LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG030116\
Data File : BG021193.D
Acq On : 1 Mar 2016 21:04
Operator : UM/SJ
Sample : H1578-03 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CEB-7(2.5-5)20160224

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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\8270-BG022916.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.058	32	37	54	rVB	310026	423308	28.26%	2.457%
2	5.696	480	486	494	rBV	40570	61499	4.11%	0.357%
3	7.289	750	757	764	rBV	48392	81776	5.46%	0.475%
4	7.671	815	822	829	rVB	44613	72086	4.81%	0.418%
5	8.146	896	903	909	rVB	40188	64555	4.31%	0.375%
6	8.470	951	958	964	rBV	26031	42893	2.86%	0.249%
7	9.304	1092	1100	1107	rVB	28603	50394	3.36%	0.293%
8	10.955	1373	1381	1386	rBV	65807	120091	8.02%	0.697%
9	11.002	1386	1389	1396	rVB	49786	82244	5.49%	0.477%
10	12.594	1654	1660	1666	rBV2	26474	40695	2.72%	0.236%
11	12.812	1691	1697	1703	rBV	21560	34952	2.33%	0.203%
12	13.381	1788	1794	1801	rBV	58543	89732	5.99%	0.521%
13	14.075	1905	1912	1917	rBV2	21113	34625	2.31%	0.201%
14	14.128	1917	1921	1927	rVB2	12107	17381	1.16%	0.101%
15	14.310	1948	1952	1956	rBV2	10261	15132	1.01%	0.088%
16	14.474	1976	1980	1988	rVB3	11260	17544	1.17%	0.102%
17	14.750	2016	2027	2033	rBV2	99840	175221	11.70%	1.017%
18	14.815	2033	2038	2044	rVB	76844	121437	8.11%	0.705%
19	15.062	2072	2080	2084	rBV2	10675	17379	1.16%	0.101%
20	15.144	2087	2094	2101	rBV	59982	93213	6.22%	0.541%
21	15.796	2198	2205	2215	rVB	93599	152901	10.21%	0.888%
22	15.884	2215	2220	2223	rBV4	11964	18459	1.23%	0.107%
23	15.914	2223	2225	2229	rVV	15610	21817	1.46%	0.127%
24	15.955	2229	2232	2236	rVB2	15464	21423	1.43%	0.124%
25	16.084	2250	2254	2262	rVB	22599	35858	2.39%	0.208%
26	16.231	2270	2279	2287	rVB	74860	124054	8.28%	0.720%
27	16.789	2363	2374	2379	rBV3	25678	69218	4.62%	0.402%
28	16.842	2379	2383	2388	rVB3	17212	26411	1.76%	0.153%
29	16.942	2396	2400	2405	rVB2	14562	21335	1.42%	0.124%
30	17.018	2405	2413	2415	rBV5	12737	26563	1.77%	0.154%
31	17.060	2415	2420	2424	rVV4	16209	29809	1.99%	0.173%
32	17.142	2428	2434	2440	rVV	38989	63517	4.24%	0.369%
33	17.242	2443	2451	2457	rVV6	24127	64279	4.29%	0.373%
34	17.306	2457	2462	2471	rVB	51661	82434	5.50%	0.479%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG030116\
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Acq On : 1 Mar 2016 21:04
Operator : UM/SJ
Sample : H1578-03 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CEB-7(2.5-5)20160224

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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\8270-BG022916.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	17.488	2487	2493	2496	rBV	124260	200343	13.37%	1.163%
36	17.535	2496	2501	2507	rVV	996480	1498102	100.00%	8.696%
37	17.624	2511	2516	2521	rVV	149325	221610	14.79%	1.286%
38	17.676	2521	2525	2530	rVB2	14274	25745	1.72%	0.149%
39	17.888	2550	2561	2570	rBV2	66344	153875	10.27%	0.893%
40	18.005	2577	2581	2584	rBV	20010	27007	1.80%	0.157%
41	18.064	2587	2591	2596	rVV	23927	37587	2.51%	0.218%
42	18.211	2611	2616	2623	rVB2	15598	30269	2.02%	0.176%
43	18.282	2623	2628	2632	rBV3	12728	18965	1.27%	0.110%
44	18.358	2635	2641	2645	rVV	156322	241539	16.12%	1.402%
45	18.405	2645	2649	2656	rVB	188490	292141	19.50%	1.696%
46	18.487	2656	2663	2668	rBV	50329	86772	5.79%	0.504%
47	18.558	2668	2675	2678	rVV2	174257	361924	24.16%	2.101%
48	18.587	2678	2680	2686	rVB	108280	140228	9.36%	0.814%
49	18.852	2719	2725	2728	rBV	101309	143546	9.58%	0.833%
50	18.893	2728	2732	2742	rVB	116247	173001	11.55%	1.004%
51	18.975	2742	2746	2751	rBV	18836	31313	2.09%	0.182%
52	19.092	2756	2766	2770	rBV2	47793	85389	5.70%	0.496%
53	19.145	2770	2775	2778	rBV	29321	37410	2.50%	0.217%
54	19.181	2778	2781	2783	rBV2	23360	30483	2.03%	0.177%
55	19.263	2789	2795	2800	rBV	94803	164101	10.95%	0.953%
56	19.327	2800	2806	2809	rBV3	34173	72948	4.87%	0.423%
57	19.404	2814	2819	2829	rBV3	62809	131912	8.81%	0.766%
58	19.533	2834	2841	2846	rVB	1014919	1411391	94.21%	8.193%
59	19.586	2846	2850	2852	rBV2	21080	22993	1.53%	0.133%
60	19.621	2852	2856	2861	rVB	42462	61378	4.10%	0.356%
61	19.674	2861	2865	2868	rBV2	10925	17259	1.15%	0.100%
62	19.715	2868	2872	2876	rBV2	29941	45273	3.02%	0.263%
63	19.768	2876	2881	2884	rBV	38492	54451	3.63%	0.316%
64	19.891	2897	2902	2908	rVB	957977	1447422	96.62%	8.402%
65	19.956	2908	2913	2919	rVB3	59375	101068	6.75%	0.587%
66	20.074	2926	2933	2937	rBV2	108179	180150	12.03%	1.046%
67	20.121	2937	2941	2947	rVB	42985	73845	4.93%	0.429%
68	20.215	2949	2957	2962	rBV5	78821	199509	13.32%	1.158%
69	20.373	2973	2984	2989	rVB	147444	312929	20.89%	1.816%
70	20.473	2994	3001	3005	rBV	100177	154766	10.33%	0.898%
71	20.532	3005	3011	3015	rVV2	117340	201436	13.45%	1.169%

LSC Area Percent Report

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Data File : BG021193.D
Acq On : 1 Mar 2016 21:04
Operator : UM/SJ
Sample : H1578-03 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CEB-7(2.5-5)20160224

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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\8270-BG022916.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	20.567	3015	3017	3021	rVV	46841	58222	3.89%	0.338%
73	20.608	3021	3024	3029	rVB5	21800	32432	2.16%	0.188%
74	20.673	3030	3035	3038	rVV	87060	119364	7.97%	0.693%
75	20.714	3038	3042	3050	rVB	86297	138383	9.24%	0.803%
76	21.102	3103	3108	3109	rBV5	16154	26856	1.79%	0.156%
77	21.137	3109	3114	3121	rVB	82168	142142	9.49%	0.825%
78	21.325	3138	3146	3149	rBV3	75914	173330	11.57%	1.006%
79	21.366	3149	3153	3157	rVV	84822	140680	9.39%	0.817%
80	21.419	3157	3162	3166	rVV2	69183	133002	8.88%	0.772%
81	21.472	3166	3171	3181	rVB2	84234	165698	11.06%	0.962%
82	21.736	3209	3216	3223	rBV3	416785	968042	64.62%	5.619%
83	21.801	3223	3227	3234	rVB	393163	631021	42.12%	3.663%
84	21.907	3240	3245	3248	rBV4	17079	32664	2.18%	0.190%
85	21.954	3248	3253	3260	rVV	50354	92621	6.18%	0.538%
86	22.159	3283	3288	3294	rBV2	36293	76722	5.12%	0.445%
87	22.224	3296	3299	3304	rVB7	14761	24454	1.63%	0.142%
88	22.488	3335	3344	3349	rBV	72394	163841	10.94%	0.951%
89	22.559	3352	3356	3362	rVB2	52908	105503	7.04%	0.612%
90	22.765	3387	3391	3395	rBV2	35065	62561	4.18%	0.363%
91	22.906	3409	3415	3423	rVB5	30213	72832	4.86%	0.423%
92	23.987	3588	3599	3607	rBV2	218269	785542	52.44%	4.560%
93	24.239	3636	3642	3650	rVB	34353	85542	5.71%	0.497%
94	24.445	3674	3677	3679	rBV4	12601	16645	1.11%	0.097%
95	24.721	3716	3724	3736	rVB2	138540	411954	27.50%	2.391%
96	24.874	3740	3750	3760	rVB	199343	569991	38.05%	3.309%
97	25.027	3766	3776	3782	rBV	80224	242921	16.22%	1.410%
98	25.103	3783	3789	3804	rVB2	52232	179461	11.98%	1.042%
99	28.758	4399	4411	4432	rVB4	75728	390997	26.10%	2.270%
100	29.933	4595	4611	4623	rBV3	59312	279770	18.67%	1.624%

Sum of corrected areas: 17227508

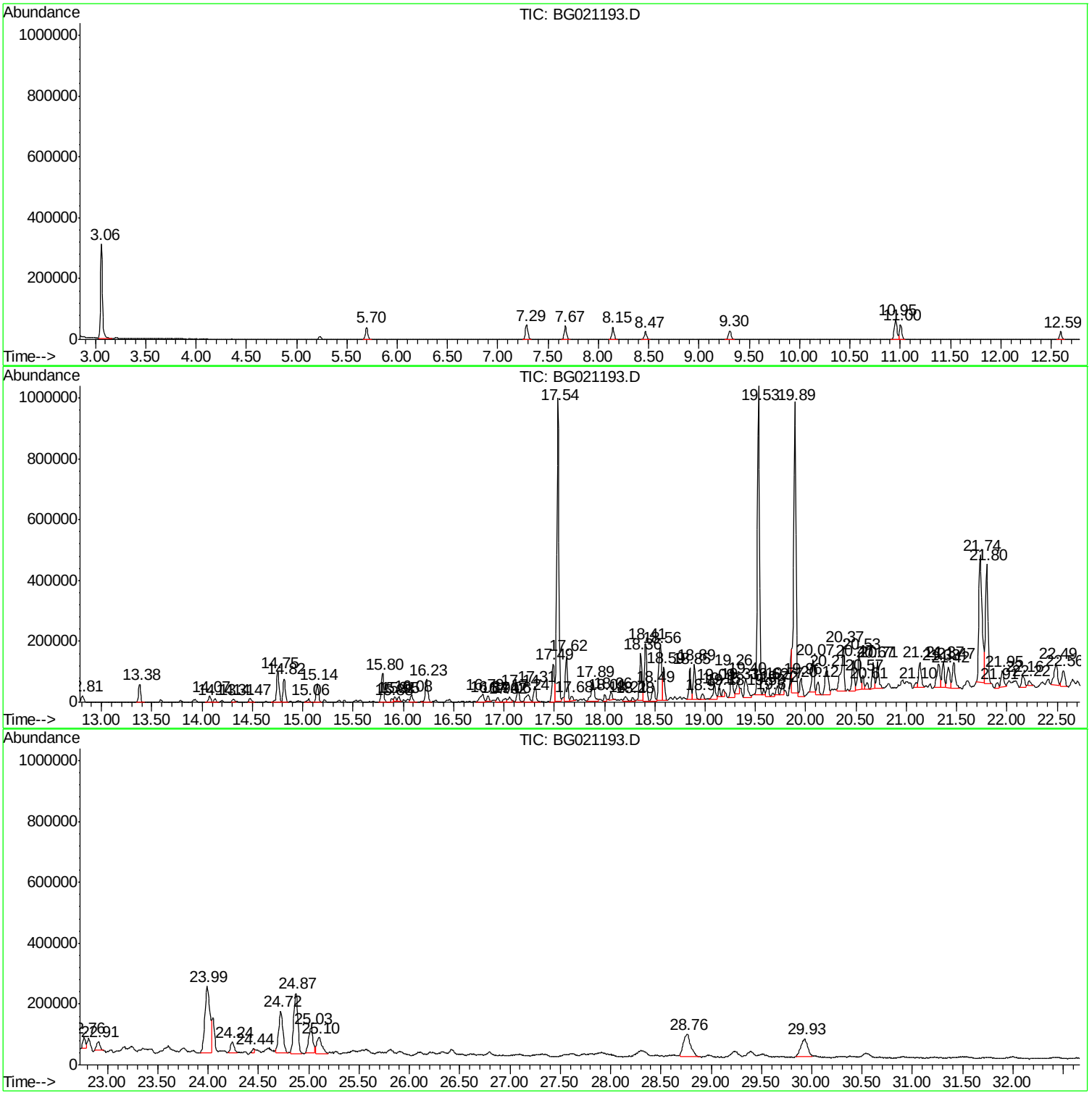
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA G\DATA\BG030116\
Data File : BG021193.D
Acq On : 1 Mar 2016 21:04
Operator : UM/SJ
Sample : H1578-03 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CEB-7(2.5-5)20160224

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA G\DATA\BG030116\
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Instrument : BNA_G
ClientSampleId : CEB-7(2.5-5)20160224

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

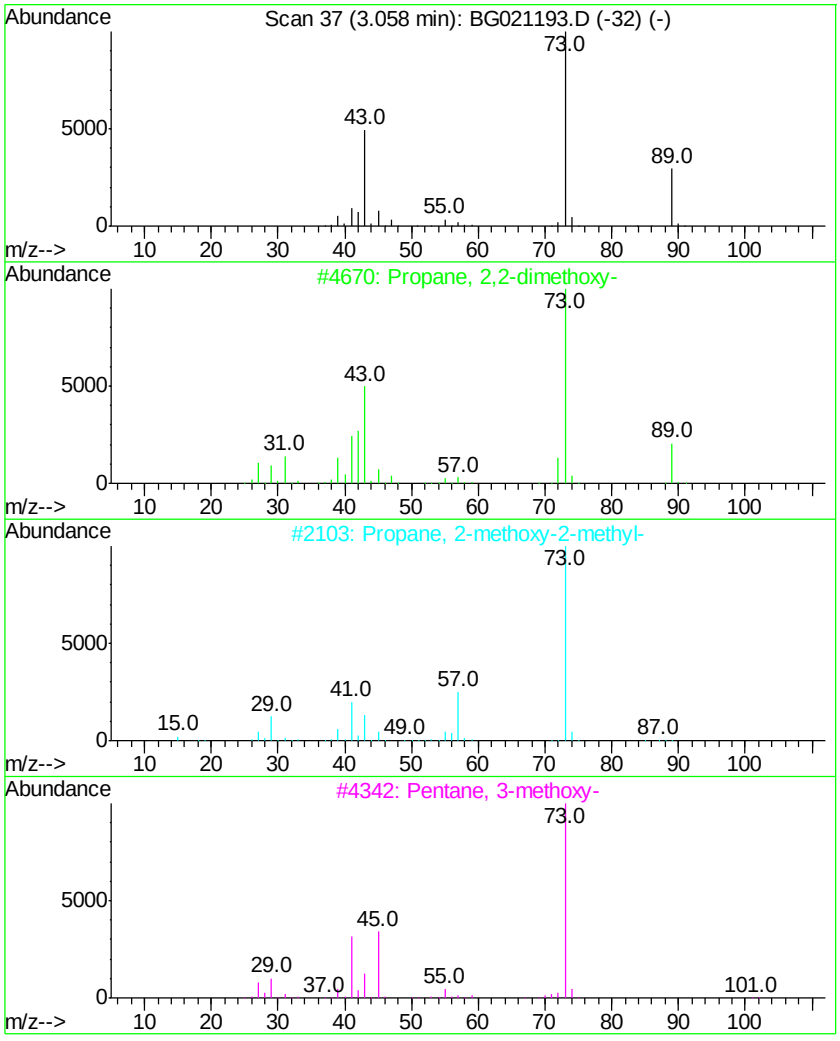
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

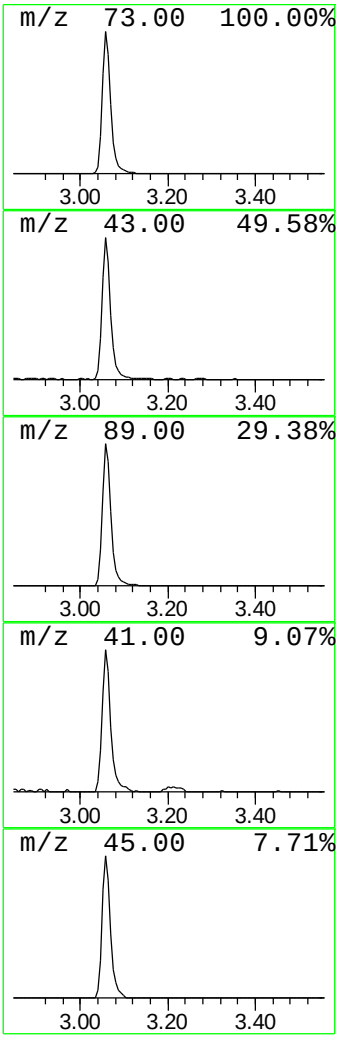
****

Peak Number 1 Propane, 2,2-dimethoxy- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.06	131.15 ng	423308	1,4-Dichlorobenzene-d4	8.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane, 2,2-dimethoxy-	104	C5H12O2	000077-76-9	56
2	Propane, 2-methoxy-2-methyl-	88	C5H12O	001634-04-4	9
3	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	9
4	2-Hydroxy-2-methylbutyric acid	118	C5H10O3	003739-30-8	9
5	N-Ethylformamide	73	C3H7NO	000627-45-2	5





Data Path : Z:\HPCHEM1\BNA G\DATA\BG030116\
Data File : BG021193.D
Acq On : 1 Mar 2016 21:04
Operator : UM/SJ
Sample : H1578-03 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CEB-7(2.5-5)20160224

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

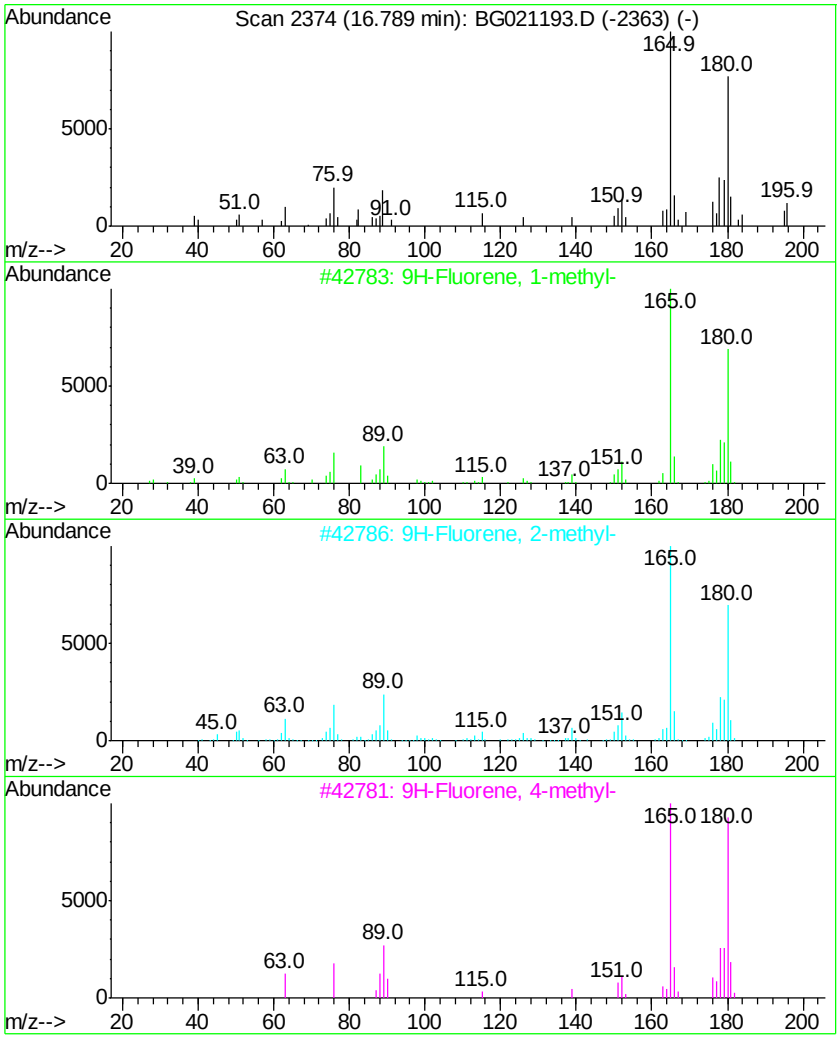
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

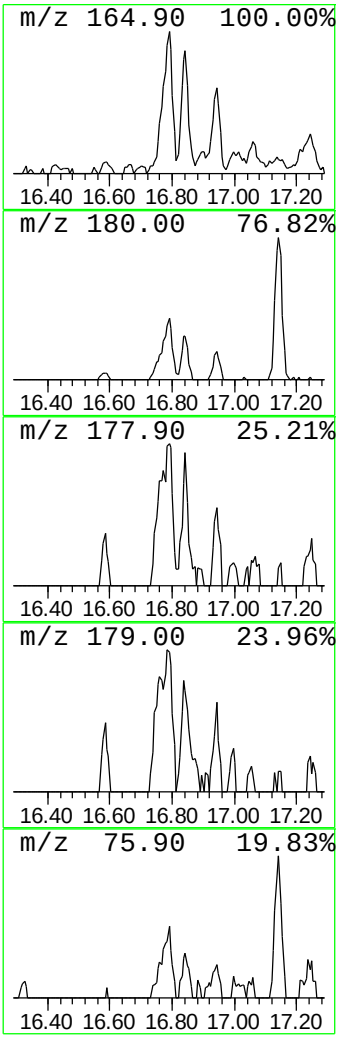
****

Peak Number 4 9H-Fluorene, 1-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.79	6.91 ng	69218	Phenanthrene-d10	17.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	94
3	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	90
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	90
5	3H-Benz[e]indene, 2-methyl-	180	C14H12	150096-60-9	83





Data Path : Z:\HPCHEM1\BNA G\DATA\BG030116\
Data File : BG021193.D
Acq On : 1 Mar 2016 21:04
Operator : UM/SJ
Sample : H1578-03 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CEB-7(2.5-5)20160224

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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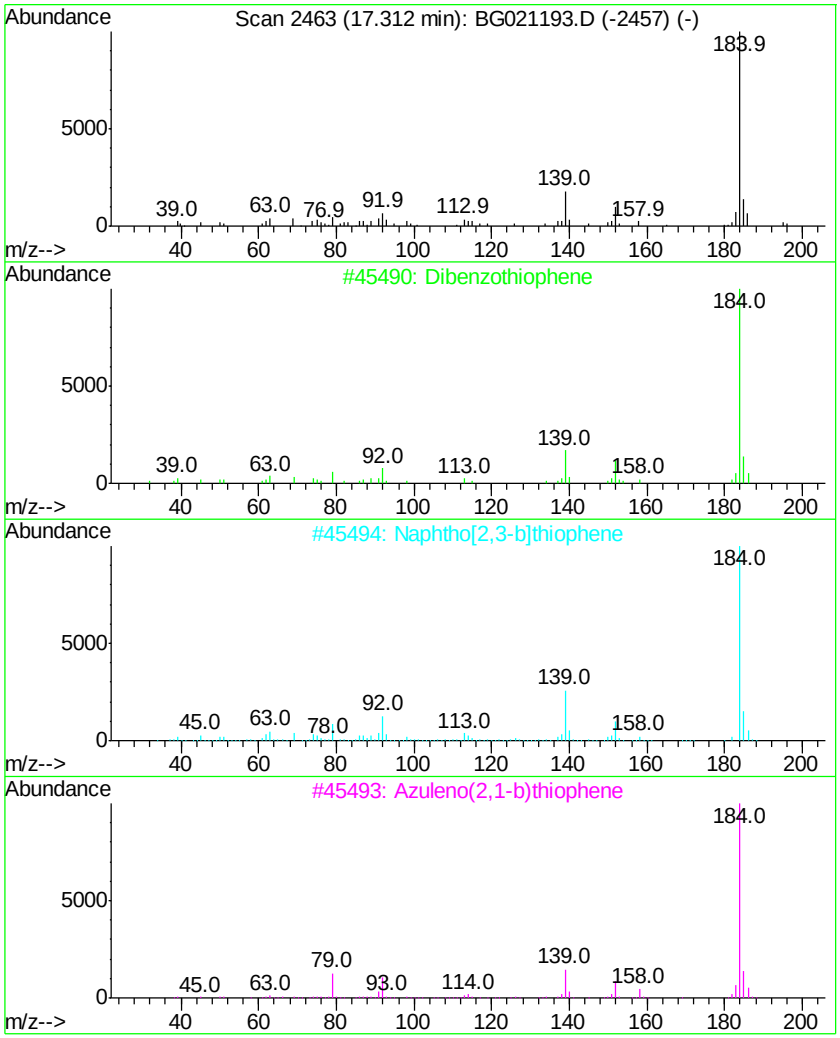
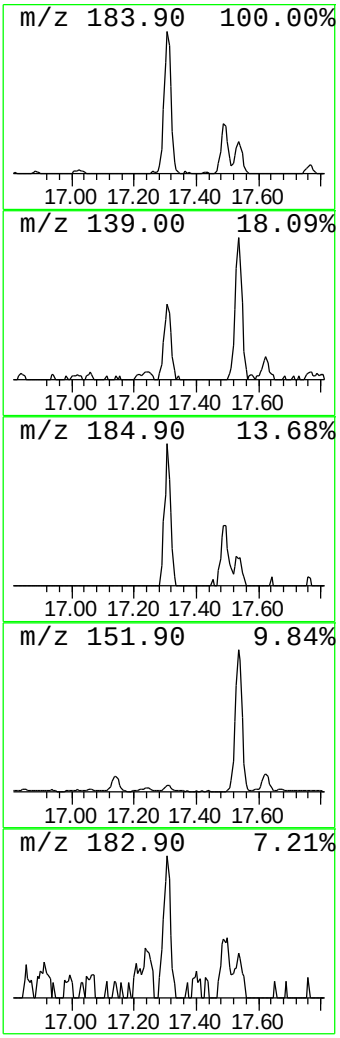
Peak Number 5 Dibenzothiophene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.31	8.23 ng	82434	Phenanthrene-d10	17.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
3	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
4	Naphthalene, 2-ethenyl-6-methoxy-	184	C13H12O	063444-51-9	72
5	Dibenzothiophene, 5-oxide	200	C12H8OS	001013-23-6	64





Data Path : Z:\HPCHEM1\BNA G\DATA\BG030116\
Data File : BG021193.D
Acq On : 1 Mar 2016 21:04
Operator : UM/SJ
Sample : H1578-03 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CEB-7(2.5-5)20160224

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

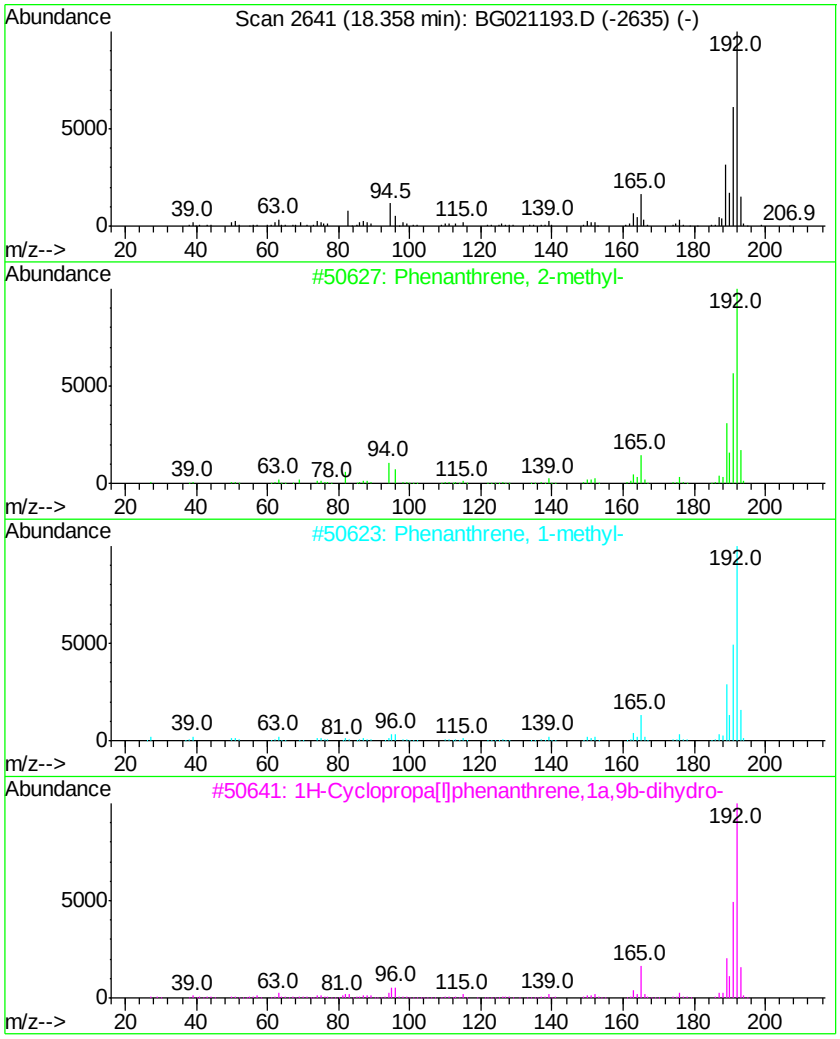
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

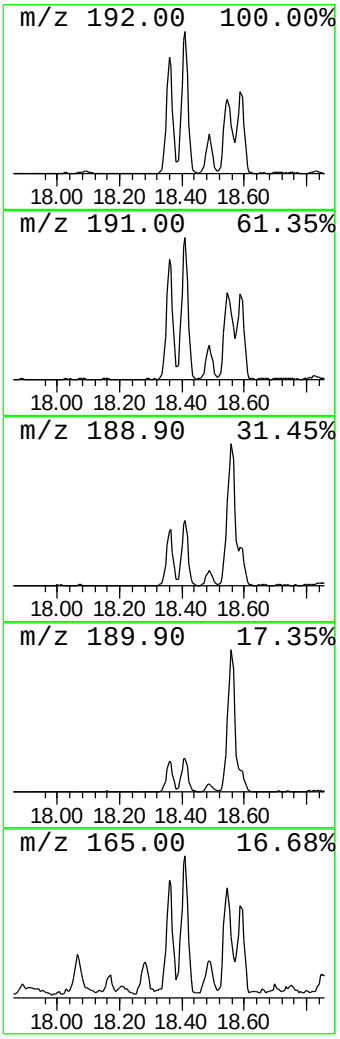
****

Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.36	24.11 ng	241539	Phenanthrene-d10	17.49

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	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94





Data Path : Z:\HPCHEM1\BNA G\DATA\BG030116\
Data File : BG021193.D
Acq On : 1 Mar 2016 21:04
Operator : UM/SJ
Sample : H1578-03 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CEB-7(2.5-5)20160224

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

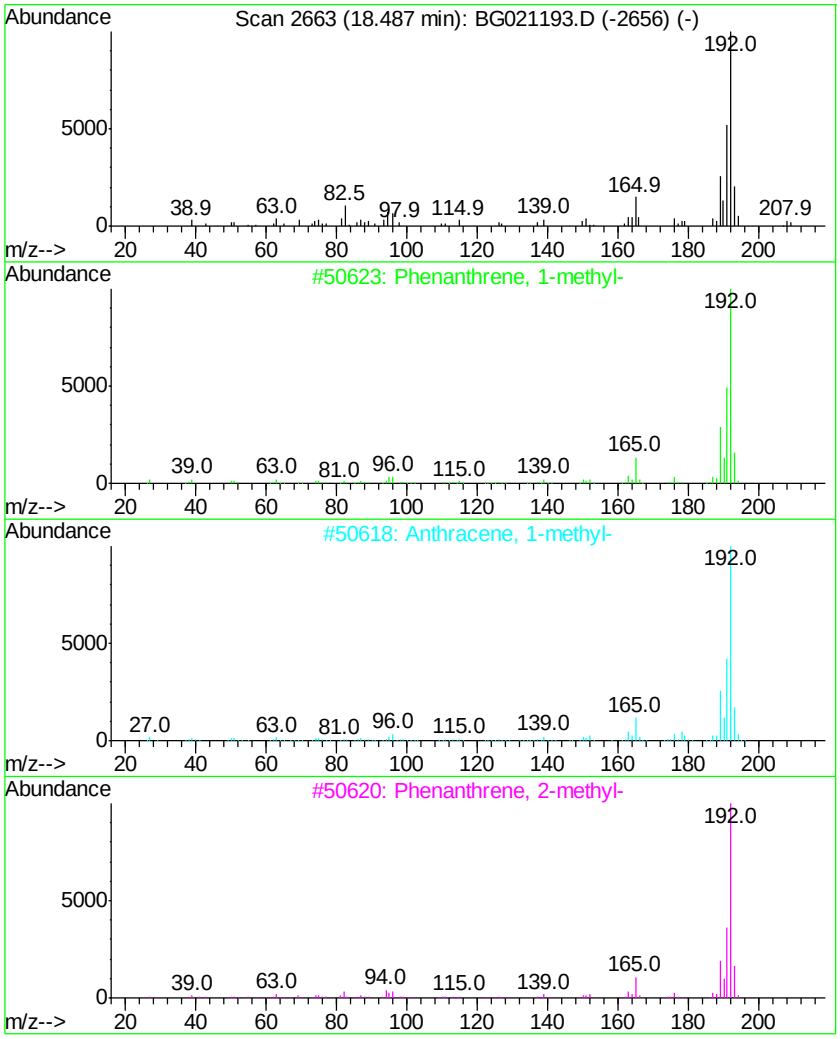
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

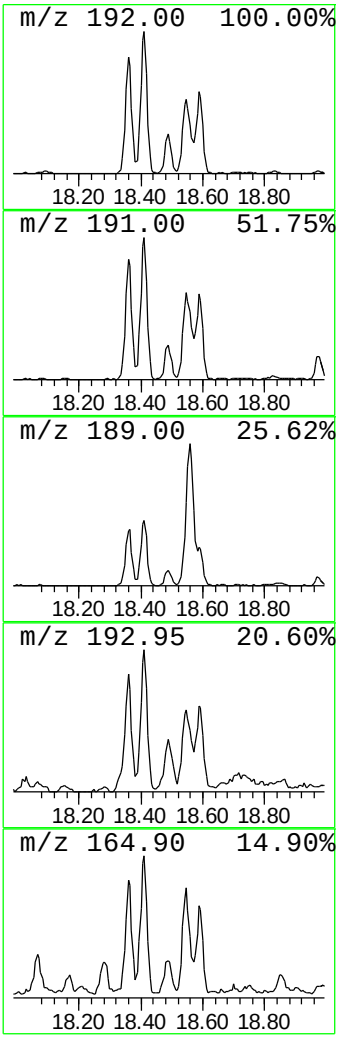
****

Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.49	8.66 ng	86772	Phenanthrene-d10	17.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	87





Data Path : Z:\HPCHEM1\BNA G\DATA\BG030116\
Data File : BG021193.D
Acq On : 1 Mar 2016 21:04
Operator : UM/SJ
Sample : H1578-03 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CEB-7(2.5-5)20160224

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

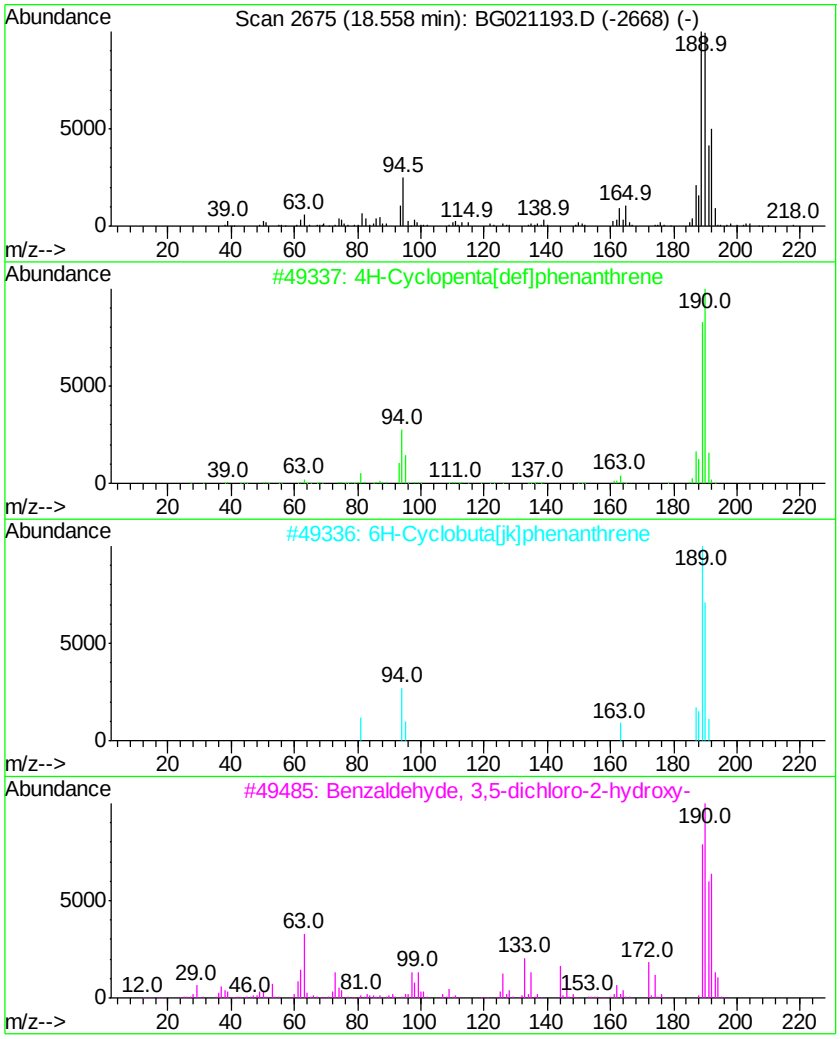
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

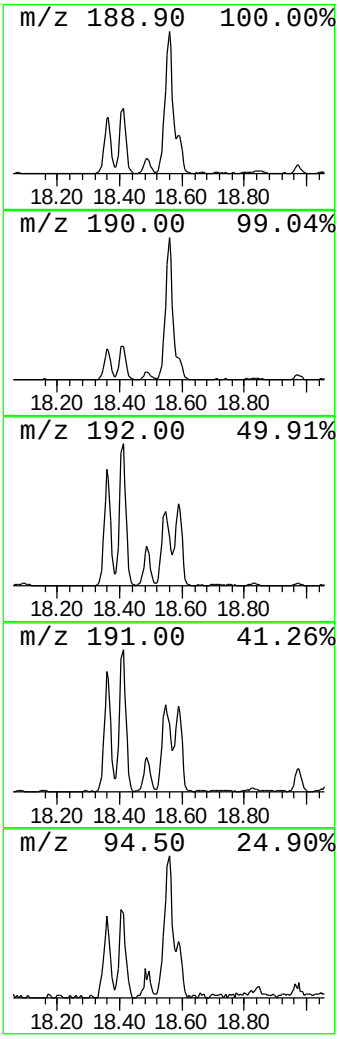
****

Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.56	36.13 ng	361924	Phenanthrene-d10	17.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	43
3	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	40
4	4,4'-Difluorobiphenyl	190	C12H8F2	000398-23-2	17
5	2-Naphthaldehyde, 1,2,3,4-tetrah...	190	C12H14O2	002472-02-8	10





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Acq On : 1 Mar 2016 21:04
Operator : UM/SJ
Sample : H1578-03 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CEB-7(2.5-5)20160224

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

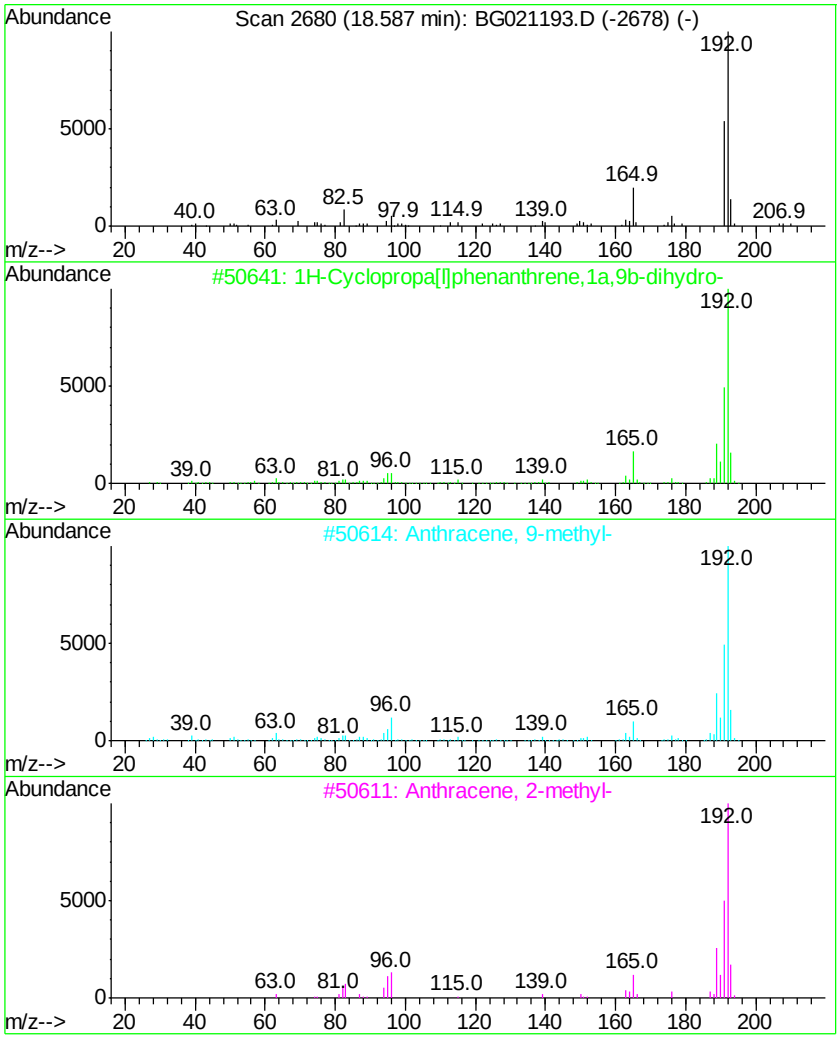
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

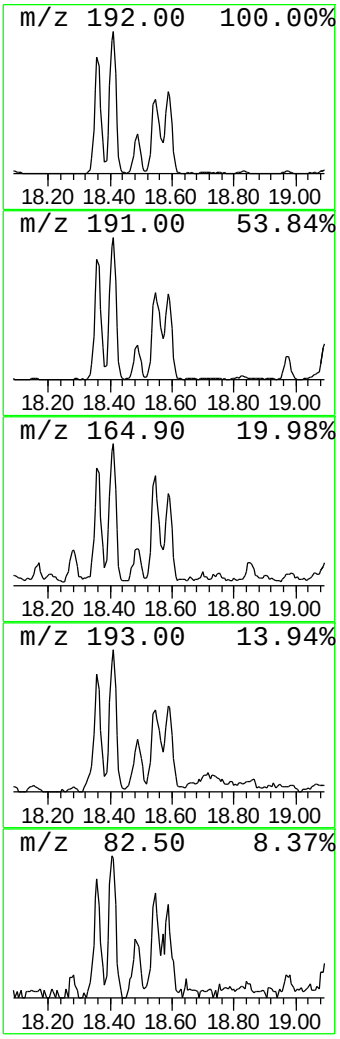
****

Peak Number 10 1H-Cyclopropa[l]phenanthren... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.59	14.00 ng	140228	Phenanthrene-d10	17.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	91
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	90





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Data File : BG021193.D
Acq On : 1 Mar 2016 21:04
Operator : UM/SJ
Sample : H1578-03 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CEB-7(2.5-5)20160224

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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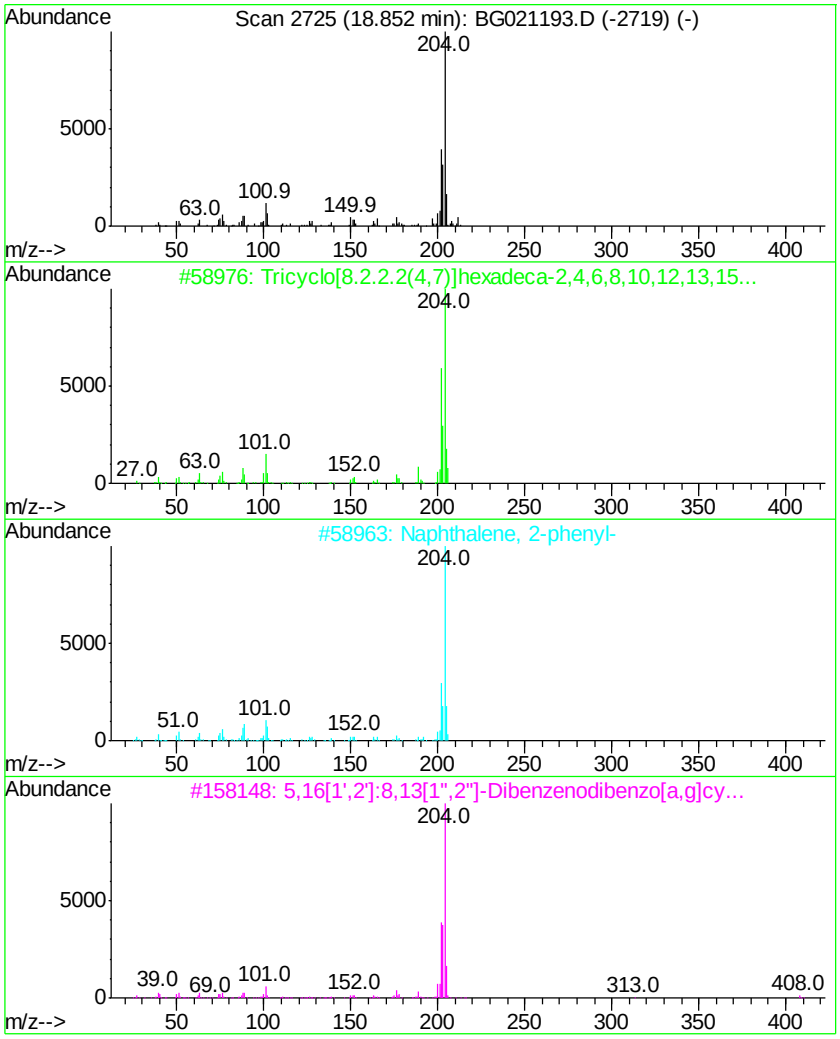
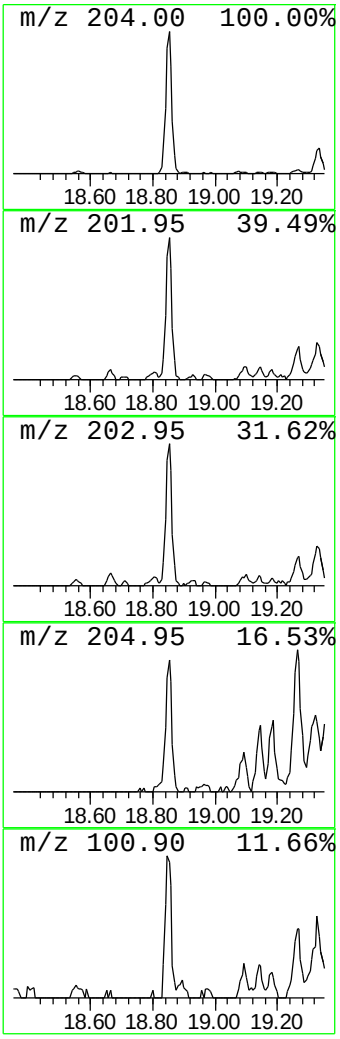
Peak Number 11 Tricyclo[8.2.2.2(4,7)]hexad... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.85	14.33 ng	143546	Phenanthrene-d10	17.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	86
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	83
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	78
4	2-Phenylnaphthalene	204	C16H12	035465-71-5	70
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	58





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Acq On : 1 Mar 2016 21:04
Operator : UM/SJ
Sample : H1578-03 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CEB-7(2.5-5)20160224

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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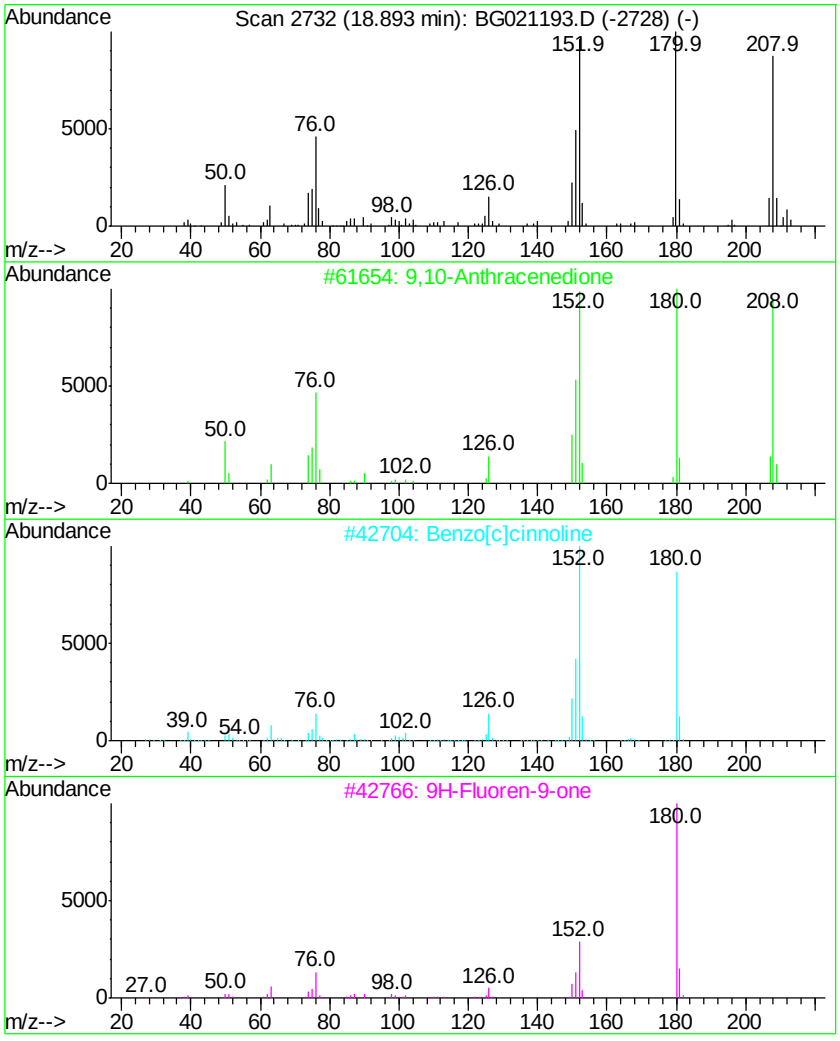
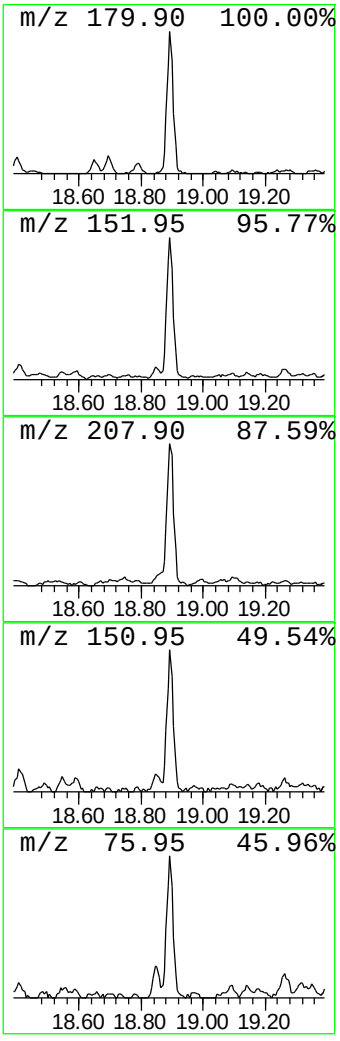
Peak Number 12 9,10-Anthracenedione Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.89	17.27 ng	173001	Phenanthrene-d10	17.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	95
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	64
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	52





Data Path : Z:\HPCHEM1\BNA G\DATA\BG030116\
Data File : BG021193.D
Acq On : 1 Mar 2016 21:04
Operator : UM/SJ
Sample : H1578-03 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CEB-7(2.5-5)20160224

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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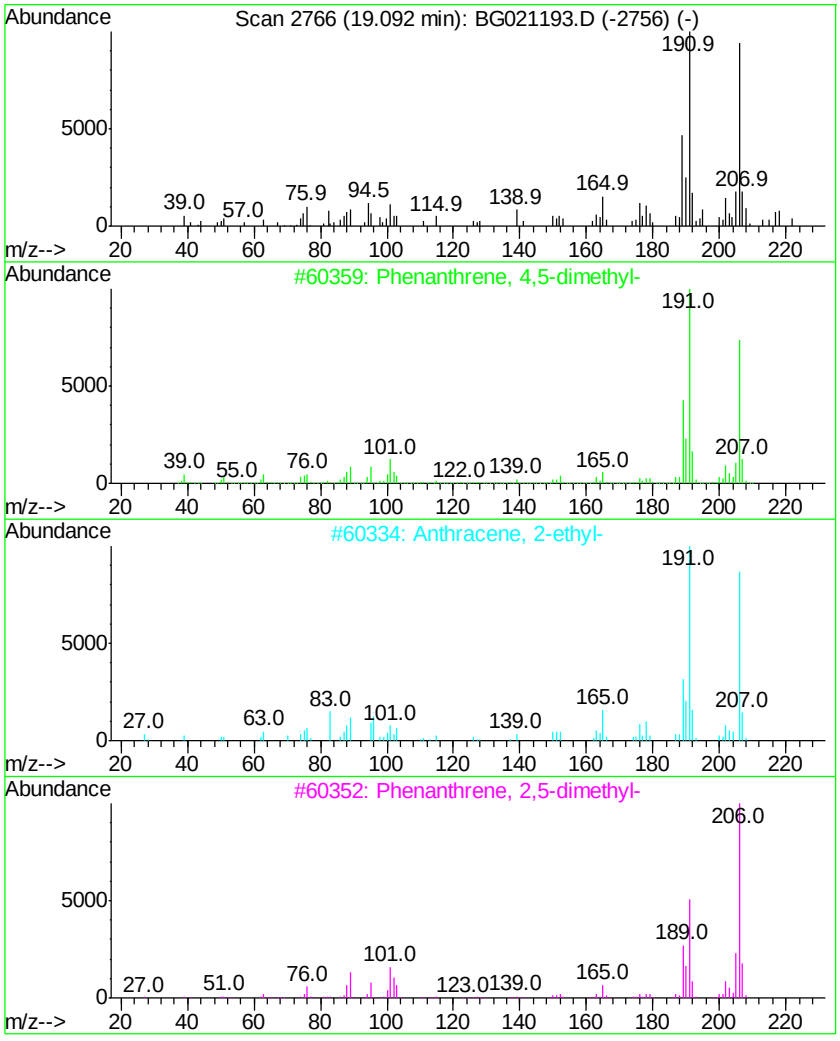
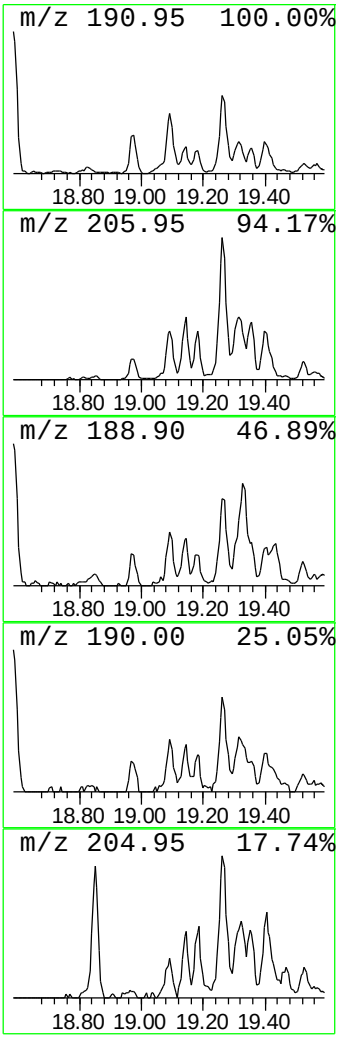
Peak Number 13 Phenanthrene, 4,5-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.09	8.52 ng	85389	Phenanthrene-d10	17.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	97
2	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	97
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
5	Phenanthrene, 9,10-dimethyl-	206	C16H14	000604-83-1	86





Data Path : Z:\HPCHEM1\BNA G\DATA\BG030116\
Data File : BG021193.D
Acq On : 1 Mar 2016 21:04
Operator : UM/SJ
Sample : H1578-03 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CEB-7(2.5-5)20160224

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

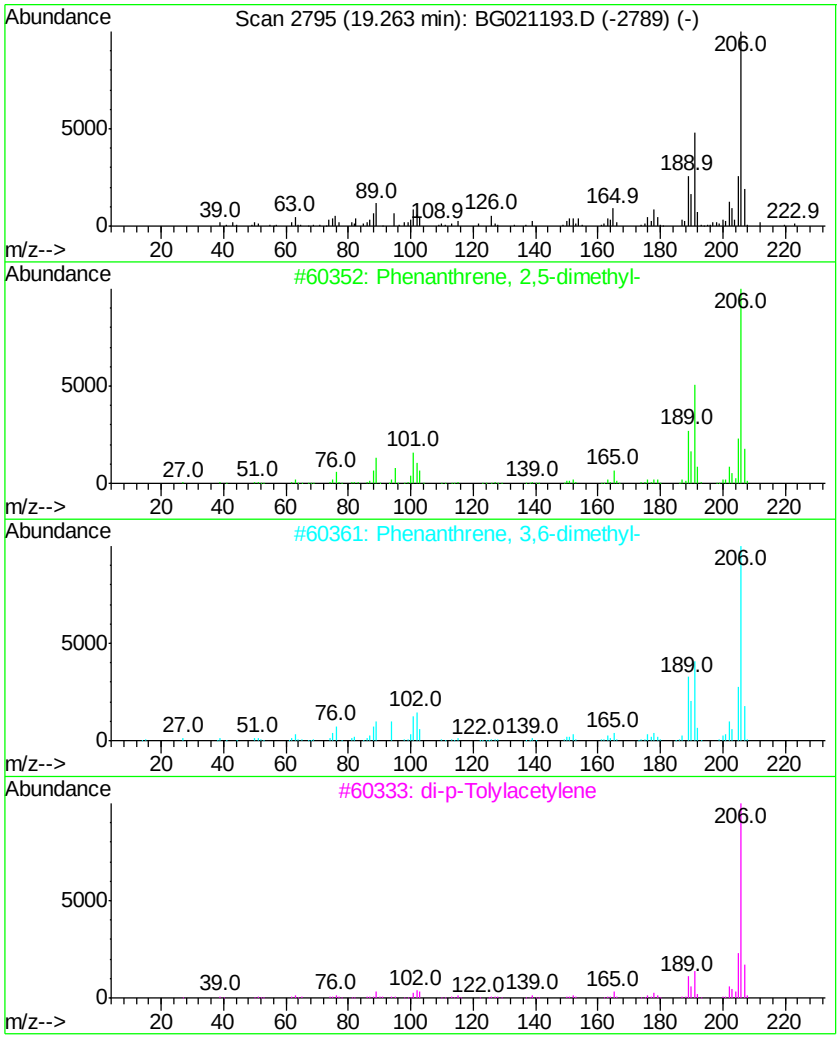
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

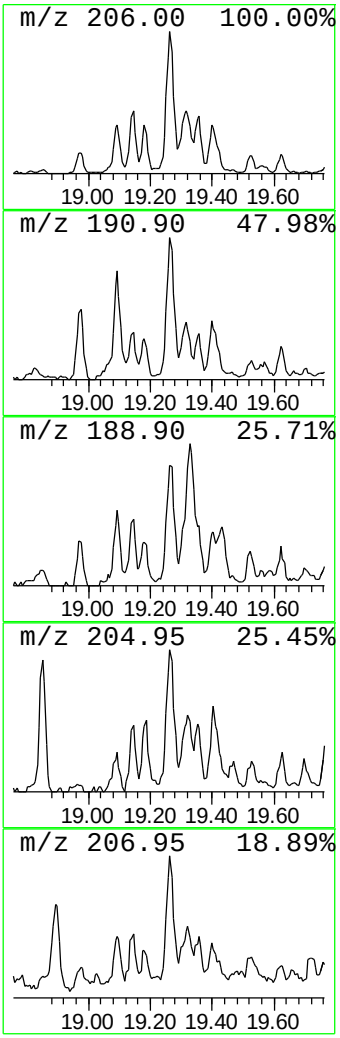
****

Peak Number 14 Phenanthrene, 2,5-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.26	16.38 ng	164101	Phenanthrene-d10	17.49

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	di-p-Tolylacetylene	206	C16H14	002789-88-0	93
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90





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Data File : BG021193.D
Acq On : 1 Mar 2016 21:04
Operator : UM/SJ
Sample : H1578-03 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CEB-7(2.5-5)20160224

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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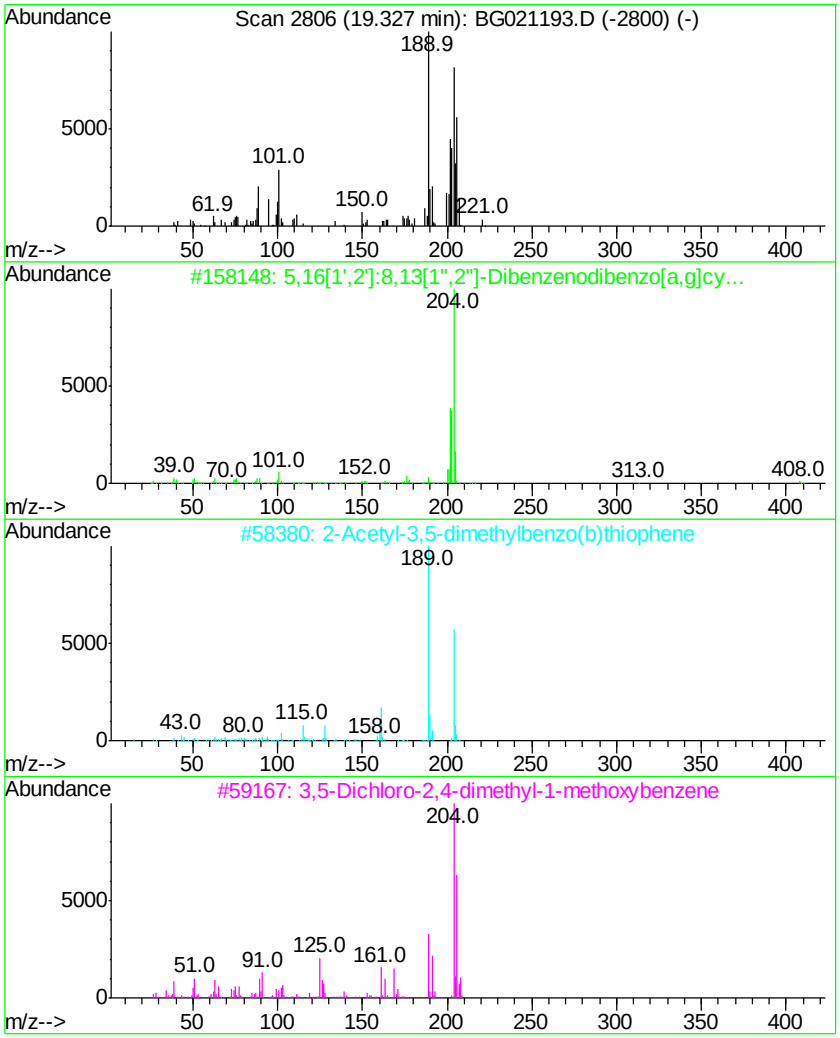
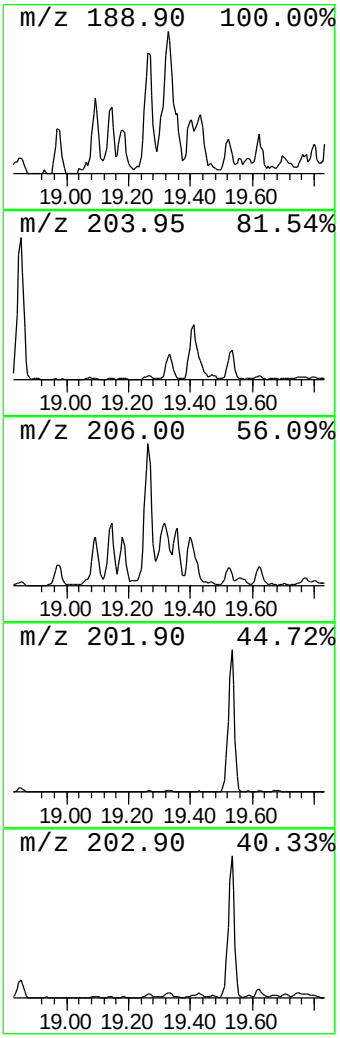
Peak Number 15 unknown19.33 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.33	7.28 ng	72948	Phenanthrene-d10	17.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	38
2	2-Acetyl-3,5-dimethylbenzo(b)thi...	204	C12H12OS	006179-05-1	35
3	3,5-Dichloro-2,4-dimethyl-1-meth...	204	C9H10Cl2O	1000250-17-8	35
4	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	35
5	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	27





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Sample : H1578-03 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CEB-7(2.5-5)20160224

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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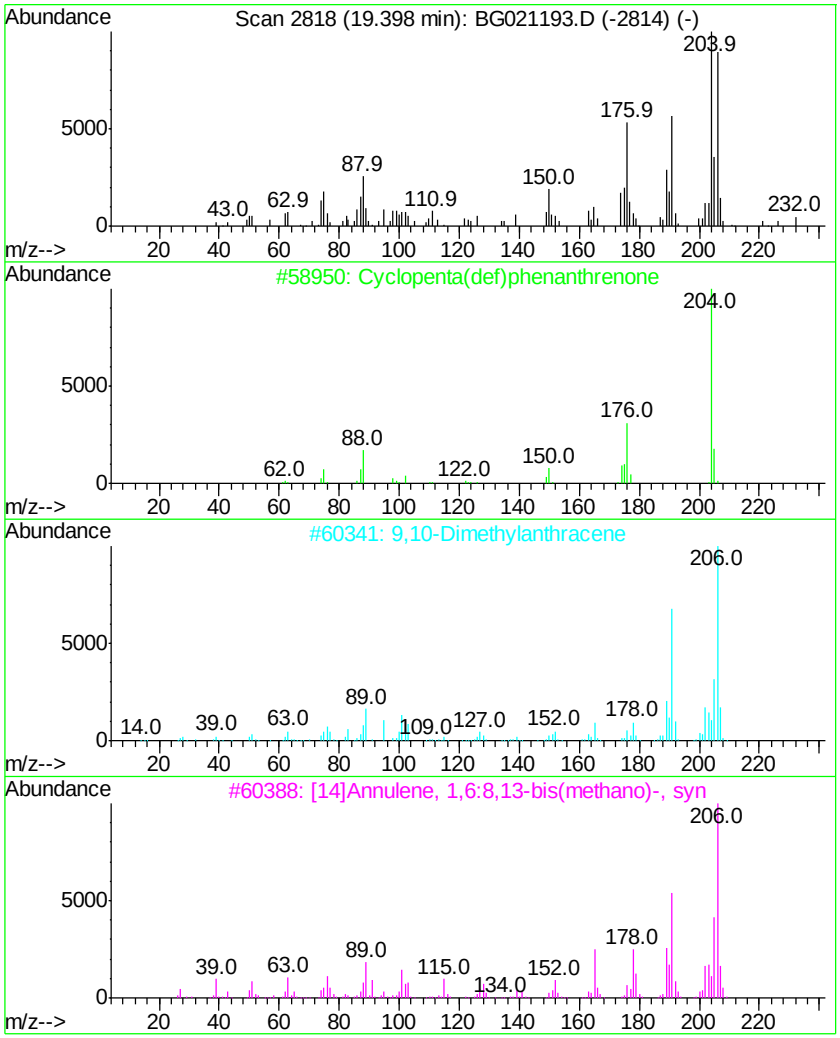
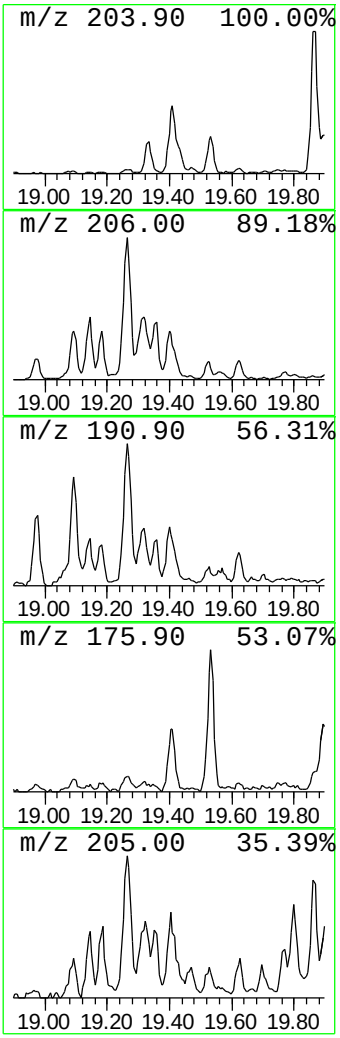
Peak Number 16 Cyclopenta(def)phenanthrenone Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.40	13.17 ng	131912	Phenanthrene-d10	17.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	55
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	42
3	[14]Annulene, 1,6:8,13-bis(metha...	206	C16H14	085385-68-8	42
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	38
5	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	35





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Sample : H1578-03 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CEB-7(2.5-5)20160224

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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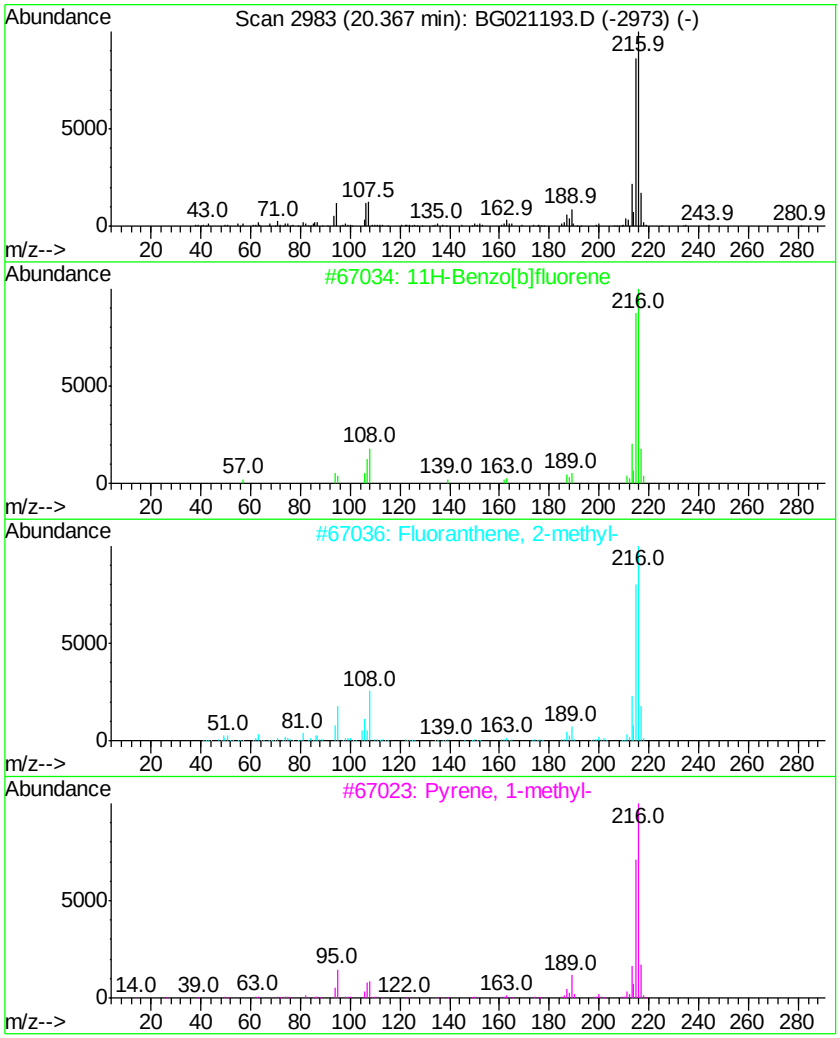
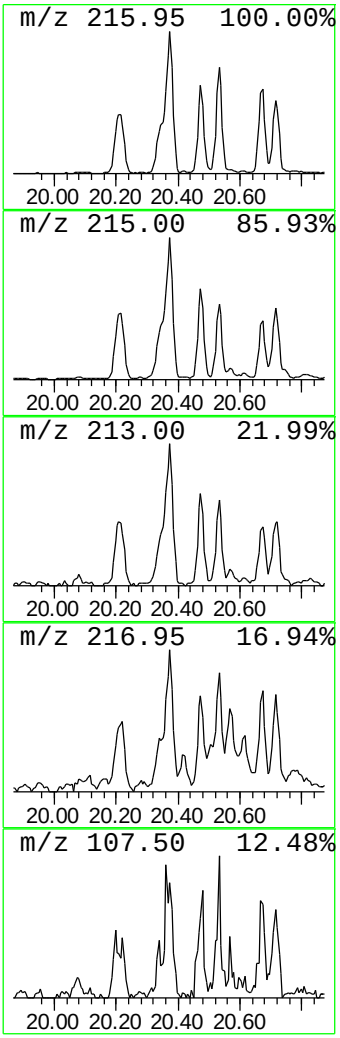
Peak Number 17 11H-Benzo[b]fluorene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.37	6.47 ng	312929	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	96
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81





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Operator : UM/SJ
Sample : H1578-03 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CEB-7(2.5-5)20160224

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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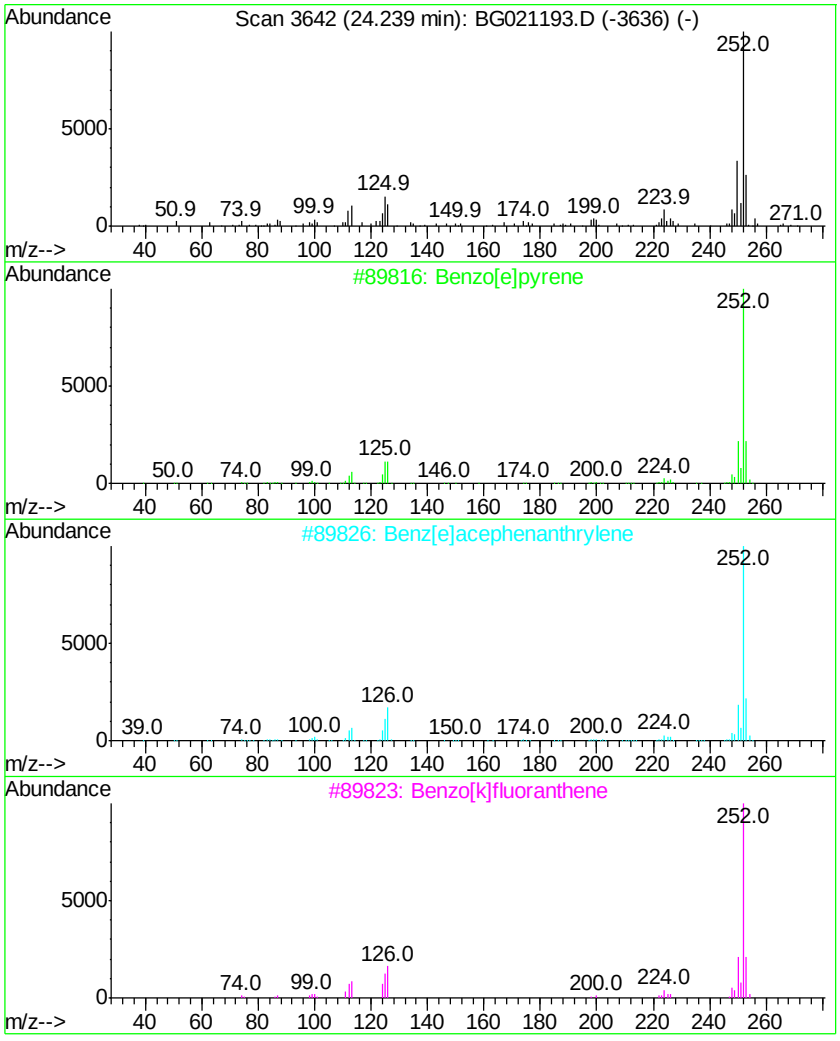
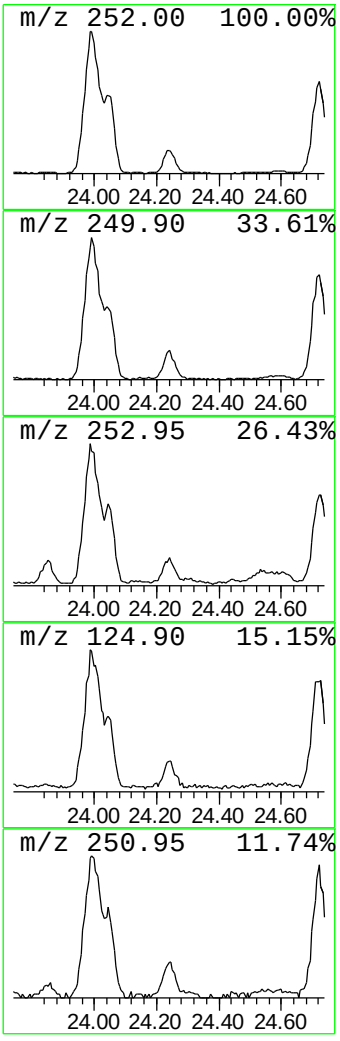
Peak Number 18 Benzo[e]pyrene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.24	7.04 ng	85542	Perylene-d12	25.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	93
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90
4	Perylene	252	C20H12	000198-55-0	89
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	76





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG030116\
Data File : BG021193.D
Acq On : 1 Mar 2016 21:04
Operator : UM/SJ
Sample : H1578-03 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CEB-7(2.5-5)20160224

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT 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
Propane, 2,2-dime...	3.06	131.2	ng	423308	1	8.15	64555	20.0
9H-Fluorene, 1-me...	16.79	6.9	ng	69218	4	17.49	200343	20.0
Dibenzothiophene	17.31	8.2	ng	82434	4	17.49	200343	20.0
Phenanthrene, 2-m...	18.36	24.1	ng	241539	4	17.49	200343	20.0
Phenanthrene, 1-m...	18.49	8.7	ng	86772	4	17.49	200343	20.0
4H-Cyclopenta[def...	18.56	36.1	ng	361924	4	17.49	200343	20.0
1H-Cyclopropa[l]p...	18.59	14.0	ng	140228	4	17.49	200343	20.0
Tricyclo[8.2.2.2(...	18.85	14.3	ng	143546	4	17.49	200343	20.0
9,10-Anthracenedione	18.89	17.3	ng	173001	4	17.49	200343	20.0
Phenanthrene, 4,5...	19.09	8.5	ng	85389	4	17.49	200343	20.0
Phenanthrene, 2,5...	19.26	16.4	ng	164101	4	17.49	200343	20.0
unknown19.33	19.33	7.3	ng	72948	4	17.49	200343	20.0
Cyclopenta(def)ph...	19.40	13.2	ng	131912	4	17.49	200343	20.0
11H-Benzo[b]fluorene	20.37	6.5	ng	312929	5	21.75	968042	20.0
Benzo[e]pyrene	24.24	7.0	ng	85542	6	25.03	242921	20.0