LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081216\
Data File : BG023649.D
Acq On : 12 Aug 2016 10:26
Operator : UM/SJ
Sample : H4384-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-1218-01

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-BG080416.M
Title : SVOA CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.275	749	755	764	rBV	369516	658254	4.52%	0.282%
2	7.434	775	782	788	rBV	295355	490325	3.36%	0.210%
3	7.645	812	818	826	rBV2	356902	661416	4.54%	0.283%
4	8.121	891	899	907	rVB	664663	1167159	8.01%	0.499%
5	8.832	1013	1020	1031	rBV2	468374	840815	5.77%	0.360%
6	9.296	1090	1099	1109	rBV	387477	708621	4.86%	0.303%
7	10.030	1215	1224	1232	rBV2	408256	796437	5.46%	0.341%
8	10.577	1310	1317	1327	rBV	566906	1059238	7.27%	0.453%
9	10.953	1372	1381	1387	rBV	1177690	2097900	14.39%	0.898%
10	11.094	1398	1405	1416	rBV2	281372	546108	3.75%	0.234%
11	13.960	1883	1893	1900	rBV4	245980	646054	4.43%	0.276%
12	14.107	1908	1918	1922	rVV	522865	939454	6.44%	0.402%
13	14.184	1922	1931	1935	rVV2	1069043	2097097	14.39%	0.897%
14	14.231	1935	1939	1947	rVB	1063393	1547869	10.62%	0.662%
15	14.483	1975	1982	1985	rBV	1175107	1977385	13.56%	0.846%
16	14.789	2022	2034	2040	rBV2	1987063	3440083	23.60%	1.472%
17	14.853	2040	2045	2051	rVV	303109	502089	3.44%	0.215%
18	15.012	2062	2072	2078	rBV6	200945	578293	3.97%	0.247%
19	15.182	2094	2101	2108	rVV2	561401	1020186	7.00%	0.437%
20	15.259	2108	2114	2120	rVB	394888	599493	4.11%	0.257%
21	15.400	2132	2138	2143	rBV3	329087	664601	4.56%	0.284%
22	15.576	2160	2168	2170	rBV4	239785	558922	3.83%	0.239%
23	15.787	2199	2204	2208	rVV	1618915	2566969	17.61%	1.098%
24	15.840	2208	2213	2224	rVV3	701818	1496292	10.26%	0.640%
25	16.134	2254	2263	2270	rVB2	369693	796338	5.46%	0.341%
26	16.281	2283	2288	2295	rVB	418463	786965	5.40%	0.337%
27	16.510	2324	2327	2337	rVB4	307114	553421	3.80%	0.237%
28	16.851	2377	2385	2389	rBV3	433738	880639	6.04%	0.377%
29	16.898	2389	2393	2398	rVB2	334522	465654	3.19%	0.199%
30	17.074	2415	2423	2427	rBV3	347221	798286	5.48%	0.342%
31	17.203	2440	2445	2452	rVV2	609804	983485	6.75%	0.421%
32	17.274	2452	2457	2463	rVV2	422589	733117	5.03%	0.314%
33	17.373	2469	2474	2481	rVB	733580	1171116	8.03%	0.501%
34	17.556	2498	2505	2508	rBV2	2476173	4069596	27.92%	1.741%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081216\
Data File : BG023649.D
Acq On : 12 Aug 2016 10:26
Operator : UM/SJ
Sample : H4384-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-1218-01

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-BG080416.M
Title : SVOA CALIBRATION

35	17.603	2508	2513	2518	rVV	7411178	12546270	86.07%	5.368%
36	17.655	2518	2522	2525	rVV	1738565	2753672	18.89%	1.178%
37	17.691	2525	2528	2532	rVV	1547016	2222292	15.24%	0.951%
38	17.744	2532	2537	2542	rVV2	308185	741858	5.09%	0.317%
39	17.967	2570	2575	2581	rVV3	342234	959003	6.58%	0.410%
40	18.072	2589	2593	2597	rVV	461077	695744	4.77%	0.298%
41	18.137	2599	2604	2612	rVB	840063	1382493	9.48%	0.592%
42	18.284	2624	2629	2636	rVB	458237	962760	6.60%	0.412%
43	18.360	2637	2642	2646	rBV2	300579	522976	3.59%	0.224%
44	18.437	2649	2655	2659	rVV	2737267	4584957	31.45%	1.962%
45	18.484	2659	2663	2669	rVB	3304095	4940142	33.89%	2.114%
46	18.566	2672	2677	2681	rBV2	774291	1170036	8.03%	0.501%
47	18.625	2681	2687	2691	rVV2	2715960	5442927	37.34%	2.329%
48	18.666	2691	2694	2699	rVB	2115974	2851332	19.56%	1.220%
49	18.924	2734	2738	2743	rBV	1539811	2303767	15.80%	0.986%
50	18.983	2743	2748	2756	rVB2	982123	1736756	11.91%	0.743%
51	19.171	2777	2780	2784	rVV	814658	1151778	7.90%	0.493%
52	19.224	2785	2789	2792	rVV	983017	1330405	9.13%	0.569%
53	19.259	2792	2795	2800	rVV	640829	859988	5.90%	0.368%
54	19.347	2804	2810	2814	rBV	2250948	3736843	25.63%	1.599%
55	19.406	2814	2820	2823	rVV3	881232	1992723	13.67%	0.853%
56	19.435	2823	2825	2829	rVB	799272	905468	6.21%	0.387%
57	19.494	2829	2835	2841	rBV3	1316069	2825058	19.38%	1.209%
58	19.617	2848	2856	2861	rBV	8747835	14577279	100.00%	6.237%
59	19.670	2861	2865	2867	rBV	498537	702635	4.82%	0.301%
60	19.706	2867	2871	2876	rVB2	813416	1242320	8.52%	0.532%
61	19.764	2876	2881	2885	rBV	642704	1049945	7.20%	0.449%
62	19.852	2892	2896	2899	rBV2	436466	695983	4.77%	0.298%
63	19.946	2906	2912	2914	rBV2	2839351	4556617	31.26%	1.950%
64	19.982	2914	2918	2924	rVB	8471067	13359229	91.64%	5.716%
65	20.040	2924	2928	2934	rVB	1300801	1927621	13.22%	0.825%
66	20.152	2934	2947	2952	rBV3	836901	2321868	15.93%	0.993%
67	20.205	2952	2956	2963	rVB3	544184	974687	6.69%	0.417%
68	20.299	2964	2972	2979	rBV7	1305495	3661417	25.12%	1.567%
69	20.463	2989	3000	3008	rVB2	1660799	4763103	32.67%	2.038%
70	20.563	3013	3017	3021	rVV	830604	1336304	9.17%	0.572%
71	20.628	3021	3028	3031	rVV2	1788282	3286768	22.55%	1.406%

LSC Area Percent Report

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Data File : BG023649.D
Acq On : 12 Aug 2016 10:26
Operator : UM/SJ
Sample : H4384-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-1218-01

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-BG080416.M
Title : SVOA CALIBRATION

72	20.657	3031	3033	3037	rVV3	368480	474287	3.25%	0.203%
73	20.704	3037	3041	3047	rVV4	308779	624286	4.28%	0.267%
74	20.769	3047	3052	3055	rVV	1377127	2077099	14.25%	0.889%
75	20.810	3055	3059	3070	rVB2	1305463	2395779	16.44%	1.025%
76	21.251	3129	3134	3140	rVB	1460209	2398499	16.45%	1.026%
77	21.439	3157	3166	3170	rVV3	1109376	2825629	19.38%	1.209%
78	21.480	3170	3173	3178	rVV	1060201	1699713	11.66%	0.727%
79	21.533	3178	3182	3187	rVV2	888813	1695147	11.63%	0.725%
80	21.597	3188	3193	3201	rVB2	1191001	2269751	15.57%	0.971%
81	21.867	3231	3239	3246	rBV2	4890511	12819355	87.94%	5.485%
82	21.932	3246	3250	3262	rVB	4031246	7678819	52.68%	3.286%
83	22.091	3273	3277	3282	rBV2	393666	697685	4.79%	0.299%
84	22.161	3285	3289	3294	rBV4	564058	1092742	7.50%	0.468%
85	22.314	3310	3315	3320	rVB3	306938	633900	4.35%	0.271%
86	22.373	3321	3325	3330	rVB5	298319	493007	3.38%	0.211%
87	22.561	3353	3357	3362	rBV	302277	577605	3.96%	0.247%
88	22.643	3363	3371	3378	rVV	1268019	3082893	21.15%	1.319%
89	22.719	3380	3384	3392	rVB	714038	1320484	9.06%	0.565%
90	22.936	3415	3421	3425	rBV	566681	1137289	7.80%	0.487%
91	23.083	3441	3446	3452	rVB3	354551	742193	5.09%	0.318%
92	24.211	3628	3638	3645	rBV2	2576545	9257201	63.50%	3.961%
93	24.470	3677	3682	3693	rVB2	472180	1238357	8.50%	0.530%
94	24.975	3760	3768	3775	rBV	1236693	3495658	23.98%	1.496%
95	25.051	3777	3781	3786	rVV2	521705	1243343	8.53%	0.532%
96	25.134	3787	3795	3805	rVB	2459795	6742534	46.25%	2.885%
97	25.286	3812	3821	3829	rBV3	1063777	3225771	22.13%	1.380%
98	25.369	3830	3835	3851	rVB4	602595	2153637	14.77%	0.922%
99	29.199	4475	4487	4506	rVB4	932800	4850539	33.27%	2.075%
100	30.415	4683	4694	4713	rVB2	594391	2790752	19.14%	1.194%

Sum of corrected areas: 233708655

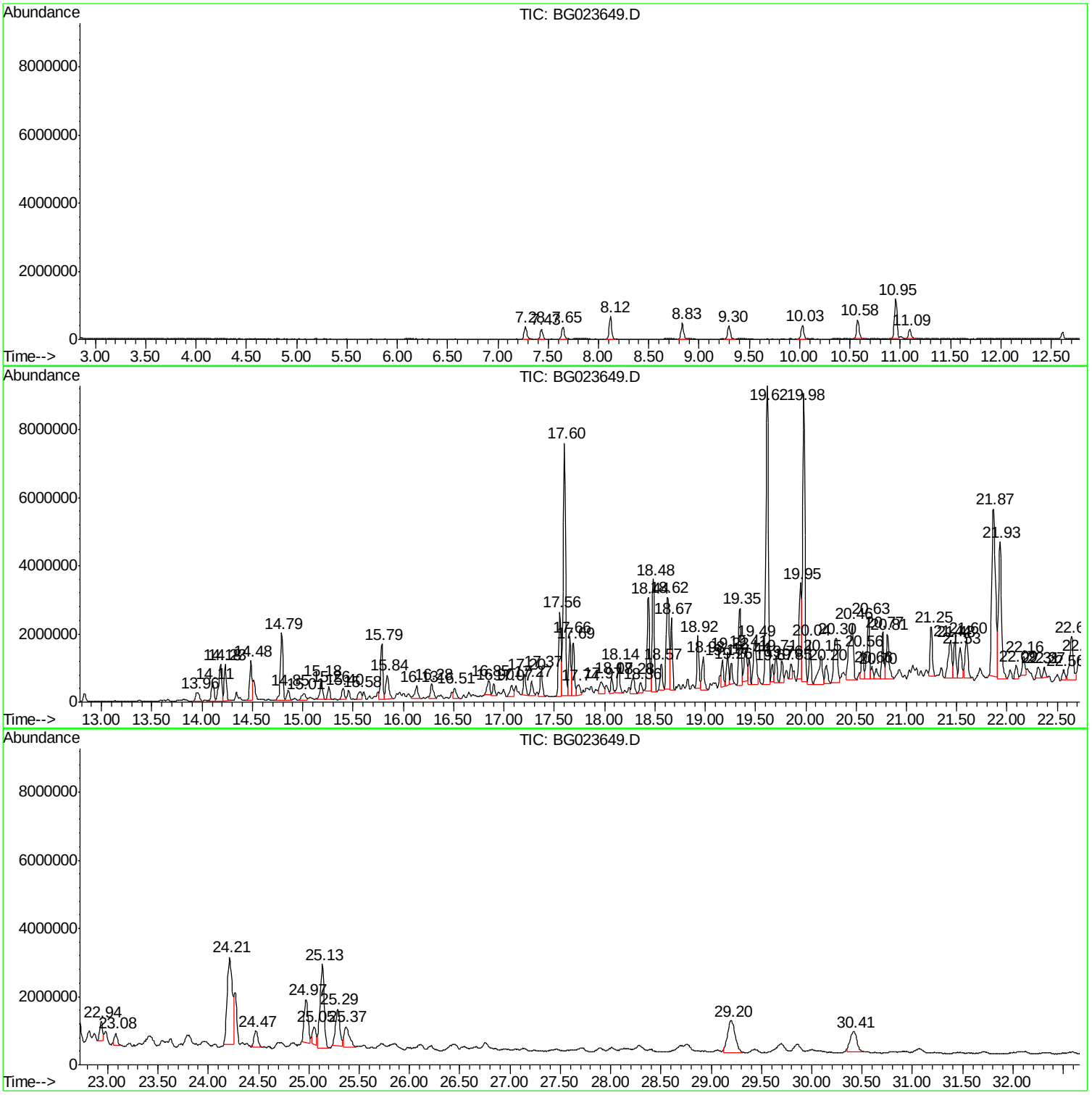
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081216\
Data File : BG023649.D
Acq On : 12 Aug 2016 10:26
Operator : UM/SJ
Sample : H4384-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081216\
Data File : BG023649.D
Acq On : 12 Aug 2016 10:26
Operator : UM/SJ
Sample : H4384-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

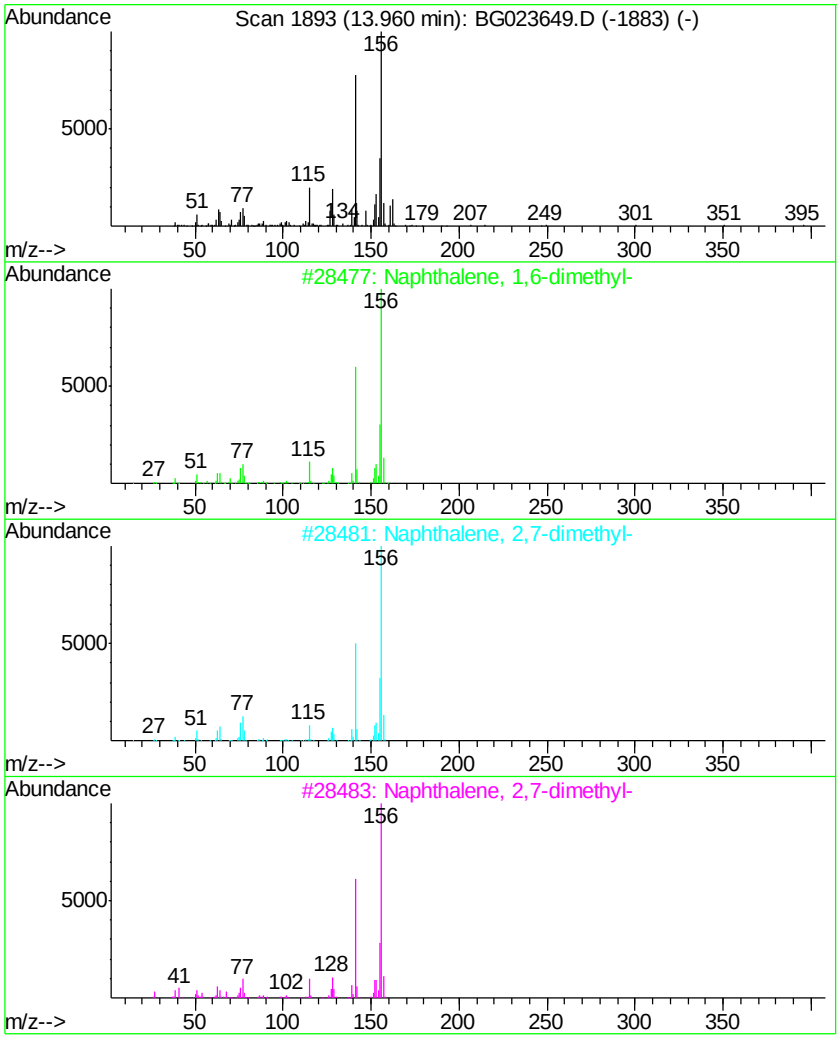
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

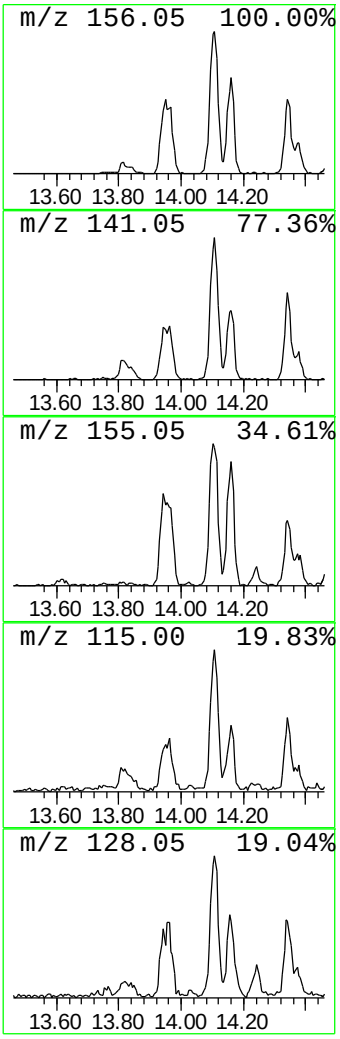
****

Peak Number 1 Naphthalene, 1,6-dimethyl- Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.96	3.76 ng/ul	646054	Acenaphthene-d10	14.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	95
2	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	95
3	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	95
4	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	95
5	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	94





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081216\
Data File : BG023649.D
Acq On : 12 Aug 2016 10:26
Operator : UM/SJ
Sample : H4384-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

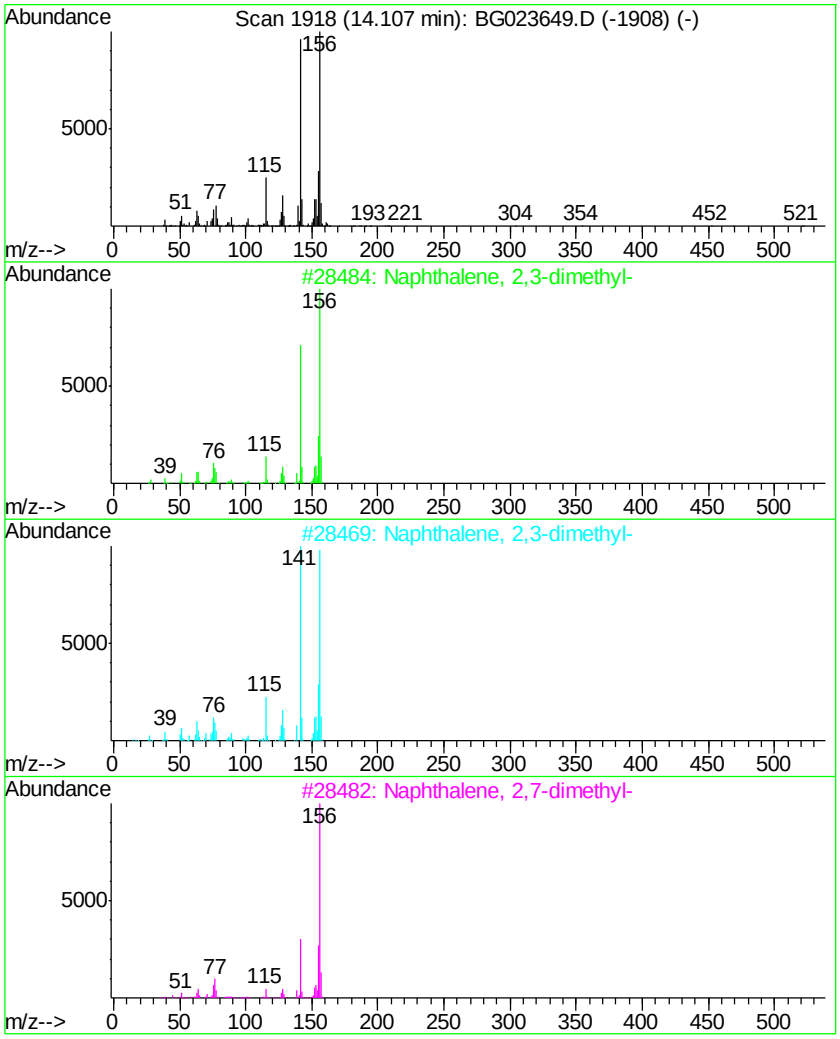
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

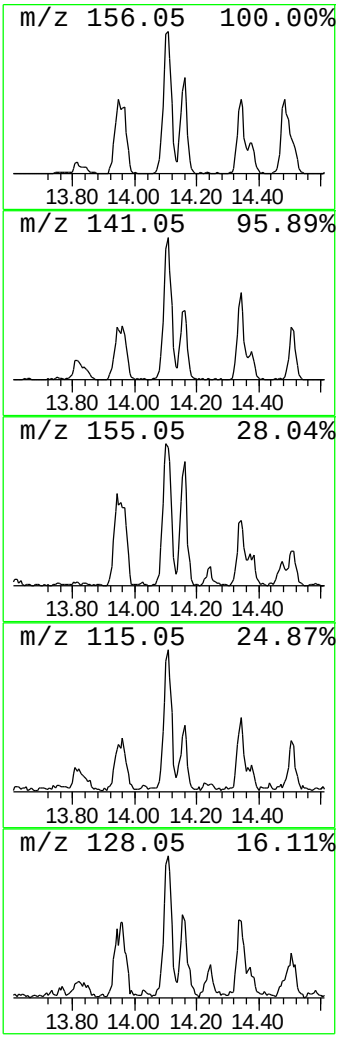
****

Peak Number 2 Naphthalene, 2,3-dimethyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.11	5.46 ng/ul	939454	Acenaphthene-d10	14.79

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	96
3	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	95
4	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	95
5	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	95





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081216\
Data File : BG023649.D
Acq On : 12 Aug 2016 10:26
Operator : UM/SJ
Sample : H4384-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

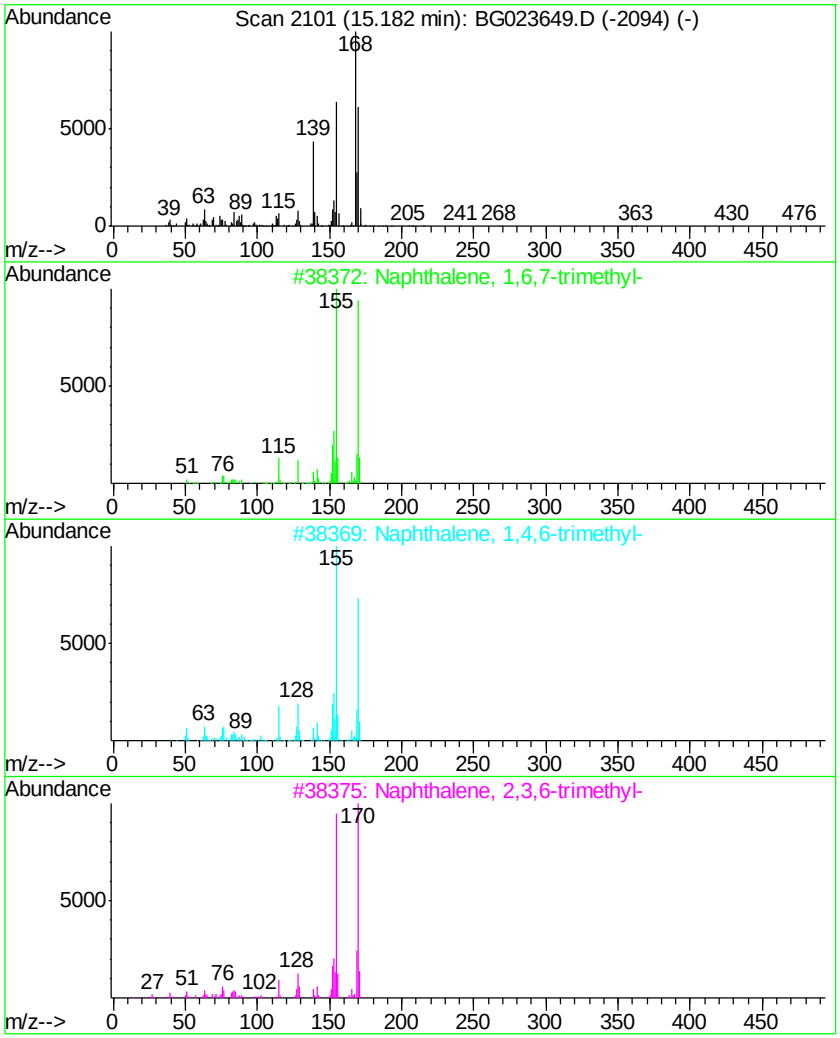
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

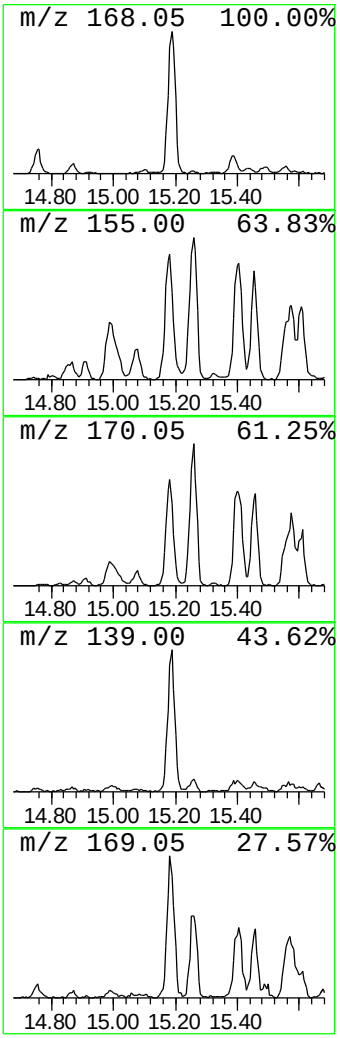
****

Peak Number 3 Naphthalene, 1,6,7-trimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.18	5.93 ng/ul	1020190	Acenaphthene-d10	14.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	83
2	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	46
3	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	46
4	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	46
5	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	46





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081216\
Data File : BG023649.D
Acq On : 12 Aug 2016 10:26
Operator : UM/SJ
Sample : H4384-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

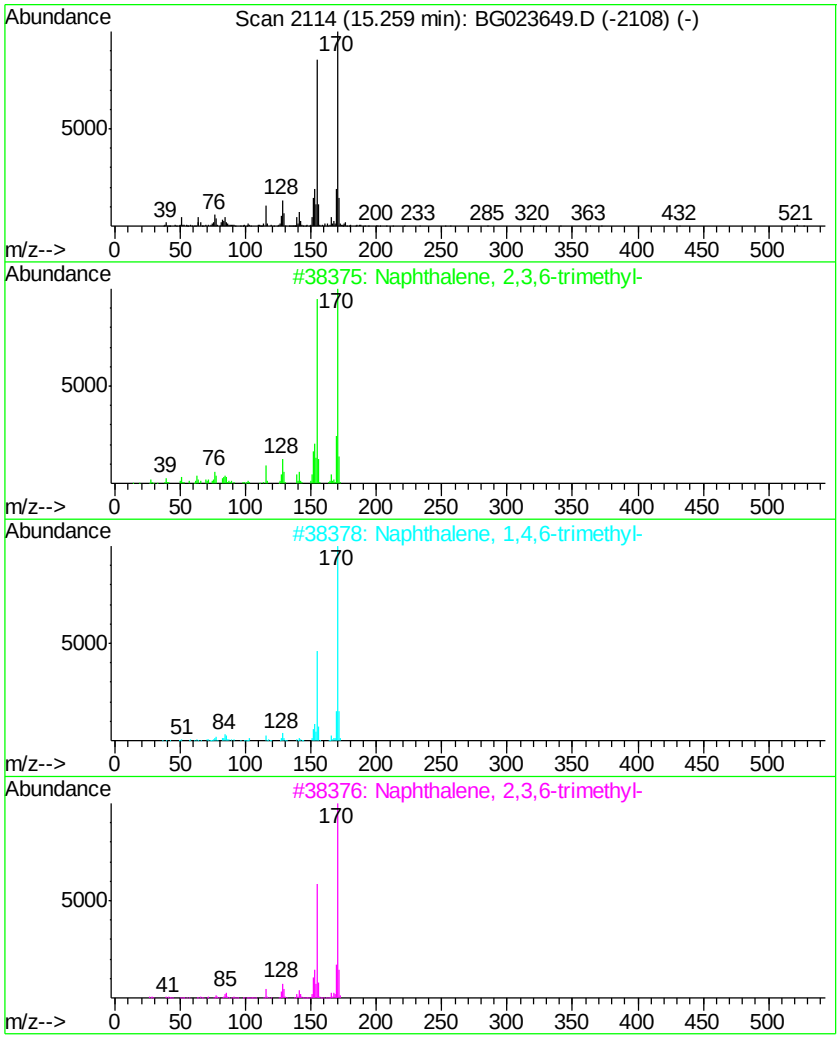
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

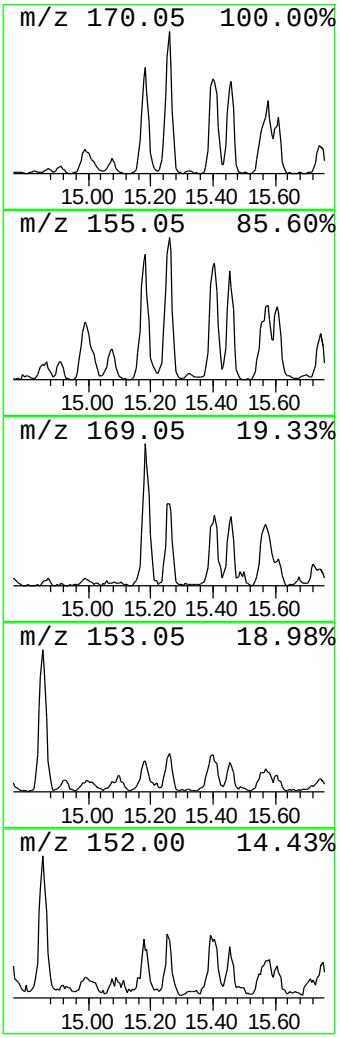
****

Peak Number 4 Naphthalene, 2,3,6-trimethyl- Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.26	3.49 ng/ul	599493	Acenaphthene-d10	14.79

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





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081216\
Data File : BG023649.D
Acq On : 12 Aug 2016 10:26
Operator : UM/SJ
Sample : H4384-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

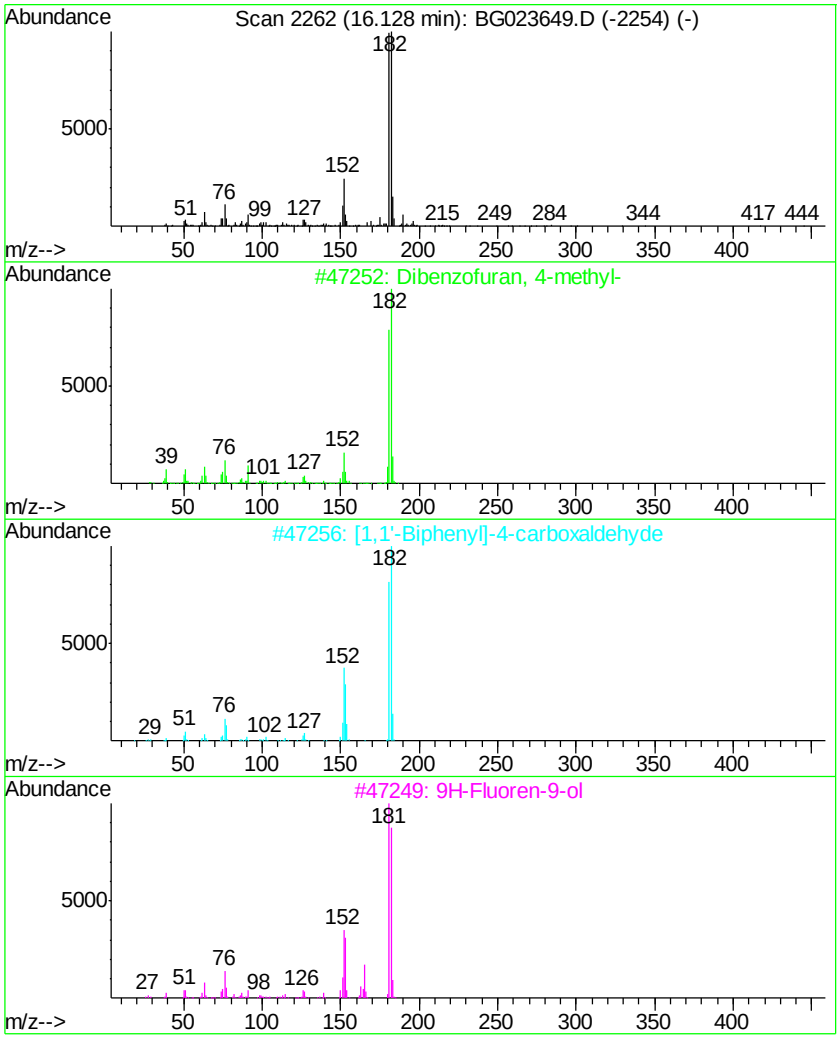
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

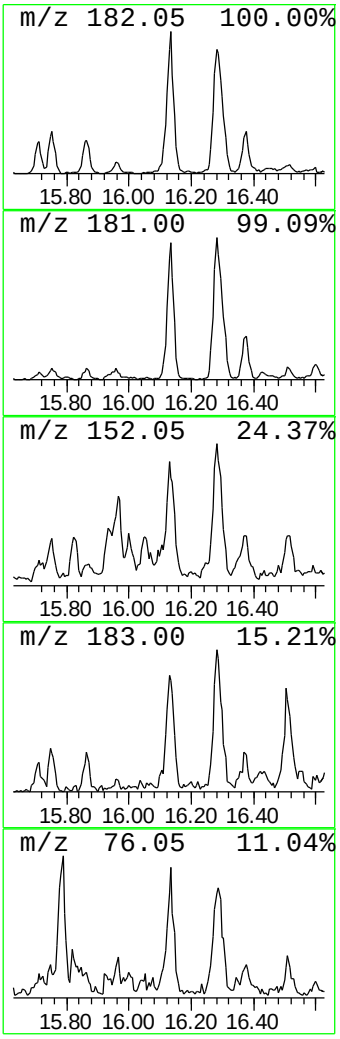
****

Peak Number 7 Dibenzofuran, 4-methyl- Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.13	4.63 ng/ul	796338	Acenaphthene-d10	14.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	94
2	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	87
3	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	86
4	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
5	Norharmane, N-methyl-	182	C12H10N2	1000374-78-6	64





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Data File : BG023649.D
Acq On : 12 Aug 2016 10:26
Operator : UM/SJ
Sample : H4384-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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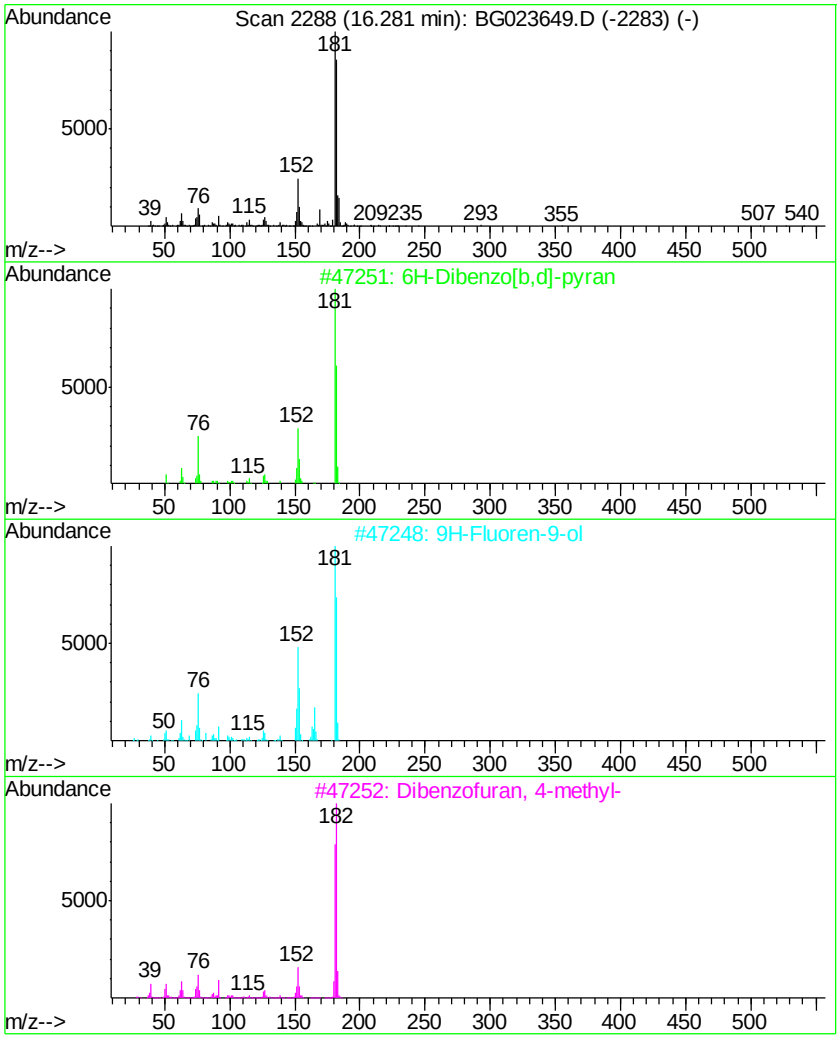
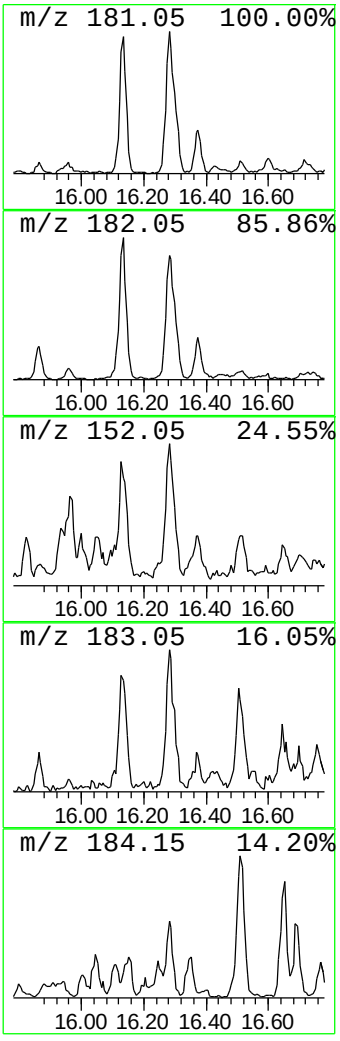
Peak Number 8 6H-Dibenzo[b,d]-pyran Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.28	3.87 ng/ul	786965	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6H-Dibenzo[b,d]-pyran	182	C13H10O	000229-95-8	90
2	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	90
3	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	86
4	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	81
5	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	80





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Acq On : 12 Aug 2016 10:26
Operator : UM/SJ
Sample : H4384-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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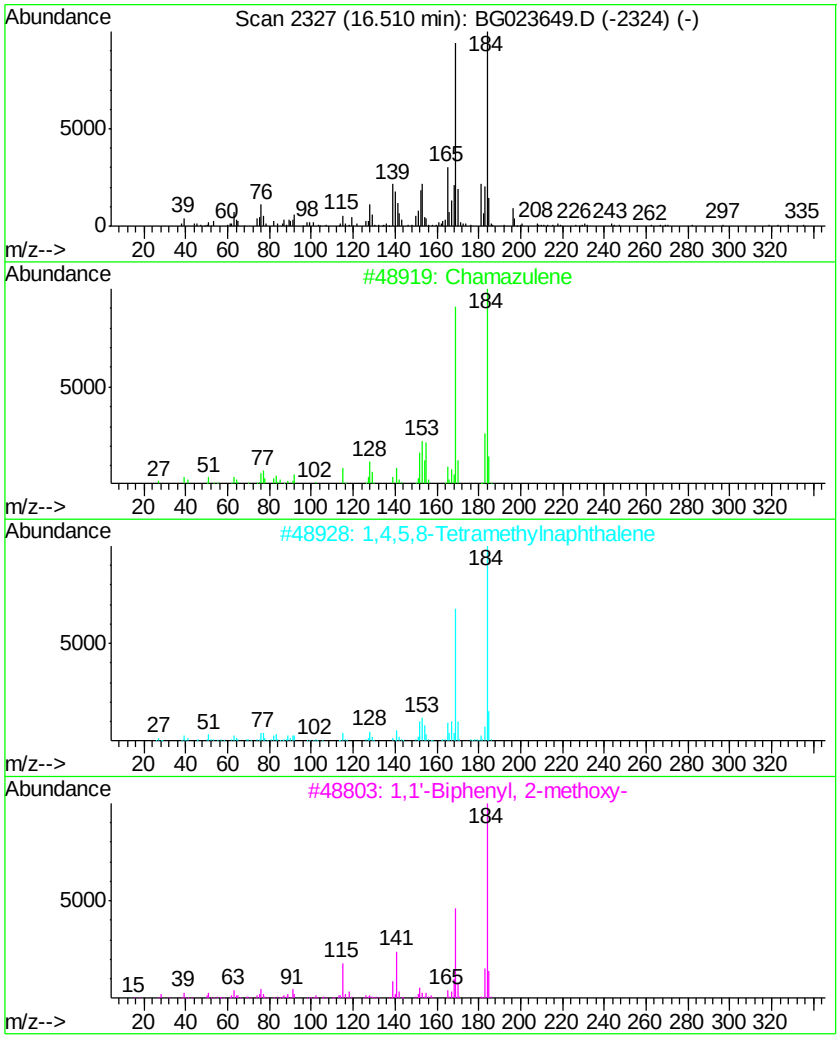
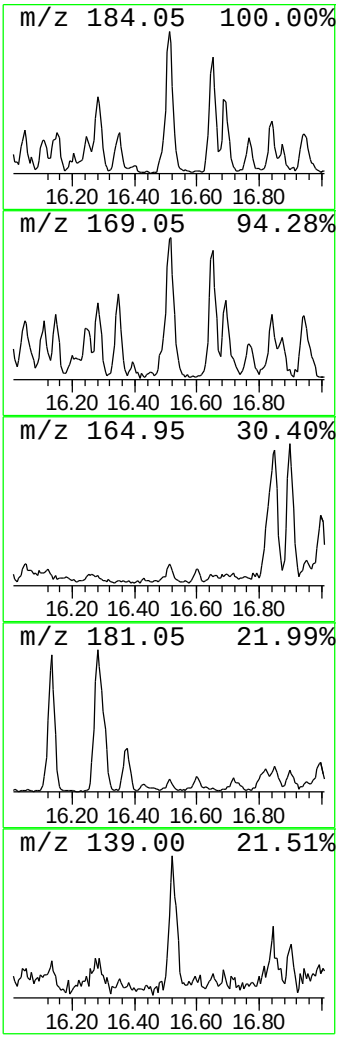
Peak Number 9 Chamazulene Concentration Rank 48

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.51	2.72 ng/ul	553421	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chamazulene	184	C14H16	000529-05-5	86
2	1,4,5,8-Tetramethylnaphthalene	184	C14H16	002717-39-7	70
3	1,1'-Biphenyl, 2-methoxy-	184	C13H12O	000086-26-0	59
4	Benzene, (4,5,5-trimethyl-1,3-cy...	184	C14H16	033930-85-7	58
5	Naphthalene, 1-methyl-7-(1-methy...	184	C14H16	000490-65-3	53





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Acq On : 12 Aug 2016 10:26
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Sample : H4384-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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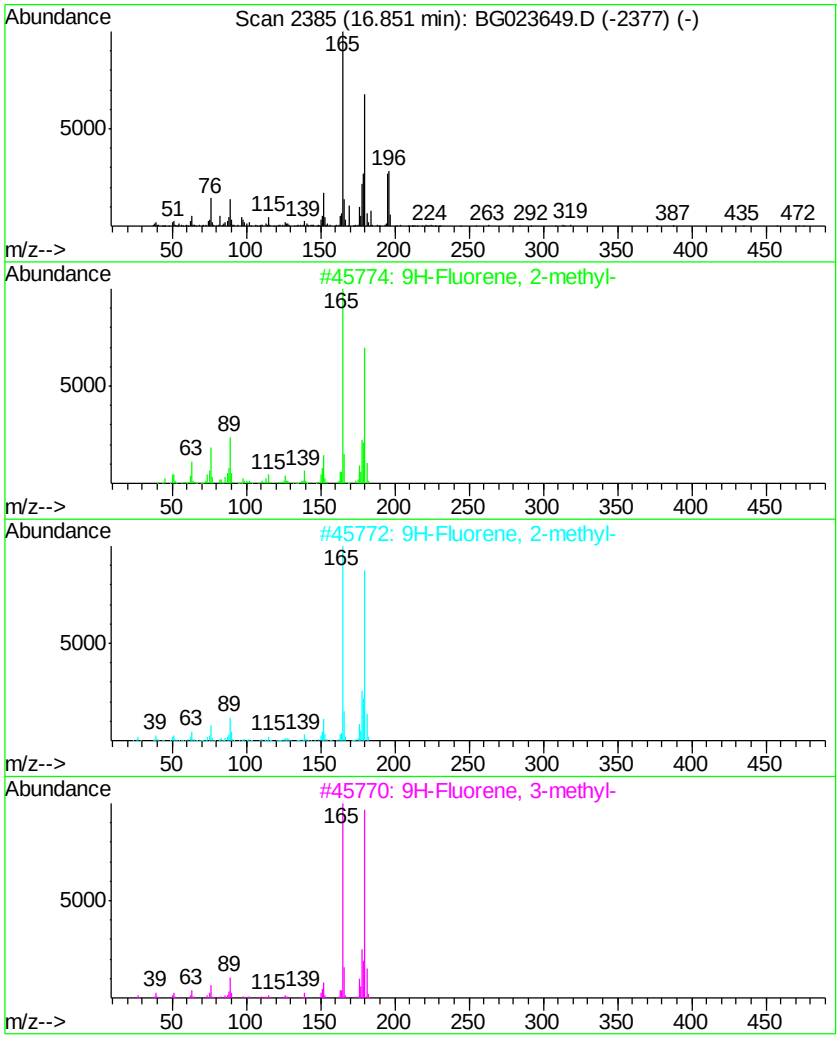
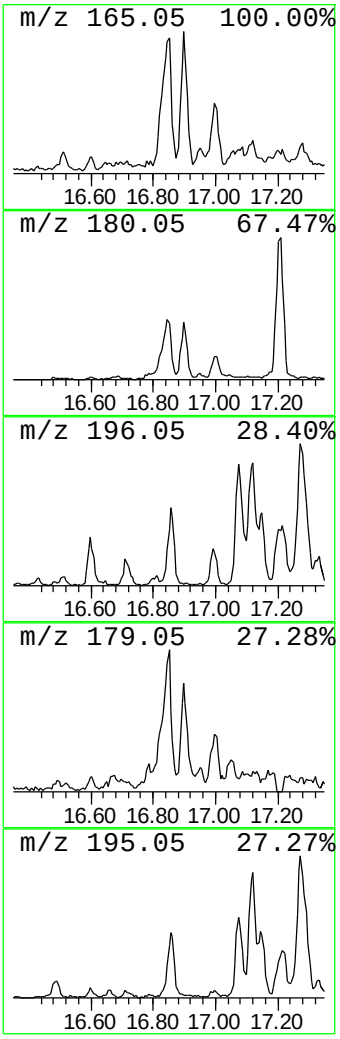
Peak Number 10 9H-Fluorene, 2-methyl- Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.85	4.33 ng/ul	880639	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	78
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	78
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	60
4	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	53
5	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	53





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Data File : BG023649.D
Acq On : 12 Aug 2016 10:26
Operator : UM/SJ
Sample : H4384-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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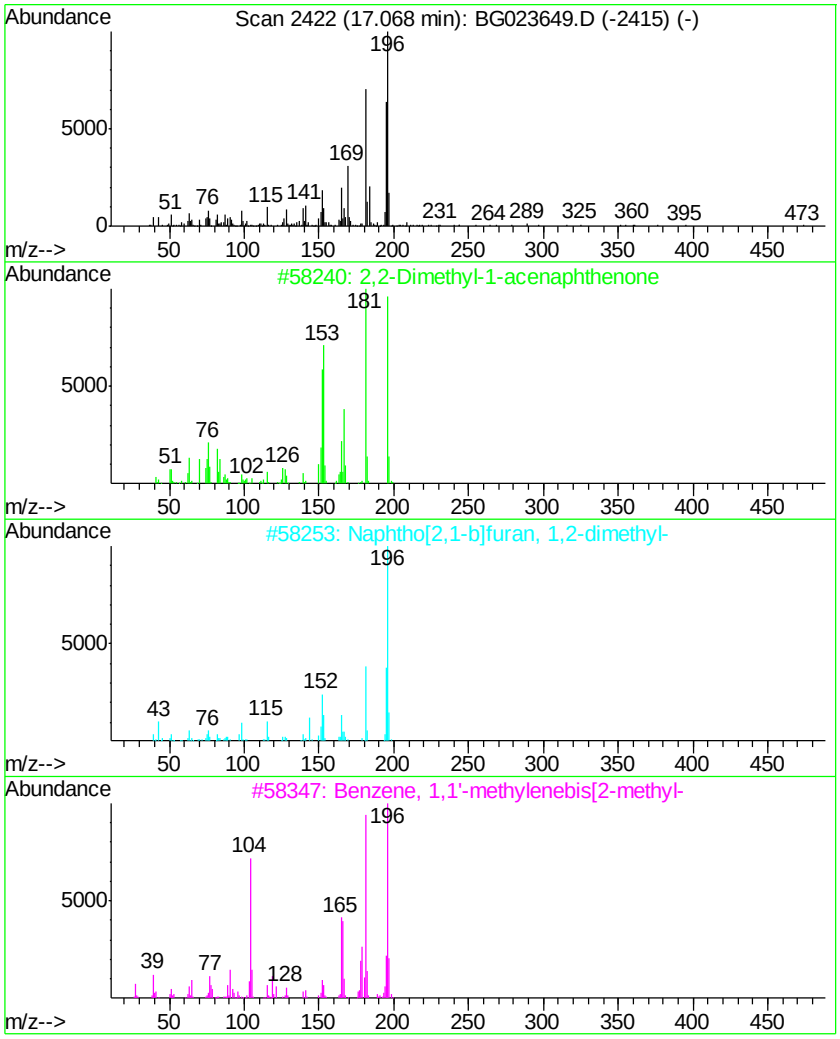
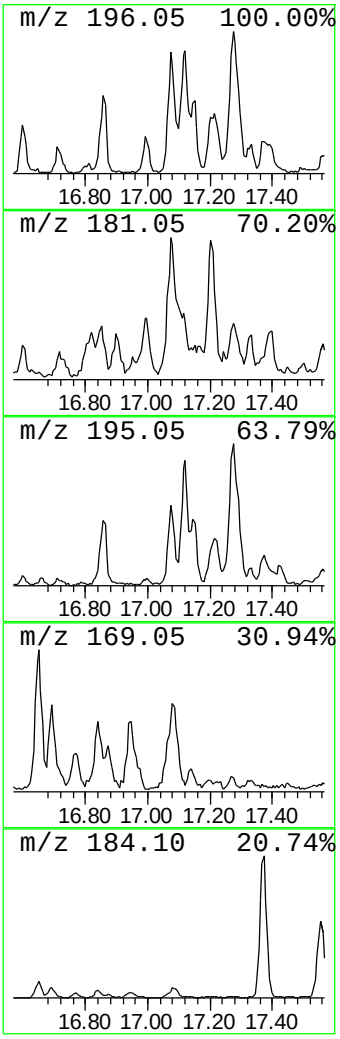
Peak Number 12 2,2-Dimethyl-1-acenaphthenone Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.07	3.92 ng/ul	798286	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2-Dimethyl-1-acenaphthenone	196	C14H12O	018086-43-6	78
2	Naphtho[2,1-b]furan, 1,2-dimethyl-	196	C14H12O	129812-23-3	58
3	Benzene, 1,1'-methylenebis[2-met...	196	C15H16	001634-74-8	50
4	Methane, di-p-tolyl-	196	C15H16	004957-14-6	47
5	Hydrosulfide, (5,6-dimethylthien...	196	C8H8N2S2	1000362-41-8	47





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Acq On : 12 Aug 2016 10:26
Operator : UM/SJ
Sample : H4384-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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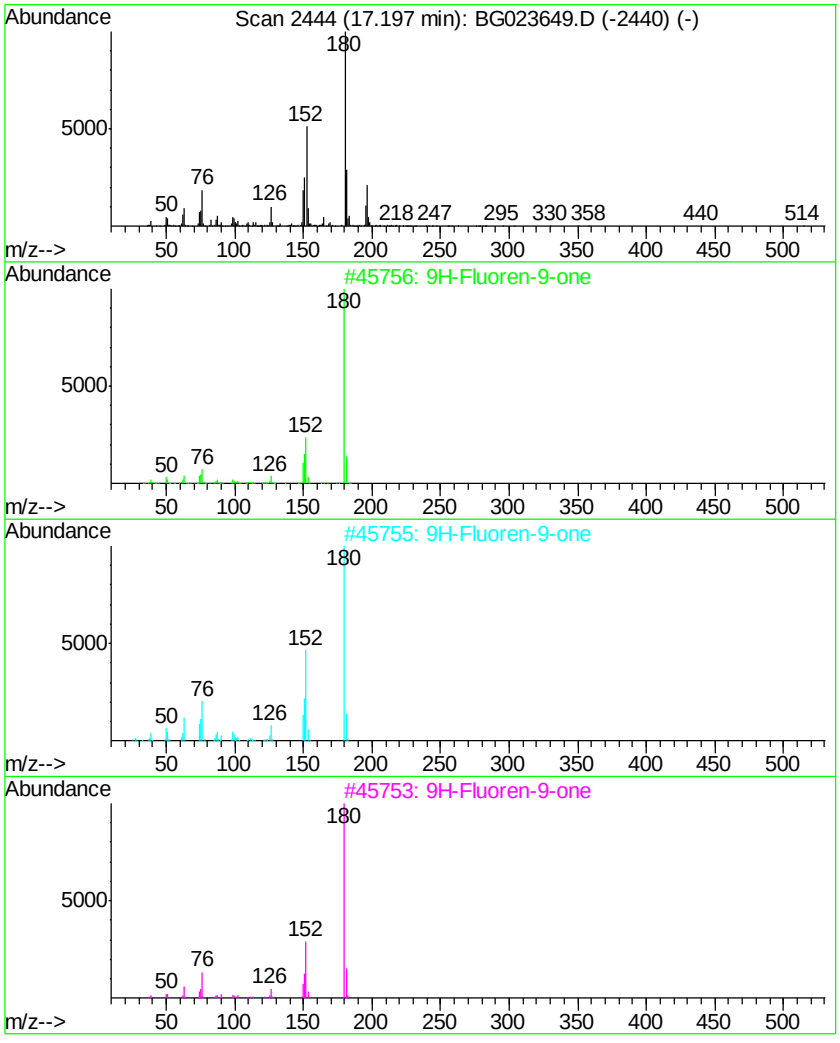
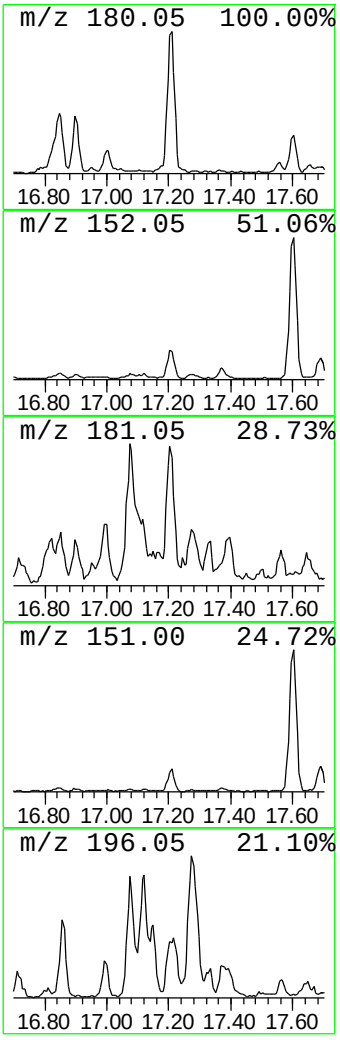
Peak Number 13 9H-Fluoren-9-one Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.20	4.83 ng/ul	983485	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	94
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	90
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	87
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	87
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	80





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081216\
Data File : BG023649.D
Acq On : 12 Aug 2016 10:26
Operator : UM/SJ
Sample : H4384-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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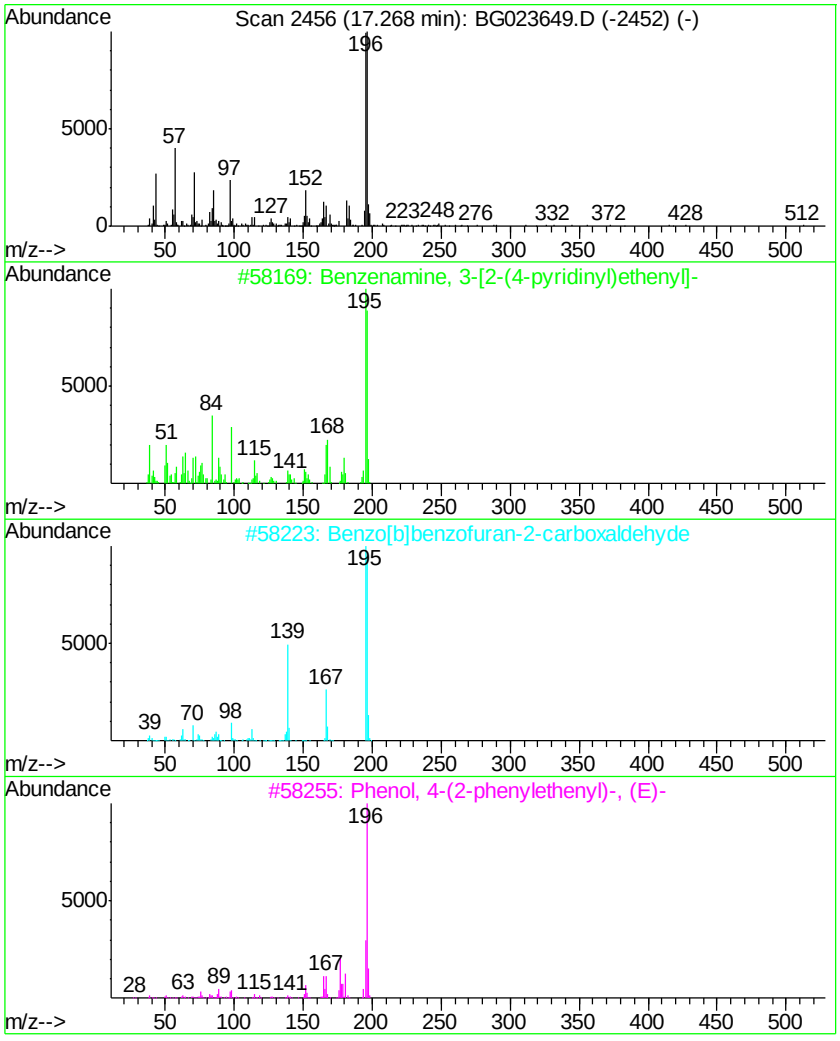
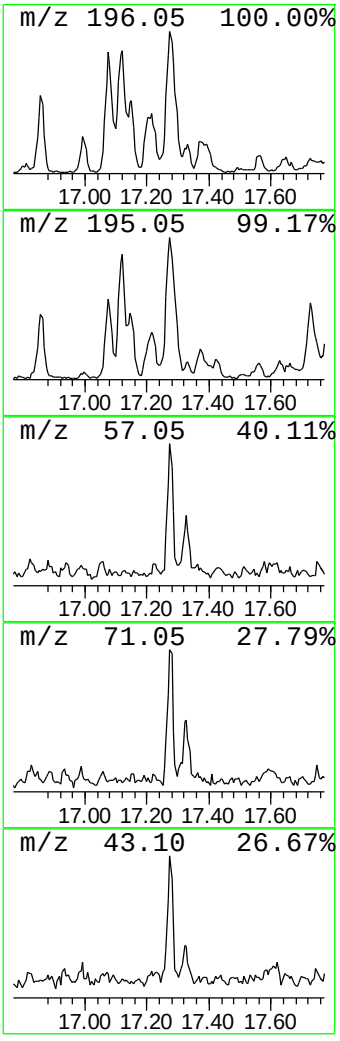
Peak Number 14 Benzenamine, 3-[2-(4-pyridi... Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.27	3.60 ng/ul	733117	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzenamine, 3-[2-(4-pyridinyl)e...	196	C13H12N2	1000337-31-3	64
2	Benzo[b]benzofuran-2-carboxaldehyde	196	C13H8O2	1000351-56-0	59
3	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	58
4	Phenol, 4-(2-phenylethenyl)-	196	C14H12O	003839-46-1	58
5	Phenol, 3-(2-phenylethenyl)-, (E)-	196	C14H12O	017861-18-6	49





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Acq On : 12 Aug 2016 10:26
Operator : UM/SJ
Sample : H4384-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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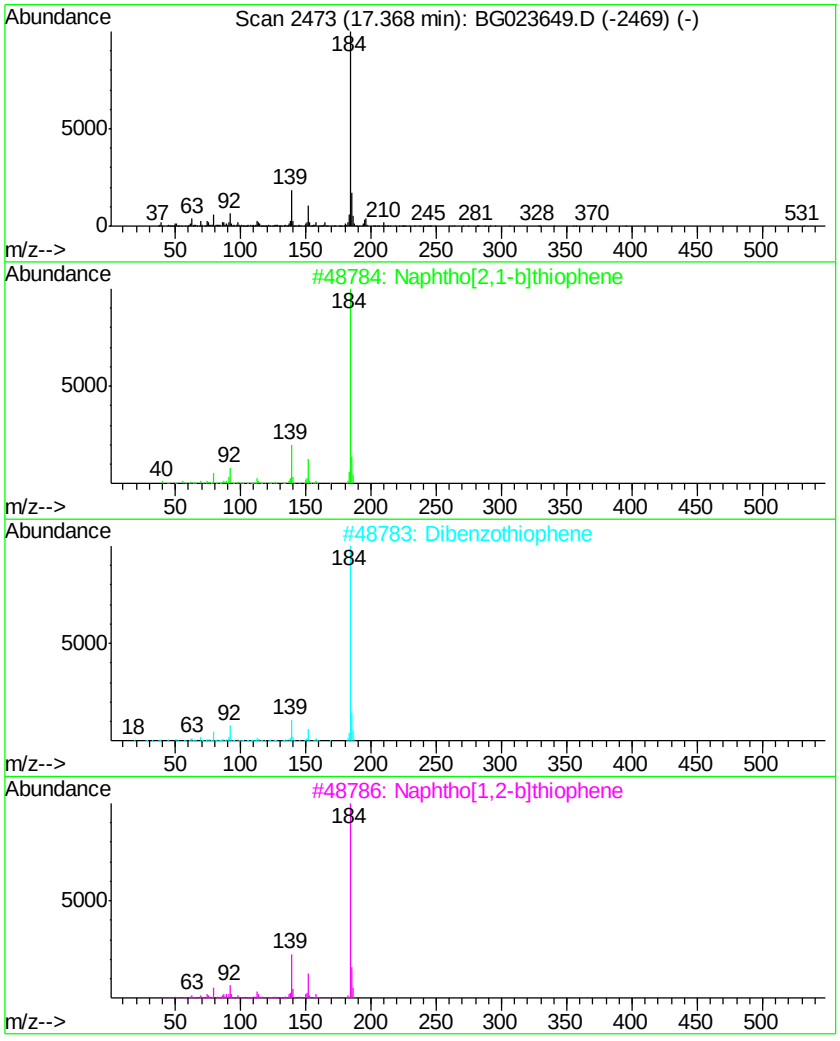
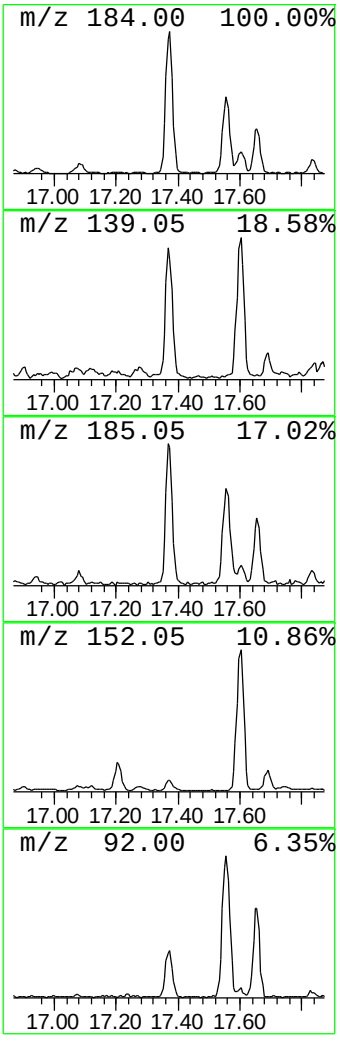
Peak Number 15 Naphtho[2,1-b]thiophene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.37	5.76 ng/ul	1171120	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	96
2	Dibenzothiophene	184	C12H8S	000132-65-0	95
3	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
5	Dibenzothiophene	184	C12H8S	000132-65-0	93





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Acq On : 12 Aug 2016 10:26
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Sample : H4384-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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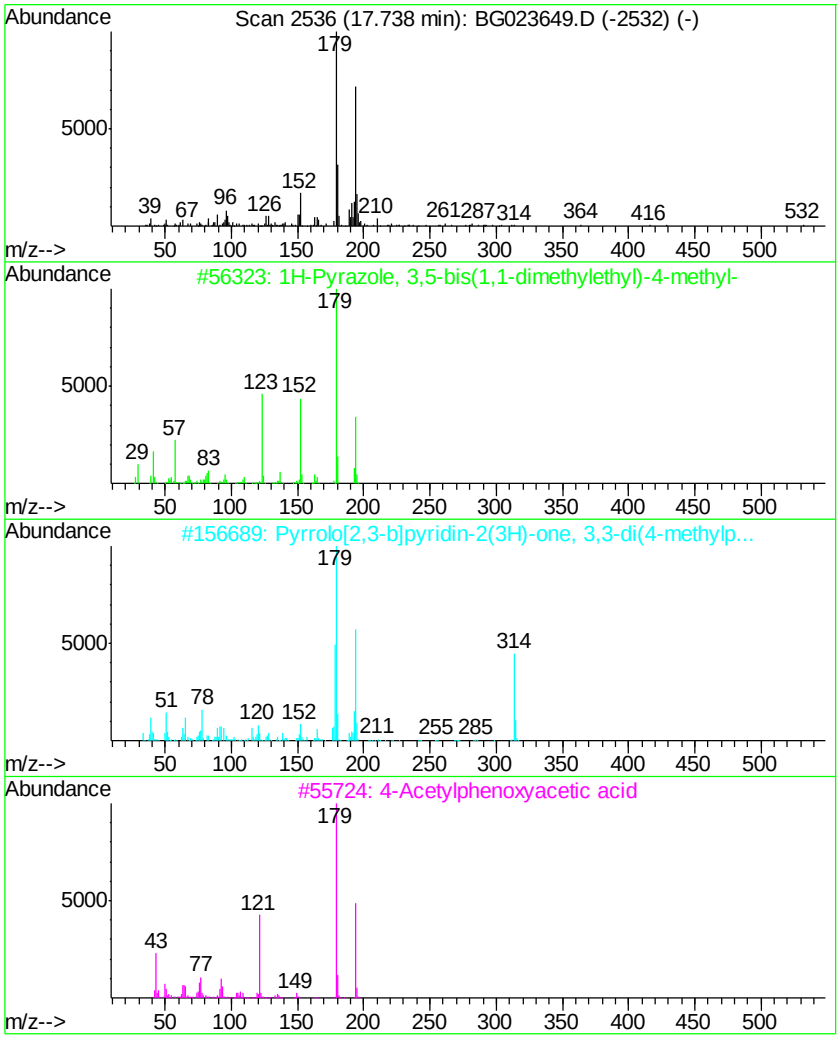
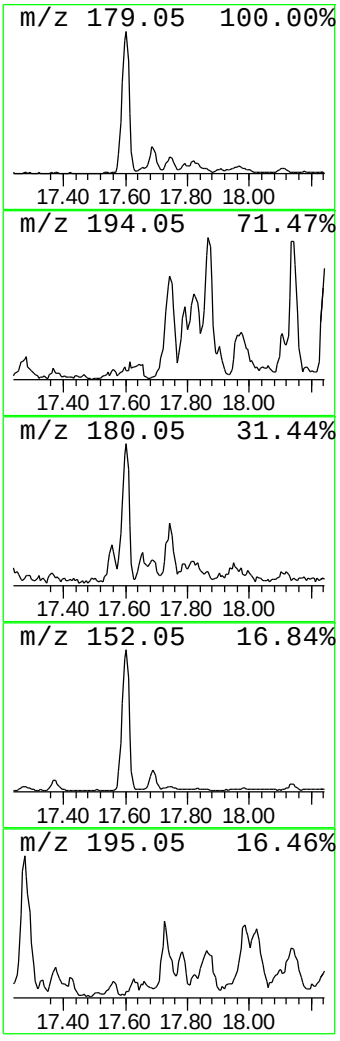
Peak Number 16 1H-Pyrazole, 3,5-bis(1,1-di... Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.74	3.65 ng/ul	741858	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Pyrazole, 3,5-bis(1,1-dimethy...	194	C12H22N2	018712-47-5	72
2	Pyrrolo[2,3-b]pyridin-2(3H)-one,...	314	C21H18N2O	309721-30-0	64
3	4-Acetylphenoxyacetic acid	194	C10H10O4	001878-81-5	53
4	9,10-Dihydro-9-(2-oxocyclopentyl...	263	C18H17NO	015539-19-2	49
5	9H-Fluorene, 1,9-dimethyl-	194	C15H14	017057-98-6	45





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Operator : UM/SJ
Sample : H4384-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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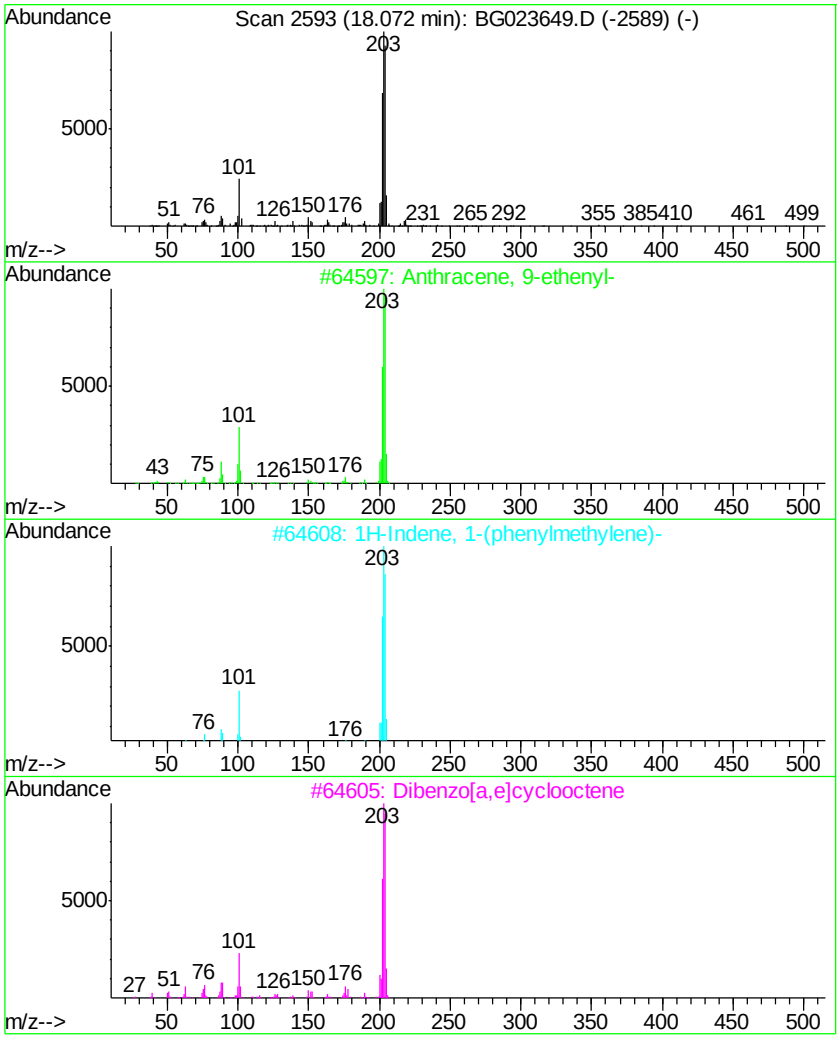
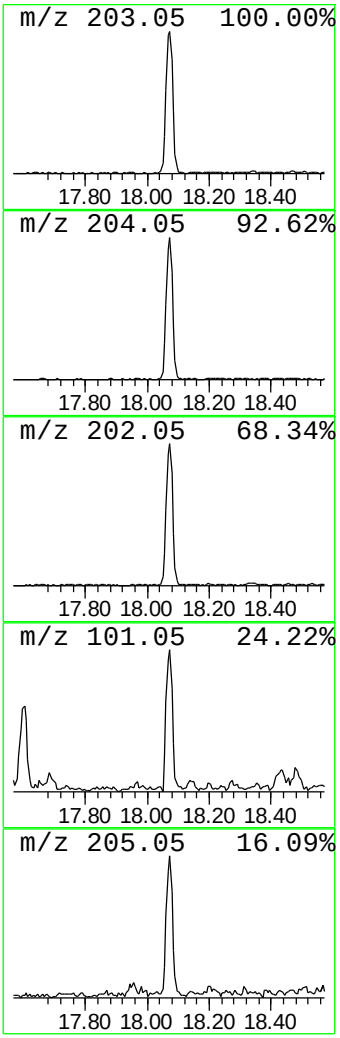
Peak Number 17 Anthracene, 9-ethenyl- Concentration Rank 44

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.07	3.42 ng/ul	695744	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	89
2	1H-Indene, 1-(phenylmethylene)-	204	C16H12	005394-86-5	89
3	Dibenzo[a,e]cyclooctene	204	C16H12	000262-89-5	76
4	1,4-Ethenoanthracene, 1,4-dihydro-	204	C16H12	027765-96-4	72
5	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	70





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Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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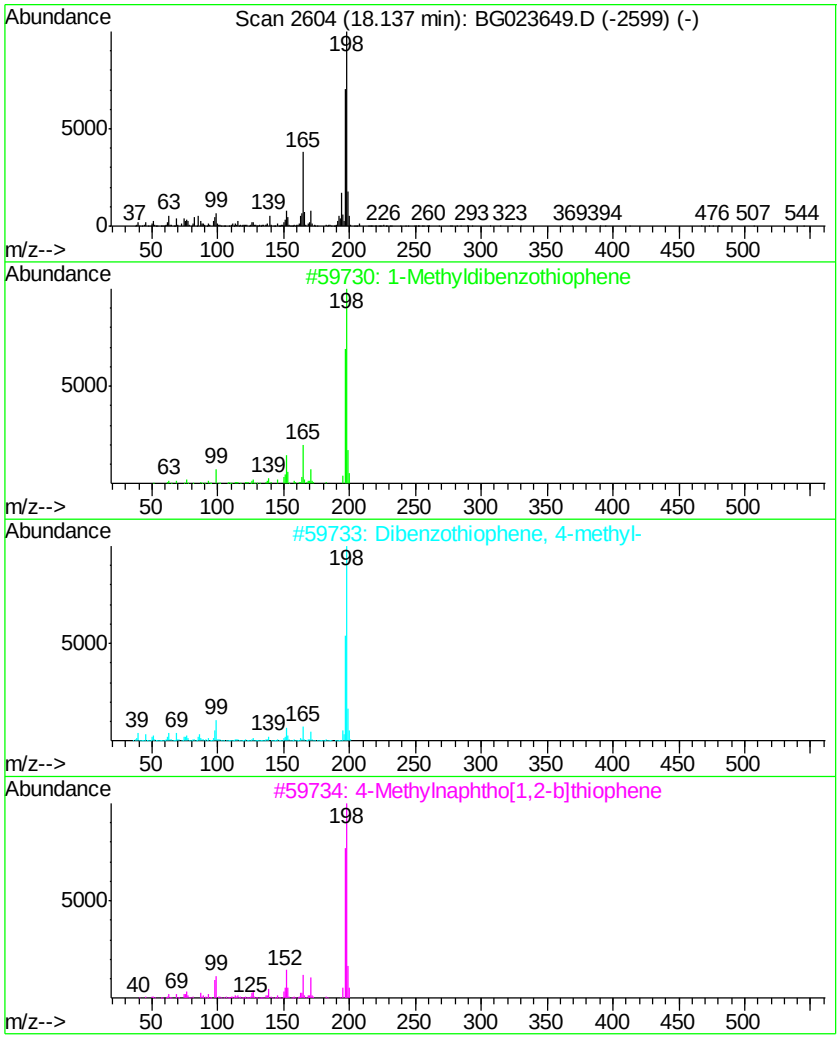
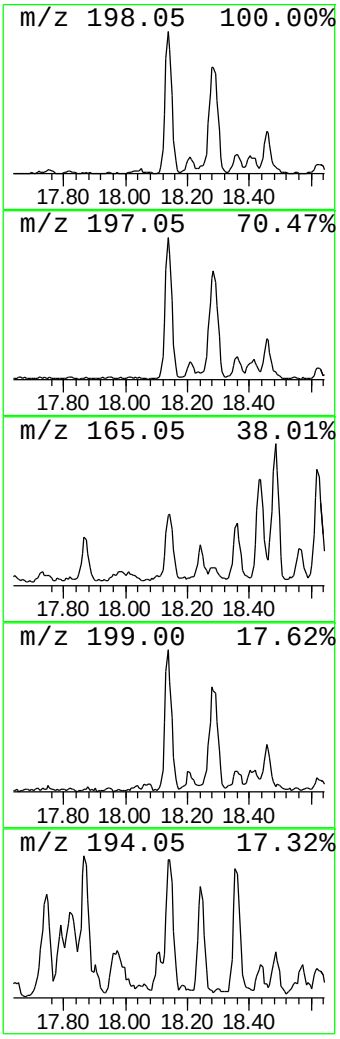
Peak Number 18 1-Methyldibenzothiophene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.14	6.79 ng/ul	1382490	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	80
2	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	72
3	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	72
4	Thioxanthene	198	C13H10S	000261-31-4	64
5	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	64





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Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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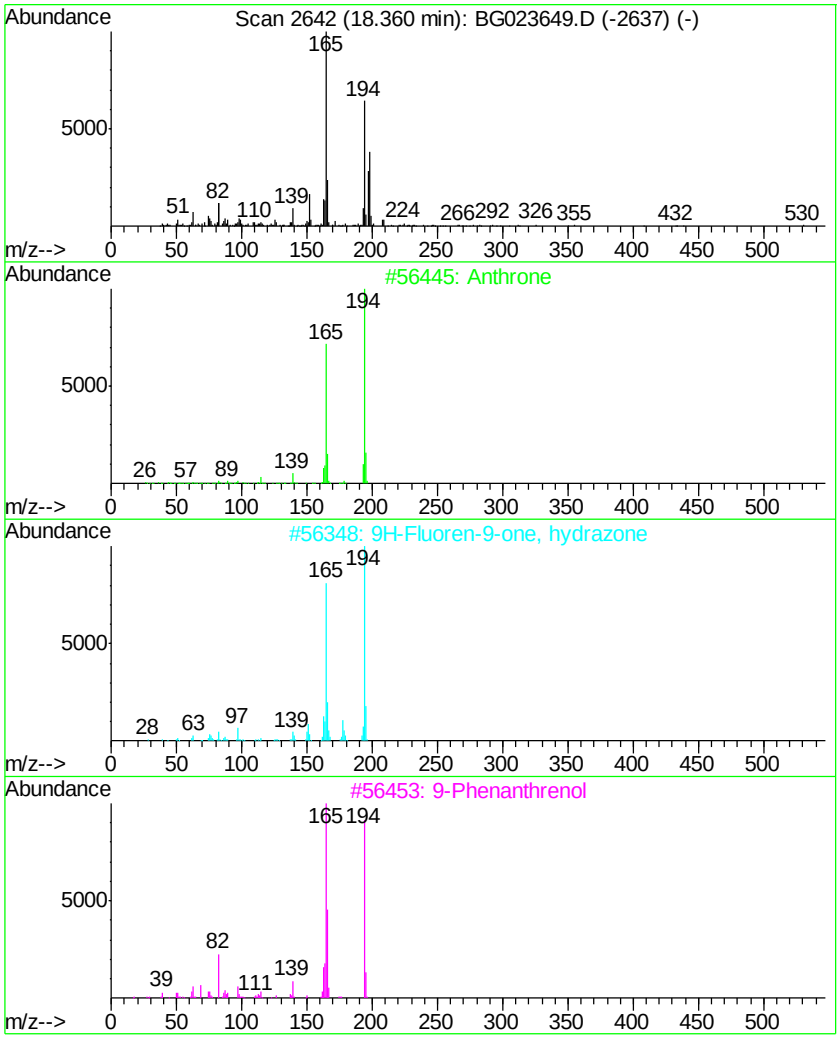
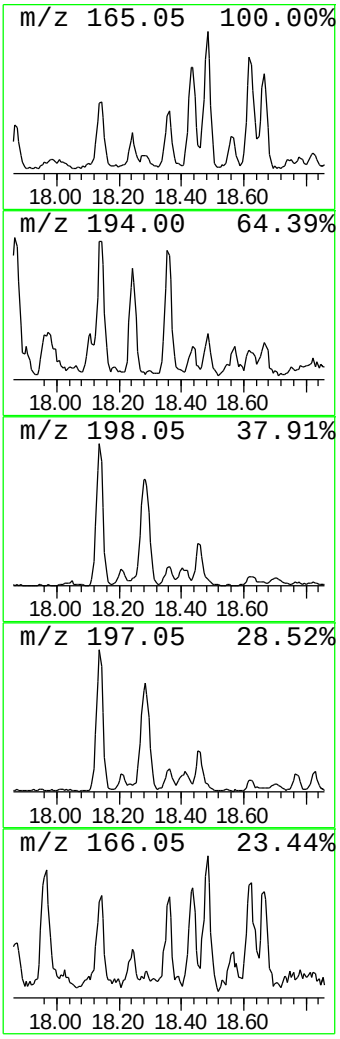
Peak Number 20 Anthrone Concentration Rank 51

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.36	2.57 ng/ul	522976	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthrone	194	C14H10O	000090-44-8	76
2	9H-Fluoren-9-one, hydrazone	194	C13H10N2	013629-22-6	59
3	9-Phenanthrenol	194	C14H10O	000484-17-3	58
4	Ethenone, 2,2-diphenyl-	194	C14H10O	000525-06-4	52
5	1-Propanone, 1-(2,4-dimethoxyphe...	194	C11H14O3	000831-00-5	52





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081216\
Data File : BG023649.D
Acq On : 12 Aug 2016 10:26
Operator : UM/SJ
Sample : H4384-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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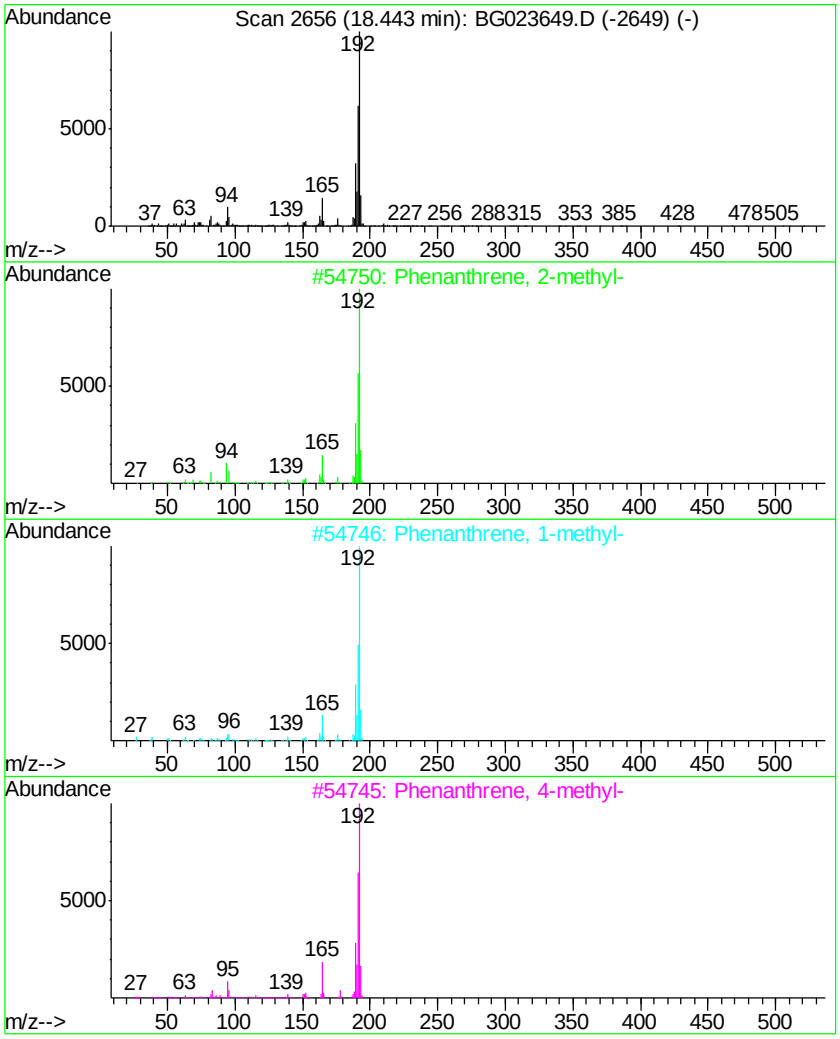
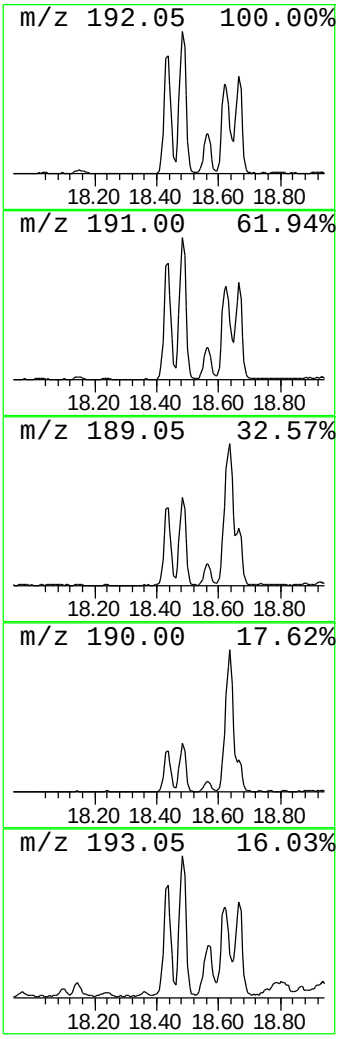
Peak Number 21 Phenanthrene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.44	22.53 ng/ul	4584960	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081216\
Data File : BG023649.D
Acq On : 12 Aug 2016 10:26
Operator : UM/SJ
Sample : H4384-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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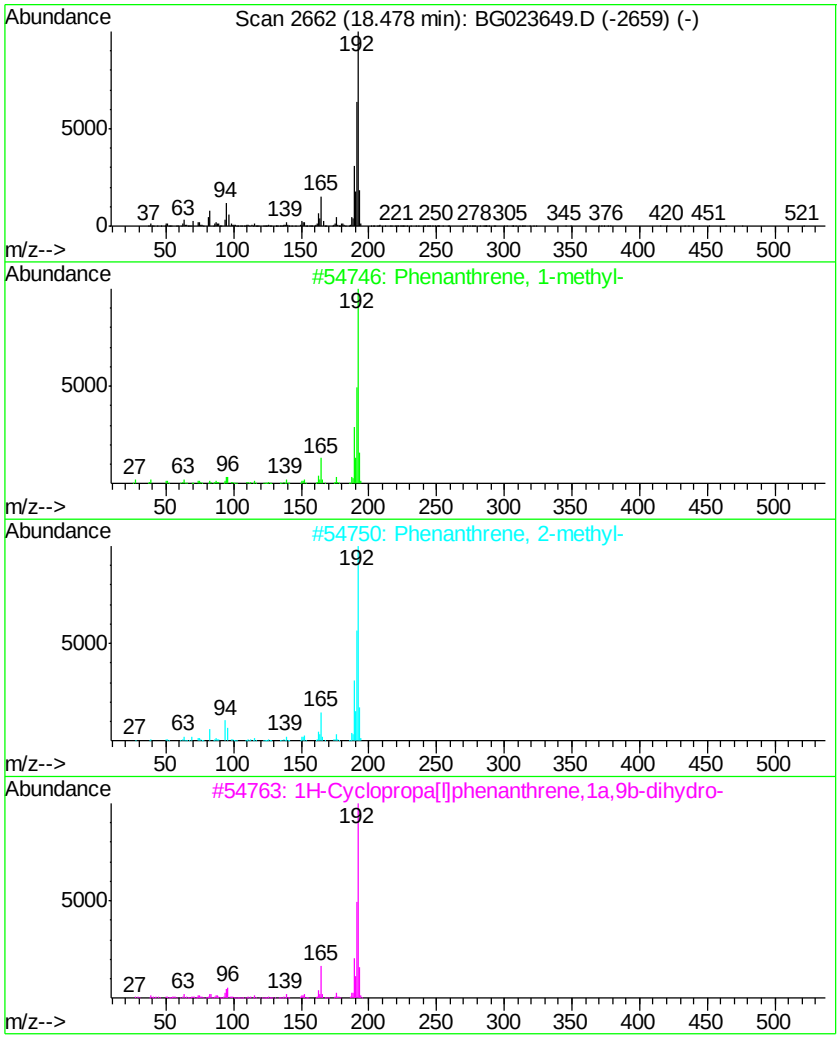
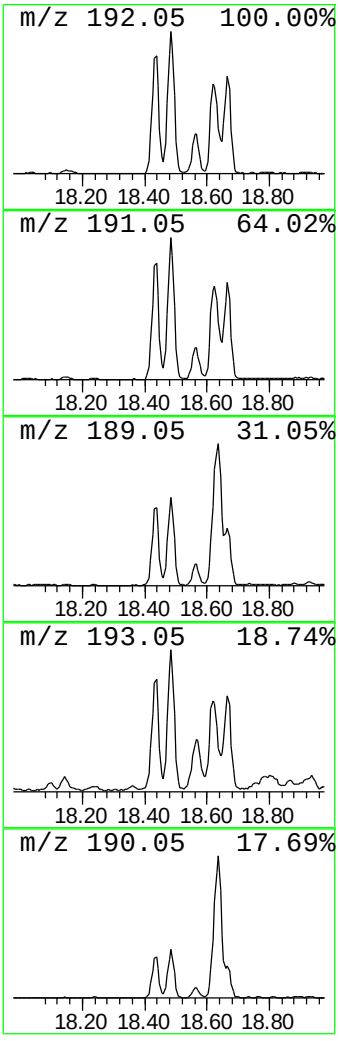
Peak Number 22 Phenanthrene, 1-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.48	24.28 ng/ul	4940140	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081216\
Data File : BG023649.D
Acq On : 12 Aug 2016 10:26
Operator : UM/SJ
Sample : H4384-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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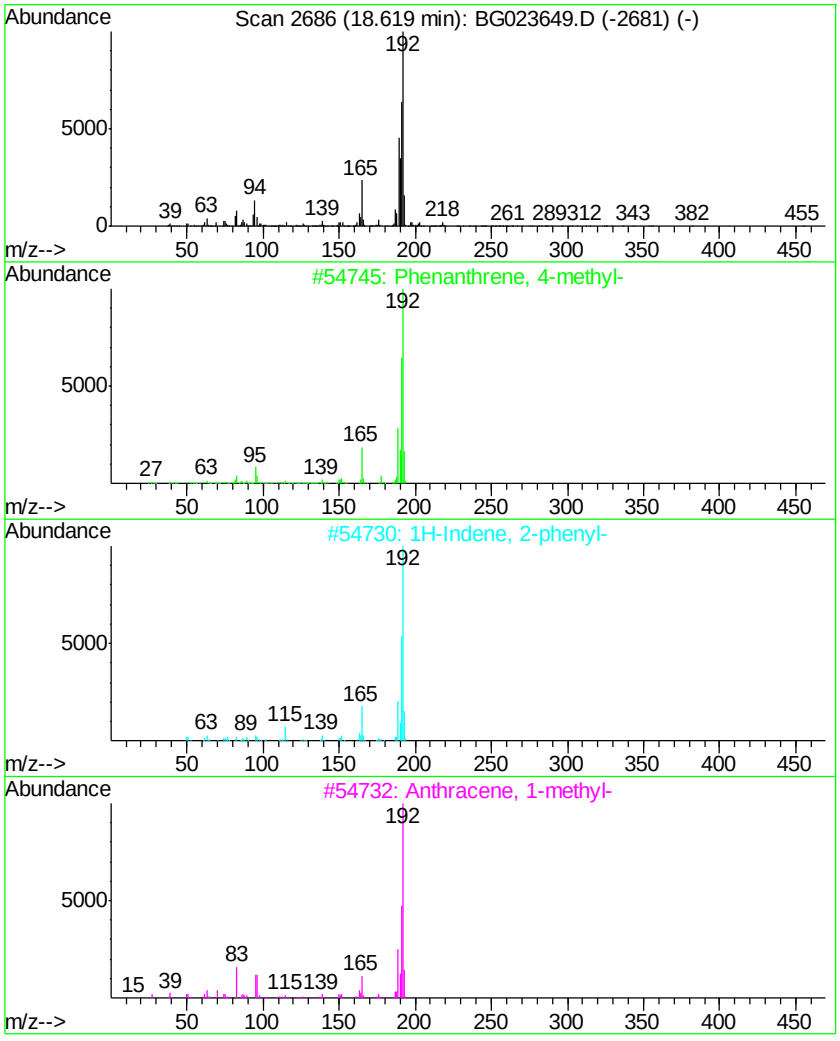
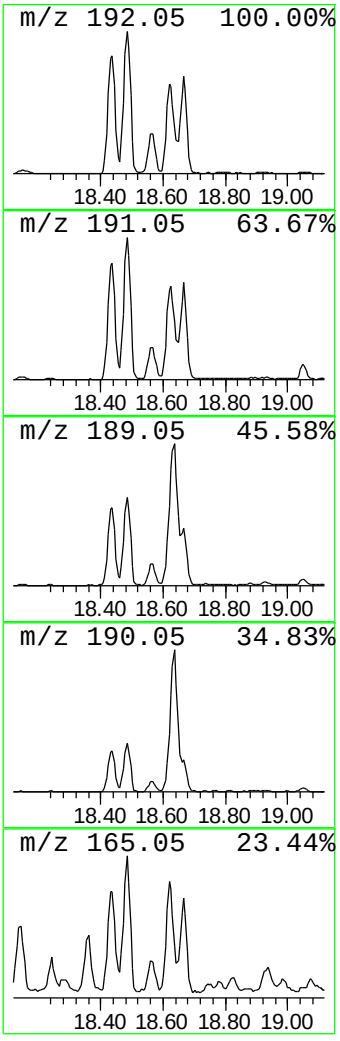
Peak Number 24 Phenanthrene, 4-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.62	26.75 ng/ul	5442930	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	60
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	60
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	60
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	60
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	60





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081216\
Data File : BG023649.D
Acq On : 12 Aug 2016 10:26
Operator : UM/SJ
Sample : H4384-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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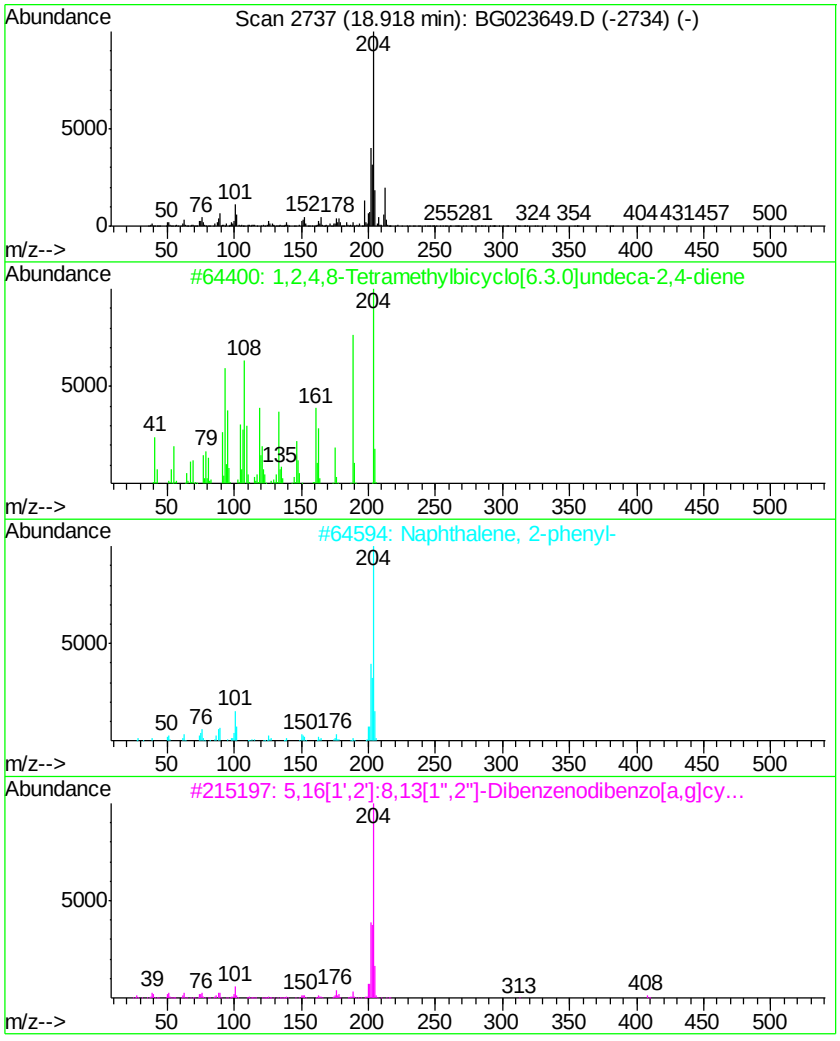
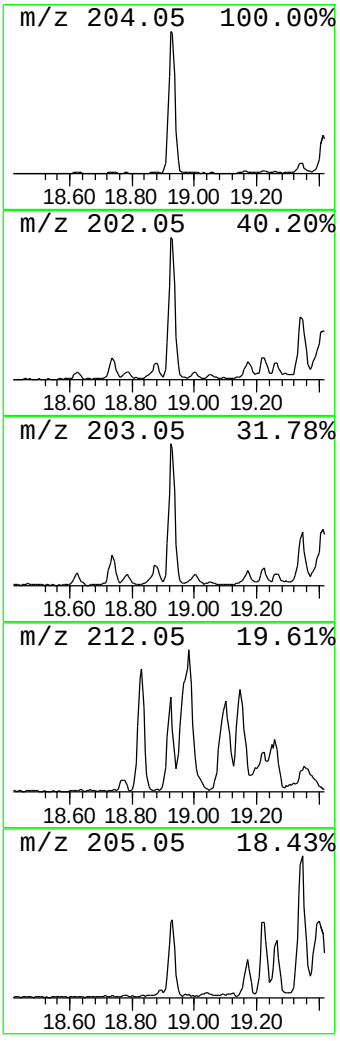
Peak Number 26 1,2,4,8-Tetramethylbicyclo[... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.92	11.32 ng/ul	2303770	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	94
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	91
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	64
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	64





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081216\
Data File : BG023649.D
Acq On : 12 Aug 2016 10:26
Operator : UM/SJ
Sample : H4384-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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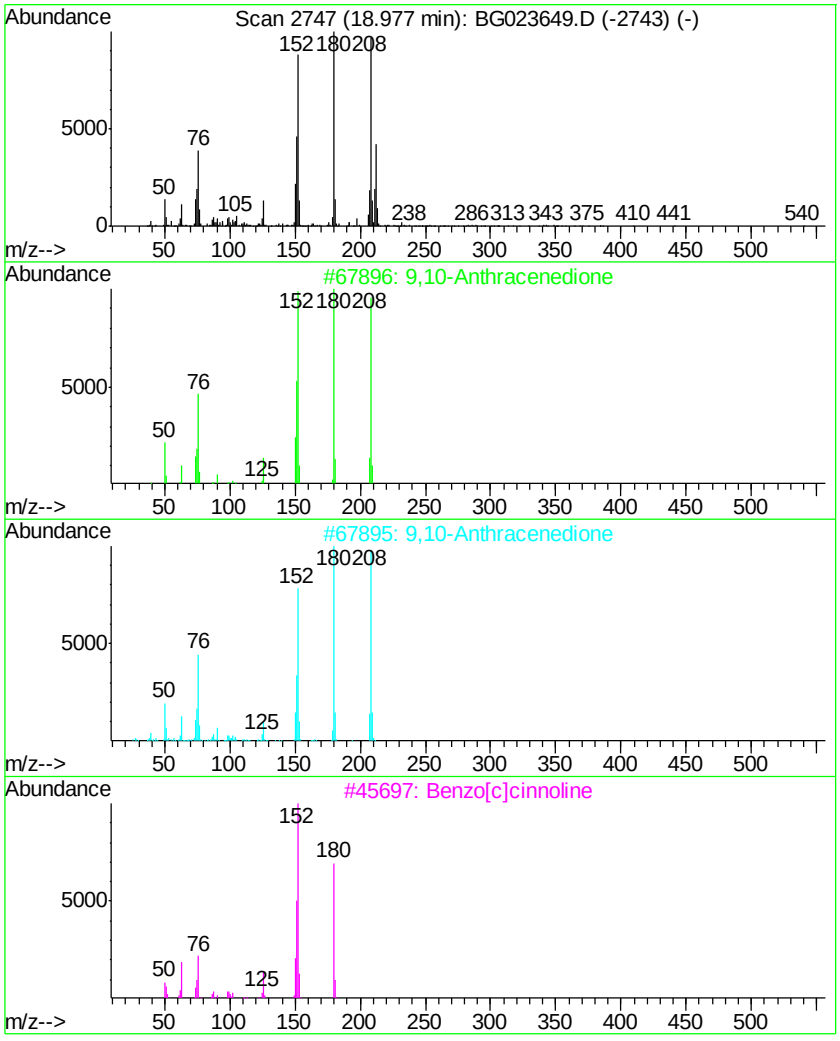
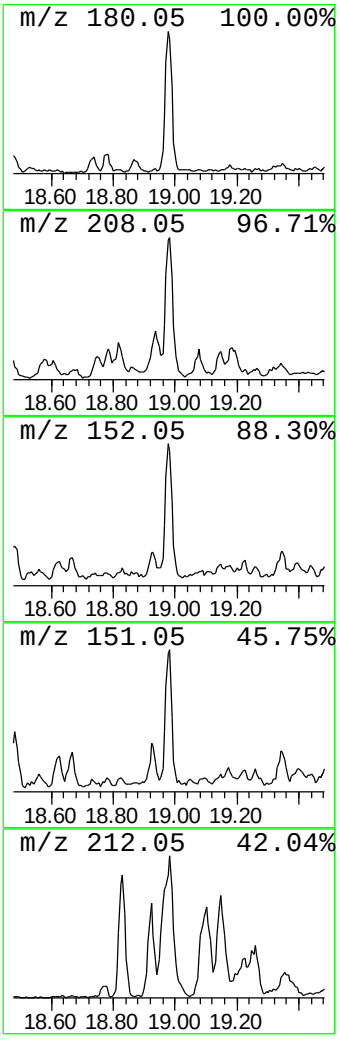
Peak Number 27 9,10-Anthracenedione Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.98	8.54 ng/ul	1736760	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	96
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	93
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	89
4	9,10-Anthracenedione	208	C14H8O2	000084-65-1	89
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	70





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081216\
Data File : BG023649.D
Acq On : 12 Aug 2016 10:26
Operator : UM/SJ
Sample : H4384-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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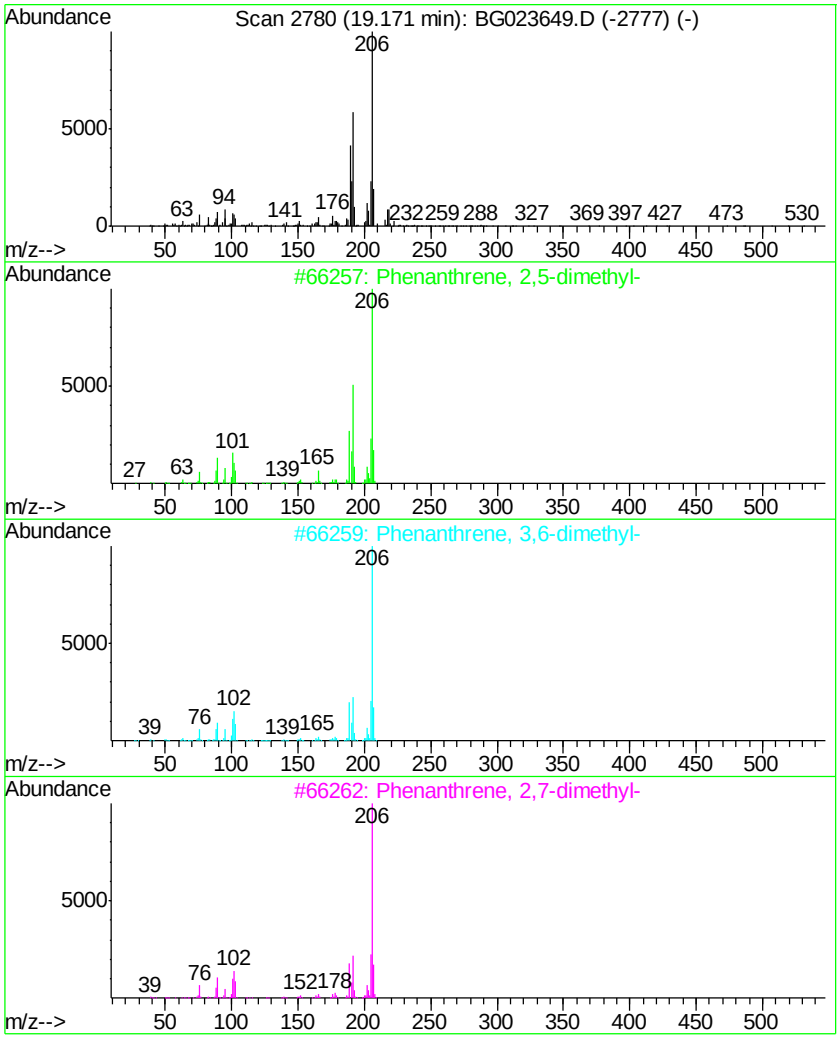
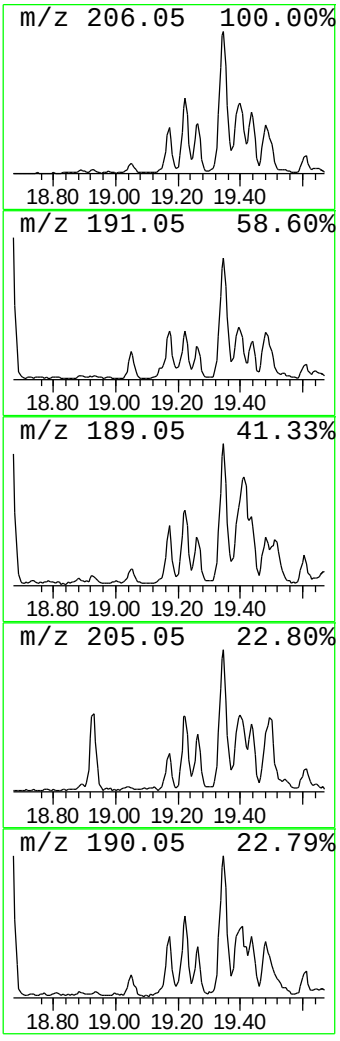
Peak Number 28 Phenanthrene, 2,5-dimethyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.17	5.66 ng/ul	1151780	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
3	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	90
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	90
5	di-p-Tolylacetylene	206	C16H14	002789-88-0	87





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Data File : BG023649.D
Acq On : 12 Aug 2016 10:26
Operator : UM/SJ
Sample : H4384-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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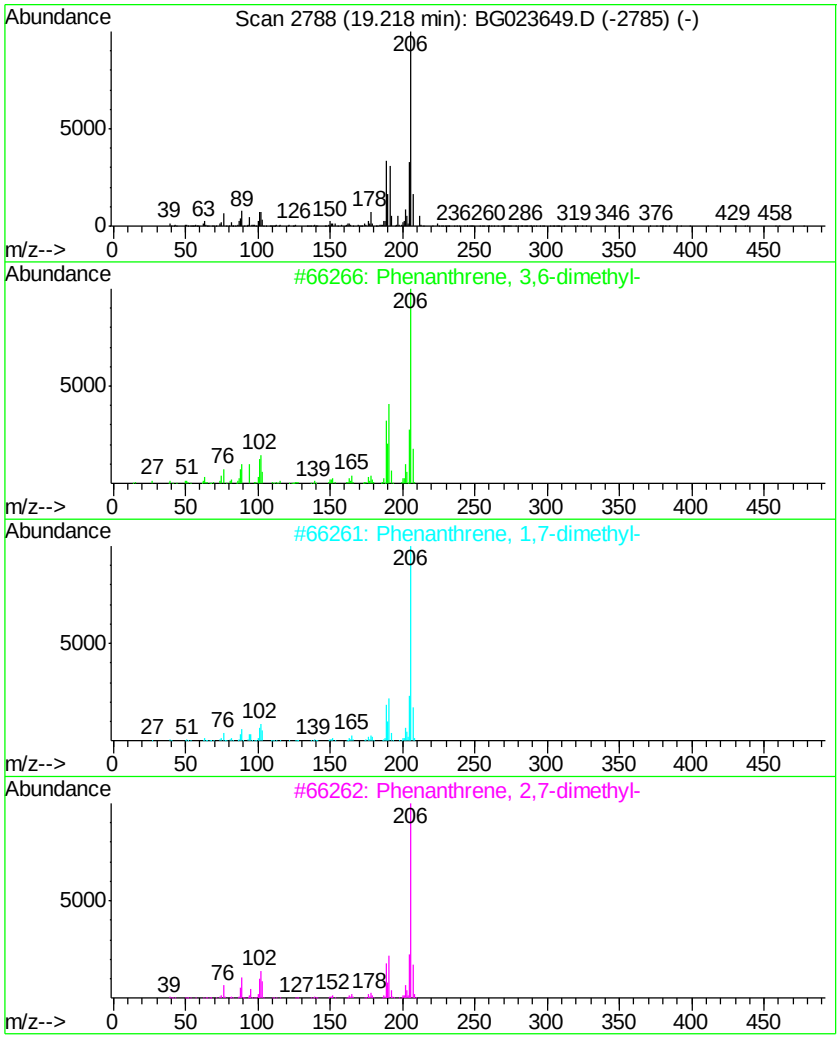
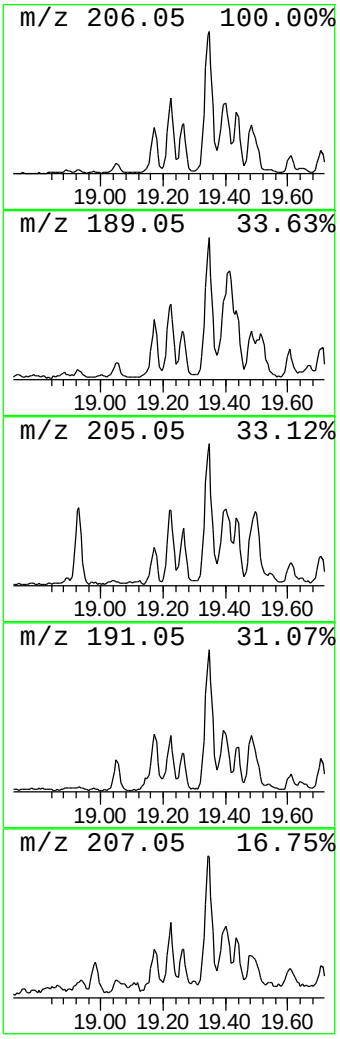
Peak Number 29 Phenanthrene, 3,6-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.22	6.54 ng/ul	1330410	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	96
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	91
3	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	91
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	90
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	83





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Acq On : 12 Aug 2016 10:26
Operator : UM/SJ
Sample : H4384-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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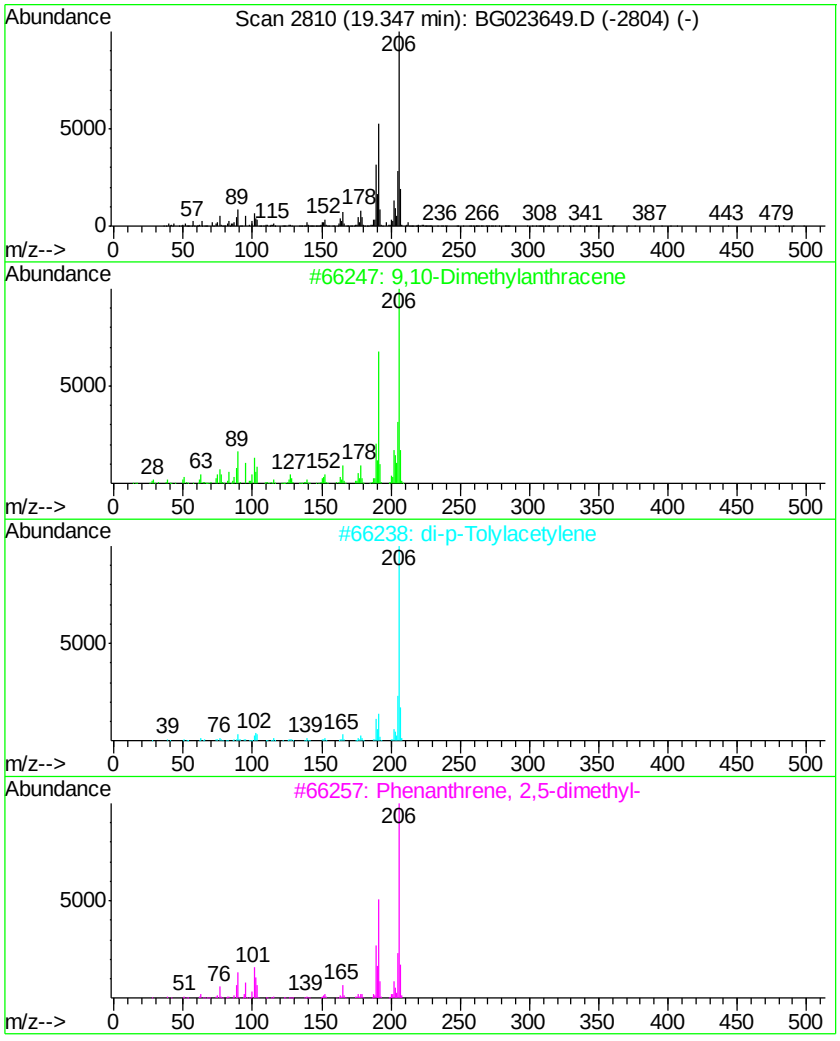
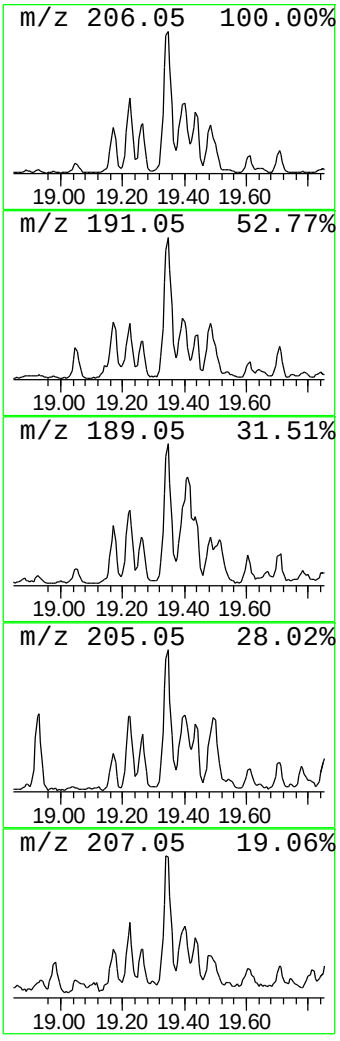
Peak Number 31 9,10-Dimethylanthracene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.35	18.36 ng/ul	3736840	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	93
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	91
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081216\
Data File : BG023649.D
Acq On : 12 Aug 2016 10:26
Operator : UM/SJ
Sample : H4384-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Naphthalene, 1,6-...	13.96	3.8	ng/ul	646054	3	14.79	3440080	20.0
Naphthalene, 2,3-...	14.11	5.5	ng/ul	939454	3	14.79	3440080	20.0
Naphthalene, 1,6,...	15.18	5.9	ng/ul	1020190	3	14.79	3440080	20.0
Naphthalene, 2,3,...	15.26	3.5	ng/ul	599493	3	14.79	3440080	20.0
Dibenzofuran, 4-m...	16.13	4.6	ng/ul	796338	3	14.79	3440080	20.0
6H-Dibenzo[b,d]-p...	16.28	3.9	ng/ul	786965	4	17.56	4069600	20.0
Chamazulene	16.51	2.7	ng/ul	553421	4	17.56	4069600	20.0
9H-Fluorene, 2-me...	16.85	4.3	ng/ul	880639	4	17.56	4069600	20.0
2,2-Dimethyl-1-ac...	17.07	3.9	ng/ul	798286	4	17.56	4069600	20.0
9H-Fluoren-9-one	17.20	4.8	ng/ul	983485	4	17.56	4069600	20.0
Benzenamine, 3-[2...	17.27	3.6	ng/ul	733117	4	17.56	4069600	20.0
Naphtho[2,1-b]thi...	17.37	5.8	ng/ul	1171120	4	17.56	4069600	20.0
1H-Pyrazole, 3,5-...	17.74	3.6	ng/ul	741858	4	17.56	4069600	20.0
Anthracene, 9-eth...	18.07	3.4	ng/ul	695744	4	17.56	4069600	20.0
1-Methyldibenzoth...	18.14	6.8	ng/ul	1382490	4	17.56	4069600	20.0
Anthrone	18.36	2.6	ng/ul	522976	4	17.56	4069600	20.0
Phenanthrene, 2-m...	18.44	22.5	ng/ul	4584960	4	17.56	4069600	20.0
Phenanthrene, 1-m...	18.48	24.3	ng/ul	4940140	4	17.56	4069600	20.0
Phenanthrene, 4-m...	18.62	26.8	ng/ul	5442930	4	17.56	4069600	20.0
1,2,4,8-Tetrameth...	18.92	11.3	ng/ul	2303770	4	17.56	4069600	20.0
9,10-Anthracenedione	18.98	8.5	ng/ul	1736760	4	17.56	4069600	20.0
Phenanthrene, 2,5...	19.17	5.7	ng/ul	1151780	4	17.56	4069600	20.0
Phenanthrene, 3,6...	19.22	6.5	ng/ul	1330410	4	17.56	4069600	20.0
9,10-Dimethylanth...	19.35	18.4	ng/ul	3736840	4	17.56	4069600	20.0