LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051516\
Data File : BG021894.D
Acq On : 15 May 2016 15:34
Operator : UM/SJ
Sample : H3096-06
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1

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-BG050916.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	8.167	898	907	917	rBV	144766	291357	1.66%	0.144%
2	10.599	1315	1321	1332	rVB	171556	343957	1.96%	0.170%
3	10.981	1378	1386	1390	rBV	265541	555825	3.16%	0.274%
4	11.034	1390	1395	1403	rVV	897254	1852015	10.53%	0.914%
5	11.116	1403	1409	1428	rVB3	98135	272347	1.55%	0.134%
6	12.632	1658	1667	1678	rBV	484380	904594	5.15%	0.446%
7	12.844	1694	1703	1712	rVB	310610	591990	3.37%	0.292%
8	13.625	1829	1836	1848	rVB	154979	301875	1.72%	0.149%
9	13.966	1881	1894	1902	rBV2	168118	472843	2.69%	0.233%
10	14.107	1908	1918	1924	rBV	265929	556252	3.16%	0.275%
11	14.183	1924	1931	1936	rVV2	360522	854300	4.86%	0.422%
12	14.236	1936	1940	1947	rVV	175655	291557	1.66%	0.144%
13	14.348	1954	1959	1970	rVB2	123291	269132	1.53%	0.133%
14	14.483	1975	1982	1993	rBV	485429	1009092	5.74%	0.498%
15	14.788	2030	2034	2039	rVB2	401649	667363	3.80%	0.329%
16	14.853	2039	2045	2052	rVB	1408906	2452147	13.95%	1.210%
17	15.188	2094	2102	2109	rBV	933867	1688381	9.60%	0.833%
18	15.781	2192	2203	2207	rVV	603135	1163849	6.62%	0.574%
19	15.840	2207	2213	2220	rVV	1955059	3442940	19.58%	1.699%
20	15.916	2220	2226	2230	rVV2	135265	332073	1.89%	0.164%
21	15.958	2230	2233	2236	rVV	172197	282388	1.61%	0.139%
22	15.999	2236	2240	2244	rVV	247553	421123	2.40%	0.208%
23	16.122	2257	2261	2270	rVB	328782	600105	3.41%	0.296%
24	16.269	2270	2286	2295	rBV	391315	981596	5.58%	0.484%
25	16.833	2370	2382	2387	rBV3	366488	992182	5.64%	0.490%
26	16.880	2387	2390	2396	rVV2	181461	327811	1.86%	0.162%
27	17.056	2412	2420	2424	rBV2	153667	368536	2.10%	0.182%
28	17.103	2424	2428	2436	rVV2	183732	415569	2.36%	0.205%
29	17.191	2437	2443	2449	rVV	603229	1053731	5.99%	0.520%
30	17.262	2449	2455	2462	rVV3	221599	540859	3.08%	0.267%
31	17.350	2465	2470	2479	rVB	679387	1212425	6.90%	0.598%
32	17.597	2495	2512	2517	rBV	7780624	17580964	100.00%	8.677%
33	17.644	2517	2520	2522	rVV2	907018	1383469	7.87%	0.683%
34	17.679	2522	2526	2531	rVV	2842475	4578782	26.04%	2.260%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051516\
Data File : BG021894.D
Acq On : 15 May 2016 15:34
Operator : UM/SJ
Sample : H3096-06
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1

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-BG050916.M
Title : SVOA CALIBRATION

35	17.726	2531	2534	2544	rVB	293808	497712	2.83%	0.246%
36	17.938	2559	2570	2579	rBV2	1780237	3859267	21.95%	1.905%
37	18.049	2585	2589	2596	rBV2	165748	318576	1.81%	0.157%
38	18.114	2596	2600	2608	rVB3	180408	339434	1.93%	0.168%
39	18.408	2641	2650	2654	rVV	1192553	2101670	11.95%	1.037%
40	18.460	2654	2659	2665	rVV2	1668063	2763028	15.72%	1.364%
41	18.537	2665	2672	2677	rVV	637205	1088800	6.19%	0.537%
42	18.607	2677	2684	2695	rVV3	1955375	4916390	27.96%	2.427%
43	18.707	2695	2701	2704	rVV2	208110	373789	2.13%	0.184%
44	18.748	2704	2708	2713	rVV2	253342	404234	2.30%	0.200%
45	18.901	2728	2734	2738	rVV	866260	1380302	7.85%	0.681%
46	18.948	2738	2742	2750	rVV	605315	994082	5.65%	0.491%
47	19.142	2771	2775	2780	rBV4	207270	314453	1.79%	0.155%
48	19.230	2787	2790	2798	rVB2	209603	287272	1.63%	0.142%
49	19.312	2798	2804	2809	rBV	532163	1064691	6.06%	0.525%
50	19.383	2811	2816	2819	rBV3	168992	288043	1.64%	0.142%
51	19.465	2824	2830	2838	rVB2	411154	877006	4.99%	0.433%
52	19.600	2843	2853	2858	rBV	8047953	16795098	95.53%	8.289%
53	19.677	2862	2866	2871	rVB	355240	557721	3.17%	0.275%
54	19.777	2878	2883	2886	rBV3	150618	279590	1.59%	0.138%
55	19.824	2887	2891	2901	rVB2	412860	907254	5.16%	0.448%
56	19.959	2901	2914	2919	rBV3	6746645	17448335	99.25%	8.612%
57	20.012	2919	2923	2929	rVB	537975	876874	4.99%	0.433%
58	20.117	2929	2941	2946	rBV	542039	1122051	6.38%	0.554%
59	20.182	2946	2952	2958	rVB	651291	1122500	6.38%	0.554%
60	20.258	2958	2965	2971	rBV3	736458	1914008	10.89%	0.945%
61	20.317	2971	2975	2981	rVV	369913	568543	3.23%	0.281%
62	20.388	2982	2987	2990	rVV2	525131	1062169	6.04%	0.524%
63	20.429	2990	2994	2999	rVV	1672680	2754784	15.67%	1.360%
64	20.529	3006	3011	3015	rVV	1241247	1937147	11.02%	0.956%
65	20.587	3015	3021	3025	rVV2	887097	2002314	11.39%	0.988%
66	20.623	3025	3027	3031	rVV	488972	654511	3.72%	0.323%
67	20.664	3031	3034	3039	rVV2	247571	386474	2.20%	0.191%
68	20.728	3040	3045	3048	rVV	503370	758069	4.31%	0.374%
69	20.770	3048	3052	3063	rVB3	482513	932103	5.30%	0.460%
70	21.022	3085	3095	3098	rBV8	308740	902519	5.13%	0.445%
71	21.157	3113	3118	3121	rBV3	199135	365697	2.08%	0.180%

LSC Area Percent Report

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Acq On : 15 May 2016 15:34
Operator : UM/SJ
Sample : H3096-06
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1

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-BG050916.M
Title : SVOA CALIBRATION

72	21.204	3121	3126	3132	rVB	897991	1537538	8.75%	0.759%
73	21.392	3150	3158	3162	rBV3	1123467	2399768	13.65%	1.184%
74	21.433	3162	3165	3169	rVV	880038	1389670	7.90%	0.686%
75	21.492	3169	3175	3180	rVV3	963862	1977157	11.25%	0.976%
76	21.551	3180	3185	3196	rVB	996052	2086335	11.87%	1.030%
77	21.680	3198	3207	3215	rBV	336614	921141	5.24%	0.455%
78	21.821	3217	3231	3236	rVV3	4642310	12632603	71.85%	6.235%
79	21.886	3237	3242	3253	rVB	3715118	7693910	43.76%	3.797%
80	22.039	3262	3268	3275	rBV	791255	1488167	8.46%	0.734%
81	22.103	3276	3279	3284	rVV4	235489	546476	3.11%	0.270%
82	22.180	3288	3292	3297	rVV	451482	827905	4.71%	0.409%
83	22.250	3297	3304	3310	rVV2	719656	1513072	8.61%	0.747%
84	22.497	3341	3346	3350	rBV2	186171	358695	2.04%	0.177%
85	22.579	3352	3360	3366	rVV	691481	1723047	9.80%	0.850%
86	22.650	3368	3372	3380	rVB	371865	779890	4.44%	0.385%
87	22.802	3394	3398	3403	rVB4	189345	344018	1.96%	0.170%
88	22.861	3403	3408	3413	rBV	338973	756509	4.30%	0.373%
89	23.002	3426	3432	3440	rVB4	311921	711818	4.05%	0.351%
90	23.284	3476	3480	3486	rBV5	133889	325706	1.85%	0.161%
91	23.719	3547	3554	3570	rVB4	305670	1078794	6.14%	0.532%
92	24.136	3610	3625	3631	rBV2	2632039	10777080	61.30%	5.319%
93	24.377	3659	3666	3676	rVB	572968	1432775	8.15%	0.707%
94	24.589	3696	3702	3716	rBV4	152258	733591	4.17%	0.362%
95	24.882	3740	3752	3762	rBV2	1294073	4870595	27.70%	2.404%
96	25.041	3769	3779	3790	rVB	2214640	7052405	40.11%	3.481%
97	25.176	3795	3802	3808	rVV3	362846	1188742	6.76%	0.587%
98	25.264	3809	3817	3831	rVB3	710055	2606696	14.83%	1.287%
99	29.042	4446	4460	4482	rVB4	920507	5548021	31.56%	2.738%
100	30.241	4648	4664	4677	rBV2	562174	3038155	17.28%	1.500%

Sum of corrected areas: 202610218

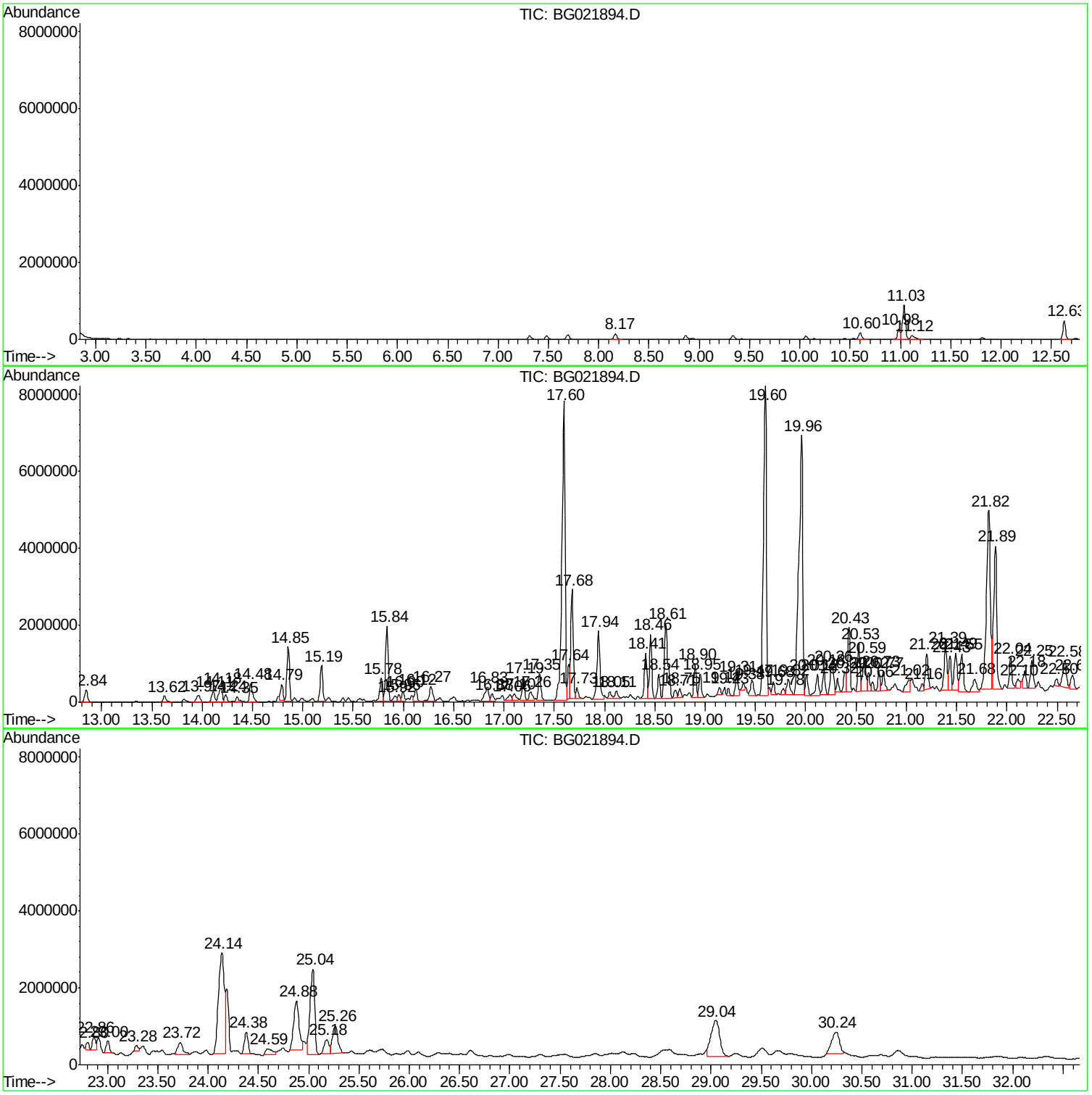
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051516\
Data File : BG021894.D
Acq On : 15 May 2016 15:34
Operator : UM/SJ
Sample : H3096-06
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

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



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051516\
Data File : BG021894.D
Acq On : 15 May 2016 15:34
Operator : UM/SJ
Sample : H3096-06
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

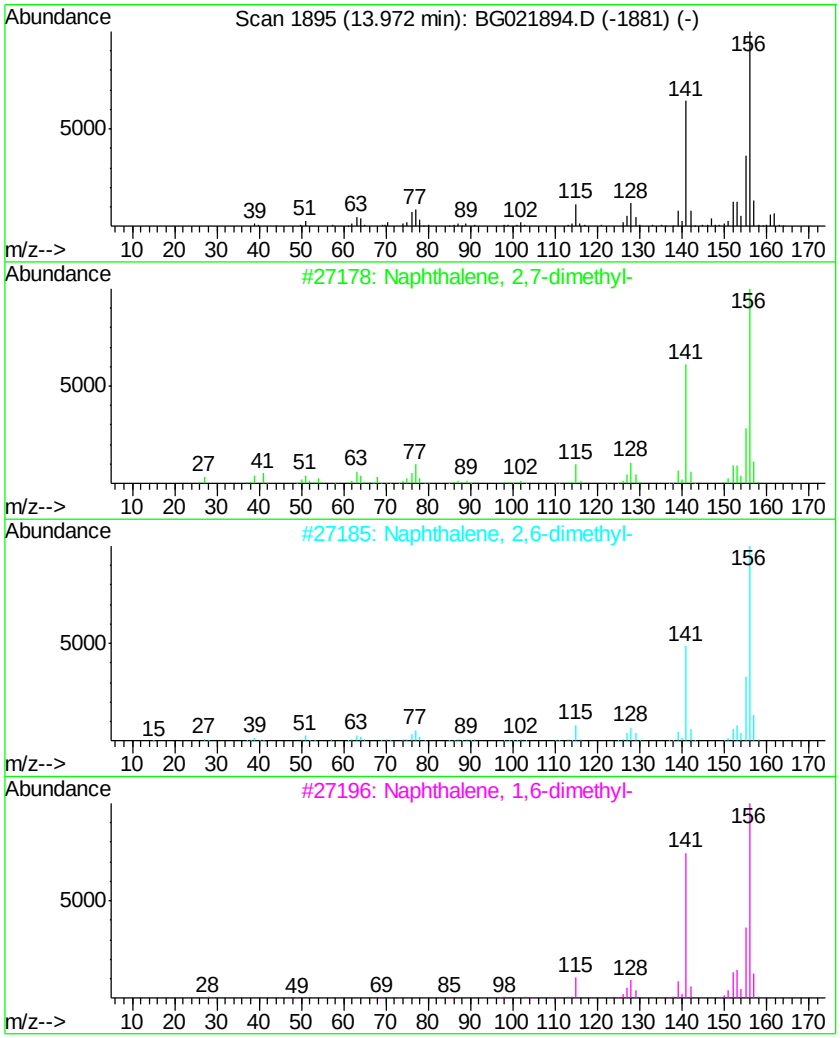
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

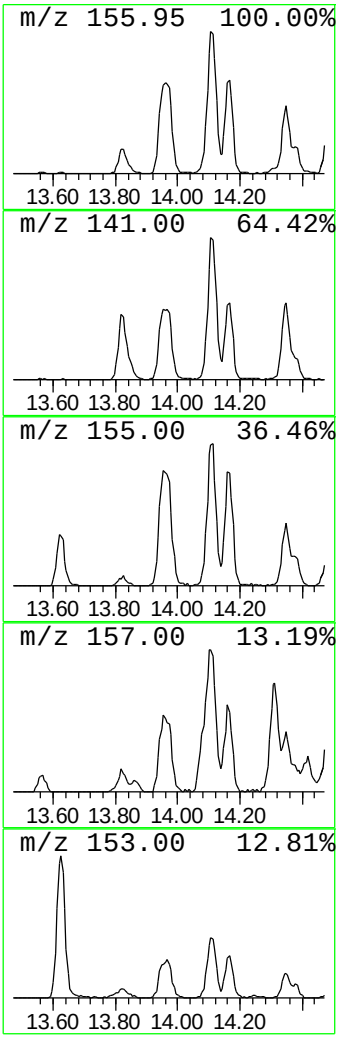
****

Peak Number 1 Naphthalene, 2,7-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.97	14.17 ng/ul	472843	Acenaphthene-d10	14.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
2	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
5	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051516\
Data File : BG021894.D
Acq On : 15 May 2016 15:34
Operator : UM/SJ
Sample : H3096-06
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

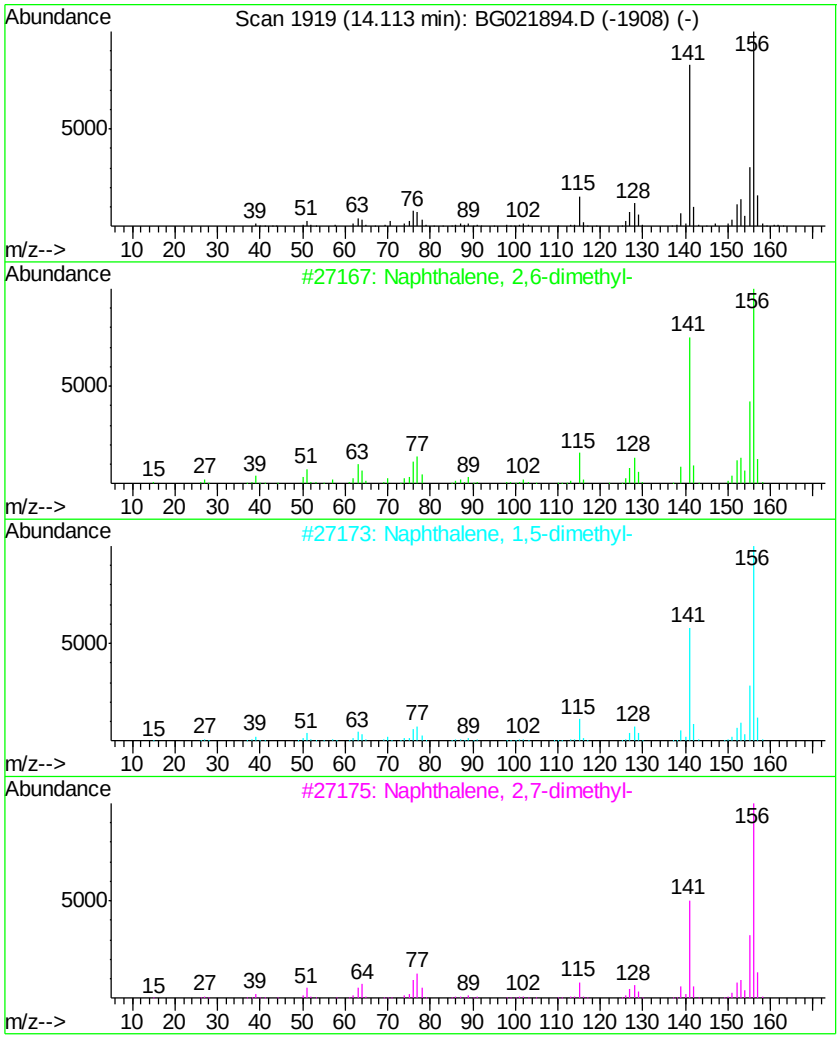
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

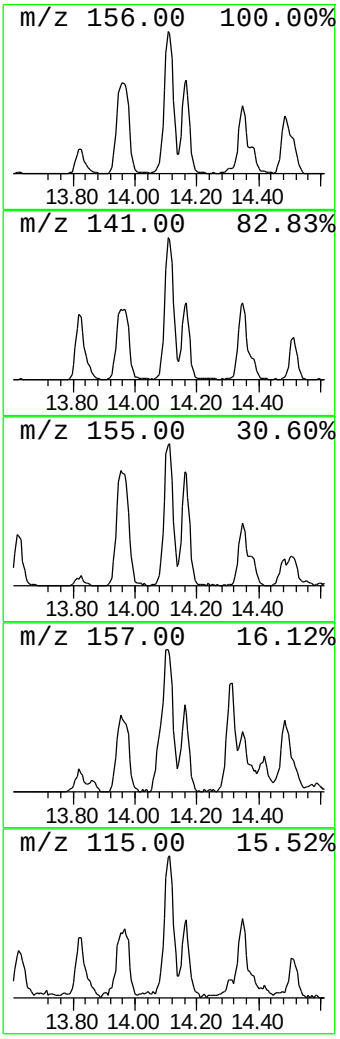
****

Peak Number 2 Naphthalene, 2,6-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.11	16.67 ng/ul	556252	Acenaphthene-d10	14.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
2	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
3	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
5	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051516\
Data File : BG021894.D
Acq On : 15 May 2016 15:34
Operator : UM/SJ
Sample : H3096-06
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

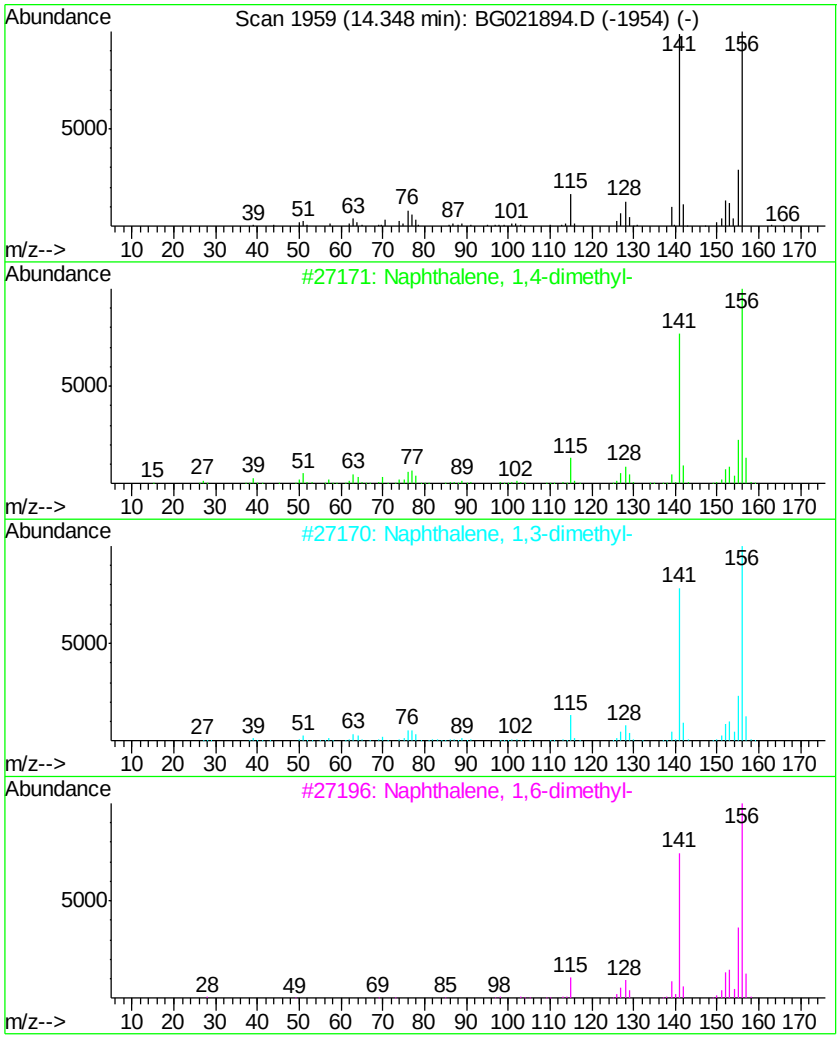
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

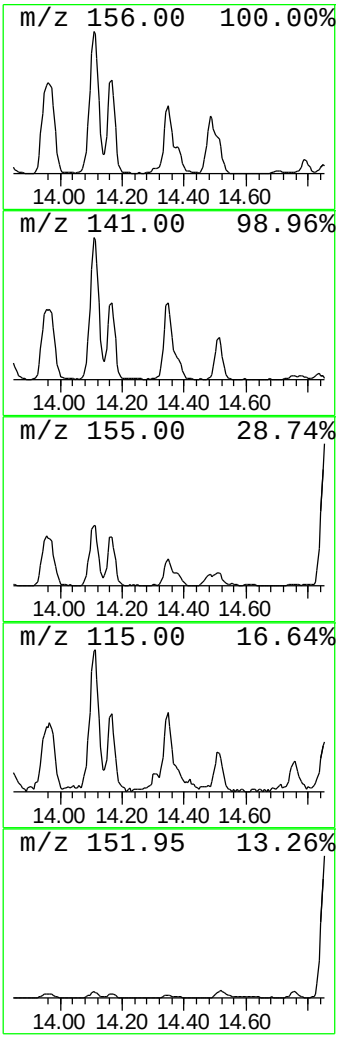
****

Peak Number 3 Naphthalene, 1,4-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.35	8.07 ng/ul	269132	Acenaphthene-d10	14.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	94
2	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	94
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	94
4	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	94
5	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	94





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051516\
Data File : BG021894.D
Acq On : 15 May 2016 15:34
Operator : UM/SJ
Sample : H3096-06
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

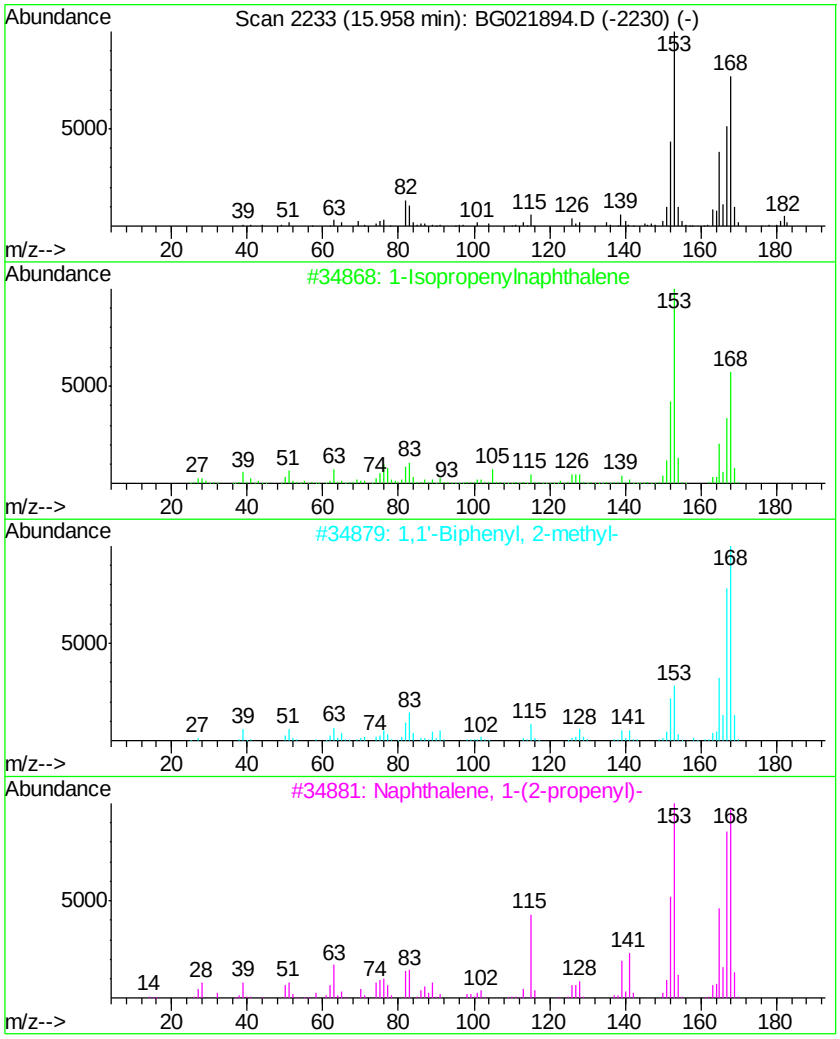
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

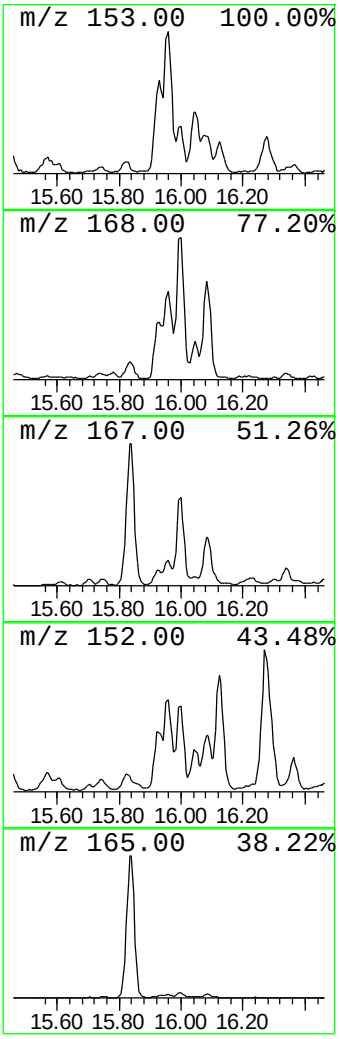
****

Peak Number 5 1-Isopropenylnaphthalene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.96	8.46 ng/ul	282388	Acenaphthene-d10	14.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	74
2	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	70
3	Naphthalene, 1-(2-propenyl)-	168	C13H12	002489-86-3	62
4	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	53
5	Naphthalene, 2-(1-methylethenyl)-	168	C13H12	003710-23-4	50





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051516\
Data File : BG021894.D
Acq On : 15 May 2016 15:34
Operator : UM/SJ
Sample : H3096-06
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

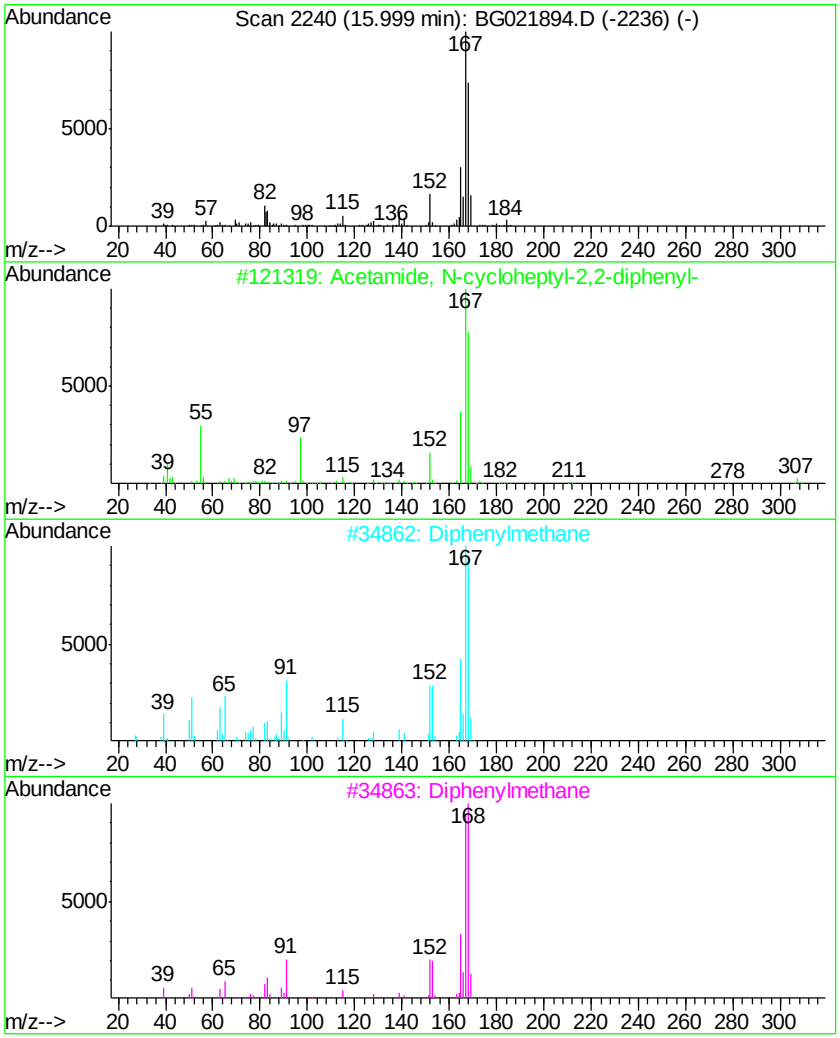
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

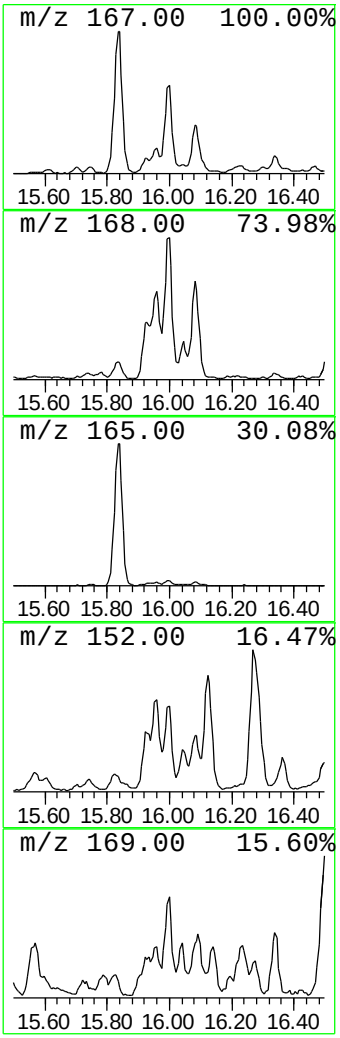
****

Peak Number 6 Acetamide, N-cycloheptyl-2,... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.00	12.62 ng/ul	421123	Acenaphthene-d10	14.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetamide, N-cycloheptyl-2,2-dip...	307	C21H25NO	351062-01-6	72
2	Diphenylmethane	168	C13H12	000101-81-5	72
3	Diphenylmethane	168	C13H12	000101-81-5	72
4	Diphenylmethane	168	C13H12	000101-81-5	53
5	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	53





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Acq On : 15 May 2016 15:34
Operator : UM/SJ
Sample : H3096-06
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1

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Quant Title : SVOA CALIBRATION

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

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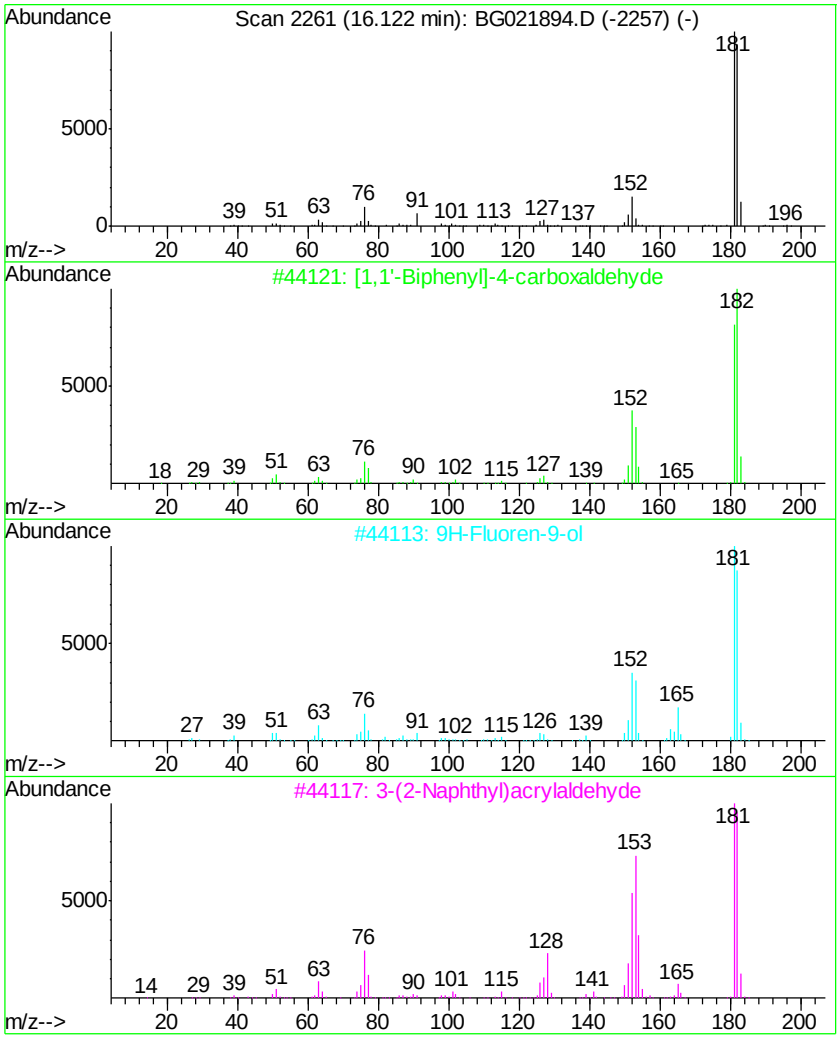
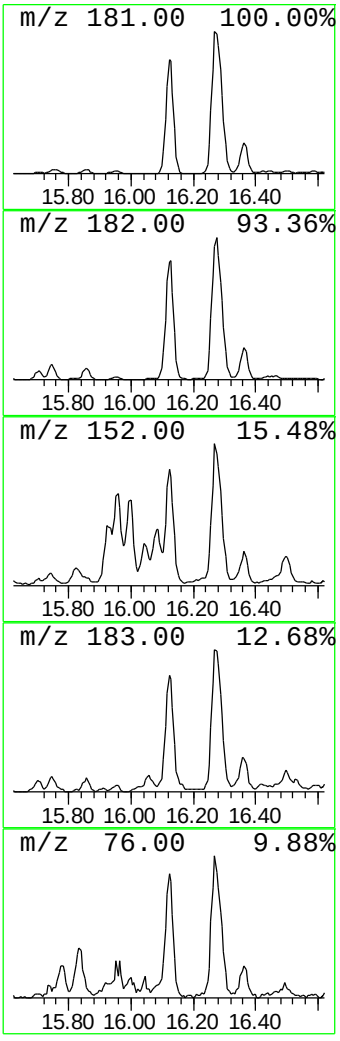
Peak Number 7 [1,1'-Biphenyl]-4-carboxald... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.12	17.98 ng/ul	600105	Acenaphthene-d10	14.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	80
2	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
3	3-(2-Naphthyl)acrylaldehyde	182	C13H10O	020884-05-3	78
4	Pyridine, 4,4'-(1,2-ethenediyl)b...	182	C12H10N2	013362-78-2	72
5	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	64





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Sample : H3096-06
Misc :
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Instrument : BNA_G
ClientSampleId : D9XG1

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Quant Title : SVOA CALIBRATION

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

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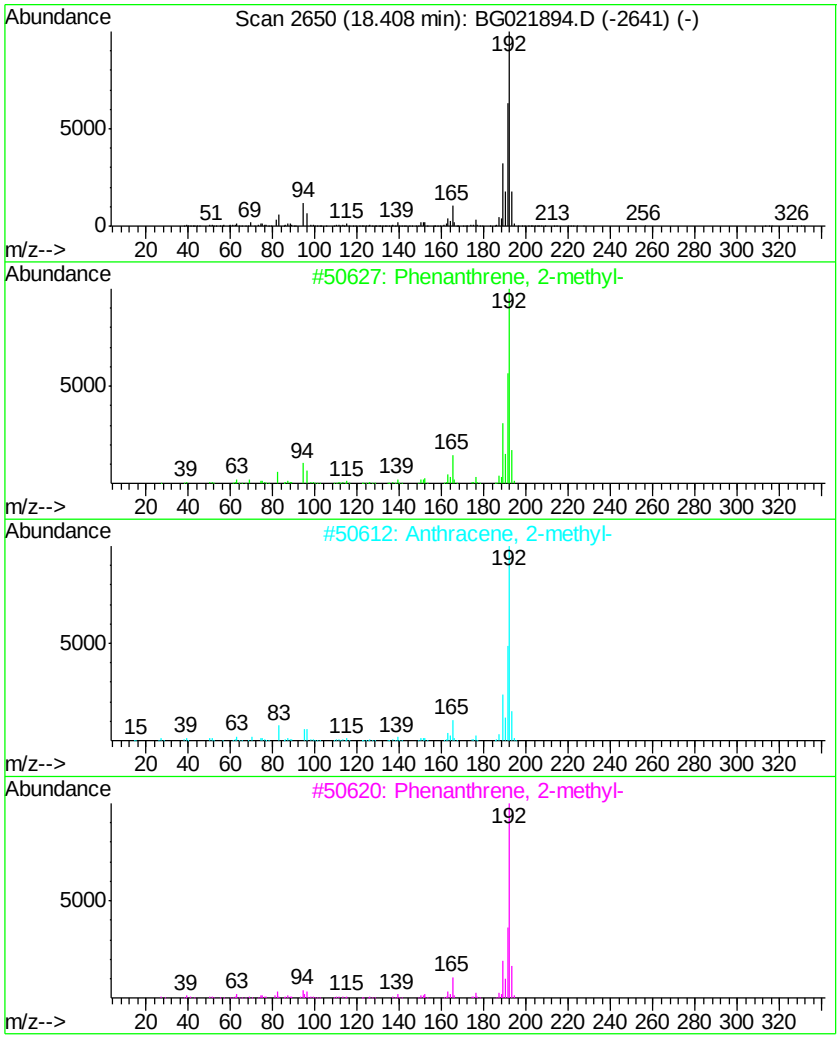
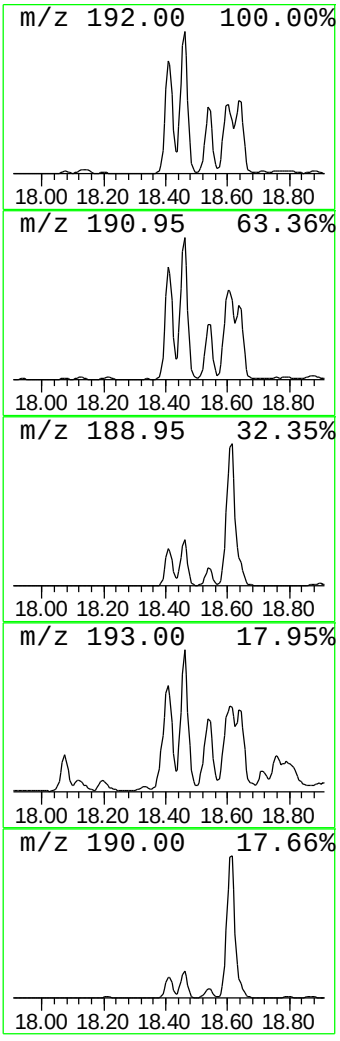
Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.41	2.39 ng/ul	2101670	Phenanthrene-d10	17.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90





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Sample : H3096-06
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

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

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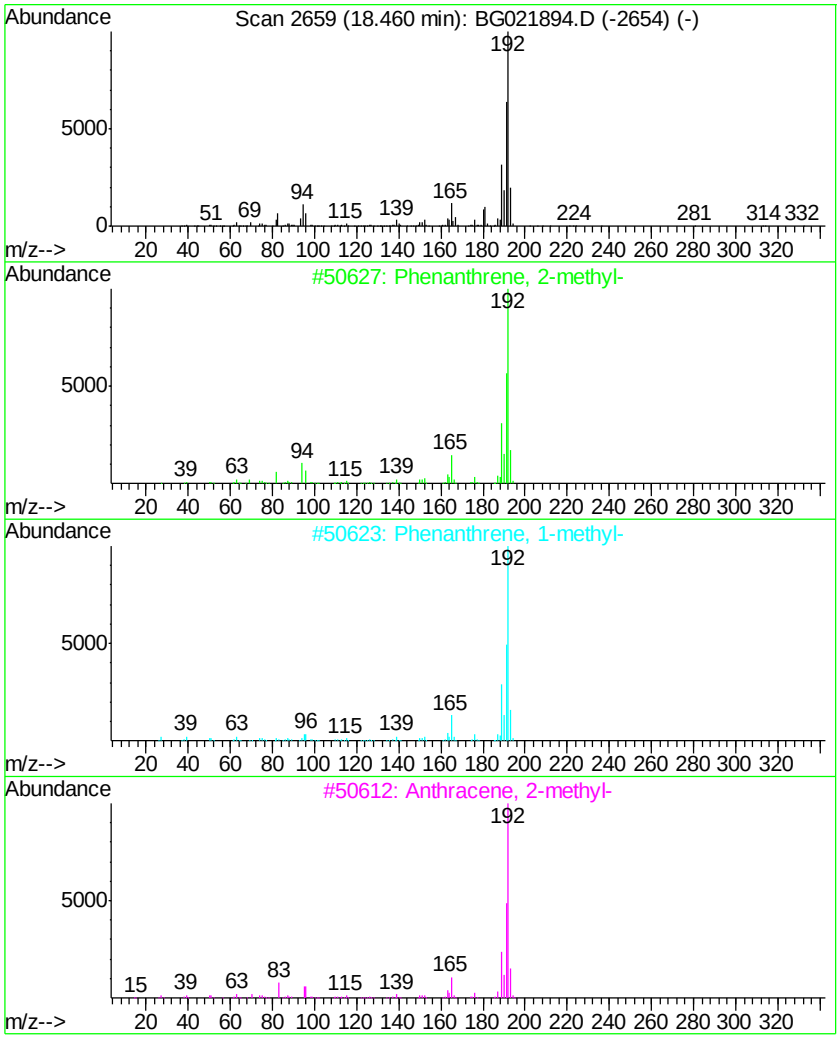
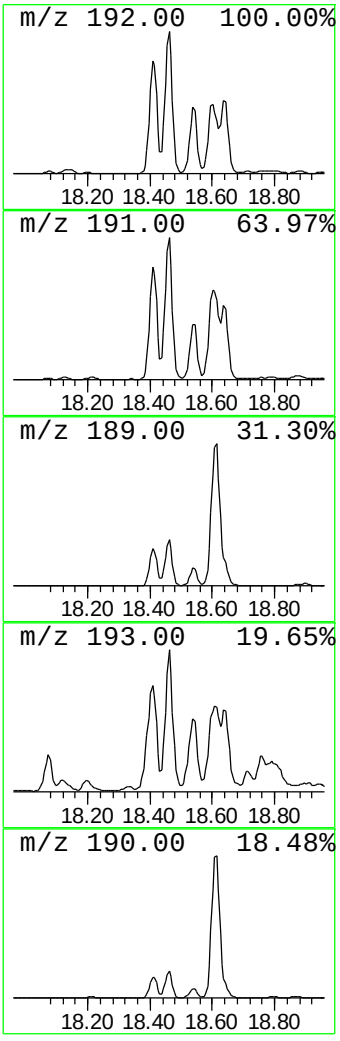
Peak Number 9 Phenanthrene, 1-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.46	3.14 ng/ul	2763030	Phenanthrene-d10	17.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
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	95
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93





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Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1

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Quant Title : SVOA CALIBRATION

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

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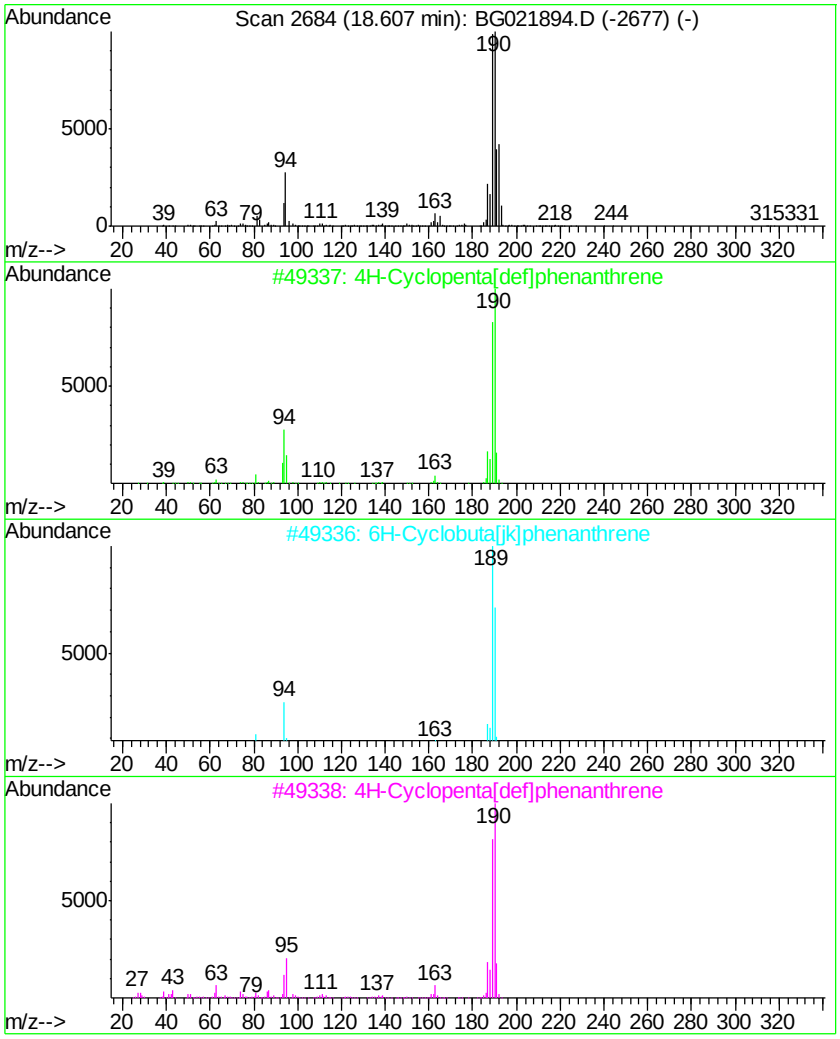
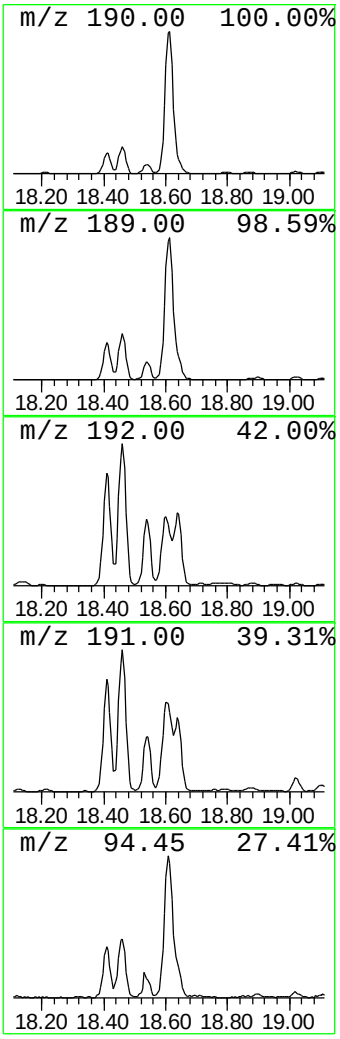
Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.61	5.59 ng/ul	4916390	Phenanthrene-d10	17.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	95
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	53
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	53
4	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	52
5	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	52





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ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1

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Quant Title : SVOA CALIBRATION

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

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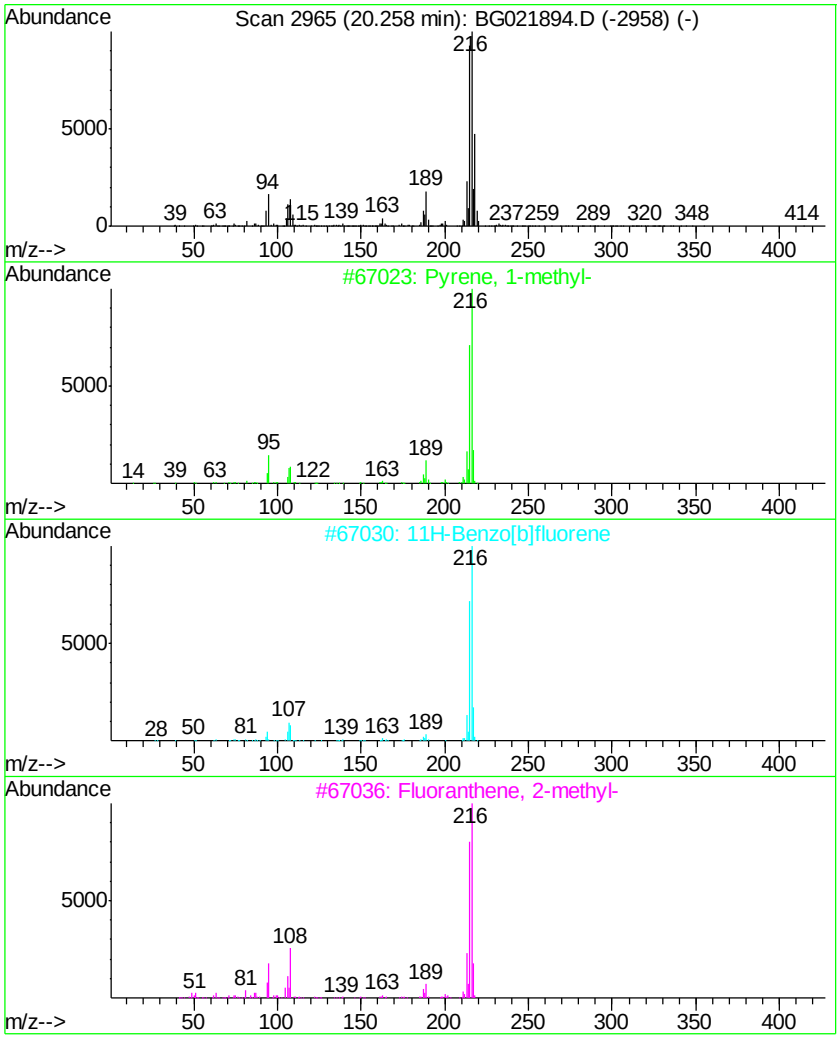
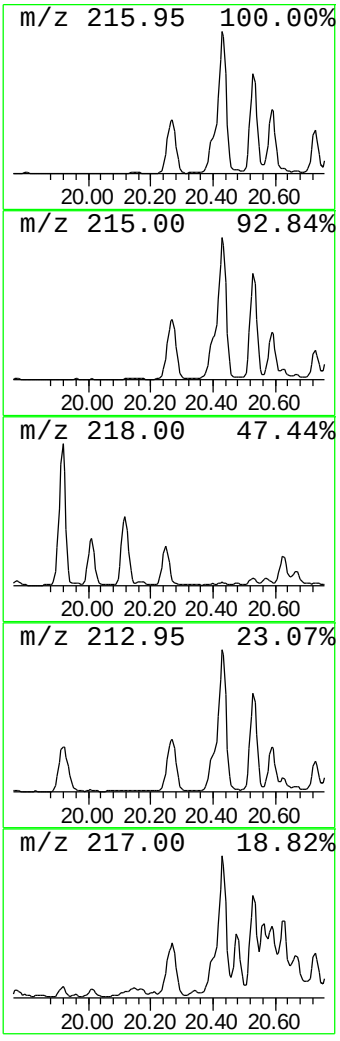
Peak Number 11 Pyrene, 1-methyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.26	3.03 ng/ul	1914010	Chrysene-d12	21.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	76





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Sample : H3096-06
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1

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Quant Title : SVOA CALIBRATION

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

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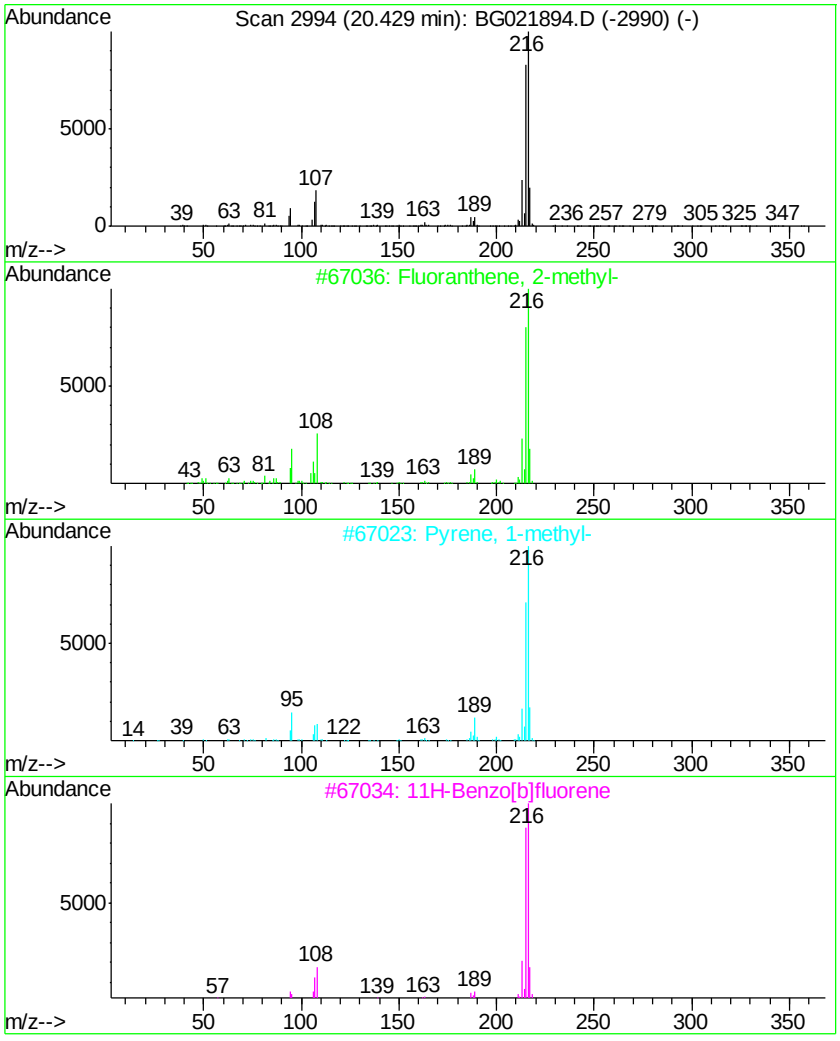
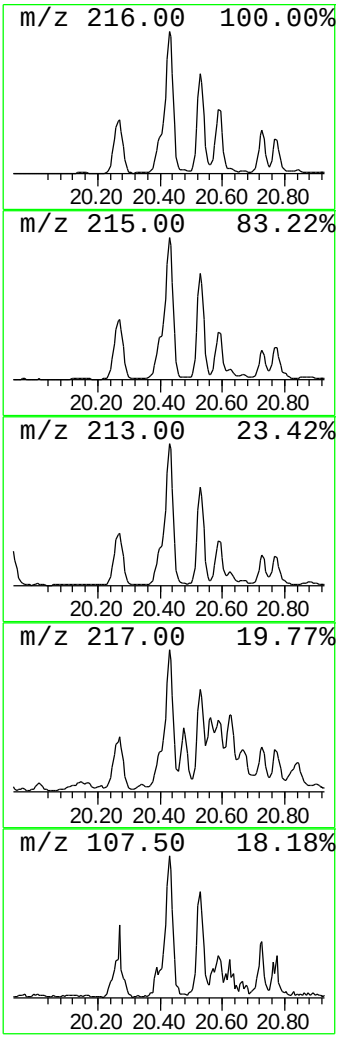
Peak Number 12 Fluoranthene, 2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.43	4.36 ng/ul	2754780	Chrysene-d12	21.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87





Library Search Compound Report

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Sample : H3096-06
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1

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Quant Title : SVOA CALIBRATION

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

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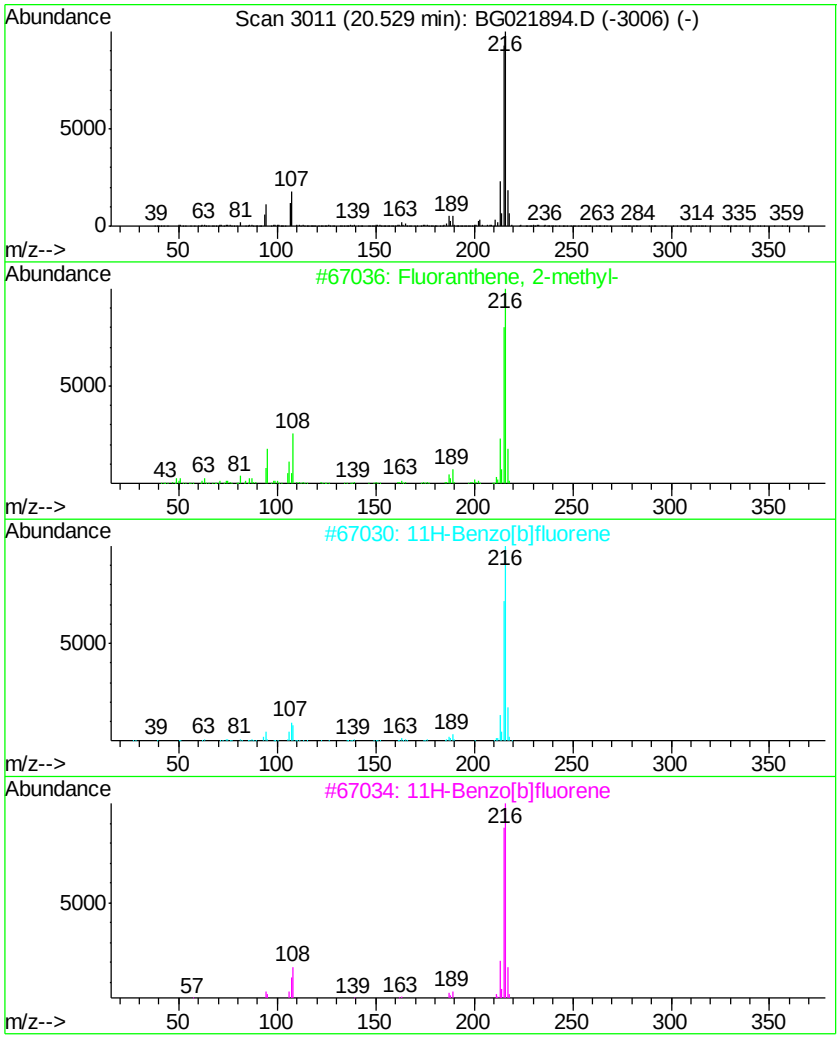
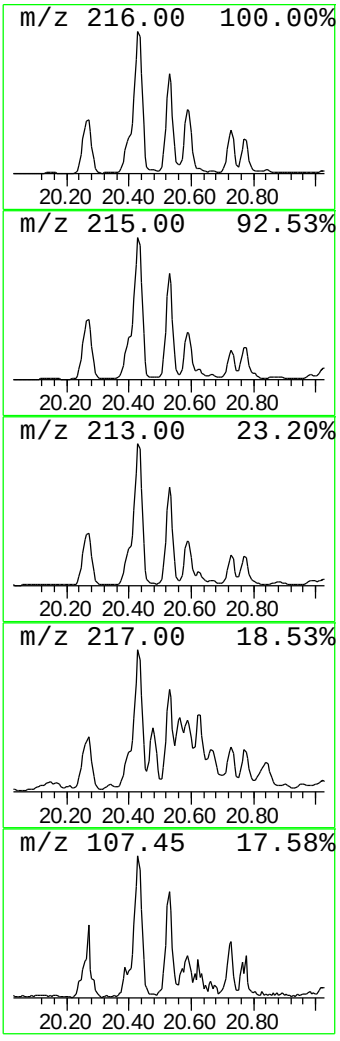
Peak Number 13 11H-Benzo[b]fluorene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.53	3.07 ng/ul	1937150	Chrysene-d12	21.83

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	90
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	83
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	83





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Sample : H3096-06
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1

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Quant Title : SVOA CALIBRATION

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

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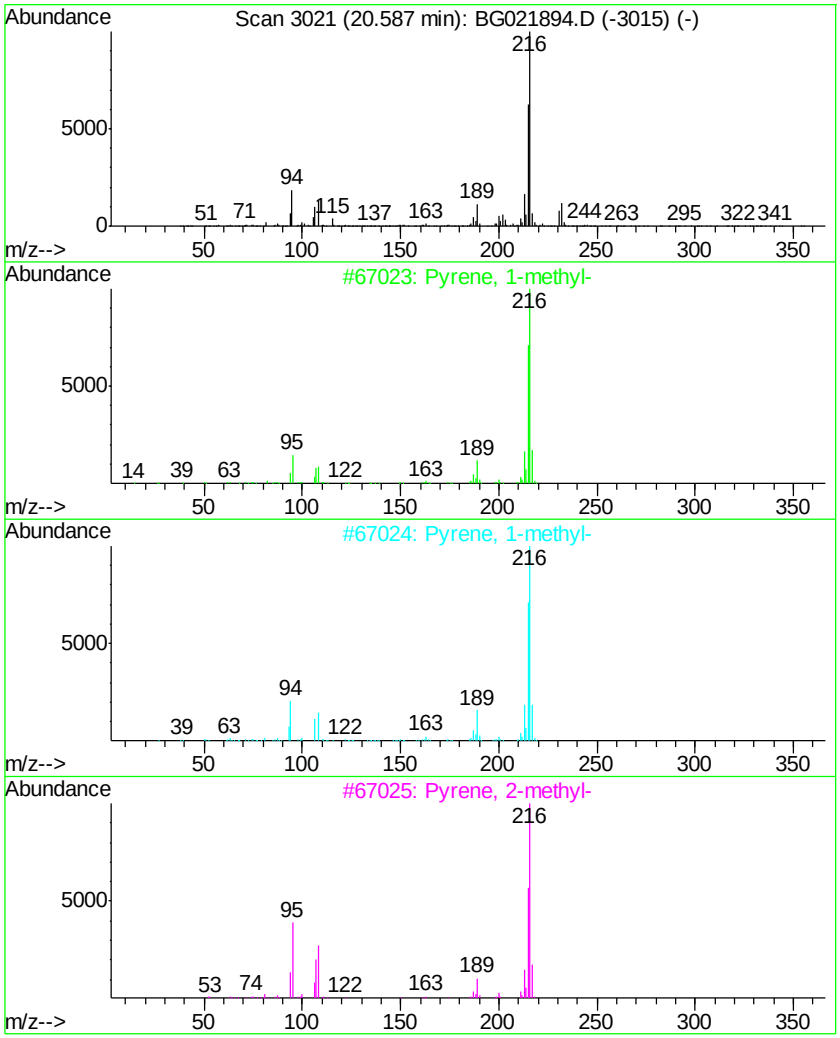
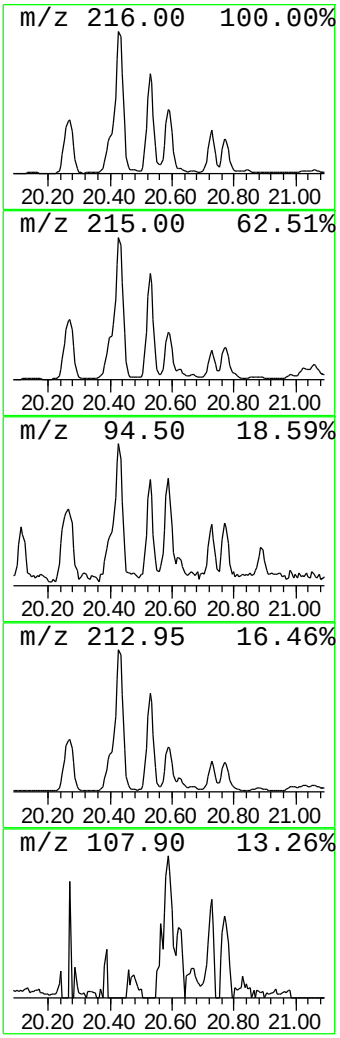
Peak Number 14 Pyrene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.59	3.17 ng/ul	2002310	Chrysene-d12	21.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	91
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	89





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Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1

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Quant Title : SVOA CALIBRATION

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

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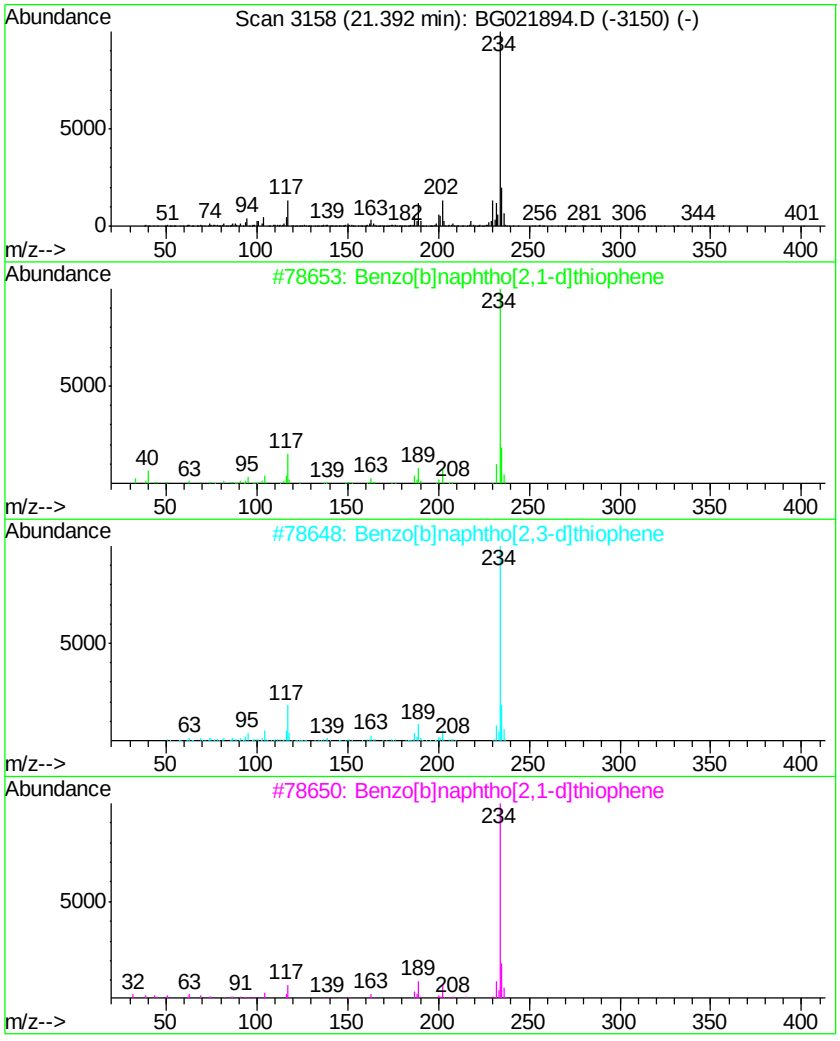
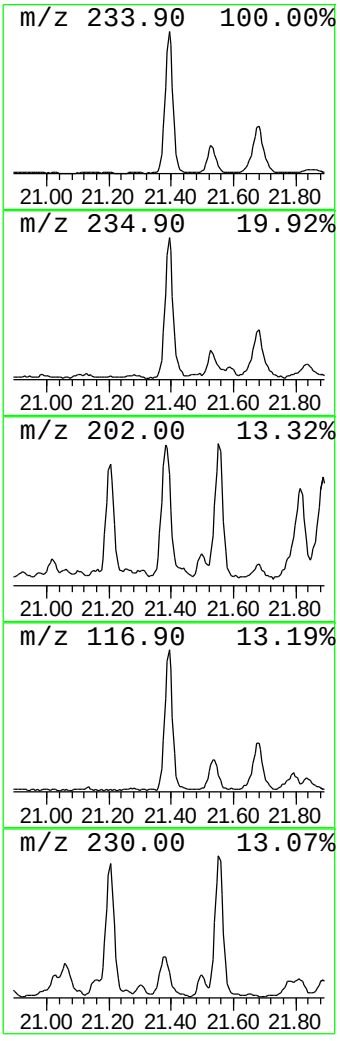
Peak Number 16 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.39	3.80 ng/ul	2399770	Chrysene-d12	21.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	93
2	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	93
3	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	93
4	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	90
5	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	87





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ALS Vial : 9 Sample Multiplier: 1

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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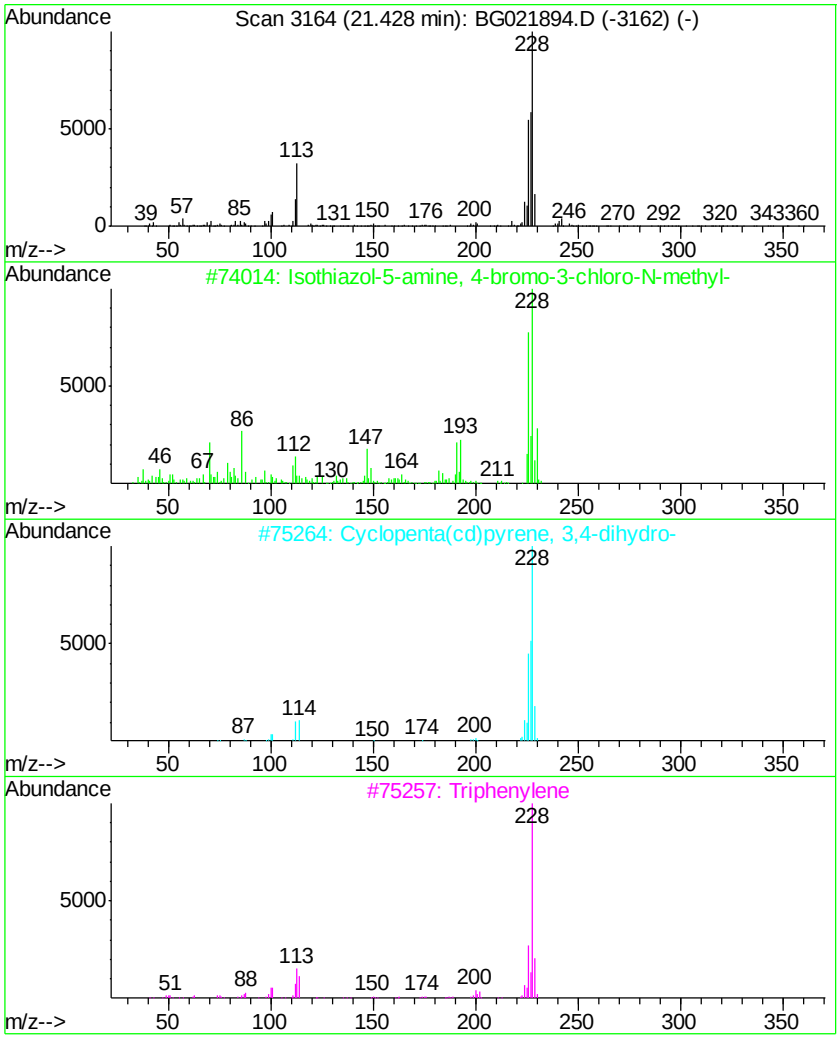
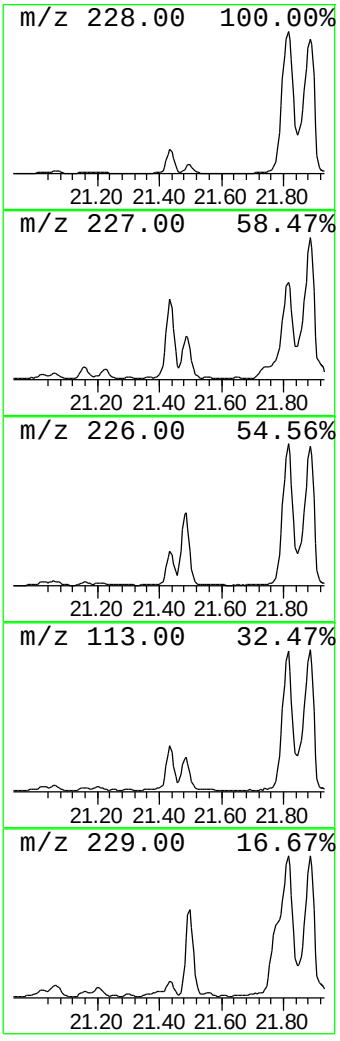
Peak Number 17 Isothiazol-5-amine, 4-bromo... Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.43	2.20 ng/ul	1389670	Chrysene-d12	21.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isothiazol-5-amine, 4-bromo-3-ch...	226	C4H4BrClN2S	1000272-59-9	50
2	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	49
3	Triphenylene	228	C18H12	000217-59-4	49
4	Benzo[c]phenanthrene	228	C18H12	000195-19-7	47
5	2-Nitrophenyl selenocyanate	228	C7H4N2O2Se	051694-22-5	43





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ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1

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Quant Title : SVOA CALIBRATION

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

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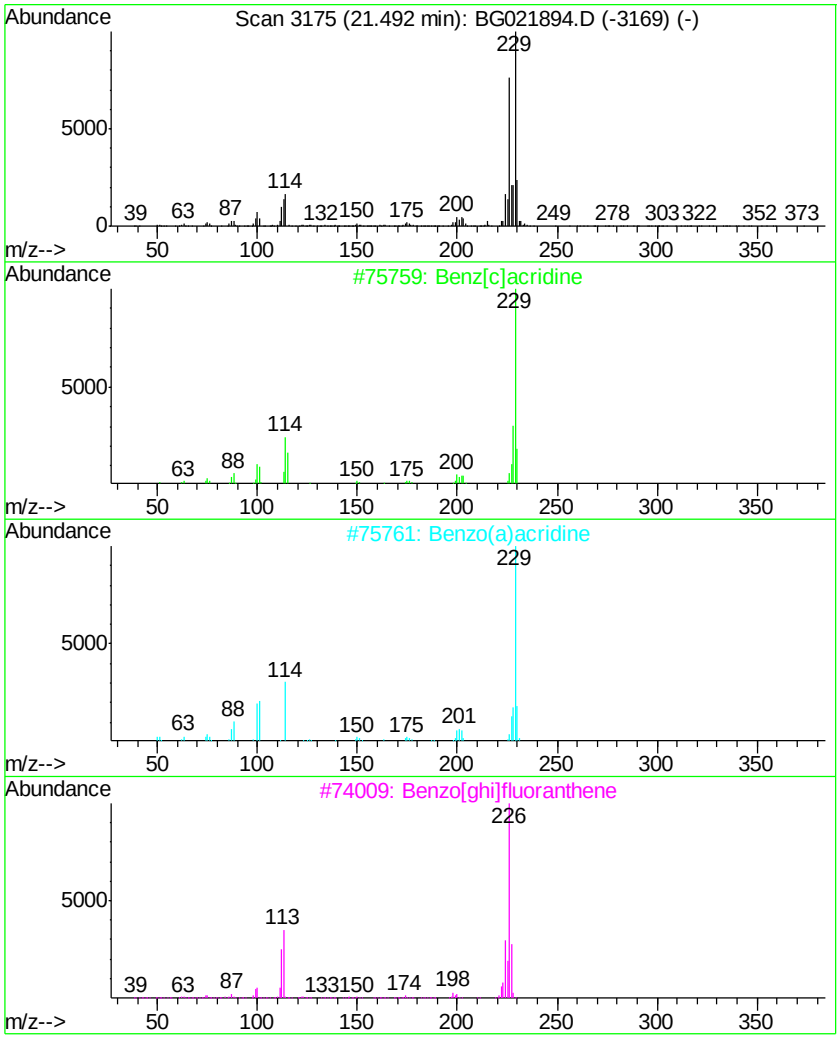
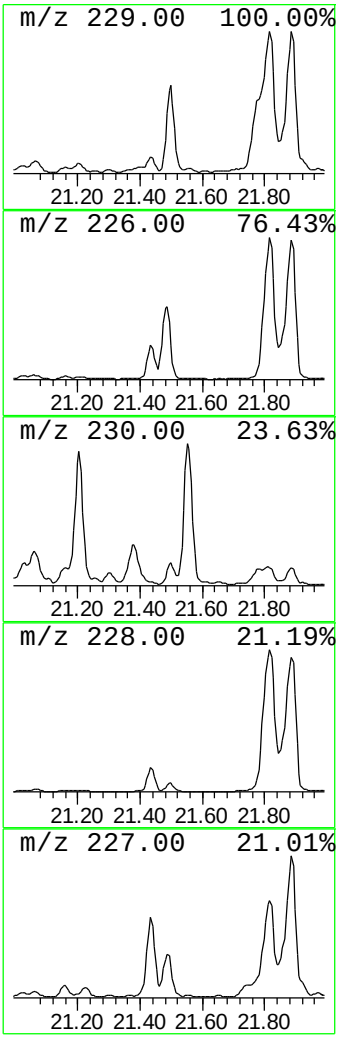
Peak Number 18 Benz[c]acridine Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.49	3.13 ng/ul	1977160	Chrysene-d12	21.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[c]acridine	229	C17H11N	000225-51-4	50
2	Benzo(a)acridine	229	C17H11N	000225-11-6	45
3	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	45
4	Benzo(a)acridine	229	C17H11N	000225-11-6	43
5	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	35





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Operator : UM/SJ
Sample : H3096-06
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

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

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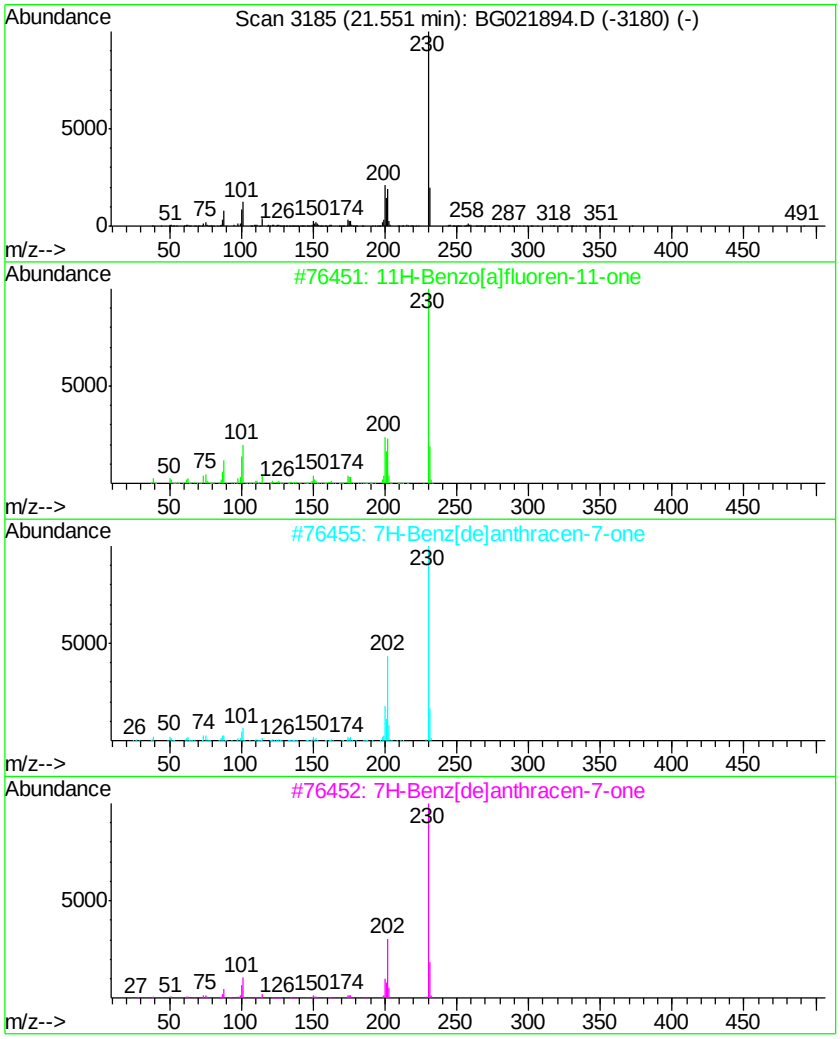
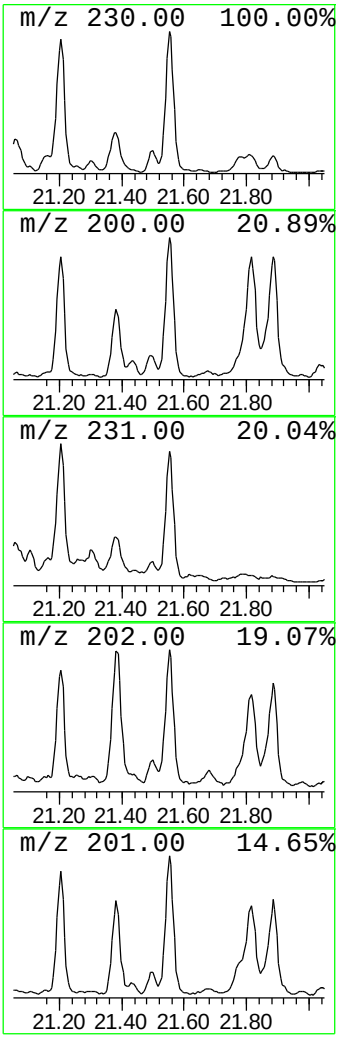
Peak Number 19 11H-Benzo[a]fluoren-11-one Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.55	3.30 ng/ul	2086340	Chrysene-d12	21.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	97
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	83
5	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	64





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Data File : BG021894.D
Acq On : 15 May 2016 15:34
Operator : UM/SJ
Sample : H3096-06
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

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

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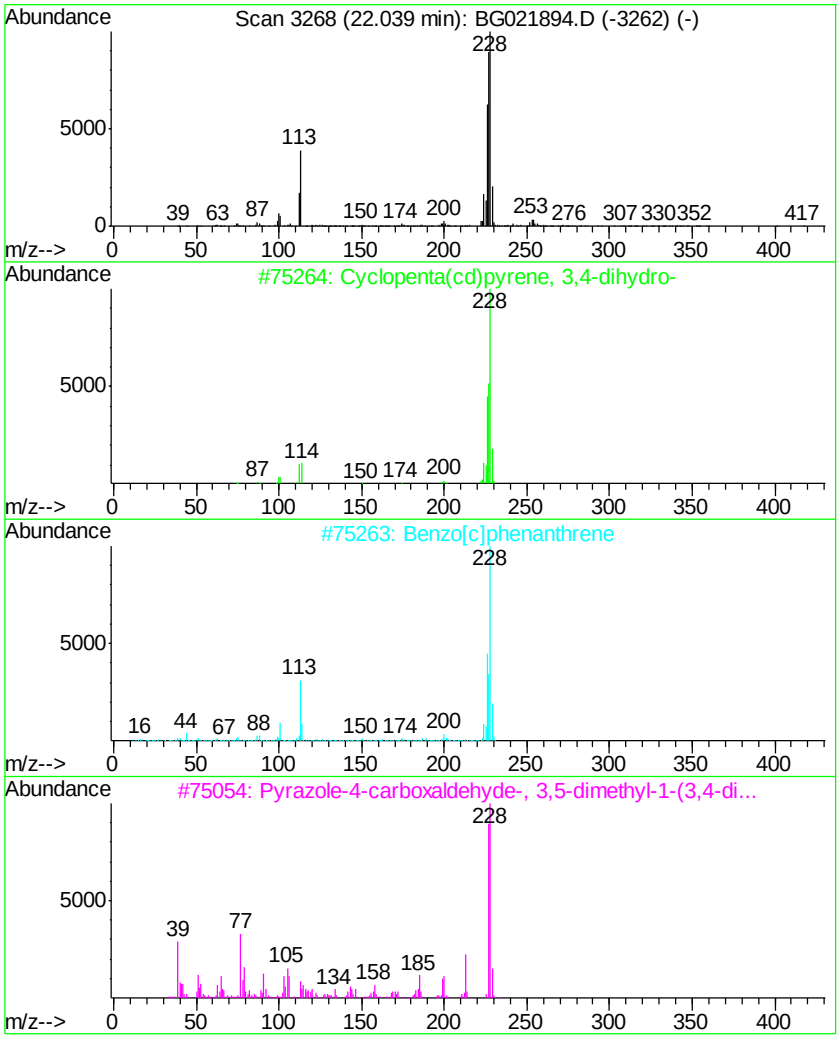
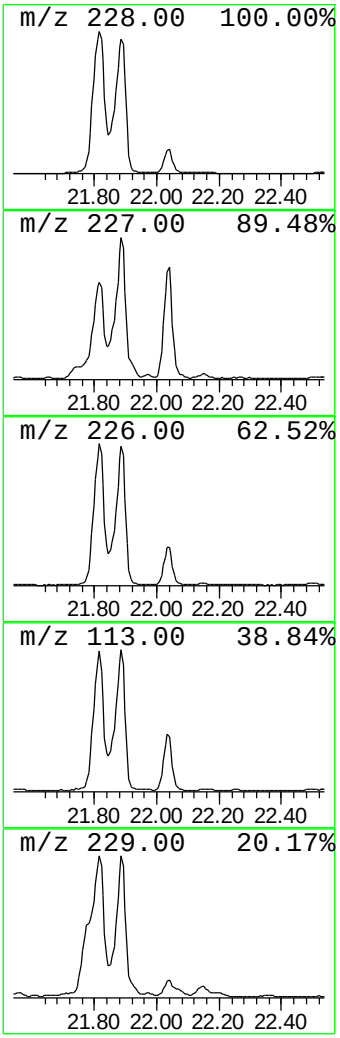
Peak Number 20 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.04	2.36 ng/ul	1488170	Chrysene-d12	21.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	89
2	Benzo[c]phenanthrene	228	C18H12	000195-19-7	55
3	Pyrazole-4-carboxaldehyde-, 3,5-...	228	C14H16N2O	1000272-54-8	47
4	Diphenylvinylphosphine oxide	228	C14H13OP	002096-78-8	47
5	Isothiazol-5-amine, 4-bromo-3-ch...	226	C4H4BrClN2S	1000272-59-9	43





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Sample : H3096-06
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

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

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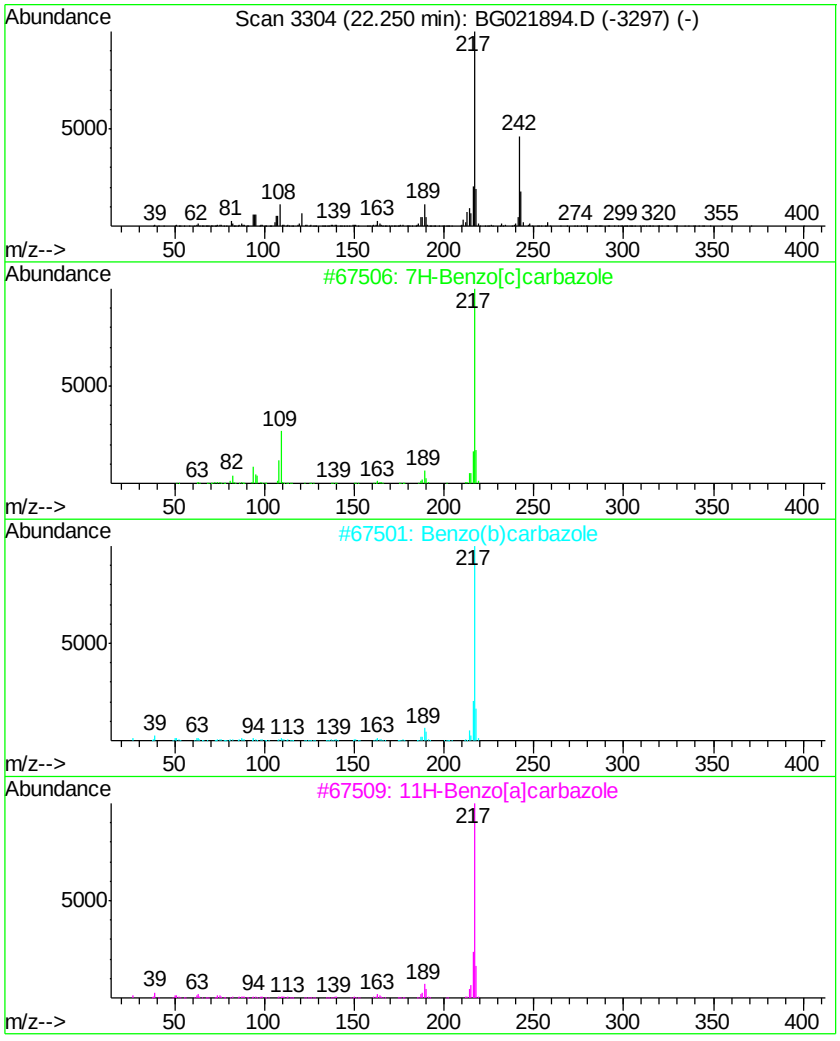
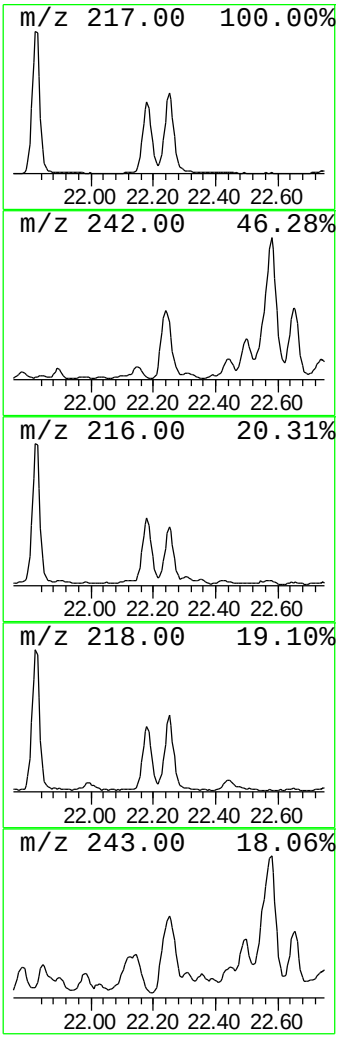
Peak Number 21 7H-Benzo[c]carbazole Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.25	2.40 ng/ul	1513070	Chrysene-d12	21.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benzo[c]carbazole	217	C16H11N	000205-25-4	70
2	Benzo(b)carbazole	217	C16H11N	000243-28-7	70
3	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	70
4	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	70
5	7H-Benzo[c]carbazole	217	C16H11N	000205-25-4	70





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Acq On : 15 May 2016 15:34
Operator : UM/SJ
Sample : H3096-06
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

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

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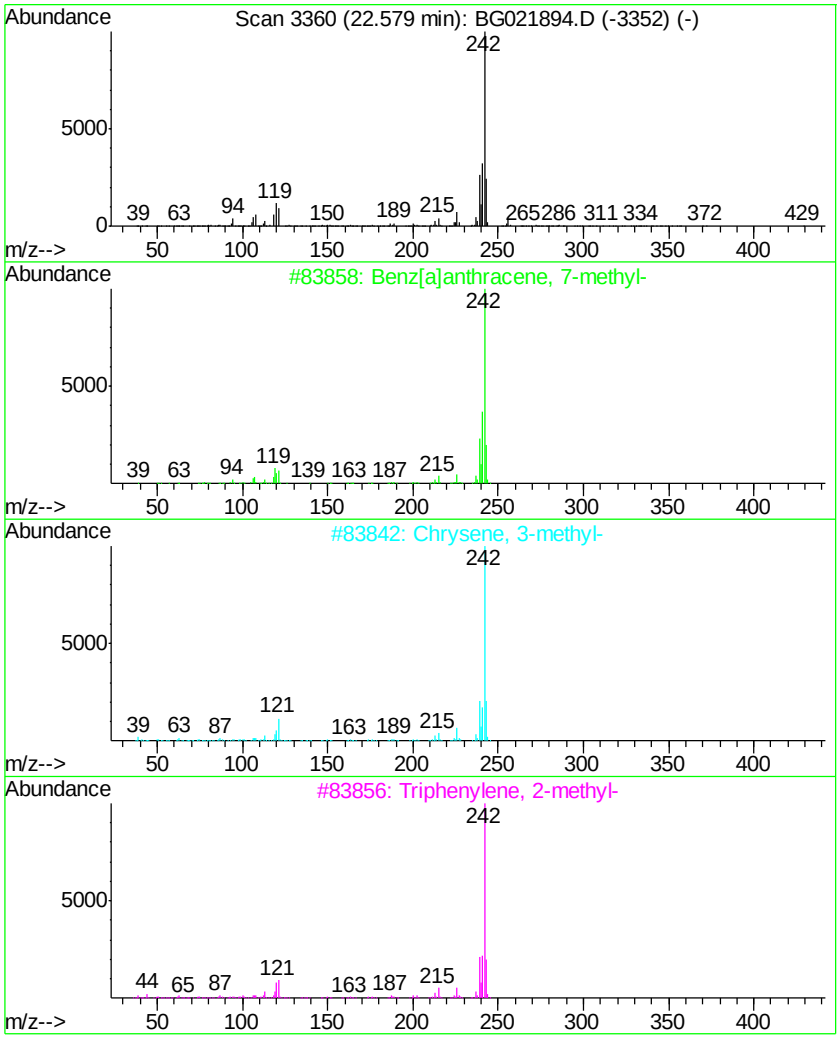
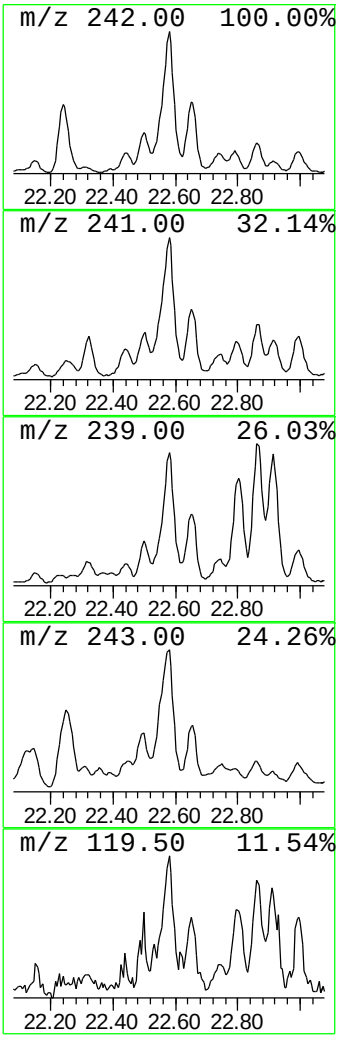
Peak Number 22 Benz[a]anthracene, 7-methyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.58	2.73 ng/ul	1723050	Chrysene-d12	21.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	96
2	Chrysene, 3-methyl-	242	C19H14	003351-31-3	95
3	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	95
4	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	94
5	Benz[a]anthracene, 2-methyl-	242	C19H14	002498-76-2	93





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Operator : UM/SJ
Sample : H3096-06
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

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

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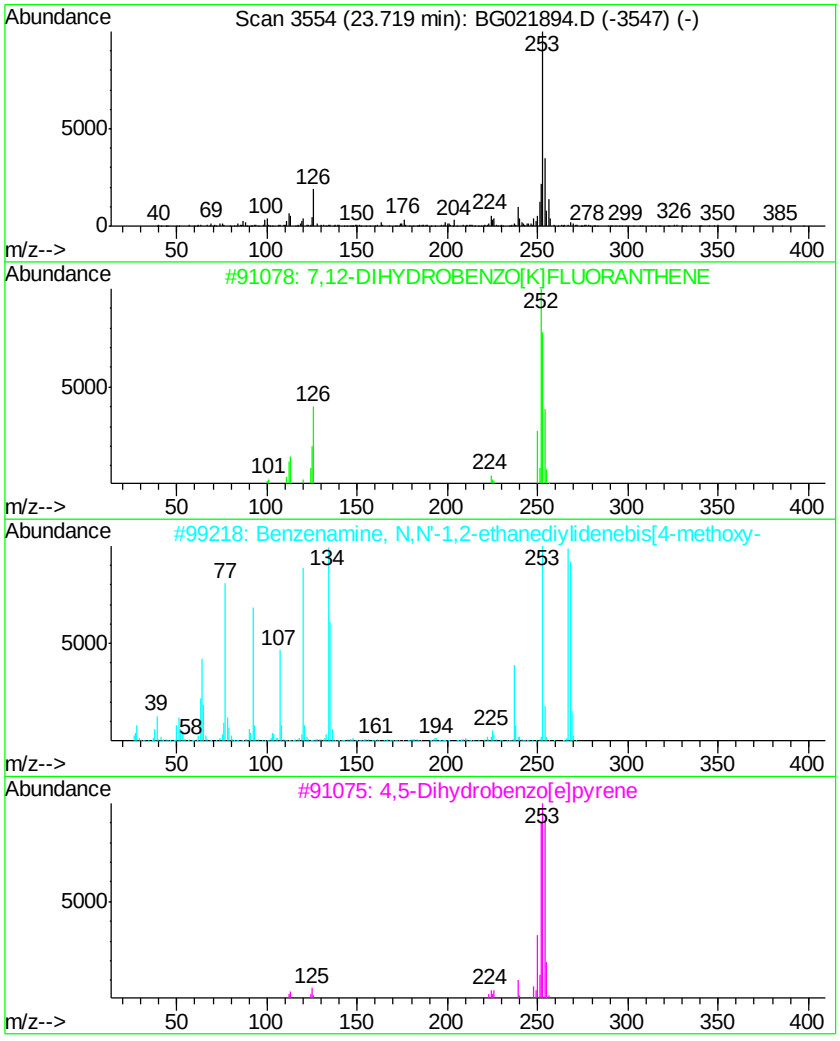
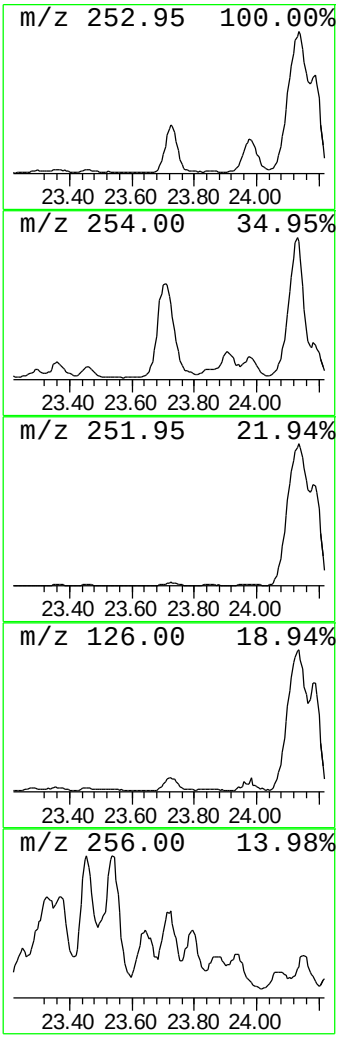
Peak Number 23 unknown-01 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.72	18.15 ng/ul	1078790	Perylene-d12	25.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7,12-DIHYDROBENZO[K]FLUORANTHENE	254	C20H14	1000080-17-7	58
2	Benzenamine, N,N'-1,2-ethanediyl...	268	C16H16N2O2	024764-91-8	43
3	4,5-Dihydrobenzo[e]pyrene	254	C20H14	095676-42-9	40
4	2H-1,4-Benzothiazin-2-acetic aci...	253	C11H11NO2S2	002832-88-4	38
5	10-Oxo-5,5-dimethyl-5-sila-5,10-...	254	C14H14N2OSi	089052-45-9	33





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Operator : UM/SJ
Sample : H3096-06
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

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

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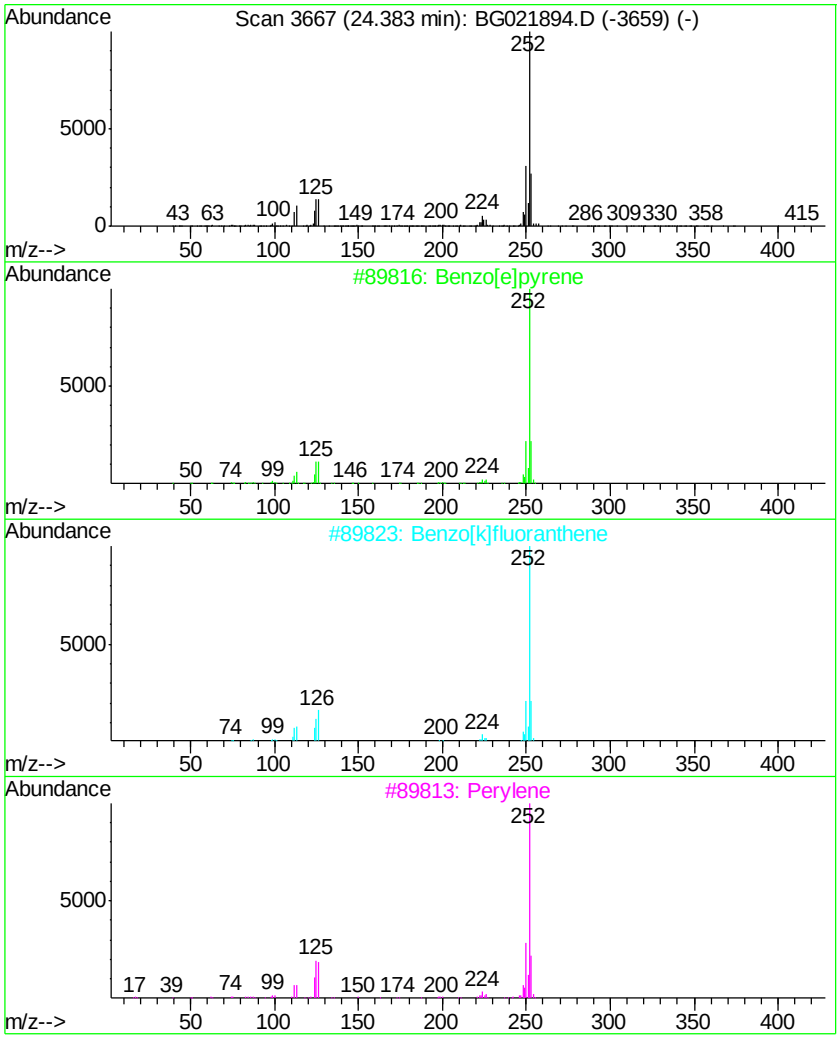
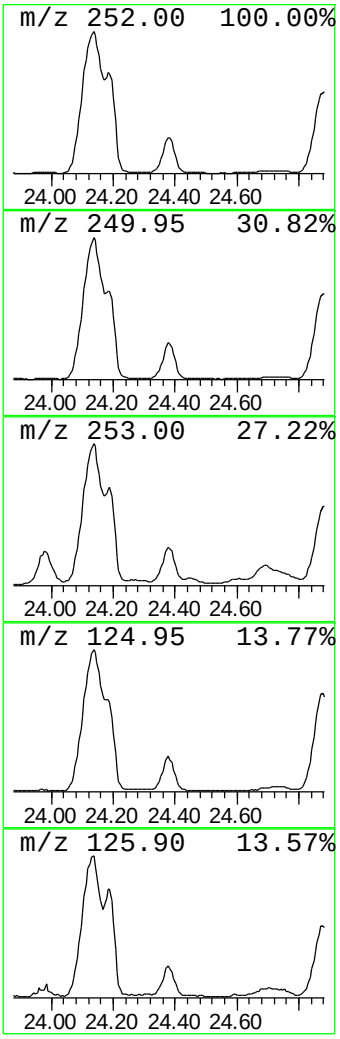
Peak Number 24 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.38	24.11 ng/ul	1432780	Perylene-d12	25.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	93
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
3	Perylene	252	C20H12	000198-55-0	93
4	Benzo[a]pyrene	252	C20H12	000050-32-8	91
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	91





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Data File : BG021894.D
Acq On : 15 May 2016 15:34
Operator : UM/SJ
Sample : H3096-06
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

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

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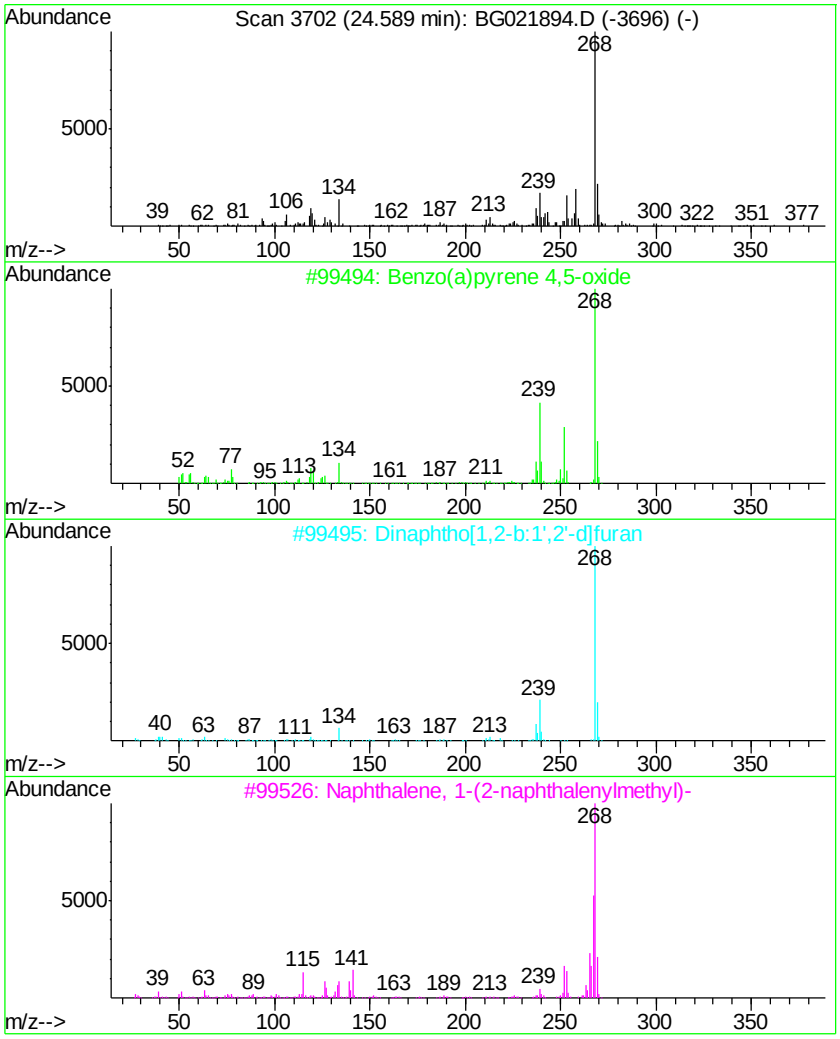
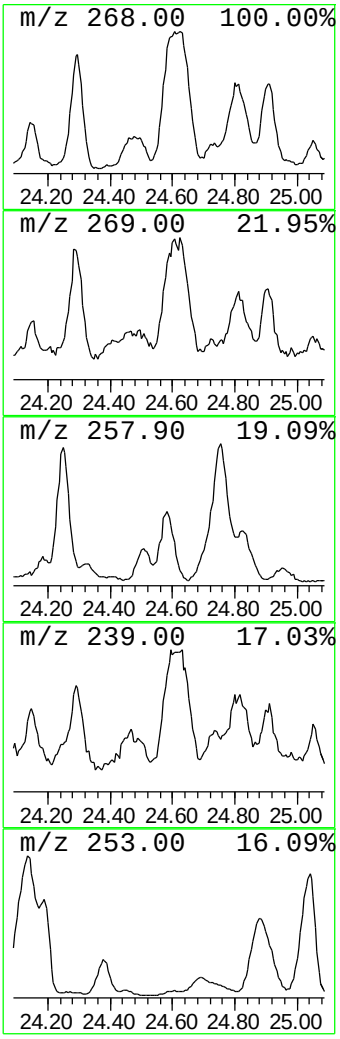
Peak Number 25 Benzo(a)pyrene 4,5-oxide Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.59	12.34 ng/ul	733591	Perylene-d12	25.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	81
2	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	74
3	Naphthalene, 1-(2-naphthalenylme...	268	C21H16	000611-48-3	64
4	Naphthalene, 1,1'-methylenebis-	268	C21H16	000607-50-1	58
5	9,10-Anthracenedione, 1,4,5,8-te...	268	C14H12N4O2	002475-45-8	58





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051516\
Data File : BG021894.D
Acq On : 15 May 2016 15:34
Operator : UM/SJ
Sample : H3096-06
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

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

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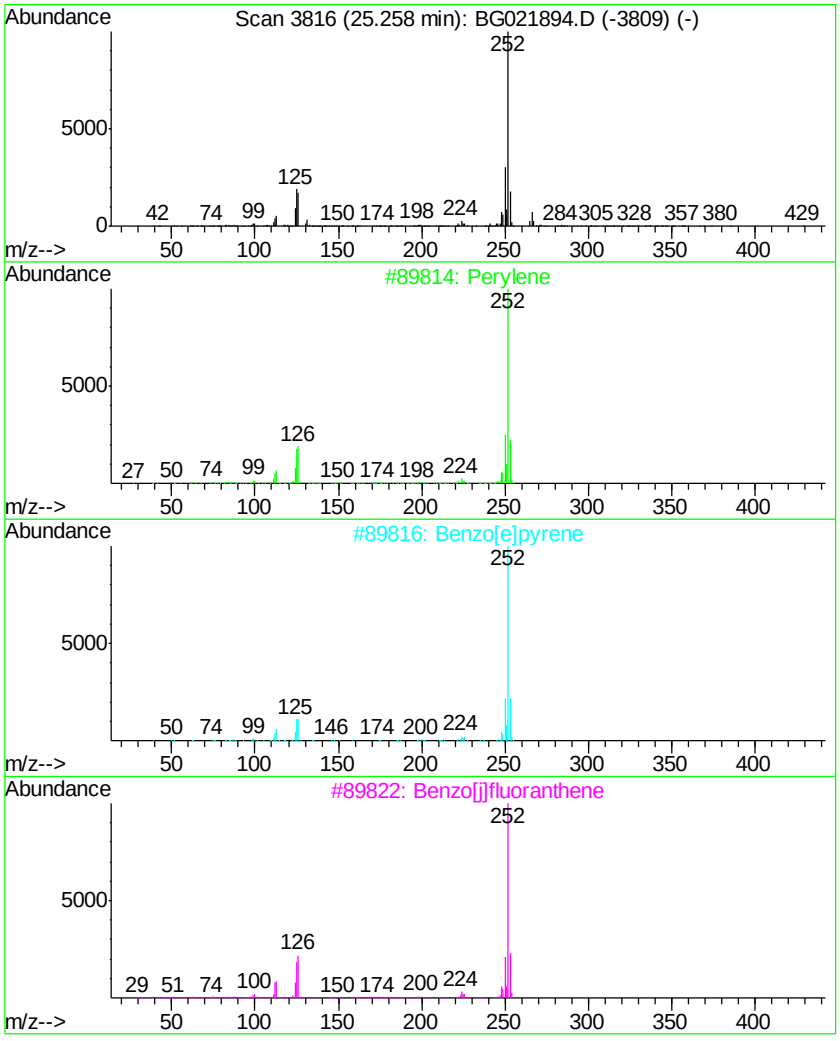
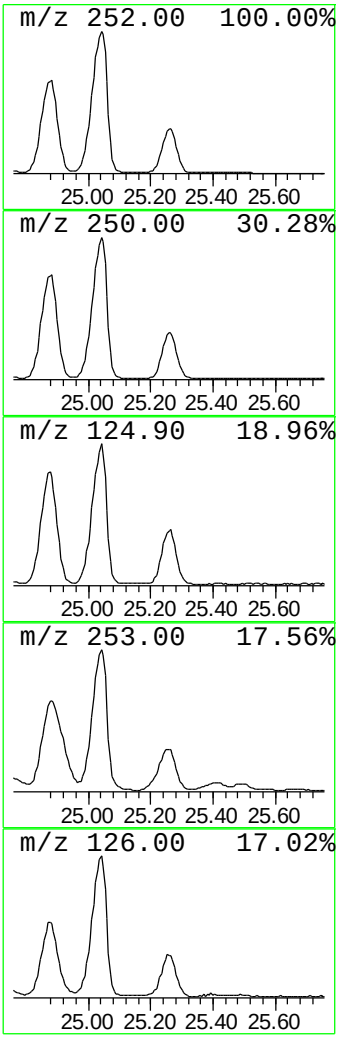
Peak Number 27 Benzo[j]fluoranthene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.26	43.86 ng/ul	2606700	Perylene-d12	25.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	96
2	Benzo[e]pyrene	252	C20H12	000192-97-2	92
3	Benzo[j]fluoranthene	252	C20H12	000205-82-3	76
4	Benzo[a]pyrene	252	C20H12	000050-32-8	70
5	Perylene	252	C20H12	000198-55-0	70





Tentatively Identified Compound (LSC) summary

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Data File : BG021894.D
Acq On : 15 May 2016 15:34
Operator : UM/SJ
Sample : H3096-06
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XG1

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.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, 2,7-...	13.97	14.2	ng/ul	472843	3	14.79	667363	20.0
Naphthalene, 2,6-...	14.11	16.7	ng/ul	556252	3	14.79	667363	20.0
Naphthalene, 1,4-...	14.35	8.1	ng/ul	269132	3	14.79	667363	20.0
1-Isopropenylnaph...	15.96	8.5	ng/ul	282388	3	14.79	667363	20.0
Acetamide, N-cycl...	16.00	12.6	ng/ul	421123	3	14.79	667363	20.0
[1,1'-Biphenyl]-4...	16.12	18.0	ng/ul	600105	3	14.79	667363	20.0
Phenanthrene, 2-m...	18.41	2.4	ng/ul	2101670	4	17.54	17581000	20.0
Phenanthrene, 1-m...	18.46	3.1	ng/ul	2763030	4	17.54	17581000	20.0
4H-Cyclopenta[def...	18.61	5.6	ng/ul	4916390	4	17.54	17581000	20.0
Pyrene, 1-methyl-	20.26	3.0	ng/ul	1914010	5	21.83	12632600	20.0
Fluoranthene, 2-m...	20.43	4.4	ng/ul	2754780	5	21.83	12632600	20.0
11H-Benzo[b]fluorene	20.53	3.1	ng/ul	1937150	5	21.83	12632600	20.0
Pyrene, 2-methyl-	20.59	3.2	ng/ul	2002310	5	21.83	12632600	20.0
Benzo[b]naphtho[2...	21.39	3.8	ng/ul	2399770	5	21.83	12632600	20.0
Isothiazol-5-amin...	21.43	2.2	ng/ul	1389670	5	21.83	12632600	20.0
Benz[c]acridine	21.49	3.1	ng/ul	1977160	5	21.83	12632600	20.0
11H-Benzo[a]fluor...	21.55	3.3	ng/ul	2086340	5	21.83	12632600	20.0
Cyclopenta(cd)pyr...	22.04	2.4	ng/ul	1488170	5	21.83	12632600	20.0
7H-Benzo[c]carbazole	22.25	2.4	ng/ul	1513070	5	21.83	12632600	20.0
Benz[a]anthracene...	22.58	2.7	ng/ul	1723050	5	21.83	12632600	20.0
unknown-01	23.72	18.1	ng/ul	1078790	6	25.18	1188740	20.0
Benzo[e]pyrene	24.38	24.1	ng/ul	1432780	6	25.18	1188740	20.0
Benzo(a)pyrene 4,...	24.59	12.3	ng/ul	733591	6	25.18	1188740	20.0
Benzo[j]fluoranthene	25.26	43.9	ng/ul	2606700	6	25.18	1188740	20.0