LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG081316\
Data File : BG023707.D
Acq On : 14 Aug 2016 3:18
Operator : UM/SJ
Sample : H4388-05
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : PR002-SS002-0002-01

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	7.267	745	754	765	rBV	521097	1018480	23.15%	1.165%
2	7.426	774	781	791	rVB	417176	701076	15.94%	0.802%
3	7.643	809	818	827	rBV	523500	942428	21.42%	1.078%
4	8.113	890	898	909	rBV2	519130	879556	19.99%	1.006%
5	8.830	1013	1020	1029	rBV	633358	1112702	25.29%	1.273%
6	9.288	1091	1098	1107	rVV	509316	946473	21.51%	1.083%
7	9.406	1109	1118	1125	rVV4	44119	100856	2.29%	0.115%
8	10.023	1214	1223	1232	rVV	459643	852118	19.37%	0.975%
9	10.569	1308	1316	1326	rBV	654703	1250120	28.42%	1.430%
10	10.951	1373	1381	1388	rVV	716510	1308328	29.74%	1.497%
11	11.086	1396	1404	1418	rVV	395717	768054	17.46%	0.879%
12	12.607	1656	1663	1670	rBV	76047	140108	3.18%	0.160%
13	12.825	1693	1700	1706	rBV	78172	140997	3.20%	0.161%
14	13.958	1881	1893	1898	rBV3	60646	151385	3.44%	0.173%
15	14.099	1911	1917	1922	rVV2	136659	244997	5.57%	0.280%
16	14.182	1922	1931	1935	rVV	1190150	1921650	43.68%	2.198%
17	14.229	1935	1939	1947	rVV	1132111	1656782	37.66%	1.895%
18	14.340	1951	1958	1961	rVV	67864	108913	2.48%	0.125%
19	14.481	1974	1982	1997	rBV	1306311	2388333	54.29%	2.732%
20	14.787	2020	2034	2041	rBV3	1175077	2056610	46.75%	2.353%
21	14.851	2041	2045	2051	rVB3	56402	98683	2.24%	0.113%
22	15.010	2064	2072	2080	rBV	353133	749754	17.04%	0.858%
23	15.180	2094	2101	2109	rVB2	102724	211712	4.81%	0.242%
24	15.257	2109	2114	2120	rVB	103940	159269	3.62%	0.182%
25	15.398	2131	2138	2143	rBV4	98847	194997	4.43%	0.223%
26	15.451	2143	2147	2152	rVV	68847	98092	2.23%	0.112%
27	15.568	2160	2167	2170	rBV3	67340	155854	3.54%	0.178%
28	15.603	2170	2173	2178	rVB2	133122	178498	4.06%	0.204%
29	15.779	2193	2203	2209	rBV	1644337	2667143	60.63%	3.051%
30	15.838	2209	2213	2221	rVB	140064	258128	5.87%	0.295%
31	15.915	2221	2226	2232	rBV	451164	684083	15.55%	0.783%
32	16.132	2256	2263	2270	rVB6	55413	125329	2.85%	0.143%
33	16.279	2284	2288	2295	rVB2	67125	121526	2.76%	0.139%
34	16.473	2317	2321	2324	rBV	113247	185030	4.21%	0.212%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG081316\
Data File : BG023707.D
Acq On : 14 Aug 2016 3:18
Operator : UM/SJ
Sample : H4388-05
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : PR002-SS002-0002-01

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	16.508	2324	2327	2337	rVB5	103548	212770	4.84%	0.243%
36	16.843	2375	2384	2389	rBV5	125929	328616	7.47%	0.376%
37	16.896	2389	2393	2398	rVV	77059	117259	2.67%	0.134%
38	16.995	2406	2410	2415	rVB5	67810	114009	2.59%	0.130%
39	17.078	2416	2424	2428	rBV8	65210	161817	3.68%	0.185%
40	17.201	2441	2445	2452	rVB3	127749	212160	4.82%	0.243%
41	17.272	2453	2457	2462	rBV2	112013	167018	3.80%	0.191%
42	17.366	2469	2473	2478	rVB	202177	296886	6.75%	0.340%
43	17.418	2478	2482	2487	rBV2	129064	167530	3.81%	0.192%
44	17.554	2499	2505	2508	rBV	1211515	1860581	42.29%	2.128%
45	17.595	2508	2512	2517	rVB	1978946	2835708	64.46%	3.244%
46	17.653	2517	2522	2526	rBV2	1502361	2282198	51.88%	2.611%
47	17.742	2532	2537	2542	rVB3	88906	146187	3.32%	0.167%
48	17.965	2571	2575	2580	rVV4	74920	119668	2.72%	0.137%
49	18.135	2600	2604	2612	rVB	305794	477137	10.85%	0.546%
50	18.288	2624	2630	2637	rVB2	185871	442873	10.07%	0.507%
51	18.364	2638	2643	2648	rVV4	125647	204354	4.65%	0.234%
52	18.429	2648	2654	2658	rVV2	1166179	1946361	44.24%	2.227%
53	18.482	2658	2663	2669	rVB	1176367	1706727	38.79%	1.952%
54	18.558	2673	2676	2681	rBV3	87749	136070	3.09%	0.156%
55	18.623	2681	2687	2691	rBV2	853073	1602747	36.43%	1.833%
56	18.664	2691	2694	2698	rVB	670905	865910	19.68%	0.991%
57	18.822	2718	2721	2726	rVB3	126074	175272	3.98%	0.201%
58	18.922	2733	2738	2742	rBV2	421981	642195	14.60%	0.735%
59	18.975	2742	2747	2756	rVB2	530156	958172	21.78%	1.096%
60	19.169	2772	2780	2784	rBV2	332377	650084	14.78%	0.744%
61	19.222	2785	2789	2792	rVV	437136	553040	12.57%	0.633%
62	19.257	2792	2795	2800	rVB2	297507	390392	8.87%	0.447%
63	19.339	2804	2809	2814	rBV	954492	1577908	35.87%	1.805%
64	19.398	2814	2819	2823	rVV3	315552	624092	14.19%	0.714%
65	19.433	2823	2825	2829	rVB	317962	336567	7.65%	0.385%
66	19.486	2829	2834	2839	rBV3	380161	831619	18.90%	0.951%
67	19.610	2846	2855	2860	rVB	2283261	3519484	80.00%	4.026%
68	19.662	2860	2864	2867	rBV	204205	301676	6.86%	0.345%
69	19.698	2867	2870	2876	rVB3	267739	405726	9.22%	0.464%
70	19.762	2877	2881	2885	rBV	205619	302777	6.88%	0.346%
71	19.809	2885	2889	2892	rBV3	171648	237343	5.39%	0.272%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG081316\
Data File : BG023707.D
Acq On : 14 Aug 2016 3:18
Operator : UM/SJ
Sample : H4388-05
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : PR002-SS002-0002-01

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	19.850	2893	2896	2899	rBV2	128703	158576	3.60%	0.181%
73	19.944	2907	2912	2914	rBV3	2016816	2934652	66.71%	3.357%
74	19.974	2914	2917	2924	rVB	2966813	4399355	100.00%	5.033%
75	20.038	2924	2928	2934	rVB	519777	722675	16.43%	0.827%
76	20.127	2934	2943	2945	rBV4	176058	456953	10.39%	0.523%
77	20.197	2952	2955	2963	rVB4	202552	380780	8.66%	0.436%
78	20.303	2965	2973	2980	rBV6	405494	1131789	25.73%	1.295%
79	20.461	2990	3000	3008	rVB	594890	1710841	38.89%	1.957%
80	20.532	3009	3012	3013	rBV3	111190	119165	2.71%	0.136%
81	20.561	3014	3017	3021	rVV2	274851	346607	7.88%	0.396%
82	20.620	3023	3027	3032	rVB	626993	852631	19.38%	0.975%
83	20.761	3047	3051	3056	rBV	605090	874168	19.87%	1.000%
84	20.808	3056	3059	3063	rVV	426939	540525	12.29%	0.618%
85	21.249	3130	3134	3140	rVB2	421986	706530	16.06%	0.808%
86	21.437	3158	3166	3169	rBV3	399663	868055	19.73%	0.993%
87	21.478	3170	3173	3178	rVB2	368945	564079	12.82%	0.645%
88	21.536	3179	3183	3187	rBV3	176726	273168	6.21%	0.312%
89	21.871	3232	3240	3245	rBV3	1633743	4306127	97.88%	4.926%
90	21.924	3245	3249	3262	rVB	1187859	2234168	50.78%	2.556%
91	22.159	3285	3289	3300	rVB6	235625	533014	12.12%	0.610%
92	22.641	3368	3371	3379	rVB2	327750	556640	12.65%	0.637%
93	22.717	3381	3384	3392	rVB2	272220	514571	11.70%	0.589%
94	22.935	3416	3421	3425	rBV2	184598	337749	7.68%	0.386%
95	24.198	3629	3636	3641	rBV2	570046	1650974	37.53%	1.889%
96	24.967	3761	3767	3773	rBV	325572	860838	19.57%	0.985%
97	25.049	3774	3781	3788	rVV3	819578	2406038	54.69%	2.752%
98	25.126	3790	3794	3804	rVB2	576544	1443620	32.81%	1.651%
99	25.278	3813	3820	3830	rVB3	616566	1774721	40.34%	2.030%
100	26.453	4013	4020	4028	rVB3	414553	1268999	28.85%	1.452%

Sum of corrected areas: 87417005

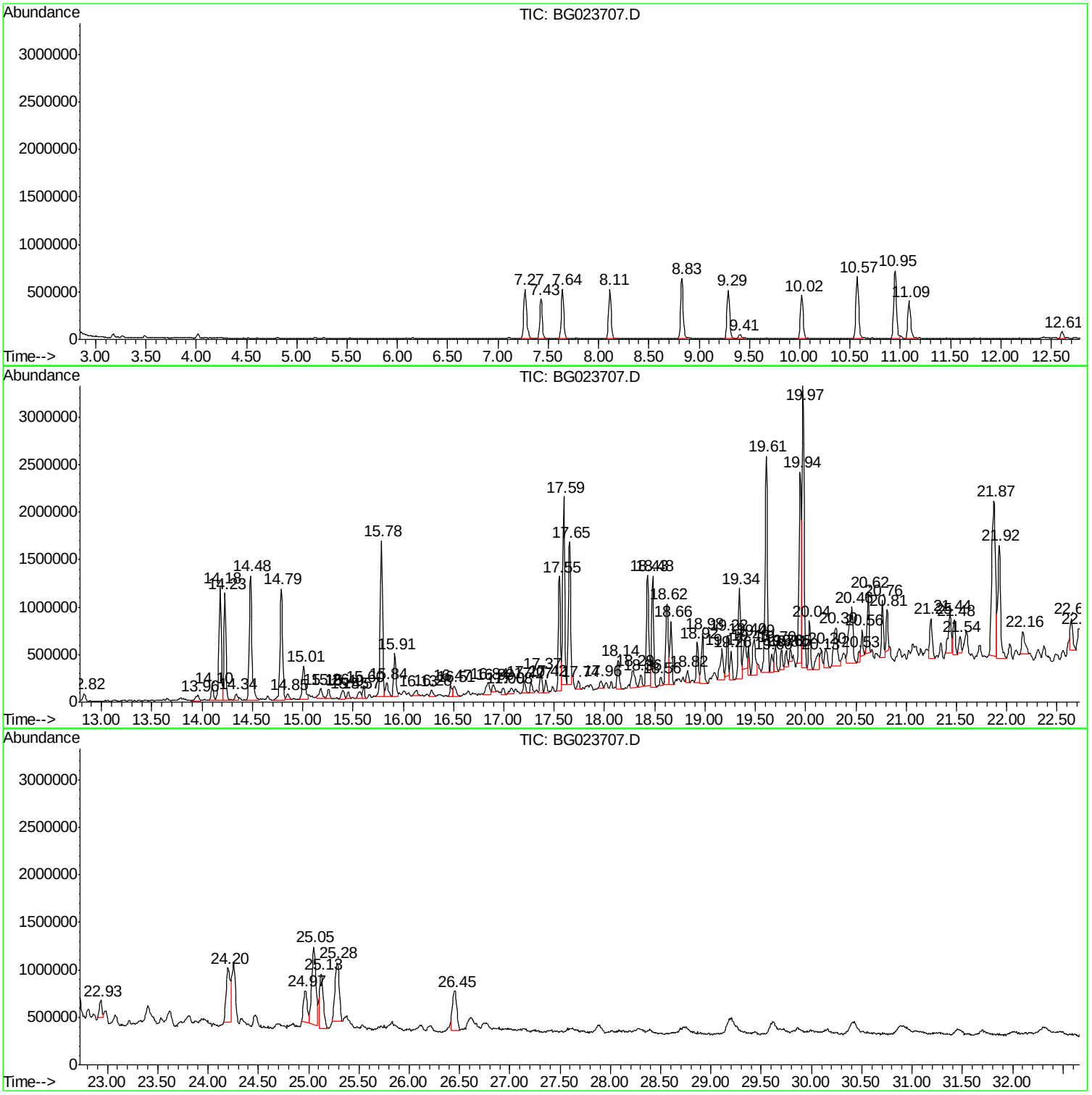
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA G\DATA\BG081316\
Data File : BG023707.D
Acq On : 14 Aug 2016 3:18
Operator : UM/SJ
Sample : H4388-05
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : PR002-SS002-0002-01

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



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG081316\
Data File : BG023707.D
Acq On : 14 Aug 2016 3:18
Operator : UM/SJ
Sample : H4388-05
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : PR002-SS002-0002-01

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

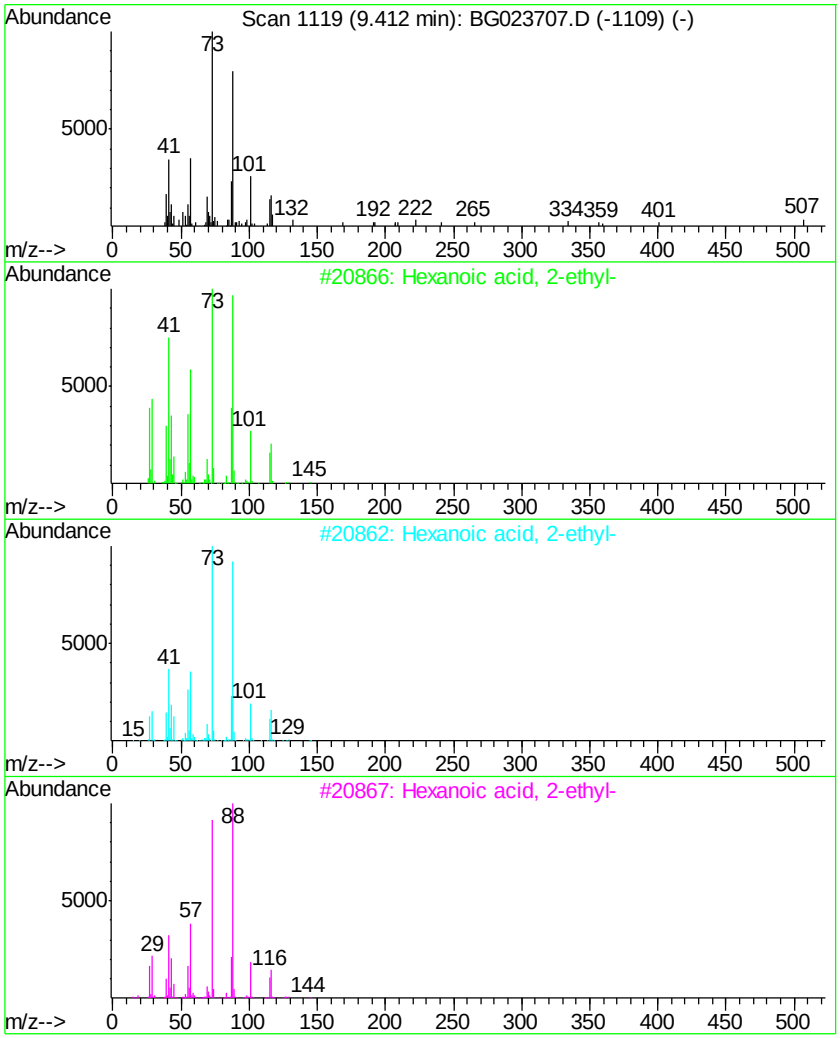
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

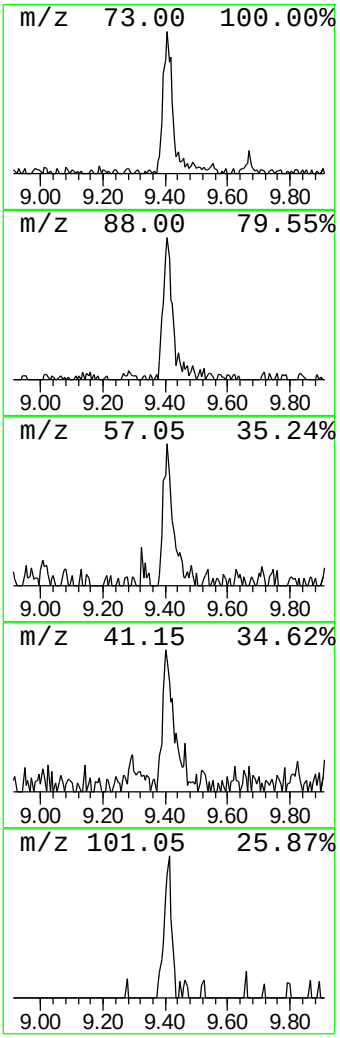
****

Peak Number 1 Hexanoic acid, 2-ethyl- Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.41	2.29 ng/ul	100856	1,4-Dichlorobenzene-d4	8.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanoic acid, 2-ethyl-	144	C8H16O2	000149-57-5	64
2	Hexanoic acid, 2-ethyl-	144	C8H16O2	000149-57-5	53
3	Hexanoic acid, 2-ethyl-	144	C8H16O2	000149-57-5	53
4	Butanoic acid, 2-ethyl-, 1,2,3-p...	386	C21H38O6	056554-54-2	50
5	Heptanoic acid, 2-ethyl-	158	C9H18O2	003274-29-1	47





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG081316\
Data File : BG023707.D
Acq On : 14 Aug 2016 3:18
Operator : UM/SJ
Sample : H4388-05
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : PR002-SS002-0002-01

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

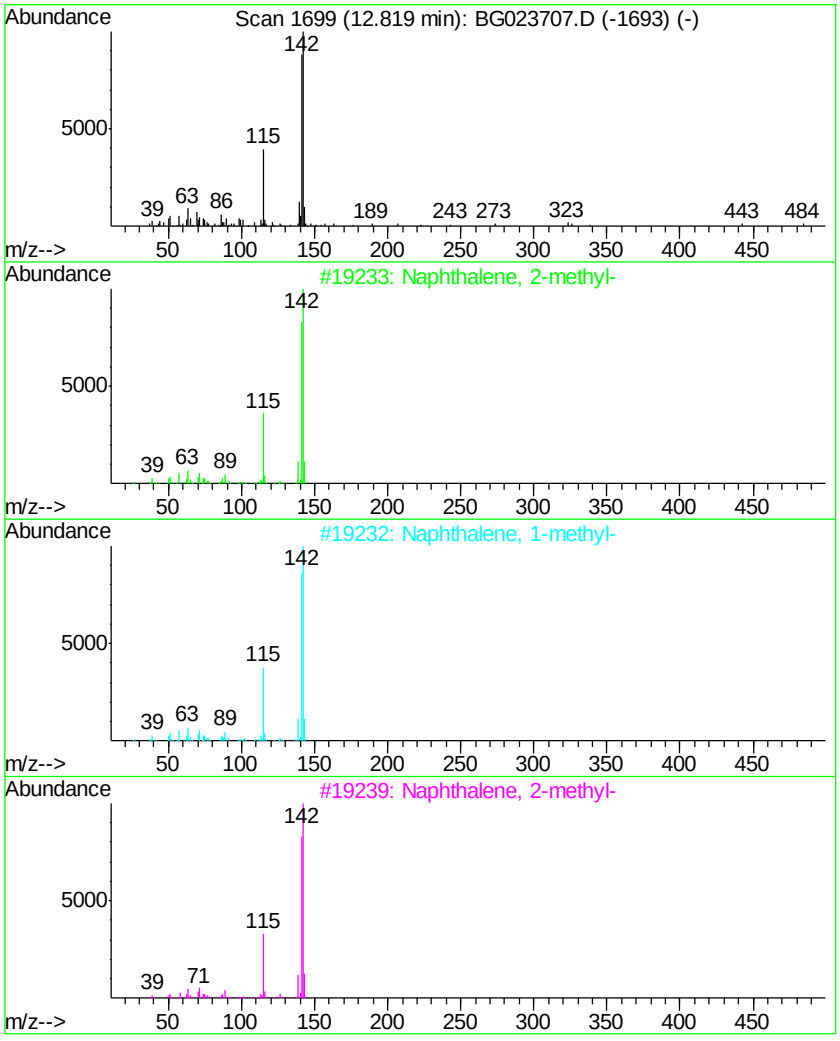
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

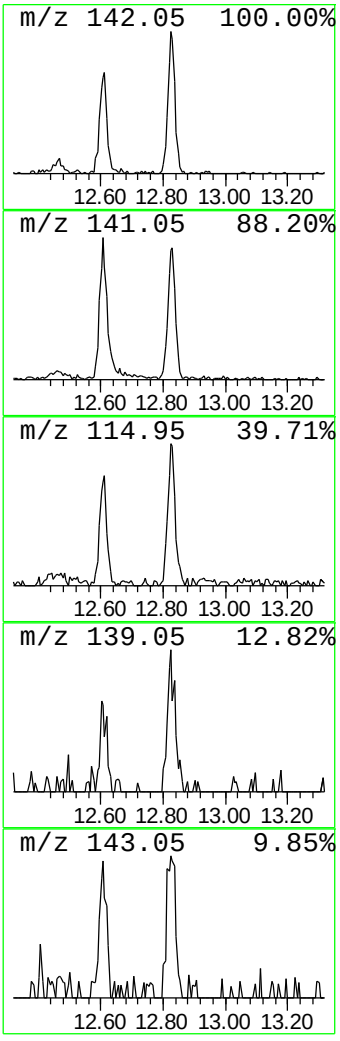
****

Peak Number 2 Naphthalene, 1-methyl- Concentration Rank 39

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.82	2.16 ng/ul	140997	Naphthalene-d8	10.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	95
2	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	95
3	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	91
4	Benzocycloheptatriene	142	C11H10	000264-09-5	91
5	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	91





Data Path : Z:\HPCHEM1\BNA G\DATA\BG081316\
Data File : BG023707.D
Acq On : 14 Aug 2016 3:18
Operator : UM/SJ
Sample : H4388-05
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : PR002-SS002-0002-01

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

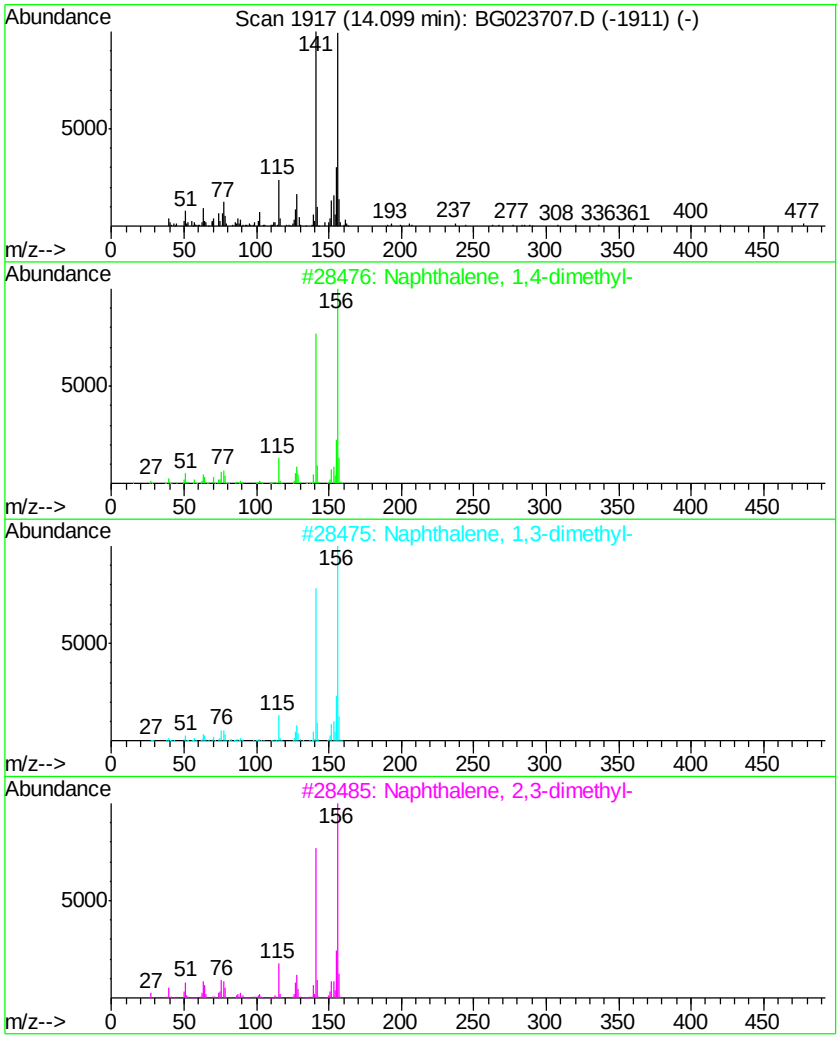
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

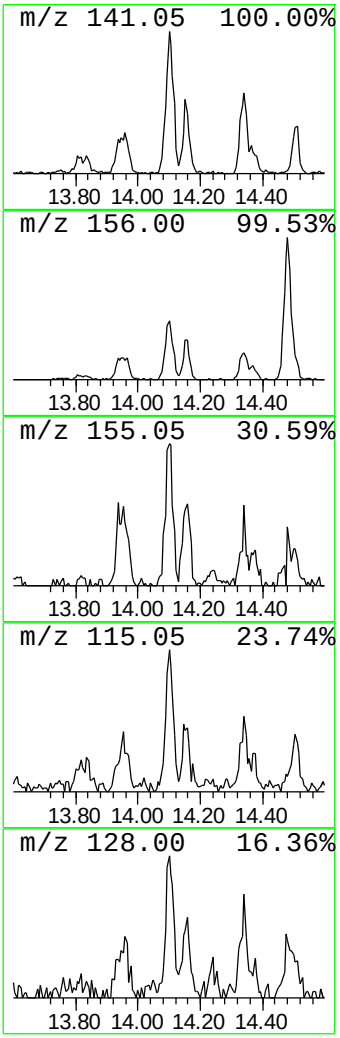
****

Peak Number 3 Naphthalene, 1,4-dimethyl- Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.10	2.38 ng/ul	244997	Acenaphthene-d10	14.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	95
2	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	94
3	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	94
4	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	93
5	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	93





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG081316\
Data File : BG023707.D
Acq On : 14 Aug 2016 3:18
Operator : UM/SJ
Sample : H4388-05
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : PR002-SS002-0002-01

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

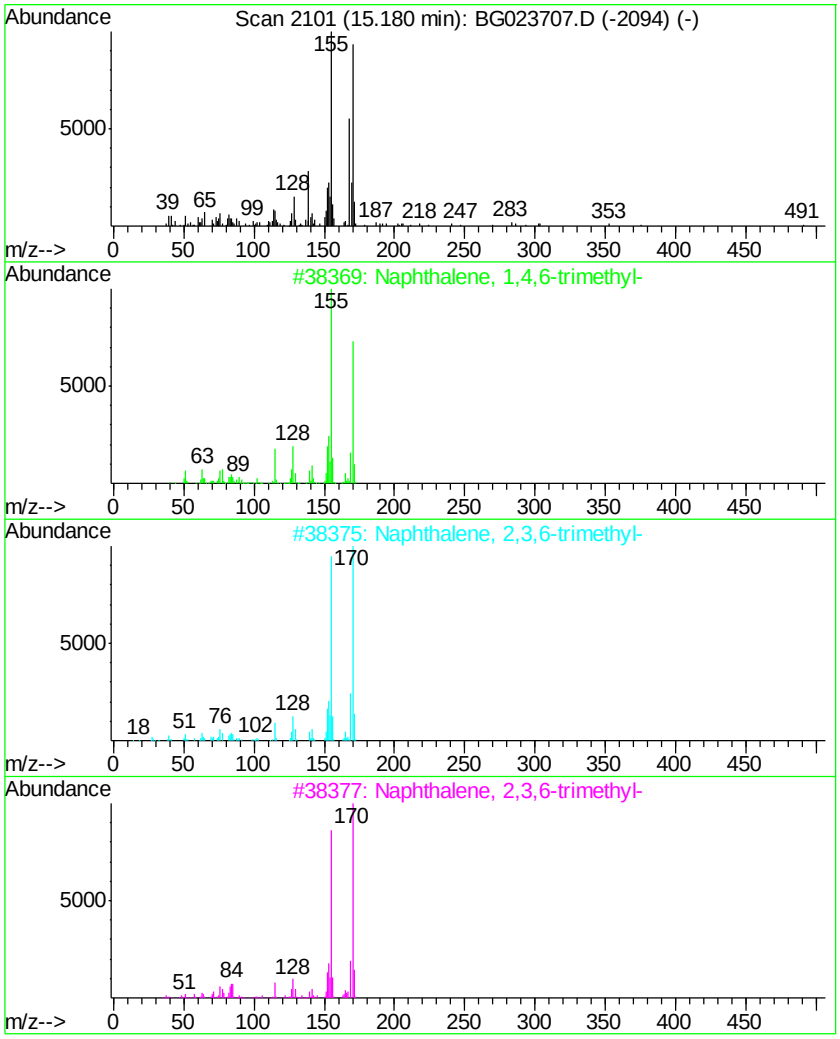
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

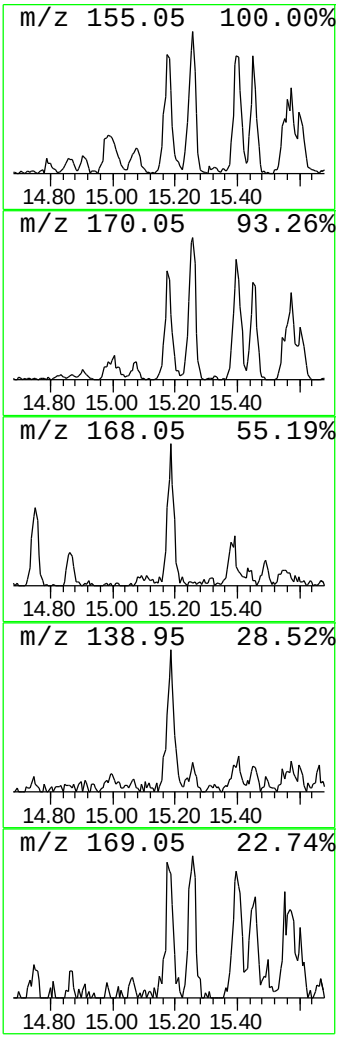
****

Peak Number 4 Naphthalene, 1,4,6-trimethyl- Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.18	2.06 ng/ul	211712	Acenaphthene-d10	14.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	94
2	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	93
3	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	90
4	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	90
5	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	89





Data Path : Z:\HPCHEM1\BNA G\DATA\BG081316\
Data File : BG023707.D
Acq On : 14 Aug 2016 3:18
Operator : UM/SJ
Sample : H4388-05
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : PR002-SS002-0002-01

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

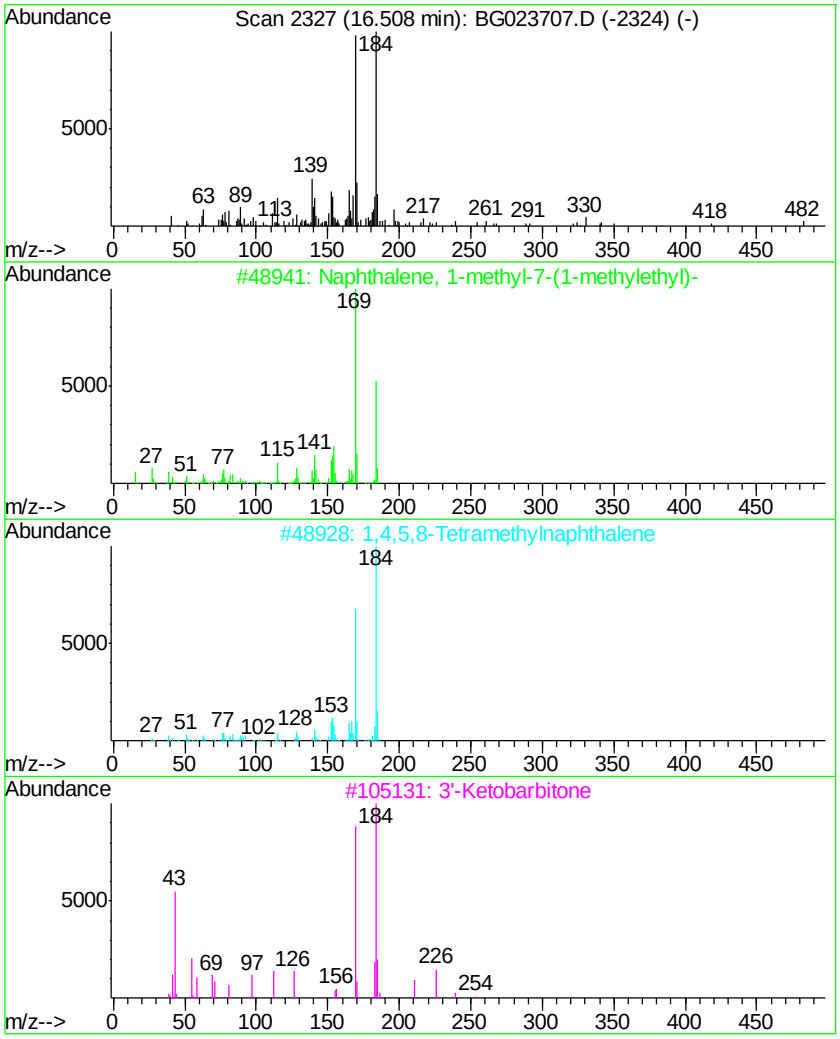
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

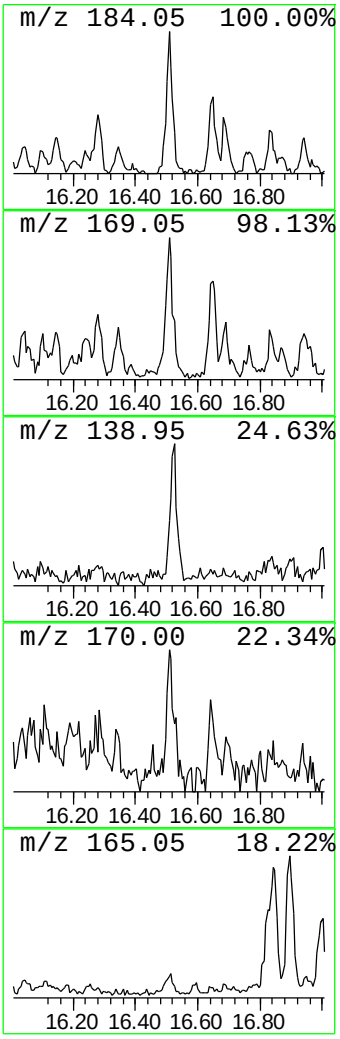
****

Peak Number 5 Naphthalene, 1-methyl-7-(1-... Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.51	2.29 ng/ul	212770	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-methyl-7-(1-methy...	184	C14H16	000490-65-3	81
2	1,4,5,8-Tetramethylnaphthalene	184	C14H16	002717-39-7	74
3	3'-Ketobarbitone	254	C12H18N2O4	1000306-45-6	68
4	Naphthalene, 1,2,3,4-tetramethyl-	184	C14H16	003031-15-0	68
5	Naphthalene, 1-methyl-7-(1-methy...	184	C14H16	000490-65-3	64





Library Search Compound Report

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Acq On : 14 Aug 2016 3:18
Operator : UM/SJ
Sample : H4388-05
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : PR002-SS002-0002-01

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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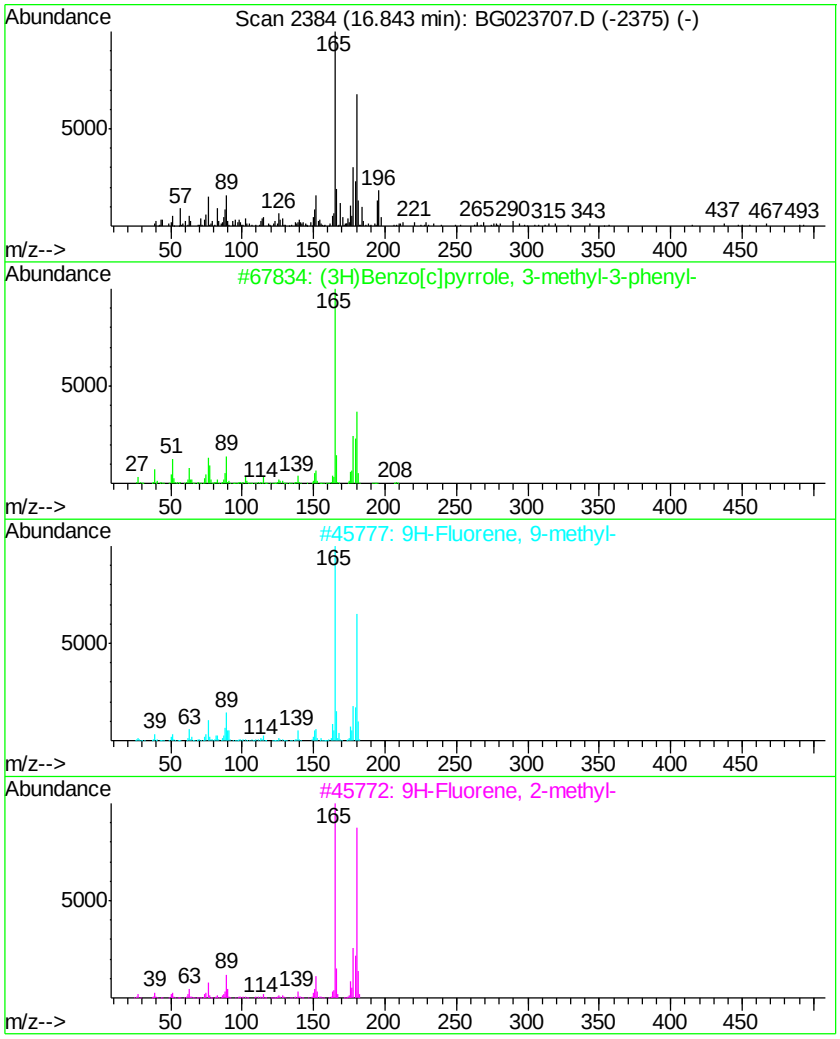
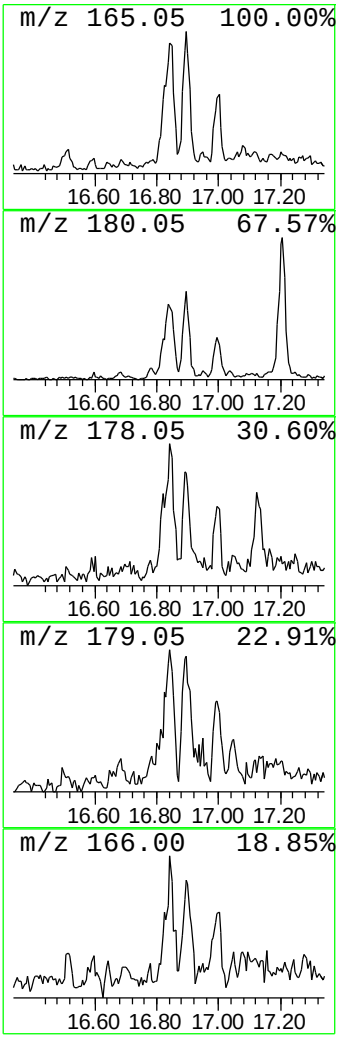
Peak Number 6 (3H)Benzo[c]pyrrole, 3-meth... Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.84	3.53 ng/ul	328616	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(3H)Benzo[c]pyrrole, 3-methyl-3-...	208	C14H12N2	059341-20-7	86
2	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	86
3	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	86
4	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	86
5	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	86





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Instrument : BNA_G
ClientSampleId : PR002-SS002-0002-01

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Quant Title : SVOA CALIBRATION

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

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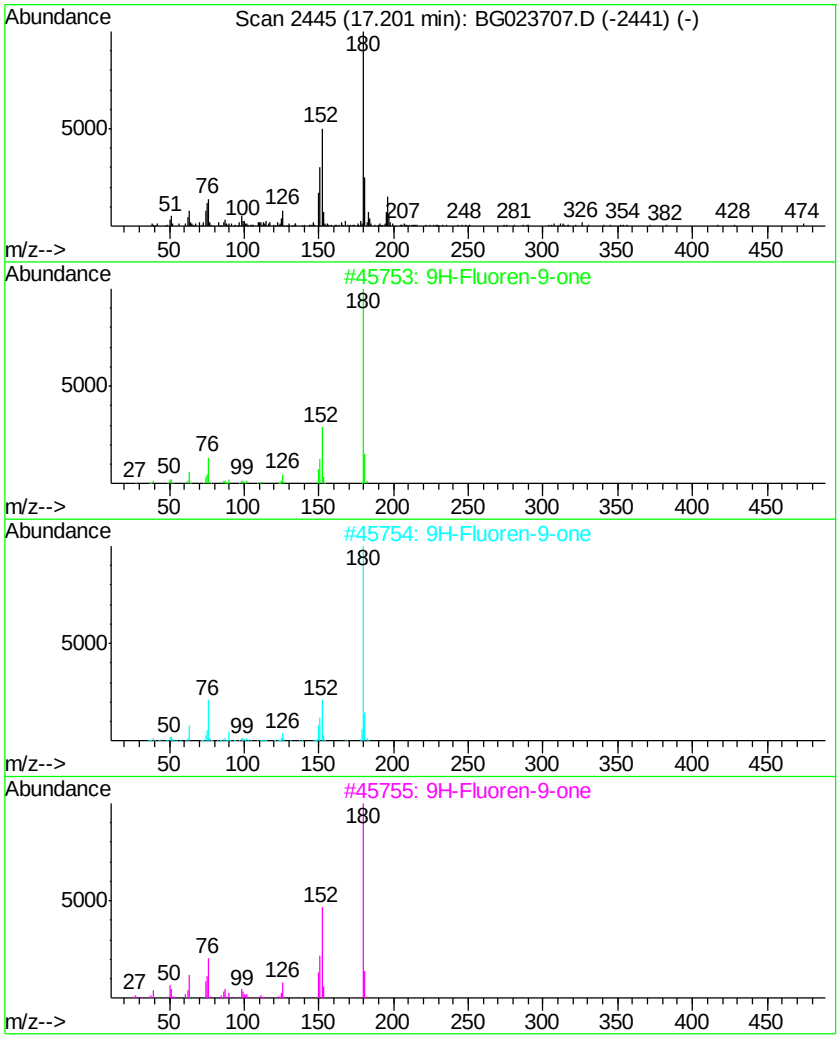
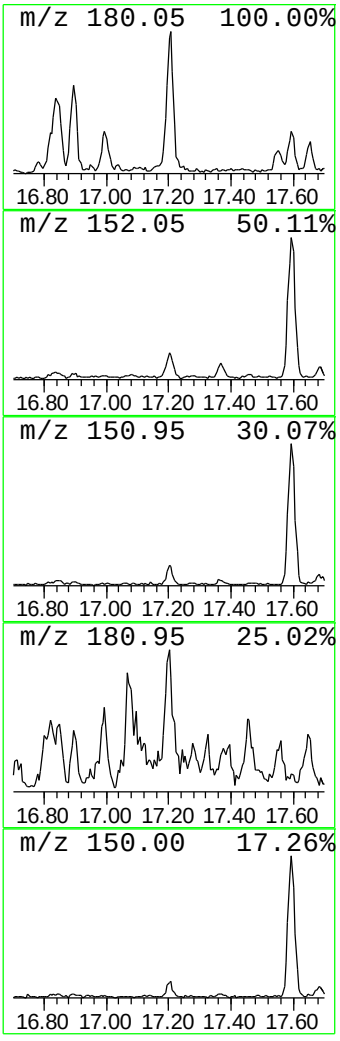
Peak Number 7 9H-Fluoren-9-one Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.20	2.28 ng/ul	212160	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	87
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	83
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	83
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	72
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	64





Library Search Compound Report

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ClientSampleId : PR002-SS002-0002-01

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Quant Title : SVOA CALIBRATION

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

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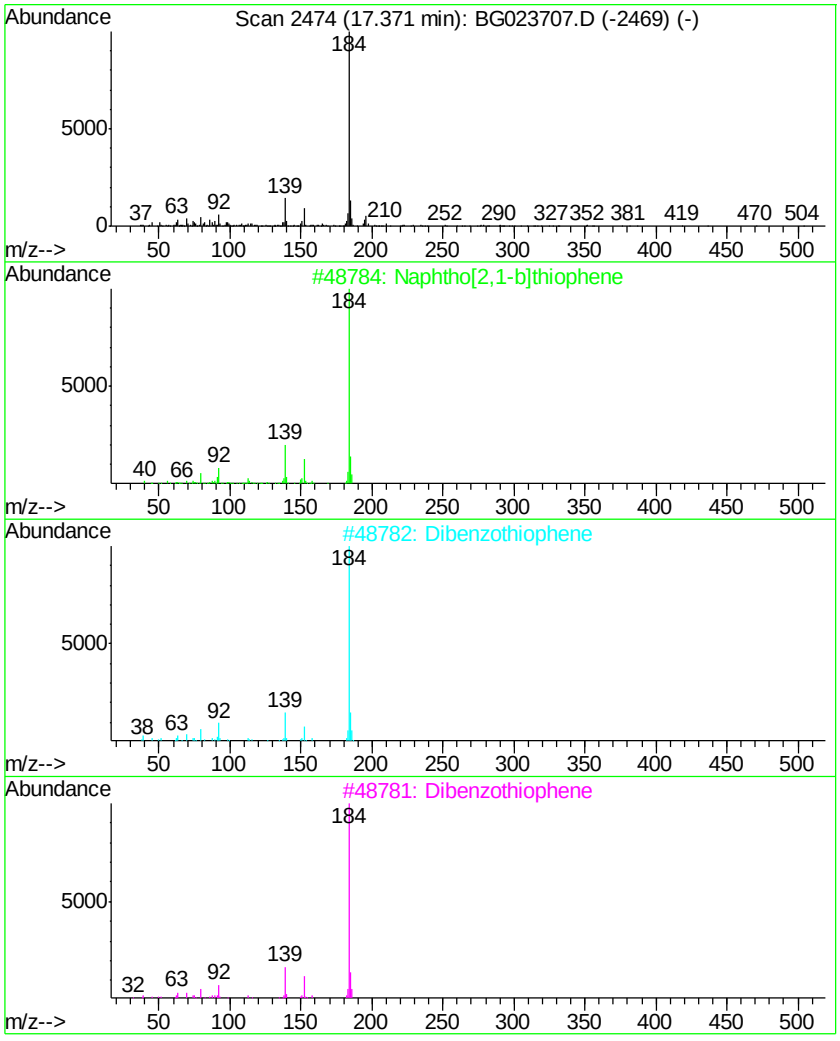
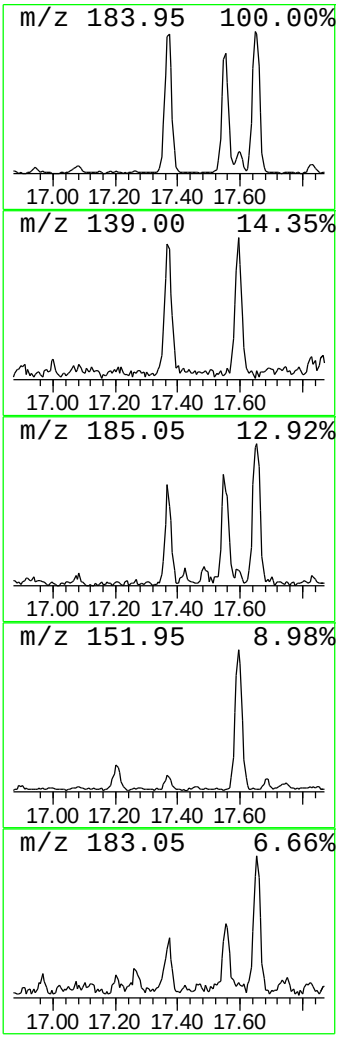
Peak Number 8 Naphtho[2,1-b]thiophene Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.37	3.19 ng/ul	296886	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	94
2	Dibenzothiophene	184	C12H8S	000132-65-0	94
3	Dibenzothiophene	184	C12H8S	000132-65-0	93
4	Dibenzothiophene	184	C12H8S	000132-65-0	91
5	Dibenzothiophene	184	C12H8S	000132-65-0	90





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Instrument : BNA_G
ClientSampleId : PR002-SS002-0002-01

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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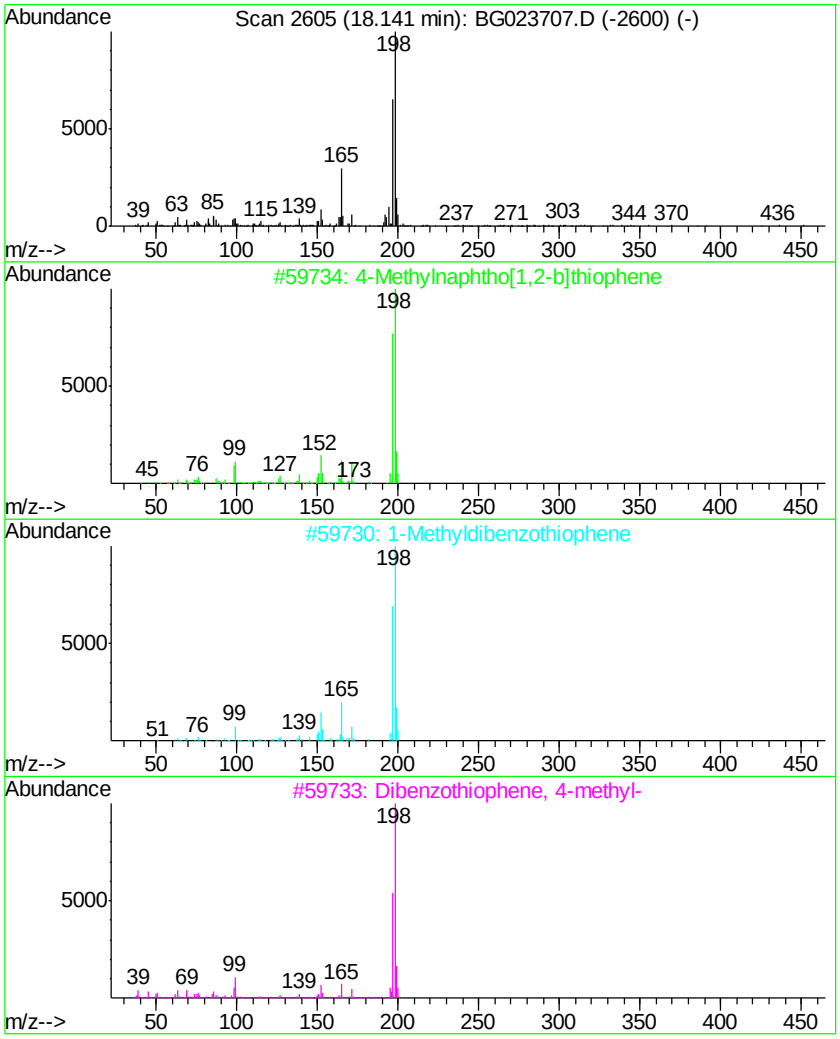
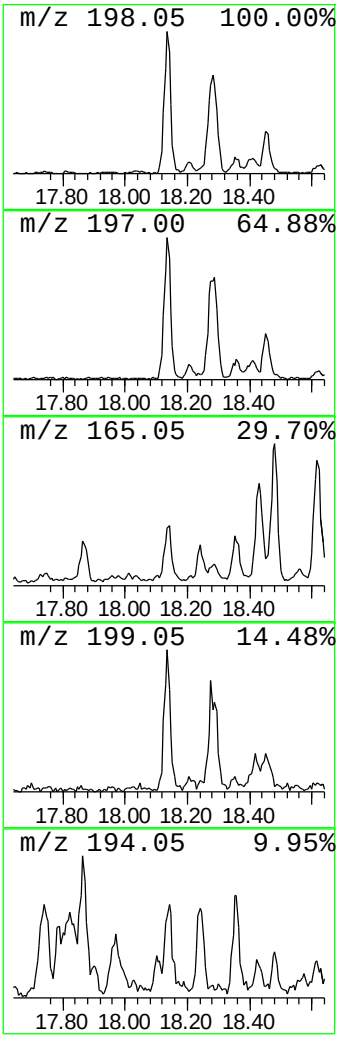
Peak Number 9 4-Methylnaphtho[1,2-b]thiop... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.14	5.13 ng/ul	477137	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	91
2	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	91
3	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	87
4	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	81
5	Benzene, 1,1'-(1-fluoro-1,2-ethe...	198	C14H11F	000671-19-2	72





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ClientSampleId : PR002-SS002-0002-01

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Quant Title : SVOA CALIBRATION

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

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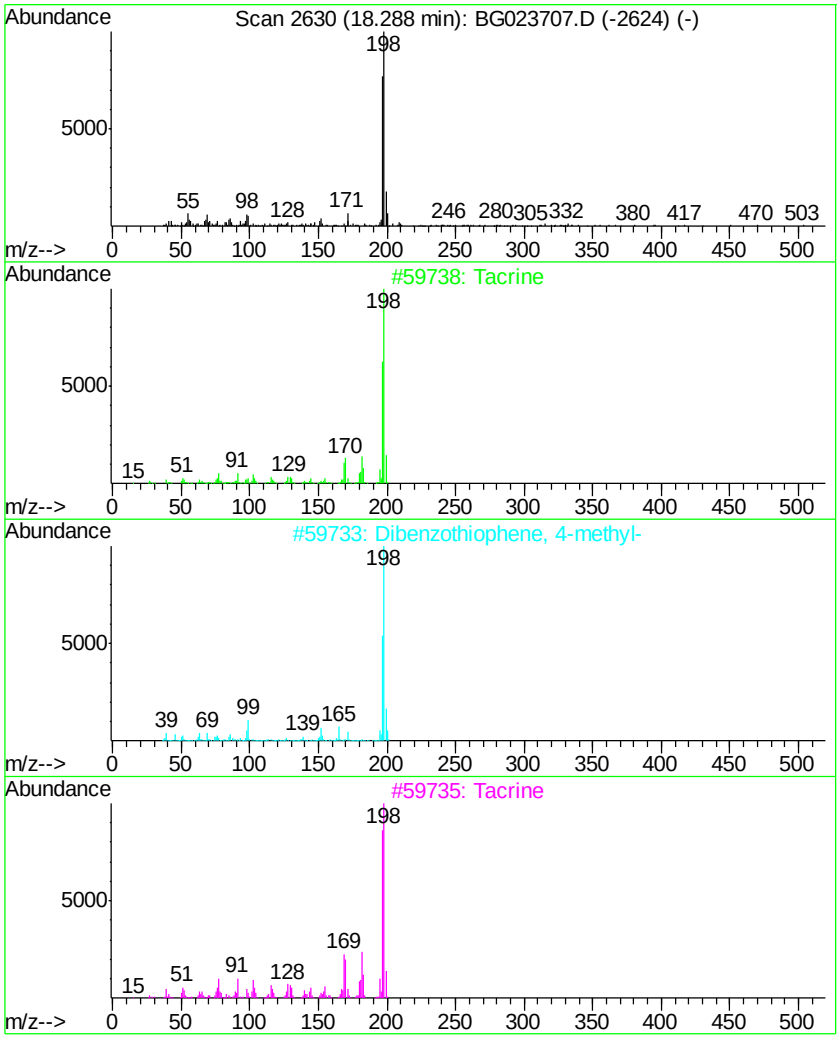
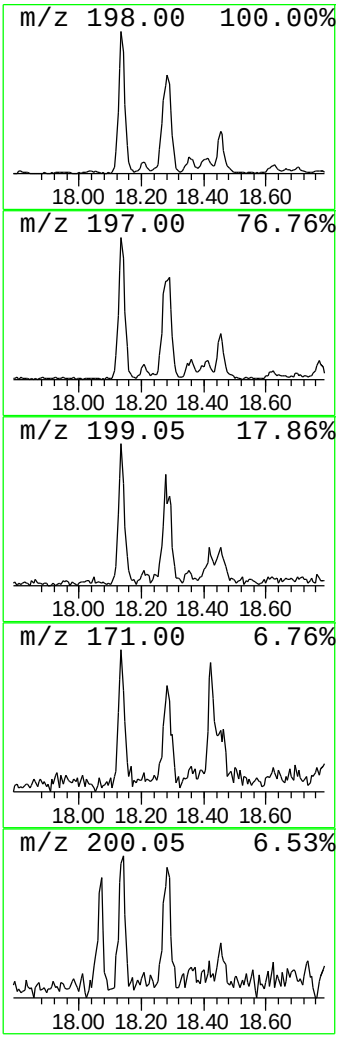
Peak Number 10 Tacrine Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.29	4.76 ng/ul	442873	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tacrine	198	C13H14N2	000321-64-2	86
2	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	86
3	Tacrine	198	C13H14N2	000321-64-2	78
4	Tacrine	198	C13H14N2	000321-64-2	78
5	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	78





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Sample : H4388-05
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Quant Title : SVOA CALIBRATION

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

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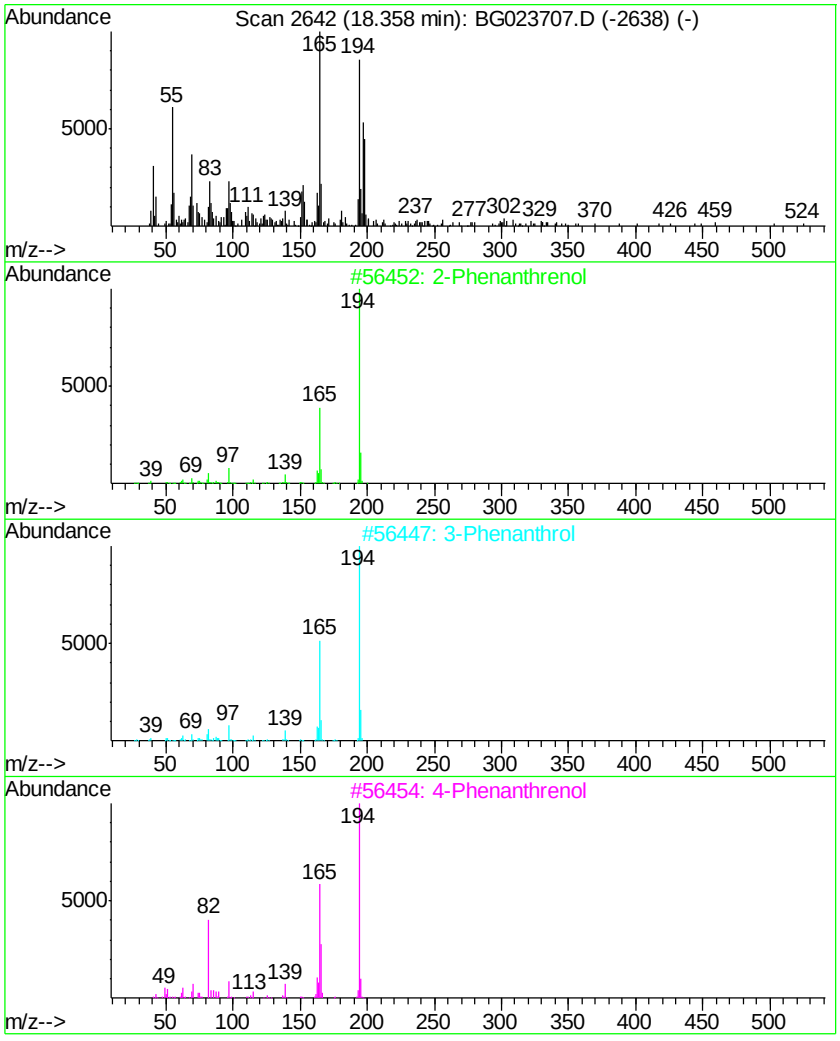
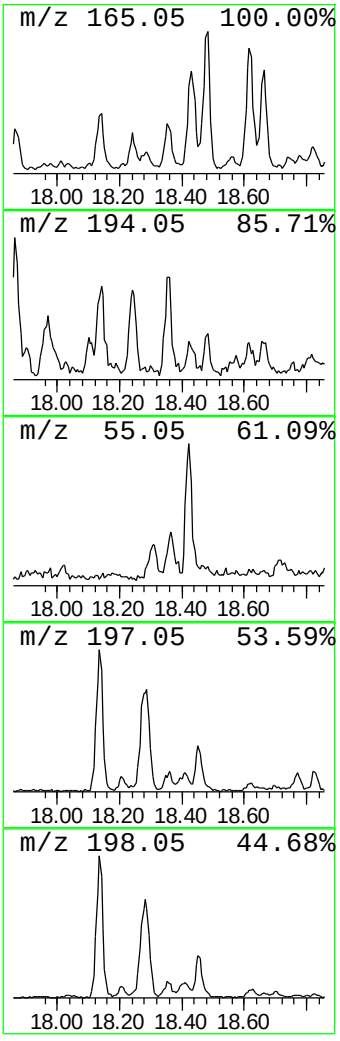
Peak Number 11 2-Phenanthrenol Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.36	2.20 ng/ul	204354	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenanthrenol	194	C14H10O	000605-55-0	50
2	3-Phenanthrol	194	C14H10O	000605-87-8	45
3	4-Phenanthrenol	194	C14H10O	007651-86-7	43
4	9-Phenanthrenol	194	C14H10O	000484-17-3	38
5	1-Phenanthrenol	194	C14H10O	002433-56-9	38





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Misc :
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Instrument : BNA_G
ClientSampleId : PR002-SS002-0002-01

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Quant Title : SVOA CALIBRATION

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

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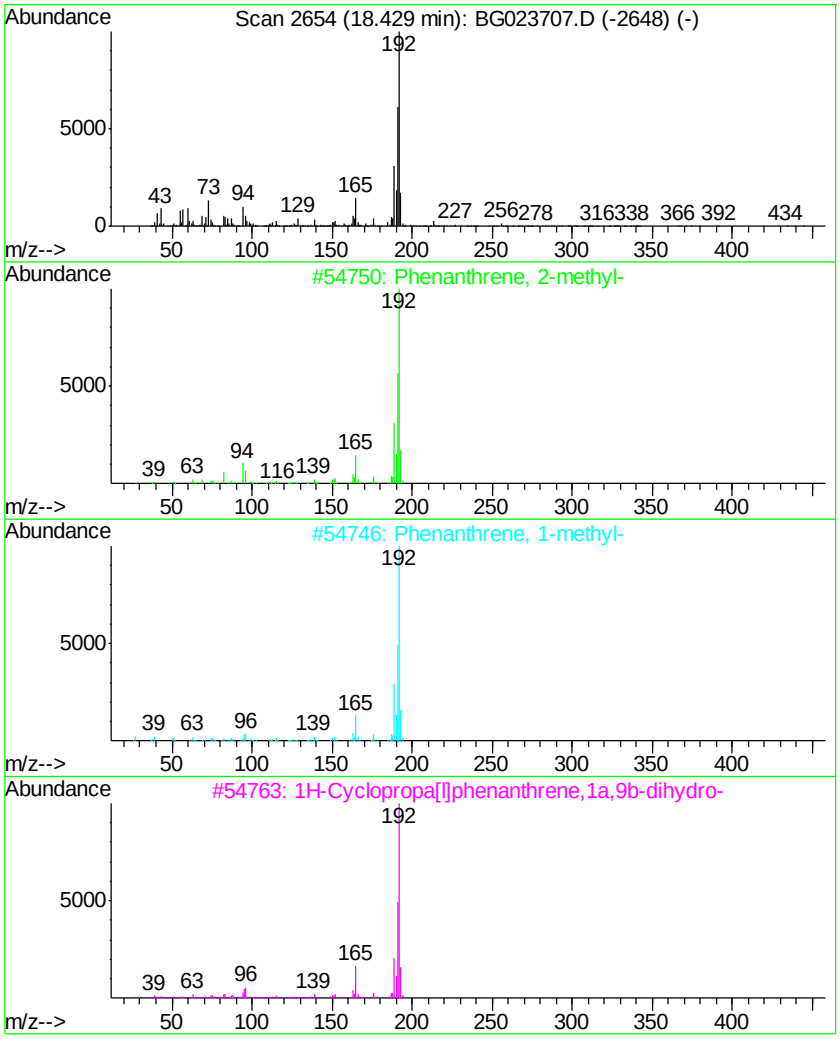
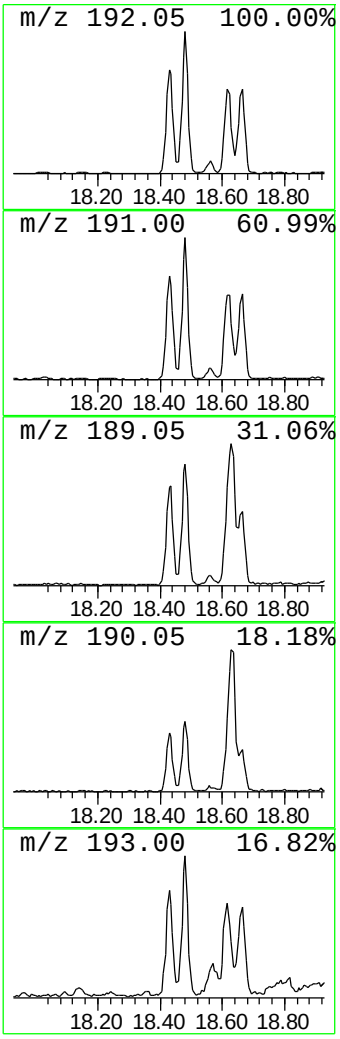
Peak Number 12 Phenanthrene, 2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.43	20.92 ng/ul	1946360	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95





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Sample : H4388-05
Misc :
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Instrument : BNA_G
ClientSampleId : PR002-SS002-0002-01

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Quant Title : SVOA CALIBRATION

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

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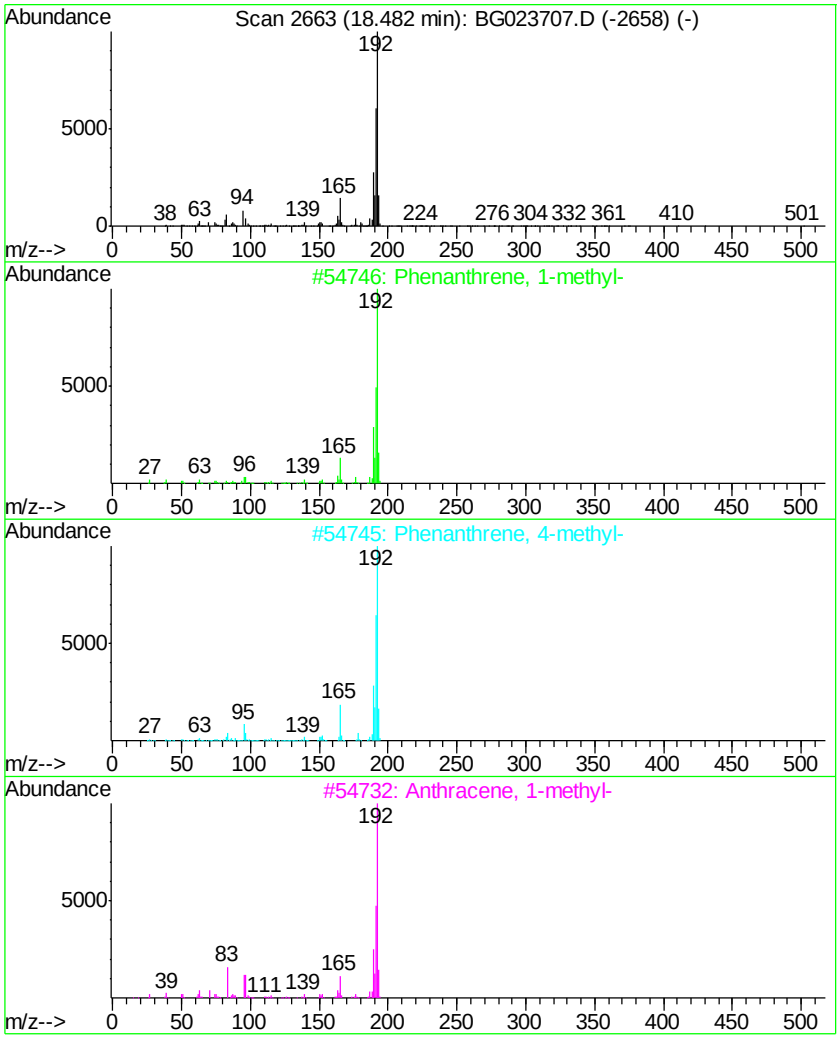
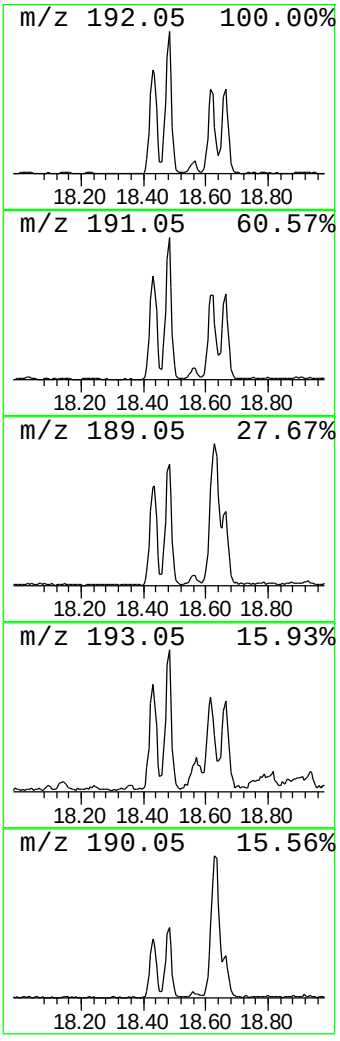
Peak Number 13 Phenanthrene, 1-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.48	18.35 ng/ul	1706730	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94





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Quant Title : SVOA CALIBRATION

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

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Peak Number 16 1,2,4,8-Tetramethylbicyclo[... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.92	6.90 ng/ul	642195	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	86
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	72
3	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	64
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	60
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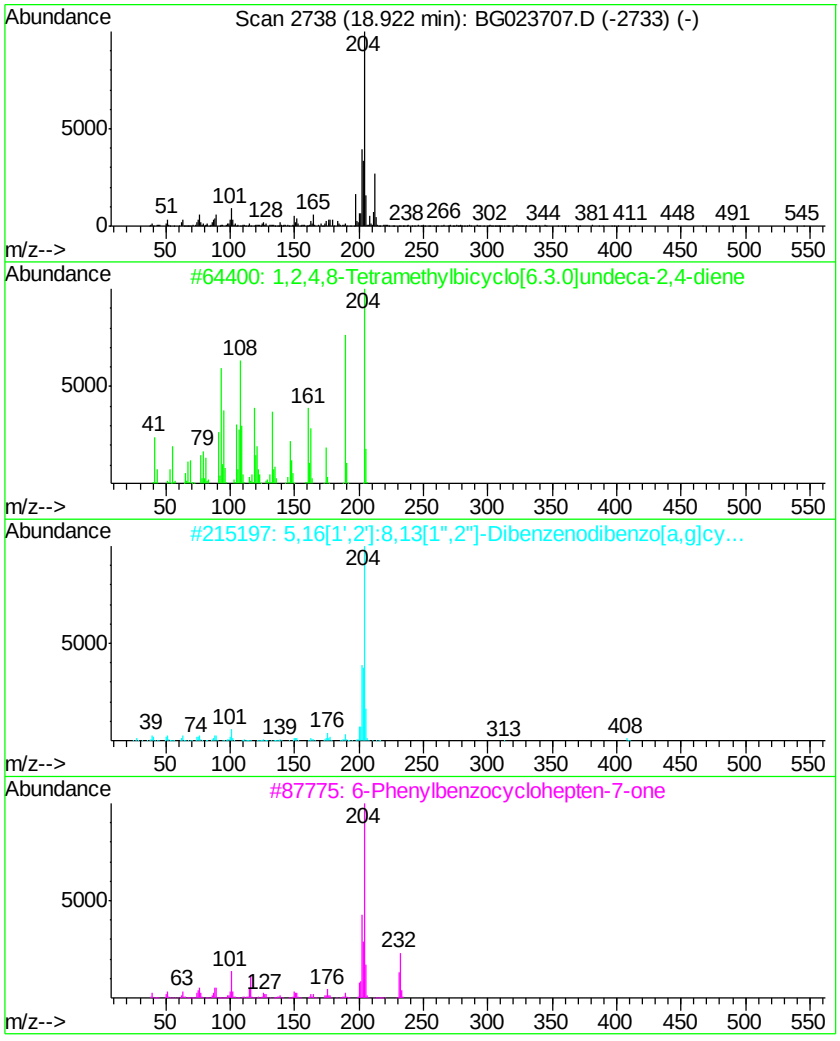

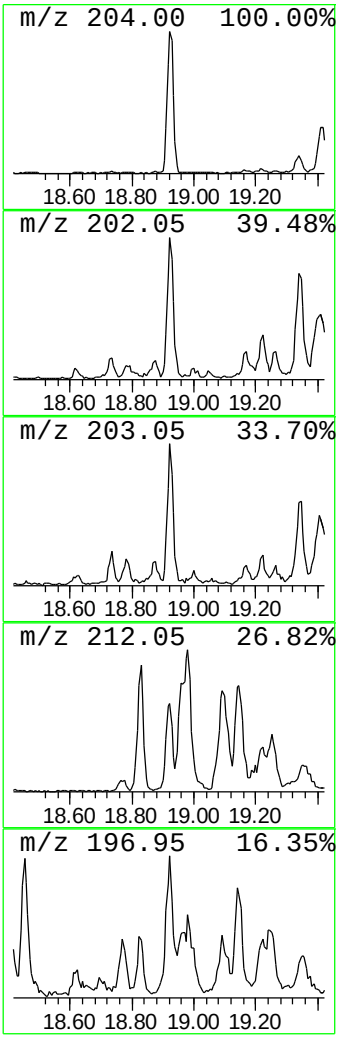

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Quant Title : SVOA CALIBRATION

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

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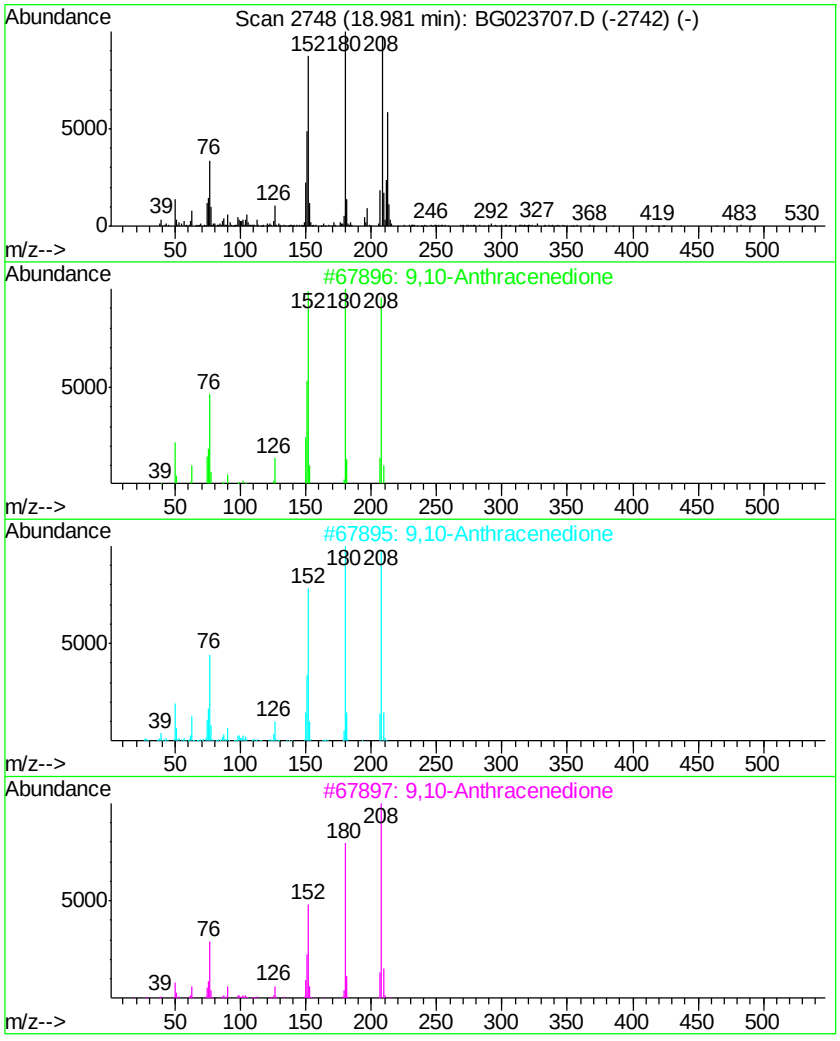
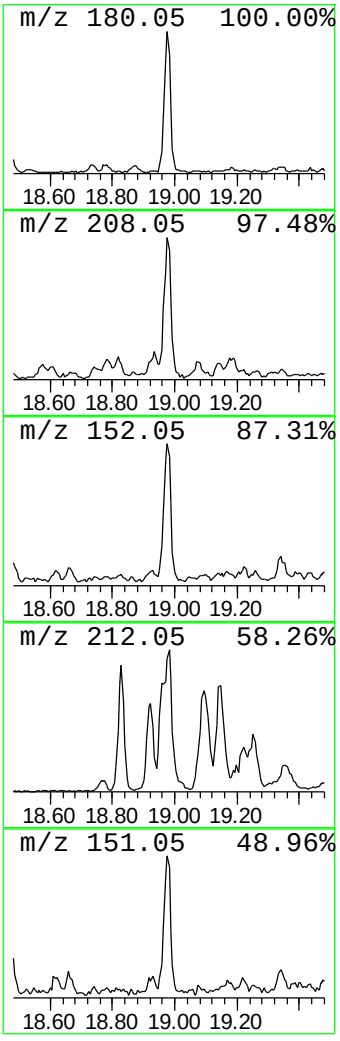
Peak Number 17 9,10-Anthracenedione Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.98	10.30 ng/ul	958172	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	95
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	93
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	60
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	53





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ClientSampleId : PR002-SS002-0002-01

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Quant Title : SVOA CALIBRATION

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

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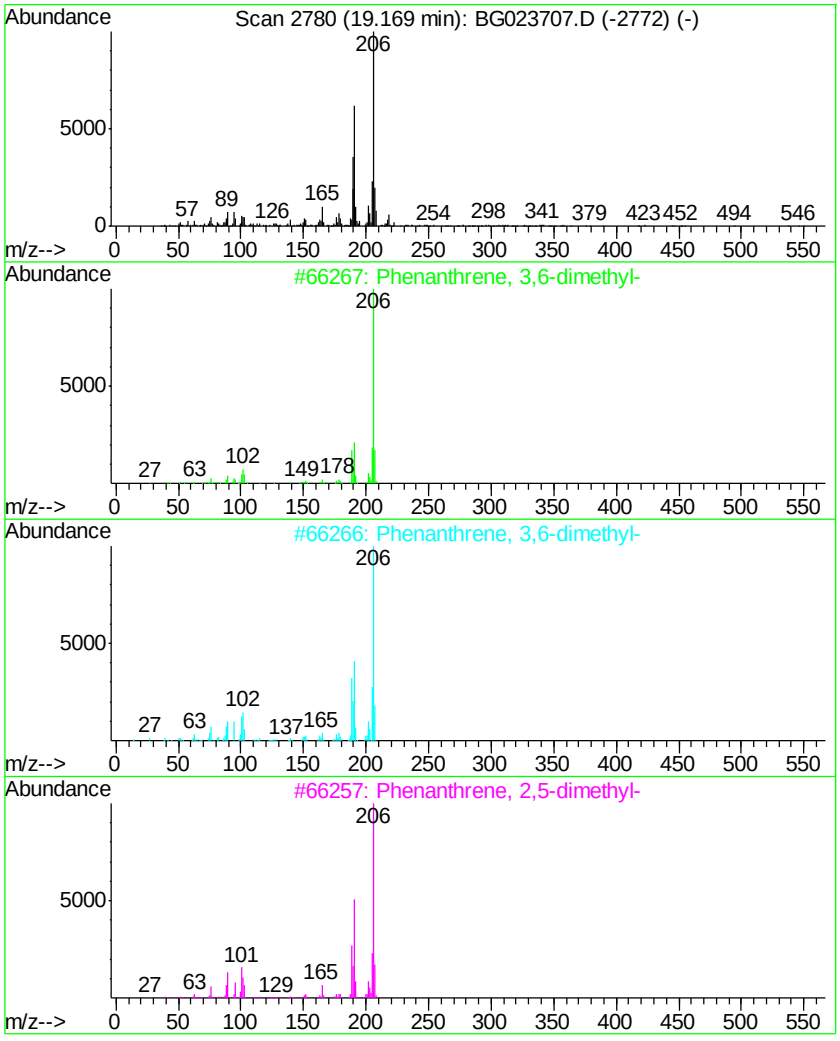
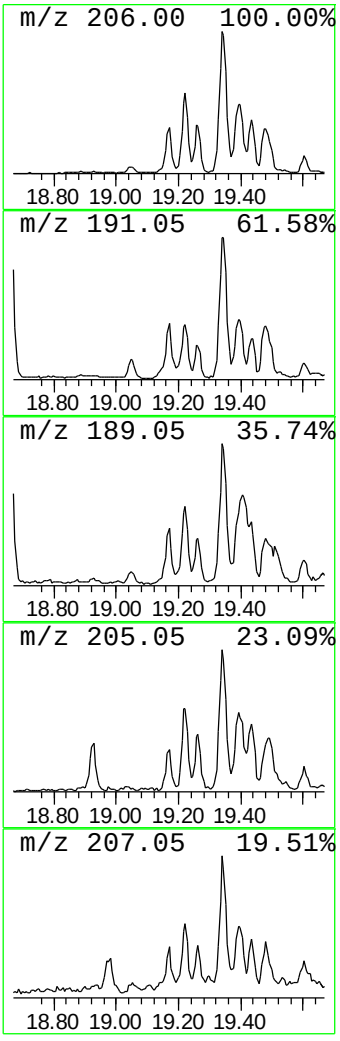
Peak Number 18 Phenanthrene, 3,6-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.17	6.99 ng/ul	650084	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	90
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90





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Sample : H4388-05
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ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_G
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TIC Integration Parameters: LSCINT.P

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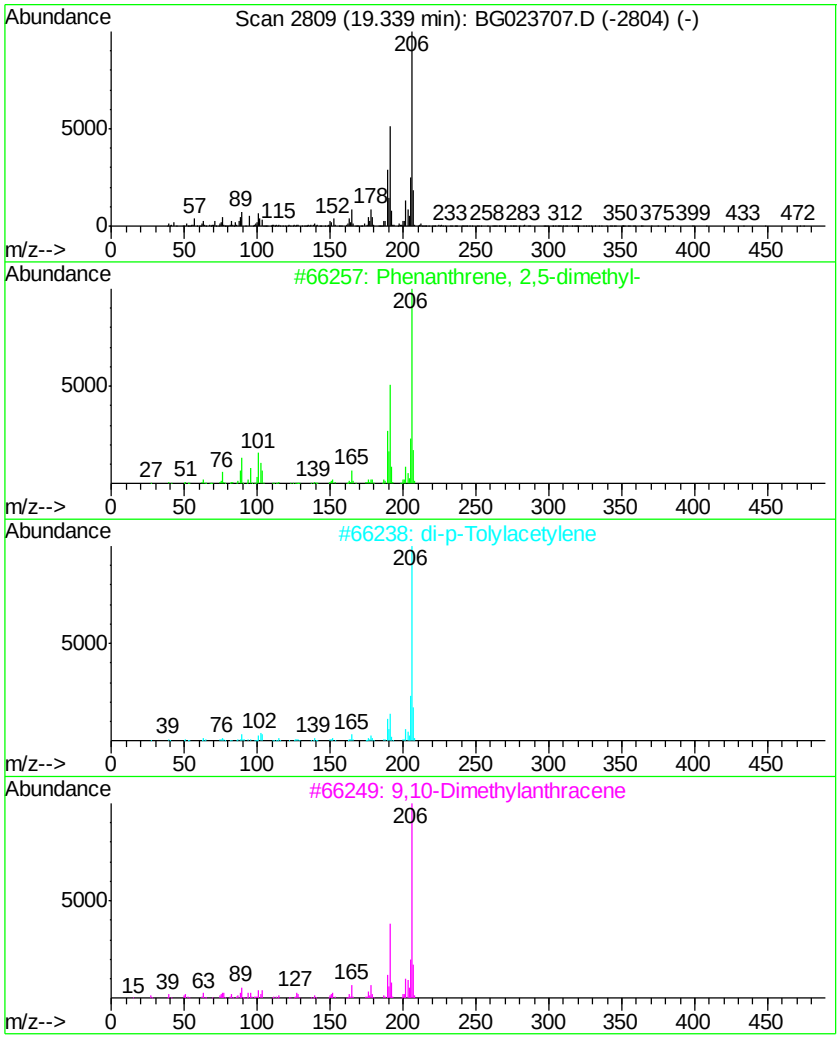
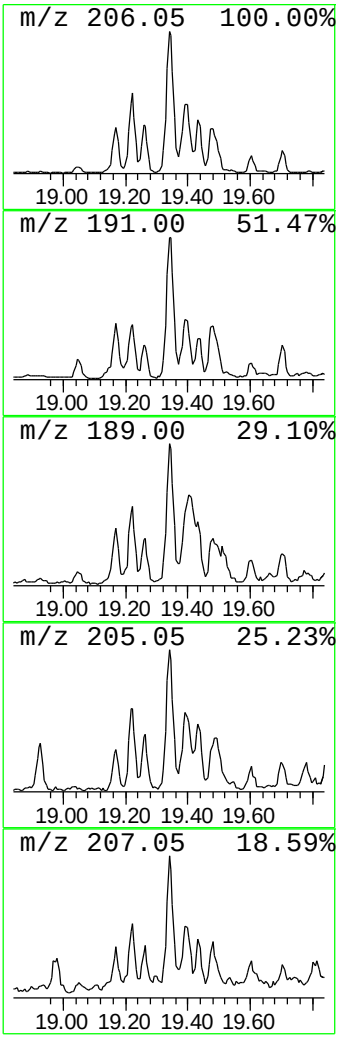
Peak Number 21 Phenanthrene, 2,5-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.34	16.96 ng/ul	1577910	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG081316\
Data File : BG023707.D
Acq On : 14 Aug 2016 3:18
Operator : UM/SJ
Sample : H4388-05
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : PR002-SS002-0002-01

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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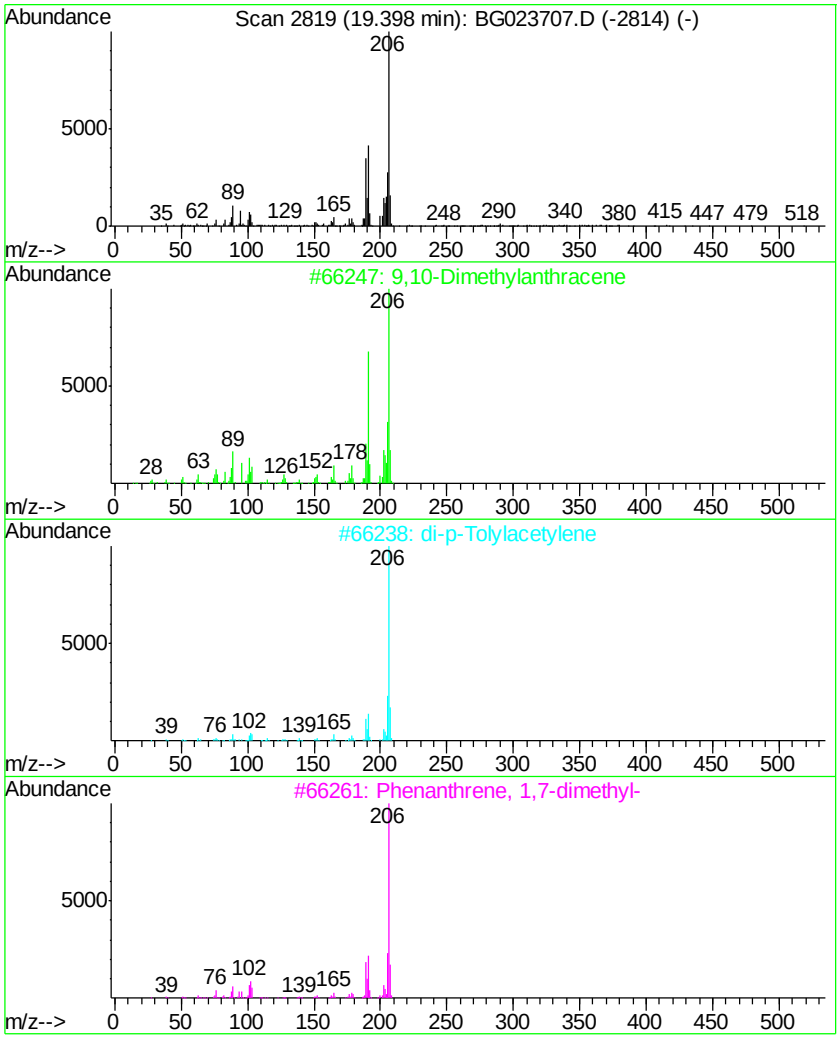
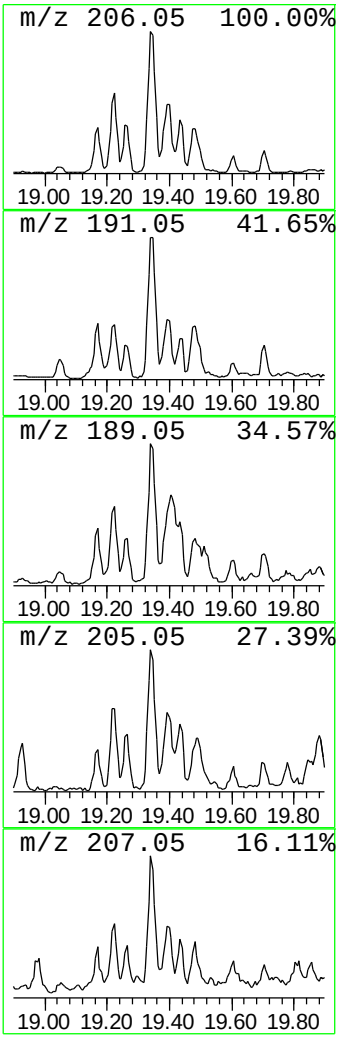
Peak Number 22 9,10-Dimethylanthracene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.40	6.71 ng/ul	624092	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	94
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	86
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	83





Library Search Compound Report

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Data File : BG023707.D
Acq On : 14 Aug 2016 3:18
Operator : UM/SJ
Sample : H4388-05
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : PR002-SS002-0002-01

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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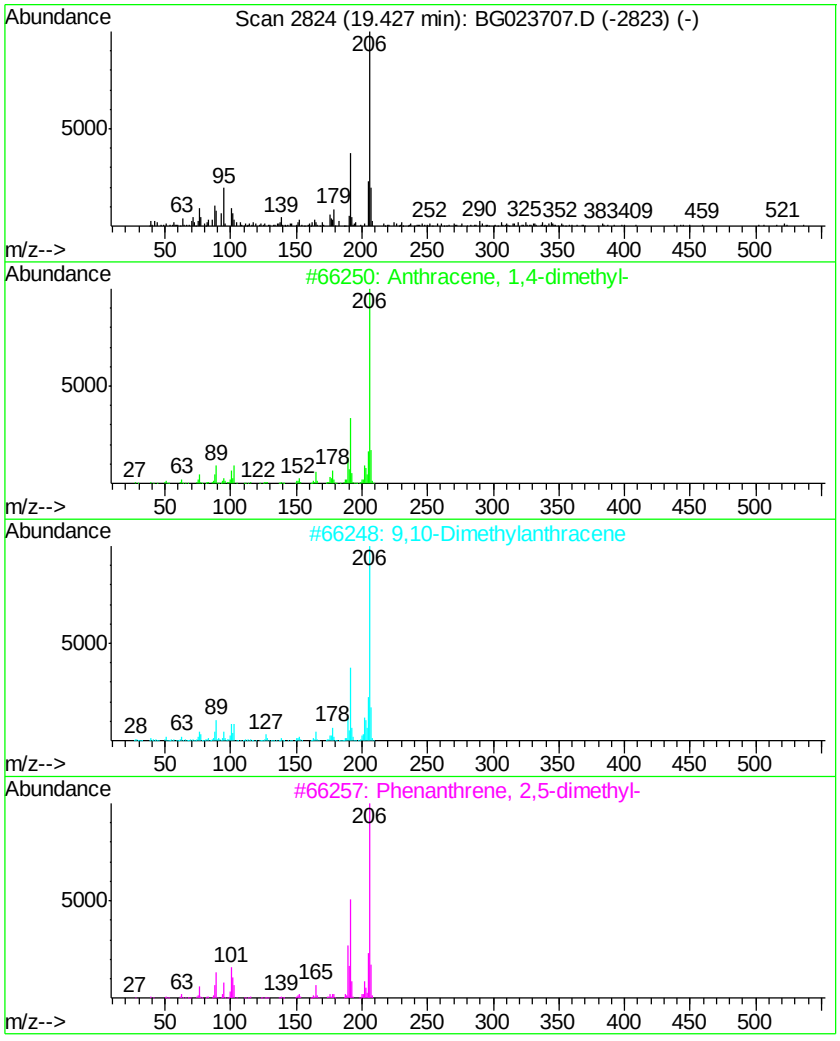
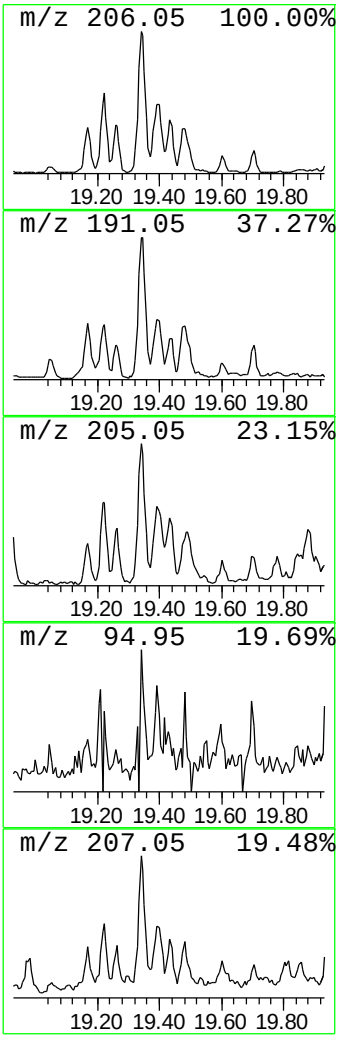
Peak Number 23 Anthracene, 1,4-dimethyl- Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.43	3.62 ng/ul	336567	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	87
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	87
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	86
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	74
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	74





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Sample : H4388-05
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : PR002-SS002-0002-01

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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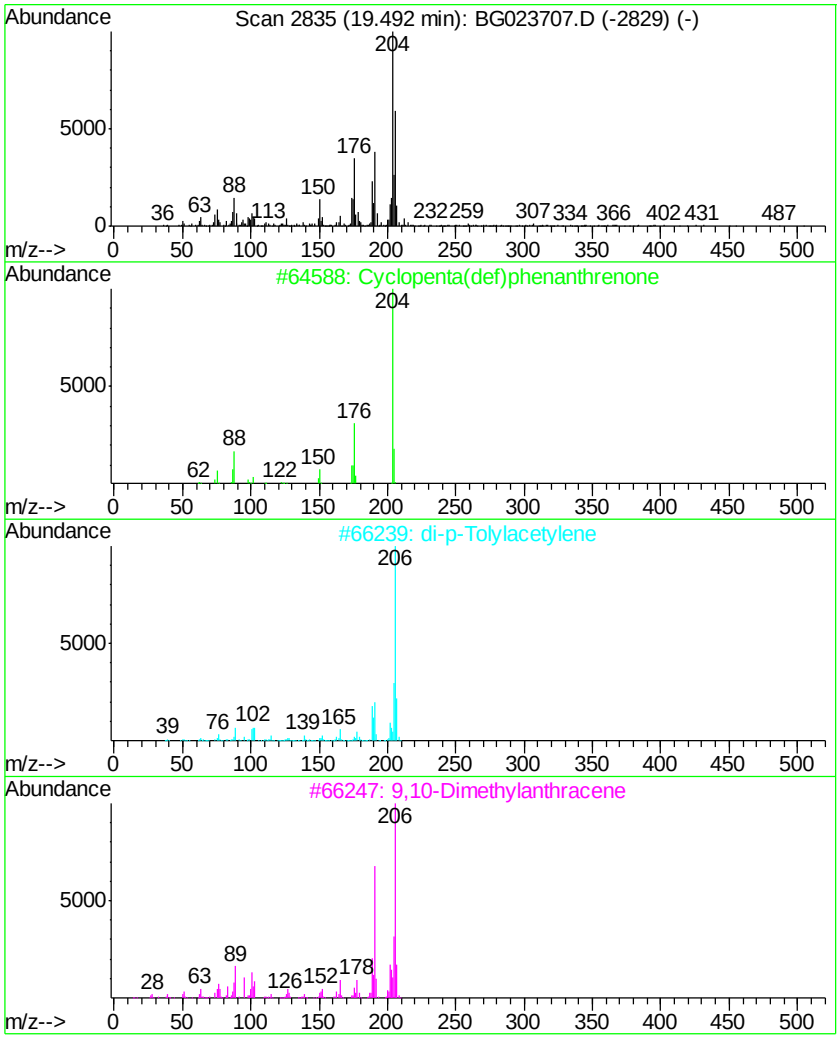
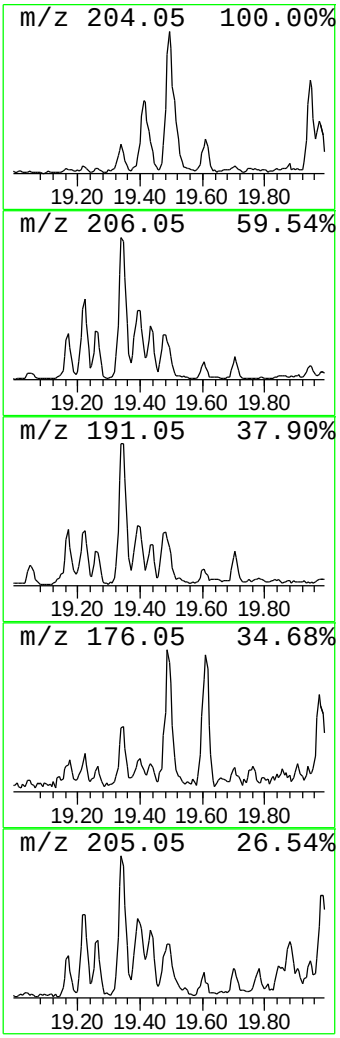
Peak Number 24 Cyclopenta(def)phenanthrenone Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.49	8.94 ng/ul	831619	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	89
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	60
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	50
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	46
5	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	43





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Sample : H4388-05
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : PR002-SS002-0002-01

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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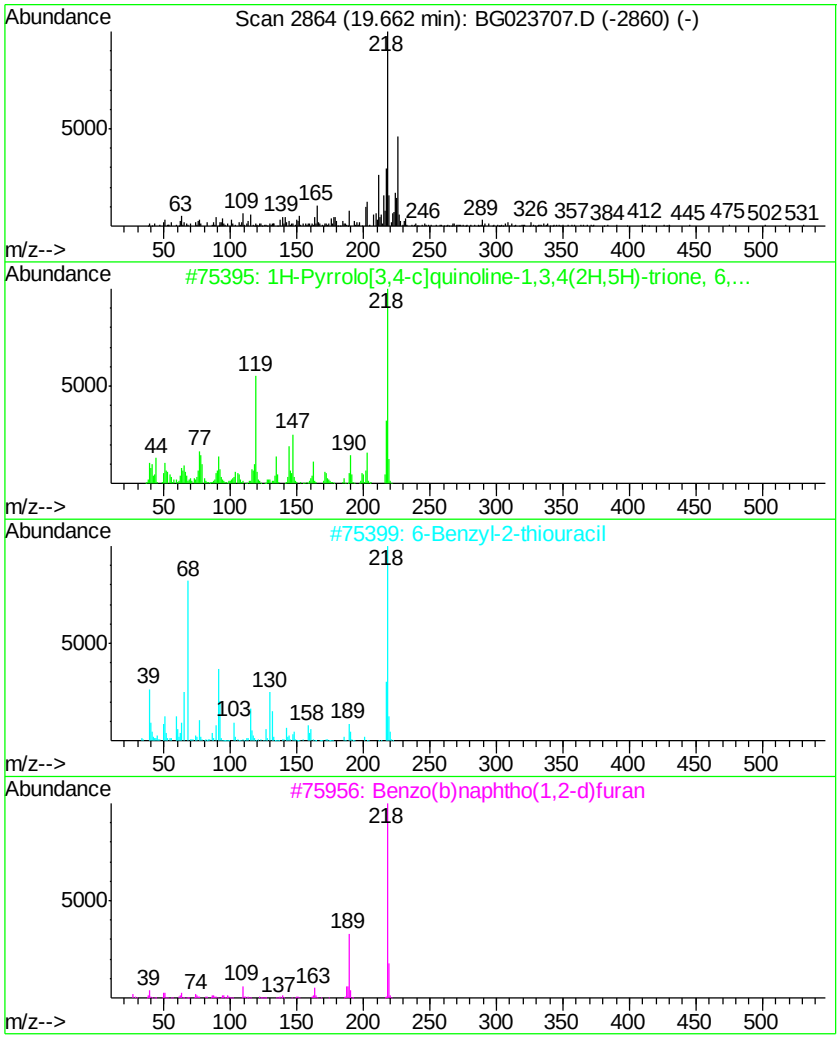
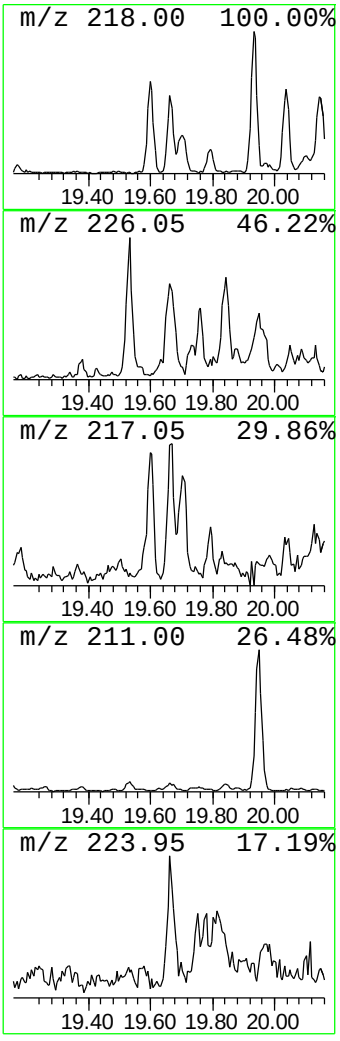
Peak Number 25 1H-Pyrrolo[3,4-c]quinoline-... Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.66	3.24 ng/ul	301676	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Pyrrolo[3,4-c]quinoline-1,3,4...	218	C11H10N2O3	181021-85-2	43
2	6-Benzyl-2-thiouracil	218	C11H10N2OS	006336-50-1	43
3	Benzo(b)naphtho(1,2-d)furan	218	C16H10O	000205-39-0	38
4	1-Hydroxypyrene	218	C16H10O	005315-79-7	38
5	Phenol, 4,4'-thiobis-	218	C12H10O2S	002664-63-3	37





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Operator : UM/SJ
Sample : H4388-05
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : PR002-SS002-0002-01

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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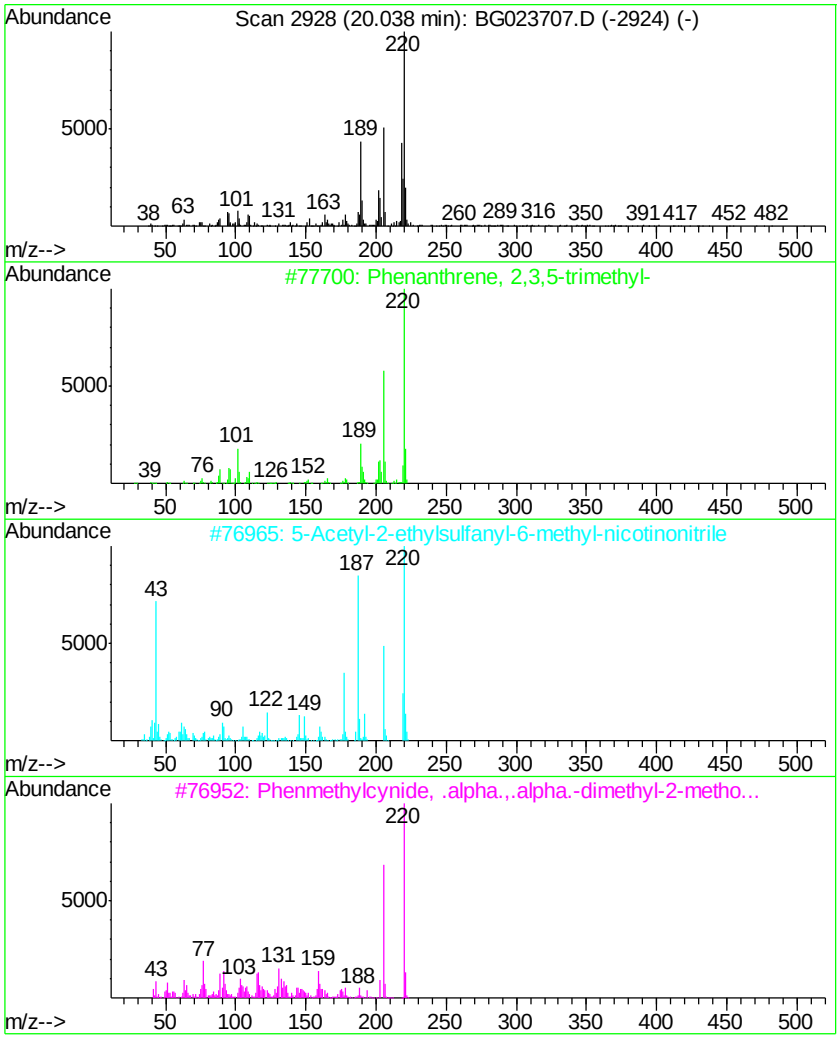
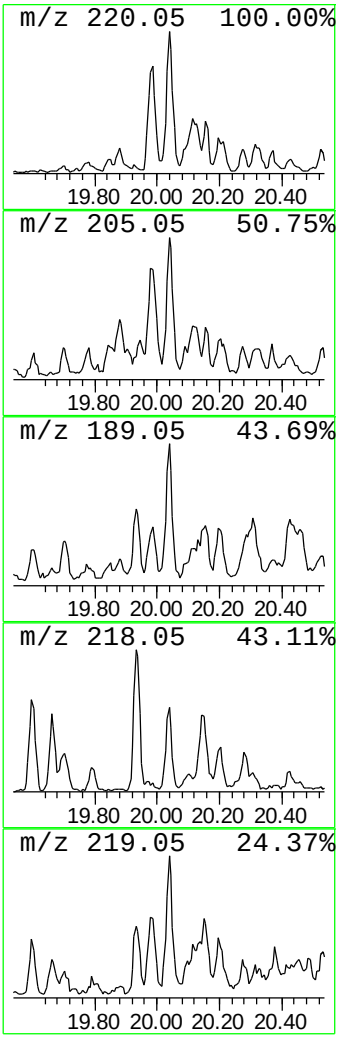
Peak Number 27 Phenanthrene, 2,3,5-trimethyl- Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.04	3.36 ng/ul	722675	Chrysene-d12	21.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,3,5-trimethyl-	220	C17H16	003674-73-5	60
2	5-Acetyl-2-ethylsulfanyl-6-methy...	220	C11H12N2OS	303146-26-1	47
3	Phenmethylcynide, .alpha.,.alpha...	220	C11H12N2O3	1000128-94-6	46
4	3,5-Cyclohexadiene-1,2-dione, 3,...	220	C14H20O2	003383-21-9	38
5	Naphthalene, 1-phenoxy-	220	C16H12O	003402-76-4	38





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Acq On : 14 Aug 2016 3:18
Operator : UM/SJ
Sample : H4388-05
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : PR002-SS002-0002-01

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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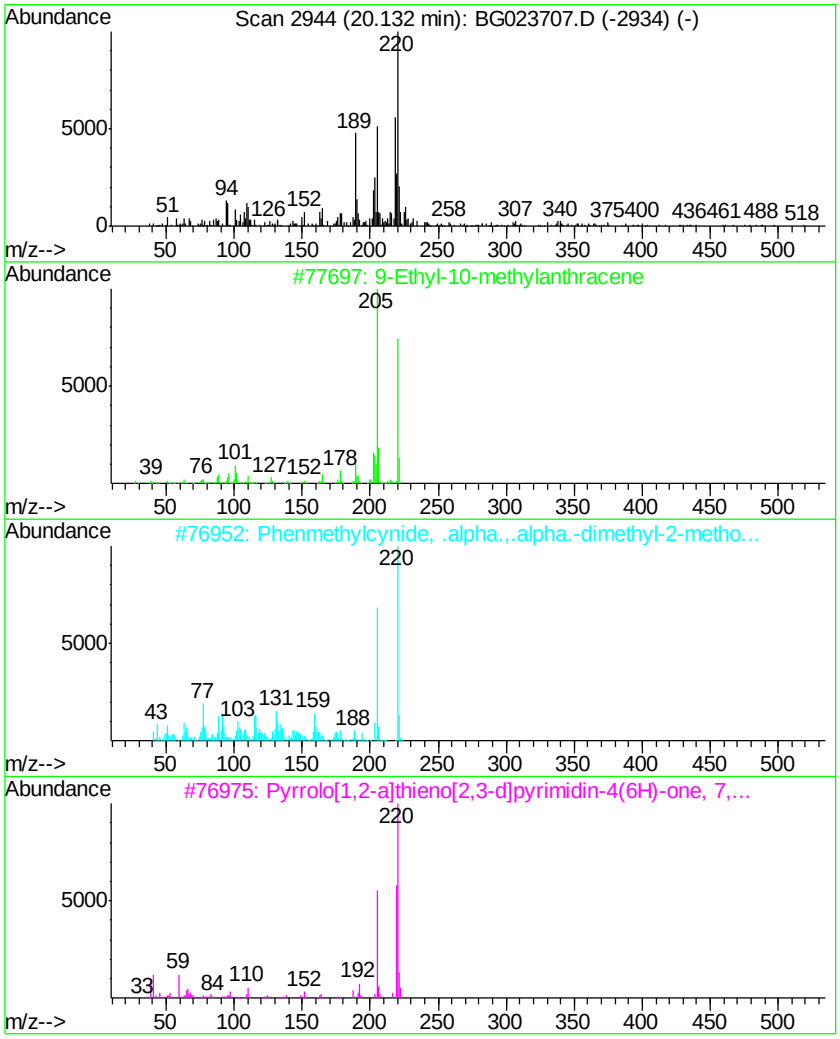
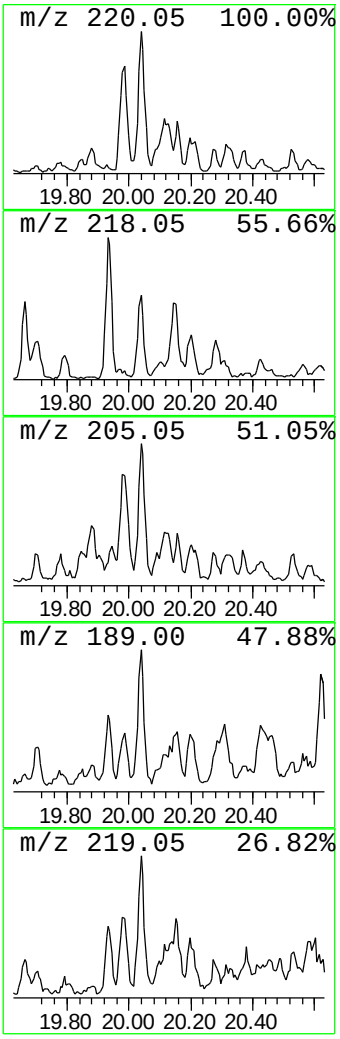
Peak Number 28 9-Ethyl-10-methylanthracene Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.13	2.12 ng/ul	456953	Chrysene-d12	21.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Ethyl-10-methylanthracene	220	C17H16	019713-49-6	60
2	Phenmethylcynide, .alpha.,.alpha...	220	C11H12N2O3	1000128-94-6	49
3	Pyrrolo[1,2-a]thieno[2,3-d]pyrim...	220	C11H12N2OS	056929-61-4	49
4	l-Phenylalanine, N-(trifluoroace...	333	C14H18F3NO3Si	052558-84-6	47
5	Anthracene, 9-(1-methylethyl)-	220	C17H16	001498-80-2	47





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Operator : UM/SJ
Sample : H4388-05
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : PR002-SS002-0002-01

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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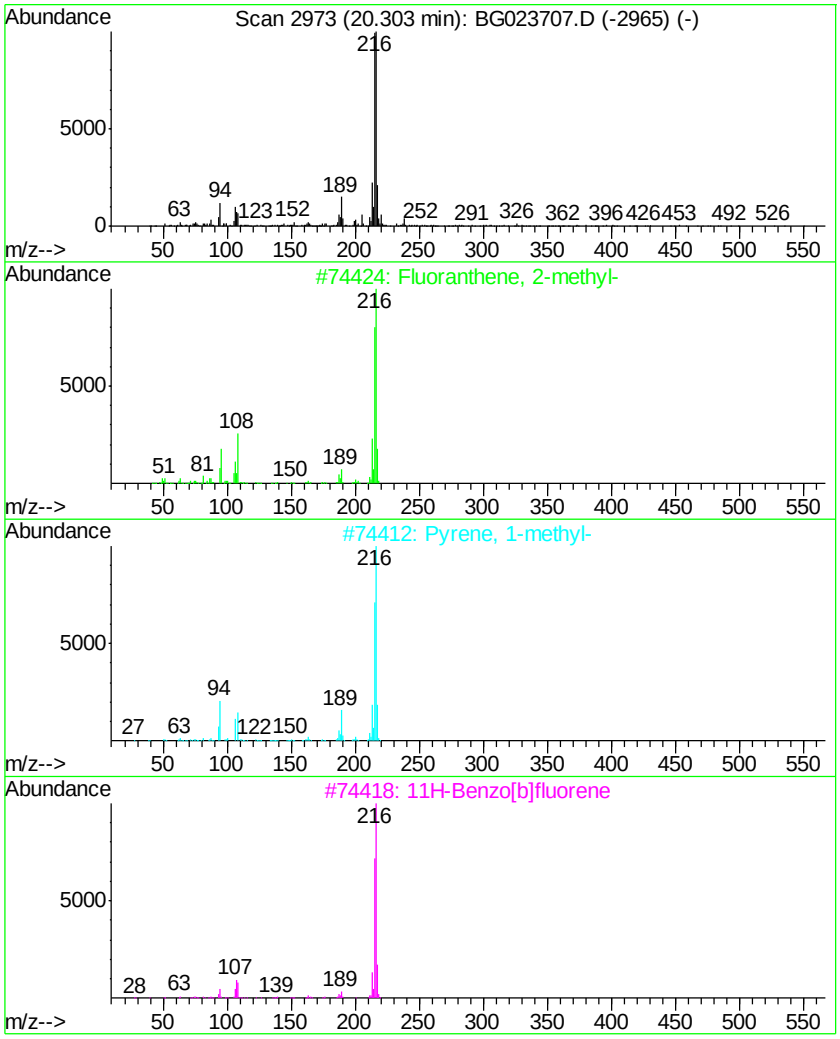
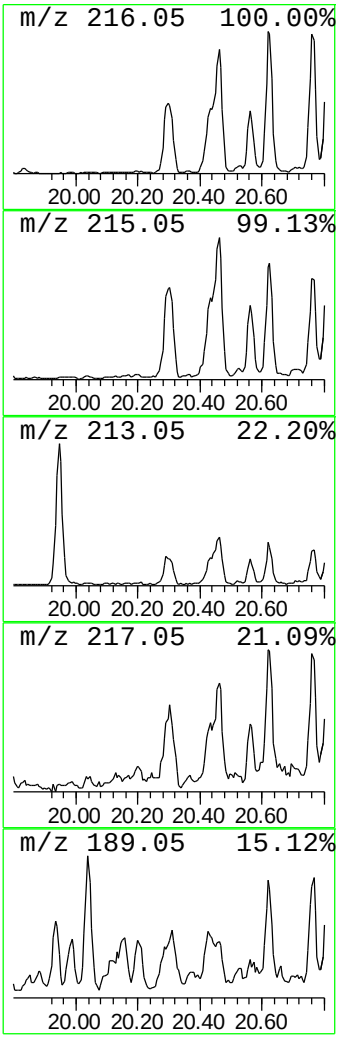
Peak Number 29 Fluoranthene, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.30	5.26 ng/ul	1131790	Chrysene-d12	21.88

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	91
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	83





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Data File : BG023707.D
Acq On : 14 Aug 2016 3:18
Operator : UM/SJ
Sample : H4388-05
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : PR002-SS002-0002-01

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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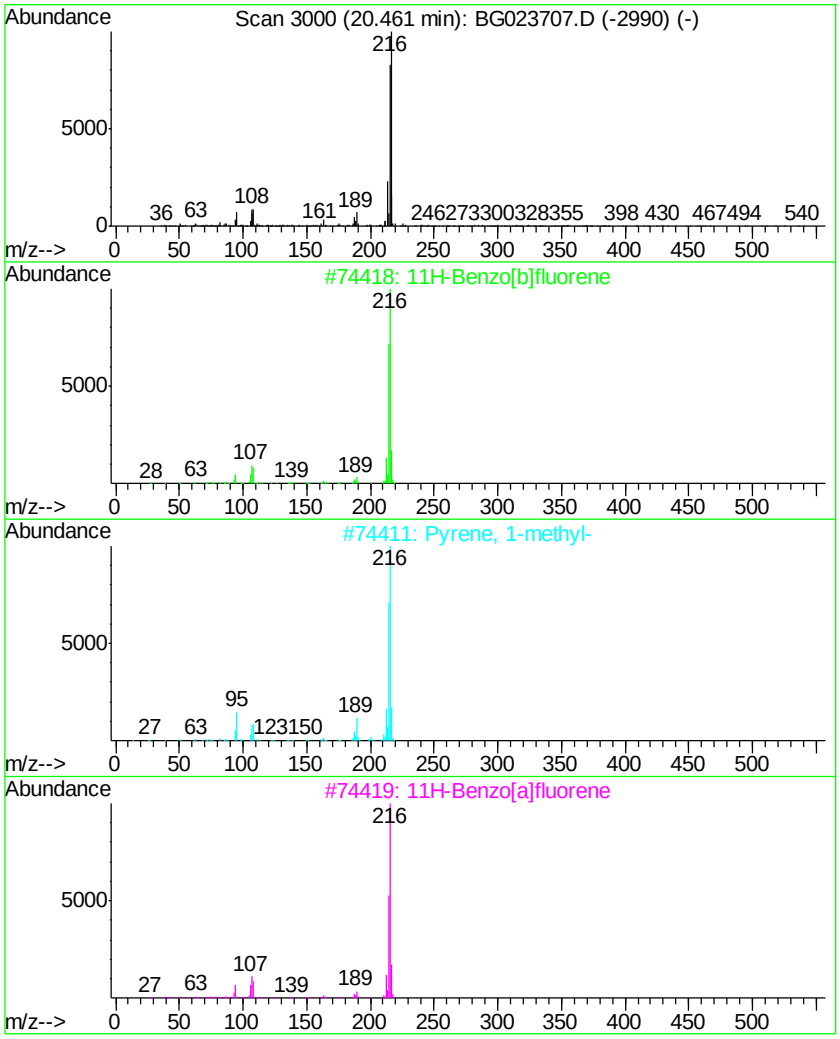
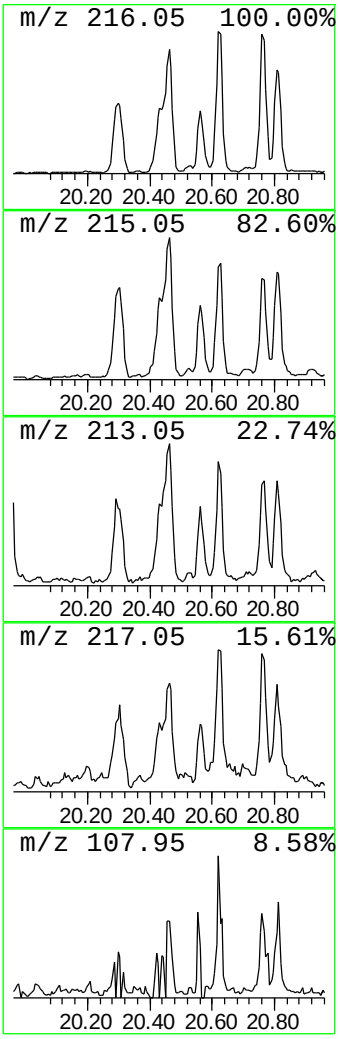
Peak Number 30 11H-Benzo[b]fluorene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.46	7.95 ng/ul	1710840	Chrysene-d12	21.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	96
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	94
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93





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Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : PR002-SS002-0002-01

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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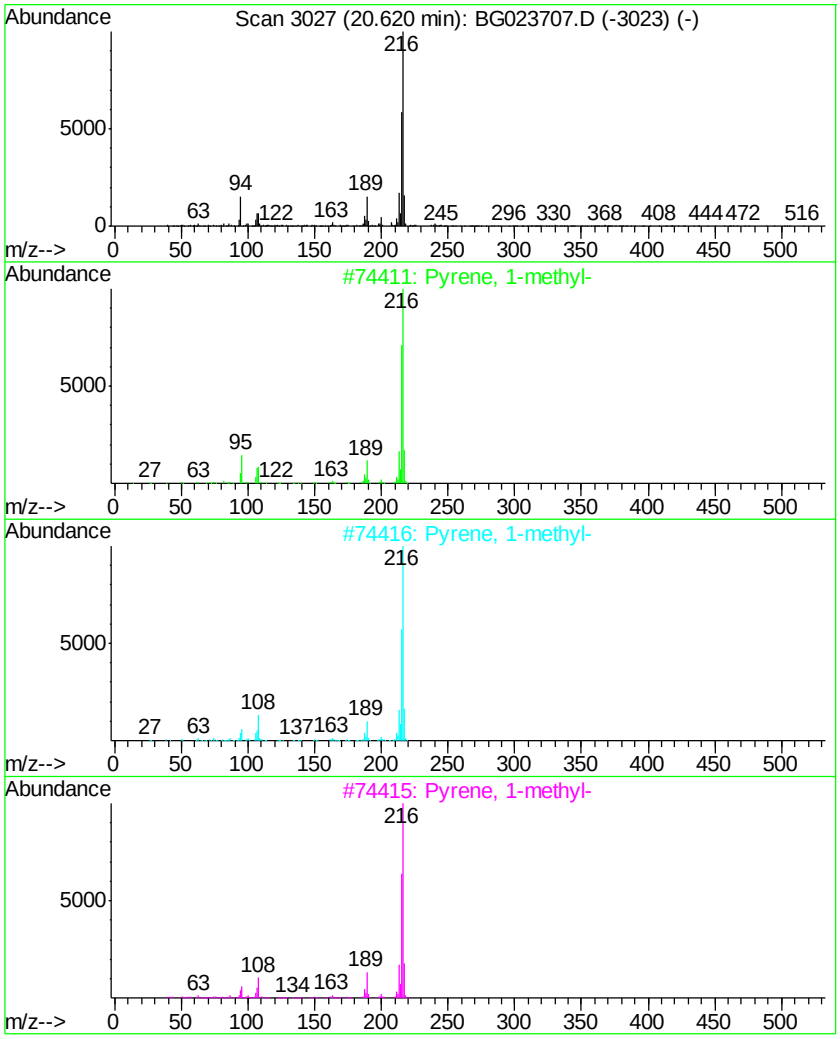
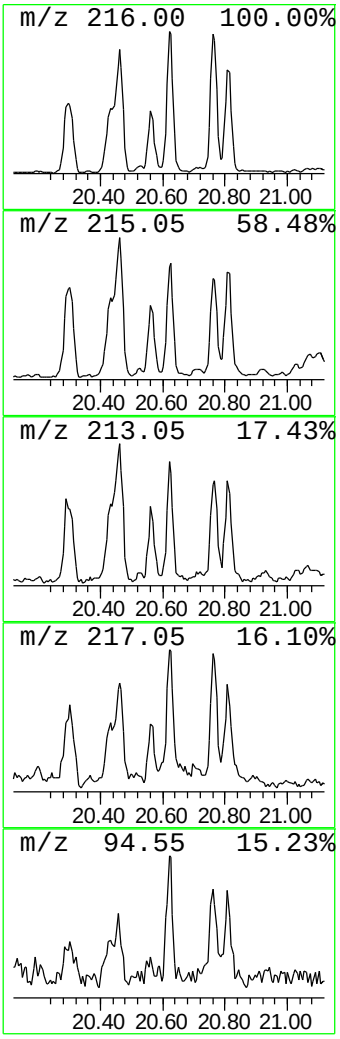
Peak Number 31 Pyrene, 1-methyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.62	3.96 ng/ul	852631	Chrysene-d12	21.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	97
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	97
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081316\
Data File : BG023707.D
Acq On : 14 Aug 2016 3:18
Operator : UM/SJ
Sample : H4388-05
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : PR002-SS002-0002-01

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
Hexanoic acid, 2-...	9.41	2.3	ng/ul	100856	1	8.11	879556	20.0
Naphthalene, 1-me...	12.82	2.2	ng/ul	140997	2	10.95	1308330	20.0
Naphthalene, 1,4-...	14.10	2.4	ng/ul	244997	3	14.79	2056610	20.0
Naphthalene, 1,4,...	15.18	2.1	ng/ul	211712	3	14.79	2056610	20.0
Naphthalene, 1-me...	16.51	2.3	ng/ul	212770	4	17.55	1860580	20.0
(3H)Benzo[c]pyrro...	16.84	3.5	ng/ul	328616	4	17.55	1860580	20.0
9H-Fluoren-9-one	17.20	2.3	ng/ul	212160	4	17.55	1860580	20.0
Naphtho[2,1-b]thi...	17.37	3.2	ng/ul	296886	4	17.55	1860580	20.0
4-Methylnaphtho[1...	18.14	5.1	ng/ul	477137	4	17.55	1860580	20.0
Tacrine	18.29	4.8	ng/ul	442873	4	17.55	1860580	20.0
2-Phenanthrenol	18.36	2.2	ng/ul	204354	4	17.55	1860580	20.0
Phenanthrene, 2-m...	18.43	20.9	ng/ul	1946360	4	17.55	1860580	20.0
Phenanthrene, 1-m...	18.48	18.4	ng/ul	1706730	4	17.55	1860580	20.0
1,2,4,8-Tetrameth...	18.92	6.9	ng/ul	642195	4	17.55	1860580	20.0
9,10-Anthracenedione	18.98	10.3	ng/ul	958172	4	17.55	1860580	20.0
Phenanthrene, 3,6...	19.17	7.0	ng/ul	650084	4	17.55	1860580	20.0
Phenanthrene, 2,5...	19.34	17.0	ng/ul	1577910	4	17.55	1860580	20.0
9,10-Dimethylanth...	19.40	6.7	ng/ul	624092	4	17.55	1860580	20.0
Anthracene, 1,4-d...	19.43	3.6	ng/ul	336567	4	17.55	1860580	20.0
Cyclopenta(def)ph...	19.49	8.9	ng/ul	831619	4	17.55	1860580	20.0
1H-Pyrrolo[3,4-c]...	19.66	3.2	ng/ul	301676	4	17.55	1860580	20.0
Phenanthrene, 2,3...	20.04	3.4	ng/ul	722675	5	21.88	4306130	20.0
9-Ethyl-10-methyl...	20.13	2.1	ng/ul	456953	5	21.88	4306130	20.0
Fluoranthene, 2-m...	20.30	5.3	ng/ul	1131790	5	21.88	4306130	20.0
11H-Benzo[b]fluorene	20.46	8.0	ng/ul	1710840	5	21.88	4306130	20.0
Pyrene, 1-methyl-	20.62	4.0	ng/ul	852631	5	21.88	4306130	20.0