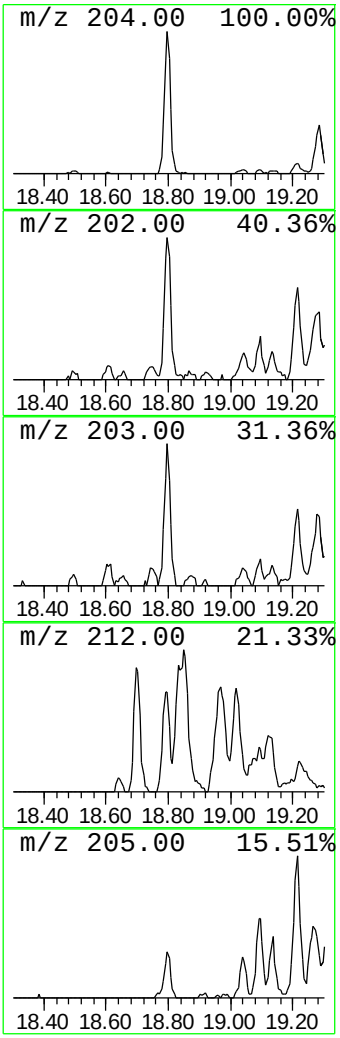

Library Search Compound Report

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Operator : SJ/IZ
Sample : H1101-13 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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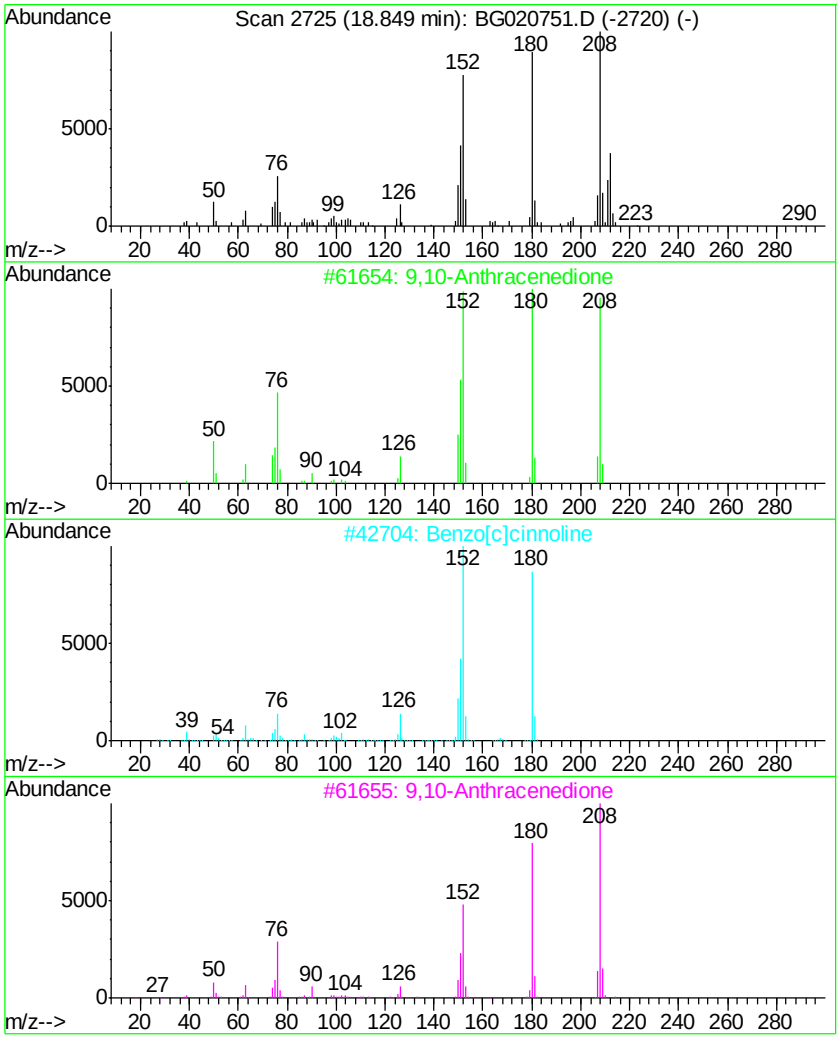
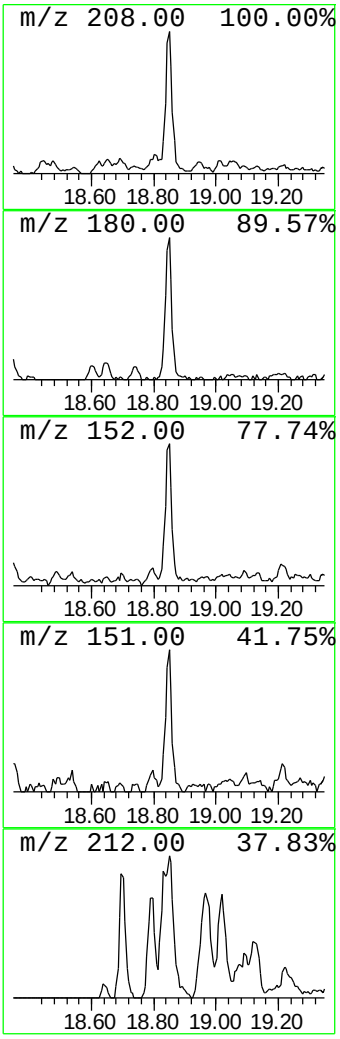
Peak Number 11 9,10-Anthracenedione Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.85	7.38 ng/ul	124388	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	95
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	91
4	9,10-Anthracenedione	208	C14H8O2	000084-65-1	90
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	64





Library Search Compound Report

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Sample : H1101-13 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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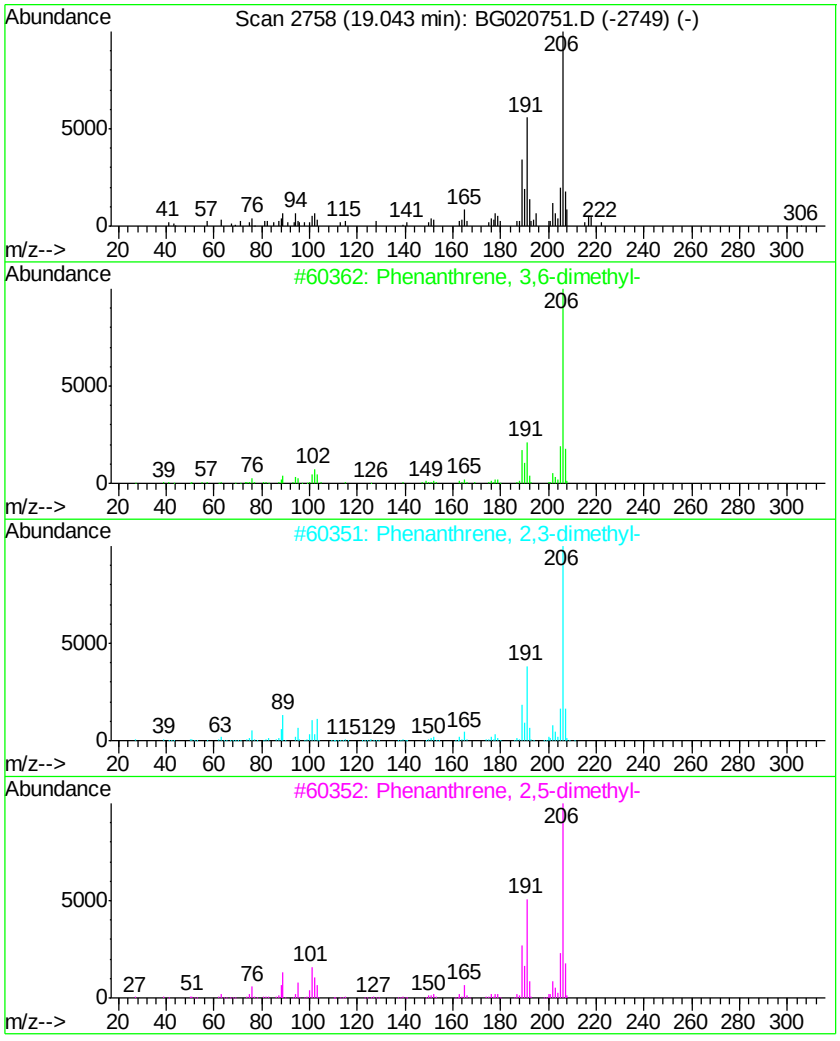
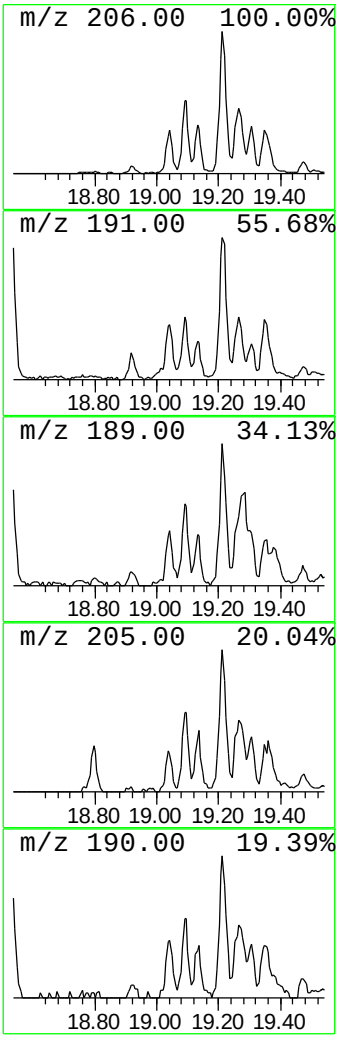
Peak Number 12 Phenanthrene, 3,6-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.04	4.86 ng/ul	81988	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	94
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
5	3-Methyl-1-phenyl-1H-indene	206	C16H14	022360-63-0	89





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Operator : SJ/IZ
Sample : H1101-13 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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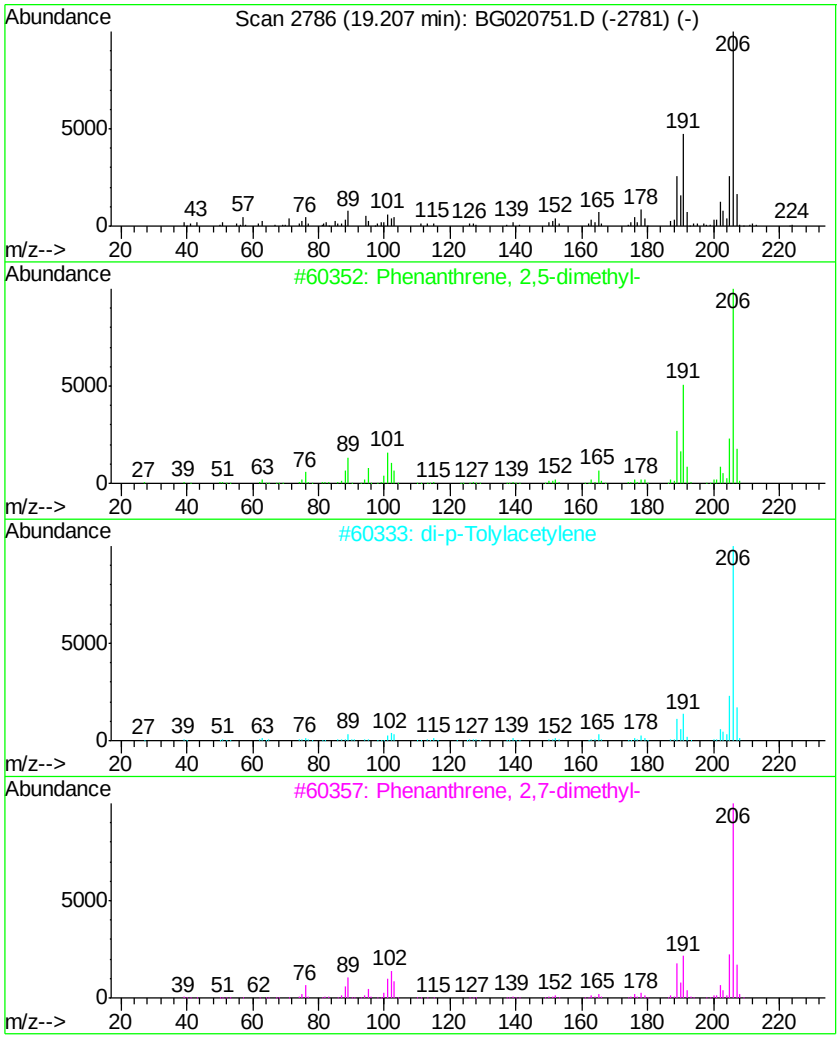
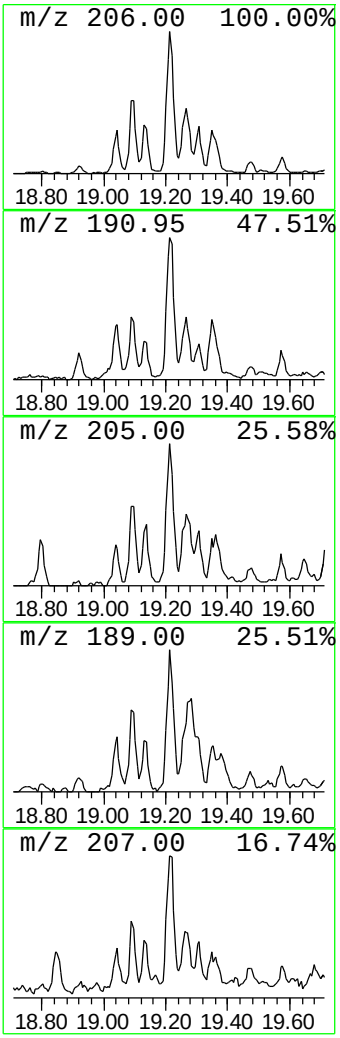
Peak Number 15 Phenanthrene, 2,5-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.21	11.55 ng/ul	194764	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	91
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
3	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	90
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	90
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	87





Library Search Compound Report

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Sample : H1101-13 10X
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Instrument : BNA_G
ClientSampleId : BC9F4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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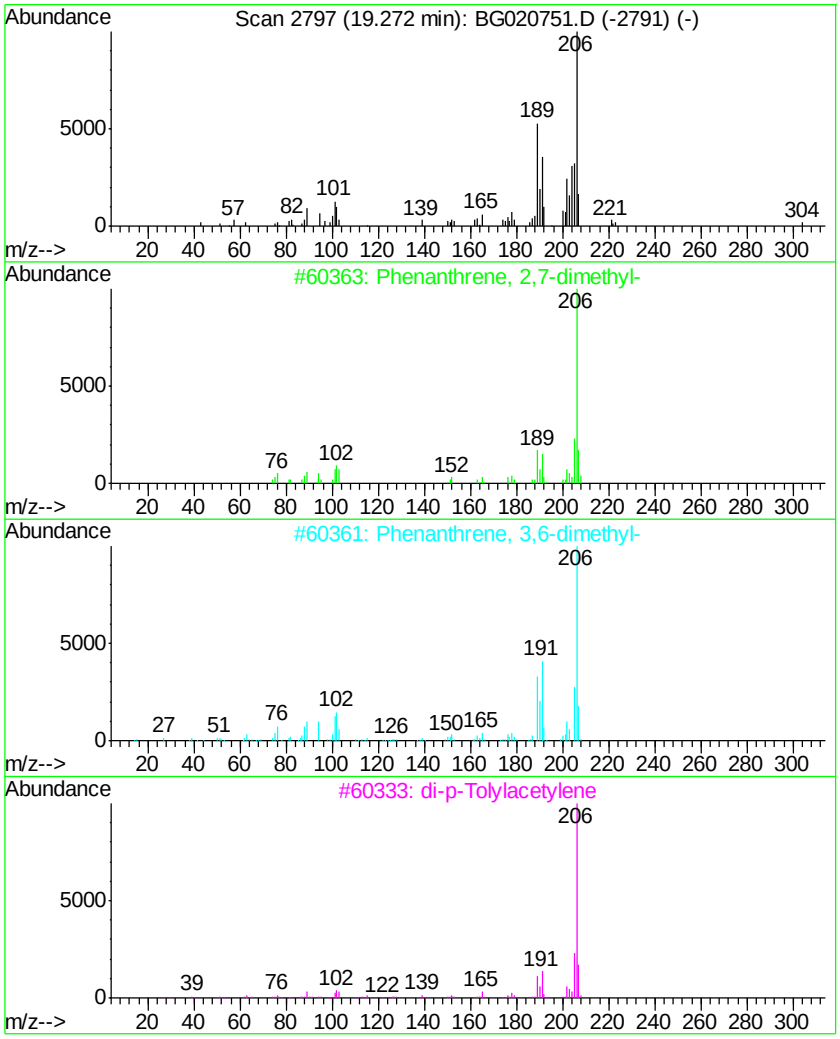
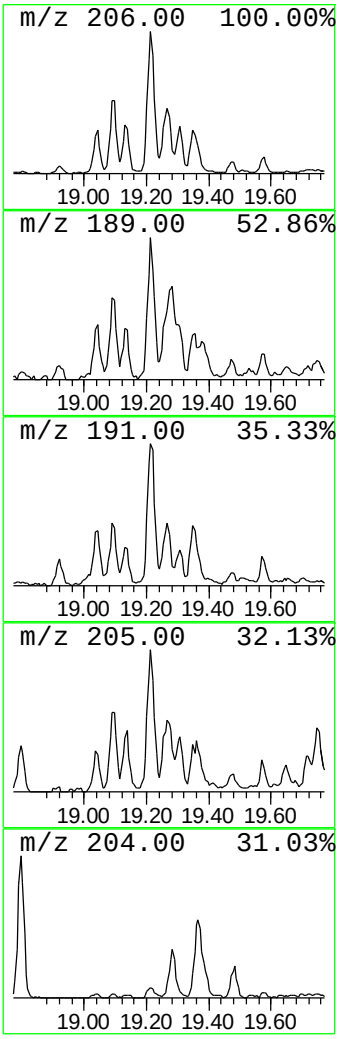
Peak Number 16 Phenanthrene, 2,7-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.27	4.14 ng/ul	69899	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	90
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	86
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	72
4	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	64
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	64





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Sample : H1101-13 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F4

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Quant Title : SVOA CALIBRATION

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

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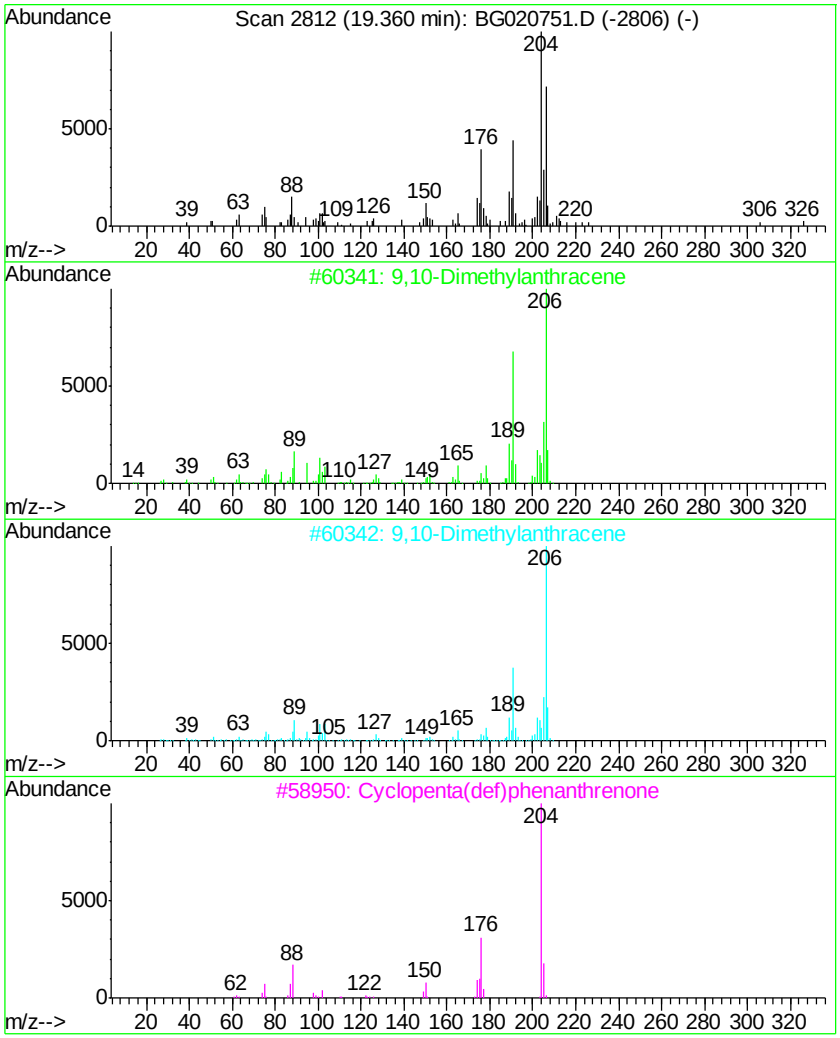
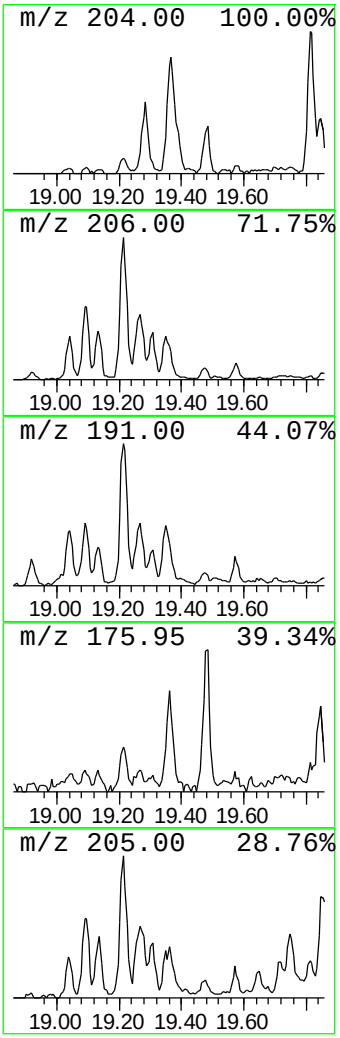
Peak Number 17 9,10-Dimethylanthracene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.36	6.27 ng/ul	105788	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	87
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	46
3	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	45
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	43
5	3-Methyl-1-phenyl-1H-indene	206	C16H14	022360-63-0	42





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Sample : H1101-13 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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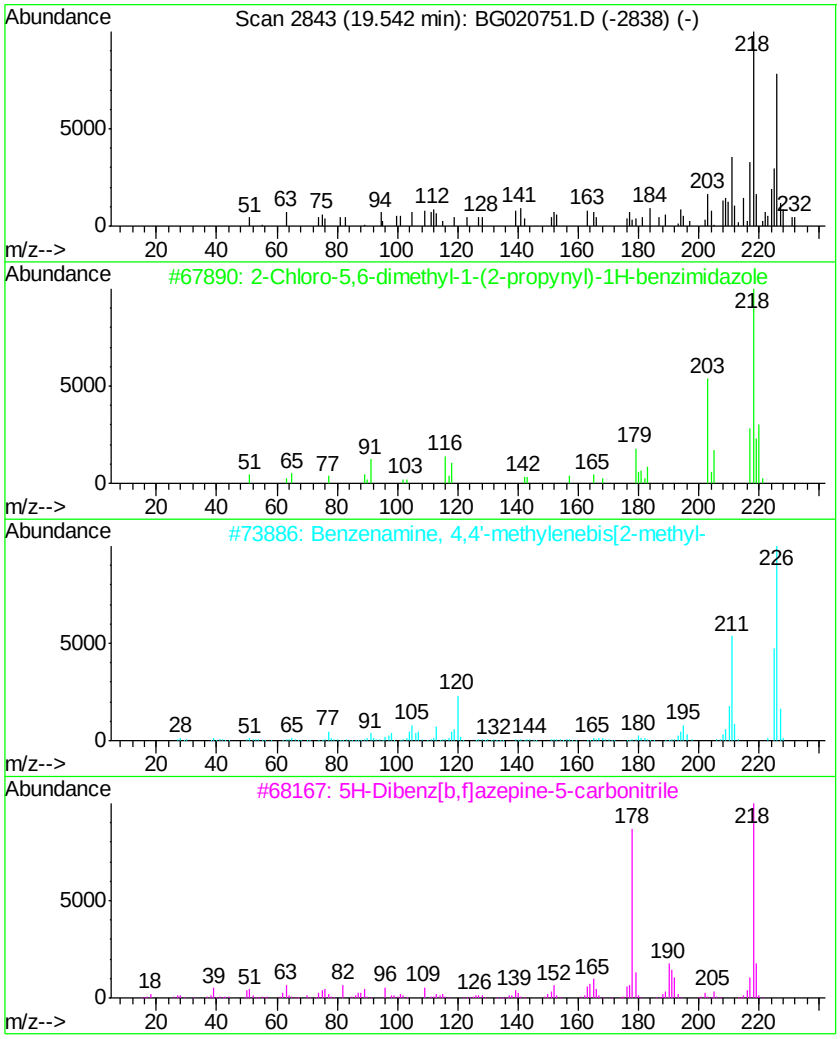
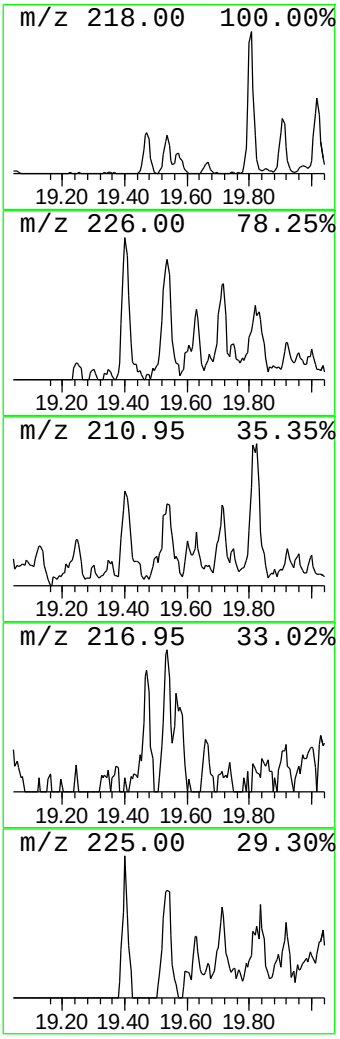
Peak Number 18 unknown-01 Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.54	2.40 ng/ul	40468	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Chloro-5,6-dimethyl-1-(2-propy...	218	C12H11ClN2	080276-20-6	32
2	Benzenamine, 4,4'-methylenebis[2...	226	C15H18N2	000838-88-0	27
3	5H-Dibenz[b,f]azepine-5-carbonit...	218	C15H10N2	042787-75-7	25
4	3,4,5-Trimethoxyphenylacetic acid	226	C11H14O5	000951-82-6	25
5	1H-Pyrrolo[3,4-c]quinoline-1,3,4...	218	C11H10N2O3	181021-85-2	25





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Quant Title : SVOA CALIBRATION

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

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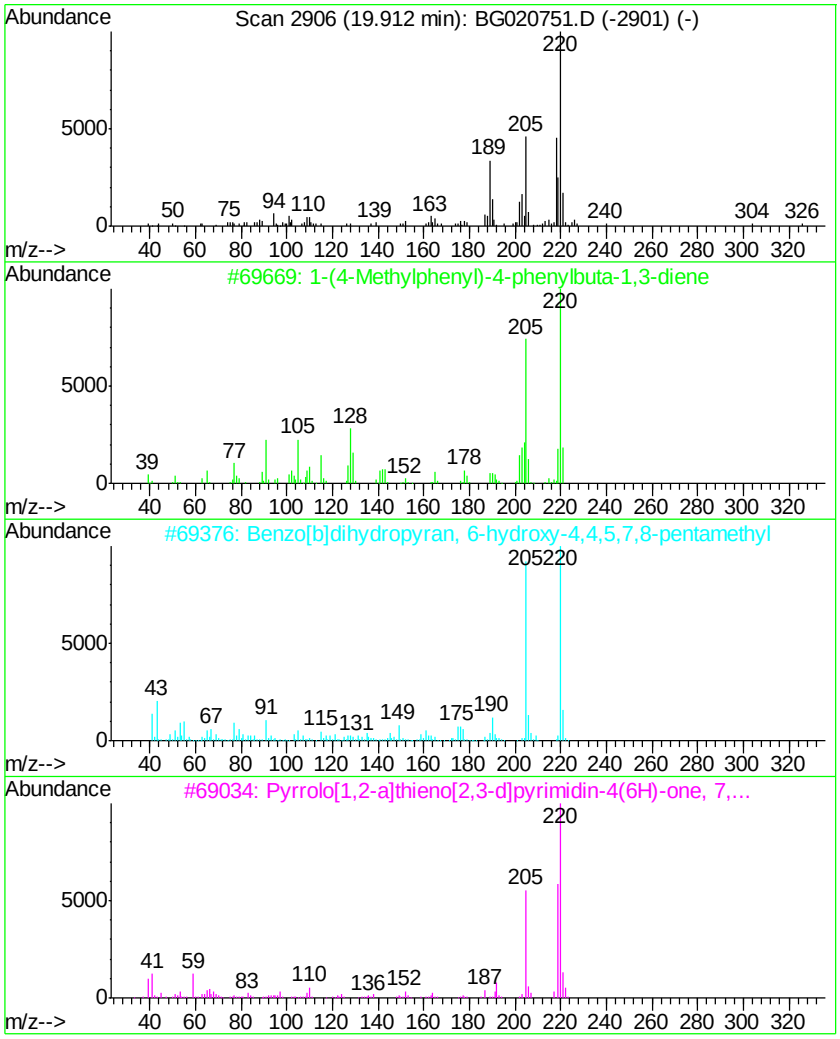
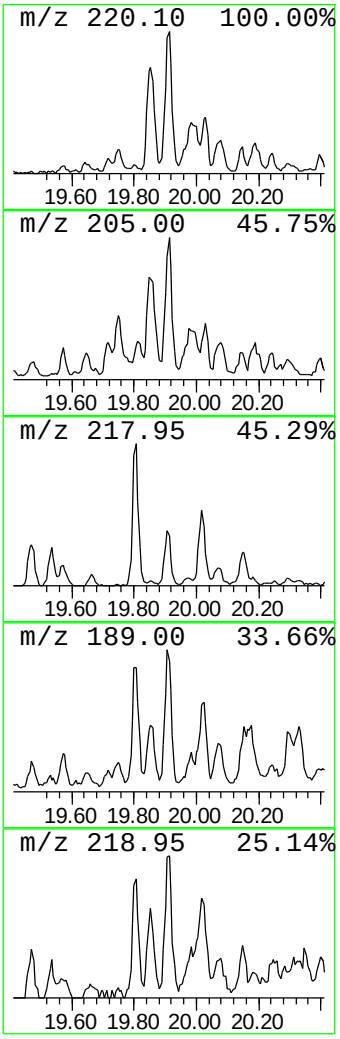
Peak Number 19 1-(4-Methylphenyl)-4-phenyl... Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.91	2.62 ng/ul	112796	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-(4-Methylphenyl)-4-phenylbuta-...	220	C17H16	037985-11-8	53
2	Benzo[b]dihydropyran, 6-hydroxy-...	220	C14H20O2	050442-70-1	43
3	Pyrrolo[1,2-a]thieno[2,3-d]pyrim...	220	C11H12N2OS	056929-61-4	43
4	Noscapine	413	C22H23NO7	000128-62-1	43
5	Phenmethylcynide, .alpha.,.alpha...	220	C11H12N2O3	1000128-94-6	43





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Instrument : BNA_G
ClientSampleId : BC9F4

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Quant Title : SVOA CALIBRATION

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

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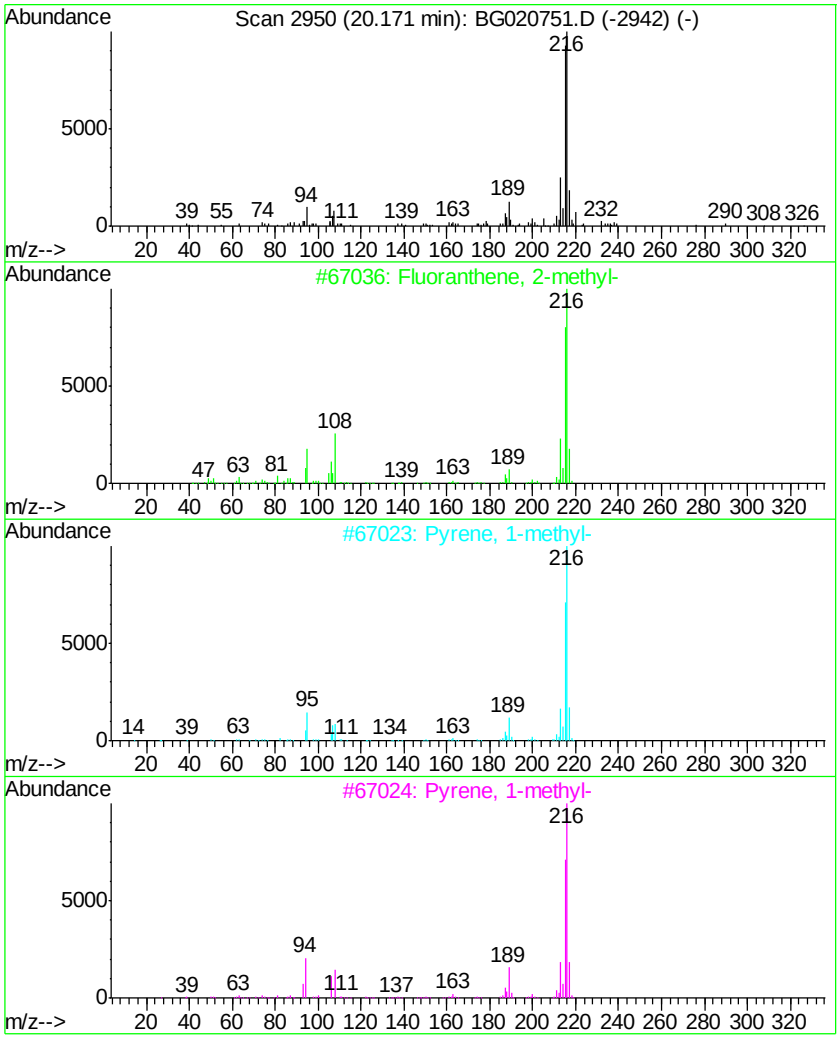
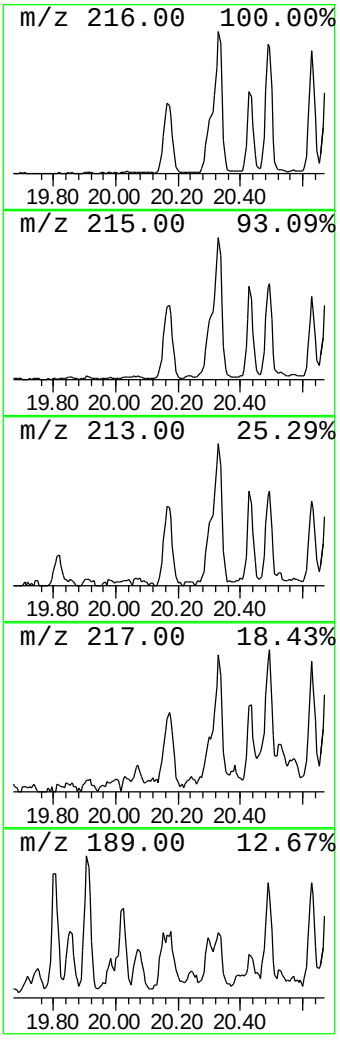
Peak Number 20 Fluoranthene, 2-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.17	4.10 ng/ul	176329	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90





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Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F4

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Quant Title : SVOA CALIBRATION

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

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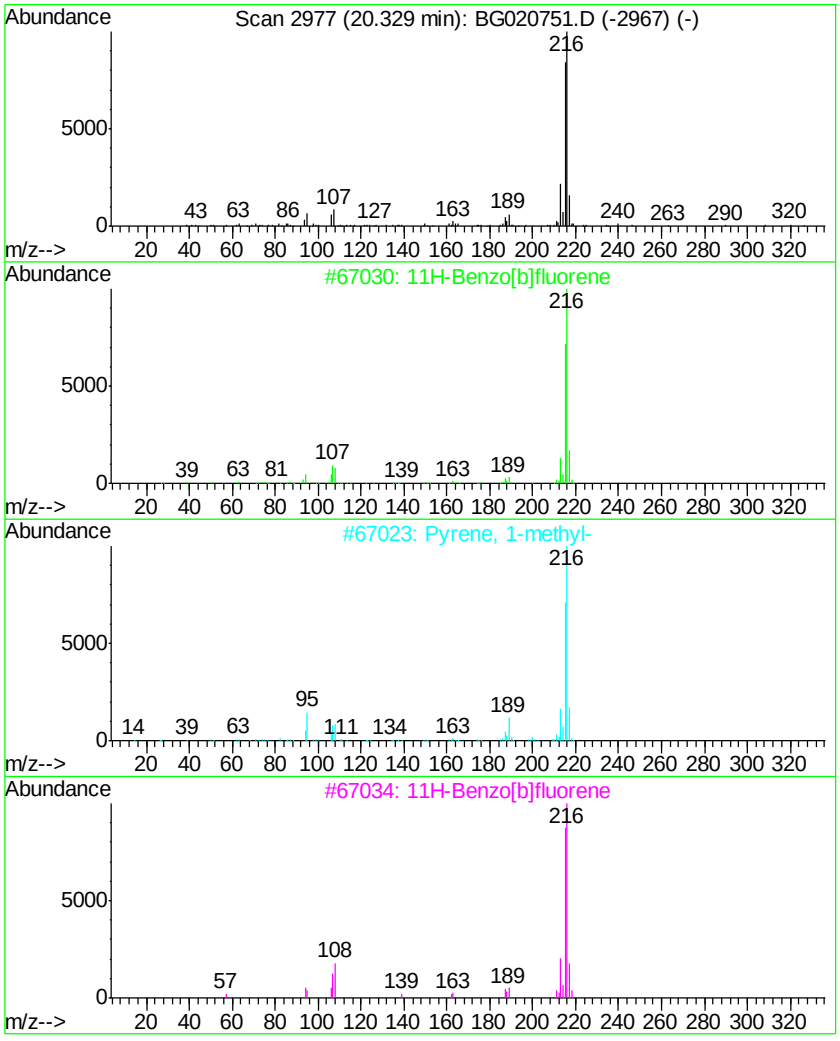
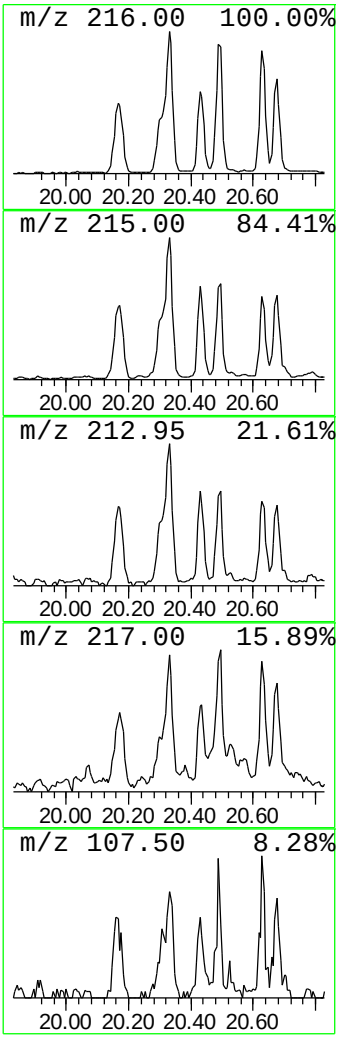
Peak Number 21 11H-Benzo[b]fluorene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.33	5.96 ng/ul	256673	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	97
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91





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Data File : BG020751.D
Acq On : 15 Jan 2016 14:04
Operator : SJ/IZ
Sample : H1101-13 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

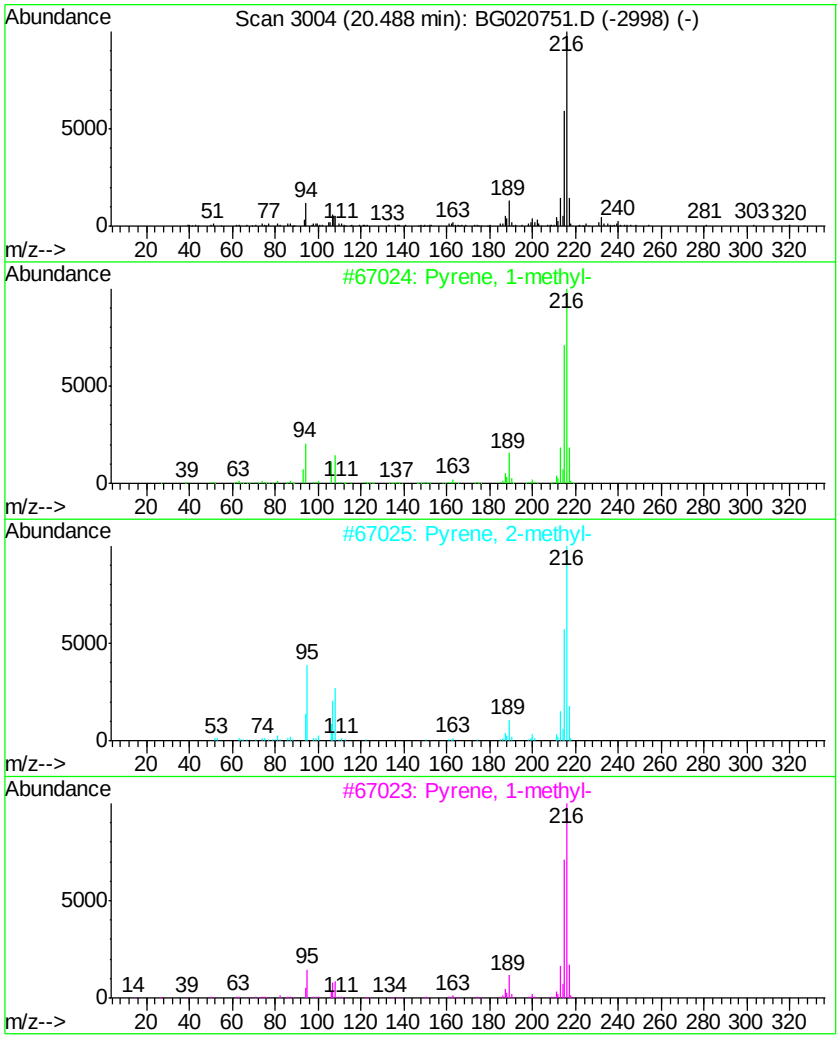
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

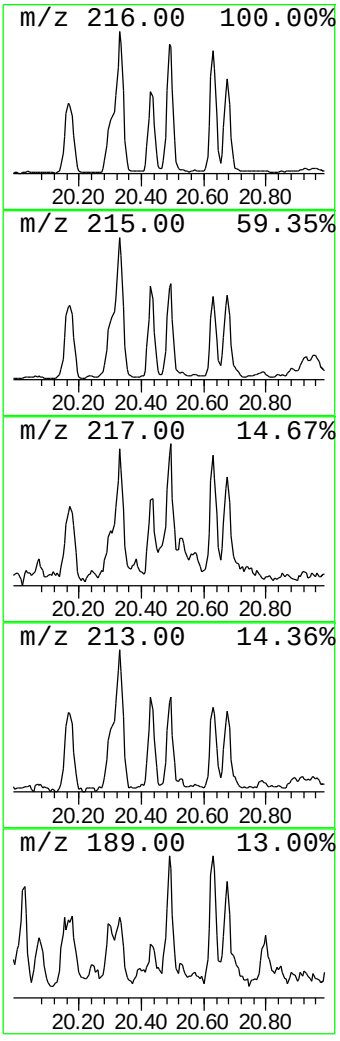
****

Peak Number 23 Pyrene, 1-methyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.49	3.21 ng/ul	138001	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	95
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91





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Acq On : 15 Jan 2016 14:04
Operator : SJ/IZ
Sample : H1101-13 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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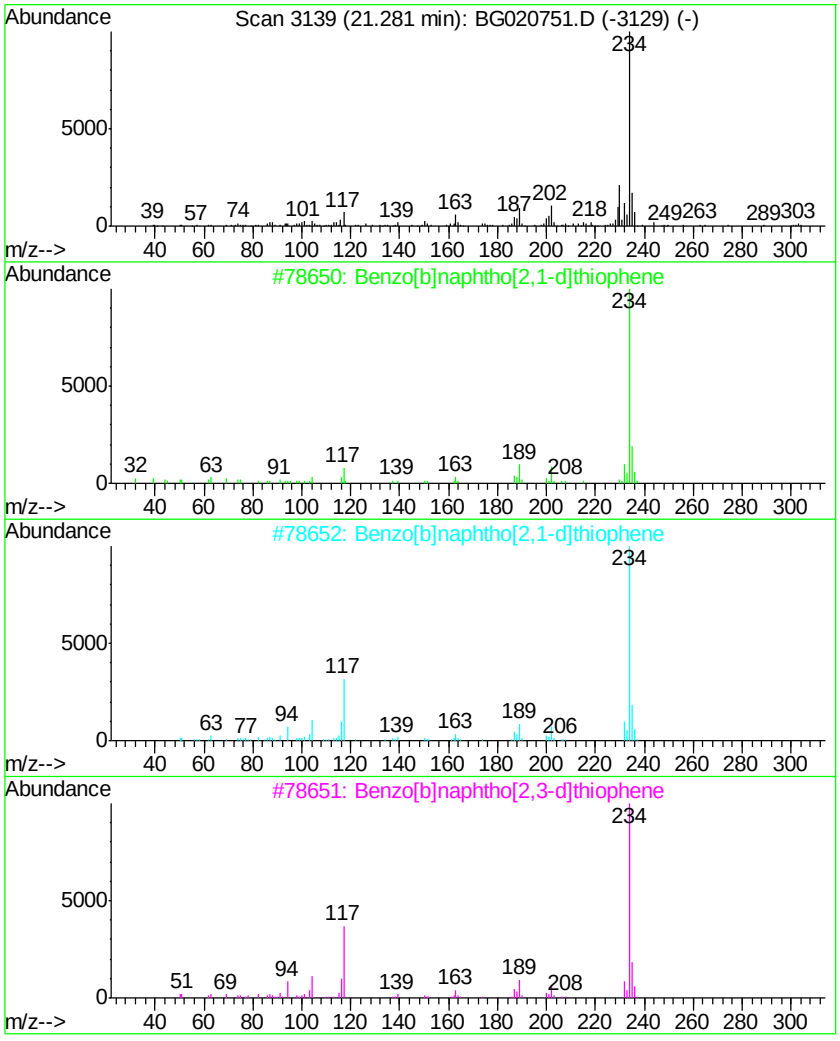
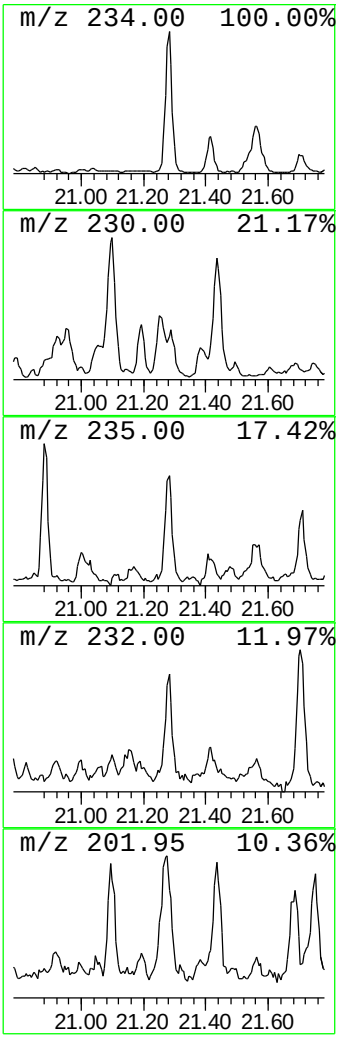
Peak Number 26 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.28	4.62 ng/ul	198715	Chrysene-d12	21.70

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[2,1-d]thiophene	234	C16H10S	000239-35-0	90
3	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	90
4	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	90
5	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	89





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Acq On : 15 Jan 2016 14:04
Operator : SJ/IZ
Sample : H1101-13 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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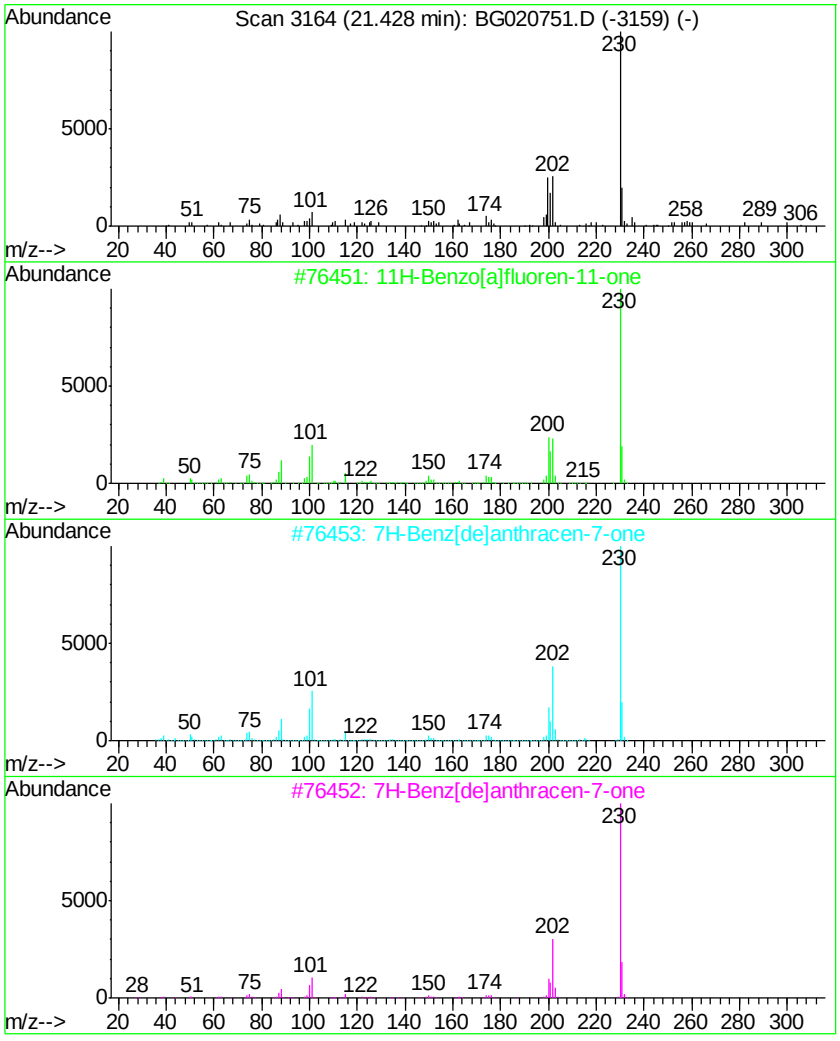
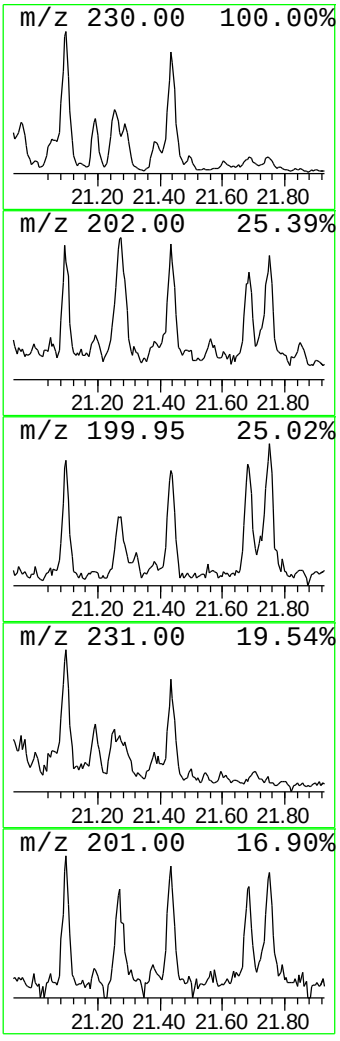
Peak Number 27 11H-Benzo[a]fluoren-11-one Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.43	2.20 ng/ul	94818	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	87
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	74
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	72
4	1-Pyrene-carboxaldehyde	230	C17H10O	003029-19-4	72
5	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	58





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020751.D
Acq On : 15 Jan 2016 14:04
Operator : SJ/IZ
Sample : H1101-13 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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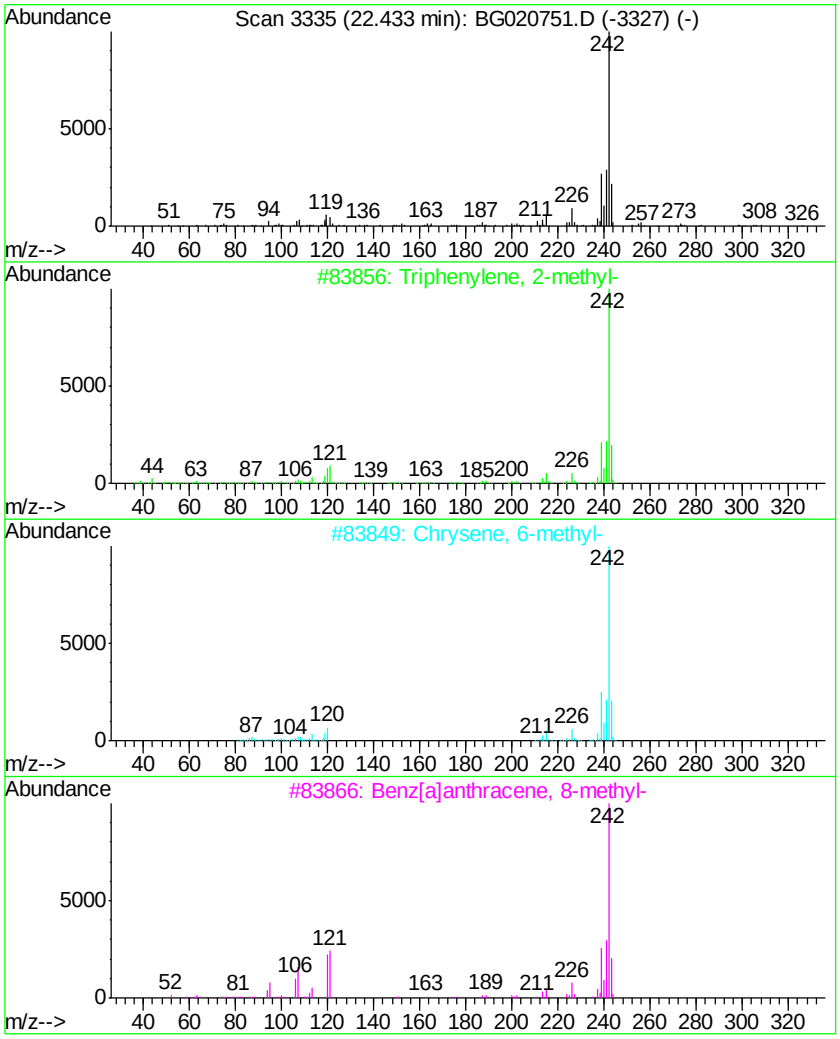
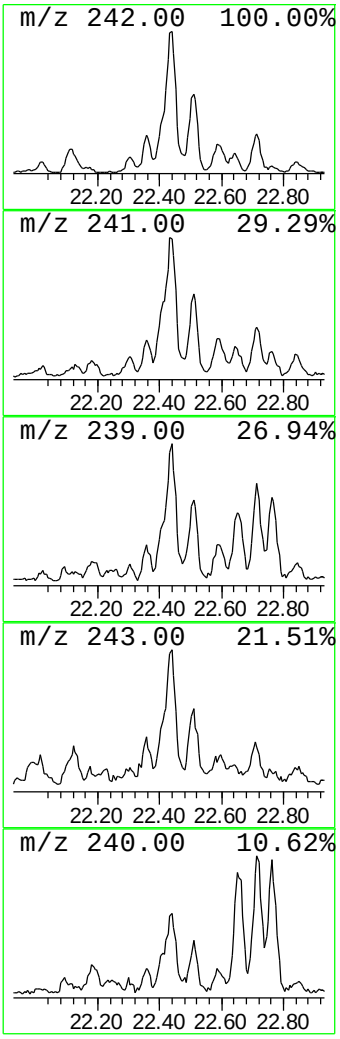
Peak Number 28 Triphenylene, 2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.43	4.04 ng/ul	173953	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	96
2	Chrysene, 6-methyl-	242	C19H14	001705-85-7	95
3	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	93
4	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	93
5	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	91





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020751.D
Acq On : 15 Jan 2016 14:04
Operator : SJ/IZ
Sample : H1101-13 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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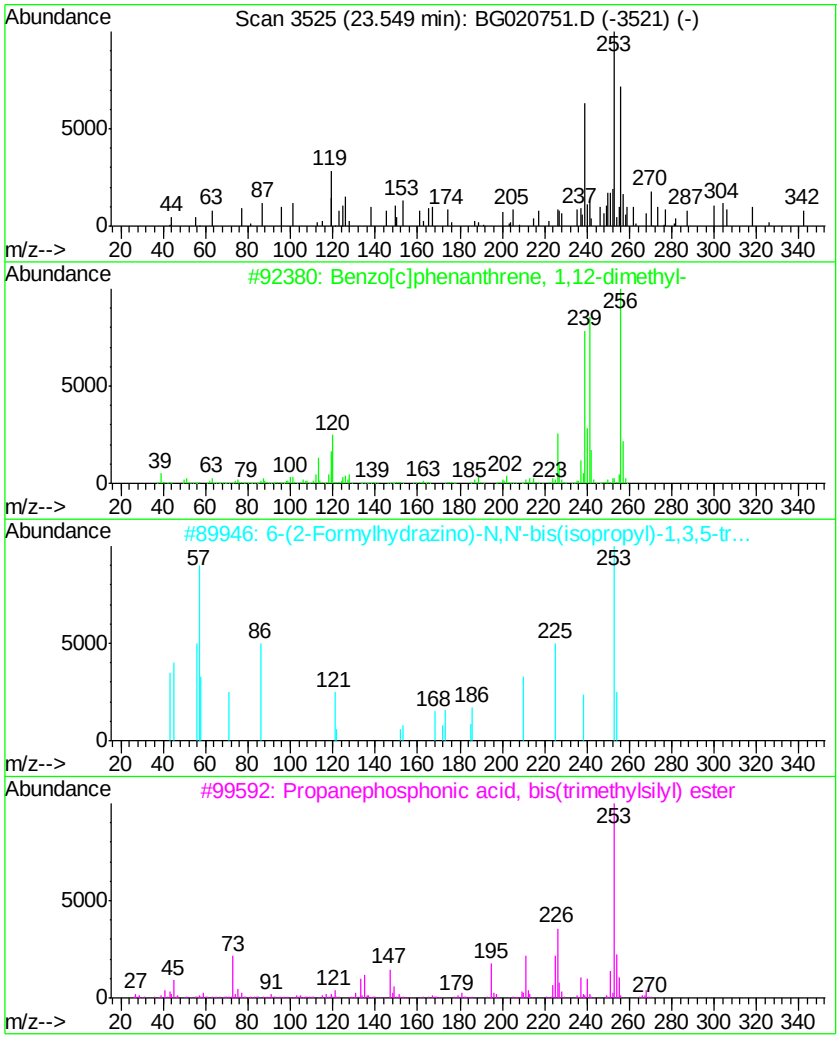
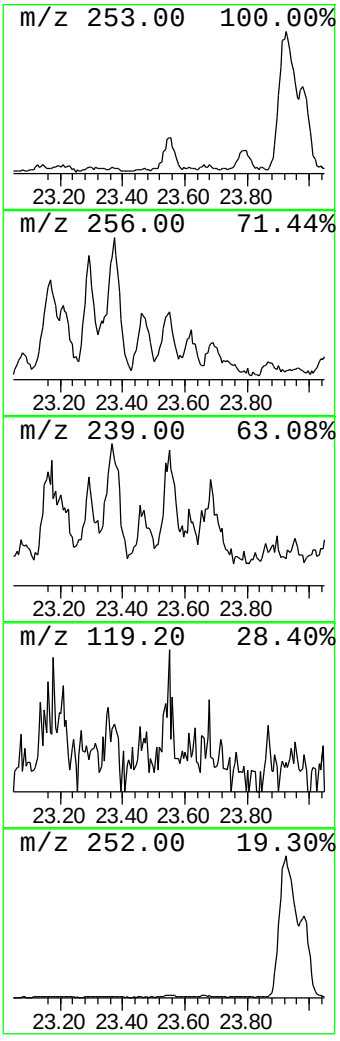
Peak Number 29 unknown-02 Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.55	2.06 ng/ul	42915	Perylene-d12	24.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[c]phenanthrene, 1,12-dimet...	256	C20H16	004076-43-1	25
2	6-(2-Formylhydrazino)-N,N'-bis(i...	253	C10H19N7O	084305-82-8	14
3	Propanephosphonic acid, bis(trim...	268	C9H25O3PSi2	1000193-07-4	14
4	5-Bromo-1-methylindole-2-carboxy...	253	C10H8BrNO2	090766-47-5	12
5	9,10,11,12-Tetrahydrobenzo[e]pyrene	256	C20H16	067099-81-4	11





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020751.D
Acq On : 15 Jan 2016 14:04
Operator : SJ/IZ
Sample : H1101-13 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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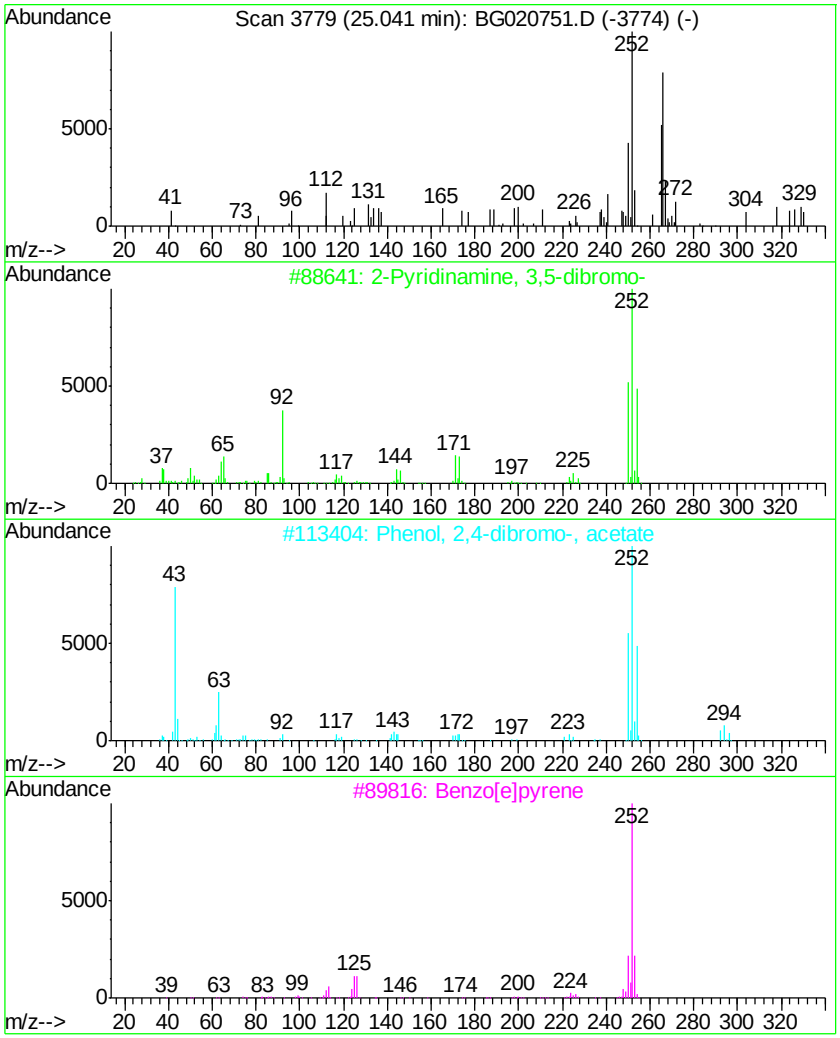
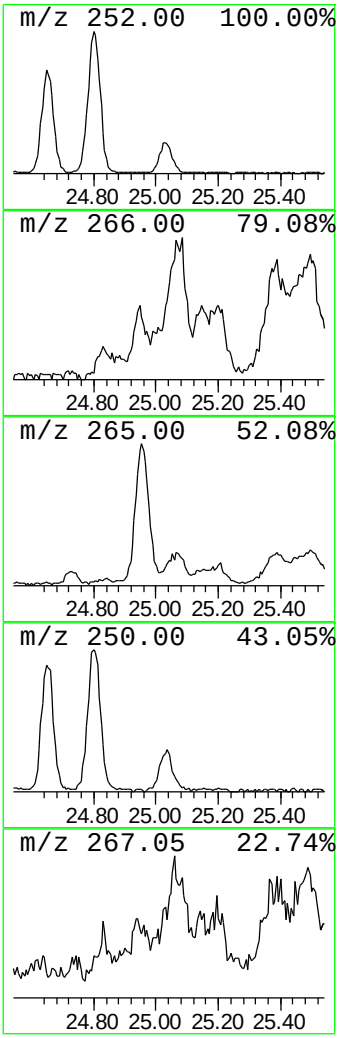
Peak Number 32 unknown-03 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.04	5.25 ng/ul	109122	Perylene-d12	24.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pyridinamine, 3,5-dibromo-	250	C5H4Br2N2	035486-42-1	47
2	Phenol, 2,4-dibromo-, acetate	292	C8H6Br2O2	036914-79-1	38
3	Benzo[e]pyrene	252	C20H12	000192-97-2	30
4	6-Methoxyanthracene-2-carboxylic...	252	C16H12O3	240121-95-3	27
5	Imidazole-2-thiol, 1,5-diphenyl-	252	C15H12N2S	136802-77-2	27





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020751.D
Acq On : 15 Jan 2016 14:04
Operator : SJ/IZ
Sample : H1101-13 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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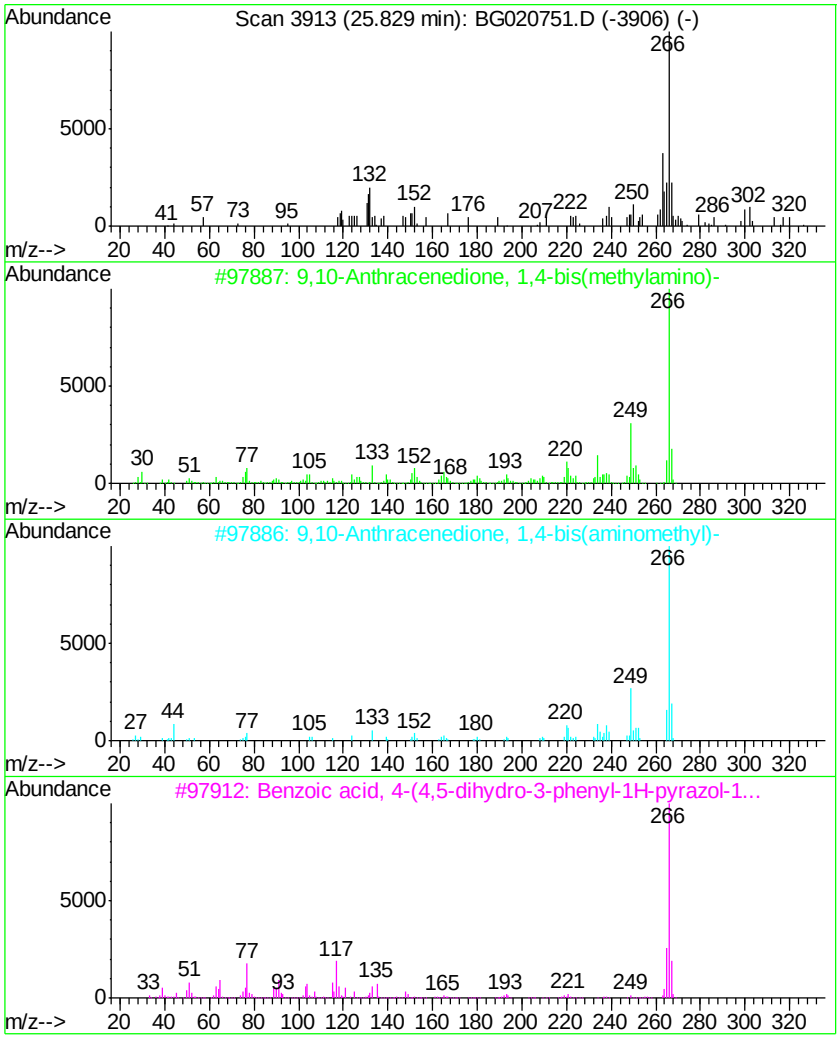
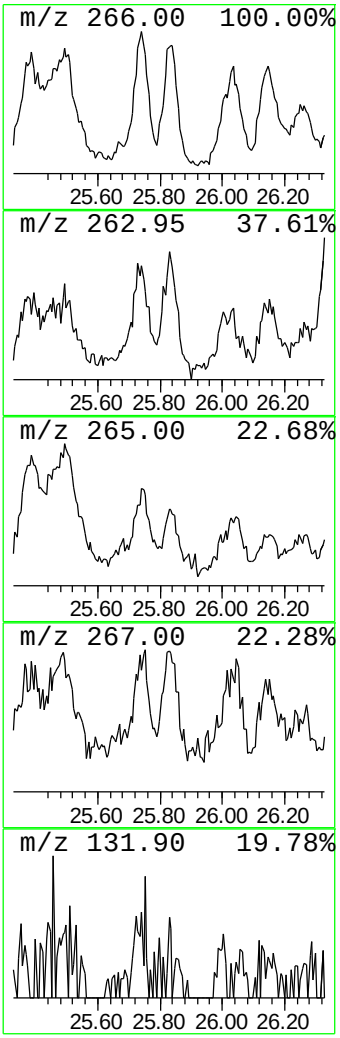
Peak Number 33 9,10-Anthracenedione, 1,4-b... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.83	4.27 ng/ul	88904	Perylene-d12	24.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione, 1,4-bis(me...	266	C16H14N2O2	002475-44-7	60
2	9,10-Anthracenedione, 1,4-bis(am...	266	C16H14N2O2	077862-13-6	58
3	Benzoic acid, 4-(4,5-dihydro-3-p...	266	C16H14N2O2	026192-74-5	47
4	2,4,8,10-Tetramethylbenzo[1,2-b;...	266	C16H18N4	017377-04-7	47
5	Indole, 3-methyl-2-(4-methyl-3-n...	266	C16H14N2O2	311765-55-6	47





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Data File : BG020751.D
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Operator : SJ/IZ
Sample : H1101-13 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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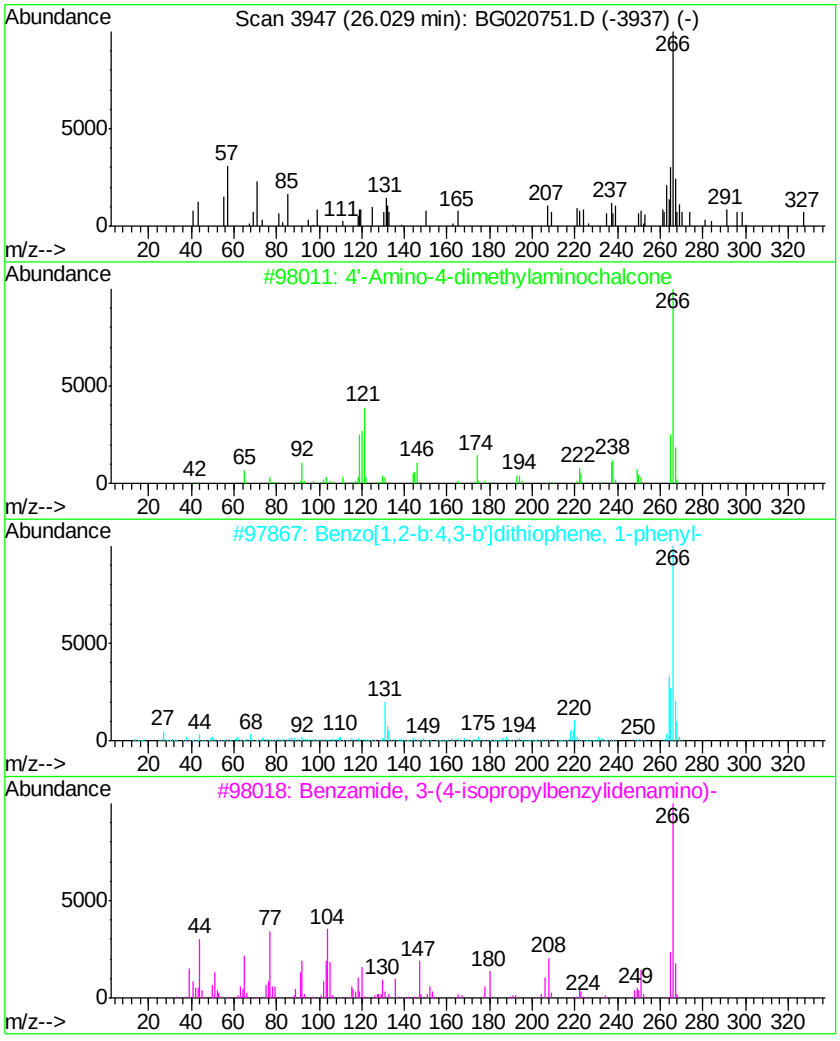
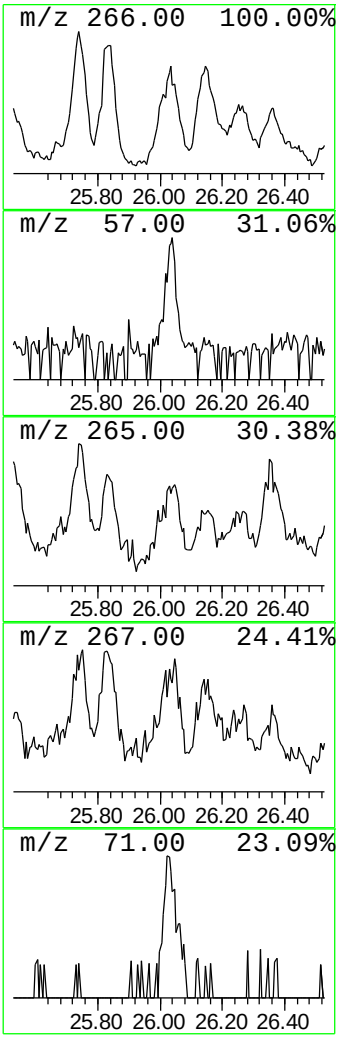
Peak Number 34 4'-Amino-4-dimethylaminocha... Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
26.03	2.61 ng/ul	54325	Perylene-d12	24.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4'-Amino-4-dimethylaminochalcone	266	C17H18N2O	025870-72-8	53
2	Benzo[1,2-b:4,3-b']dithiophene, ...	266	C16H10S2	016587-58-9	53
3	Benzamide, 3-(4-isopropylbenzyli...	266	C17H18N2O	304455-80-9	52
4	2,4,8,10-Tetramethylbenzo[1,2-b;...	266	C16H18N4	017377-04-7	52
5	Benzyl .beta.-methylumbelliferone	266	C17H14O3	000086-44-2	50





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020751.D
Acq On : 15 Jan 2016 14:04
Operator : SJ/IZ
Sample : H1101-13 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.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...	3.13	4.2	ng/ul	22478	1	8.04	106480	20.0
Dibenzothiophene,...	18.01	3.3	ng/ul	56163	4	17.43	337300	20.0
Phenanthrene, 4-m...	18.30	9.1	ng/ul	153204	4	17.43	337300	20.0
Phenanthrene, 2-m...	18.36	11.2	ng/ul	189024	4	17.43	337300	20.0
Phenanthrene, 1-m...	18.43	2.1	ng/ul	35104	4	17.43	337300	20.0
Anthracene, 1-met...	18.49	11.8	ng/ul	198128	4	17.43	337300	20.0
Phenanthrene, 9-m...	18.53	5.4	ng/ul	91626	4	17.43	337300	20.0
2-Phenylnaphthalene	18.80	5.0	ng/ul	84245	4	17.43	337300	20.0
9,10-Anthracenedione	18.85	7.4	ng/ul	124388	4	17.43	337300	20.0
Phenanthrene, 3,6...	19.04	4.9	ng/ul	81988	4	17.43	337300	20.0
Phenanthrene, 2,5...	19.21	11.6	ng/ul	194764	4	17.43	337300	20.0
Phenanthrene, 2,7...	19.27	4.1	ng/ul	69899	4	17.43	337300	20.0
9,10-Dimethylanth...	19.36	6.3	ng/ul	105788	4	17.43	337300	20.0
unknown-01	19.54	2.4	ng/ul	40468	4	17.43	337300	20.0
1-(4-Methylphenyl...	19.91	2.6	ng/ul	112796	5	21.70	861046	20.0
Fluoranthene, 2-m...	20.17	4.1	ng/ul	176329	5	21.70	861046	20.0
11H-Benzo[b]fluorene	20.33	6.0	ng/ul	256673	5	21.70	861046	20.0
Pyrene, 1-methyl-	20.49	3.2	ng/ul	138001	5	21.70	861046	20.0
Benzo[b]naphtho[2...	21.28	4.6	ng/ul	198715	5	21.70	861046	20.0
11H-Benzo[a]fluor...	21.43	2.2	ng/ul	94818	5	21.70	861046	20.0
Triphenylene, 2-m...	22.43	4.0	ng/ul	173953	5	21.70	861046	20.0
unknown-02	23.55	2.1	ng/ul	42915	6	24.95	415958	20.0
unknown-03	25.04	5.3	ng/ul	109122	6	24.95	415958	20.0
9,10-Anthracenedi...	25.83	4.3	ng/ul	88904	6	24.95	415958	20.0
4'-Amino-4-dimeth...	26.03	2.6	ng/ul	54325	6	24.95	415958	20.0