LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\
Data File : BG021953.D
Acq On : 19 May 2016 4:38
Operator : UM/SJ
Sample : H3096-06DL 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1DL

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-BG051816.M
Title : SVOA CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.161	897	906	918	rBV	84910	174954	5.73%	0.593%
2	10.599	1315	1321	1329	rVV2	14420	27929	0.91%	0.095%
3	10.981	1376	1386	1390	rBV	166014	340901	11.16%	1.156%
4	11.028	1390	1394	1404	rVB	116568	226540	7.41%	0.768%
5	12.626	1659	1666	1680	rBV	50255	103455	3.39%	0.351%
6	12.844	1695	1703	1712	rBV	37465	69601	2.28%	0.236%
7	13.960	1885	1893	1901	rBV3	17723	48491	1.59%	0.164%
8	14.107	1909	1918	1922	rBV3	30923	63723	2.09%	0.216%
9	14.177	1922	1930	1934	rVV2	49765	105926	3.47%	0.359%
10	14.224	1934	1938	1946	rVB	22070	37585	1.23%	0.127%
11	14.477	1973	1981	1992	rBV	59930	120489	3.94%	0.409%
12	14.782	2022	2033	2039	rBV2	296328	538624	17.63%	1.827%
13	14.847	2039	2044	2051	rVV	181102	314549	10.29%	1.067%
14	15.182	2093	2101	2108	rBV	110963	209499	6.86%	0.711%
15	15.770	2191	2201	2205	rVV2	78049	140370	4.59%	0.476%
16	15.828	2205	2211	2219	rVV	273063	473820	15.51%	1.607%
17	15.922	2219	2227	2228	rVV6	15303	35609	1.17%	0.121%
18	15.952	2228	2232	2234	rVV3	23813	40260	1.32%	0.137%
19	15.987	2234	2238	2243	rVV	32391	60928	1.99%	0.207%
20	16.075	2249	2253	2256	rVV2	17922	34457	1.13%	0.117%
21	16.116	2256	2260	2269	rVB2	42692	74123	2.43%	0.251%
22	16.263	2276	2285	2293	rVV	46887	110704	3.62%	0.375%
23	16.827	2370	2381	2386	rBV3	46734	128314	4.20%	0.435%
24	16.874	2386	2389	2394	rVV4	25014	41615	1.36%	0.141%
25	16.974	2401	2406	2411	rVV5	17433	32952	1.08%	0.112%
26	17.050	2411	2419	2422	rVV3	19686	45558	1.49%	0.155%
27	17.092	2422	2426	2435	rVV	24984	57477	1.88%	0.195%
28	17.180	2435	2441	2448	rVV2	76665	143063	4.68%	0.485%
29	17.256	2448	2454	2463	rVV4	30523	80861	2.65%	0.274%
30	17.344	2463	2469	2479	rVB	94481	163046	5.34%	0.553%
31	17.526	2494	2500	2503	rBV	351347	610714	19.99%	2.071%
32	17.573	2503	2508	2514	rVV	1833445	3055517	100.00%	10.364%
33	17.626	2514	2517	2519	rVV	125456	191055	6.25%	0.648%
34	17.661	2519	2523	2529	rVV	424357	691142	22.62%	2.344%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\
Data File : BG021953.D
Acq On : 19 May 2016 4:38
Operator : UM/SJ
Sample : H3096-06DL 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1DL

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-BG051816.M
Title : SVOA CALIBRATION

35	17.708	2529	2531	2542	rVB2	34585	72288	2.37%	0.245%
36	17.926	2558	2568	2583	rBV	241521	538568	17.63%	1.827%
37	18.043	2583	2588	2594	rVV3	23323	49580	1.62%	0.168%
38	18.108	2594	2599	2606	rVB4	25907	52103	1.71%	0.177%
39	18.243	2619	2622	2631	rVB3	15103	29606	0.97%	0.100%
40	18.396	2640	2648	2652	rBV	148444	258785	8.47%	0.878%
41	18.449	2652	2657	2664	rVB	211290	356829	11.68%	1.210%
42	18.525	2664	2670	2675	rBV2	84135	131321	4.30%	0.445%
43	18.596	2675	2682	2686	rBV2	259608	514511	16.84%	1.745%
44	18.696	2694	2699	2703	rBV3	20798	36087	1.18%	0.122%
45	18.743	2703	2707	2711	rVV2	24165	37838	1.24%	0.128%
46	18.825	2718	2721	2727	rVV4	15431	28982	0.95%	0.098%
47	18.889	2727	2732	2736	rVV	109994	170680	5.59%	0.579%
48	18.936	2736	2740	2749	rVV	82767	138221	4.52%	0.469%
49	19.136	2764	2774	2777	rBV4	37495	72157	2.36%	0.245%
50	19.183	2777	2782	2785	rVV2	22188	30338	0.99%	0.103%
51	19.218	2785	2788	2794	rVB3	27541	34587	1.13%	0.117%
52	19.301	2796	2802	2808	rBV3	71481	151383	4.95%	0.513%
53	19.365	2808	2813	2817	rBV5	26078	48470	1.59%	0.164%
54	19.448	2822	2827	2835	rVB3	60844	120237	3.94%	0.408%
55	19.571	2840	2848	2854	rBV	1880672	2967577	97.12%	10.066%
56	19.665	2860	2864	2869	rVB2	48687	73340	2.40%	0.249%
57	19.753	2875	2879	2884	rVV6	20289	38747	1.27%	0.131%
58	19.812	2884	2889	2898	rVB3	54137	123074	4.03%	0.417%
59	19.935	2898	2910	2916	rBV	1313719	2744886	89.83%	9.310%
60	19.994	2916	2920	2927	rVB2	72348	121967	3.99%	0.414%
61	20.106	2927	2939	2944	rBV	67117	138441	4.53%	0.470%
62	20.170	2944	2950	2956	rVB	78818	141173	4.62%	0.479%
63	20.247	2956	2963	2969	rBV3	94385	241145	7.89%	0.818%
64	20.305	2969	2973	2979	rVB	42195	70644	2.31%	0.240%
65	20.382	2979	2986	2987	rBV3	66310	116529	3.81%	0.395%
66	20.417	2987	2992	2997	rVV	199070	357834	11.71%	1.214%
67	20.517	3004	3009	3013	rVV	152370	245178	8.02%	0.832%
68	20.576	3013	3019	3022	rVV2	115316	246984	8.08%	0.838%
69	20.611	3022	3025	3029	rVV2	63450	100276	3.28%	0.340%
70	20.652	3029	3032	3036	rVV2	34047	49419	1.62%	0.168%
71	20.717	3038	3043	3046	rVV2	57008	92249	3.02%	0.313%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\
Data File : BG021953.D
Acq On : 19 May 2016 4:38
Operator : UM/SJ
Sample : H3096-06DL 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1DL

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-BG051816.M
Title : SVOA CALIBRATION

72	20.758	3046	3050	3060	rVB3	60777	117946	3.86%	0.400%
73	20.975	3083	3087	3089	rBV5	18831	27926	0.91%	0.095%
74	21.016	3090	3094	3096	rVV5	18218	32317	1.06%	0.110%
75	21.140	3111	3115	3118	rBV4	23080	39300	1.29%	0.133%
76	21.187	3118	3123	3129	rVB	107779	189425	6.20%	0.643%
77	21.375	3147	3155	3159	rBV2	127714	292432	9.57%	0.992%
78	21.422	3159	3163	3167	rVV	105304	191508	6.27%	0.650%
79	21.475	3167	3172	3177	rVV2	116878	250893	8.21%	0.851%
80	21.528	3177	3181	3191	rVB2	120504	261301	8.55%	0.886%
81	21.663	3197	3204	3210	rBV2	39597	89531	2.93%	0.304%
82	21.798	3214	3227	3233	rVV3	767728	2175071	71.19%	7.378%
83	21.857	3233	3237	3250	rVB	510779	993182	32.50%	3.369%
84	22.015	3259	3264	3272	rBV	87328	156996	5.14%	0.533%
85	22.097	3272	3278	3281	rVV6	24104	56455	1.85%	0.191%
86	22.156	3285	3288	3294	rVB2	49672	86461	2.83%	0.293%
87	22.227	3294	3300	3306	rBV3	85177	175118	5.73%	0.594%
88	22.556	3350	3356	3362	rVV2	68541	145061	4.75%	0.492%
89	22.632	3365	3369	3376	rVB	42568	82942	2.71%	0.281%
90	22.838	3400	3404	3408	rBV4	34735	64721	2.12%	0.220%
91	22.985	3423	3429	3436	rVB5	37340	87332	2.86%	0.296%
92	24.083	3605	3616	3623	rBV	352092	1255272	41.08%	4.258%
93	24.342	3653	3660	3667	rBV	62596	152224	4.98%	0.516%
94	24.553	3690	3696	3698	rBV3	18843	40252	1.32%	0.137%
95	24.829	3733	3743	3753	rBV2	173914	551127	18.04%	1.869%
96	24.976	3760	3768	3782	rVB	260215	823031	26.94%	2.792%
97	25.135	3784	3795	3803	rBV2	195963	652567	21.36%	2.213%
98	28.942	4430	4443	4468	rVB4	116637	673476	22.04%	2.284%
99	29.424	4513	4525	4526	rBV4	28616	69041	2.26%	0.234%
100	30.129	4631	4645	4659	rBV4	79494	413016	13.52%	1.401%

Sum of corrected areas: 29481809

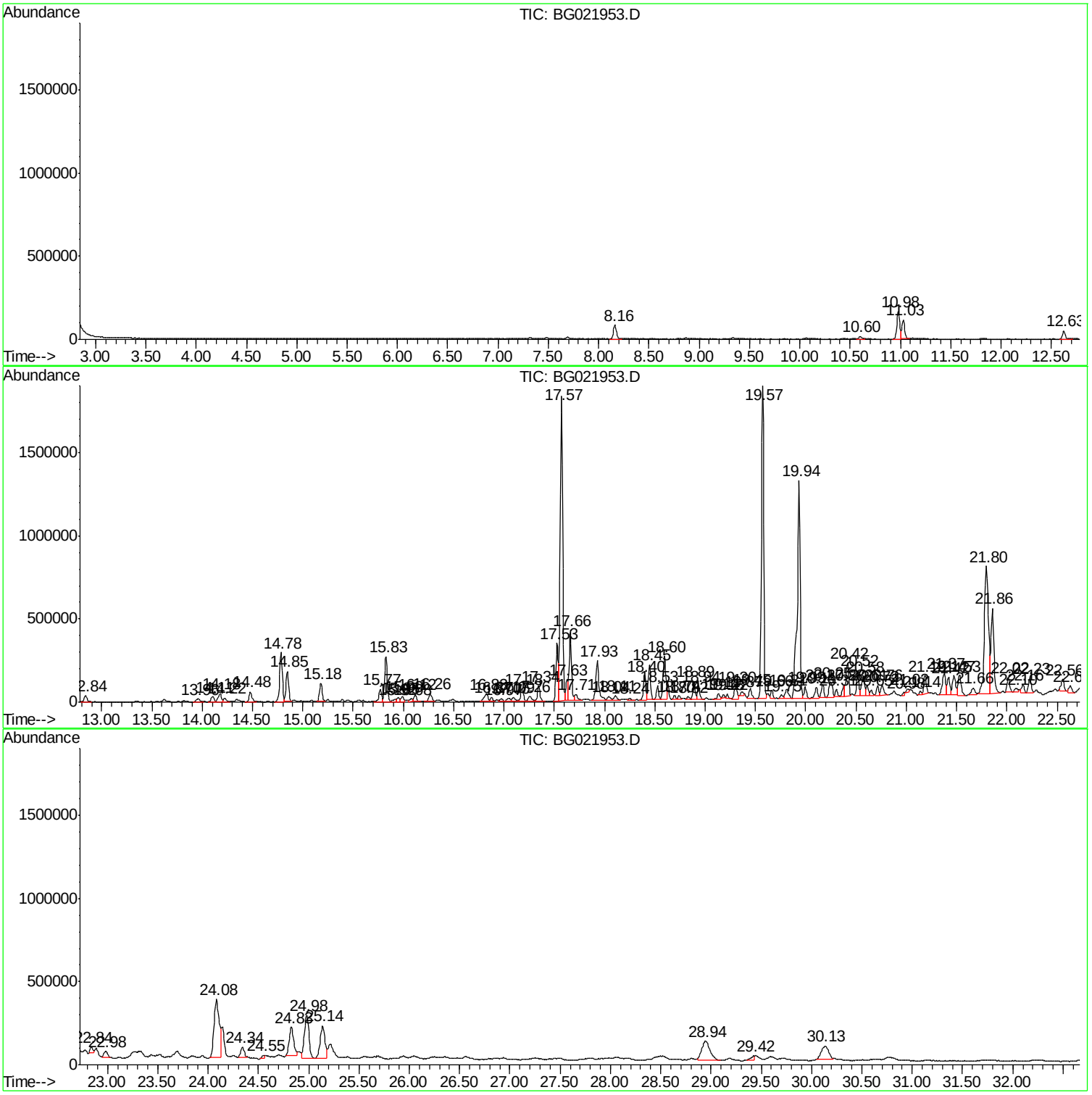
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\
Data File : BG021953.D
Acq On : 19 May 2016 4:38
Operator : UM/SJ
Sample : H3096-06DL 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\
Data File : BG021953.D
Acq On : 19 May 2016 4:38
Operator : UM/SJ
Sample : H3096-06DL 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

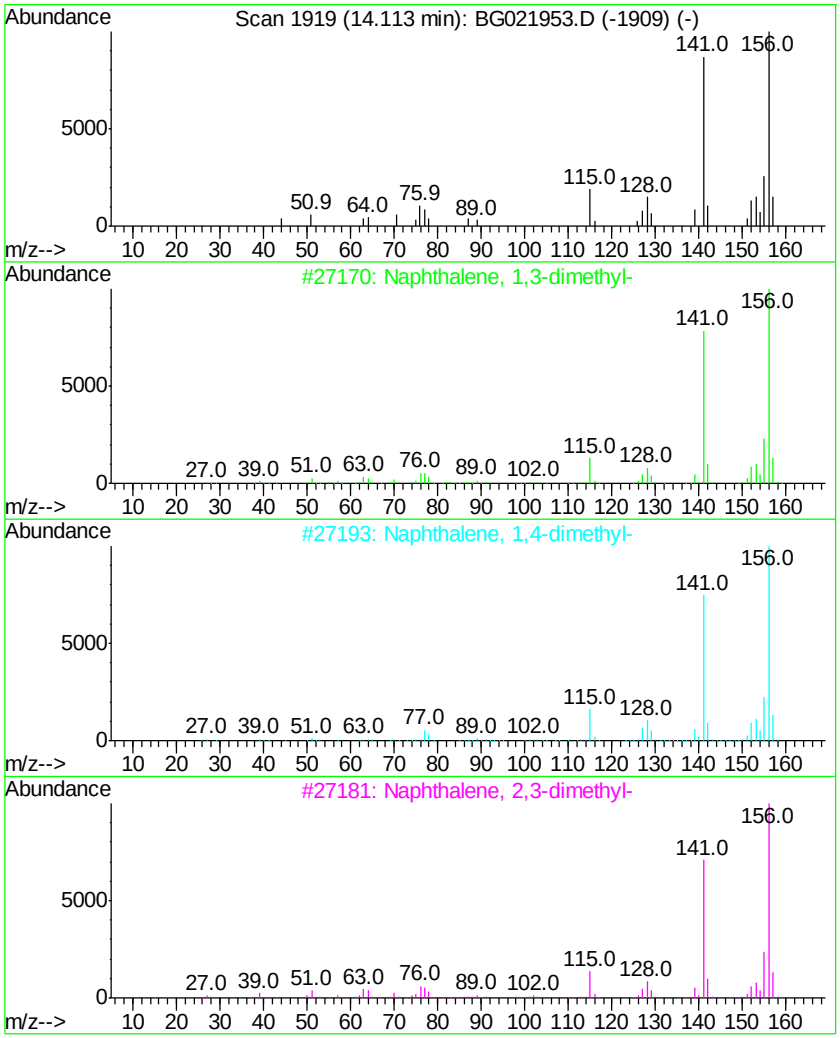
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

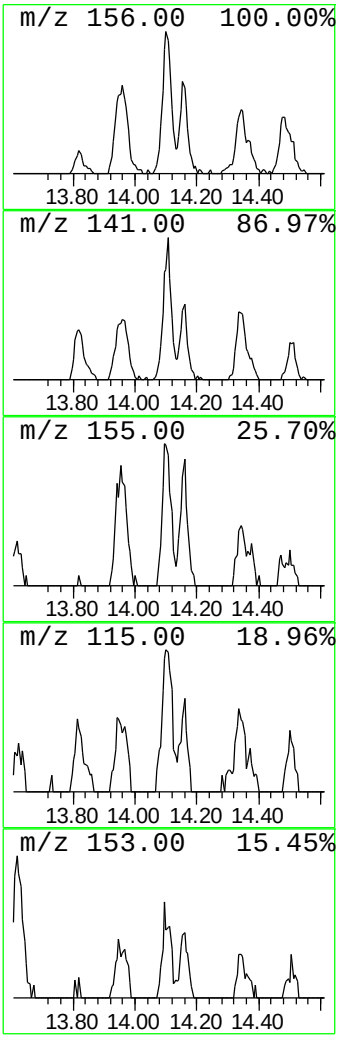
****

Peak Number 1 Naphthalene, 1,3-dimethyl- Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.11	2.37 ng/ul	63723	Acenaphthene-d10	14.78

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97
2	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
3	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96
5	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	95





Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\
Data File : BG021953.D
Acq On : 19 May 2016 4:38
Operator : UM/SJ
Sample : H3096-06DL 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

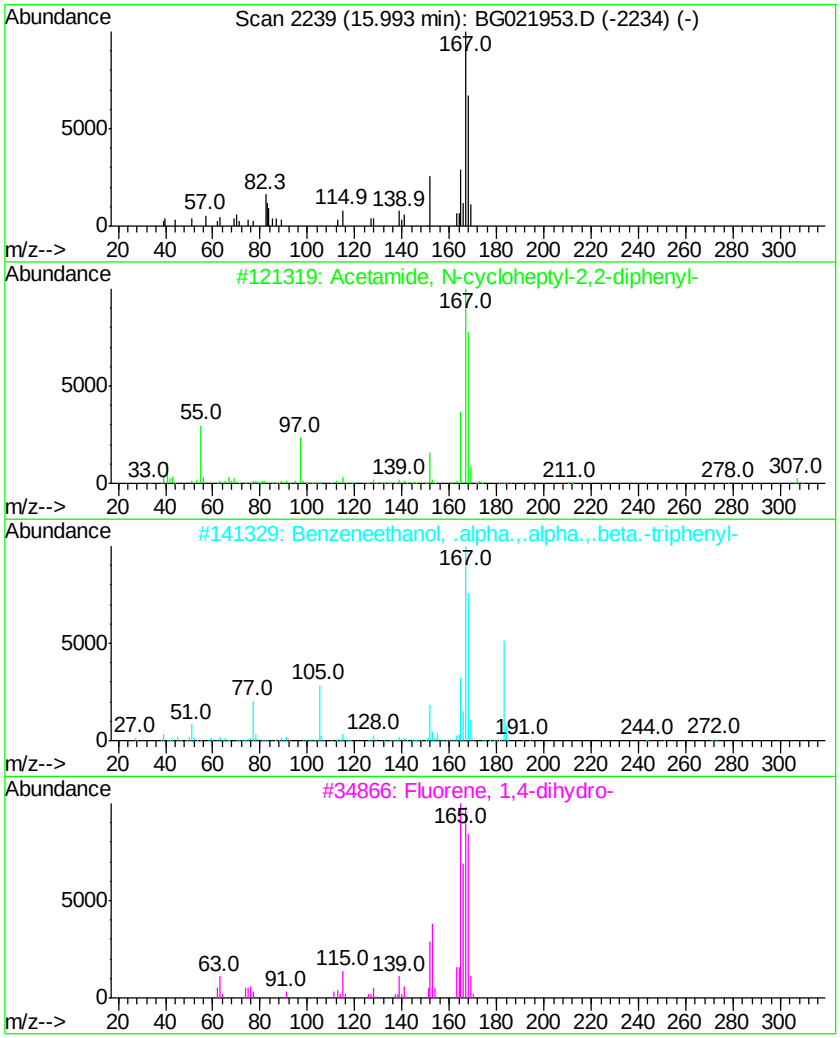
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

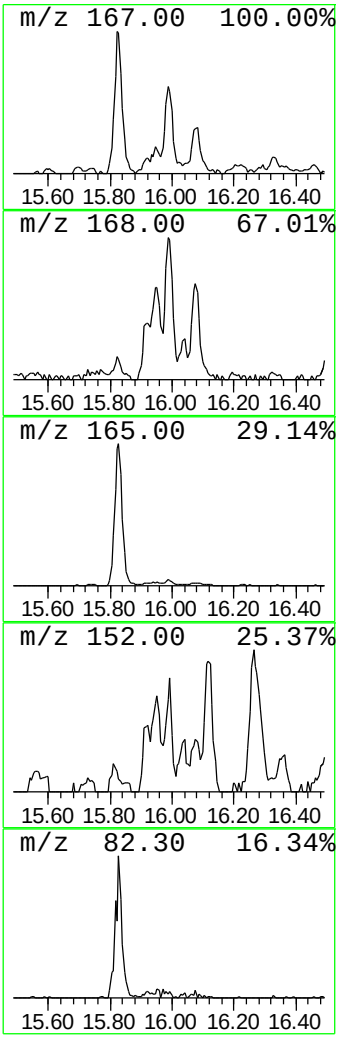
****

Peak Number 3 Acetamide, N-cycloheptyl-2,... Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.99	2.26 ng/ul	60928	Acenaphthene-d10	14.78

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetamide, N-cycloheptyl-2,2-dip...	307	C21H25NO	351062-01-6	72
2	Benzeneethanol, .alpha.,.alpha.,...	350	C26H22O	000981-24-8	64
3	Fluorene, 1,4-dihydro-	168	C13H12	041593-21-9	58
4	Fluorene, 2,4a-dihydro-	168	C13H12	059247-36-8	53
5	Benzeneacetaldehyde, .alpha.-phe...	196	C14H12O	000947-91-1	53





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\
Data File : BG021953.D
Acq On : 19 May 2016 4:38
Operator : UM/SJ
Sample : H3096-06DL 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

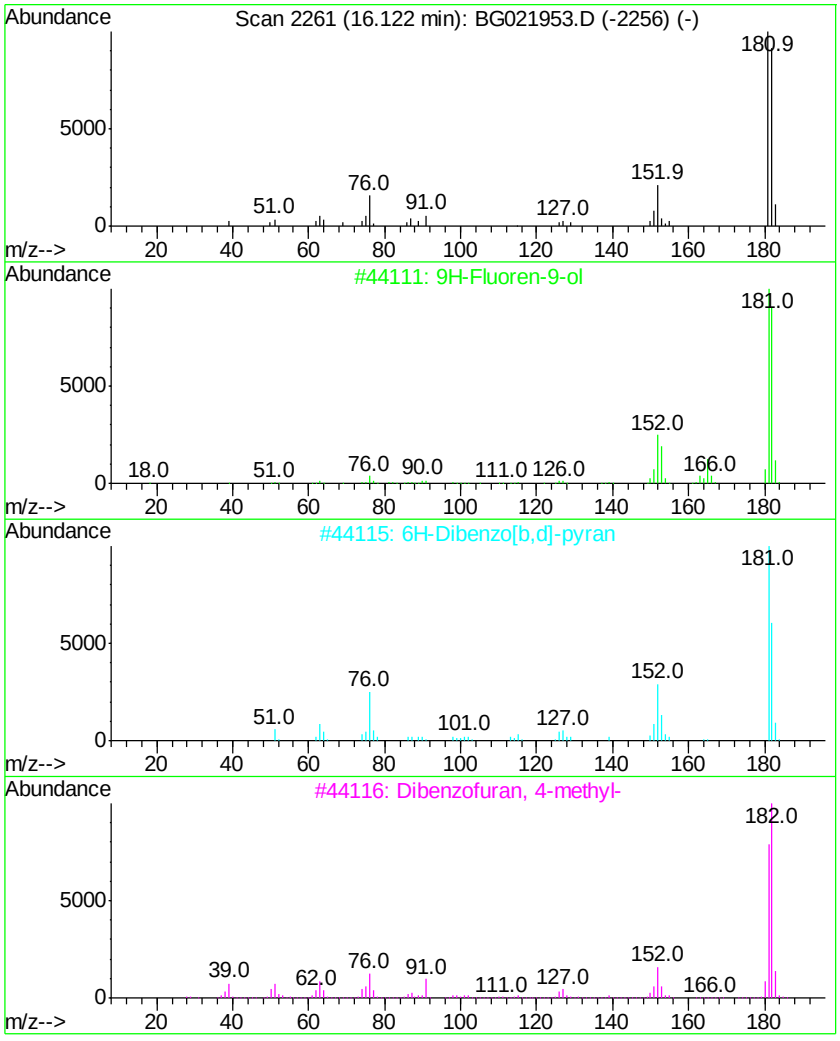
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

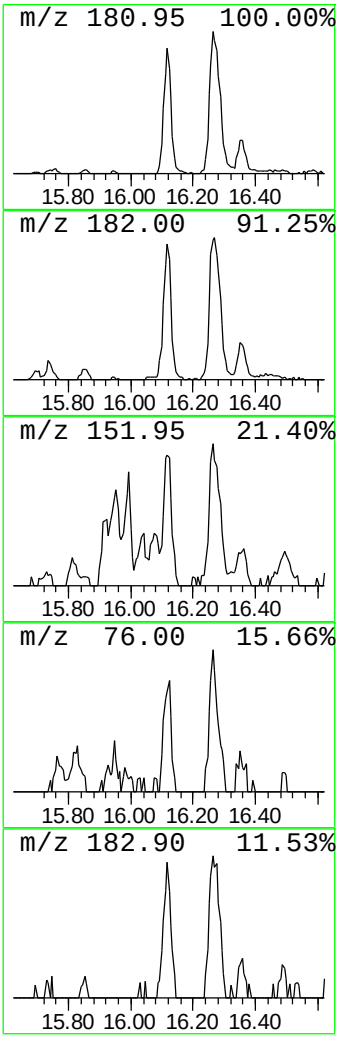
****

Peak Number 4 9H-Fluoren-9-ol Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.12	2.75 ng/ul	74123	Acenaphthene-d10	14.78

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	86
2	6H-Dibenzo[b,d]-pyran	182	C13H10O	000229-95-8	83
3	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	81
4	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
5	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	72





Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\
Data File : BG021953.D
Acq On : 19 May 2016 4:38
Operator : UM/SJ
Sample : H3096-06DL 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

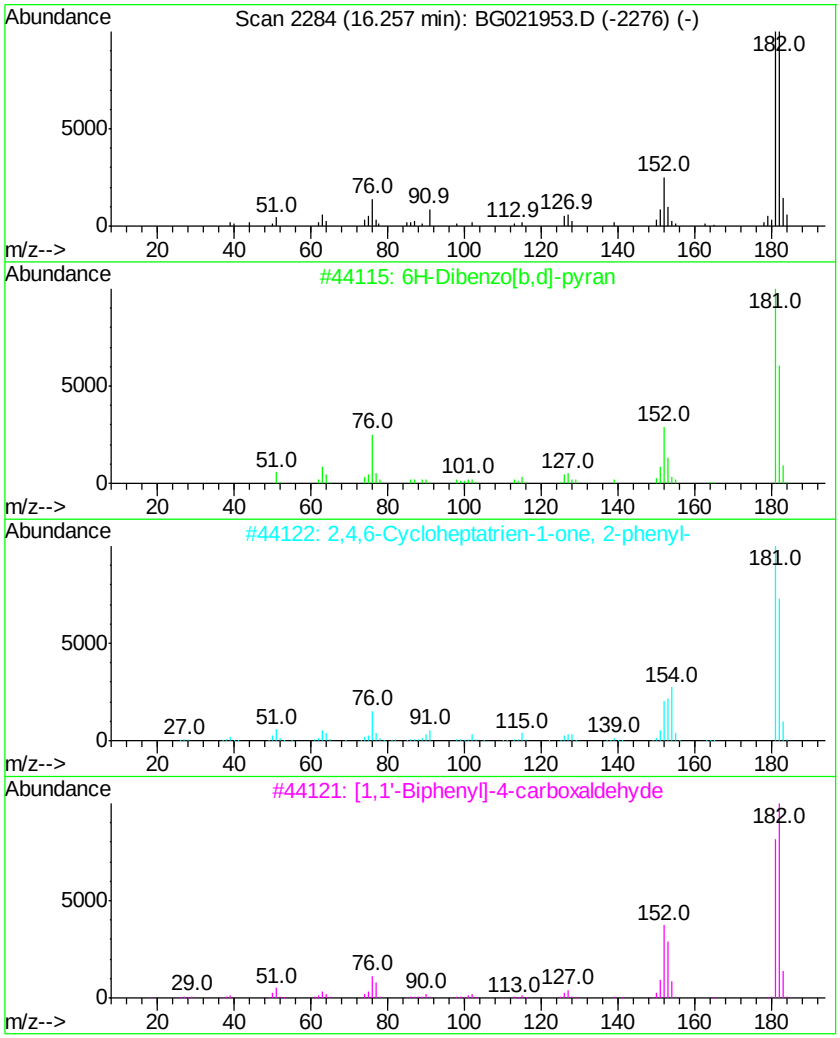
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

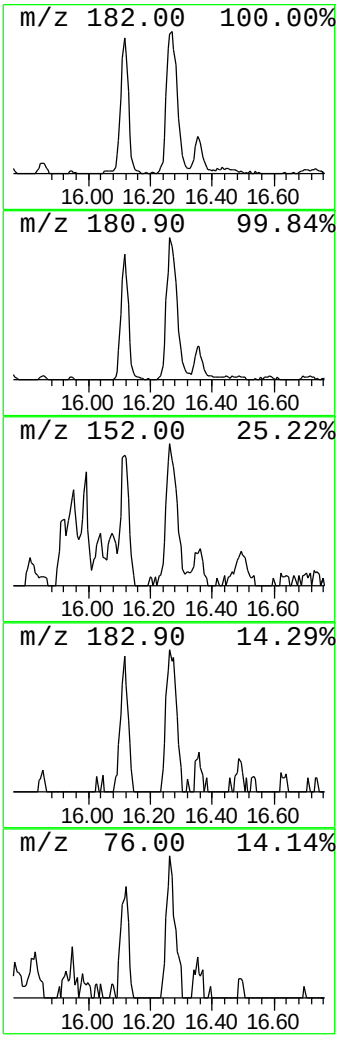
****

Peak Number 5 6H-Dibenzo[b,d]-pyran Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.26	3.63 ng/ul	110704	Phenanthrene-d10	17.53

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6H-Dibenzo[b,d]-pyran	182	C13H10O	000229-95-8	91
2	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	90
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	87
4	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
5	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	72





Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\
Data File : BG021953.D
Acq On : 19 May 2016 4:38
Operator : UM/SJ
Sample : H3096-06DL 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

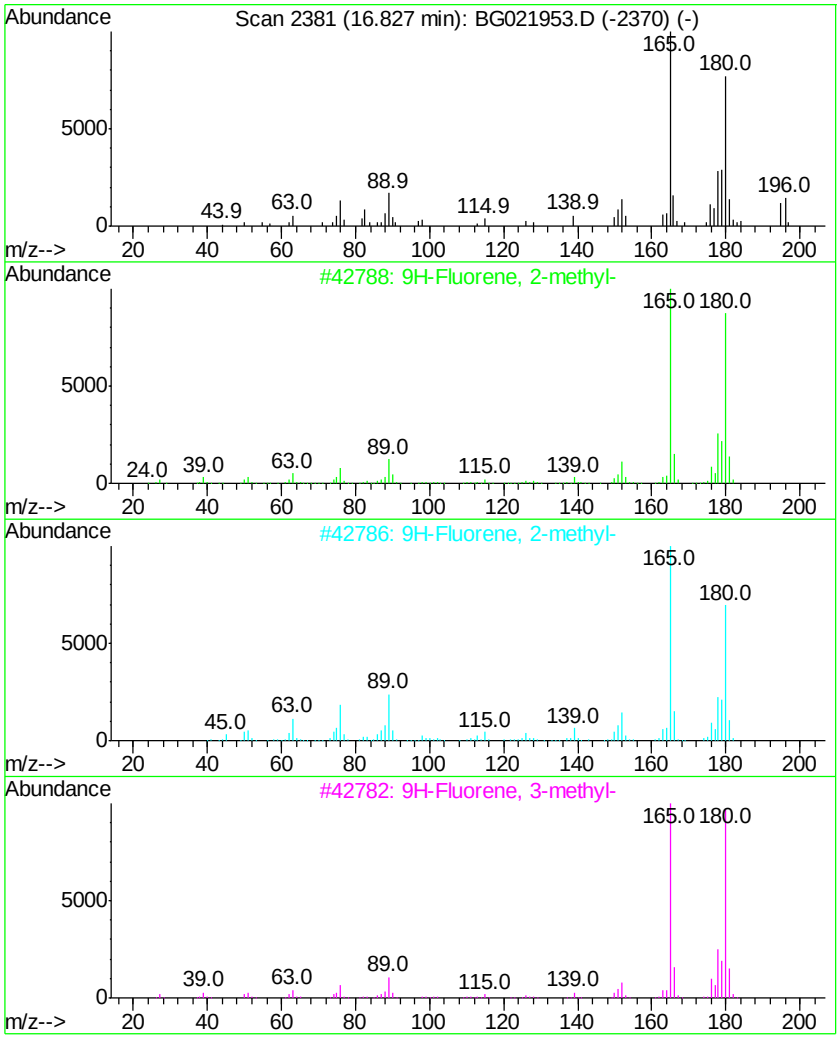
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

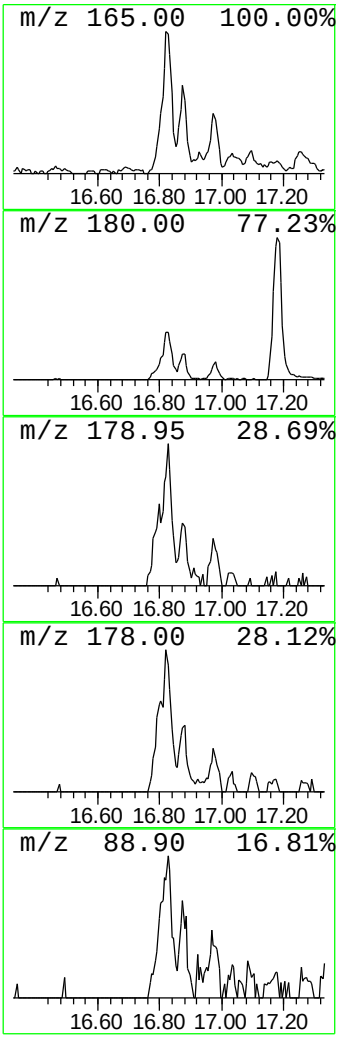
****

Peak Number 6 9H-Fluorene, 2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.83	4.20 ng/ul	128314	Phenanthrene-d10	17.53

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	97
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	95
4	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	90
5	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	90





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Acq On : 19 May 2016 4:38
Operator : UM/SJ
Sample : H3096-06DL 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1DL

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Quant Title : SVOA CALIBRATION

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

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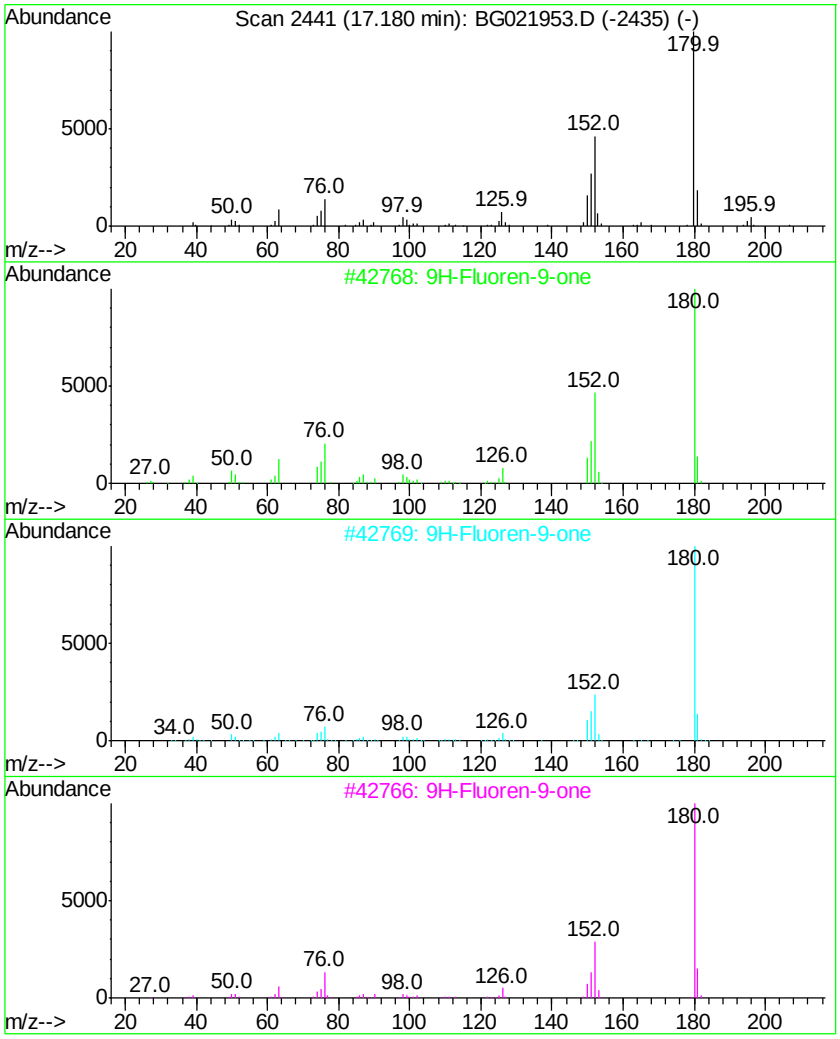
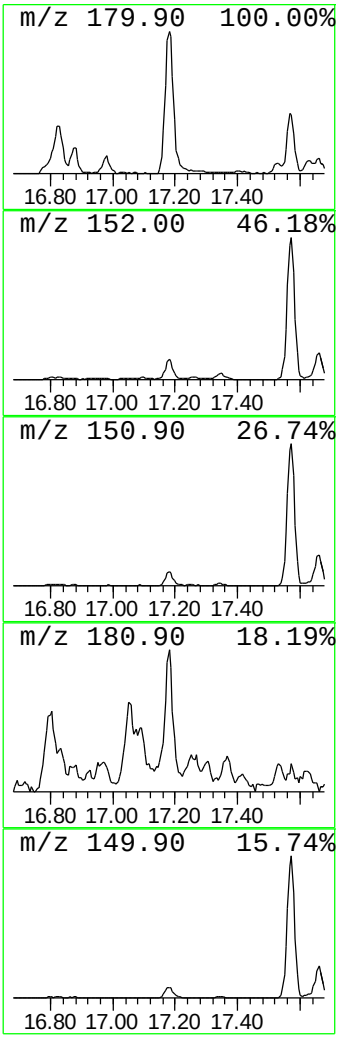
Peak Number 7 9H-Fluoren-9-one Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.18	4.69 ng/ul	143063	Phenanthrene-d10	17.53

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	97
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	94
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	94
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	91
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	87





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ClientSampleId : D9XG1DL

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Quant Title : SVOA CALIBRATION

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

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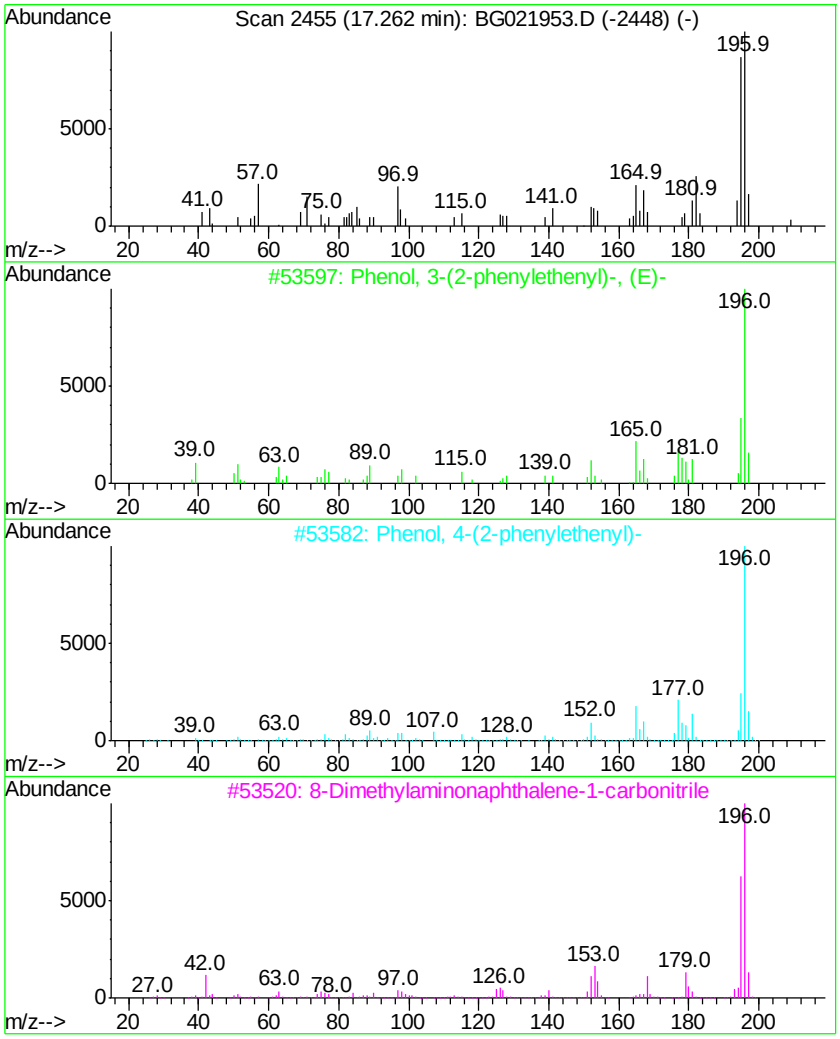
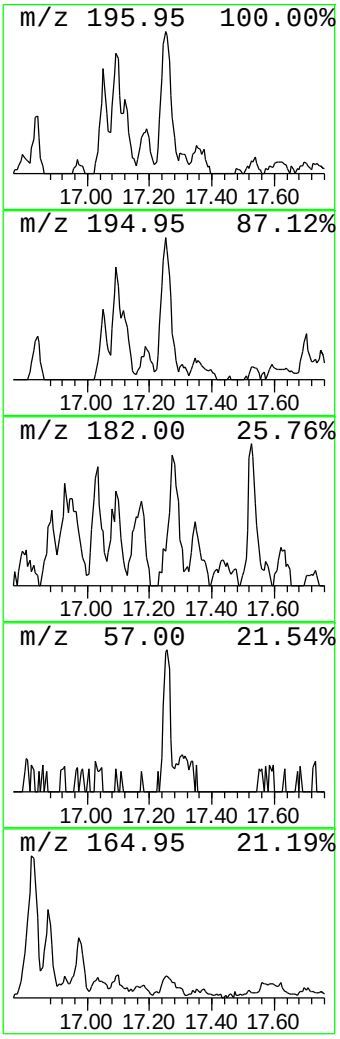
Peak Number 8 Phenol, 3-(2-phenylethenyl)... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.26	2.65 ng/ul	80861	Phenanthrene-d10	17.53

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 3-(2-phenylethenyl)-, (E)-	196	C14H12O	017861-18-6	53
2	Phenol, 4-(2-phenylethenyl)-	196	C14H12O	003839-46-1	53
3	8-Dimethylaminonaphthalene-1-car...	196	C13H12N2	128644-69-9	53
4	Phenol, 4-(2-phenylethenyl)-	196	C14H12O	003839-46-1	49
5	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	49





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Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

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

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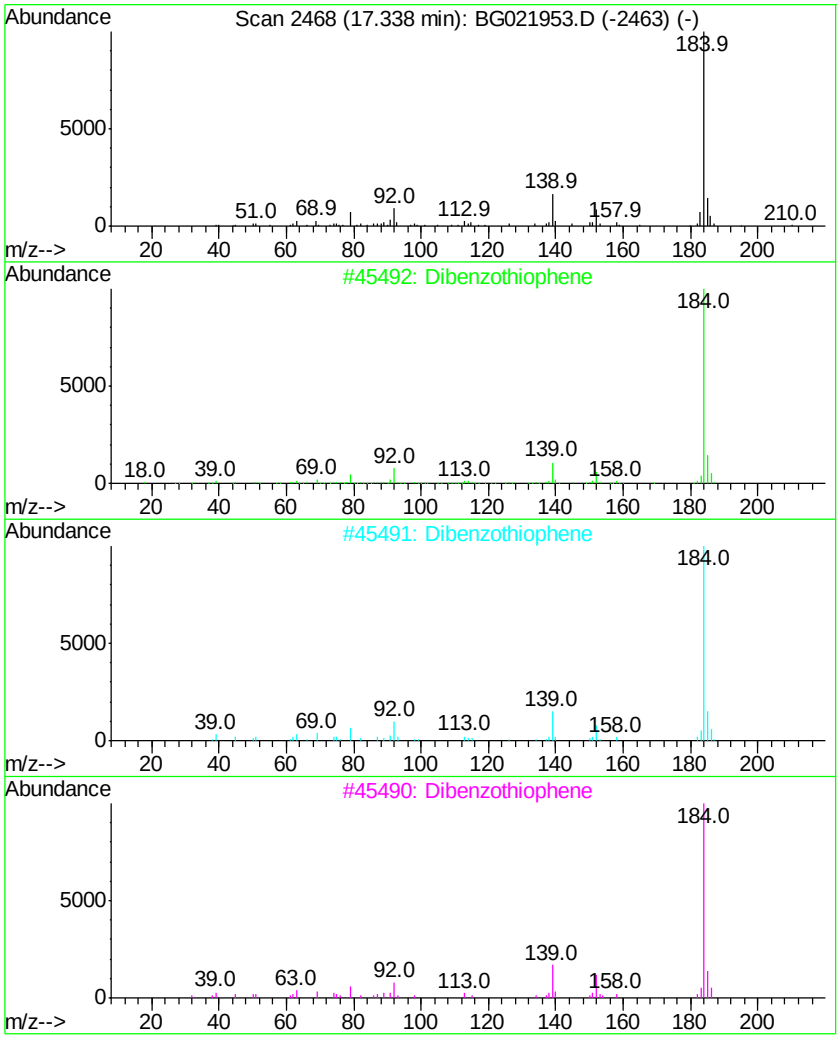
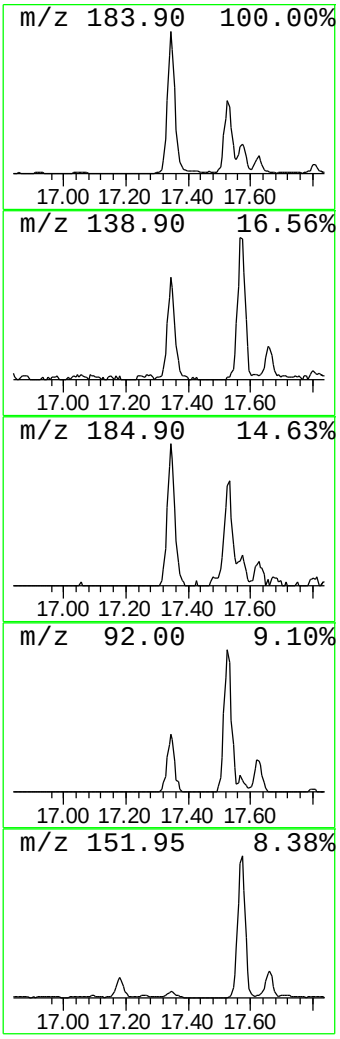
Peak Number 9 Dibenzothiophene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.34	5.34 ng/ul	163046	Phenanthrene-d10	17.53

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Dibenzothiophene	184	C12H8S	000132-65-0	96
3	Dibenzothiophene	184	C12H8S	000132-65-0	96
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	94





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Sample : H3096-06DL 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

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

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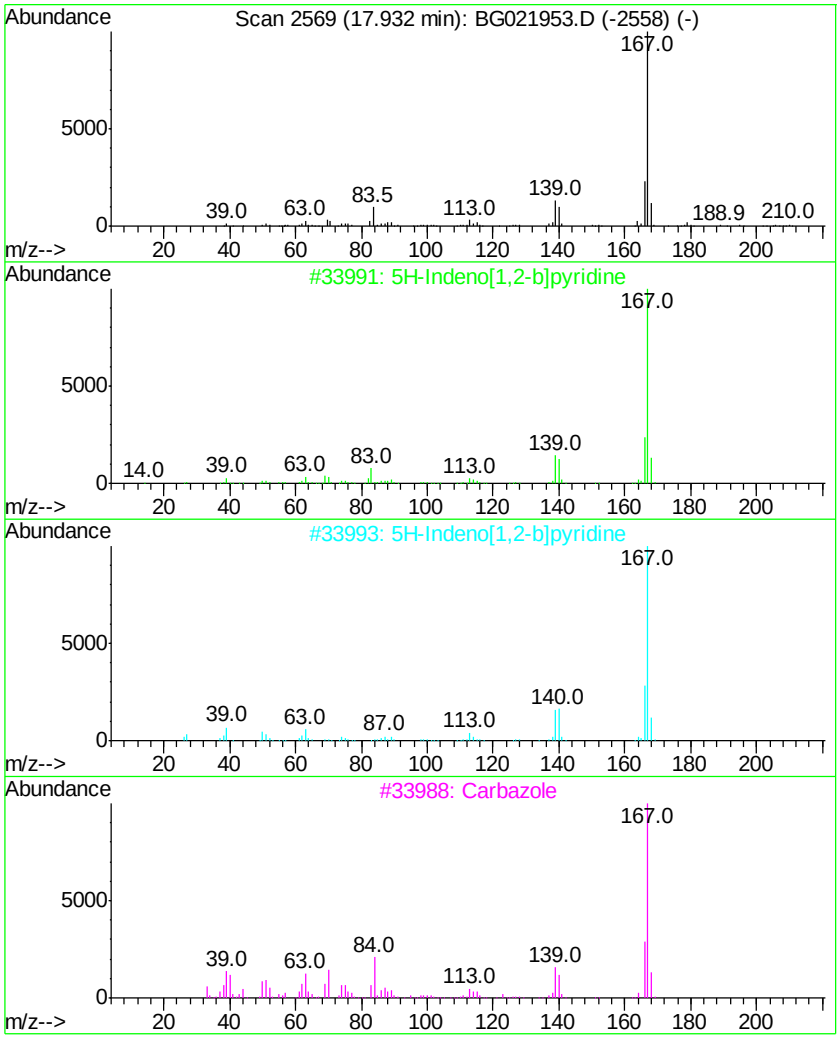
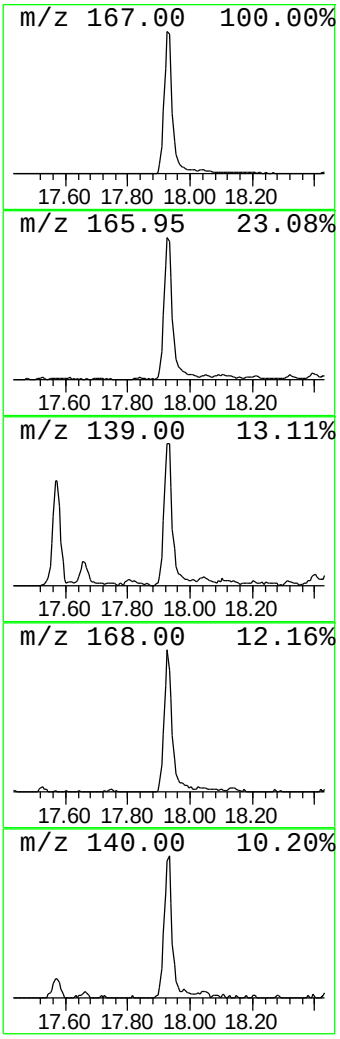
Peak Number 10 5H-Indeno[1,2-b]pyridine Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.93	17.64 ng/ul	538568	Phenanthrene-d10	17.53

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5H-Indeno[1,2-b]pyridine	167	C12H9N	000244-99-5	95
2	5H-Indeno[1,2-b]pyridine	167	C12H9N	000244-99-5	87
3	Carbazole	167	C12H9N	000086-74-8	87
4	Carbazole	167	C12H9N	000086-74-8	87
5	D-Galactitol, 2-(acetylmethylami...	363	C16H29NO8	074410-42-7	83





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Misc :
ALS Vial : 19 Sample Multiplier: 1

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ClientSampleId : D9XG1DL

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Quant Title : SVOA CALIBRATION

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

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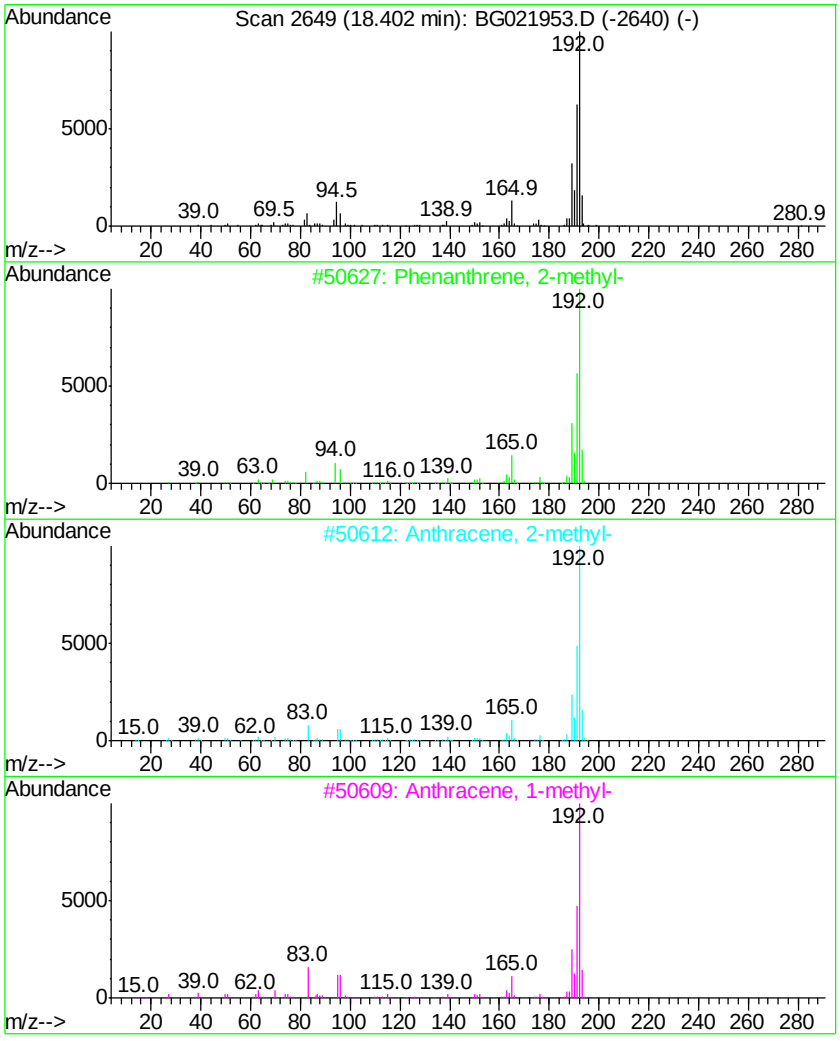
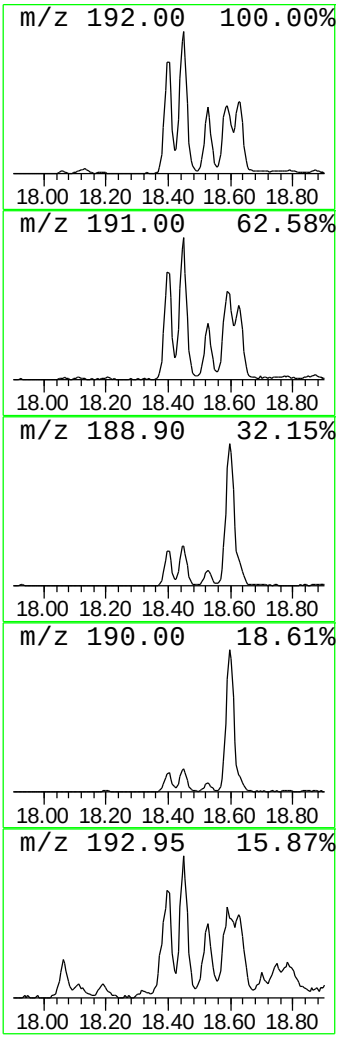
Peak Number 11 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.40	8.47 ng/ul	258785	Phenanthrene-d10	17.53

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91





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Sample : H3096-06DL 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1DL

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Quant Title : SVOA CALIBRATION

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

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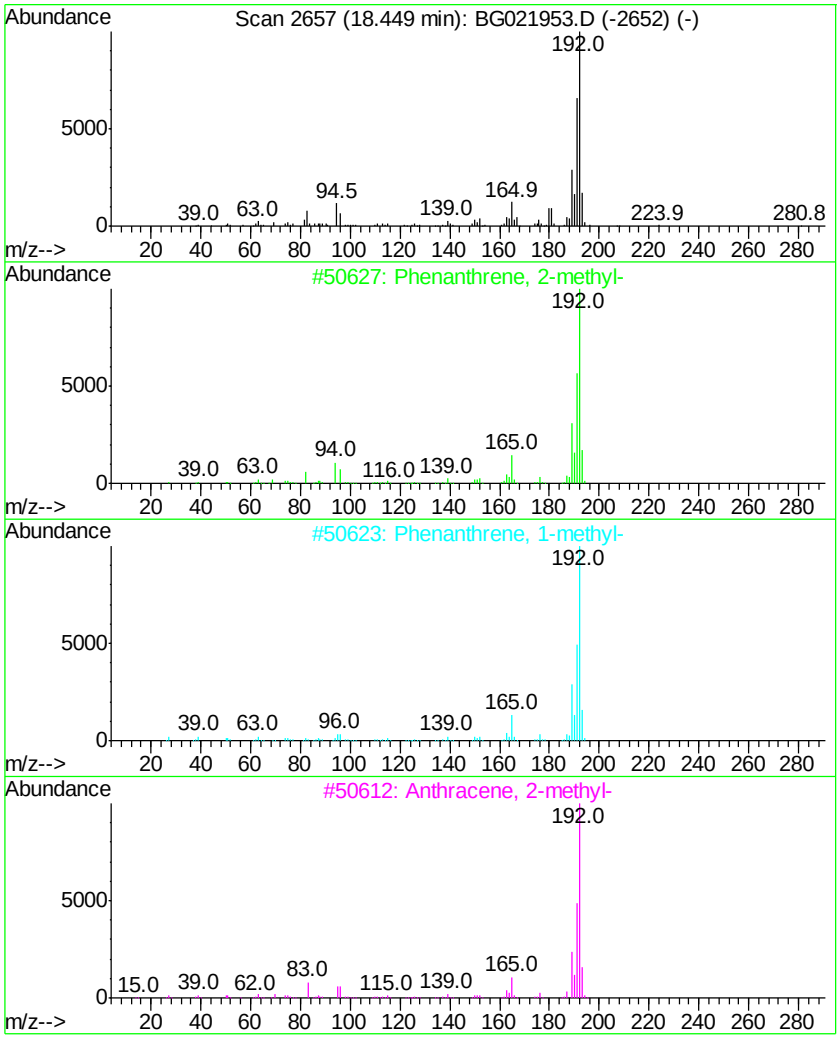
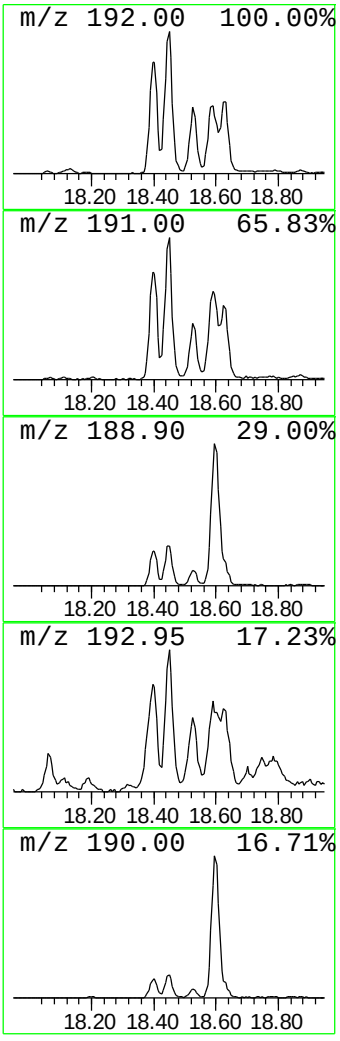
Peak Number 12 Phenanthrene, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.45	11.69 ng/ul	356829	Phenanthrene-d10	17.53

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	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	92





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Sample : H3096-06DL 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1DL

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Quant Title : SVOA CALIBRATION

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

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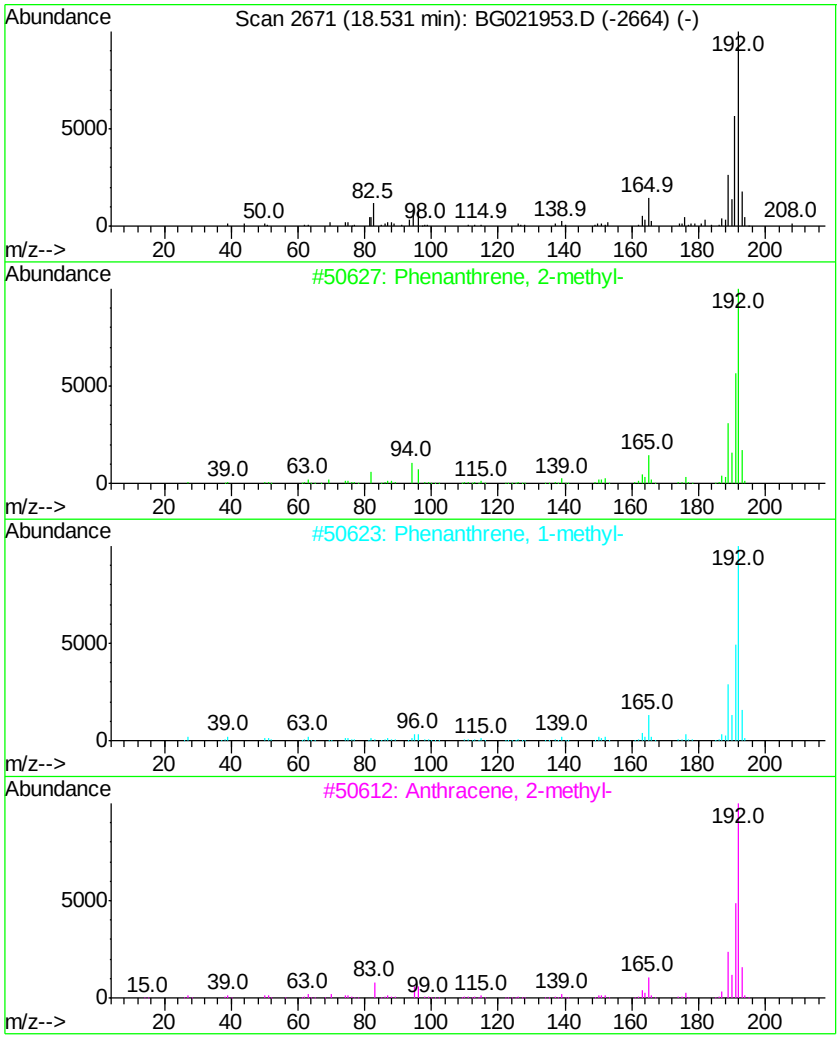
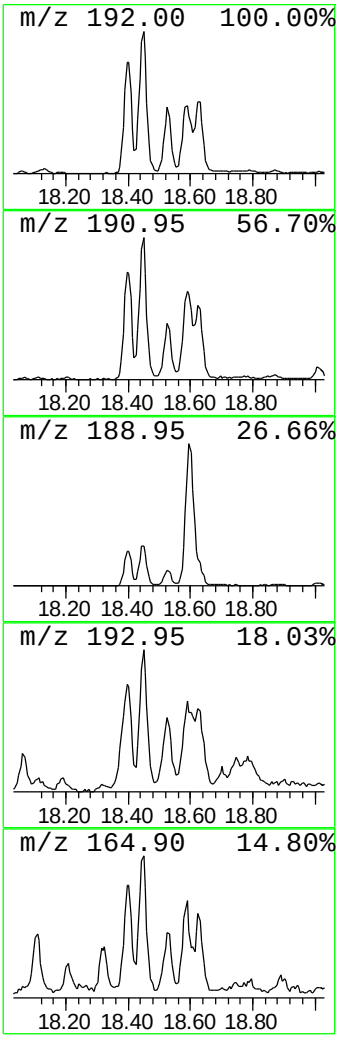
Peak Number 13 Anthracene, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.53	4.30 ng/ul	131321	Phenanthrene-d10	17.53

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95





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ClientSampleId : D9XG1DL

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Quant Title : SVOA CALIBRATION

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

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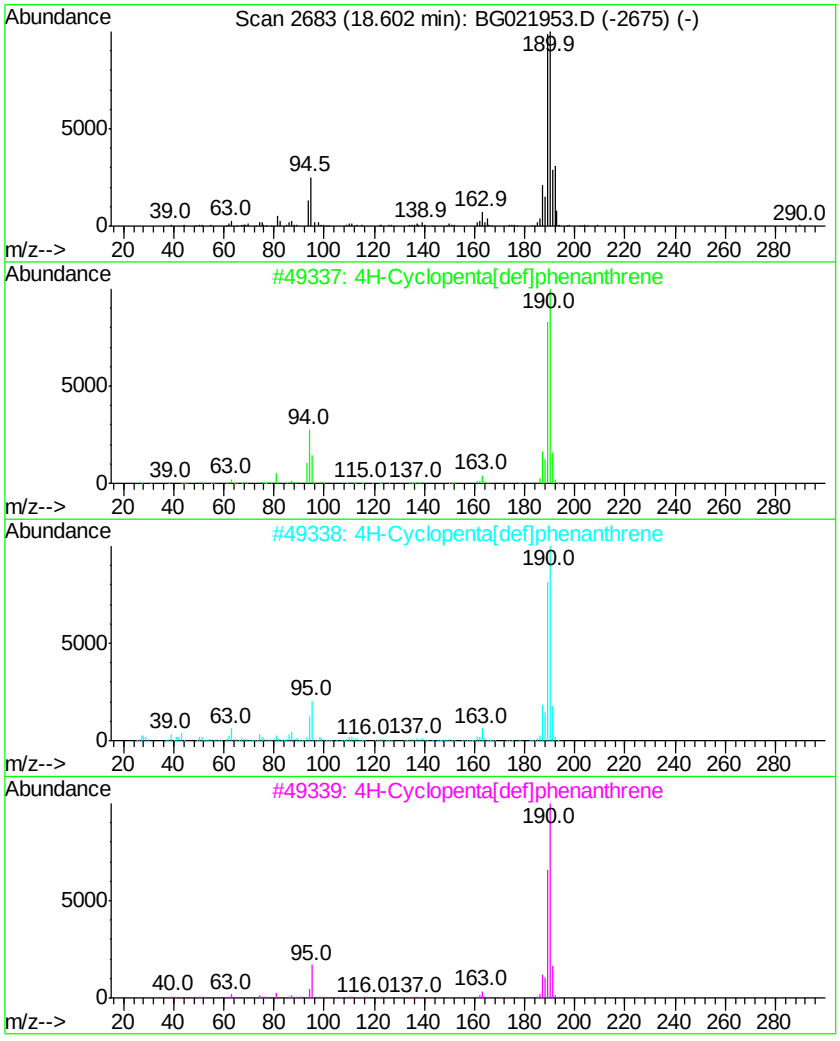
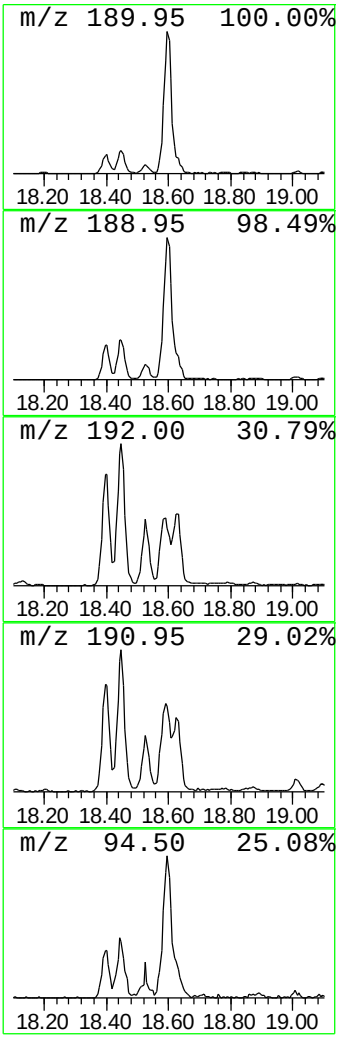
Peak Number 14 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.60	16.85 ng/ul	514511	Phenanthrene-d10	17.53

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	76
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
4	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	52
5	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50





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Instrument : BNA_G
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Quant Title : SVOA CALIBRATION

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

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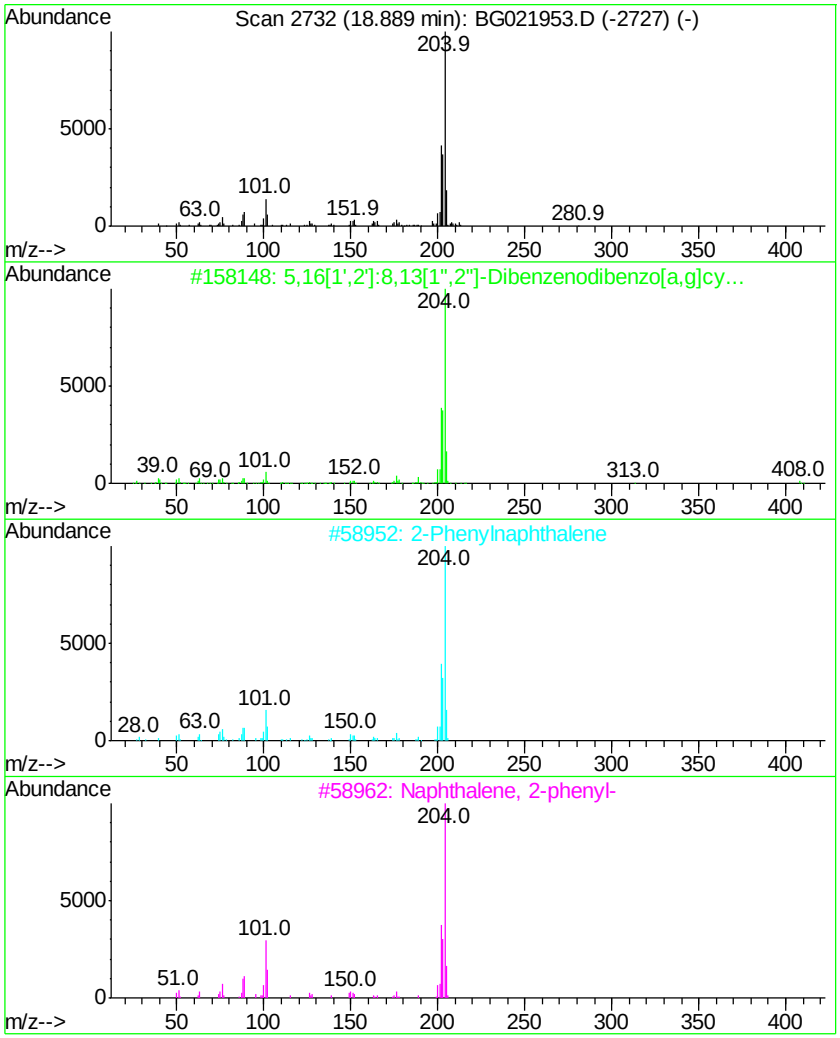
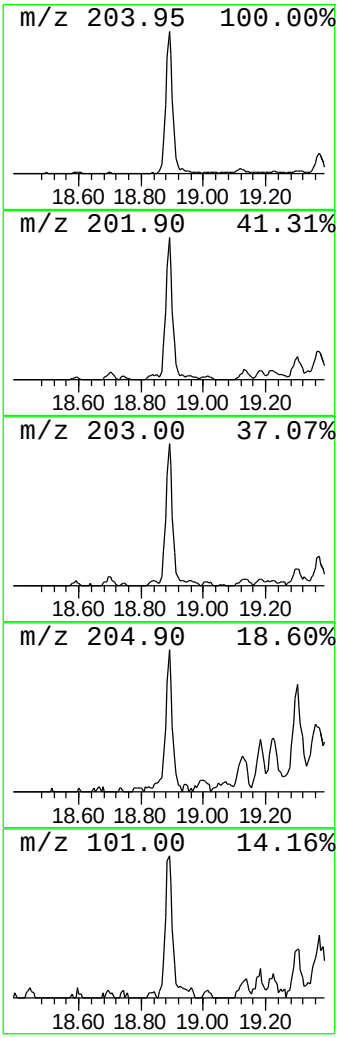
Peak Number 15 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.89	5.59 ng/ul	170680	Phenanthrene-d10	17.53

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
2	2-Phenylnaphthalene	204	C16H12	035465-71-5	86
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	70
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	64





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

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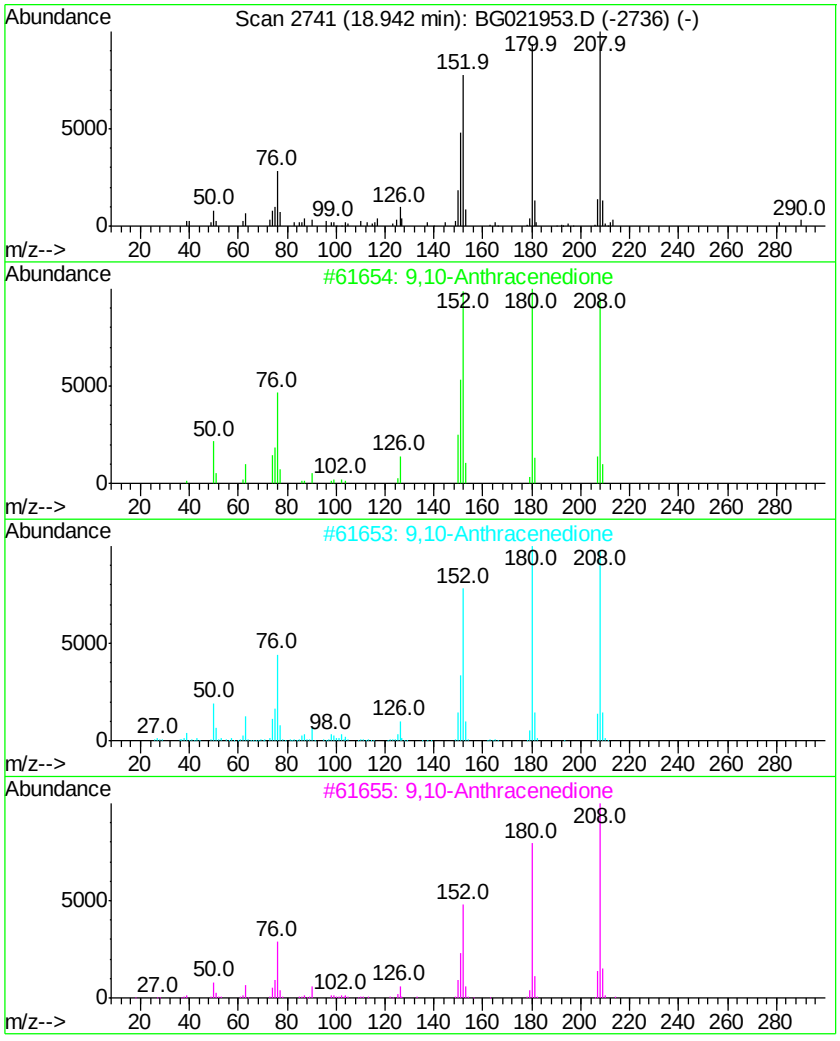
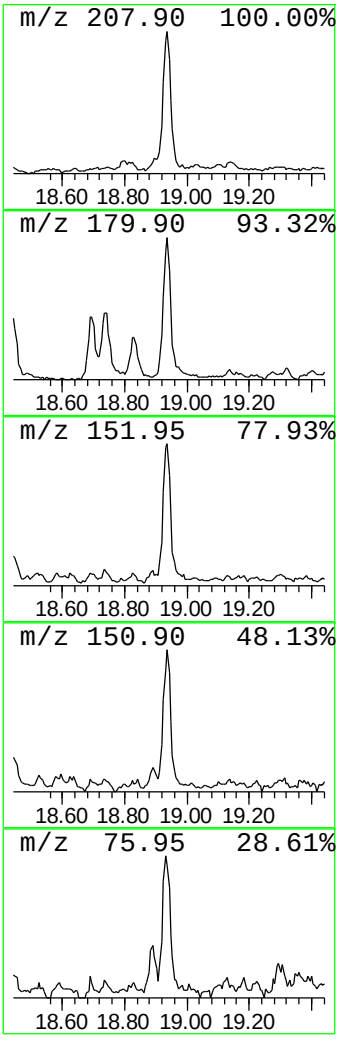
Peak Number 16 9,10-Anthracenedione Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.94	4.53 ng/ul	138221	Phenanthrene-d10	17.53

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	96
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	93
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	83
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60





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Quant Title : SVOA CALIBRATION

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

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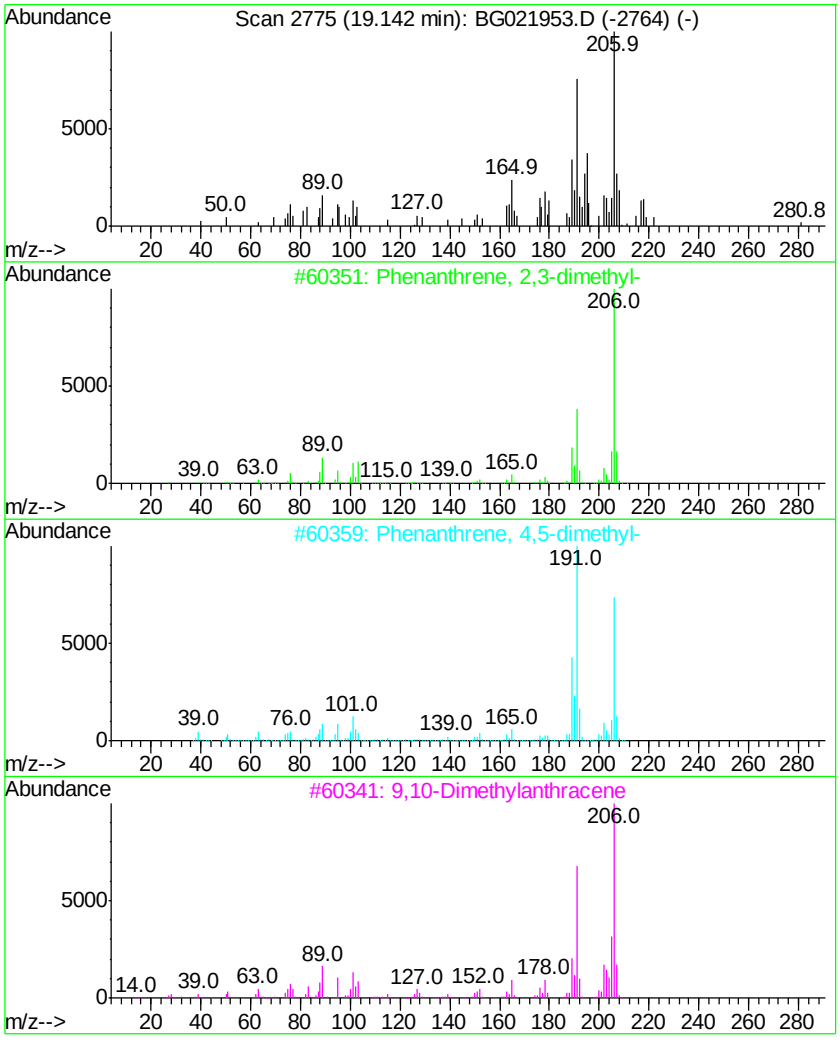
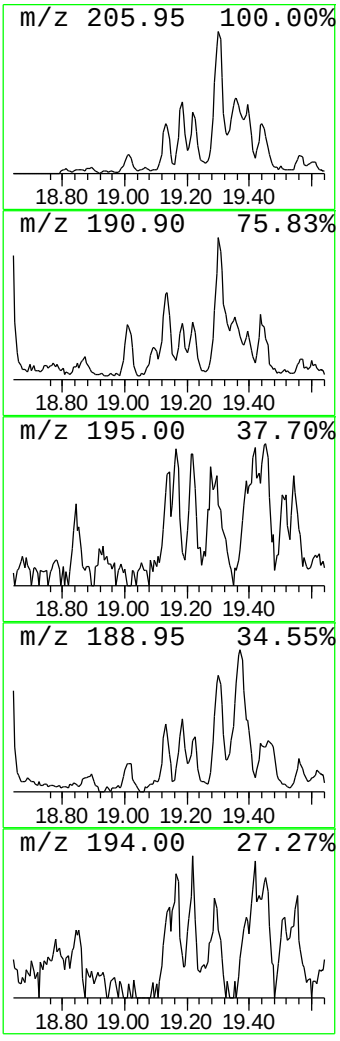
Peak Number 17 Phenanthrene, 2,3-dimethyl- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.14	2.36 ng/ul	72157	Phenanthrene-d10	17.53

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
2	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	90
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	89
4	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	89
5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	87





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Operator : UM/SJ
Sample : H3096-06DL 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1DL

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Quant Title : SVOA CALIBRATION

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

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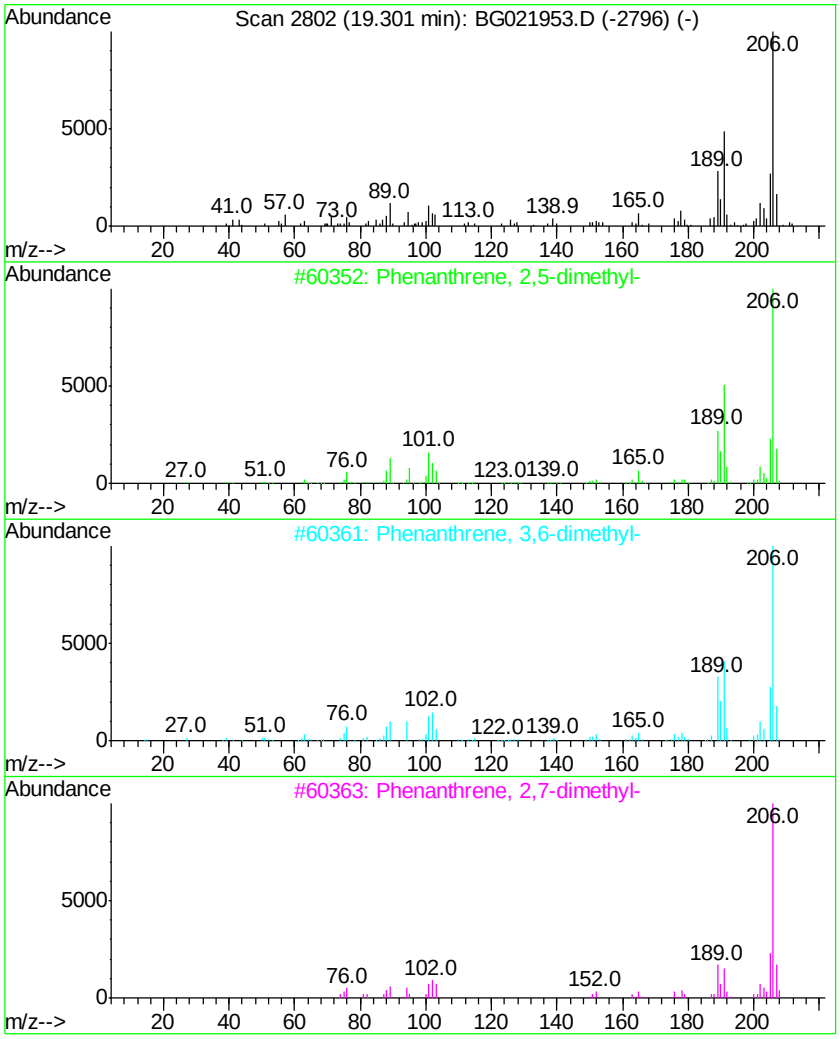
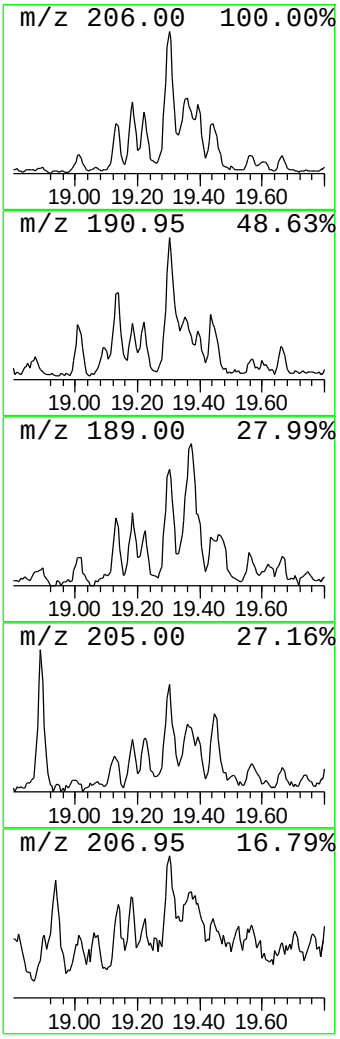
Peak Number 18 Phenanthrene, 2,5-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.30	4.96 ng/ul	151383	Phenanthrene-d10	17.53

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
3	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	91
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91





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Data File : BG021953.D
Acq On : 19 May 2016 4:38
Operator : UM/SJ
Sample : H3096-06DL 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

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

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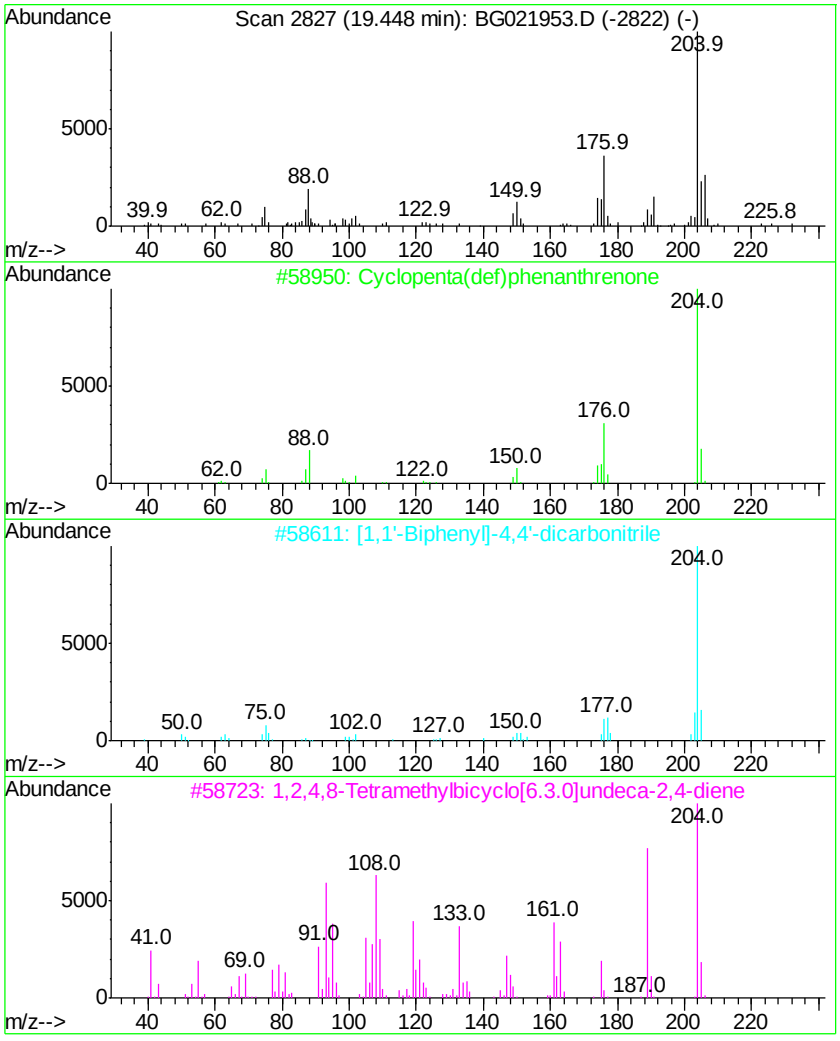
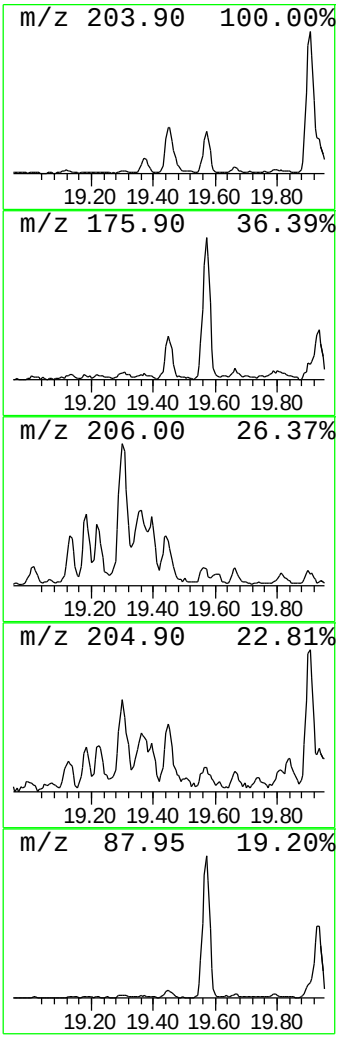
Peak Number 19 Cyclopenta(def)phenanthrenone Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.45	3.94 ng/ul	120237	Phenanthrene-d10	17.53

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	53
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	49
4	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	47
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	47





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Sample : H3096-06DL 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

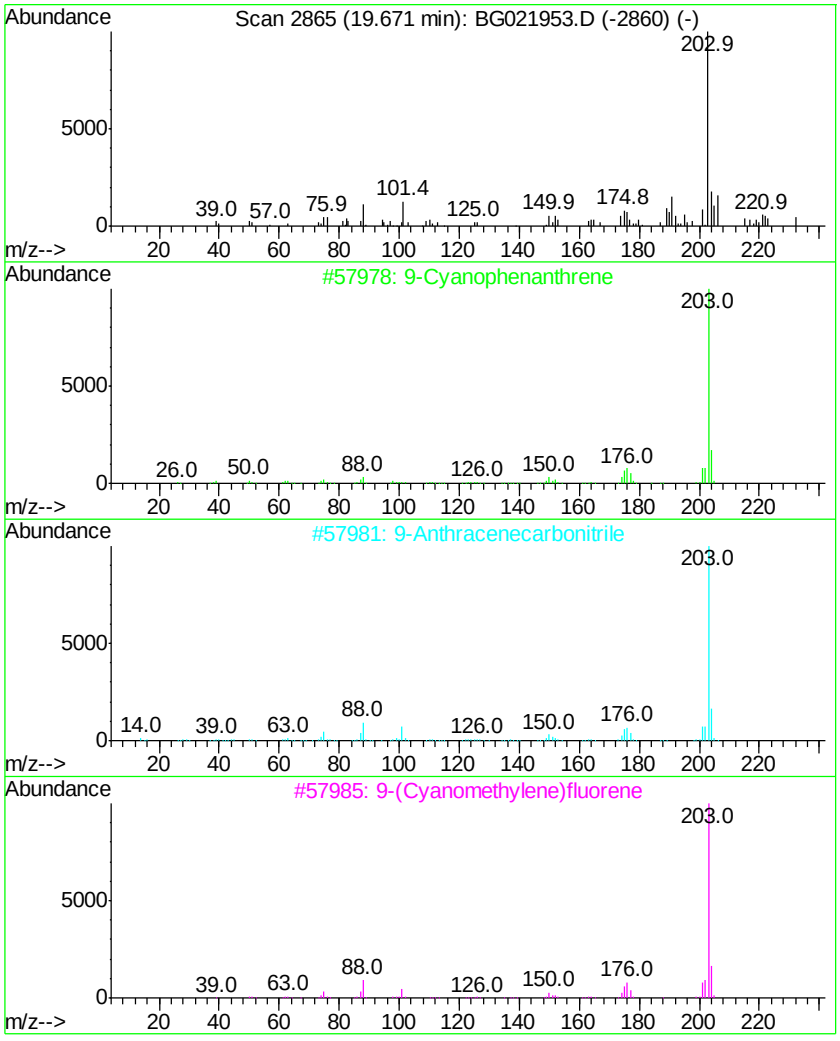
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

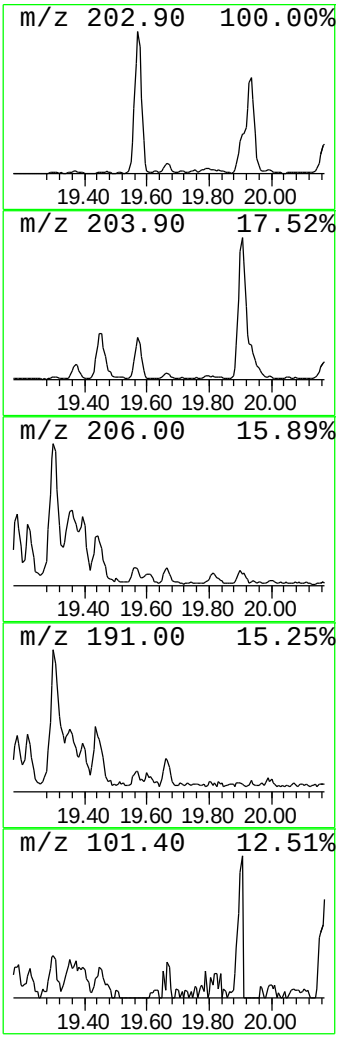
****

Peak Number 20 9-Cyanophenanthrene Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.67	2.40 ng/ul	73340	Phenanthrene-d10	17.53

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Cyanophenanthrene	203	C15H9N	002510-55-6	78
2	9-Anthracenecarbonitrile	203	C15H9N	001210-12-4	70
3	9-(Cyanomethylene)fluorene	203	C15H9N	004425-74-5	64
4	9-Anthracenecarbonitrile	203	C15H9N	001210-12-4	64
5	Indeno(1,2,3-ij)isoquinoline	203	C15H9N	000206-56-4	60





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Operator : UM/SJ
Sample : H3096-06DL 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1DL

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Quant Title : SVOA CALIBRATION

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

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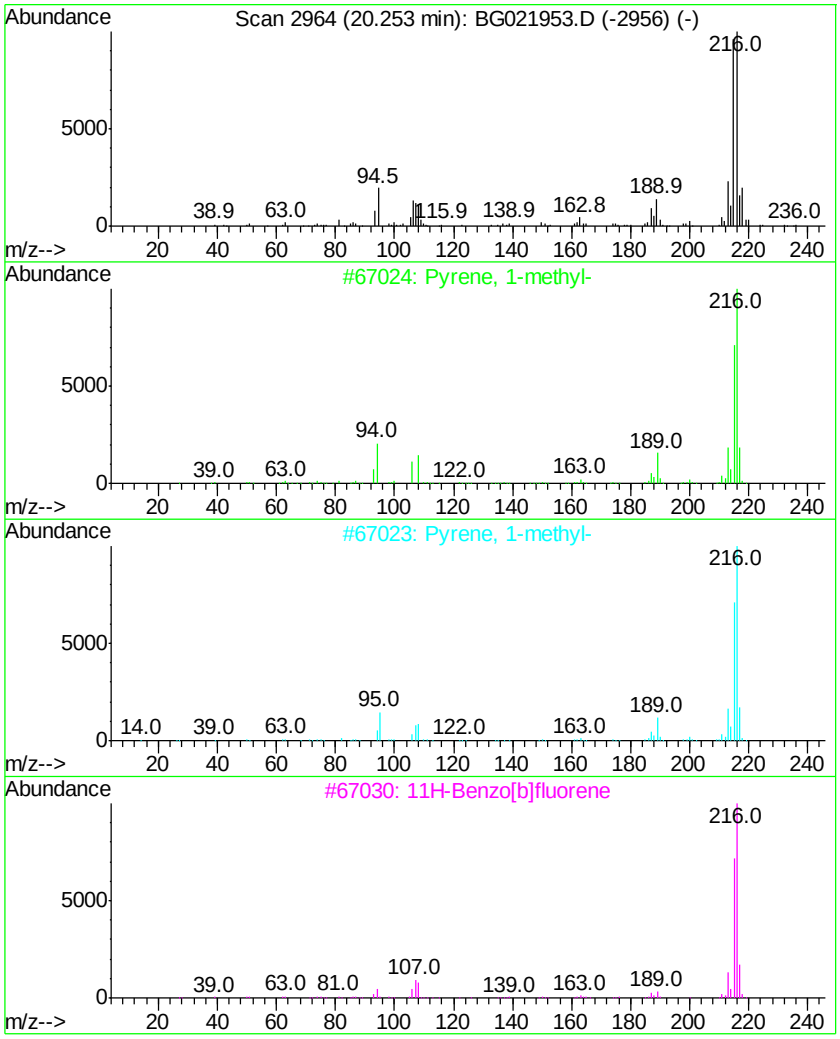
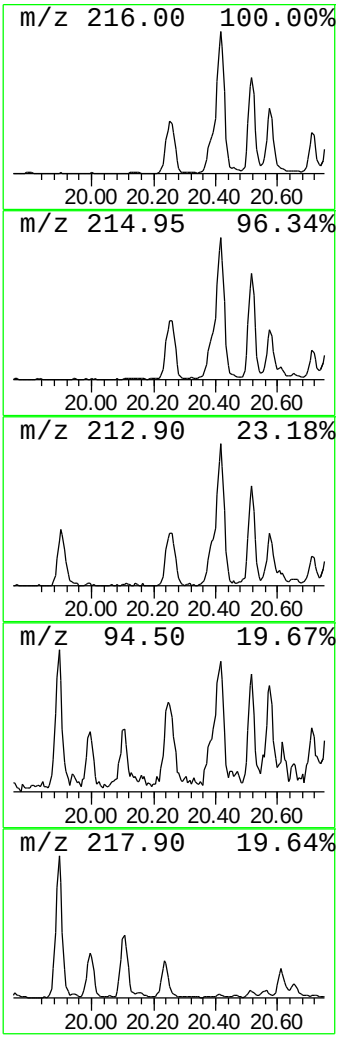
Peak Number 21 Pyrene, 1-methyl- Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.25	2.22 ng/ul	241145	Chrysene-d12	21.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	86
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	68
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	64
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	64





Library Search Compound Report

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Acq On : 19 May 2016 4:38
Operator : UM/SJ
Sample : H3096-06DL 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1DL

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Quant Title : SVOA CALIBRATION

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

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Peak Number 22 11H-Benzo[b]fluorene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.42	3.29 ng/ul	357834	Chrysene-d12	21.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
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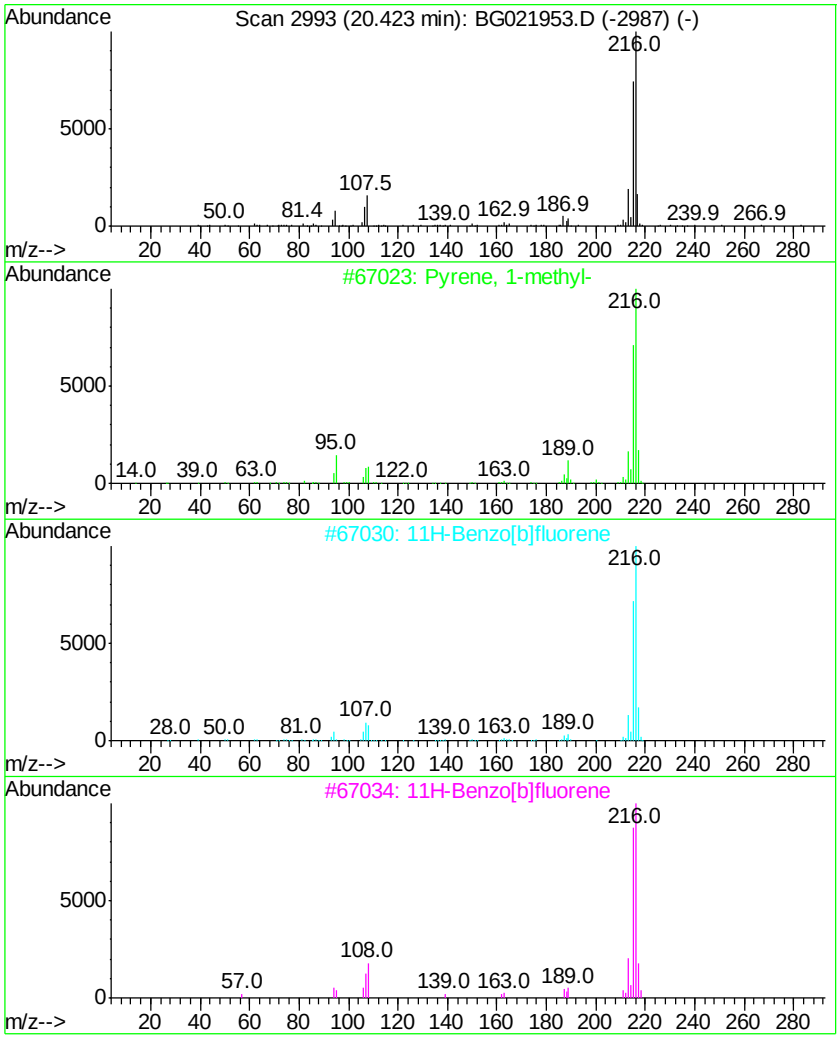

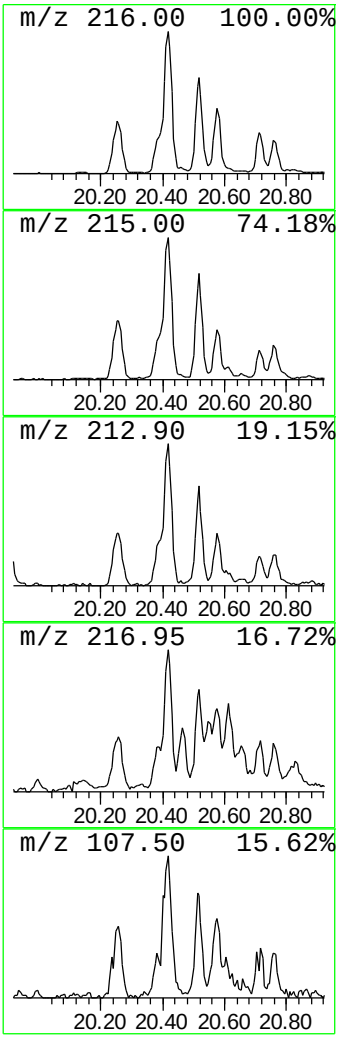

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Operator : UM/SJ
Sample : H3096-06DL 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

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

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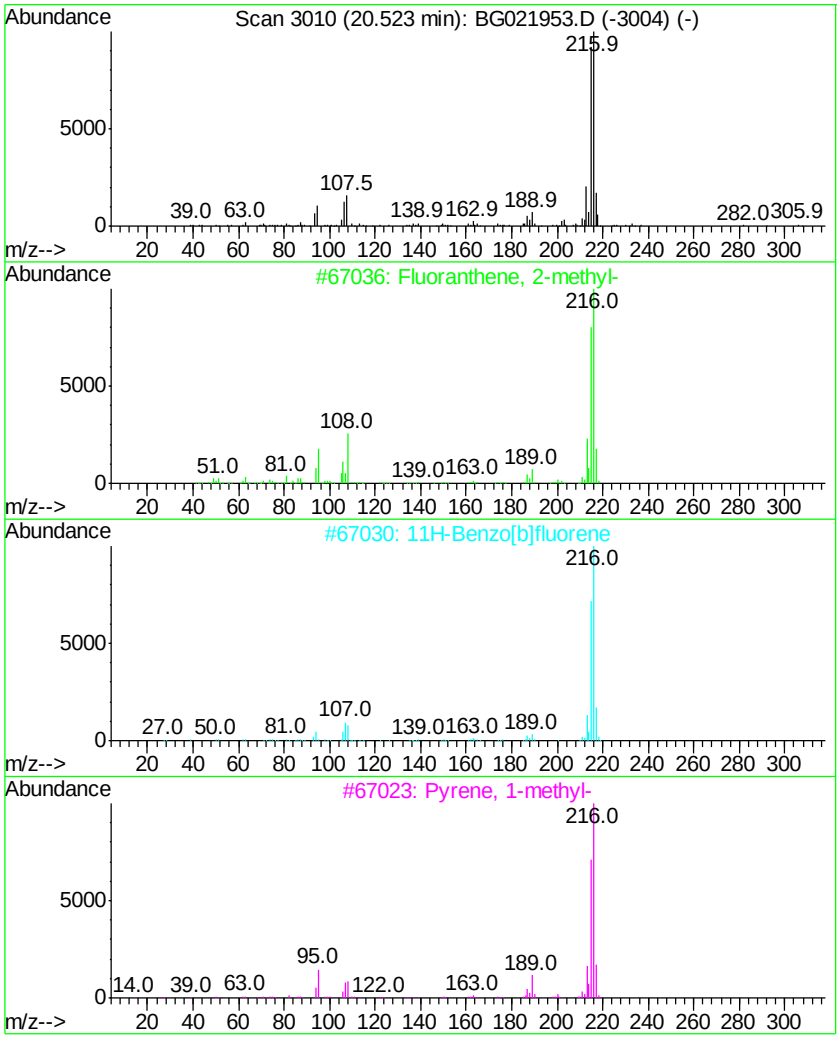
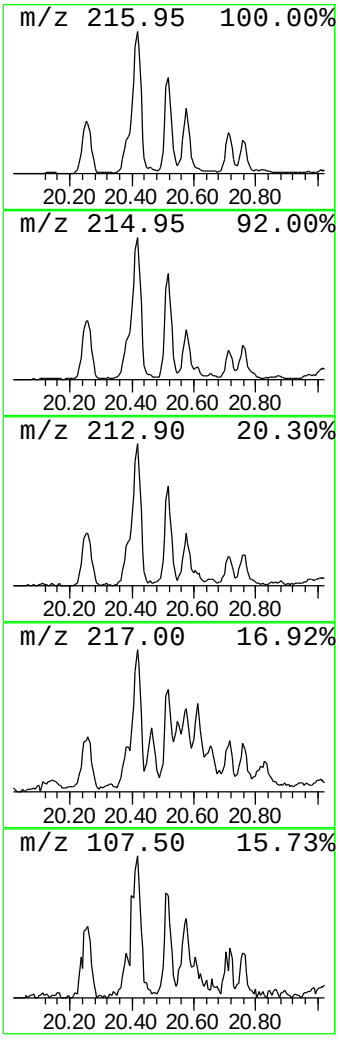
Peak Number 23 Fluoranthene, 2-methyl- Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.52	2.25 ng/ul	245178	Chrysene-d12	21.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87





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Sample : H3096-06DL 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

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

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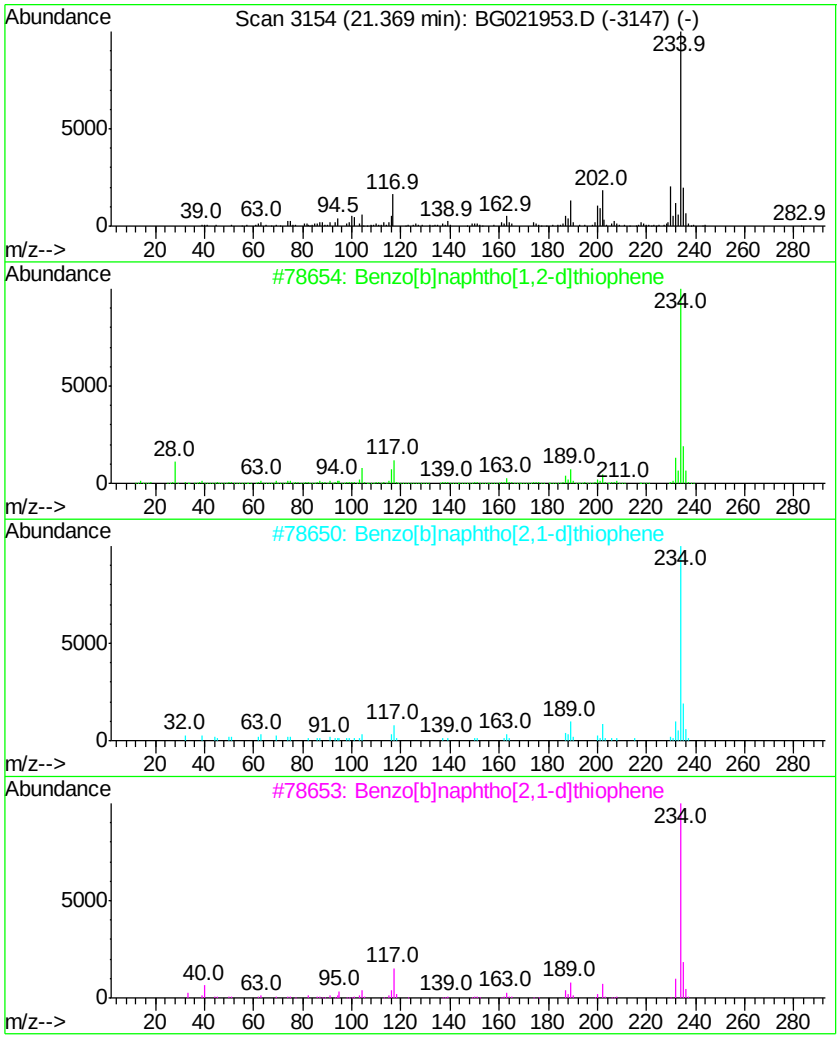
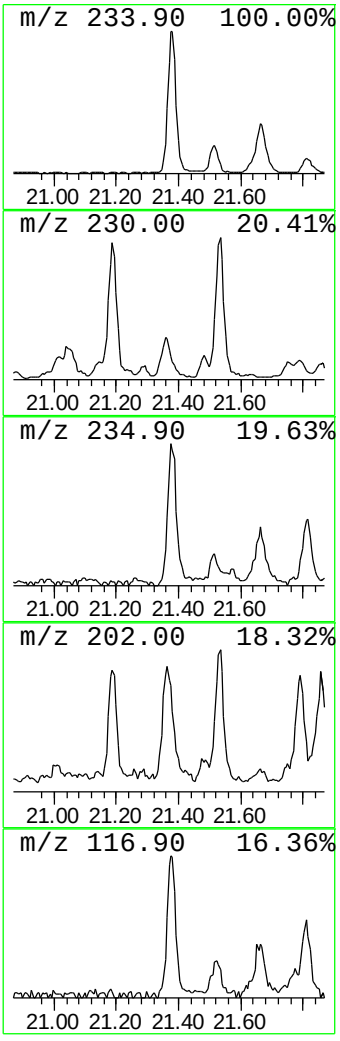
Peak Number 25 Benzo[b]naphtho[1,2-d]thiop... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.37	2.69 ng/ul	292432	Chrysene-d12	21.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	95
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	95
3	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	94
4	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	94
5	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	93





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Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1DL

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Quant Title : SVOA CALIBRATION

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

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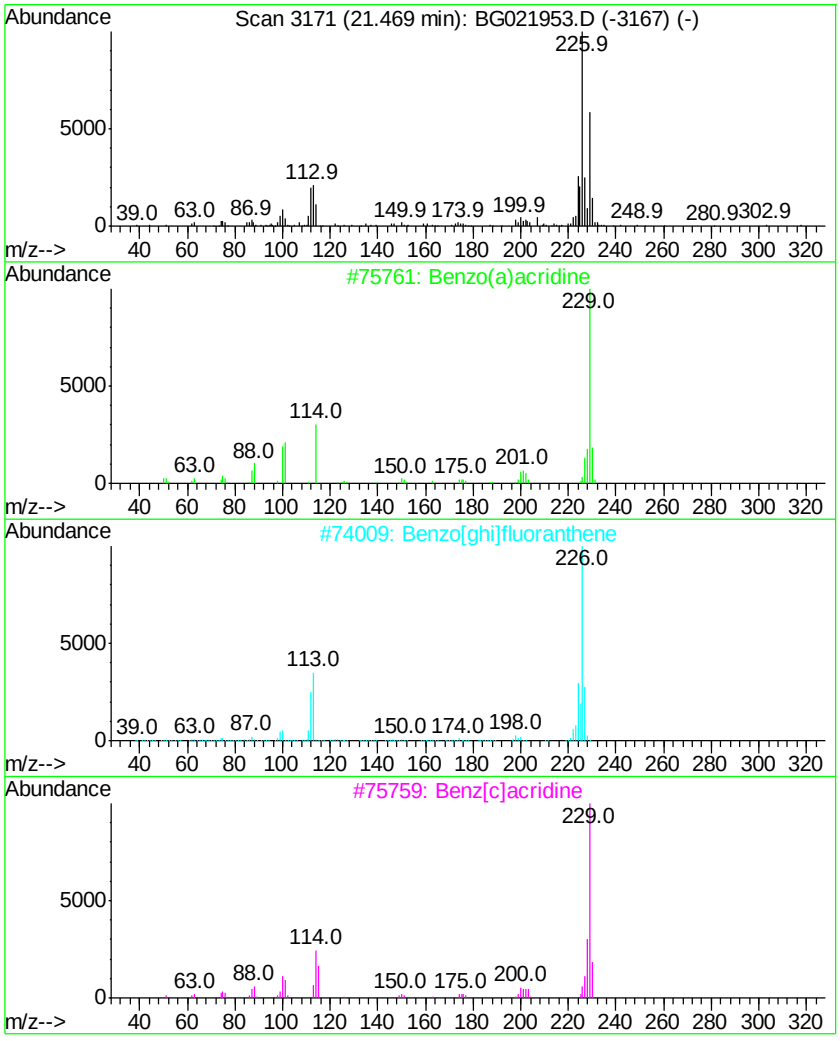
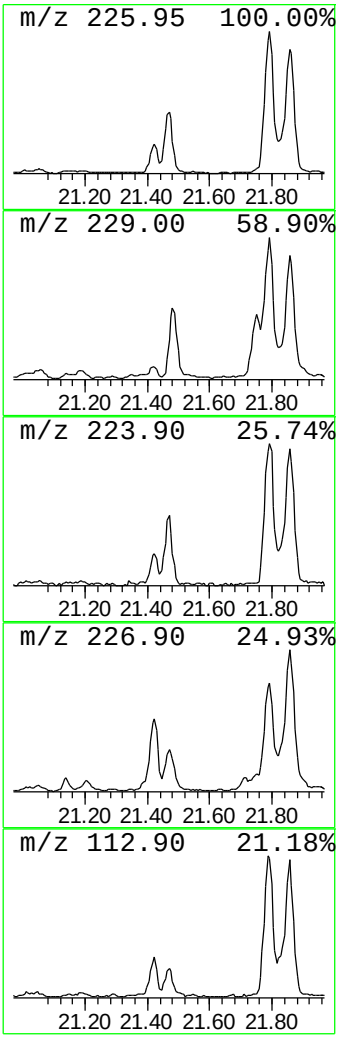
Peak Number 26 Benzo(a)acridine Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.47	2.31 ng/ul	250893	Chrysene-d12	21.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo(a)acridine	229	C17H11N	000225-11-6	50
2	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	50
3	Benz[c]acridine	229	C17H11N	000225-51-4	46
4	Benzo(a)acridine	229	C17H11N	000225-11-6	45
5	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	35





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Sample : H3096-06DL 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1DL

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Quant Title : SVOA CALIBRATION

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

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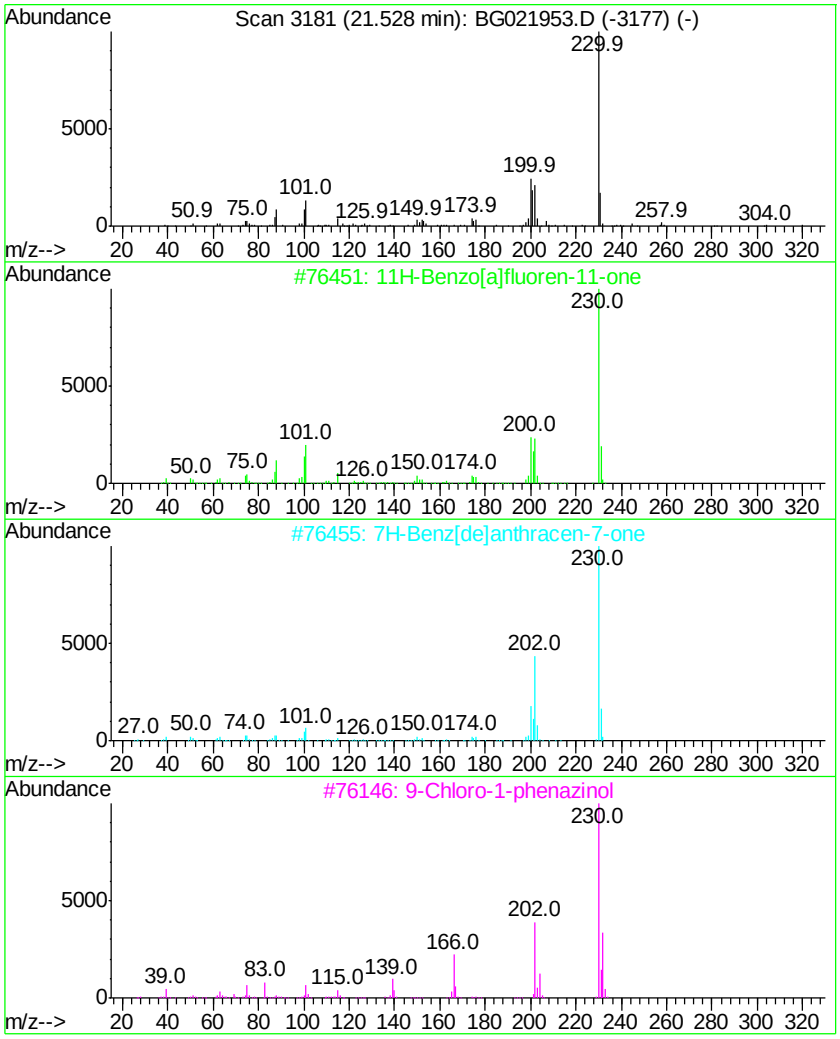
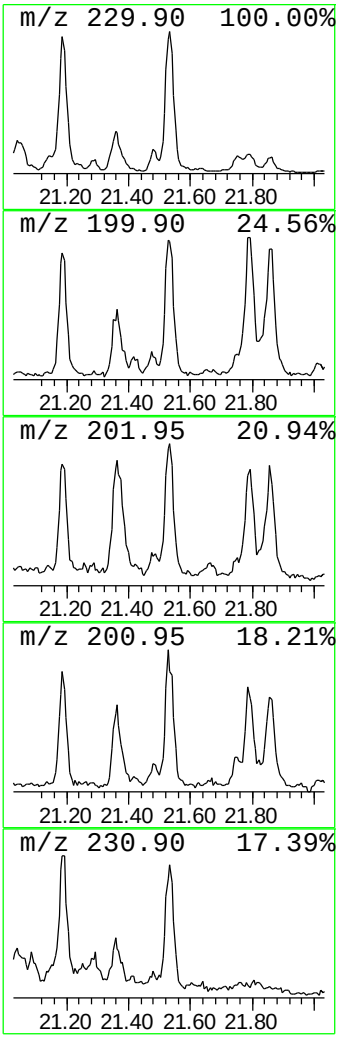
Peak Number 27 11H-Benzo[a]fluoren-11-one Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.53	2.40 ng/ul	261301	Chrysene-d12	21.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	94
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	81
3	9-Chloro-1-phenazinol	230	C12H7ClN2O	091268-03-0	59
4	o-Terphenyl	230	C18H14	000084-15-1	53
5	o-Terphenyl	230	C18H14	000084-15-1	53





Library Search Compound Report

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Data File : BG021953.D
Acq On : 19 May 2016 4:38
Operator : UM/SJ
Sample : H3096-06DL 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

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

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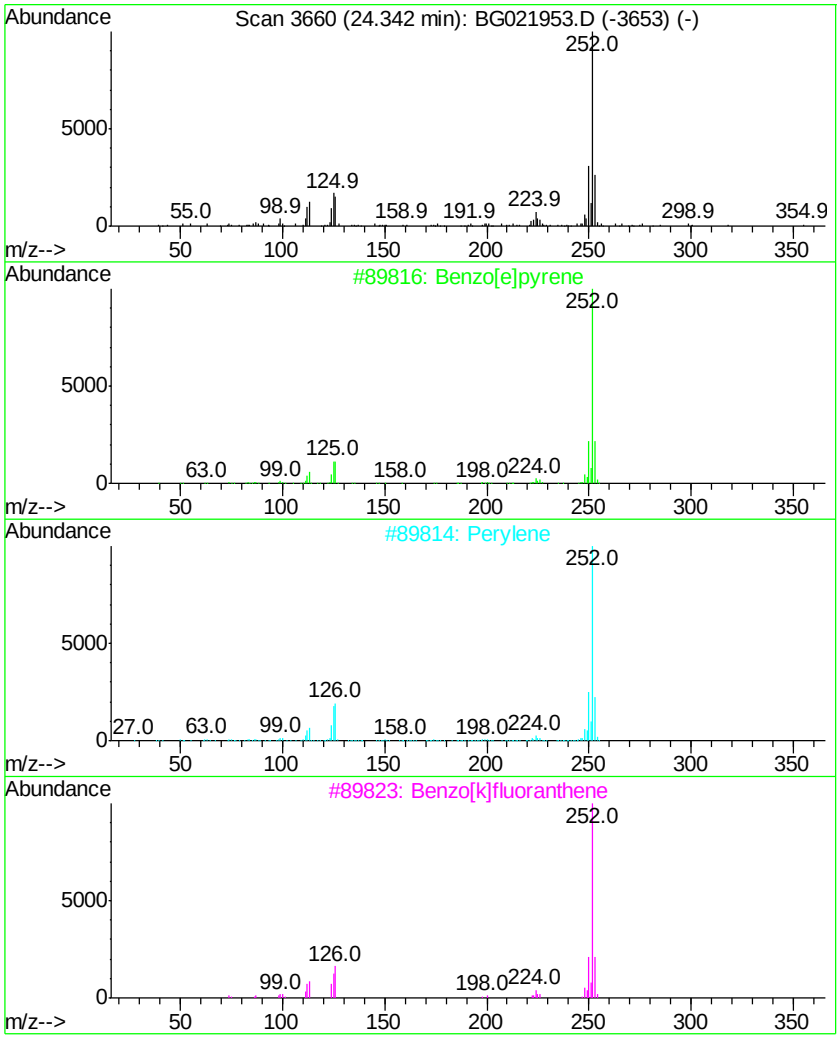
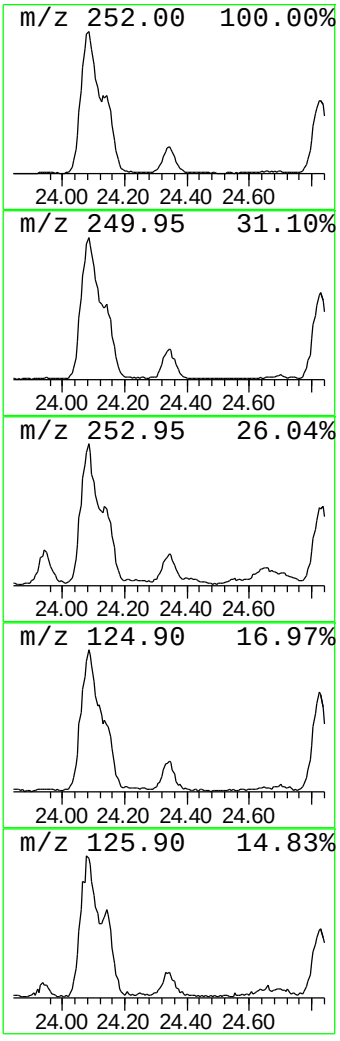
Peak Number 28 Benzo[e]pyrene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.34	4.67 ng/ul	152224	Perylene-d12	25.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	95
2	Perylene	252	C20H12	000198-55-0	95
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	89
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	81





Library Search Compound Report

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Operator : UM/SJ
Sample : H3096-06DL 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

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

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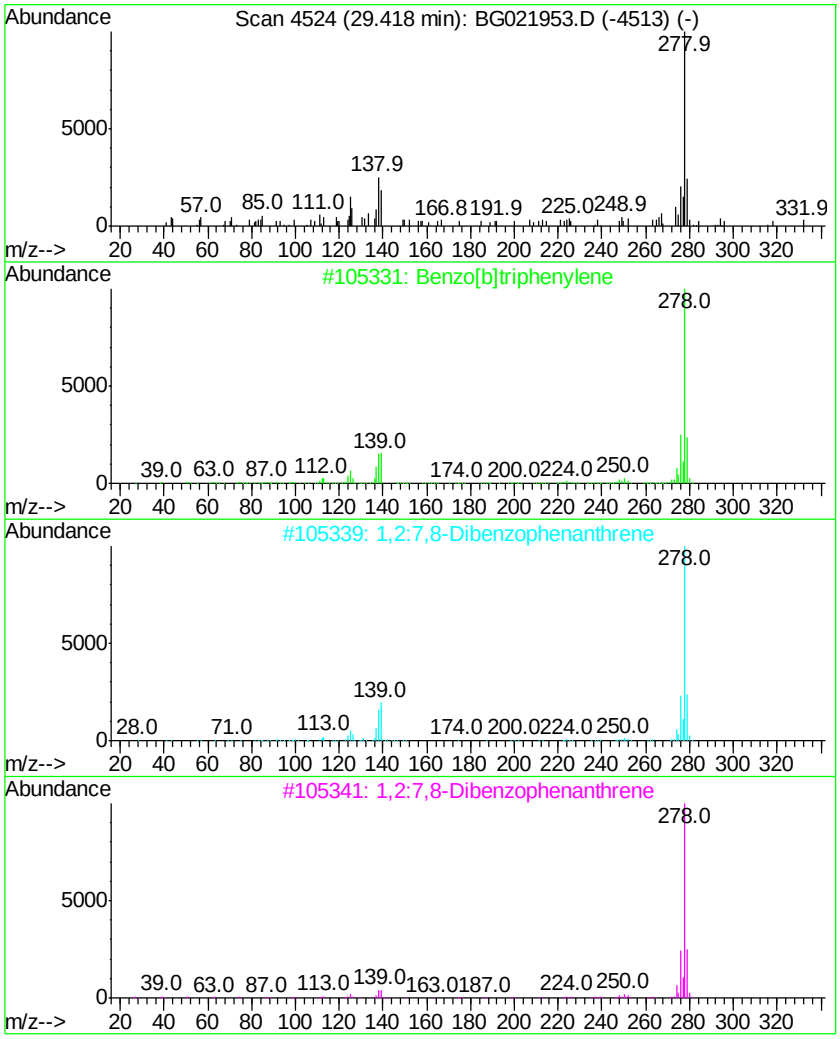
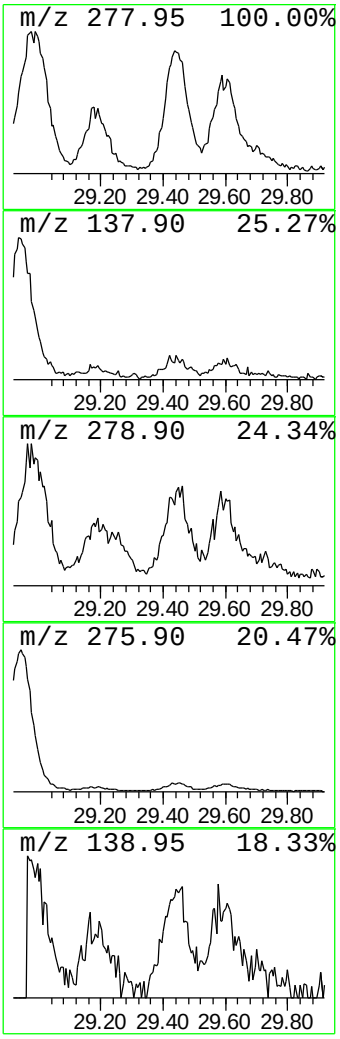
Peak Number 30 Benzo[b]triphenylene Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
29.42	2.12 ng/ul	69041	Perylene-d12	25.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	95
2	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	94
3	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	89
4	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	76
5	Naphtho[1,2-a]anthracene	278	C22H14	000195-06-2	70





Tentatively Identified Compound (LSC) summary

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Data File : BG021953.D
Acq On : 19 May 2016 4:38
Operator : UM/SJ
Sample : H3096-06DL 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Naphthalene, 1,3-...	14.11	2.4	ng/ul	63723	3	14.78	538624	20.0
Acetamide, N-cycl...	15.99	2.3	ng/ul	60928	3	14.78	538624	20.0
9H-Fluoren-9-ol	16.12	2.8	ng/ul	74123	3	14.78	538624	20.0
6H-Dibenzo[b,d]-p...	16.26	3.6	ng/ul	110704	4	17.53	610714	20.0
9H-Fluorene, 2-me...	16.83	4.2	ng/ul	128314	4	17.53	610714	20.0
9H-Fluoren-9-one	17.18	4.7	ng/ul	143063	4	17.53	610714	20.0
Phenol, 3-(2-phen...	17.26	2.6	ng/ul	80861	4	17.53	610714	20.0
Dibenzothiophene	17.34	5.3	ng/ul	163046	4	17.53	610714	20.0
5H-Indeno[1,2-b]p...	17.93	17.6	ng/ul	538568	4	17.53	610714	20.0
Phenanthrene, 2-m...	18.40	8.5	ng/ul	258785	4	17.53	610714	20.0
Phenanthrene, 1-m...	18.45	11.7	ng/ul	356829	4	17.53	610714	20.0
Anthracene, 2-met...	18.53	4.3	ng/ul	131321	4	17.53	610714	20.0
4H-Cyclopenta[def...	18.60	16.9	ng/ul	514511	4	17.53	610714	20.0
5,16[1',2']:8,13[...	18.89	5.6	ng/ul	170680	4	17.53	610714	20.0
9,10-Anthracenedione	18.94	4.5	ng/ul	138221	4	17.53	610714	20.0
Phenanthrene, 2,3...	19.14	2.4	ng/ul	72157	4	17.53	610714	20.0
Phenanthrene, 2,5...	19.30	5.0	ng/ul	151383	4	17.53	610714	20.0
Cyclopenta(def)ph...	19.45	3.9	ng/ul	120237	4	17.53	610714	20.0
9-Cyanophenanthrene	19.67	2.4	ng/ul	73340	4	17.53	610714	20.0
Pyrene, 1-methyl-	20.25	2.2	ng/ul	241145	5	21.81	2175070	20.0
11H-Benzo[b]fluorene	20.42	3.3	ng/ul	357834	5	21.81	2175070	20.0
Fluoranthene, 2-m...	20.52	2.3	ng/ul	245178	5	21.81	2175070	20.0
Benzo[b]naphtho[1...	21.37	2.7	ng/ul	292432	5	21.81	2175070	20.0
Benzo(a)acridine	21.47	2.3	ng/ul	250893	5	21.81	2175070	20.0
11H-Benzo[a]fluor...	21.53	2.4	ng/ul	261301	5	21.81	2175070	20.0
Benzo[e]pyrene	24.34	4.7	ng/ul	152224	6	25.14	652567	20.0
Benzo[b]triphenylene	29.42	2.1	ng/ul	69041	6	25.14	652567	20.0