LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG081316\
Data File : BG023702.D
Acq On : 14 Aug 2016 00:09
Operator : UM/SJ
Sample : H4385-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS003-2430-01

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	747	754	766	rBV	510491	920243	13.78%	0.738%
2	7.425	772	781	791	rVB	396425	667040	9.99%	0.535%
3	7.637	809	817	826	rVV	487024	883084	13.23%	0.708%
4	8.113	891	898	905	rBV	462916	813857	12.19%	0.652%
5	8.829	1012	1020	1029	rBV	579175	1066341	15.97%	0.855%
6	9.293	1091	1099	1112	rBV	490223	924988	13.86%	0.741%
7	10.022	1215	1223	1233	rBV	459134	838138	12.55%	0.672%
8	10.568	1308	1316	1326	rBV	615530	1197448	17.94%	0.960%
9	10.950	1374	1381	1387	rVV	676287	1255178	18.80%	1.006%
10	11.091	1397	1405	1415	rVV	439607	875382	13.11%	0.702%
11	12.830	1694	1701	1708	rBV	113345	210012	3.15%	0.168%
12	14.099	1911	1917	1922	rVV2	241537	430135	6.44%	0.345%
13	14.181	1922	1931	1935	rVV	1170689	1978078	29.63%	1.586%
14	14.228	1935	1939	1946	rVB	615123	925641	13.87%	0.742%
15	14.339	1952	1958	1962	rBV	110985	196450	2.94%	0.157%
16	14.480	1975	1982	1997	rBV2	1284091	2722586	40.78%	2.182%
17	14.786	2022	2034	2041	rBV2	1025284	1797095	26.92%	1.440%
18	15.003	2062	2071	2080	rBV3	377119	895304	13.41%	0.718%
19	15.179	2093	2101	2109	rVB3	201203	399562	5.99%	0.320%
20	15.256	2109	2114	2121	rVB	195591	288735	4.33%	0.231%
21	15.397	2131	2138	2143	rBV4	170767	344986	5.17%	0.277%
22	15.602	2170	2173	2178	rVB2	169264	239018	3.58%	0.192%
23	15.785	2198	2204	2209	rBV	1658177	2353808	35.26%	1.887%
24	15.837	2209	2213	2222	rVB	260814	491121	7.36%	0.394%
25	15.914	2222	2226	2232	rBV	403702	624452	9.35%	0.501%
26	16.131	2255	2263	2270	rVB3	99824	237809	3.56%	0.191%
27	16.278	2284	2288	2296	rVB2	114611	221395	3.32%	0.177%
28	16.507	2324	2327	2336	rVB4	149034	274705	4.11%	0.220%
29	16.848	2376	2385	2389	rBV4	200800	479669	7.19%	0.384%
30	16.895	2389	2393	2398	rVB	157853	235159	3.52%	0.188%
31	16.995	2405	2410	2415	rVB2	123974	191770	2.87%	0.154%
32	17.077	2415	2424	2428	rBV6	113944	280558	4.20%	0.225%
33	17.112	2428	2430	2439	rVV6	96568	220414	3.30%	0.177%
34	17.200	2441	2445	2453	rVV2	179315	361743	5.42%	0.290%

LSC Area Percent Report

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Acq On : 14 Aug 2016 00:09
Operator : UM/SJ
Sample : H4385-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS003-2430-01

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	17.271	2453	2457	2463	rVV3	191141	324385	4.86%	0.260%
36	17.371	2469	2474	2480	rVB	282928	454590	6.81%	0.364%
37	17.553	2499	2505	2508	rBV	1173026	1818945	27.25%	1.458%
38	17.594	2508	2512	2517	rVV	2806266	4280240	64.12%	3.431%
39	17.653	2517	2522	2526	rVV	1714086	2638103	39.52%	2.115%
40	17.688	2526	2528	2532	rVV	386872	483711	7.25%	0.388%
41	17.741	2532	2537	2542	rVV3	167984	372778	5.58%	0.299%
42	17.823	2547	2551	2556	rVV6	93683	244784	3.67%	0.196%
43	17.970	2570	2576	2580	rBV3	111346	263027	3.94%	0.211%
44	18.140	2600	2605	2612	rVB	390125	643956	9.65%	0.516%
45	18.281	2624	2629	2637	rVB	244603	502423	7.53%	0.403%
46	18.357	2637	2642	2647	rBV4	131182	231897	3.47%	0.186%
47	18.428	2649	2654	2659	rVV2	1477347	2466273	36.94%	1.977%
48	18.481	2659	2663	2669	rVB	1594835	2281362	34.17%	1.829%
49	18.563	2672	2677	2681	rBV2	246859	404389	6.06%	0.324%
50	18.622	2681	2687	2691	rVV3	1235282	2333385	34.95%	1.870%
51	18.663	2691	2694	2699	rVB	964223	1317028	19.73%	1.056%
52	18.827	2718	2722	2726	rVB3	204180	272450	4.08%	0.218%
53	18.921	2734	2738	2743	rBV	588876	928175	13.90%	0.744%
54	18.980	2743	2748	2756	rVB2	492174	918348	13.76%	0.736%
55	19.168	2772	2780	2785	rBV2	435581	949090	14.22%	0.761%
56	19.221	2785	2789	2792	rVV	632156	805022	12.06%	0.645%
57	19.262	2792	2796	2801	rVB2	456498	640920	9.60%	0.514%
58	19.344	2804	2810	2814	rBV	1352387	2321883	34.78%	1.861%
59	19.397	2814	2819	2823	rVV3	467213	982988	14.72%	0.788%
60	19.433	2823	2825	2829	rVB	446157	520040	7.79%	0.417%
61	19.491	2829	2835	2840	rBV3	571475	1307872	19.59%	1.048%
62	19.609	2850	2855	2861	rVB	3387613	5398506	80.87%	4.327%
63	19.667	2861	2865	2867	rBV	301541	427264	6.40%	0.342%
64	19.697	2867	2870	2875	rVB3	388268	644547	9.65%	0.517%
65	19.761	2877	2881	2885	rBV	402417	547378	8.20%	0.439%
66	19.850	2892	2896	2899	rBV3	251940	400517	6.00%	0.321%
67	19.949	2907	2913	2914	rBV2	2113851	3131604	46.91%	2.510%
68	19.979	2914	2918	2924	rVB	4314399	6675809	100.00%	5.351%
69	20.038	2924	2928	2934	rVB	749550	1152158	17.26%	0.924%
70	20.126	2934	2943	2944	rBV3	283806	660514	9.89%	0.529%
71	20.202	2952	2956	2963	rVB4	351519	688500	10.31%	0.552%

LSC Area Percent Report

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Acq On : 14 Aug 2016 00:09
Operator : UM/SJ
Sample : H4385-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS003-2430-01

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	20.302	2965	2973	2979	rBV5	657348	1810772	27.12%	1.451%
73	20.378	2981	2986	2989	rVV6	133098	283186	4.24%	0.227%
74	20.461	2990	3000	3008	rVB	989110	2746549	41.14%	2.202%
75	20.531	3008	3012	3014	rBV3	189634	273516	4.10%	0.219%
76	20.560	3014	3017	3021	rVV	452389	611945	9.17%	0.491%
77	20.625	3022	3028	3032	rVV2	947908	1447476	21.68%	1.160%
78	20.766	3047	3052	3056	rBV	899348	1318469	19.75%	1.057%
79	20.813	3056	3060	3069	rVB2	827935	1472138	22.05%	1.180%
80	21.030	3093	3097	3099	rBV4	145916	232612	3.48%	0.186%
81	21.066	3100	3103	3106	rVV3	166922	256867	3.85%	0.206%
82	21.248	3129	3134	3140	rVB2	677020	1145367	17.16%	0.918%
83	21.342	3148	3150	3156	rVB	235856	343612	5.15%	0.275%
84	21.442	3158	3167	3170	rVV4	645074	1619224	24.26%	1.298%
85	21.477	3170	3173	3178	rVV	640197	1039359	15.57%	0.833%
86	21.536	3179	3183	3187	rVV2	426225	798632	11.96%	0.640%
87	21.594	3191	3193	3201	rVB2	494163	775252	11.61%	0.621%
88	21.729	3211	3216	3222	rBV	3310284	4495131	67.33%	3.603%
89	21.865	3232	3239	3246	rBV2	2334895	6511463	97.54%	5.219%
90	21.929	3246	3250	3262	rVB	2137882	3762493	56.36%	3.016%
91	22.088	3274	3277	3282	rVB3	157006	257610	3.86%	0.206%
92	22.158	3285	3289	3302	rVV5	339053	824797	12.36%	0.661%
93	22.646	3363	3372	3380	rBV	662764	1654605	24.79%	1.326%
94	22.716	3380	3384	3392	rVB	405520	790004	11.83%	0.633%
95	22.934	3416	3421	3425	rBV2	336917	606448	9.08%	0.486%
96	24.208	3629	3638	3645	rBV3	1219313	4118611	61.69%	3.301%
97	24.972	3760	3768	3774	rBV	651396	1896631	28.41%	1.520%
98	25.054	3776	3782	3788	rVV2	891059	2413286	36.15%	1.934%
99	25.131	3788	3795	3807	rVB	1177272	3516504	52.68%	2.819%
100	25.283	3814	3821	3830	rVB2	531799	1456721	21.82%	1.168%

Sum of corrected areas: 124756045

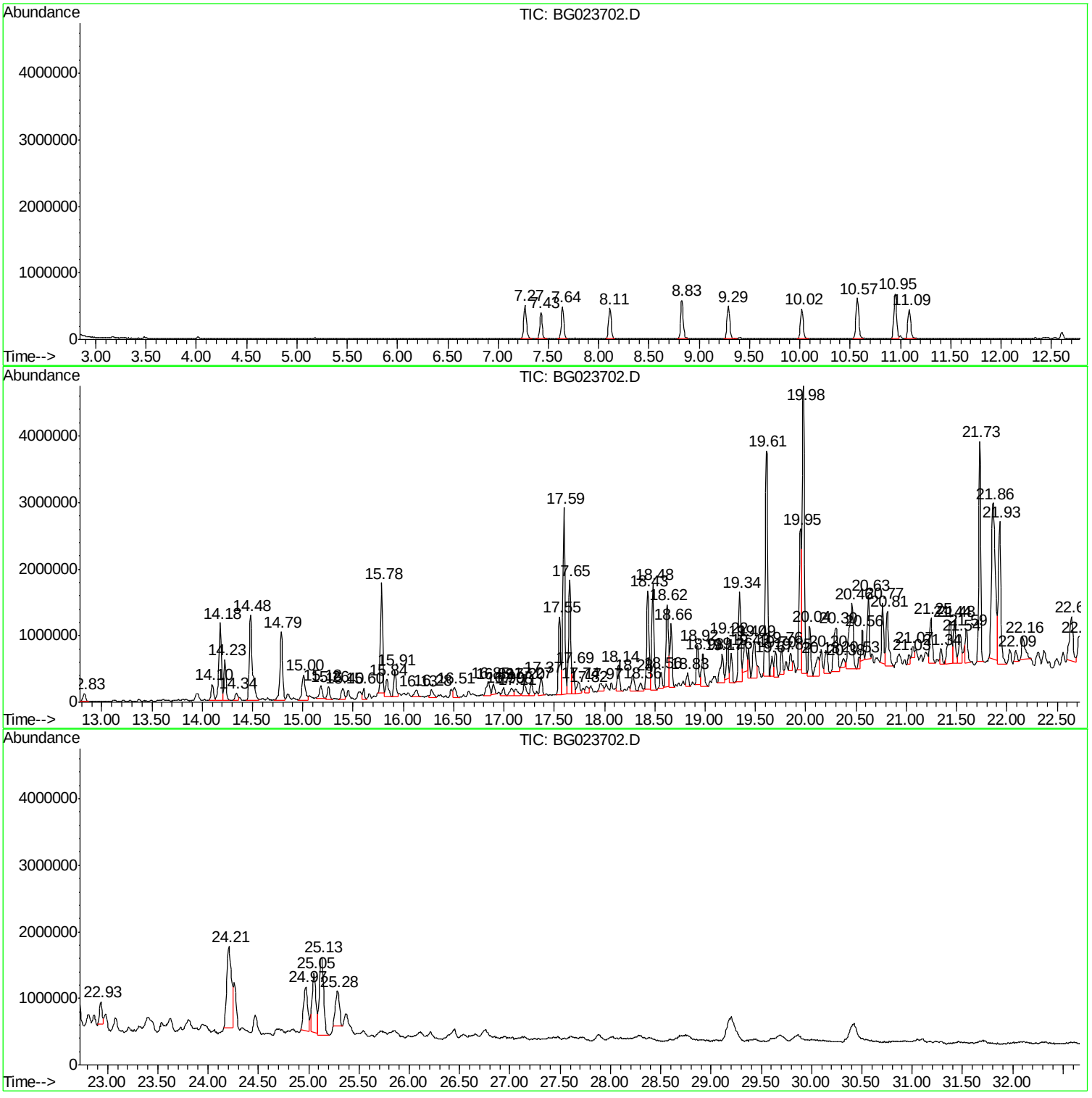
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA G\DATA\BG081316\
Data File : BG023702.D
Acq On : 14 Aug 2016 00:09
Operator : UM/SJ
Sample : H4385-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS003-2430-01

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 : BG023702.D
Acq On : 14 Aug 2016 00:09
Operator : UM/SJ
Sample : H4385-11
Misc :
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Instrument : BNA_G
ClientSampleId : P002-SS003-2430-01

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

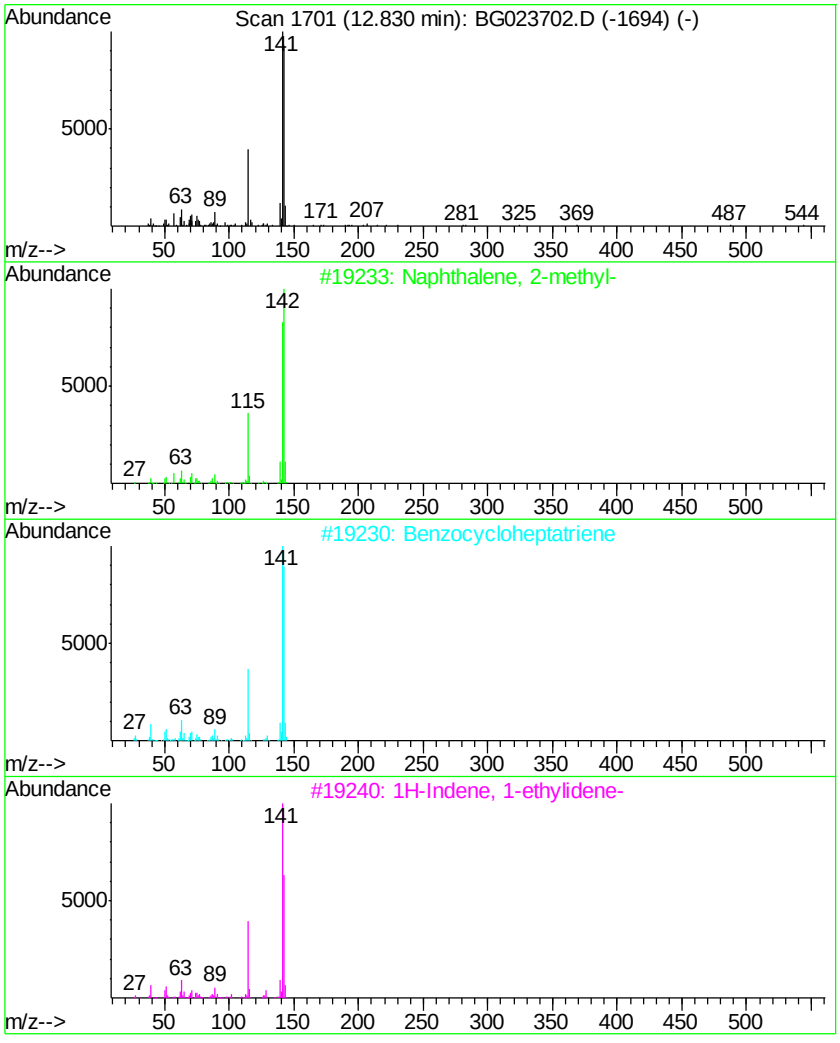
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

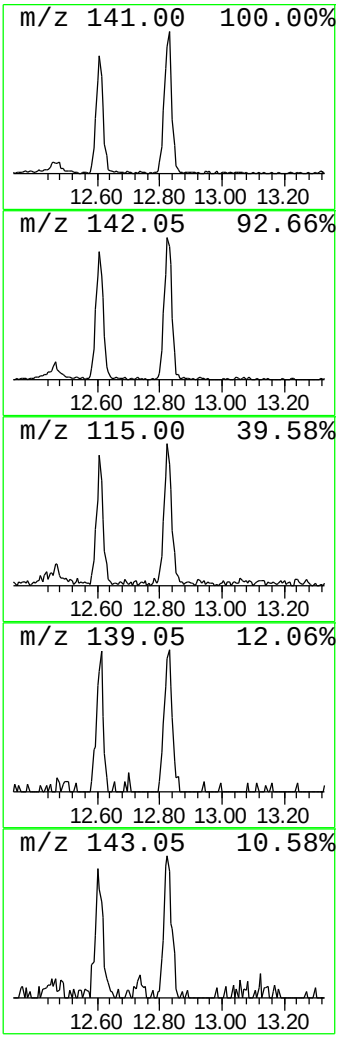
****

Peak Number 1 Benzocycloheptatriene Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.83	3.35 ng/ul	210012	Naphthalene-d8	10.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	94
2	Benzocycloheptatriene	142	C11H10	000264-09-5	91
3	1H-Indene, 1-ethylidene-	142	C11H10	002471-83-2	91
4	Bicyclo[4.4.1]undeca-1,3,5,7,9-p...	142	C11H10	002443-46-1	91
5	1H-Indene, 1-ethylidene-	142	C11H10	002471-83-2	91





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG081316\
Data File : BG023702.D
Acq On : 14 Aug 2016 00:09
Operator : UM/SJ
Sample : H4385-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS003-2430-01

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

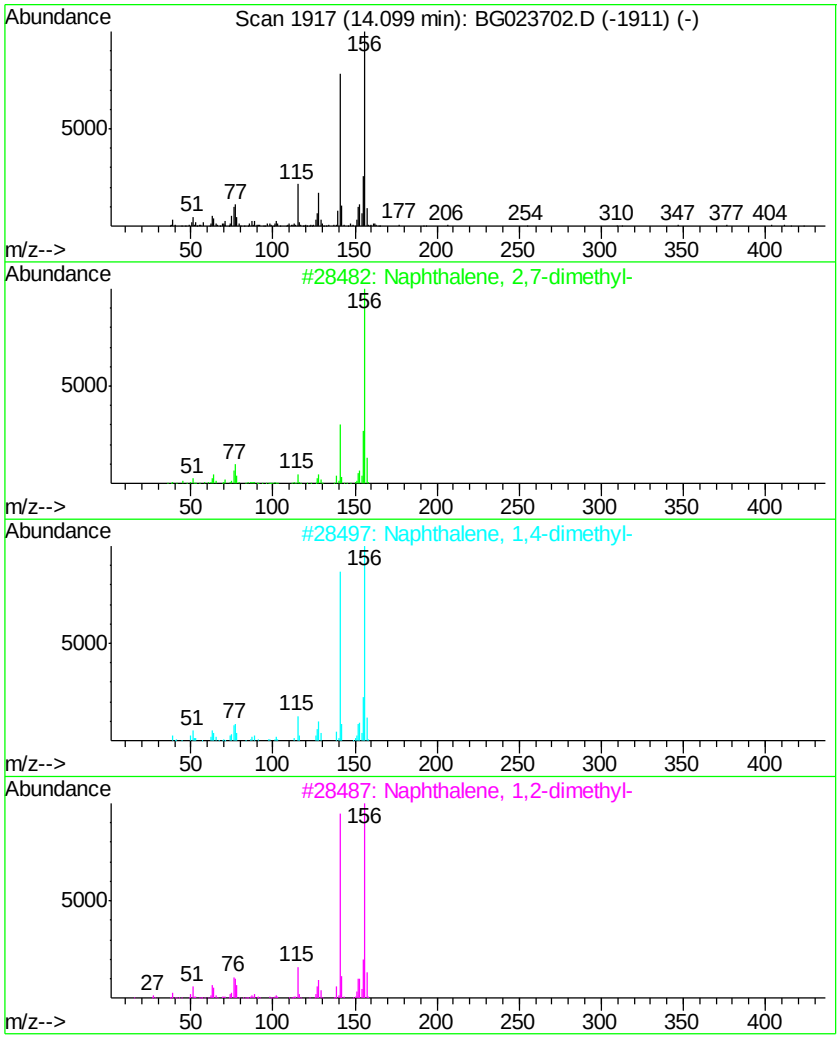
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

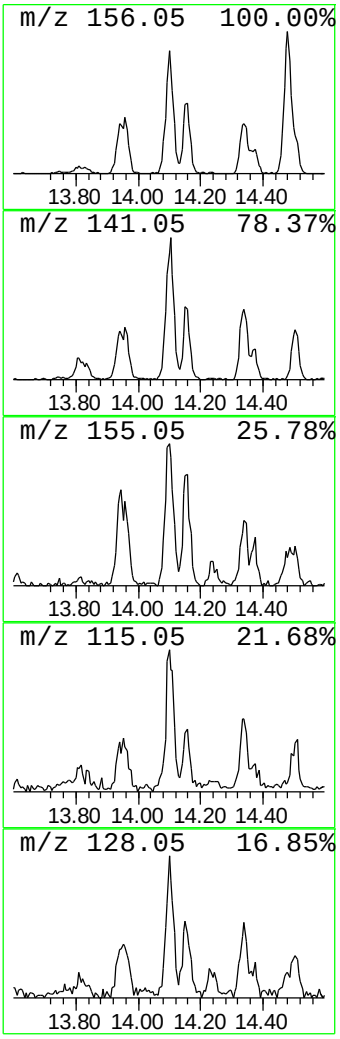
****

Peak Number 2 Naphthalene, 2,7-dimethyl- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.10	4.79 ng/ul	430135	Acenaphthene-d10	14.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	95
2	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	94
3	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	94
4	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	94
5	Naphthalene, 1,8-dimethyl-	156	C12H12	000569-41-5	94





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG081316\
Data File : BG023702.D
Acq On : 14 Aug 2016 00:09
Operator : UM/SJ
Sample : H4385-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS003-2430-01

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

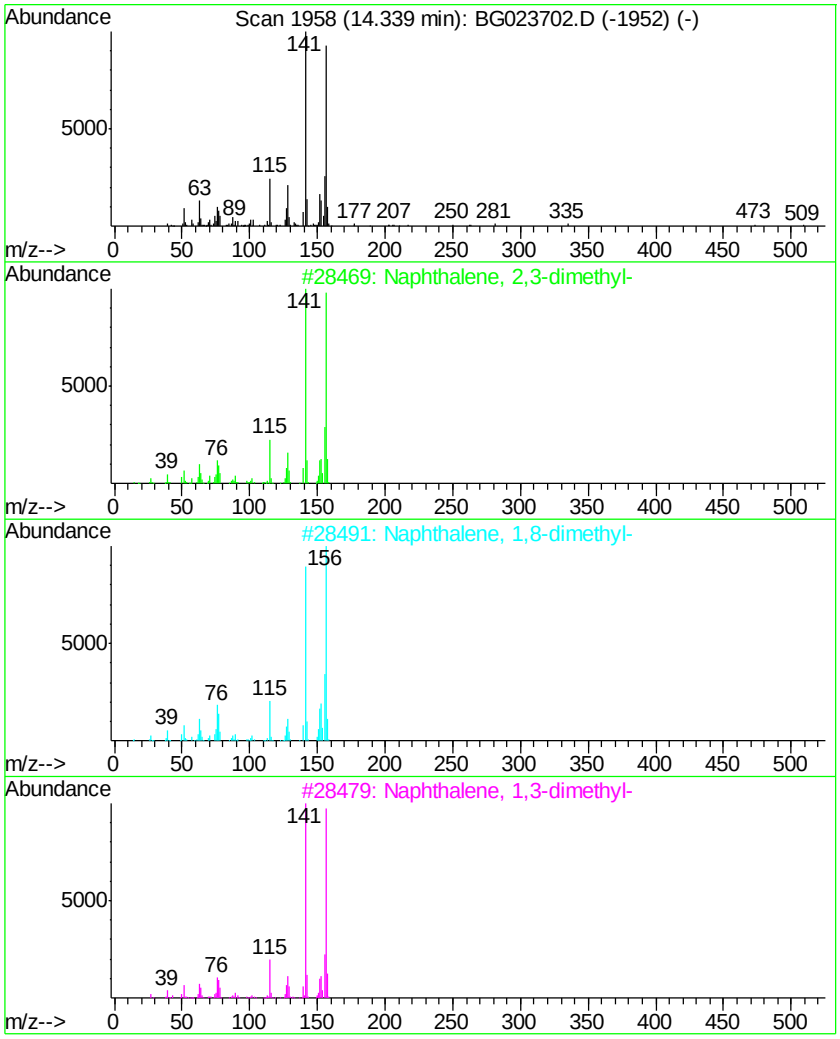
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

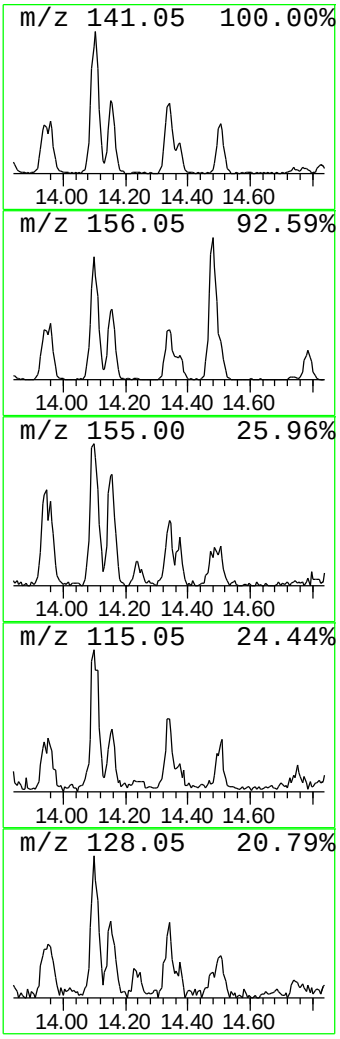
****

Peak Number 3 Naphthalene, 2,3-dimethyl- Concentration Rank 54

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.34	2.19 ng/ul	196450	Acenaphthene-d10	14.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96
2	Naphthalene, 1,8-dimethyl-	156	C12H12	000569-41-5	95
3	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	94
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	94
5	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	94





Data Path : Z:\HPCHEM1\BNA G\DATA\BG081316\
Data File : BG023702.D
Acq On : 14 Aug 2016 00:09
Operator : UM/SJ
Sample : H4385-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS003-2430-01

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

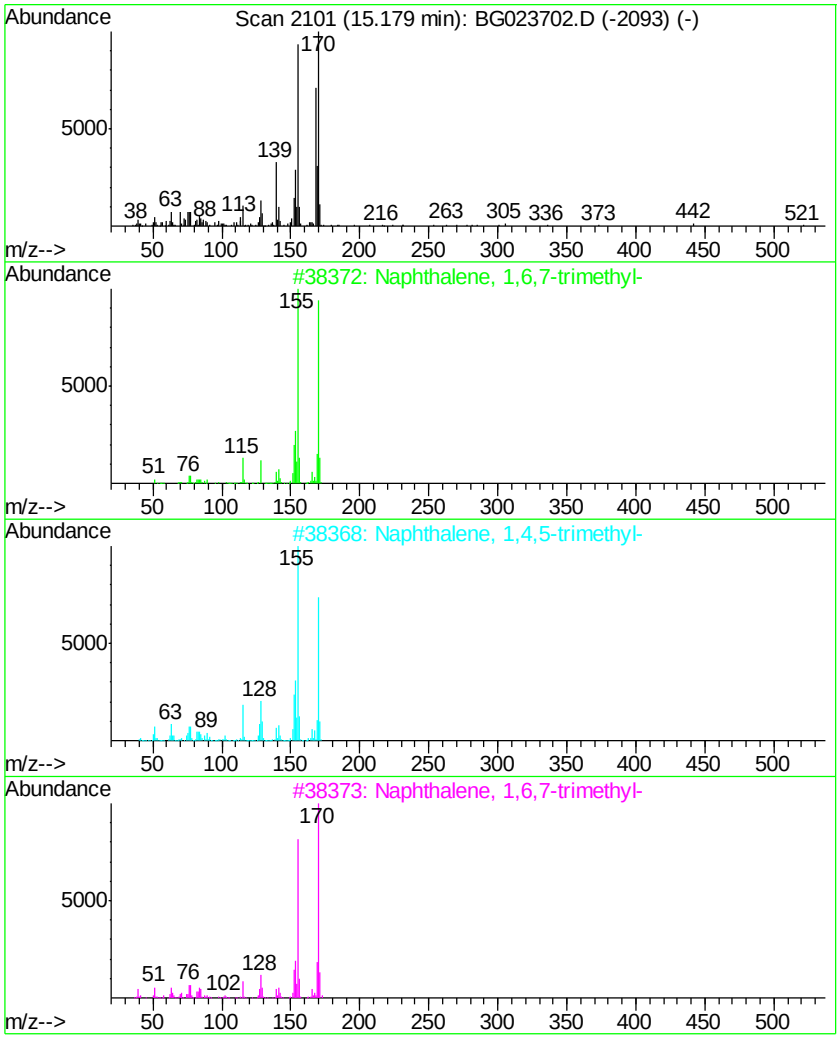
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

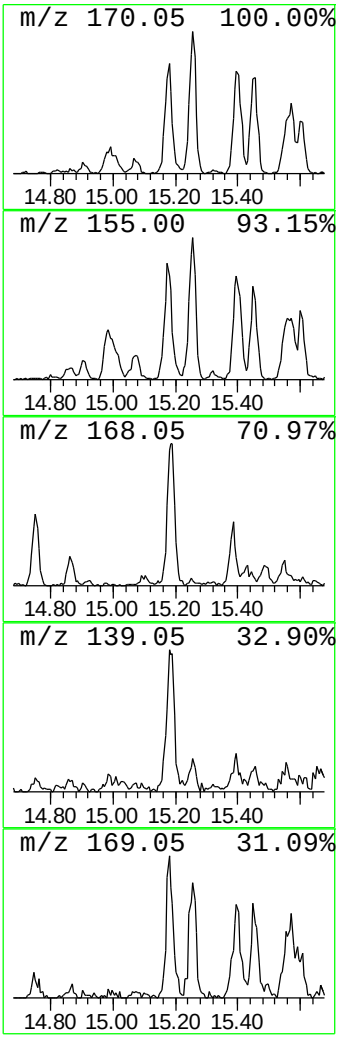
****

Peak Number 4 Naphthalene, 1,6,7-trimethyl- Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.18	4.45 ng/ul	399562	Acenaphthene-d10	14.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	95
2	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	95
3	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	95
4	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	93
5	4,6,8-Trimethylazulene	170	C13H14	000941-81-1	89





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG081316\
Data File : BG023702.D
Acq On : 14 Aug 2016 00:09
Operator : UM/SJ
Sample : H4385-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS003-2430-01

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

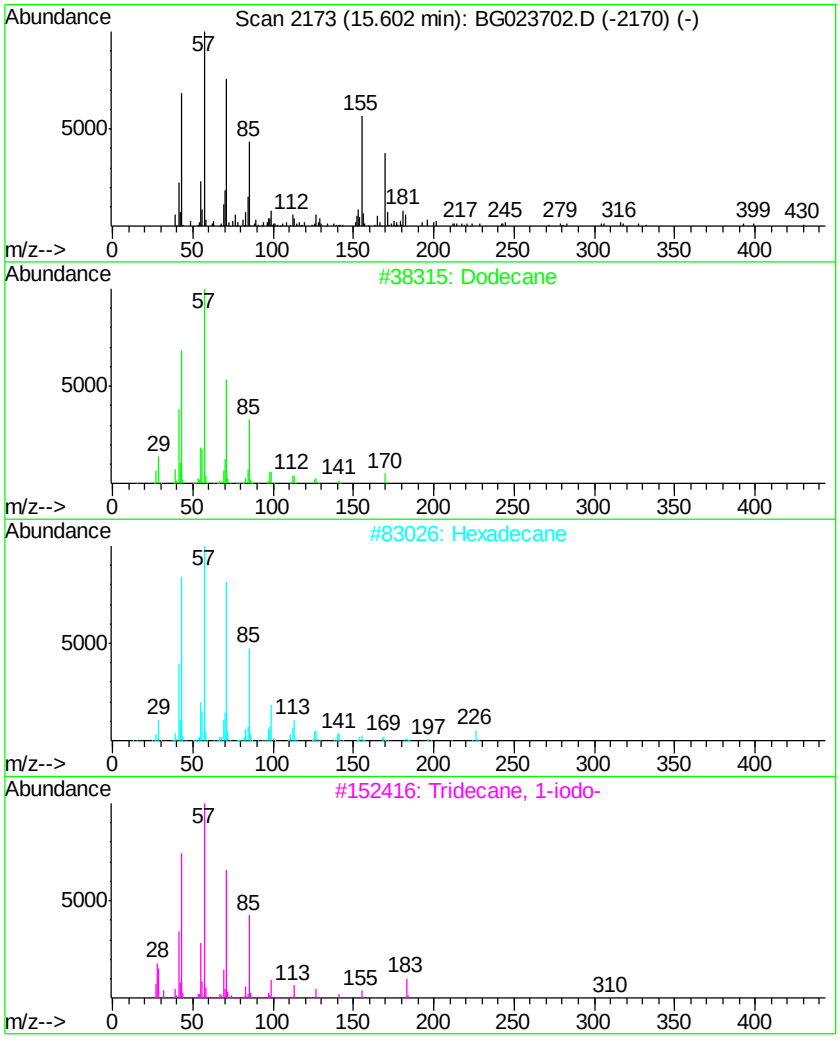
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

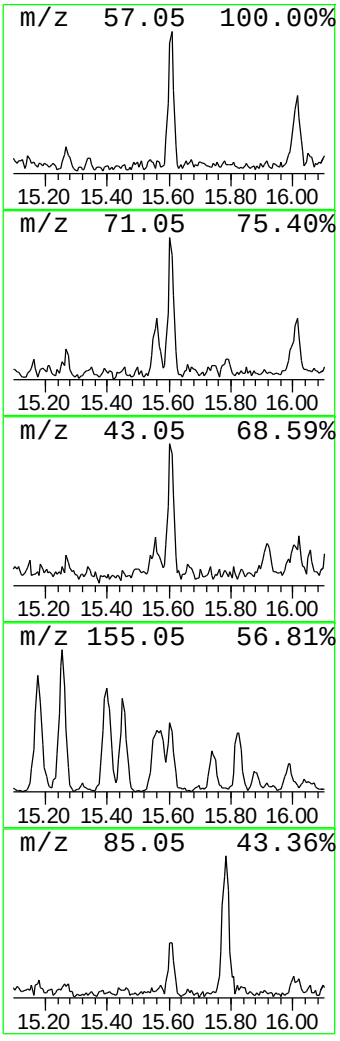
****

Peak Number 7 (DEL) Alkane: Straight-Chai... Concentration Rank 44

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.60	2.66 ng/ul	239018	Acenaphthene-d10	14.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane	170	C12H26	000112-40-3	53
2	Hexadecane	226	C16H34	000544-76-3	50
3	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	50
4	Decane, 2,3,5-trimethyl-	184	C13H28	062238-11-3	50
5	Undecane	156	C11H24	001120-21-4	49





Library Search Compound Report

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Data File : BG023702.D
Acq On : 14 Aug 2016 00:09
Operator : UM/SJ
Sample : H4385-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS003-2430-01

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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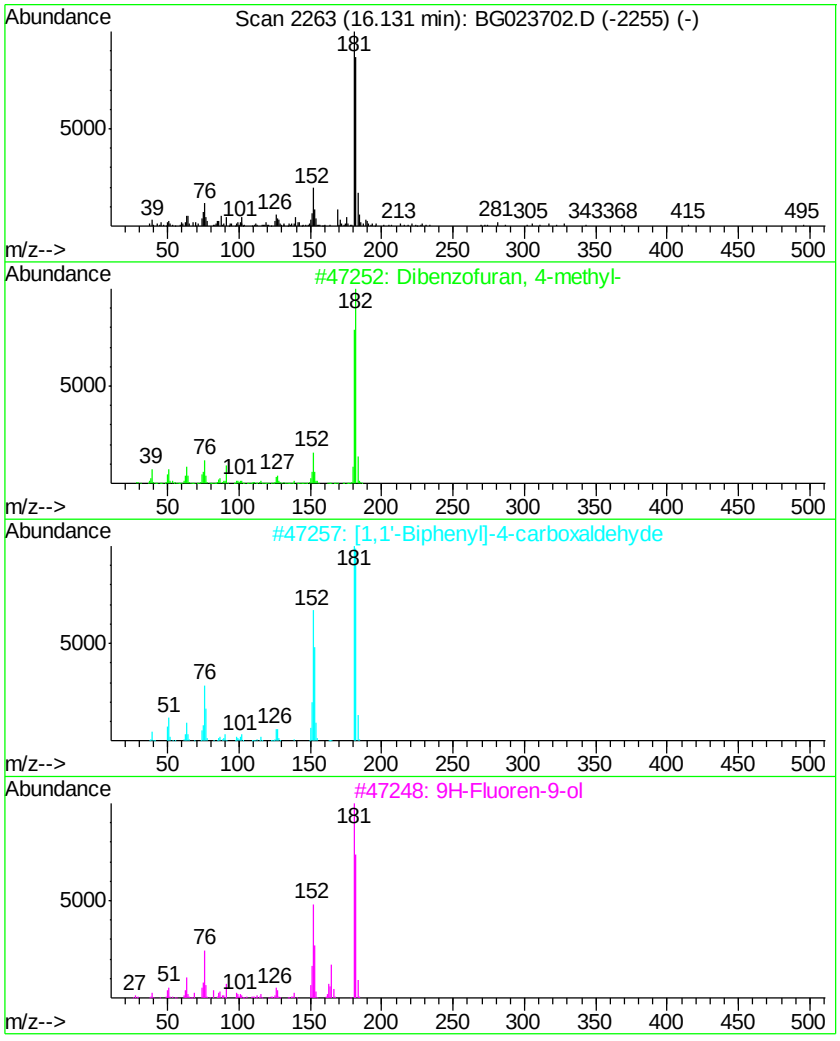
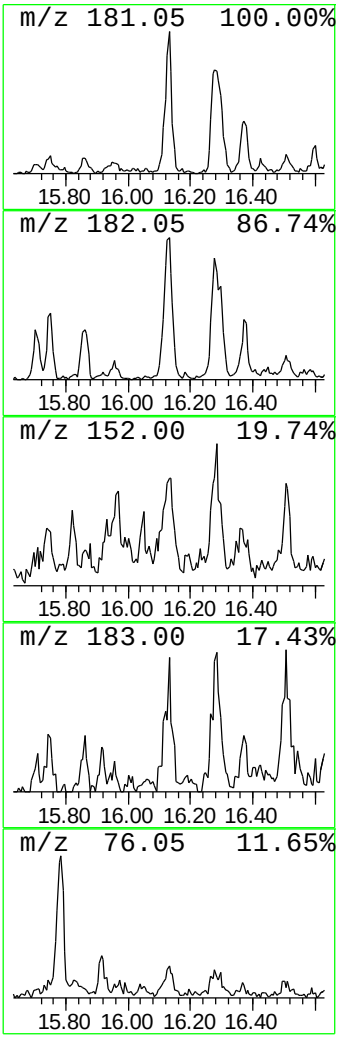
Peak Number 8 Dibenzofuran, 4-methyl- Concentration Rank 45

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.13	2.65 ng/ul	237809	Acenaphthene-d10	14.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	91
2	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	87
3	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
4	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
5	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78





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Instrument : BNA_G
ClientSampleId : P002-SS003-2430-01

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

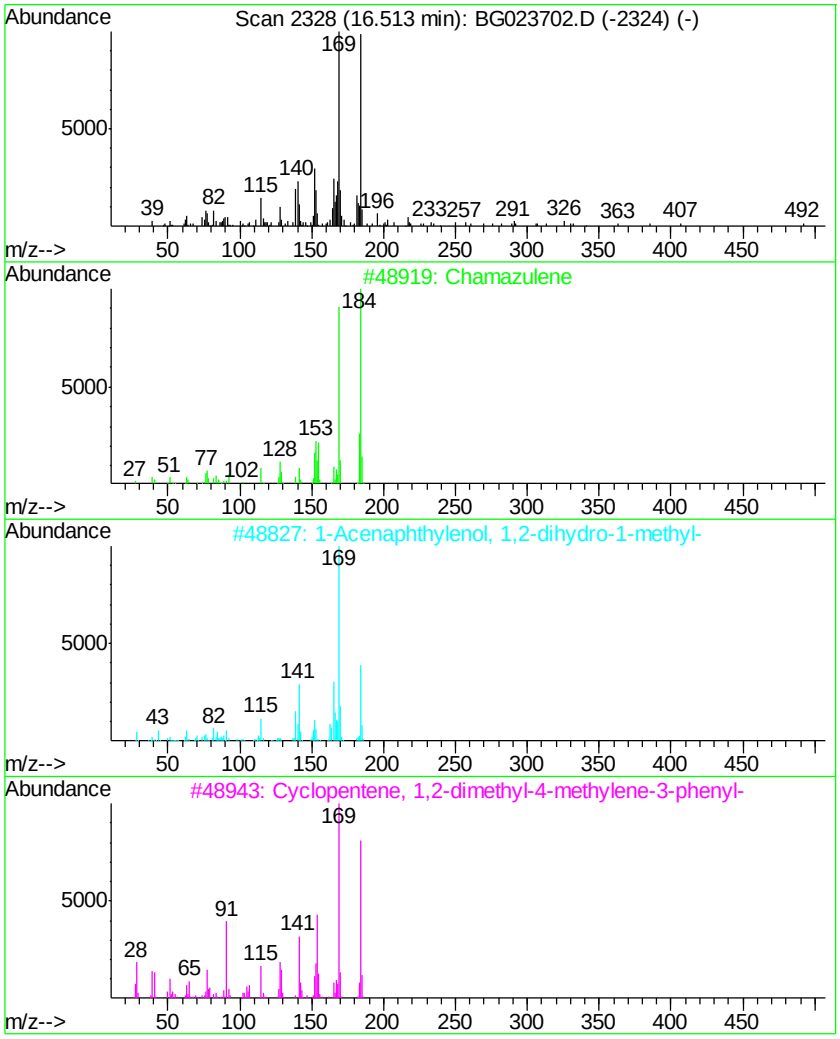
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

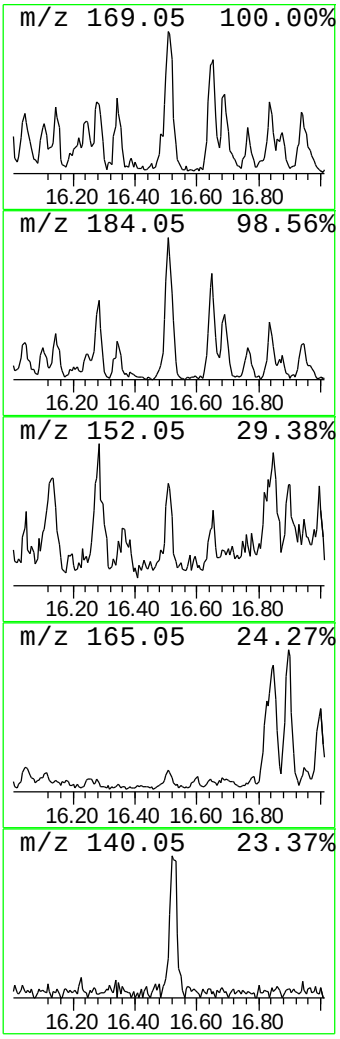
****

Peak Number 10 Chamazulene Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.51	3.02 ng/ul	274705	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chamazulene	184	C14H16	000529-05-5	81
2	1-Acenaphthylenol, 1,2-dihydro-1...	184	C13H12O	041002-74-8	70
3	Cyclopentene, 1,2-dimethyl-4-met...	184	C14H16	1000152-22-4	64
4	Naphthalene, 1,2,3,4-tetramethyl-	184	C14H16	003031-15-0	62
5	Naphthalene, 1-methyl-7-(1-methy...	184	C14H16	000490-65-3	62





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ClientSampleId : P002-SS003-2430-01

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Quant Title : SVOA CALIBRATION

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

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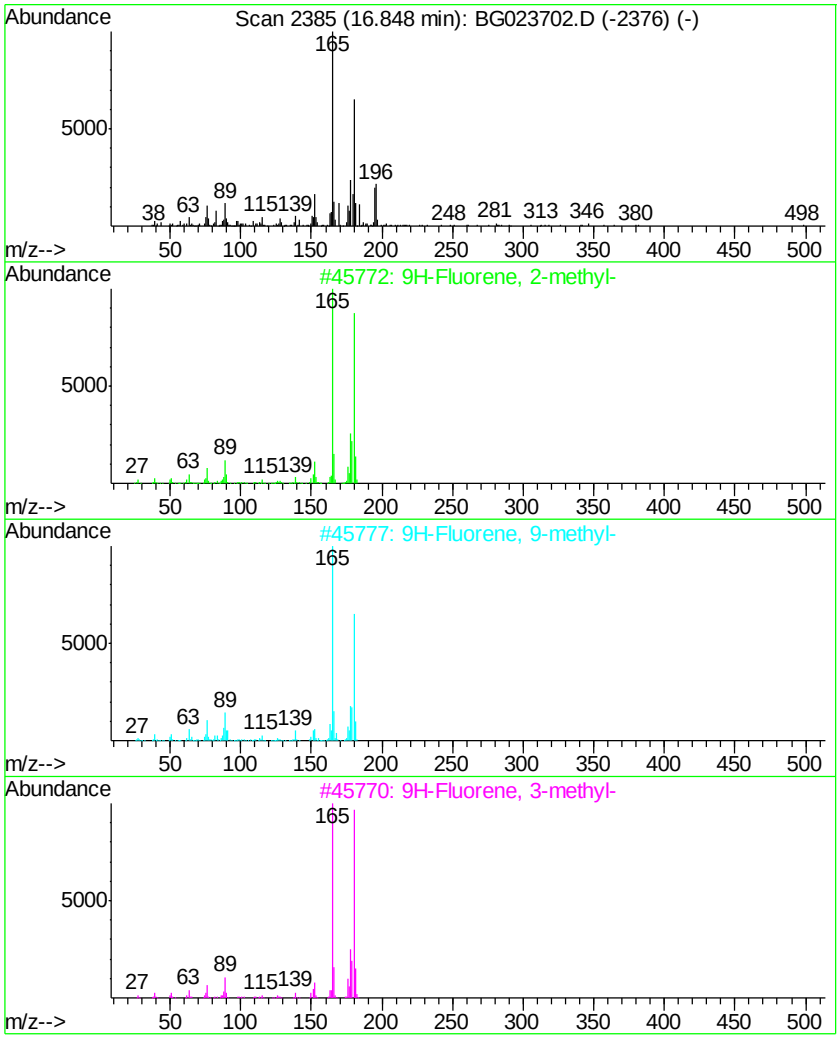
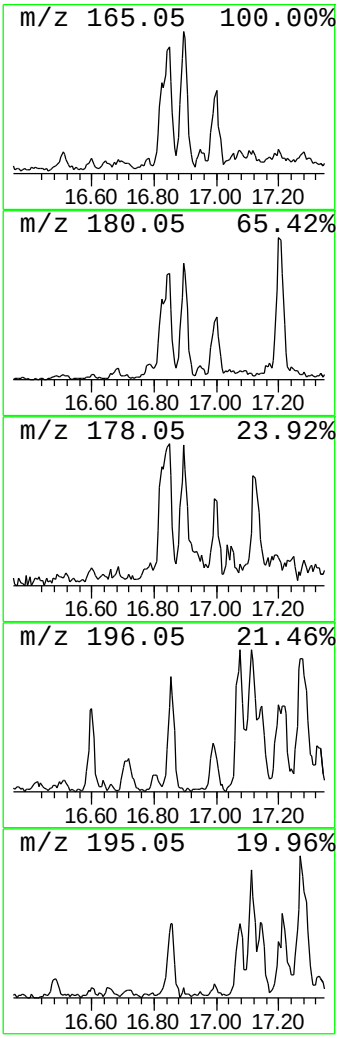
Peak Number 11 9H-Fluorene, 2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.85	5.27 ng/ul	479669	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	92
2	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	78
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	78
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	78
5	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	60





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Sample : H4385-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS003-2430-01

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 9H-Fluorene, 9-methyl- Concentration Rank 46

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.89	2.59 ng/ul	235159	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	90
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	90
3	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	90
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	81
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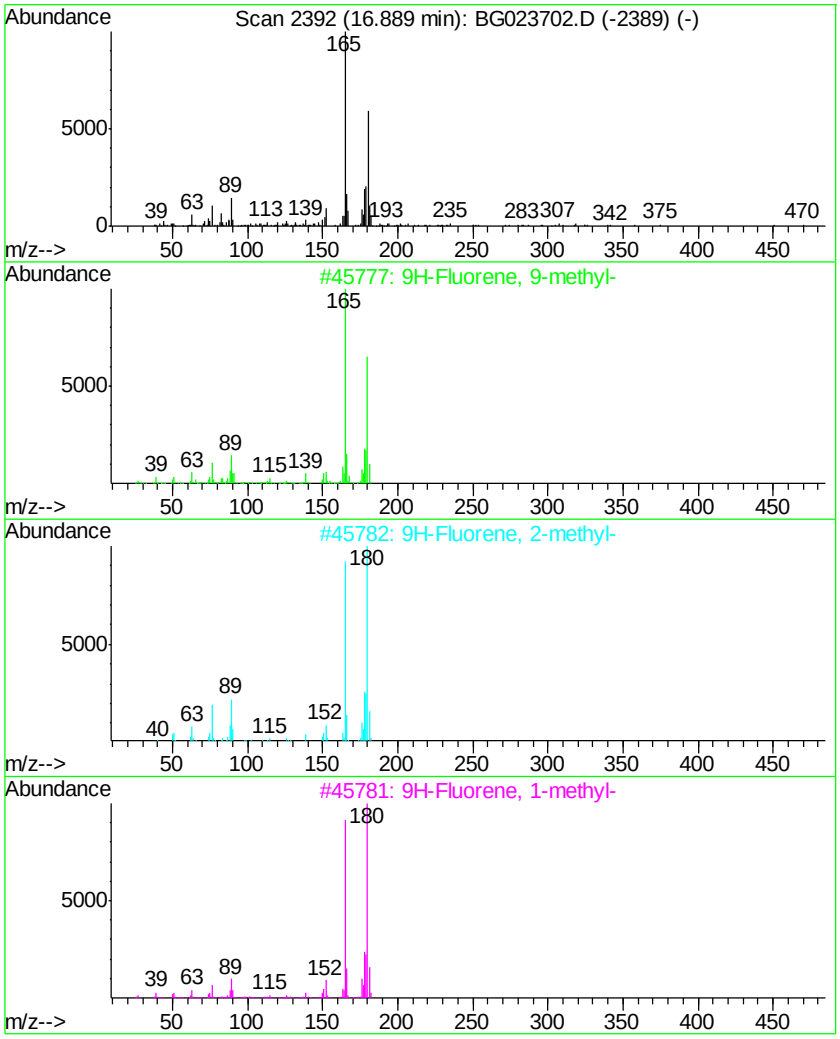

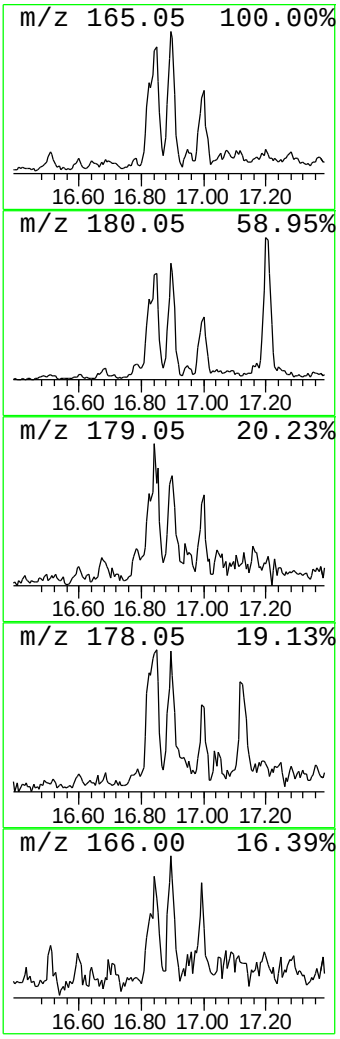

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Instrument : BNA_G
ClientSampleId : P002-SS003-2430-01

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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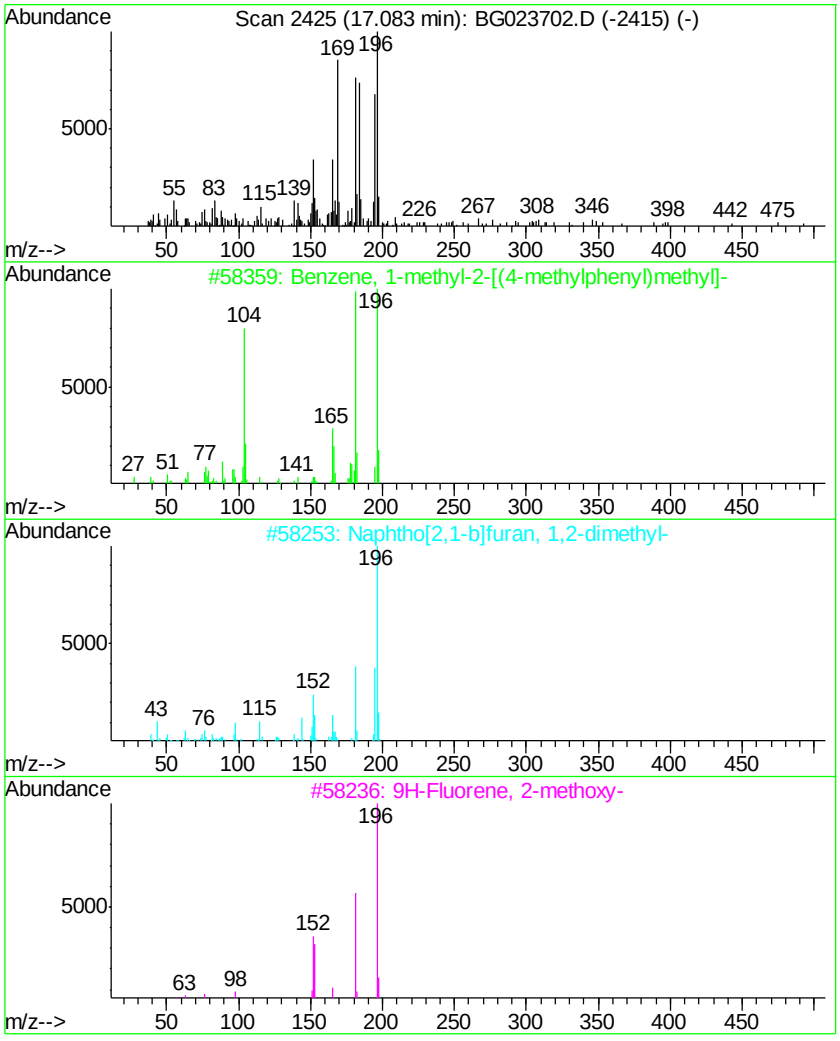
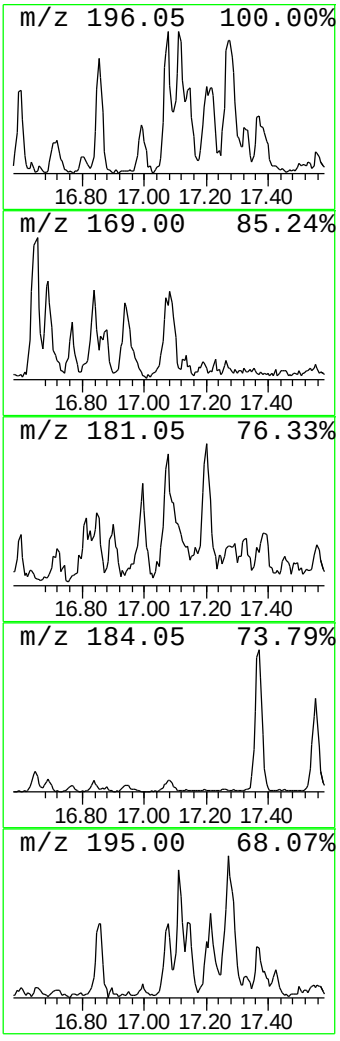
Peak Number 14 unknown-01 Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.08	3.08 ng/ul	280558	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-2-[(4-methylph...	196	C15H16	021895-17-0	43
2	Naphtho[2,1-b]furan, 1,2-dimethyl-	196	C14H12O	129812-23-3	43
3	9H-Fluorene, 2-methoxy-	196	C14H12O	002523-46-8	38
4	Methanone, diphenyl-, hydrazone	196	C13H12N2	005350-57-2	38
5	9H-Fluorene-2,7-diamine	196	C13H12N2	000525-64-4	38





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Sample : H4385-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS003-2430-01

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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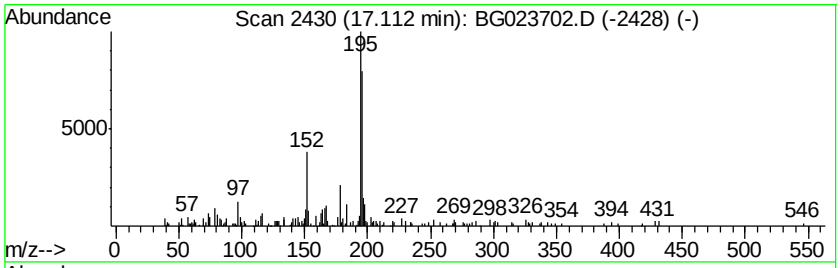
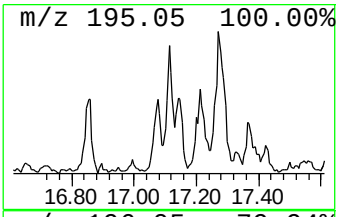
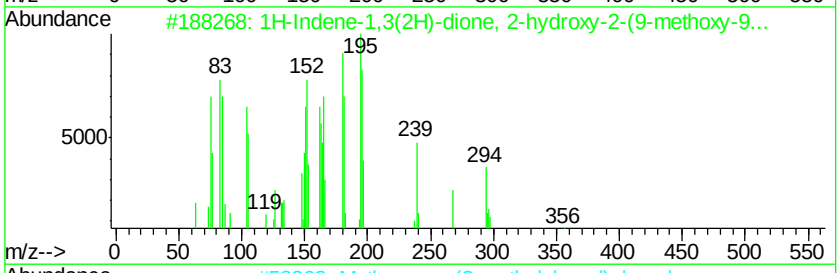
Peak Number 15 1H-Indene-1,3(2H)-dione, 2-... Concentration Rank 52

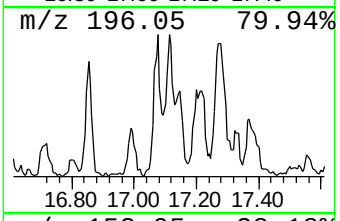
R.T.	EstConc	Area	Relative to ISTD	R.T.
17.11	2.42 ng/ul	220414	Phenanthrene-d10	17.55

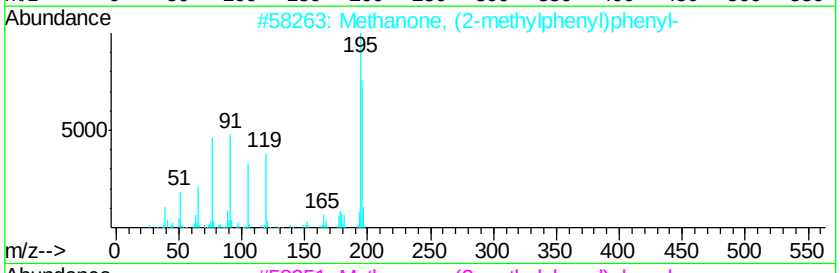
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene-1,3(2H)-dione, 2-hydro...	356	C23H16O4	050616-96-1	52
2	Methanone, (2-methylphenyl)phenyl-	196	C14H12O	000131-58-8	50
3	Methanone, (2-methylphenyl)phenyl-	196	C14H12O	000131-58-8	50
4	Benzo[b]benzofuran-2-carboxaldehyde	196	C13H8O2	1000351-56-0	50
5	Acetamide, N-[(4-hydroxy-3-metho...	195	C10H13NO3	053527-04-1	43

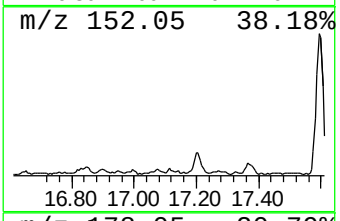


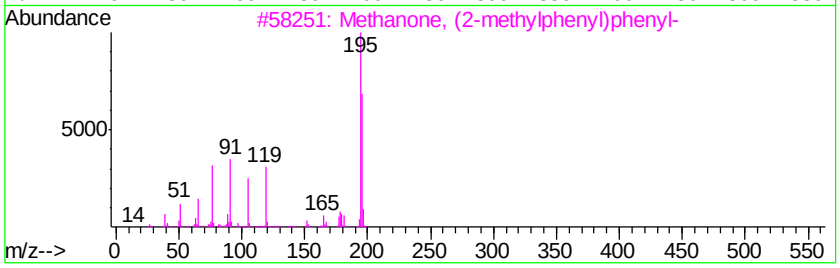


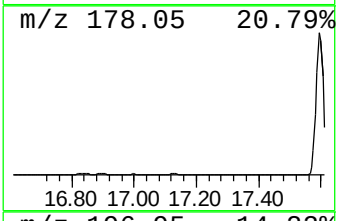


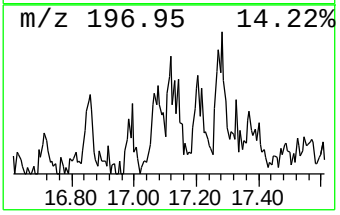












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Misc :
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Instrument : BNA_G
ClientSampleId : P002-SS003-2430-01

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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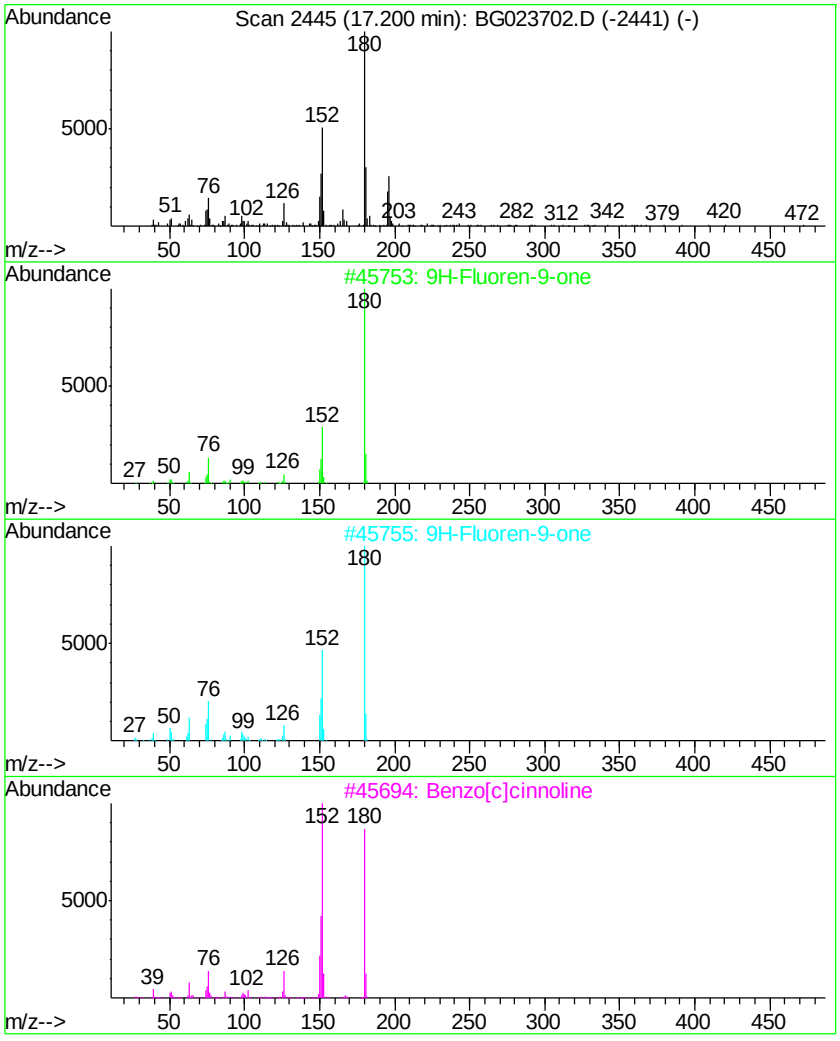
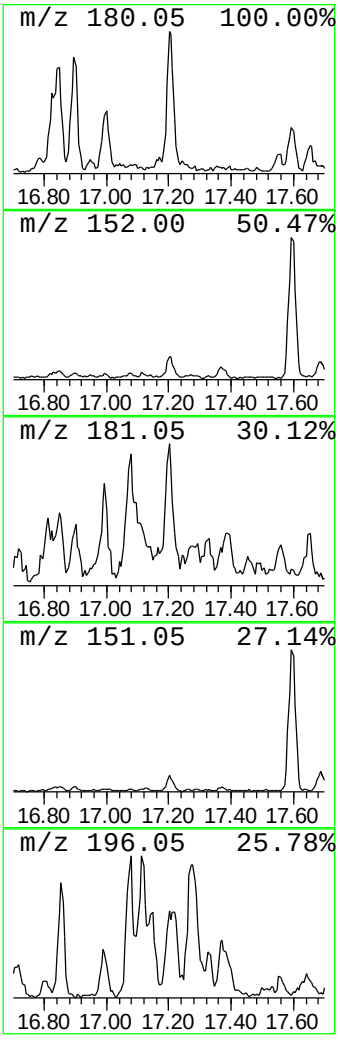
Peak Number 16 9H-Fluoren-9-one Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.20	3.98 ng/ul	361743	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	81
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	81
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	76
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	74
5	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	64





Library Search Compound Report

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Operator : UM/SJ
Sample : H4385-11
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Instrument : BNA_G
ClientSampleId : P002-SS003-2430-01

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Quant Title : SVOA CALIBRATION

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

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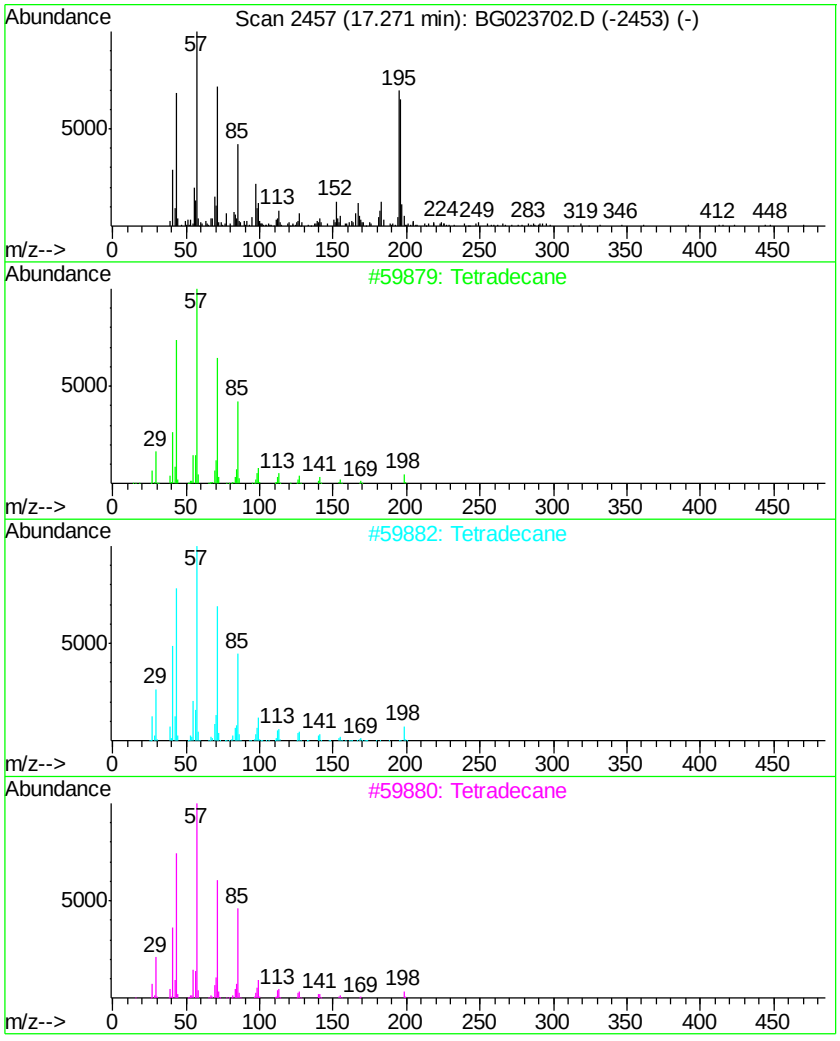
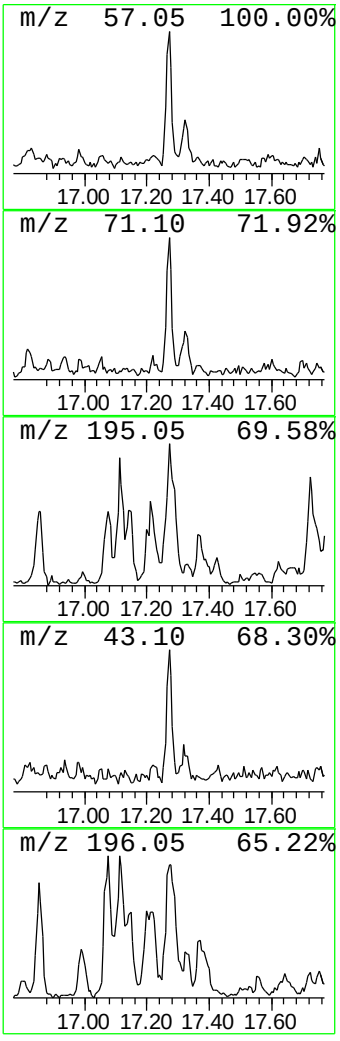
Peak Number 17 (DEL) Alkane: Straight-Chai... Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.27	3.57 ng/ul	324385	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane	198	C14H30	000629-59-4	70
2	Tetradecane	198	C14H30	000629-59-4	55
3	Tetradecane	198	C14H30	000629-59-4	55
4	Benzenamine, 3-[2-(4-pyridinyl)e...	196	C13H12N2	1000337-31-3	41
5	Pentadecane	212	C15H32	000629-62-9	38





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Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS003-2430-01

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Quant Title : SVOA CALIBRATION

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

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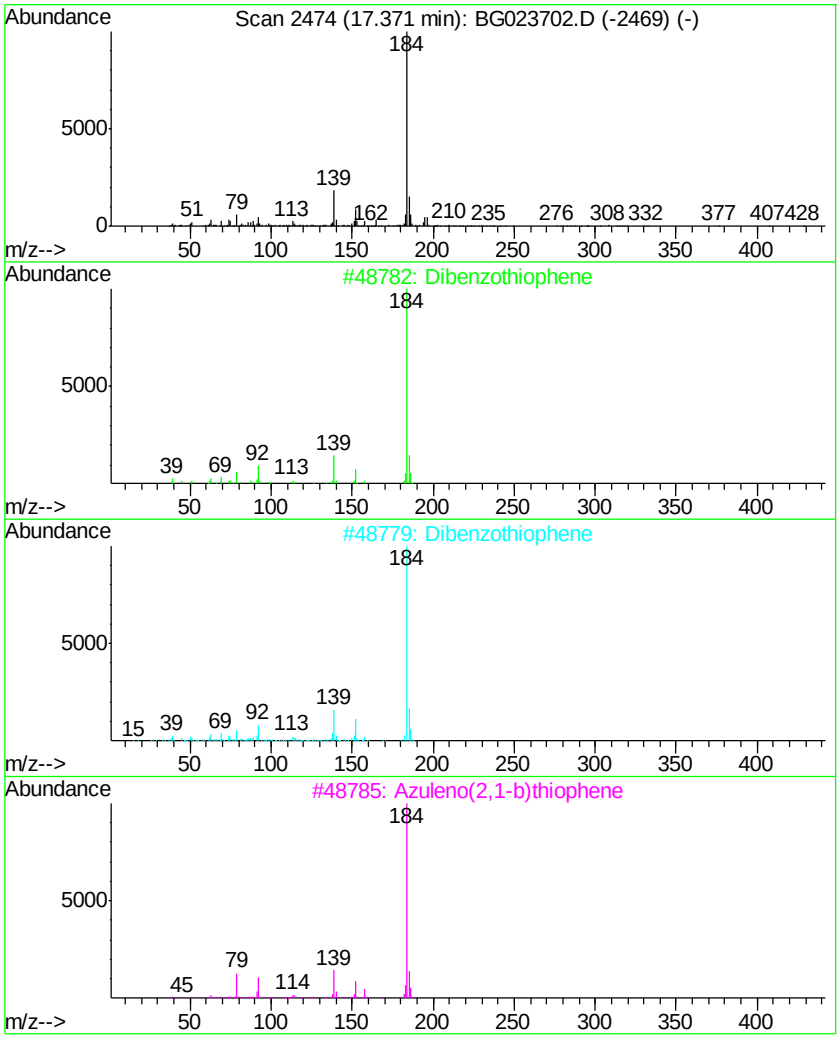
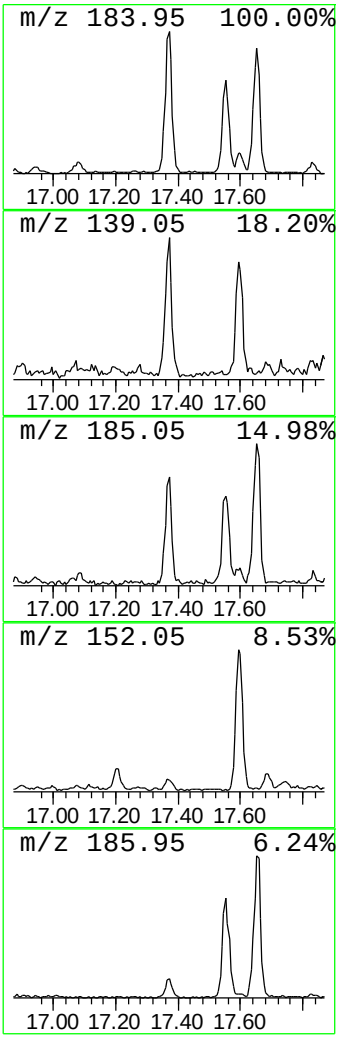
Peak Number 18 Dibenzothiophene Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.37	5.00 ng/ul	454590	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	95
2	Dibenzothiophene	184	C12H8S	000132-65-0	91
3	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90
4	Dibenzothiophene	184	C12H8S	000132-65-0	90
5	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	87





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ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
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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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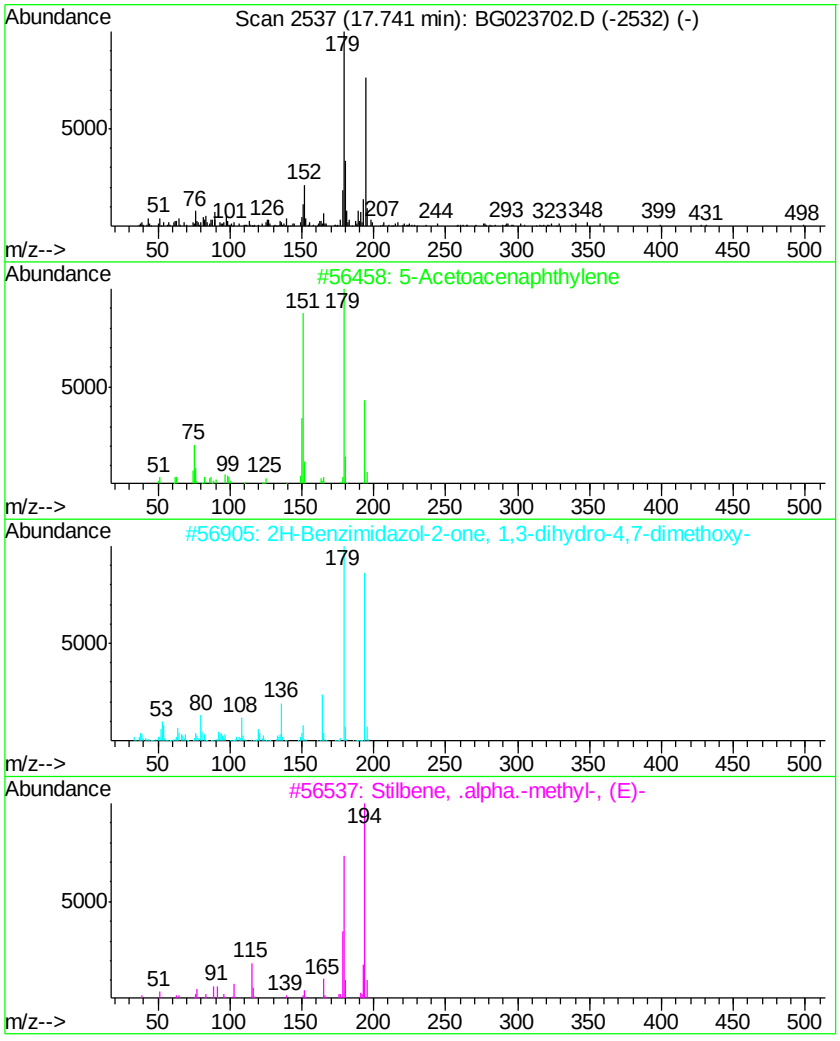
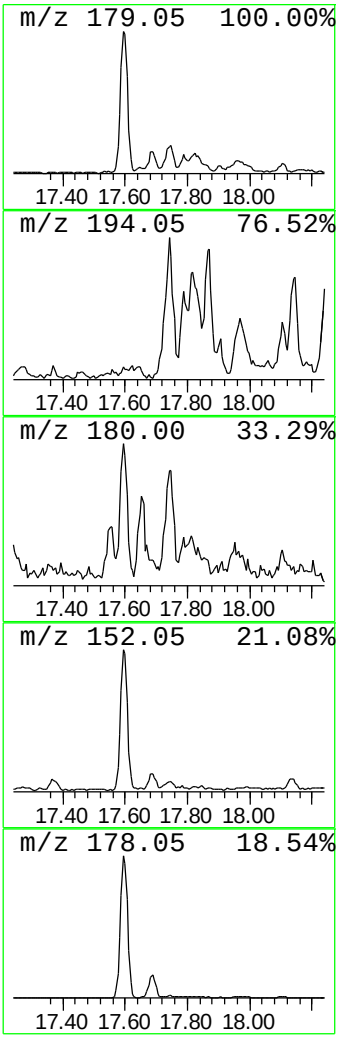
Peak Number 19 5-Acetoacenaphthylene Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.74	4.10 ng/ul	372778	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Acetoacenaphthylene	194	C14H10O	068399-52-0	59
2	2H-Benzimidazol-2-one, 1,3-dihyd...	194	C9H10N2O3	025808-72-4	58
3	Stilbene, .alpha.-methyl-, (E)-	194	C15H14	000833-81-8	49
4	p-Phenylbenzonitrile	179	C13H9N	002920-38-9	46
5	9,10-Dihydro-9-(1-methyl-2-oxobu...	265	C18H19NO	015539-57-8	45





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Data File : BG023702.D
Acq On : 14 Aug 2016 00:09
Operator : UM/SJ
Sample : H4385-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS003-2430-01

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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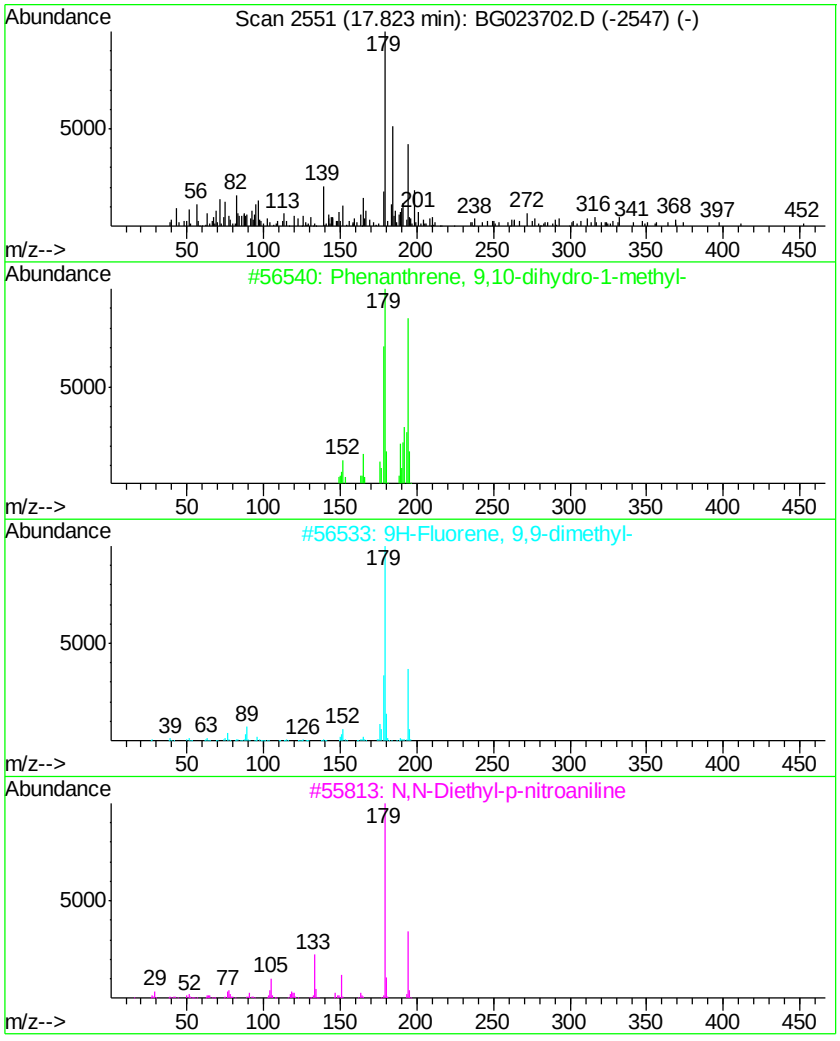
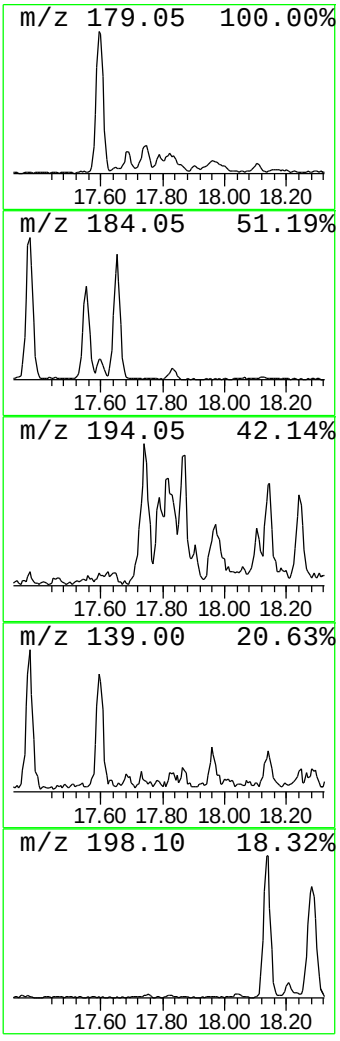
Peak Number 20 unknown-02 Concentration Rank 43

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.82	2.69 ng/ul	244784	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 9,10-dihydro-1-met...	194	C15H14	095676-48-5	47
2	9H-Fluorene, 9,9-dimethyl-	194	C15H14	004569-45-3	43
3	N,N-Diethyl-p-nitroaniline	194	C10H14N2O2	002216-15-1	43
4	9H-Fluorene, 1,9-dimethyl-	194	C15H14	017057-98-6	43
5	N,N-Diethyl-p-nitroaniline	194	C10H14N2O2	002216-15-1	43





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Acq On : 14 Aug 2016 00:09
Operator : UM/SJ
Sample : H4385-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS003-2430-01

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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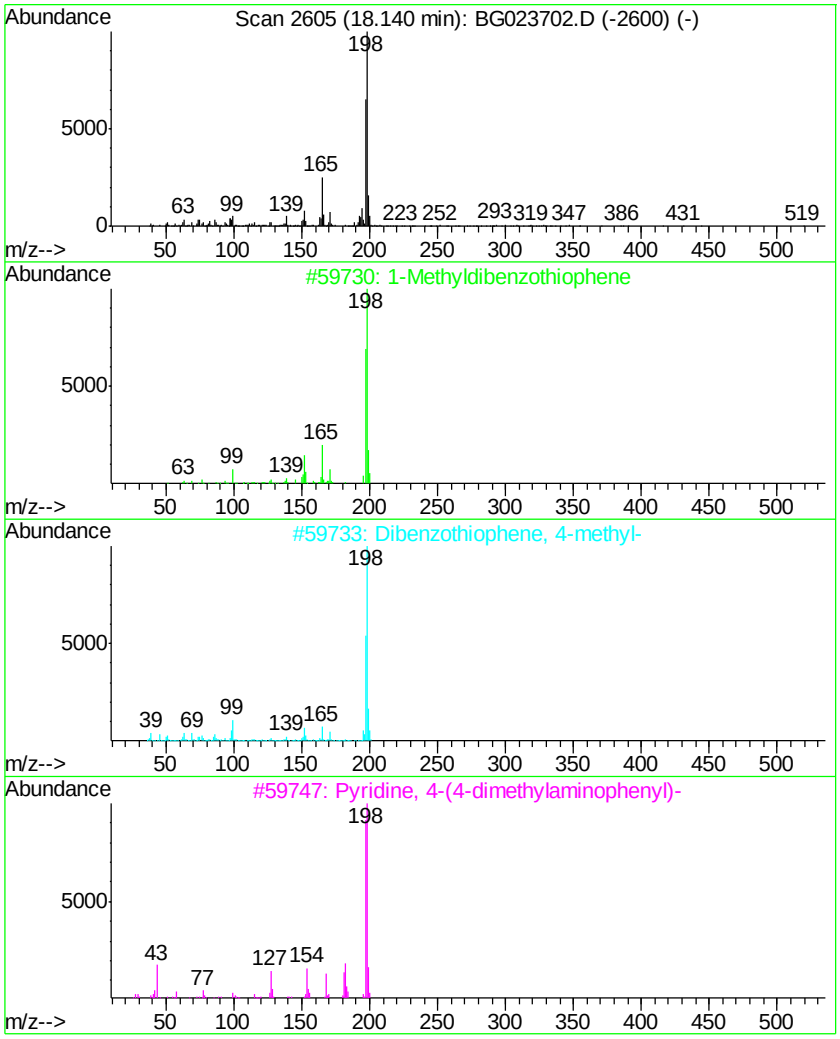
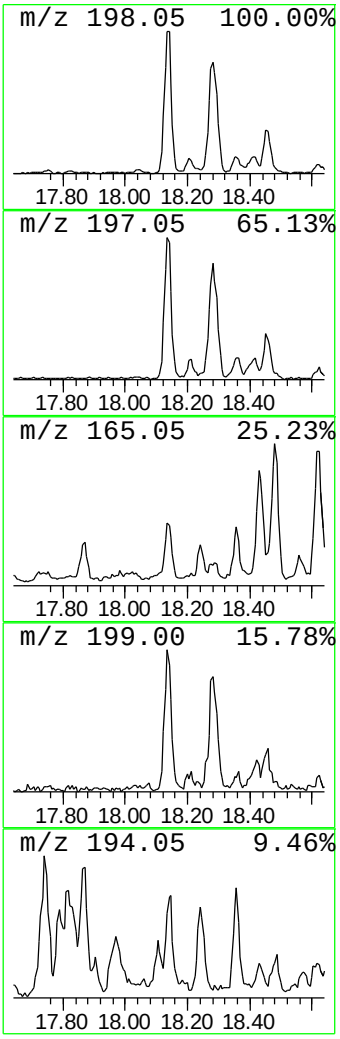
Peak Number 21 1-Methyldibenzothiophene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.14	7.08 ng/ul	643956	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	90
2	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	74
3	Pyridine, 4-(4-dimethylaminophen...	198	C13H14N2	001137-80-0	64
4	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	59
5	Benzene, 1,1'-(1-fluoro-1,2-ethe...	198	C14H11F	000671-19-2	59





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Operator : UM/SJ
Sample : H4385-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS003-2430-01

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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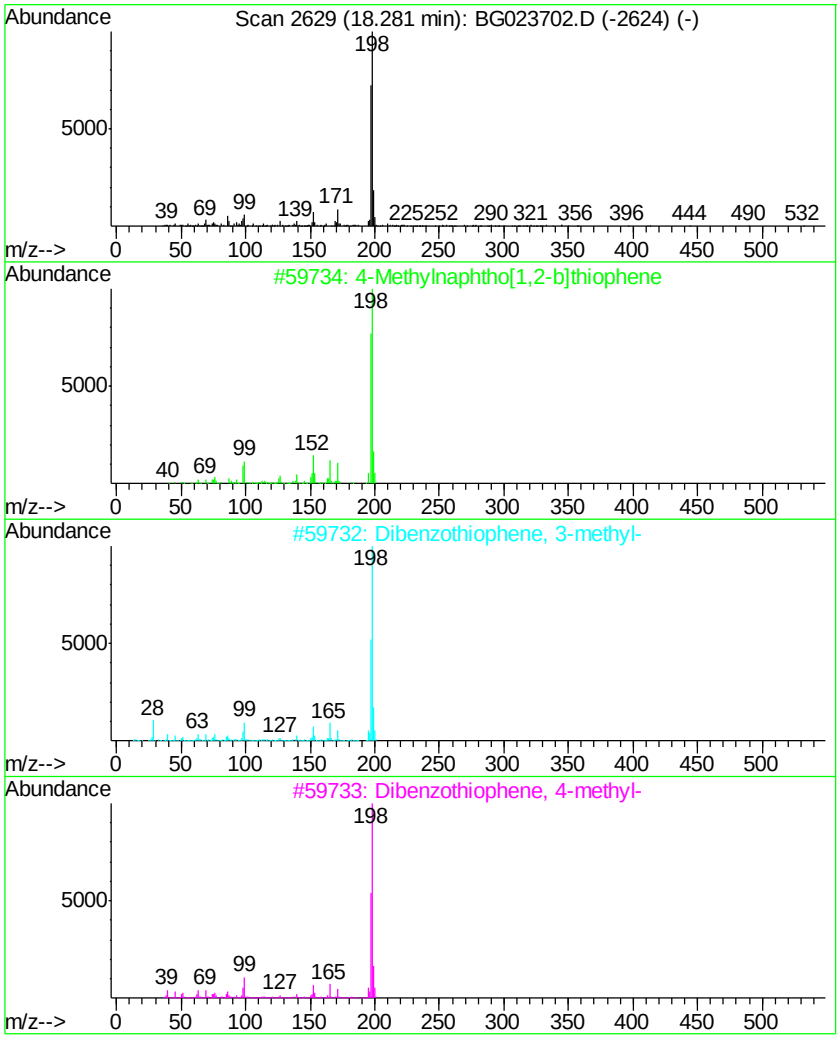
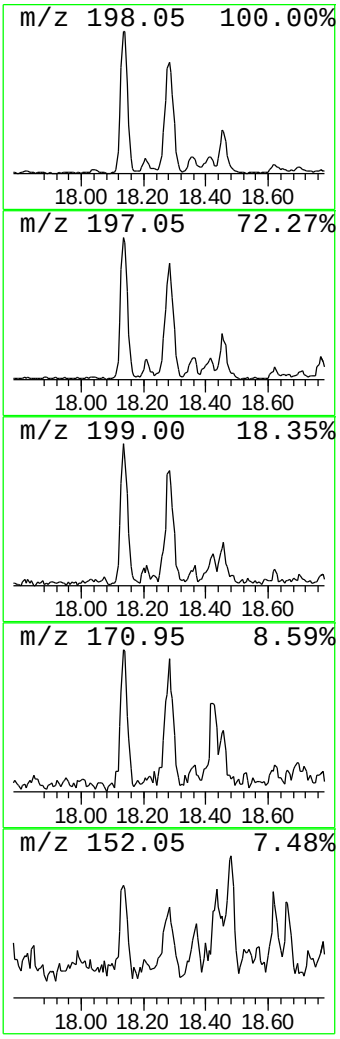
Peak Number 22 4-Methylnaphtho[1,2-b]thiop... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.28	5.52 ng/ul	502423	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	90
2	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	90
3	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	90
4	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	86
5	Tacrine	198	C13H14N2	000321-64-2	72





Library Search Compound Report

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Operator : UM/SJ
Sample : H4385-11
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ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS003-2430-01

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Quant Title : SVOA CALIBRATION

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

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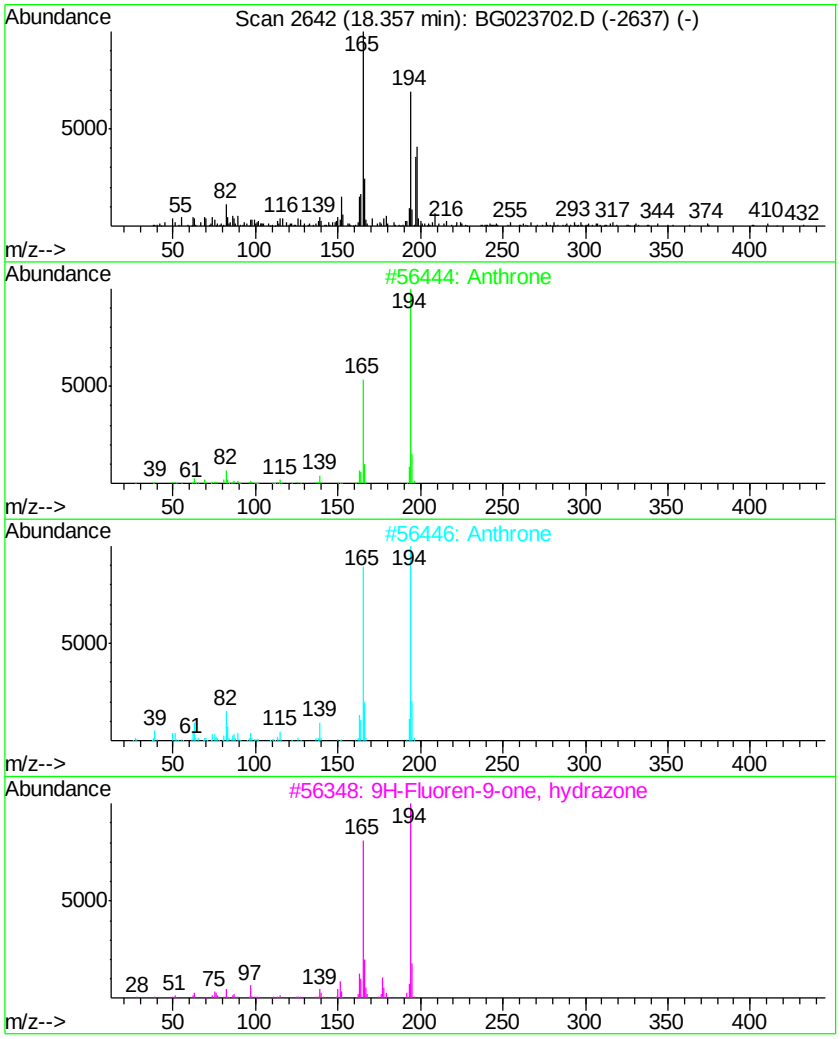
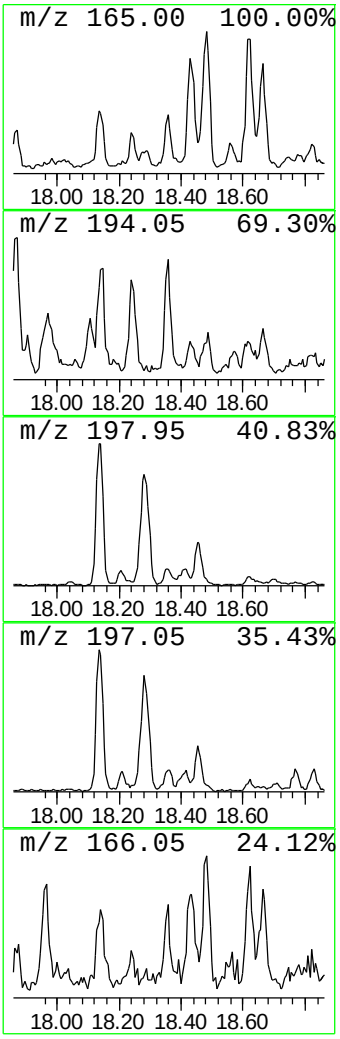
Peak Number 23 Anthrone Concentration Rank 47

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.36	2.55 ng/ul	231897	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthrone	194	C14H10O	000090-44-8	70
2	Anthrone	194	C14H10O	000090-44-8	62
3	9H-Fluoren-9-one, hydrazone	194	C13H10N2	013629-22-6	62
4	5H-Dibenzo[a,d]cycloheptane-10,1...	222	C15H10O2	052559-75-8	52
5	3-Phenanthrol	194	C14H10O	000605-87-8	52





Library Search Compound Report

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Operator : UM/SJ
Sample : H4385-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS003-2430-01

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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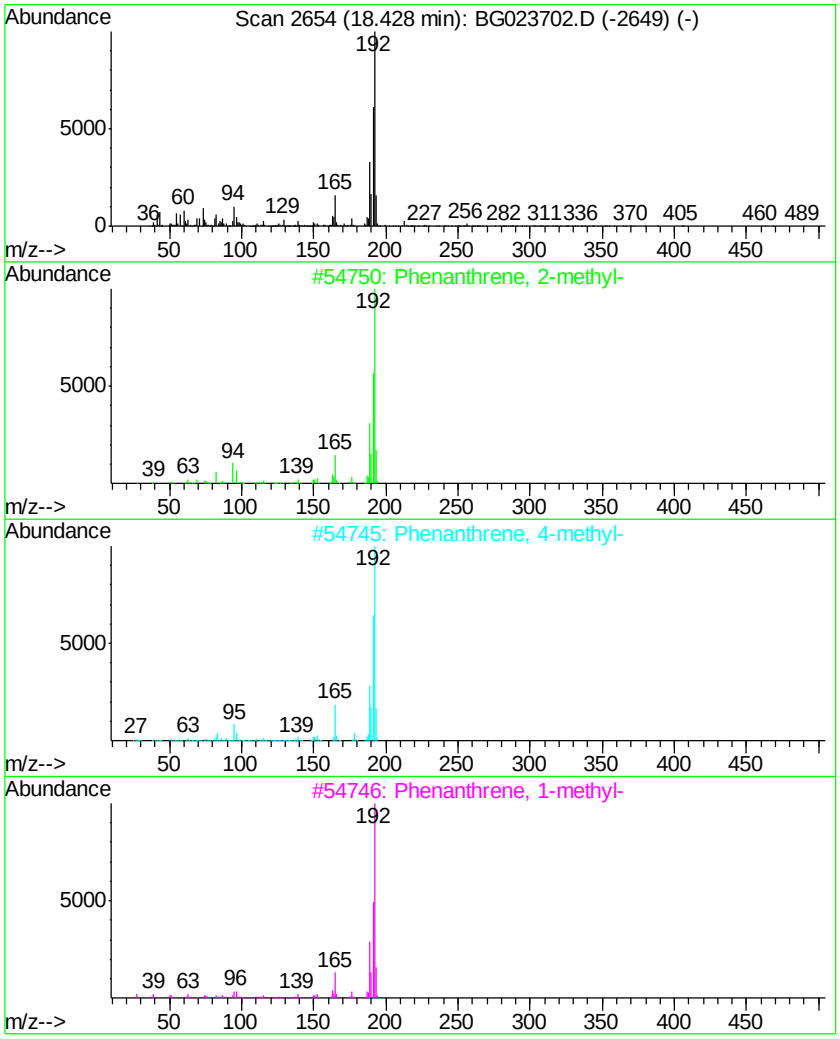
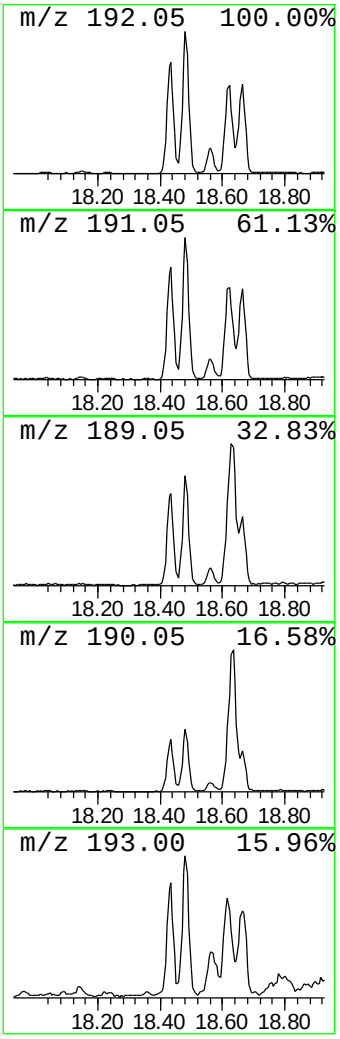
Peak Number 24 Phenanthrene, 2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.43	27.12 ng/ul	2466270	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
2	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91





Library Search Compound Report

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Operator : UM/SJ
Sample : H4385-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS003-2430-01

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 Phenanthrene, 1-methyl- Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.56	4.45 ng/ul	404389	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	90
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
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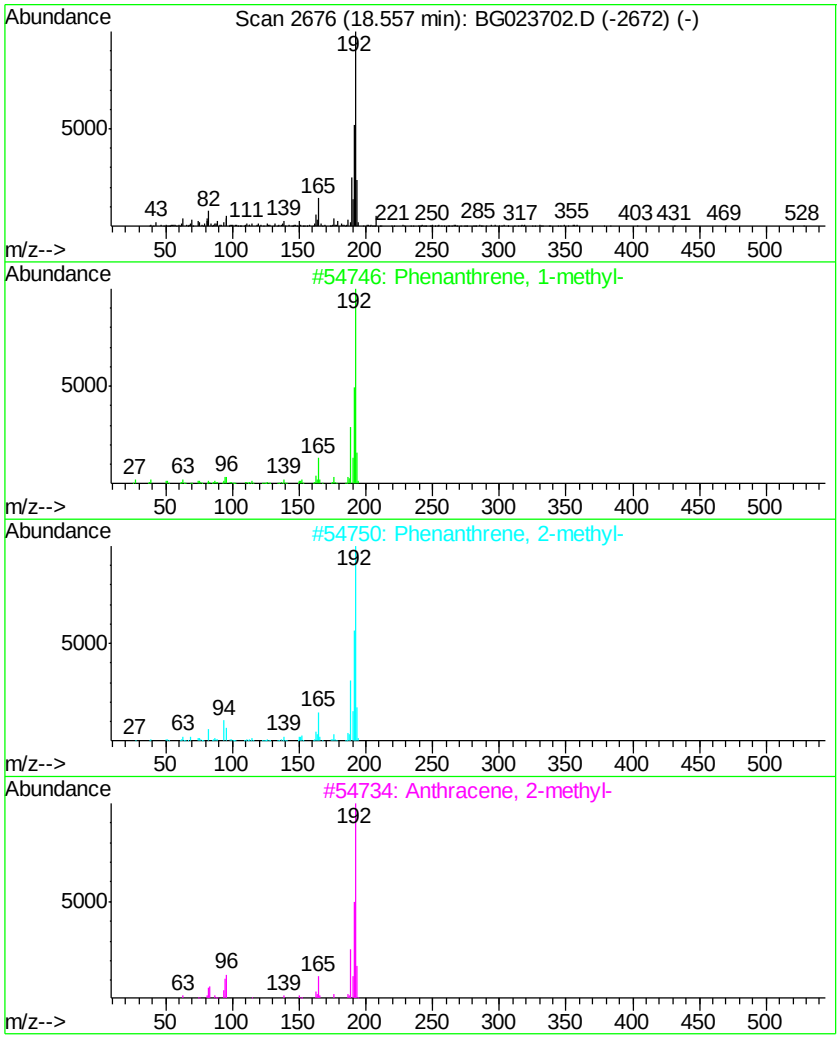
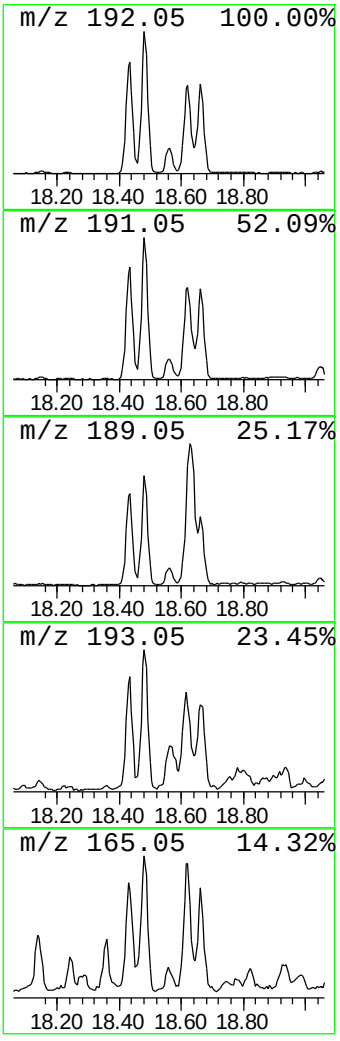
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	81





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Acq On : 14 Aug 2016 00:09
Operator : UM/SJ
Sample : H4385-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS003-2430-01

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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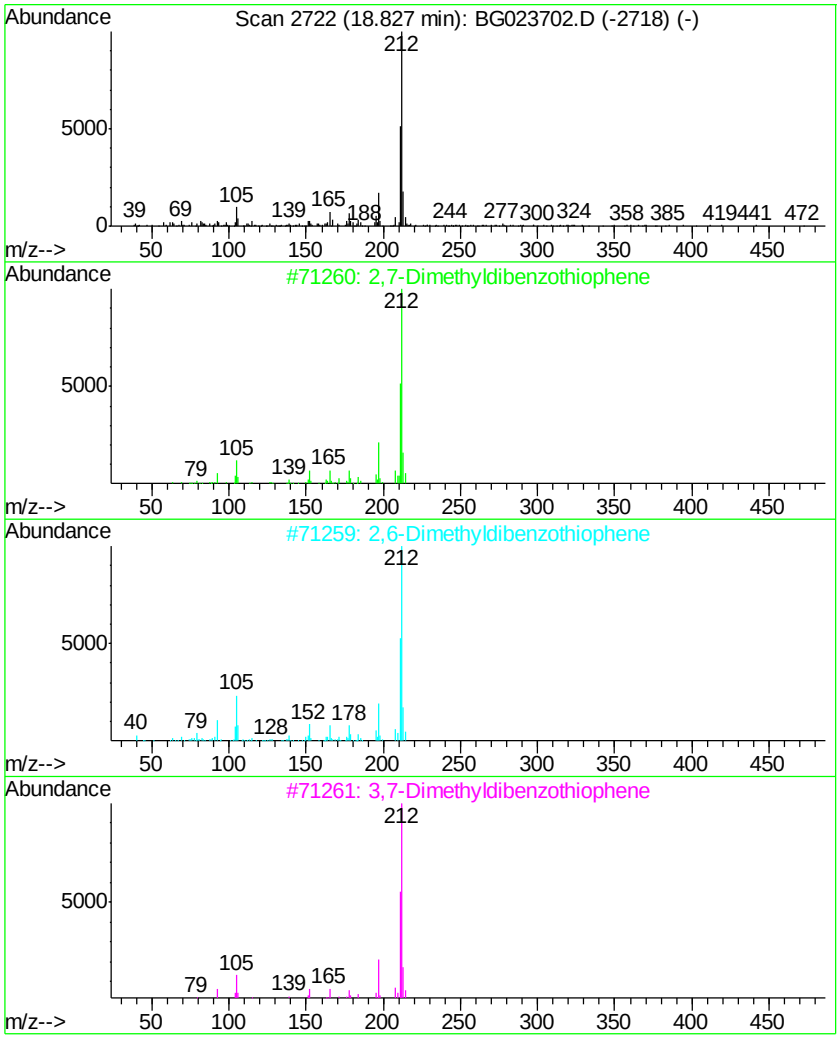
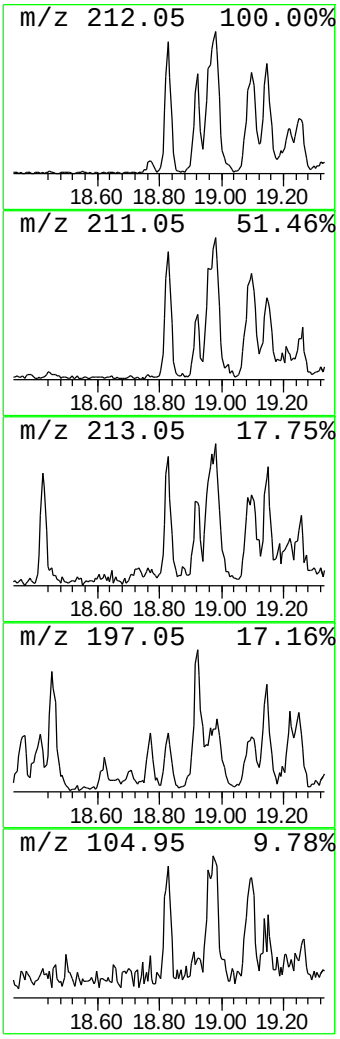
Peak Number 29 2,7-Dimethyldibenzothiophene Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.83	3.00 ng/ul	272450	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,7-Dimethyldibenzothiophene	212	C14H12S	031317-19-8	93
2	2,6-Dimethyldibenzothiophene	212	C14H12S	089816-75-1	93
3	3,7-Dimethyldibenzothiophene	212	C14H12S	001136-85-2	93
4	Dibenzothiophene, 4,6-dimethyl-	212	C14H12S	001207-12-1	90
5	2,8-Dimethyldibenzo(b,d)thiophene	212	C14H12S	001207-15-4	87





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Sample : H4385-11
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Instrument : BNA_G
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Quant Title : SVOA CALIBRATION

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

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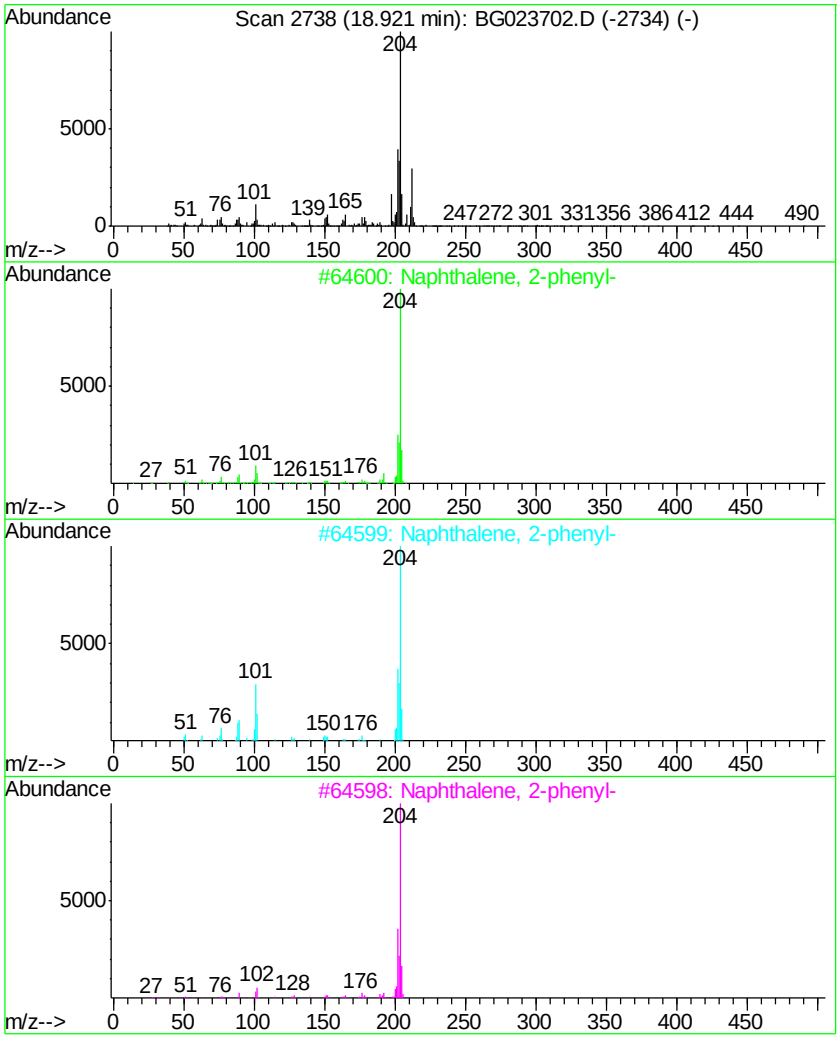
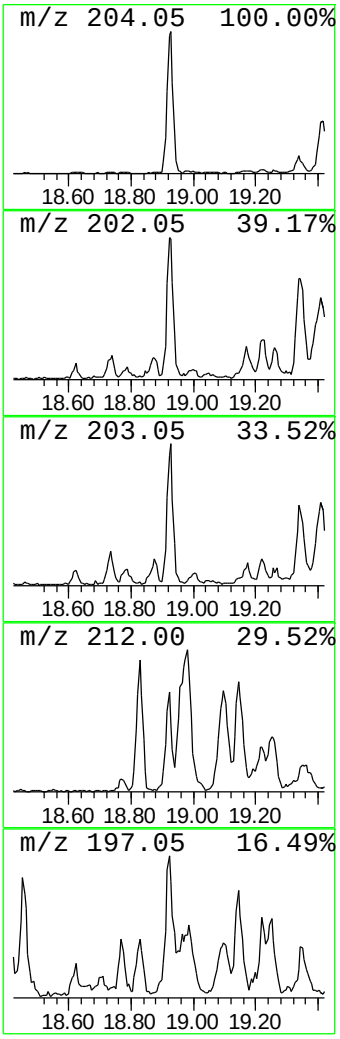
Peak Number 30 Naphthalene, 2-phenyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.92	10.21 ng/ul	928175	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	55
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	49
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	49
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	46
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	45





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Sample : H4385-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
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Quant Title : SVOA CALIBRATION

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

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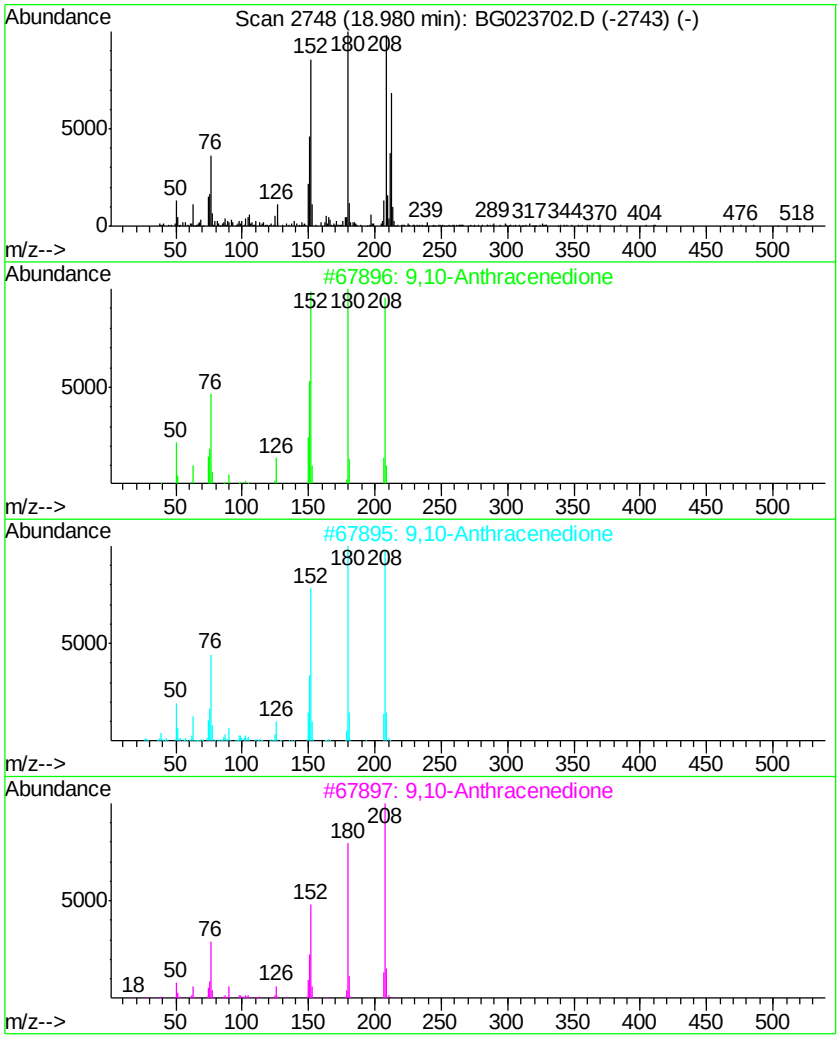
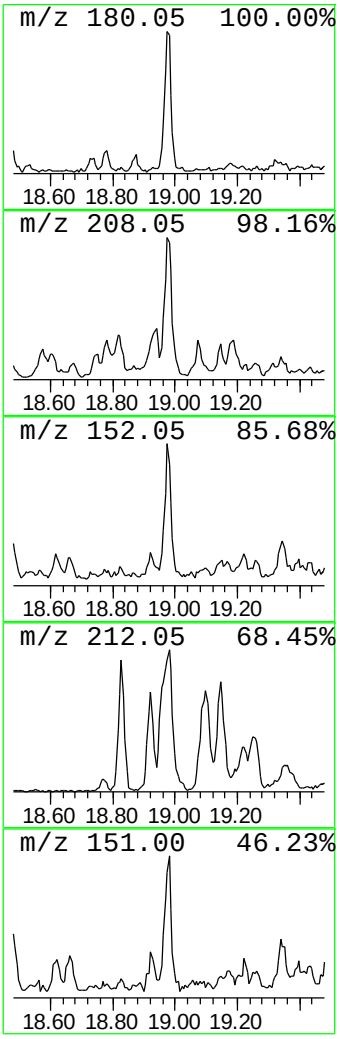
Peak Number 31 9,10-Anthracenedione Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.98	10.10 ng/ul	918348	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	93
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	93
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	90
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	78
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	60





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ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
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Quant Title : SVOA CALIBRATION

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

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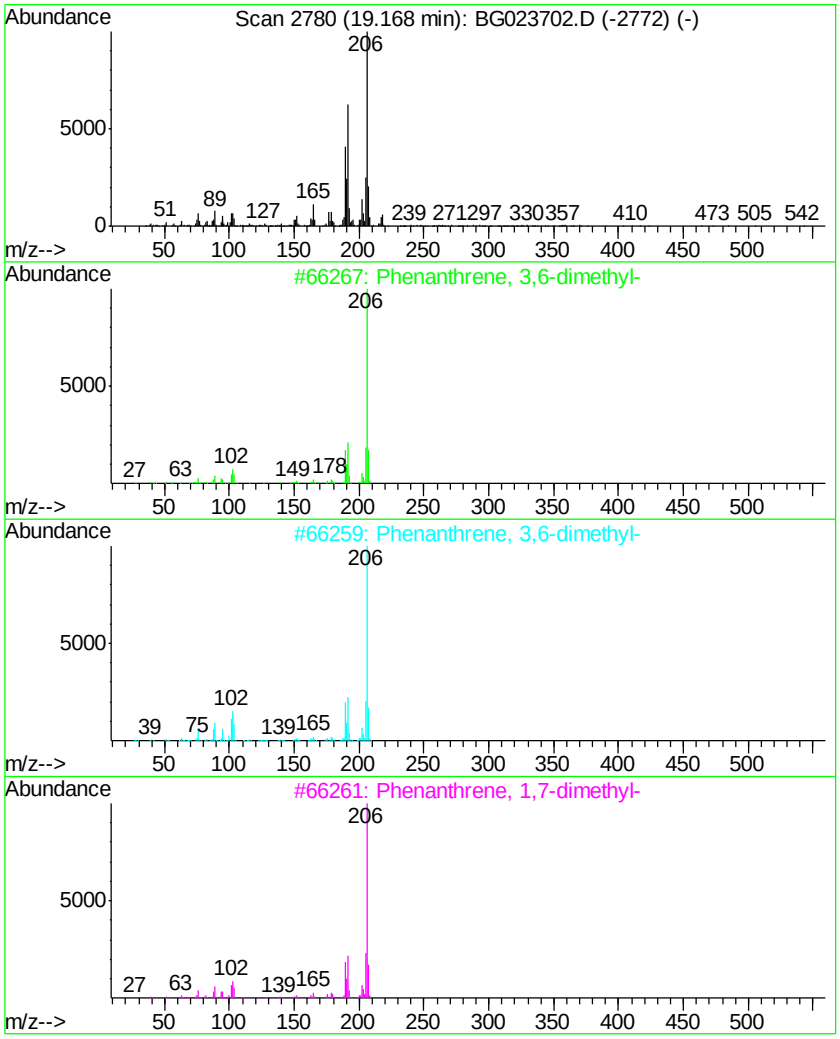
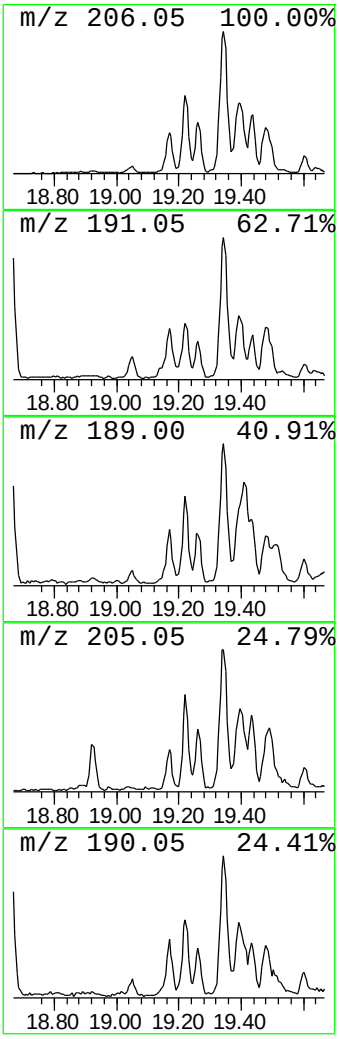
Peak Number 32 Phenanthrene, 3,6-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.17	10.44 ng/ul	949090	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	94
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	90
5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	87





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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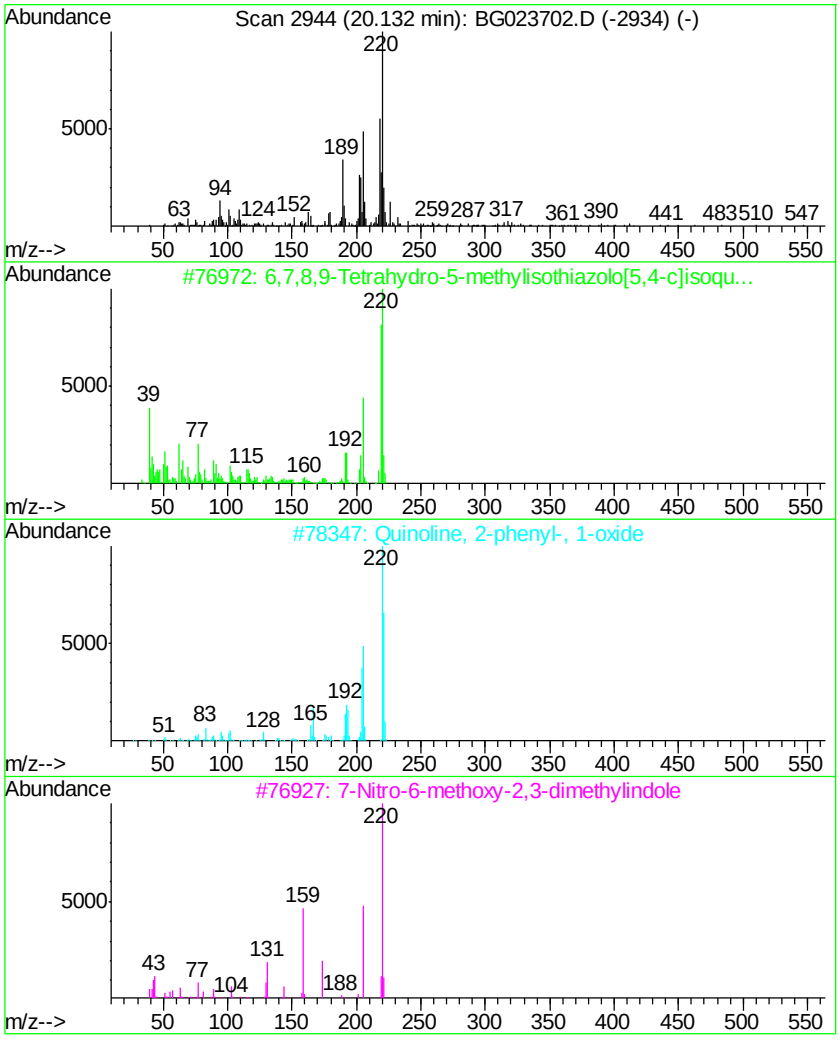
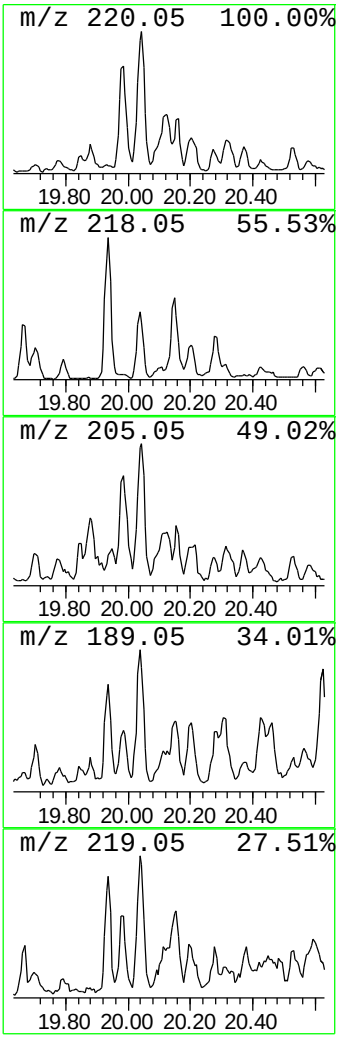
Peak Number 42 unknown-03 Concentration Rank 57

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.13	2.03 ng/ul	660514	Chrysene-d12	21.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6,7,8,9-Tetrahydro-5-methylisoth...	220	C11H12N2OS	339156-87-5	43
2	Quinoline, 2-phenyl-, 1-oxide	221	C15H11NO	005659-33-6	43
3	7-Nitro-6-methoxy-2,3-dimethylin...	220	C11H12N2O3	068289-71-4	43
4	1-(4-Methylphenyl)-4-phenylbuta-...	220	C17H16	037985-11-8	43
5	1-(Hydroxy-phenyl-methyl)-2-meth...	408	C27H36O3	108546-86-7	37





Tentatively Identified Compound (LSC) summary

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Data File : BG023702.D
Acq On : 14 Aug 2016 00:09
Operator : UM/SJ
Sample : H4385-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS003-2430-01

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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
Benzocycloheptatr...	12.83	3.4	ng/ul	210012	2	10.95	1255180	20.0
Naphthalene, 2,7-...	14.10	4.8	ng/ul	430135	3	14.79	1797100	20.0
Naphthalene, 2,3-...	14.34	2.2	ng/ul	196450	3	14.79	1797100	20.0
Naphthalene, 1,6,...	15.18	4.5	ng/ul	399562	3	14.79	1797100	20.0
(DEL) Alkane: Str...	15.60	2.7	ng/ul	239018	3	14.79	1797100	20.0
Dibenzofuran, 4-m...	16.13	2.6	ng/ul	237809	3	14.79	1797100	20.0
Chamazulene	16.51	3.0	ng/ul	274705	4	17.55	1818950	20.0
9H-Fluorene, 2-me...	16.85	5.3	ng/ul	479669	4	17.55	1818950	20.0
9H-Fluorene, 9-me...	16.89	2.6	ng/ul	235159	4	17.55	1818950	20.0
unknown-01	17.08	3.1	ng/ul	280558	4	17.55	1818950	20.0
1H-Indene-1,3(2H)...	17.11	2.4	ng/ul	220414	4	17.55	1818950	20.0
9H-Fluoren-9-one	17.20	4.0	ng/ul	361743	4	17.55	1818950	20.0
(DEL) Alkane: Str...	17.27	3.6	ng/ul	324385	4	17.55	1818950	20.0
Dibenzothiophene	17.37	5.0	ng/ul	454590	4	17.55	1818950	20.0
5-Acetoacenaphthy...	17.74	4.1	ng/ul	372778	4	17.55	1818950	20.0
unknown-02	17.82	2.7	ng/ul	244784	4	17.55	1818950	20.0
1-Methyldibenzoth...	18.14	7.1	ng/ul	643956	4	17.55	1818950	20.0
4-Methylnaphtho[1...	18.28	5.5	ng/ul	502423	4	17.55	1818950	20.0
Anthrone	18.36	2.5	ng/ul	231897	4	17.55	1818950	20.0
Phenanthrene, 2-m...	18.43	27.1	ng/ul	2466270	4	17.55	1818950	20.0
Phenanthrene, 1-m...	18.56	4.5	ng/ul	404389	4	17.55	1818950	20.0
2,7-Dimethyldiben...	18.83	3.0	ng/ul	272450	4	17.55	1818950	20.0
Naphthalene, 2-ph...	18.92	10.2	ng/ul	928175	4	17.55	1818950	20.0
9,10-Anthracenedione	18.98	10.1	ng/ul	918348	4	17.55	1818950	20.0
Phenanthrene, 3,6...	19.17	10.4	ng/ul	949090	4	17.55	1818950	20.0
unknown-03	20.13	2.0	ng/ul	660514	5	21.88	6511460	20.0