LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121115\
Data File : BG020082.D
Acq On : 10 Dec 2015 19:15
Operator : UM/SJ
Sample : G4683-09
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : S21-15

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-BG120215.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	2.988	20	25	44	rVB	1598068	2347956	93.15%	6.421%
2	5.186	391	399	407	rBV	90031	136395	5.41%	0.373%
3	5.656	472	479	488	rBV	415465	655259	26.00%	1.792%
4	7.265	744	753	762	rBV	438467	774812	30.74%	2.119%
5	7.641	809	817	831	rVB	436751	745352	29.57%	2.038%
6	8.112	890	897	903	rVB	69682	115836	4.60%	0.317%
7	8.435	945	952	961	rVB	290400	492944	19.56%	1.348%
8	9.281	1087	1096	1103	rBV	270648	488269	19.37%	1.335%
9	10.926	1369	1376	1381	rBV	100762	179822	7.13%	0.492%
10	10.979	1381	1385	1394	rVB	50665	84072	3.34%	0.230%
11	12.577	1650	1657	1662	rBV	35134	53328	2.12%	0.146%
12	12.794	1685	1694	1701	rVB	36370	57954	2.30%	0.158%
13	13.364	1782	1791	1800	rBV	691764	1029726	40.85%	2.816%
14	13.905	1876	1883	1890	rVB3	16253	41064	1.63%	0.112%
15	14.057	1902	1909	1914	rBV	38509	67006	2.66%	0.183%
16	14.181	1924	1930	1937	rVB	210955	299480	11.88%	0.819%
17	14.463	1972	1978	1988	rVB	34859	57761	2.29%	0.158%
18	14.739	2020	2025	2031	rVV2	171283	268049	10.63%	0.733%
19	14.804	2031	2036	2042	rVB	154527	234697	9.31%	0.642%
20	15.045	2067	2077	2086	rVV2	22718	42659	1.69%	0.117%
21	15.133	2086	2092	2100	rVV	116336	180636	7.17%	0.494%
22	15.779	2196	2202	2213	rVB	175475	278176	11.04%	0.761%
23	16.073	2248	2252	2263	rVB2	51483	85984	3.41%	0.235%
24	16.226	2263	2278	2285	rVV	730521	1154832	45.82%	3.158%
25	16.760	2361	2369	2370	rBV3	32973	58405	2.32%	0.160%
26	16.784	2370	2373	2377	rVV2	46445	65859	2.61%	0.180%
27	16.831	2377	2381	2387	rVB3	25914	40581	1.61%	0.111%
28	17.007	2403	2411	2415	rBV4	26919	63352	2.51%	0.173%
29	17.048	2415	2418	2422	rVV2	31468	51577	2.05%	0.141%
30	17.130	2426	2432	2438	rVV	71018	115468	4.58%	0.316%
31	17.230	2440	2449	2456	rVV4	47264	142306	5.65%	0.389%
32	17.301	2456	2461	2468	rVB	95589	153175	6.08%	0.419%
33	17.483	2486	2492	2495	rBV	216378	352254	13.97%	0.963%
34	17.530	2495	2500	2506	rVV	1628842	2520602	100.00%	6.894%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121115\
Data File : BG020082.D
Acq On : 10 Dec 2015 19:15
Operator : UM/SJ
Sample : G4683-09
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : S21-15

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-BG120215.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	17.618	2506	2515	2520	rVV	372354	617208	24.49%	1.688%
36	17.671	2520	2524	2529	rVB2	31137	51290	2.03%	0.140%
37	17.882	2550	2560	2569	rBV2	135056	272573	10.81%	0.745%
38	18.000	2576	2580	2584	rBV2	32366	48244	1.91%	0.132%
39	18.059	2586	2590	2600	rVB6	28002	52132	2.07%	0.143%
40	18.352	2631	2640	2645	rBV	278931	446267	17.70%	1.220%
41	18.405	2645	2649	2656	rVB	305406	444641	17.64%	1.216%
42	18.482	2656	2662	2667	rBV	122193	195697	7.76%	0.535%
43	18.552	2667	2674	2678	rBV2	285934	584063	23.17%	1.597%
44	18.582	2678	2679	2685	rVB	149277	156813	6.22%	0.429%
45	18.846	2719	2724	2728	rBV	157529	227031	9.01%	0.621%
46	18.887	2728	2731	2738	rVB	134394	193517	7.68%	0.529%
47	18.969	2741	2745	2753	rVB	33019	49289	1.96%	0.135%
48	19.093	2757	2766	2770	rBV2	70362	124648	4.95%	0.341%
49	19.140	2770	2774	2777	rVV	37953	47123	1.87%	0.129%
50	19.181	2777	2781	2784	rVV2	34471	43235	1.72%	0.118%
51	19.263	2789	2795	2800	rBV	121469	236366	9.38%	0.646%
52	19.328	2800	2806	2809	rBV3	46875	84334	3.35%	0.231%
53	19.404	2814	2819	2826	rVV3	82264	150141	5.96%	0.411%
54	19.533	2834	2841	2846	rVB	1649613	2410341	95.63%	6.592%
55	19.622	2852	2856	2861	rVB2	76939	108357	4.30%	0.296%
56	19.716	2868	2872	2875	rBV3	32499	51719	2.05%	0.141%
57	19.768	2875	2881	2885	rBV2	64680	102241	4.06%	0.280%
58	19.857	2890	2896	2898	rBV2	332770	512177	20.32%	1.401%
59	19.892	2898	2902	2908	rVB	1429658	2090701	82.94%	5.718%
60	19.956	2908	2913	2919	rVB3	111773	185697	7.37%	0.508%
61	20.080	2921	2934	2939	rBV	1313713	1931790	76.64%	5.283%
62	20.121	2939	2941	2949	rVB	85009	123042	4.88%	0.337%
63	20.203	2949	2955	2957	rBV	116632	221695	8.80%	0.606%
64	20.262	2962	2965	2971	rVV2	25338	47283	1.88%	0.129%
65	20.344	2972	2979	2980	rVV5	83549	159187	6.32%	0.435%
66	20.374	2980	2984	2989	rVB	222020	357781	14.19%	0.978%
67	20.479	2996	3002	3005	rBV	144438	220965	8.77%	0.604%
68	20.532	3005	3011	3015	rVV2	161909	300090	11.91%	0.821%
69	20.573	3015	3018	3021	rVV	54373	61915	2.46%	0.169%
70	20.609	3021	3024	3029	rVB2	35591	48561	1.93%	0.133%
71	20.673	3031	3035	3039	rBV	93353	134744	5.35%	0.369%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121115\
Data File : BG020082.D
Acq On : 10 Dec 2015 19:15
Operator : UM/SJ
Sample : G4683-09
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : S21-15

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-BG120215.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	20.720	3039	3043	3046	rVB	83778	108542	4.31%	0.297%
73	20.961	3081	3084	3088	rVV3	36930	59568	2.36%	0.163%
74	21.096	3103	3107	3110	rVV4	24879	43558	1.73%	0.119%
75	21.137	3110	3114	3121	rVB	119970	193974	7.70%	0.530%
76	21.325	3138	3146	3150	rVV2	104350	250739	9.95%	0.686%
77	21.372	3150	3154	3158	rVV	162002	262663	10.42%	0.718%
78	21.425	3158	3163	3167	rVV2	115199	230199	9.13%	0.630%
79	21.478	3167	3172	3181	rVB2	132219	255214	10.13%	0.698%
80	21.613	3185	3195	3205	rBV3	41755	152227	6.04%	0.416%
81	21.737	3205	3216	3223	rVV3	783908	1873172	74.31%	5.123%
82	21.807	3223	3228	3240	rVB	642193	1132091	44.91%	3.096%
83	21.960	3249	3254	3261	rBV	88356	151741	6.02%	0.415%
84	22.166	3284	3289	3296	rBV2	75548	160278	6.36%	0.438%
85	22.495	3337	3345	3352	rVV	113964	254511	10.10%	0.696%
86	22.565	3353	3357	3363	rVB	62788	123182	4.89%	0.337%
87	22.706	3379	3381	3387	rVB4	30467	44349	1.76%	0.121%
88	22.777	3388	3393	3396	rBV2	49609	83816	3.33%	0.229%
89	22.818	3397	3400	3408	rVB4	53155	108813	4.32%	0.298%
90	22.918	3410	3417	3426	rBV4	37978	100447	3.99%	0.275%
91	23.176	3455	3461	3467	rBV3	29459	61452	2.44%	0.168%
92	23.999	3590	3601	3608	rBV3	315810	1116811	44.31%	3.054%
93	24.251	3638	3644	3653	rVB	61001	148723	5.90%	0.407%
94	24.469	3674	3681	3683	rBV5	25684	56556	2.24%	0.155%
95	24.733	3718	3726	3741	rVB2	186221	572324	22.71%	1.565%
96	24.886	3741	3752	3765	rVB	308176	865969	34.36%	2.368%
97	25.039	3769	3778	3785	rVV	147123	451688	17.92%	1.235%
98	25.109	3786	3790	3805	rVB2	82008	255963	10.15%	0.700%
99	28.781	4404	4415	4439	rVB3	106288	566648	22.48%	1.550%
100	29.951	4599	4614	4627	rBV4	68017	350928	13.92%	0.960%

Sum of corrected areas: 36564692

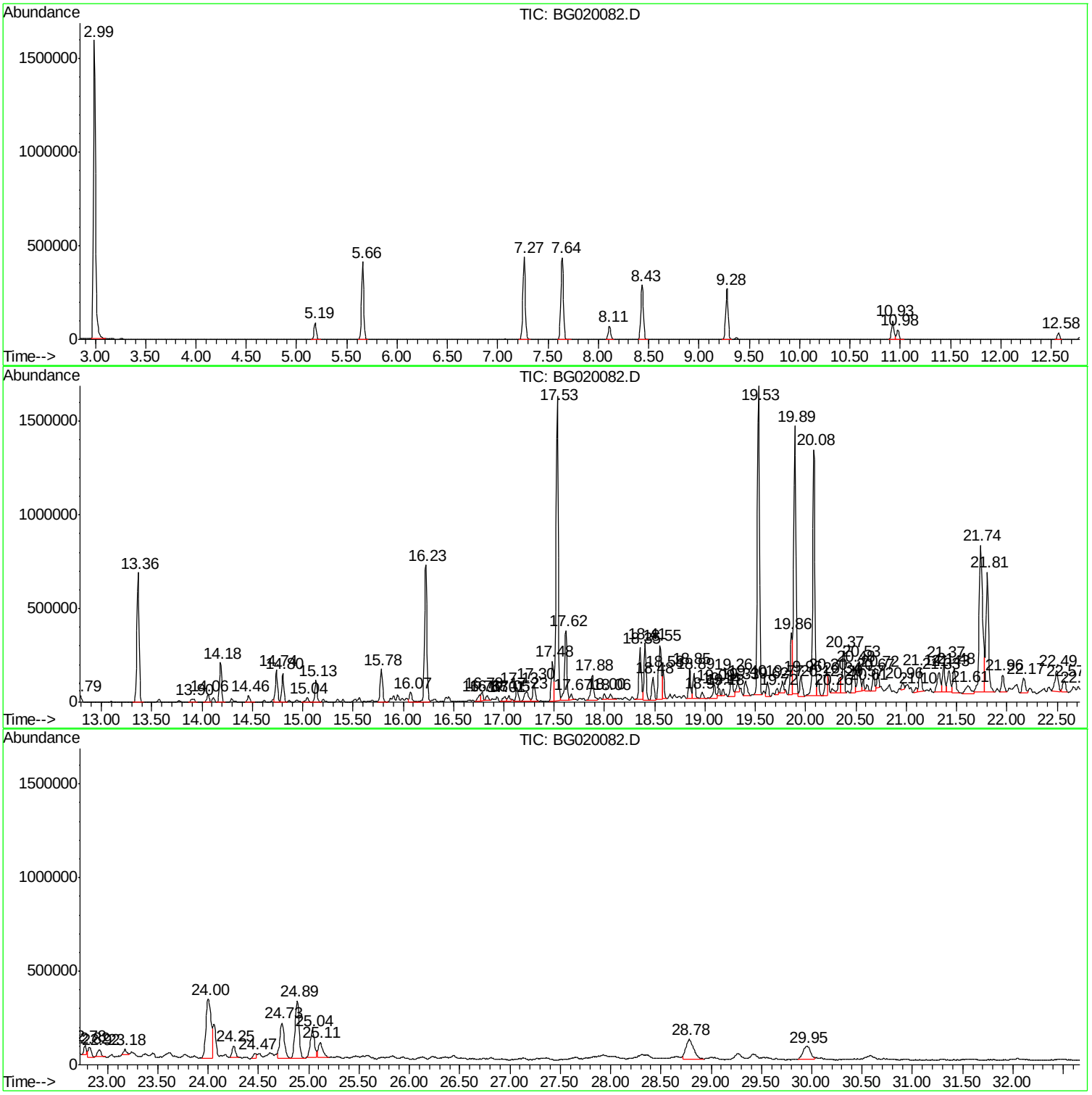
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121115\
Data File : BG020082.D
Acq On : 10 Dec 2015 19:15
Operator : UM/SJ
Sample : G4683-09
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : S21-15

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG120215.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121115\
Data File : BG020082.D
Acq On : 10 Dec 2015 19:15
Operator : UM/SJ
Sample : G4683-09
Misc :
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Instrument : BNA_G
ClientSampleId : S21-15

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG120215.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

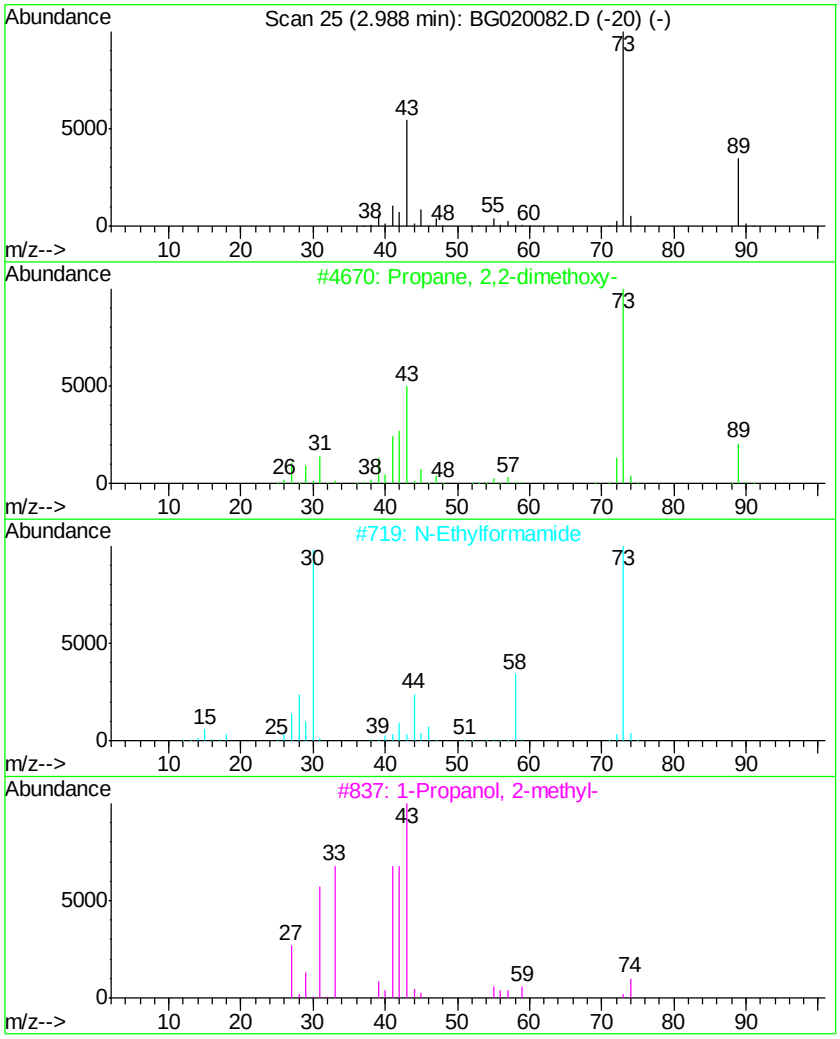
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

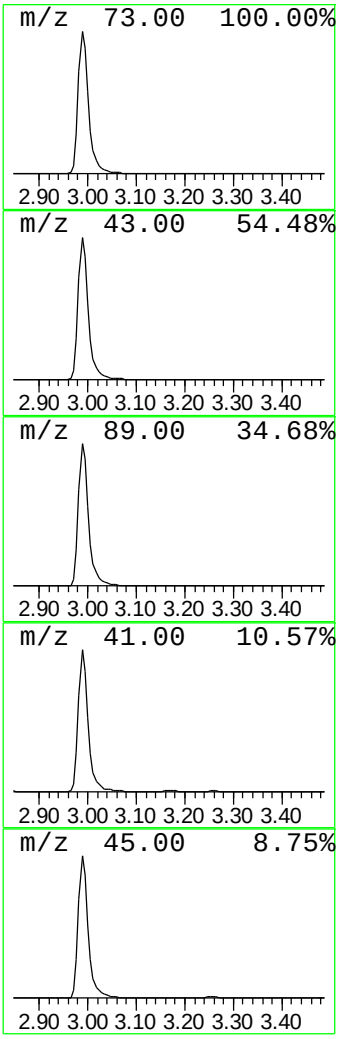
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.99	405.39 ng	2347960	1,4-Dichlorobenzene-d4	8.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane, 2,2-dimethoxy-	104	C5H12O2	000077-76-9	56
2	N-Ethylformamide	73	C3H7NO	000627-45-2	9
3	1-Propanol, 2-methyl-	74	C4H10O	000078-83-1	9
4	1,3-Diaminoguanidine	89	CH7N5	004364-78-7	9
5	1-Hexen-4-ol, 1-chloro-3,5-dimet...	162	C8H15ClO	100244-09-5	9





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121115\
Data File : BG020082.D
Acq On : 10 Dec 2015 19:15
Operator : UM/SJ
Sample : G4683-09
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : S21-15

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG120215.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

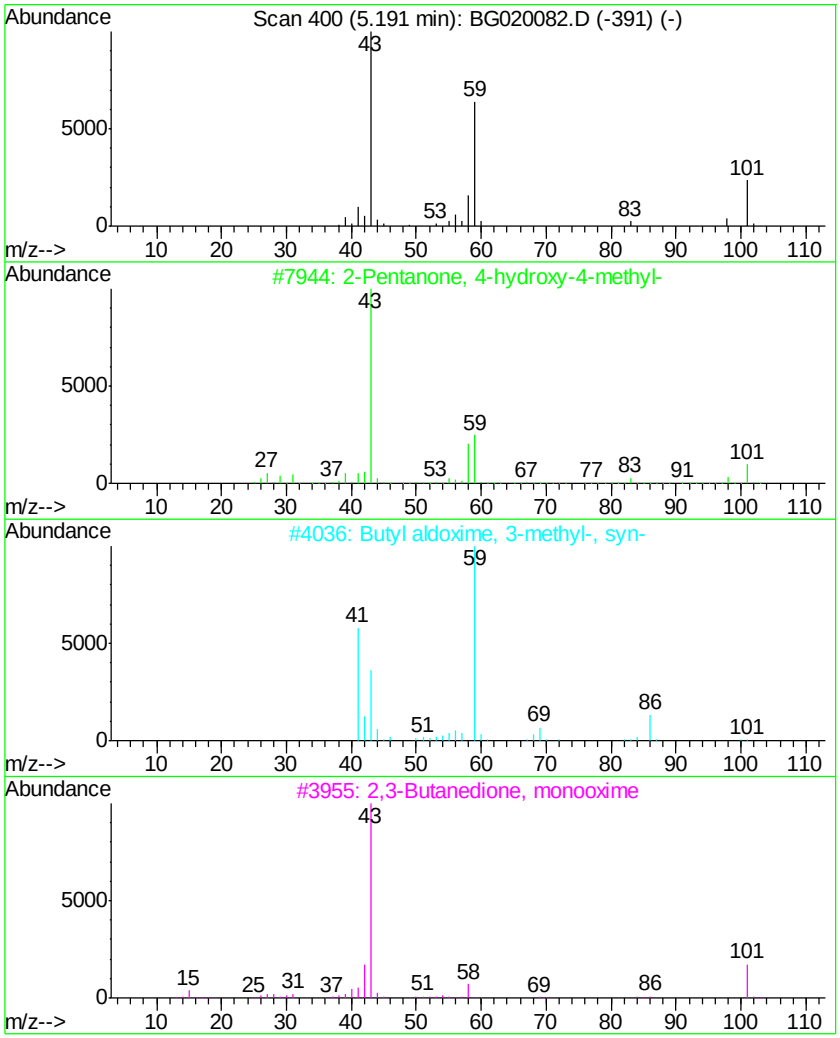
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

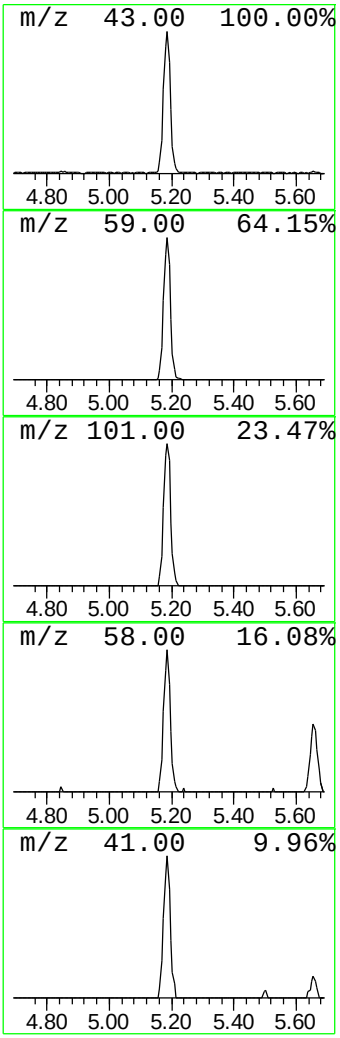
****

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.19	23.55 ng	136395	1,4-Dichlorobenzene-d4	8.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	72
2	Butyl aldoxime, 3-methyl-, syn-	101	C5H11NO	005780-40-5	25
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	25
4	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
5	Acetone	58	C3H6O	000067-64-1	9





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121115\
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Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : S21-15

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG120215.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

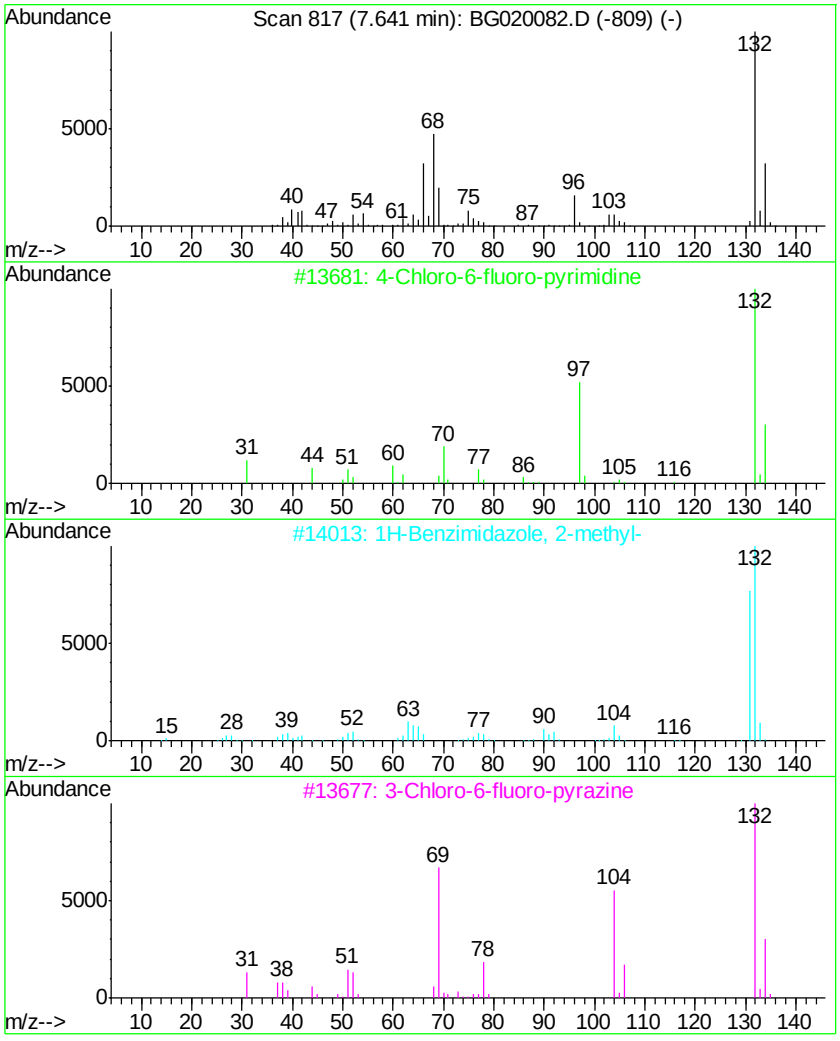
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

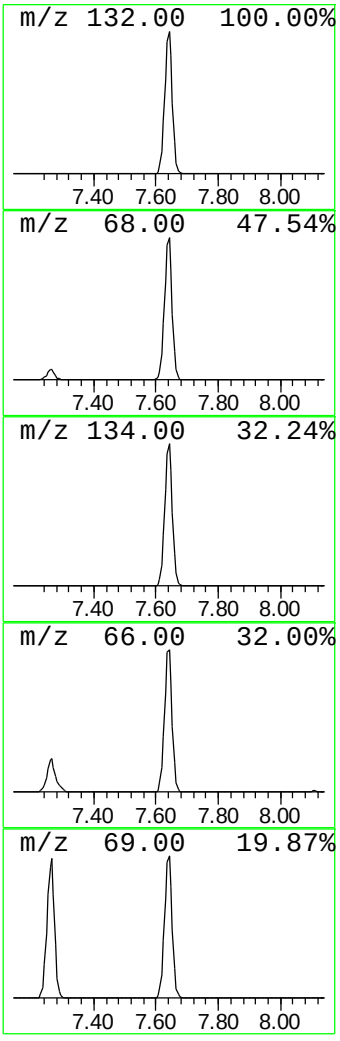
****

Peak Number 3 unknown7.64 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.64	128.69 ng	745352	1,4-Dichlorobenzene-d4	8.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	27
2	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	22
3	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	16
4	1,3-Cyclopentanedione, 2-chloro-	132	C5H5ClO2	014203-19-1	13
5	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	12





Data Path : Z:\HPCHEM1\BNA G\DATA\BG121115\
Data File : BG020082.D
Acq On : 10 Dec 2015 19:15
Operator : UM/SJ
Sample : G4683-09
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : S21-15

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG120215.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

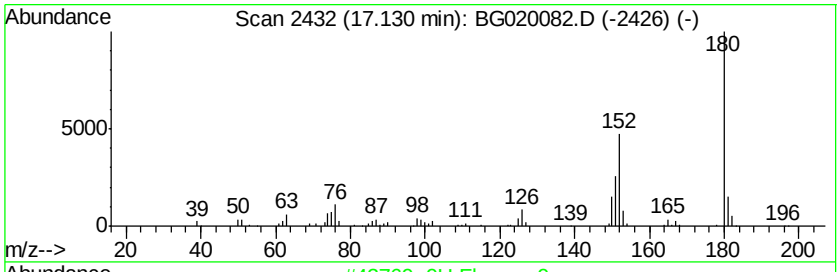
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

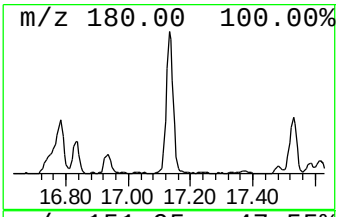
****

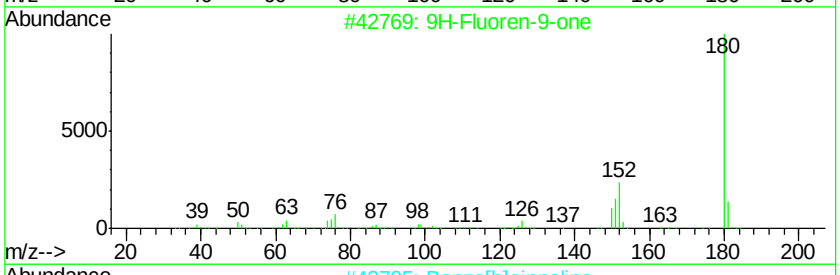
Peak Number 5 9H-Fluoren-9-one Concentration Rank 20

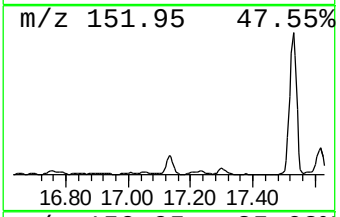
R.T.	EstConc	Area	Relative to ISTD	R.T.
17.13	6.56 ng	115468	Phenanthrene-d10	17.48

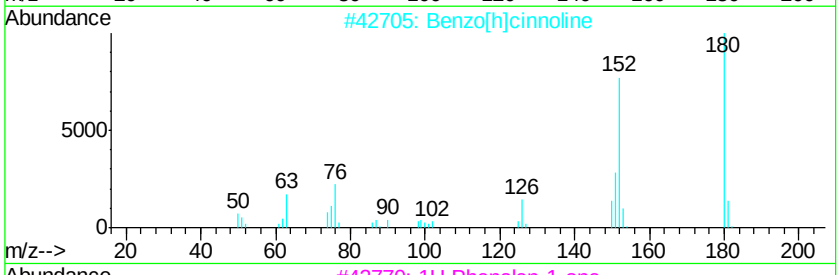
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	97
2	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	91
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	50
4	1,1'-Biphenyl, 4-ethenyl-	180	C14H12	002350-89-2	50
5	Phenazine	180	C12H8N2	000092-82-0	47

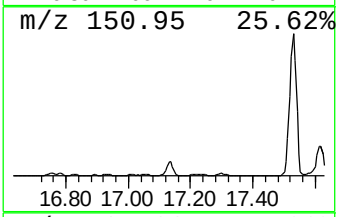


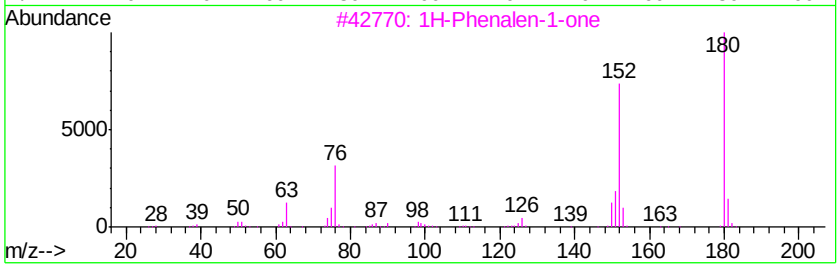


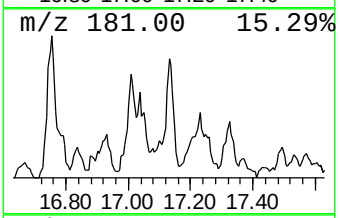


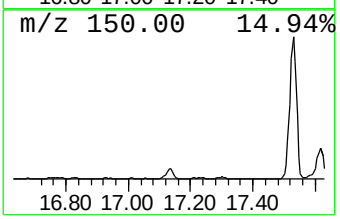












Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121115\
Data File : BG020082.D
Acq On : 10 Dec 2015 19:15
Operator : UM/SJ
Sample : G4683-09
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : S21-15

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG120215.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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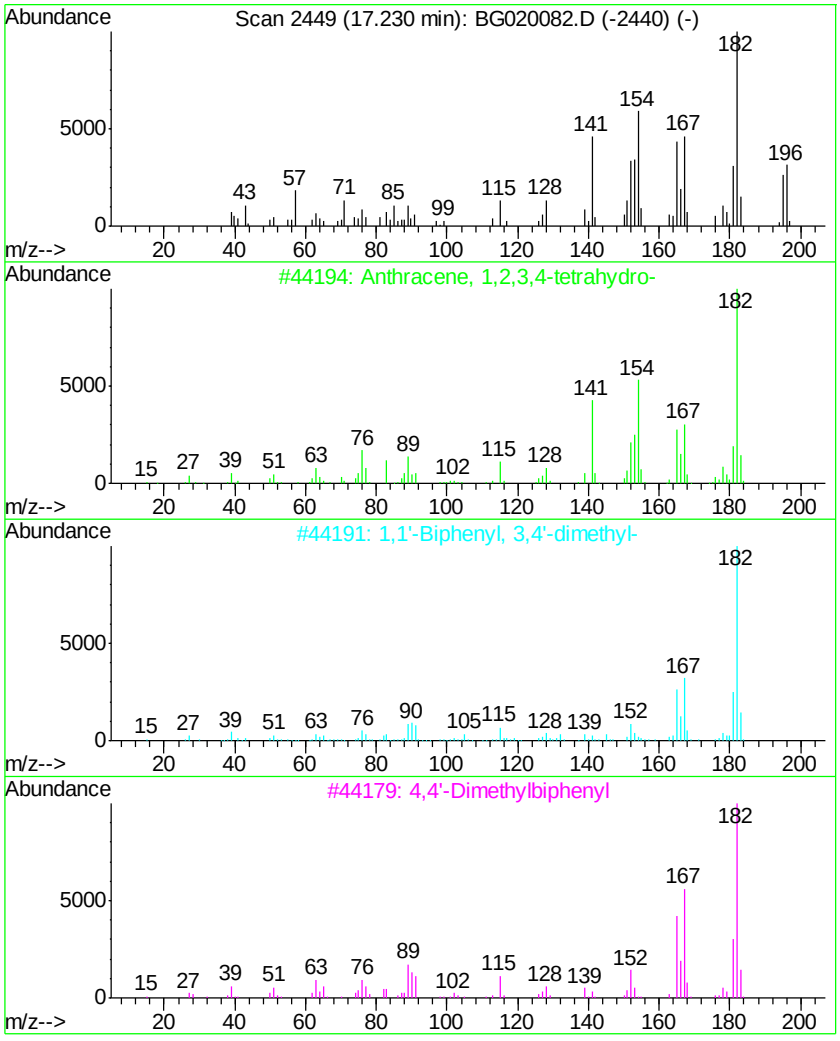
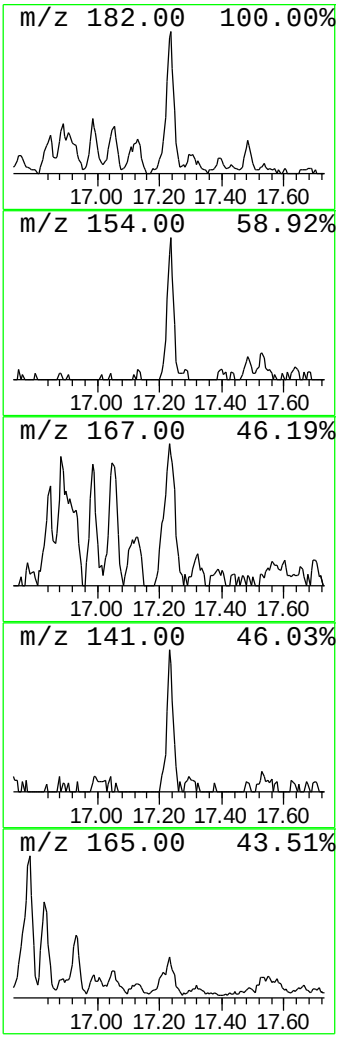
Peak Number 6 Anthracene, 1,2,3,4-tetrahy... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.23	8.08 ng	142306	Phenanthrene-d10	17.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	95
2	1,1'-Biphenyl, 3,4'-dimethyl-	182	C14H14	007383-90-6	60
3	4,4'-Dimethylbiphenyl	182	C14H14	000613-33-2	60
4	3,3'-Dimethylbiphenyl	182	C14H14	000612-75-9	53
5	Phenanthrene, 1,2,3,4-tetrahydro-	182	C14H14	001013-08-7	49





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Sample : G4683-09
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ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : S21-15

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG120215.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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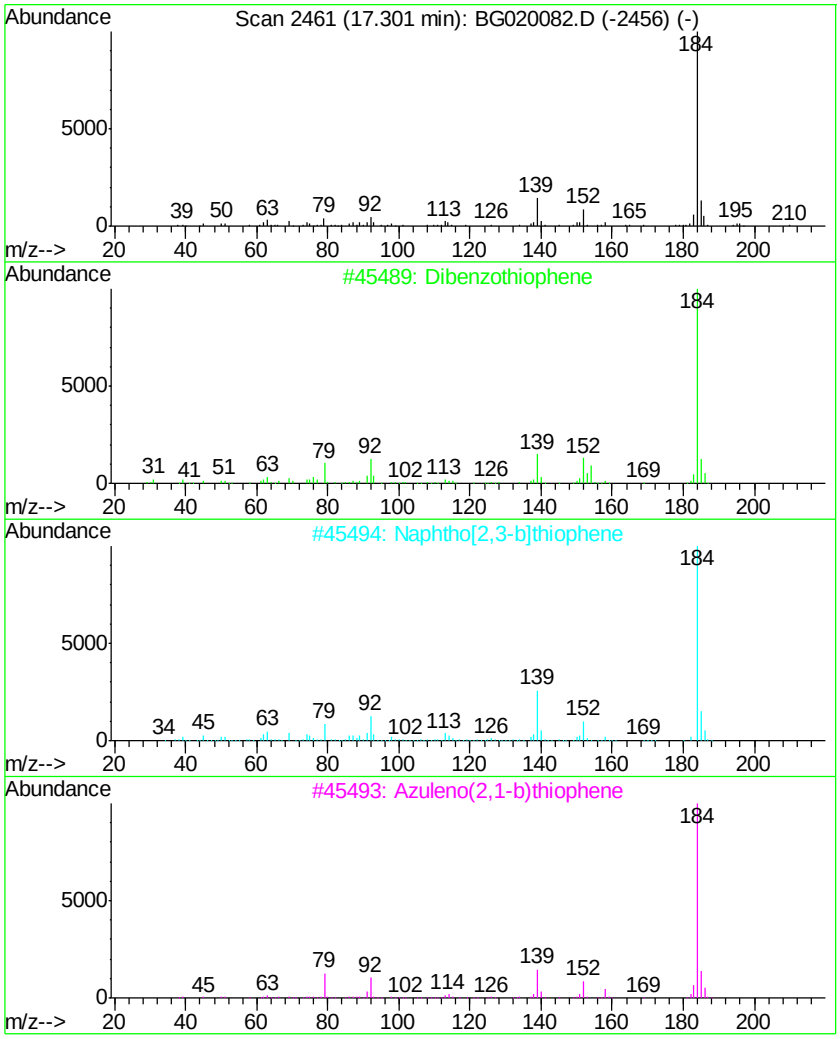
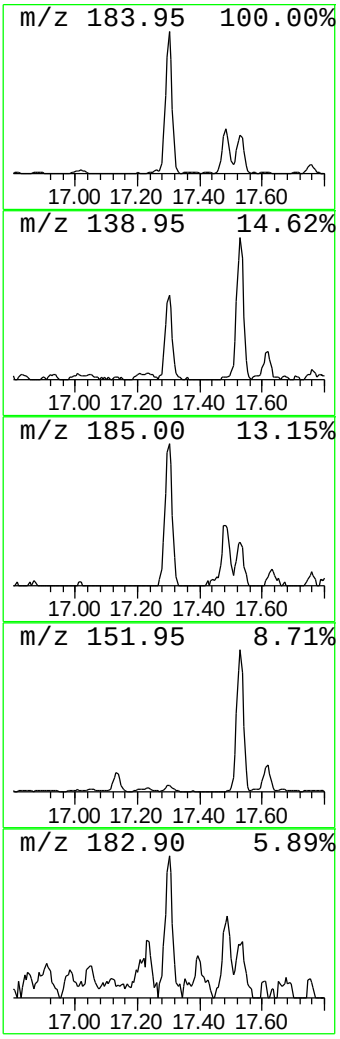
Peak Number 7 Dibenzothiophene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.30	8.70 ng	153175	Phenanthrene-d10	17.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	94
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
3	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
4	Naphthalene, 2-ethenyl-6-methoxy-	184	C13H12O	063444-51-9	80
5	Dibenzothiophene, 5-oxide	200	C12H8OS	001013-23-6	72





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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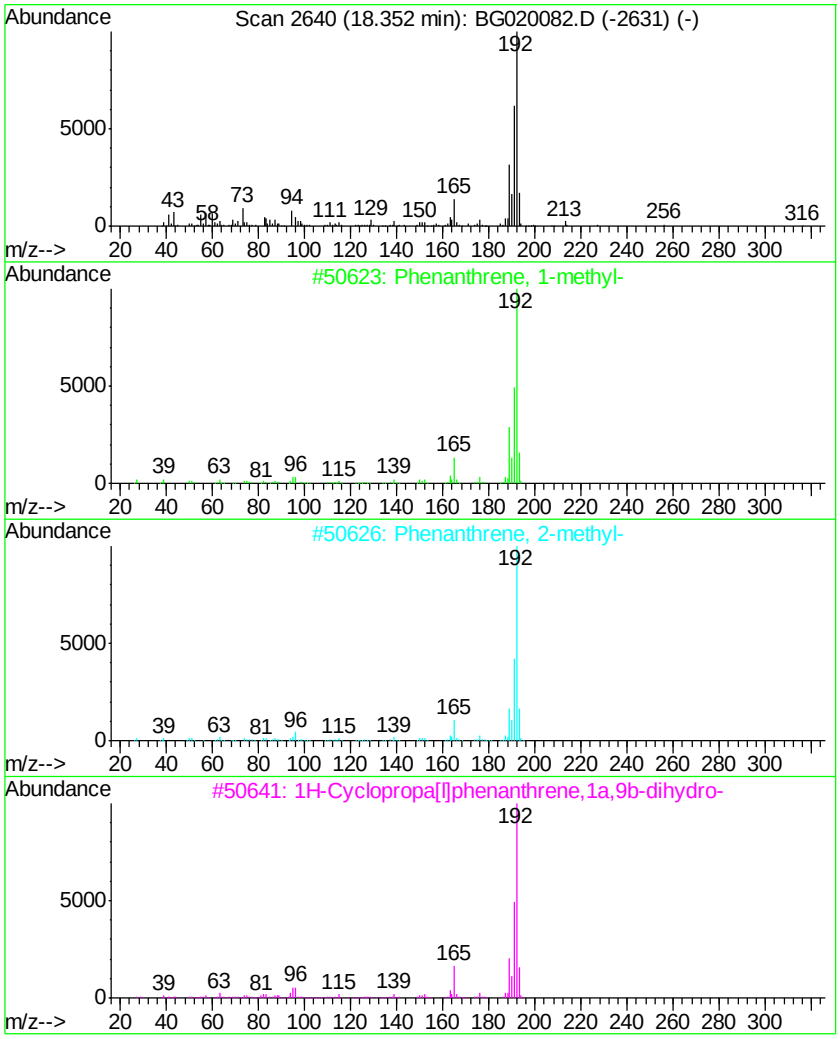
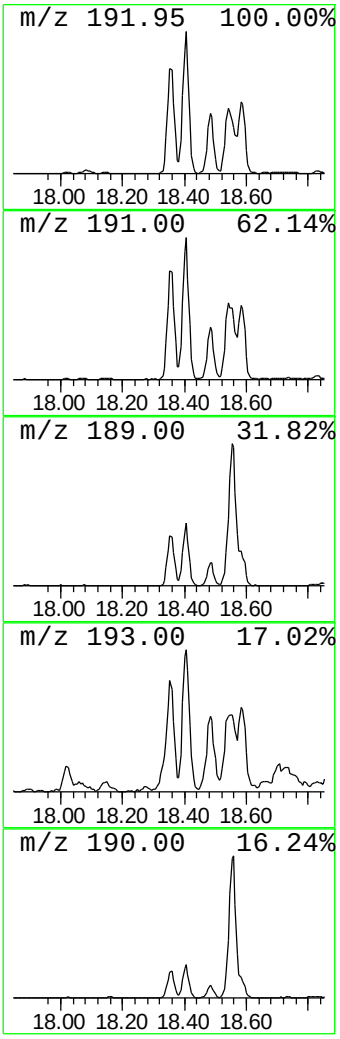
Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.35	25.34 ng	446267	Phenanthrene-d10	17.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	94





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Sample : G4683-09
Misc :
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ClientSampleId : S21-15

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG120215.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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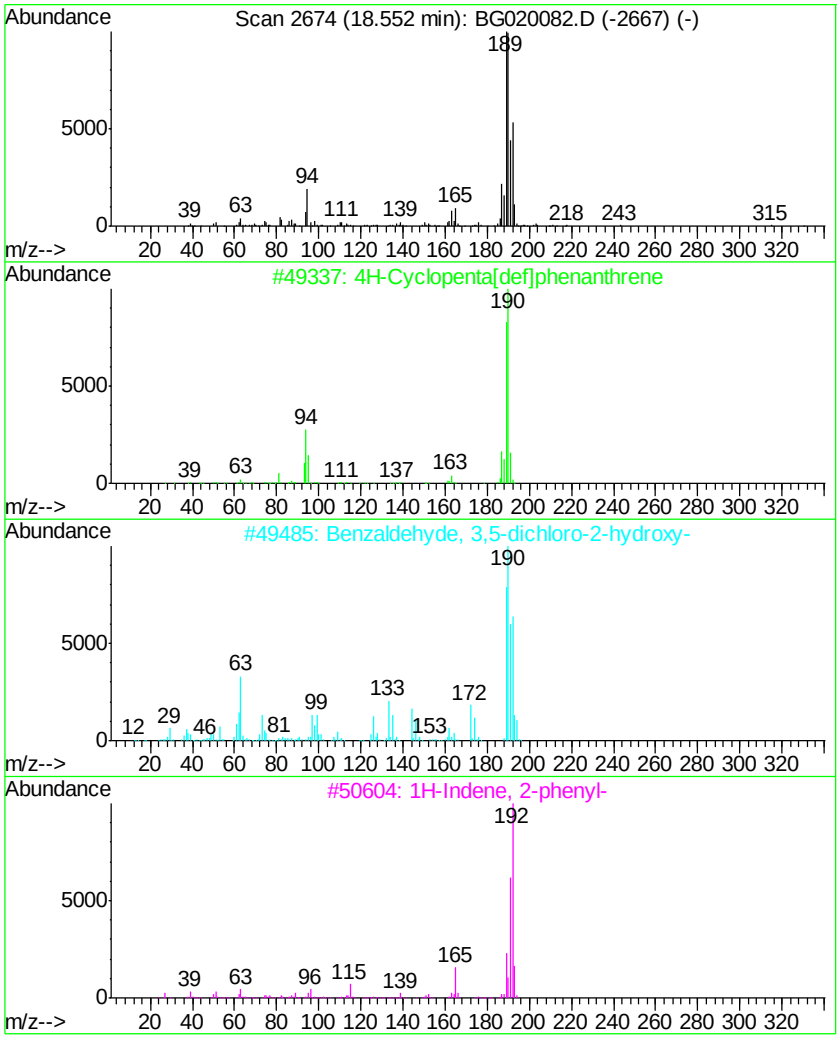
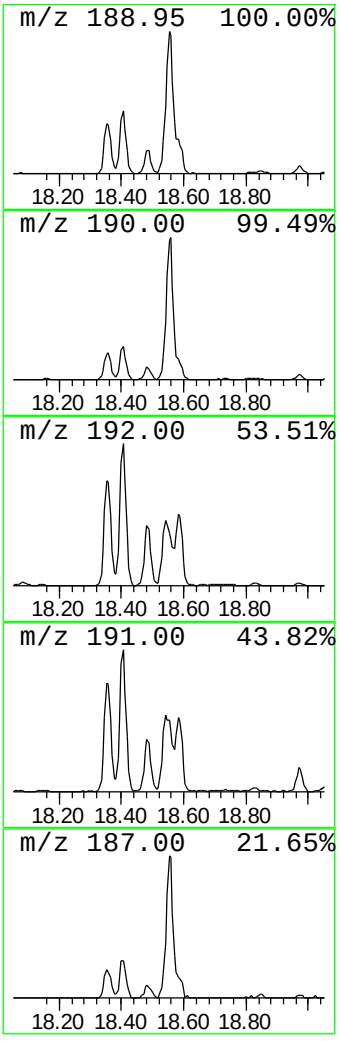
Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.55	33.16 ng	584063	Phenanthrene-d10	17.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	62
2	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	50
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	30
4	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	25
5	Benzene, 1,1'-(1,2-propadienylid...	192	C15H12	014251-57-1	22





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Sample : G4683-09
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : S21-15

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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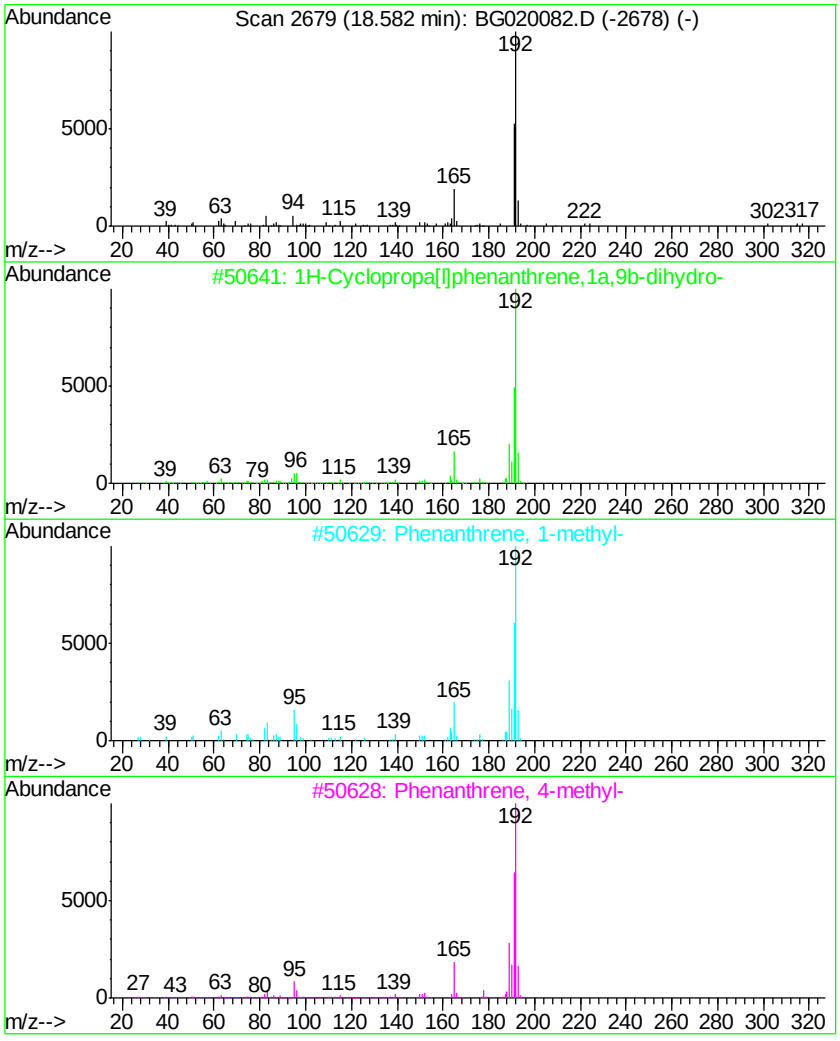
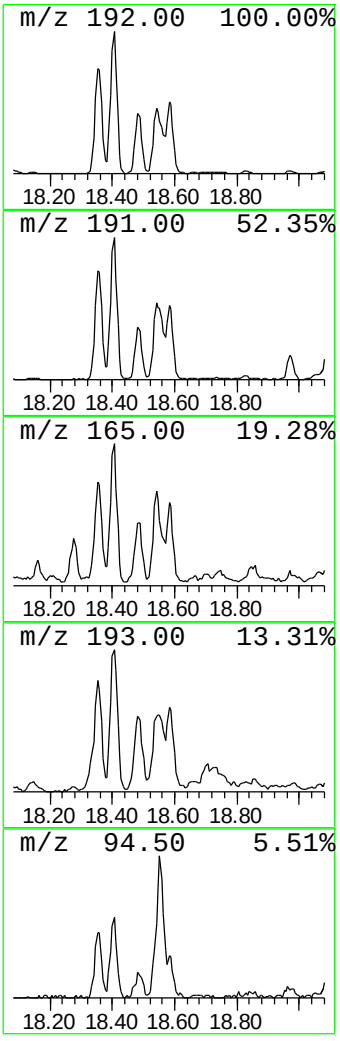
Peak Number 12 1H-Cyclopropa[l]phenanthren... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.58	8.90 ng	156813	Phenanthrene-d10	17.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	87
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	87
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	87
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	86
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	86





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Sample : G4683-09
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : S21-15

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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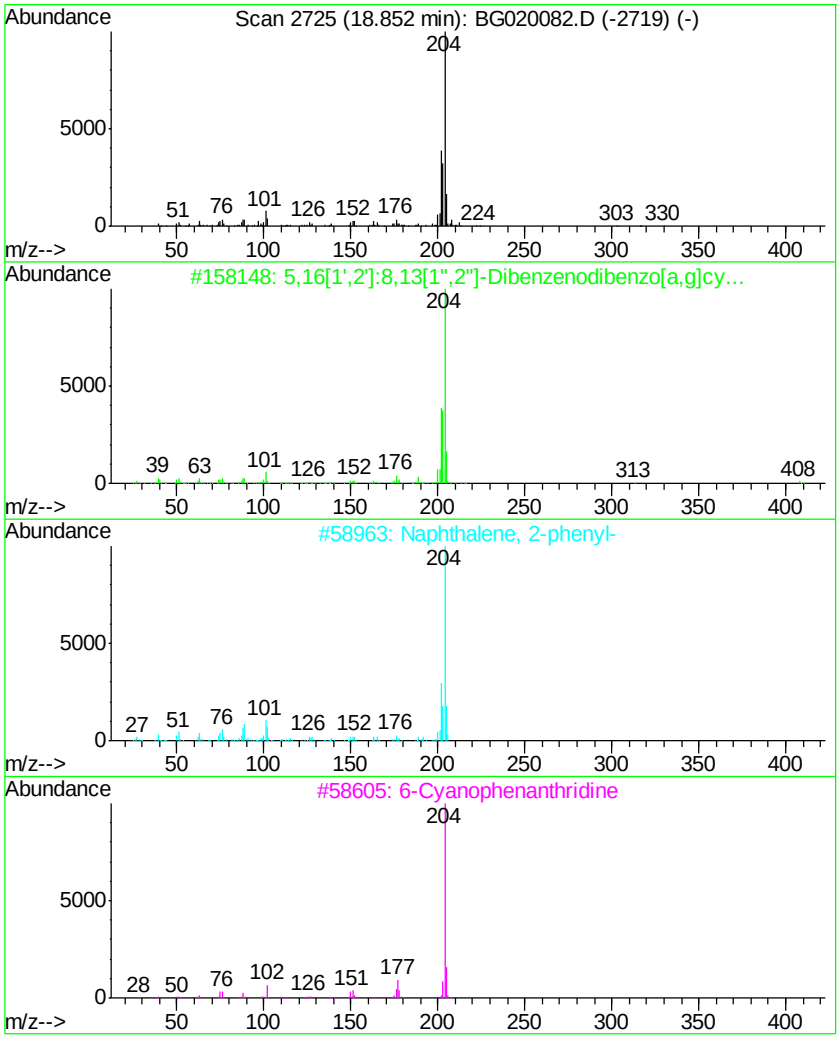
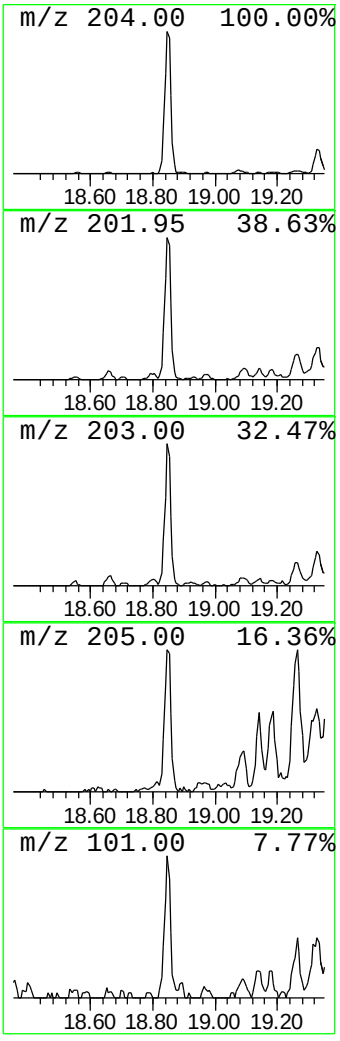
Peak Number 13 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.85	12.89 ng	227031	Phenanthrene-d10	17.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	91
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	64
3	6-Cyanophenanthridine	204	C14H8N2	002176-28-5	55
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	53
5	2-Phenylnaphthalene	204	C16H12	035465-71-5	52





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Sample : G4683-09
Misc :
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Instrument : BNA_G
ClientSampleId : S21-15

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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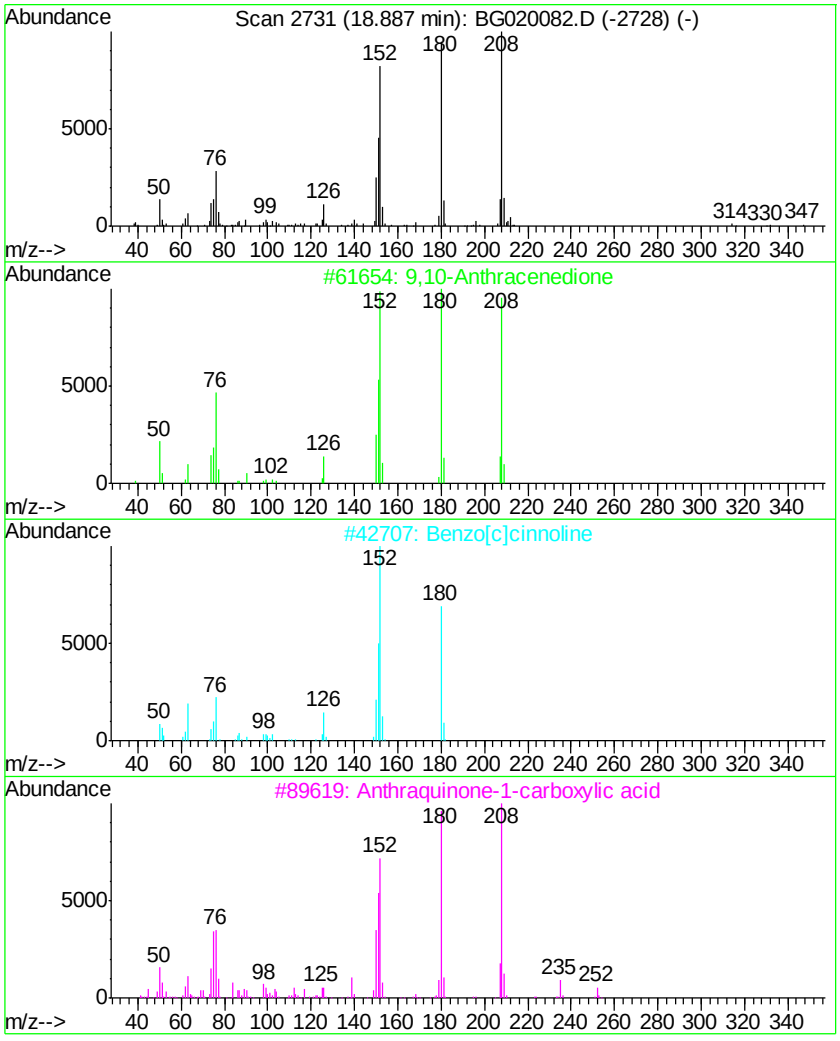
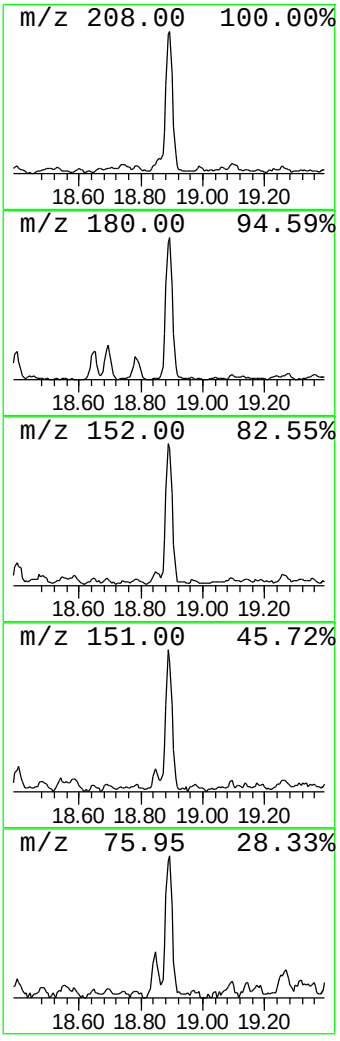
Peak Number 14 9,10-Anthracenedione Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.89	10.99 ng	193517	Phenanthrene-d10	17.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	96
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	83
3	Anthraquinone-1-carboxylic acid	252	C15H8O4	000602-69-7	72
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	70
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60





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ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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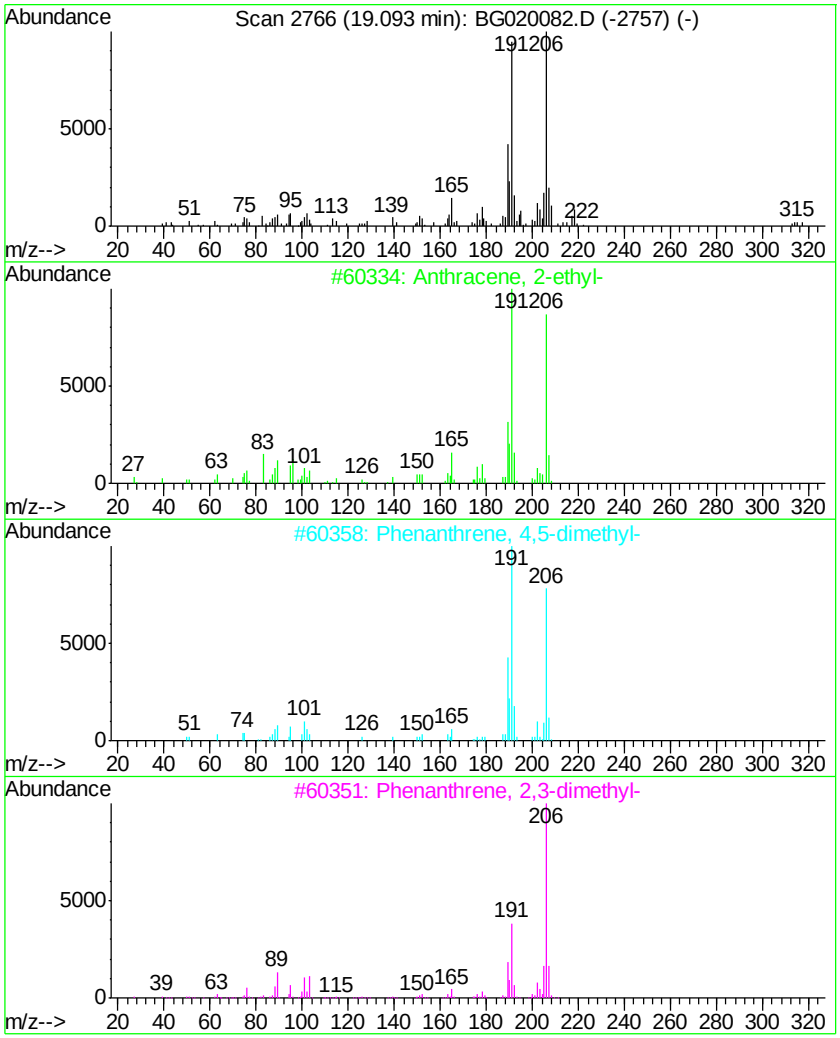
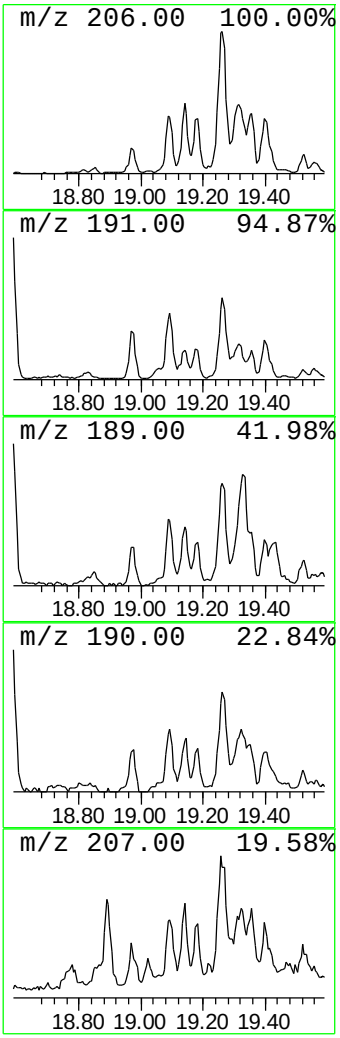
Peak Number 15 Anthracene, 2-ethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.09	7.08 ng	124648	Phenanthrene-d10	17.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	93
2	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
4	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	90
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	83





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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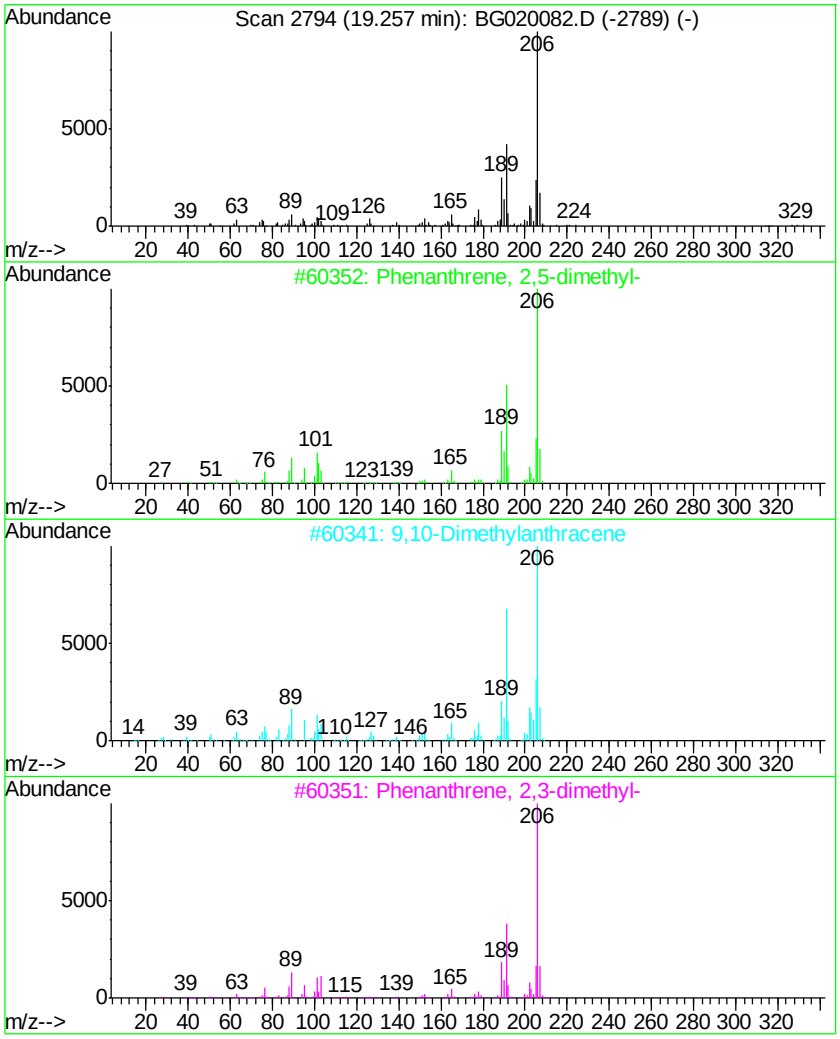
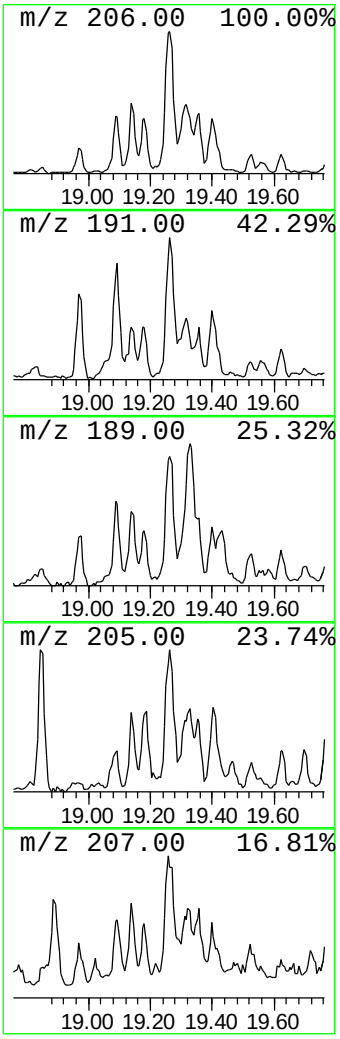
Peak Number 16 Phenanthrene, 2,5-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.26	13.42 ng	236366	Phenanthrene-d10	17.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	83
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	74
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	72





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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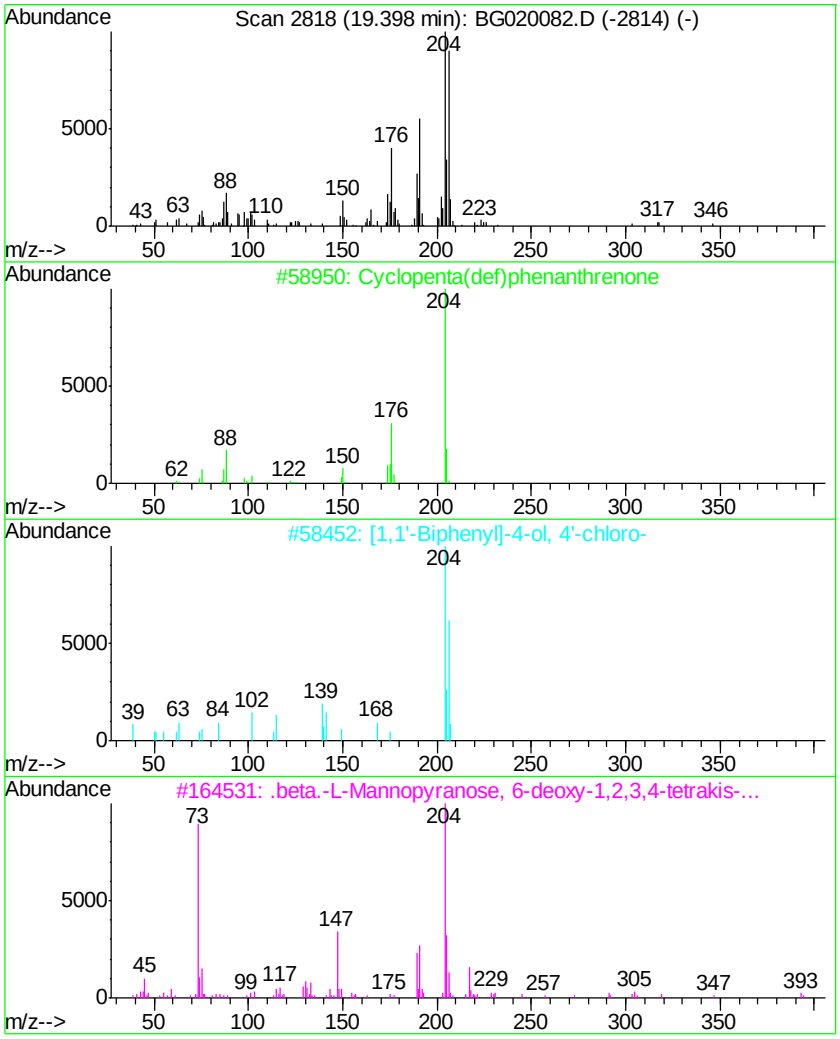
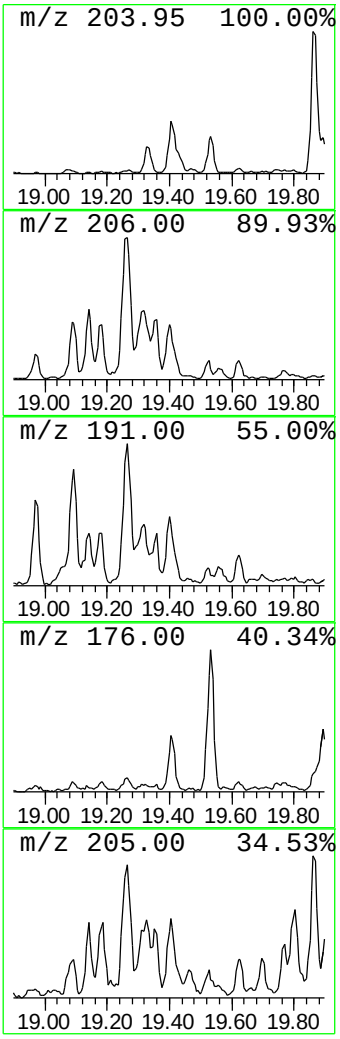
Peak Number 17 Cyclopenta(def)phenanthrenone Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.40	8.52 ng	150141	Phenanthrene-d10	17.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	90
2	[1,1'-Biphenyl]-4-ol, 4'-chloro-	204	C12H9ClO	028034-99-3	47
3	.beta.-L-Mannopyranose, 6-deoxy-...	452	C18H44O5Si4	055057-22-2	37
4	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	35
5	[14]Annulene, 1,6:8,13-bis(metha...	206	C16H14	085385-68-8	35





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

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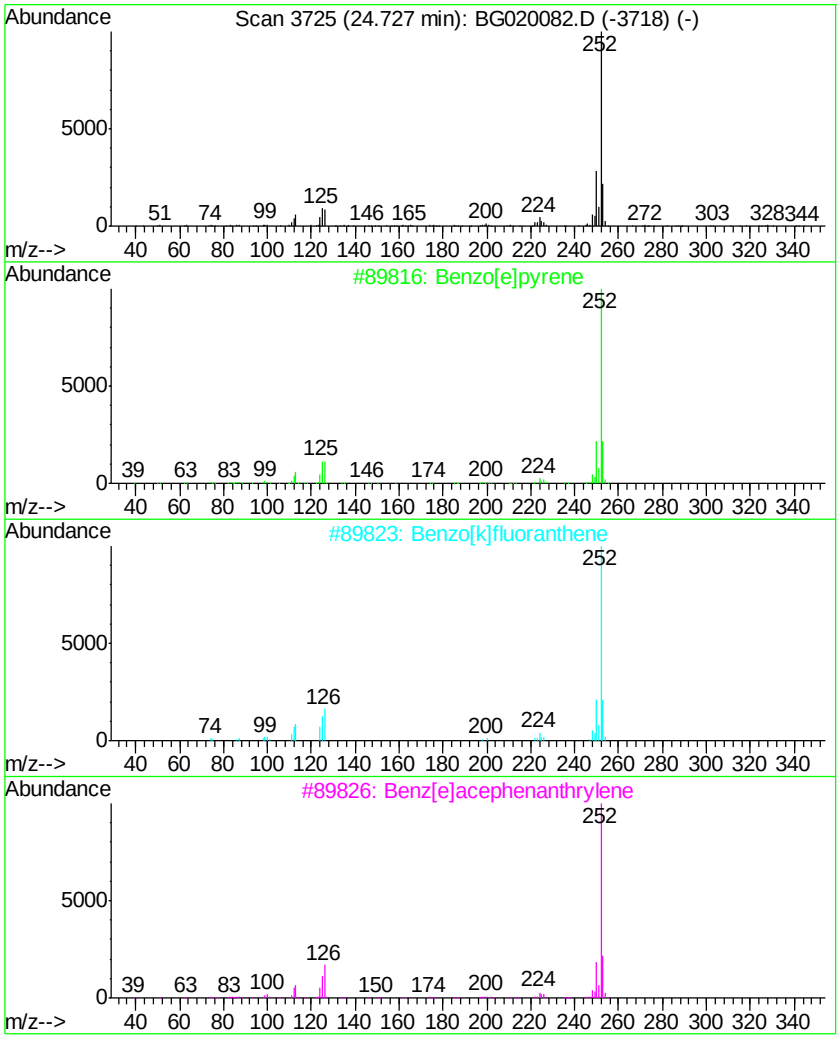
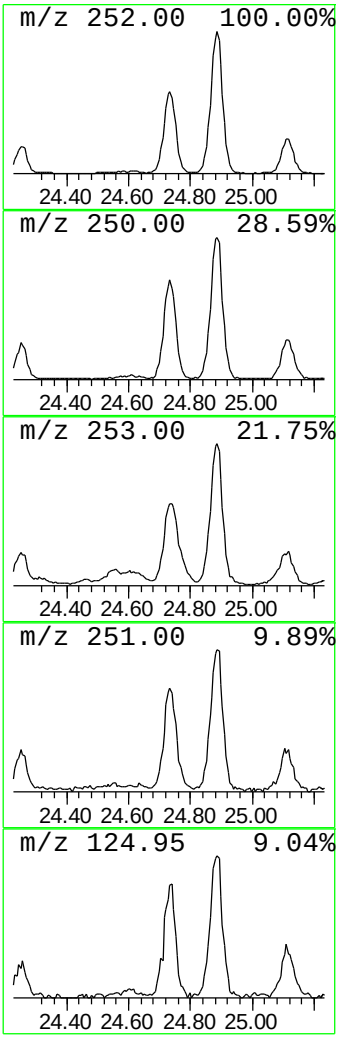
Peak Number 19 Benzo[e]pyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.73	25.34 ng	572324	Perylene-d12	25.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	96
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Benzo[a]pyrene	252	C20H12	000050-32-8	93
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121115\
Data File : BG020082.D
Acq On : 10 Dec 2015 19:15
Operator : UM/SJ
Sample : G4683-09
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : S21-15

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG120215.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...	2.99	405.4	ng	2347960	1	8.11	115836	20.0
2-Pentanone, 4-hy...	5.19	23.6	ng	136395	1	8.11	115836	20.0
unknown7.64	7.64	128.7	ng	745352	1	8.11	115836	20.0
9H-Fluoren-9-one	17.13	6.6	ng	115468	4	17.48	352254	20.0
Anthracene, 1,2,3...	17.23	8.1	ng	142306	4	17.48	352254	20.0
Dibenzothiophene	17.30	8.7	ng	153175	4	17.48	352254	20.0
Phenanthrene, 1-m...	18.35	25.3	ng	446267	4	17.48	352254	20.0
4H-Cyclopenta[def...	18.55	33.2	ng	584063	4	17.48	352254	20.0
1H-Cyclopropa[l]p...	18.58	8.9	ng	156813	4	17.48	352254	20.0
5,16[1',2']:8,13[...	18.85	12.9	ng	227031	4	17.48	352254	20.0
9,10-Anthracenedione	18.89	11.0	ng	193517	4	17.48	352254	20.0
Anthracene, 2-ethyl-	19.09	7.1	ng	124648	4	17.48	352254	20.0
Phenanthrene, 2,5...	19.26	13.4	ng	236366	4	17.48	352254	20.0
Cyclopenta(def)ph...	19.40	8.5	ng	150141	4	17.48	352254	20.0
Benzo[e]pyrene	24.73	25.3	ng	572324	6	25.04	451688	20.0