LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG112015\
Data File : BG019738.D
Acq On : 21 Nov 2015 3:12
Operator : UM/NP
Sample : G4428-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC7B6

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-BG111615.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	3.038	28	34	43	rBV	86304	197105	17.92%	1.872%
2	3.120	43	48	63	rVB	355350	568872	51.71%	5.404%
3	3.402	93	96	100	rBV2	2901	4037	0.37%	0.038%
4	3.855	170	173	178	rVB2	1684	2185	0.20%	0.021%
5	3.961	186	191	196	rBV2	9486	14546	1.32%	0.138%
6	4.037	199	204	208	rBV2	1790	3042	0.28%	0.029%
7	4.190	227	230	236	rBV4	4231	6391	0.58%	0.061%
8	4.748	322	325	333	rVB2	3388	5203	0.47%	0.049%
9	5.153	390	394	399	rVB4	3659	5793	0.53%	0.055%
10	5.241	406	409	413	rVB3	1864	1975	0.18%	0.019%
11	6.622	640	644	648	rVB3	1360	2078	0.19%	0.020%
12	7.263	747	753	762	rVV	59748	100066	9.10%	0.950%
13	7.427	775	781	787	rBV	48269	75484	6.86%	0.717%
14	7.639	811	817	825	rVB	57171	93386	8.49%	0.887%
15	8.115	891	898	906	rBV	93279	155484	14.13%	1.477%
16	8.820	1013	1018	1025	rBV2	40325	67962	6.18%	0.646%
17	9.290	1090	1098	1106	rBV2	61090	105602	9.60%	1.003%
18	9.672	1159	1163	1166	rBV	1259	2183	0.20%	0.021%
19	10.018	1216	1222	1229	rVB	51825	92945	8.45%	0.883%
20	10.559	1307	1314	1323	rBV2	76512	130277	11.84%	1.237%
21	10.947	1372	1380	1387	rBV	128957	224791	20.43%	2.135%
22	11.076	1396	1402	1411	rBV2	57776	100657	9.15%	0.956%
23	12.515	1644	1647	1652	rVB	1347	2159	0.20%	0.021%
24	12.586	1656	1659	1665	rVB4	1309	2735	0.25%	0.026%
25	12.809	1693	1697	1702	rBV2	1839	3284	0.30%	0.031%
26	13.103	1745	1747	1753	rVB2	2135	2917	0.27%	0.028%
27	13.355	1785	1790	1793	rBV3	4447	6089	0.55%	0.058%
28	14.078	1908	1913	1919	rBV3	2324	3241	0.29%	0.031%
29	14.149	1919	1925	1929	rVV	169560	233343	21.21%	2.216%
30	14.196	1929	1933	1940	rVB	84553	116728	10.61%	1.109%
31	14.448	1970	1976	1983	rBV	143896	222574	20.23%	2.114%
32	14.625	2003	2006	2010	rVB2	6425	7795	0.71%	0.074%
33	14.760	2019	2029	2035	rVB2	225795	372773	33.88%	3.541%
34	14.818	2035	2039	2045	rVB2	8076	12250	1.11%	0.116%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG112015\
Data File : BG019738.D
Acq On : 21 Nov 2015 3:12
Operator : UM/NP
Sample : G4428-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC7B6

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-BG111615.M
Title : SVOA CALIBRATION

35	14.942	2053	2060	2068	rBV	70170	112711	10.24%	1.071%
36	15.089	2083	2085	2089	rVB4	3401	3973	0.36%	0.038%
37	15.153	2089	2096	2103	rBV3	11518	16909	1.54%	0.161%
38	15.236	2109	2110	2114	rVB3	2867	2341	0.21%	0.022%
39	15.418	2138	2141	2144	rBV3	2081	2156	0.20%	0.020%
40	15.529	2156	2160	2164	rBV3	5297	8982	0.82%	0.085%
41	15.571	2164	2167	2174	rVB2	12941	16844	1.53%	0.160%
42	15.635	2174	2178	2182	rBV2	1537	2333	0.21%	0.022%
43	15.700	2184	2189	2190	rBV3	1478	2092	0.19%	0.020%
44	15.741	2190	2196	2202	rBV	210567	308952	28.08%	2.935%
45	15.800	2202	2206	2211	rVB3	7398	12087	1.10%	0.115%
46	15.858	2211	2216	2222	rBV	69186	106140	9.65%	1.008%
47	15.976	2232	2236	2239	rVB5	5440	8529	0.78%	0.081%
48	16.011	2239	2242	2246	rBV3	1932	2375	0.22%	0.023%
49	16.082	2251	2254	2255	rBV2	3601	3956	0.36%	0.038%
50	16.123	2259	2261	2265	rVB4	1746	2003	0.18%	0.019%
51	16.193	2270	2273	2276	rBV2	2928	3460	0.31%	0.033%
52	16.234	2276	2280	2283	rBV3	5803	8700	0.79%	0.083%
53	16.328	2295	2296	2300	rVB2	3129	2084	0.19%	0.020%
54	16.434	2308	2314	2316	rBV4	13439	20093	1.83%	0.191%
55	16.558	2332	2335	2336	rBV2	2288	1960	0.18%	0.019%
56	16.610	2341	2344	2350	rVB5	3554	6532	0.59%	0.062%
57	16.699	2357	2359	2362	rVB3	2903	1907	0.17%	0.018%
58	16.898	2390	2393	2396	rBV5	2661	2986	0.27%	0.028%
59	16.945	2398	2401	2402	rVB3	2920	2879	0.26%	0.027%
60	17.022	2408	2414	2418	rBV2	15130	25099	2.28%	0.238%
61	17.145	2431	2435	2442	rVB	25167	38822	3.53%	0.369%
62	17.222	2444	2448	2455	rVV4	16318	31370	2.85%	0.298%
63	17.274	2455	2457	2460	rVV2	7703	9444	0.86%	0.090%
64	17.316	2460	2464	2472	rVB	17786	27368	2.49%	0.260%
65	17.368	2472	2473	2476	rBV3	2635	2268	0.21%	0.022%
66	17.498	2488	2495	2498	rBV	368227	554624	50.41%	5.268%
67	17.539	2498	2502	2507	rVB	311288	428285	38.93%	4.068%
68	17.592	2507	2511	2516	rBV	236525	347827	31.61%	3.304%
69	17.762	2536	2540	2541	rBV3	3461	4031	0.37%	0.038%
70	17.891	2559	2562	2569	rVB2	22695	30701	2.79%	0.292%
71	17.962	2571	2574	2577	rVB2	10483	11613	1.06%	0.110%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG112015\
Data File : BG019738.D
Acq On : 21 Nov 2015 3:12
Operator : UM/NP
Sample : G4428-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC7B6

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-BG111615.M
Title : SVOA CALIBRATION

72	18.009	2578	2582	2585	rBV4	7409	8135	0.74%	0.077%
73	18.073	2590	2593	2598	rVB4	13844	20791	1.89%	0.197%
74	18.167	2607	2609	2614	rBV5	3733	5434	0.49%	0.052%
75	18.297	2626	2631	2633	rBV5	7069	10595	0.96%	0.101%
76	18.367	2638	2643	2647	rBV2	60286	94986	8.63%	0.902%
77	18.414	2647	2651	2657	rVB	71188	109853	9.98%	1.043%
78	18.555	2671	2675	2679	rBV2	48853	92856	8.44%	0.882%
79	18.596	2680	2682	2687	rVB	46312	54284	4.93%	0.516%
80	18.702	2698	2700	2701	rBV2	5613	4189	0.38%	0.040%
81	18.861	2723	2727	2730	rBV	40459	55481	5.04%	0.527%
82	18.902	2730	2734	2740	rVB2	62549	91987	8.36%	0.874%
83	19.102	2766	2768	2772	rVB4	16548	17162	1.56%	0.163%
84	19.272	2793	2797	2802	rBV4	39379	62669	5.70%	0.595%
85	19.419	2817	2822	2827	rBV2	45401	77437	7.04%	0.736%
86	19.536	2837	2842	2848	rVB	416184	580144	52.73%	5.511%
87	19.630	2856	2858	2864	rVB5	19230	22418	2.04%	0.213%
88	19.730	2871	2875	2878	rBV2	15239	24260	2.21%	0.230%
89	19.871	2893	2899	2902	rBV2	399237	658381	59.84%	6.254%
90	19.901	2902	2904	2910	rVV	388833	445117	40.46%	4.228%
91	19.965	2912	2915	2920	rVB2	30077	41797	3.80%	0.397%
92	20.077	2930	2934	2939	rVB	23115	33135	3.01%	0.315%
93	20.682	3034	3037	3041	rBV2	27636	35884	3.26%	0.341%
94	21.146	3113	3116	3123	rVB	65901	105682	9.61%	1.004%
95	21.381	3153	3156	3160	rVB2	44619	56227	5.11%	0.534%
96	21.763	3213	3221	3226	rBV2	539056	1100204	100.00%	10.450%
97	21.810	3226	3229	3236	rVB	157286	258009	23.45%	2.451%
98	24.008	3597	3603	3610	rBV3	80057	244662	22.24%	2.324%
99	24.830	3737	3743	3750	rBV	136192	319359	29.03%	3.033%
100	25.059	3773	3782	3791	rBV2	277213	776239	70.55%	7.373%

Sum of corrected areas: 10527765

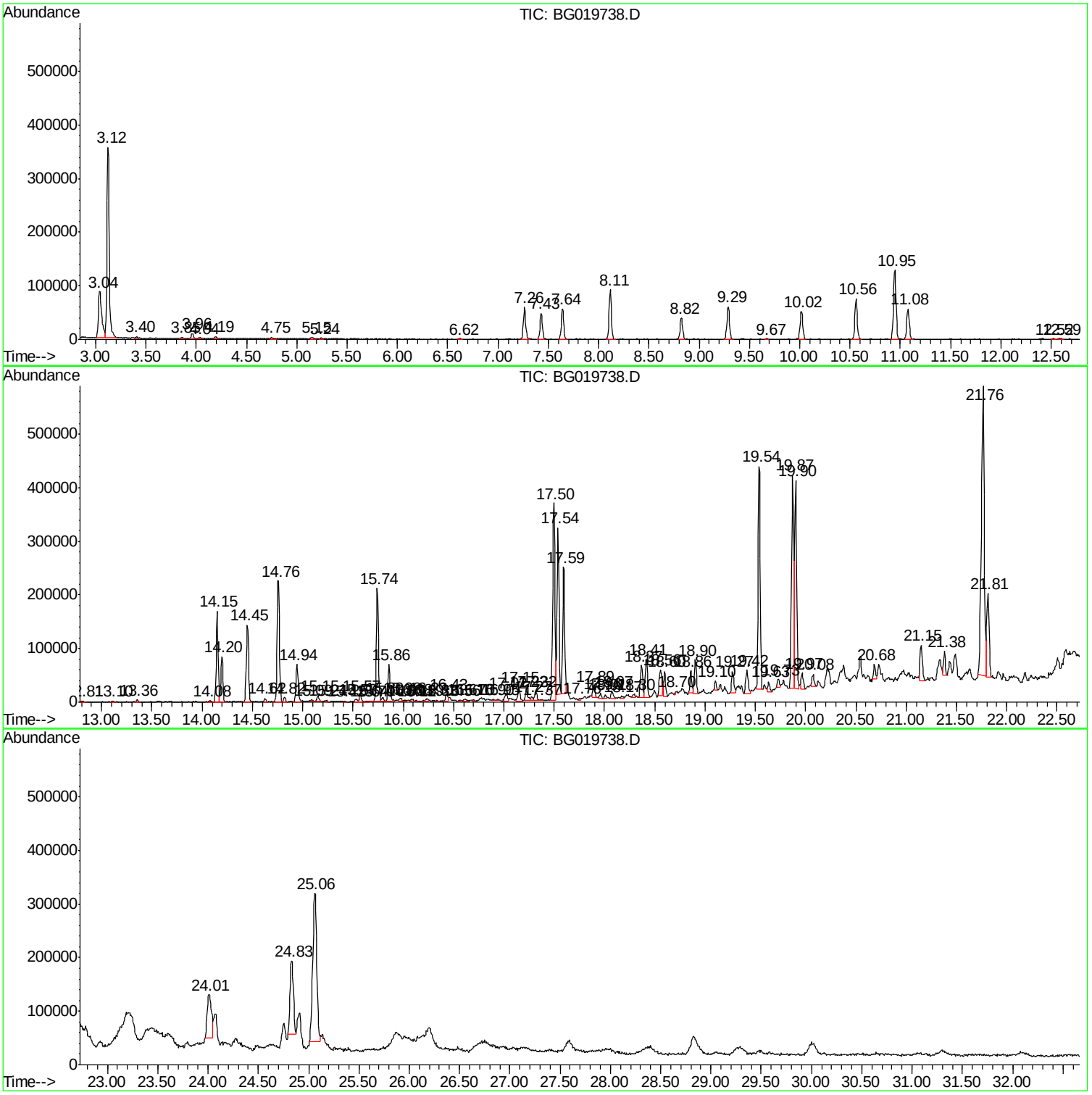
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA G\DATA\BG112015\
Data File : BG019738.D
Acq On : 21 Nov 2015 3:12
Operator : UM/NP
Sample : G4428-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC7B6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111615.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA G\DATA\BG112015\
Data File : BG019738.D
Acq On : 21 Nov 2015 3:12
Operator : UM/NP
Sample : G4428-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC7B6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111615.M
Quant Title : SVOA CALIBRATION

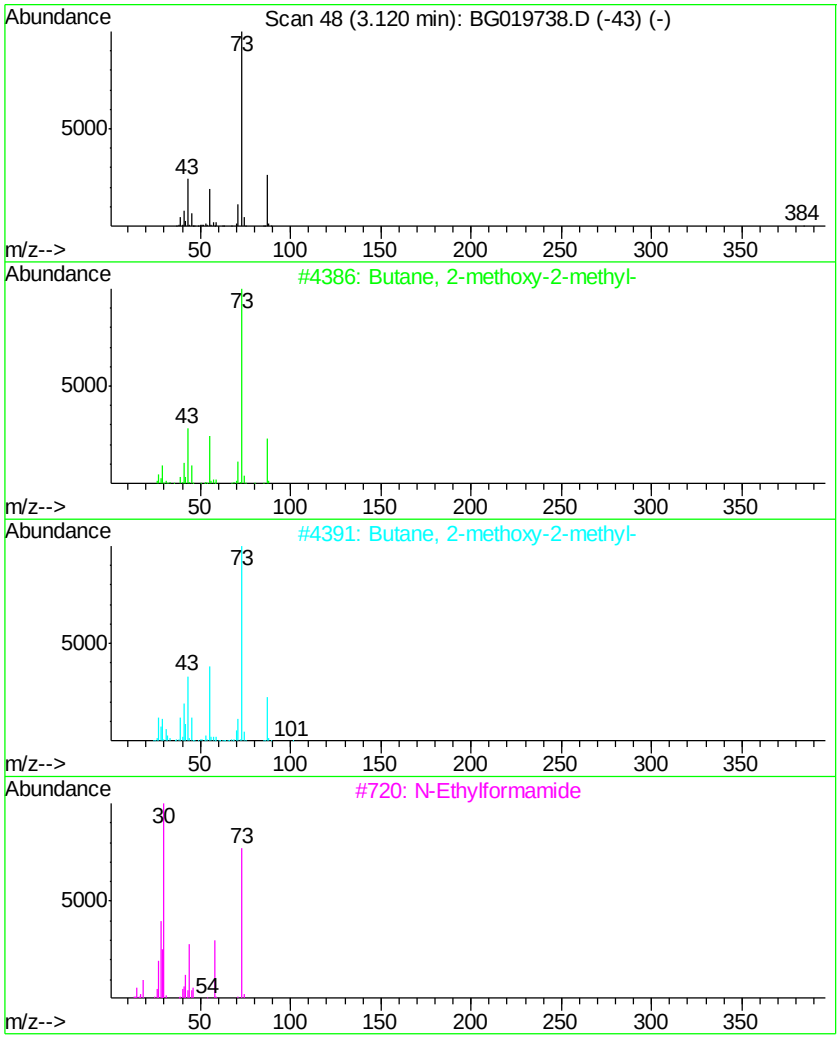
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

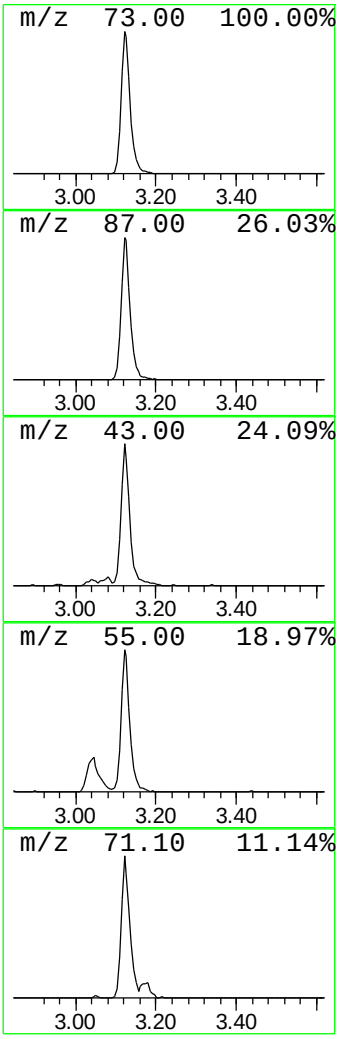
****

Peak Number 2 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.12	73.17 ng/ul	568872	1,4-Dichlorobenzene-d4	8.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	72
2	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	40
3	N-Ethylformamide	73	C3H7NO	000627-45-2	9
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	9
5	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	7





Data Path : Z:\HPCHEM1\BNA G\DATA\BG112015\
Data File : BG019738.D
Acq On : 21 Nov 2015 3:12
Operator : UM/NP
Sample : G4428-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC7B6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111615.M
Quant Title : SVOA CALIBRATION

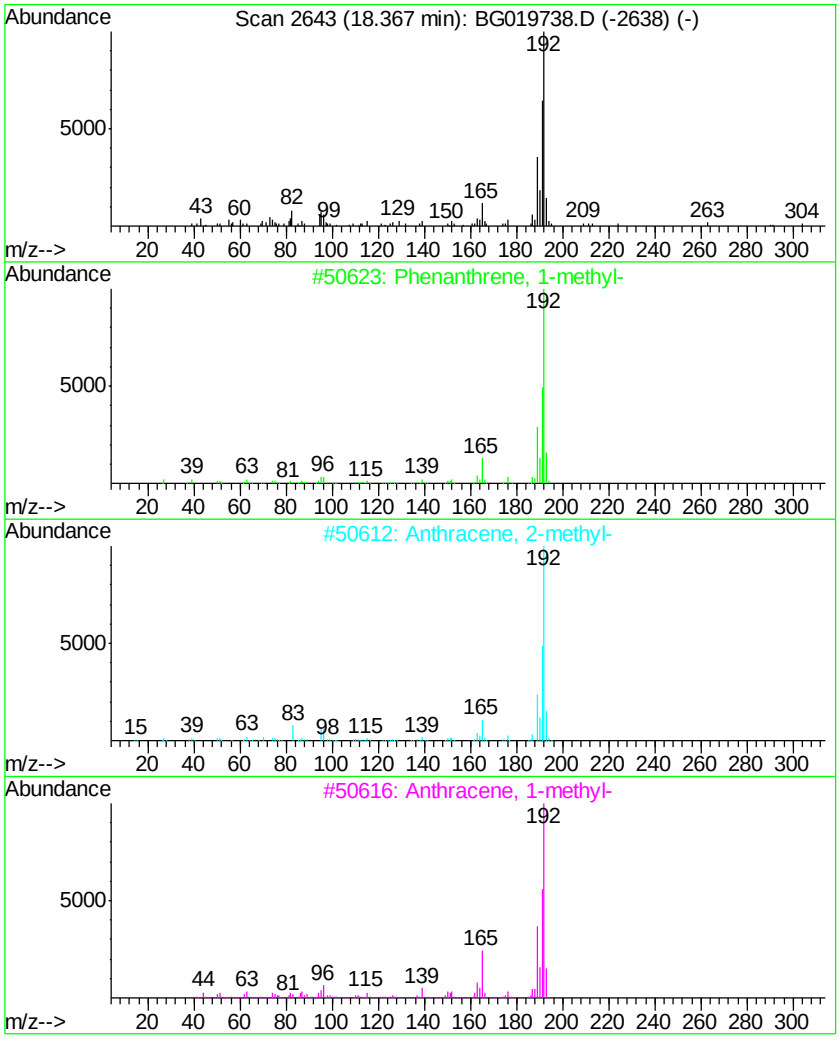
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

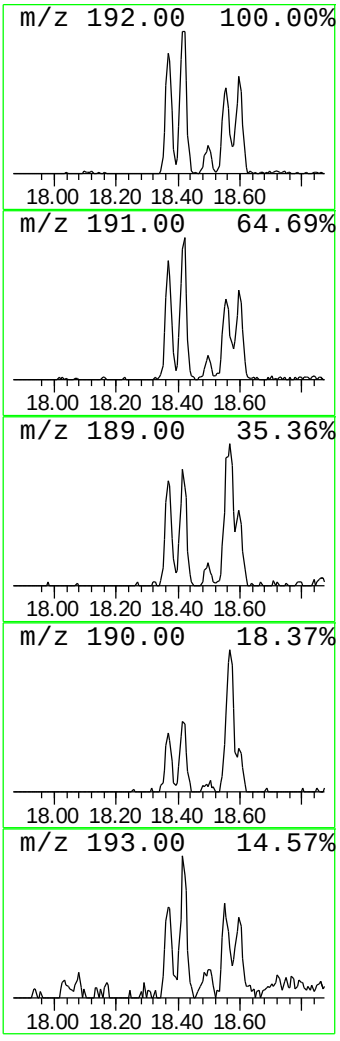
****

Peak Number 3 Phenanthrene, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.37	3.43 ng/ul	94986	Phenanthrene-d10	17.50

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





Data Path : Z:\HPCHEM1\BNA G\DATA\BG112015\
Data File : BG019738.D
Acq On : 21 Nov 2015 3:12
Operator : UM/NP
Sample : G4428-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC7B6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111615.M
Quant Title : SVOA CALIBRATION

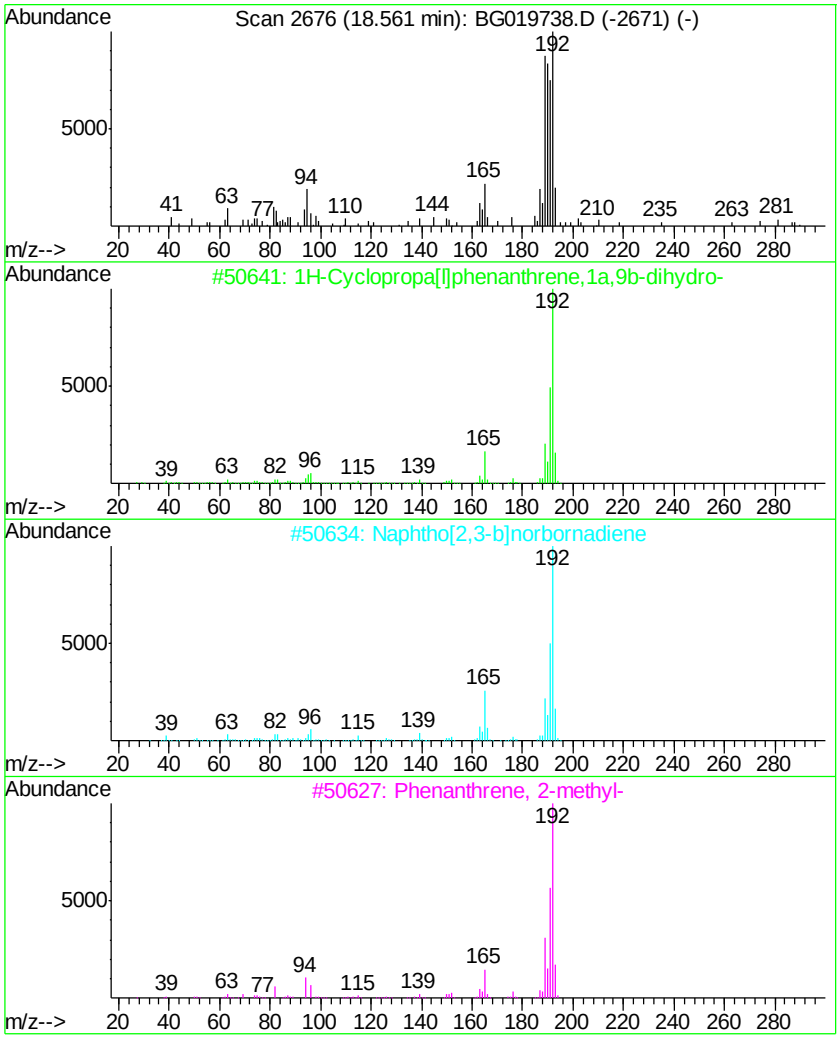
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

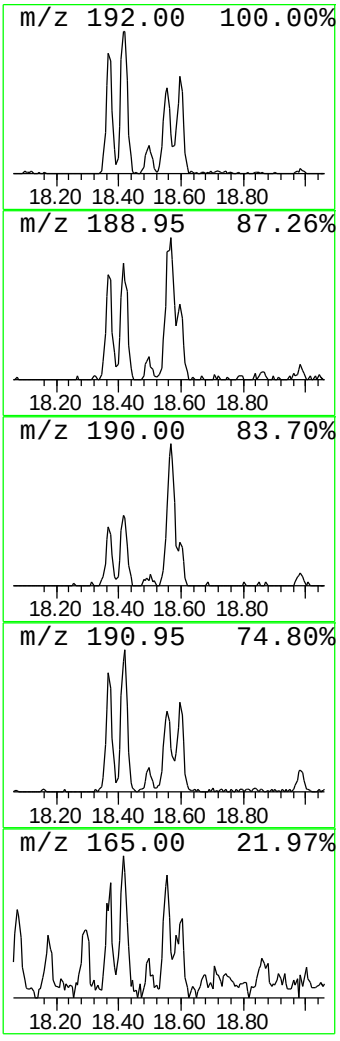
****

Peak Number 5 1H-Cyclopropa[l]phenanthren... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.56	3.35 ng/ul	92856	Phenanthrene-d10	17.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	70
2	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	70
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	70
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	64
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	64





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG112015\
Data File : BG019738.D
Acq On : 21 Nov 2015 3:12
Operator : UM/NP
Sample : G4428-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC7B6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111615.M
Quant Title : SVOA CALIBRATION

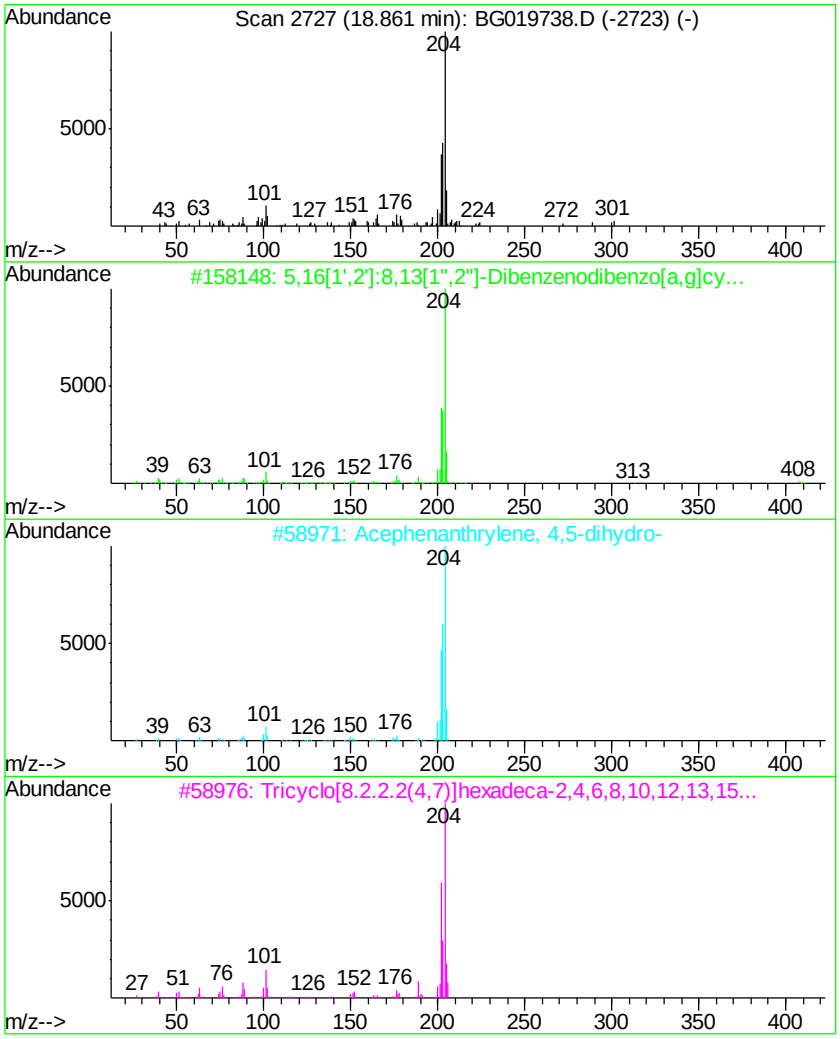
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

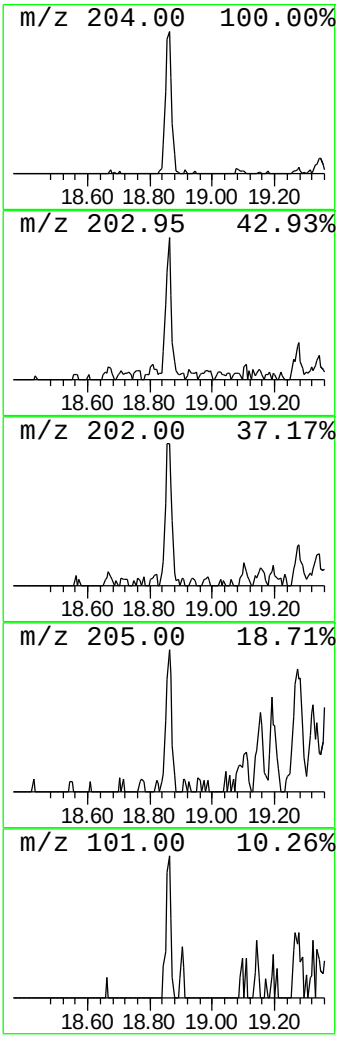
****

Peak Number 6 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.86	2.00 ng/ul	55481	Phenanthrene-d10	17.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
2	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	74
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	64
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	58
5	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	55





Data Path : Z:\HPCHEM1\BNA G\DATA\BG112015\
Data File : BG019738.D
Acq On : 21 Nov 2015 3:12
Operator : UM/NP
Sample : G4428-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC7B6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111615.M
Quant Title : SVOA CALIBRATION

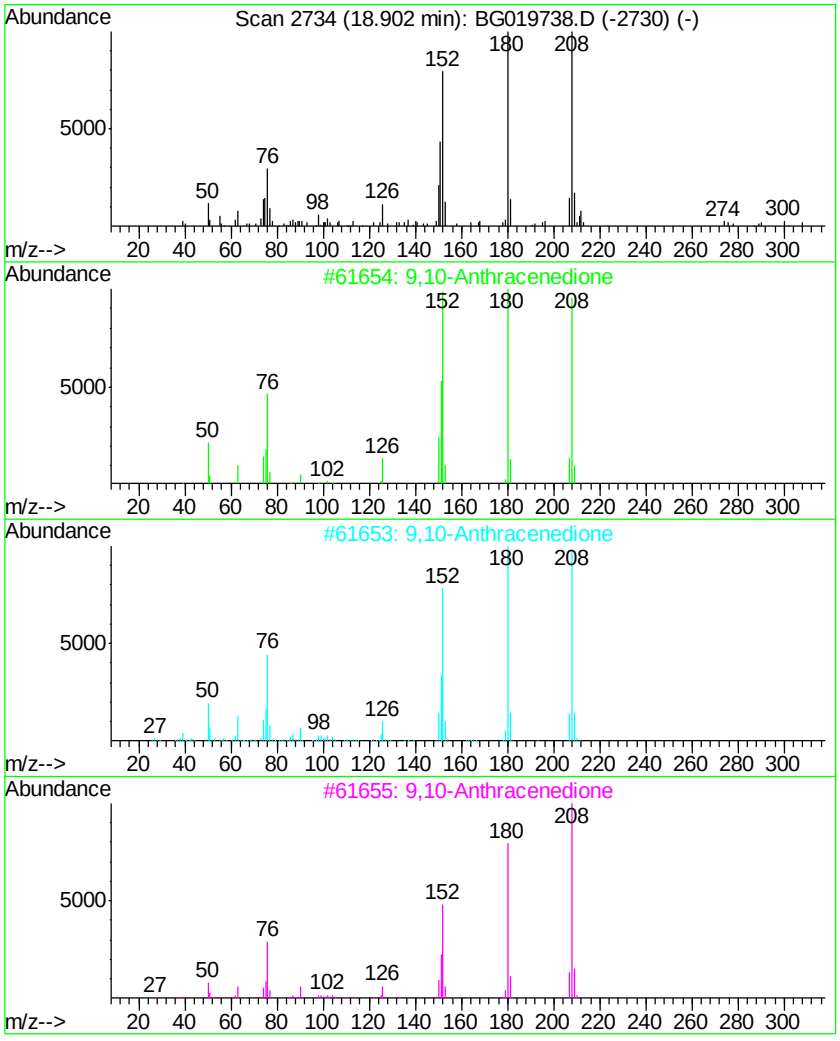
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

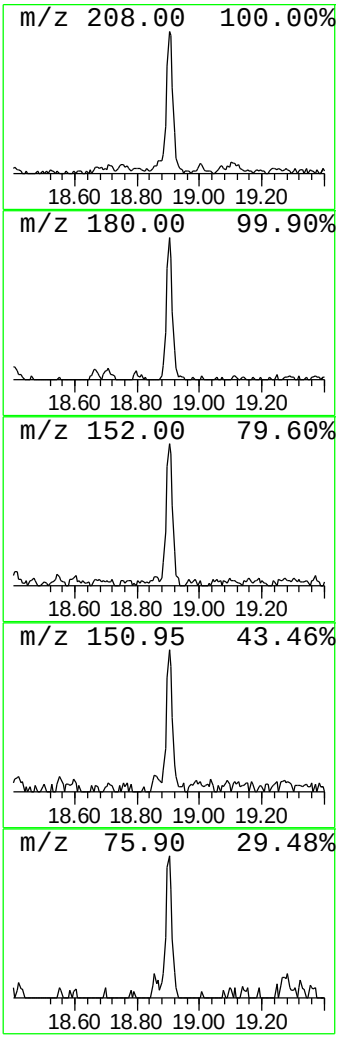
****

Peak Number 7 9,10-Anthracenedione Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.90	3.32 ng/ul	91987	Phenanthrene-d10	17.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	94
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	94
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	64
5	1,4-Anthracenedione	208	C14H8O2	000635-12-1	64





Data Path : Z:\HPCHEM1\BNA G\DATA\BG112015\
Data File : BG019738.D
Acq On : 21 Nov 2015 3:12
Operator : UM/NP
Sample : G4428-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC7B6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111615.M
Quant Title : SVOA CALIBRATION

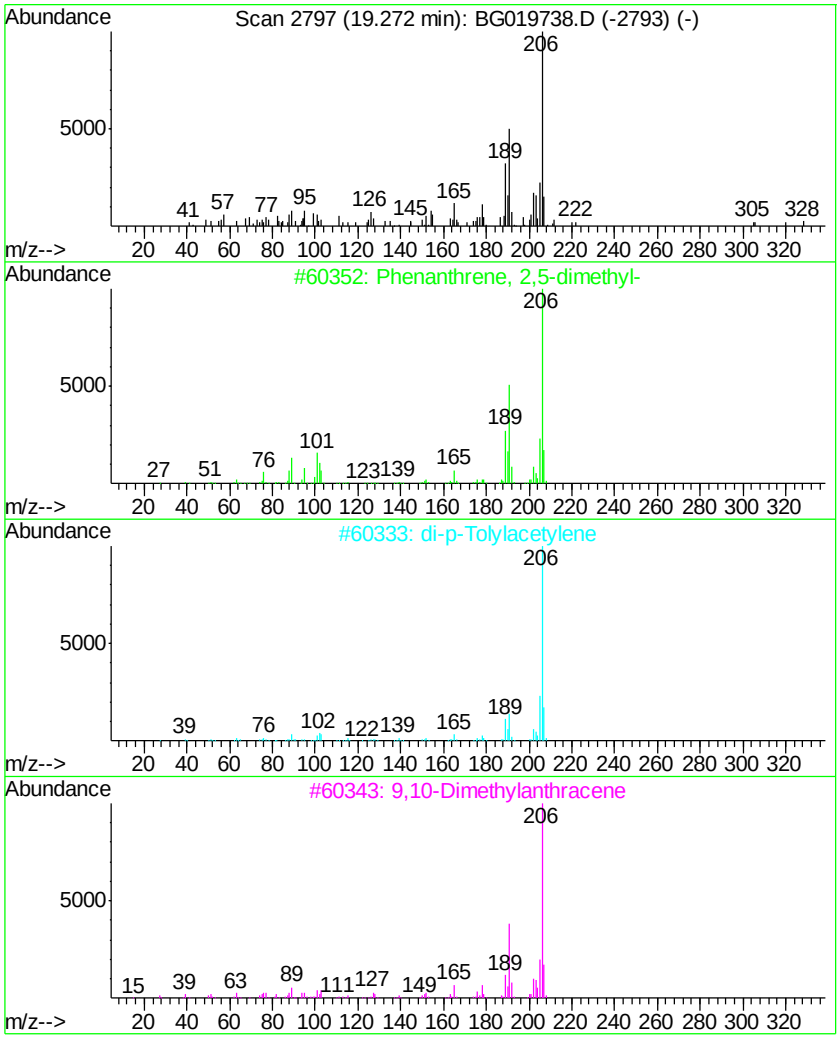
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

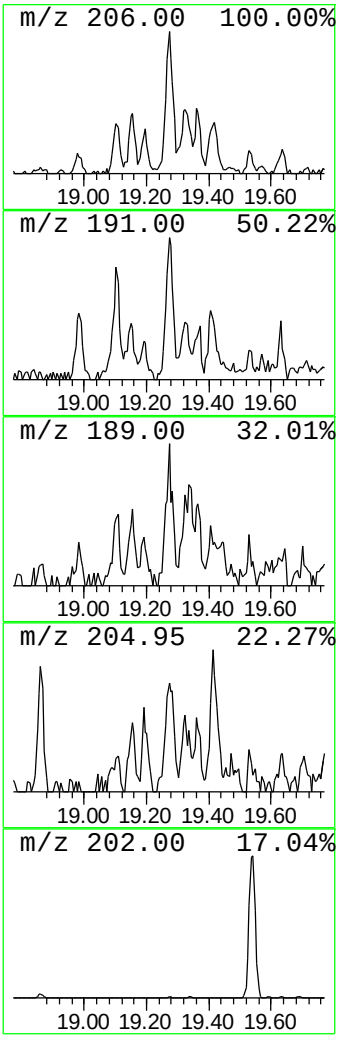
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.27	2.26 ng/ul	62669	Phenanthrene-d10	17.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
4	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	90
5	di-p-Tolylacetylene	206	C16H14	002789-88-0	90





Data Path : Z:\HPCHEM1\BNA G\DATA\BG112015\
Data File : BG019738.D
Acq On : 21 Nov 2015 3:12
Operator : UM/NP
Sample : G4428-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC7B6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111615.M
Quant Title : SVOA CALIBRATION

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

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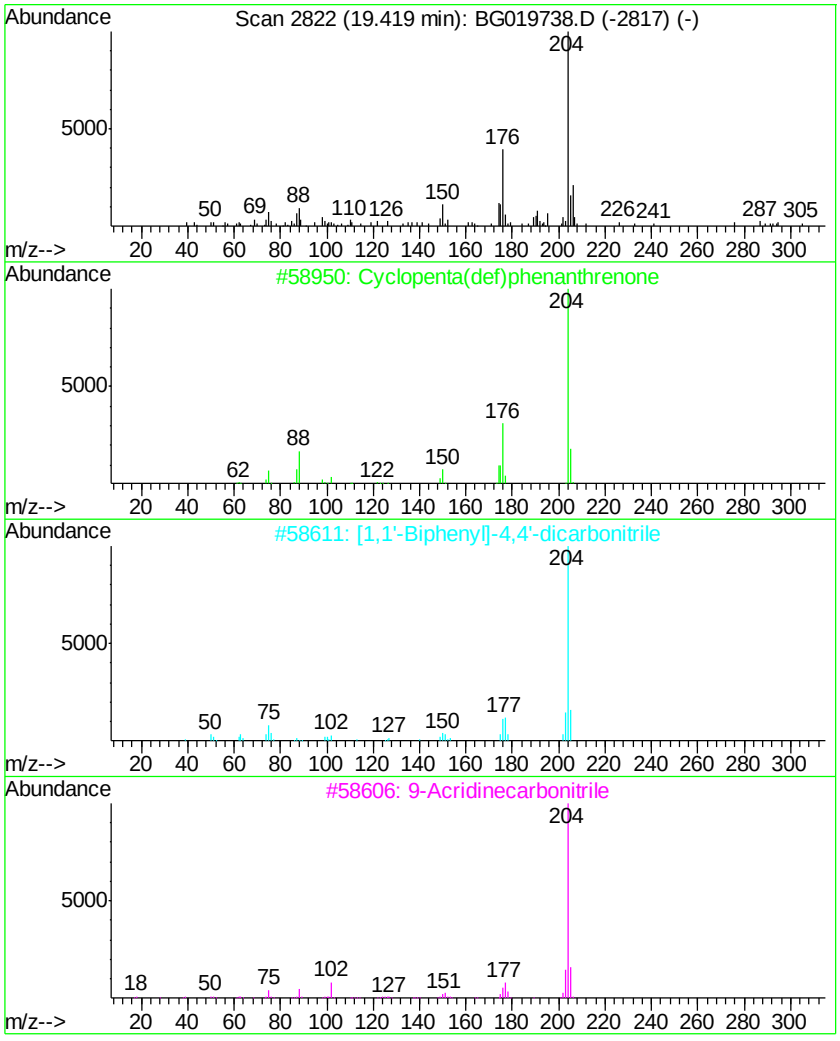
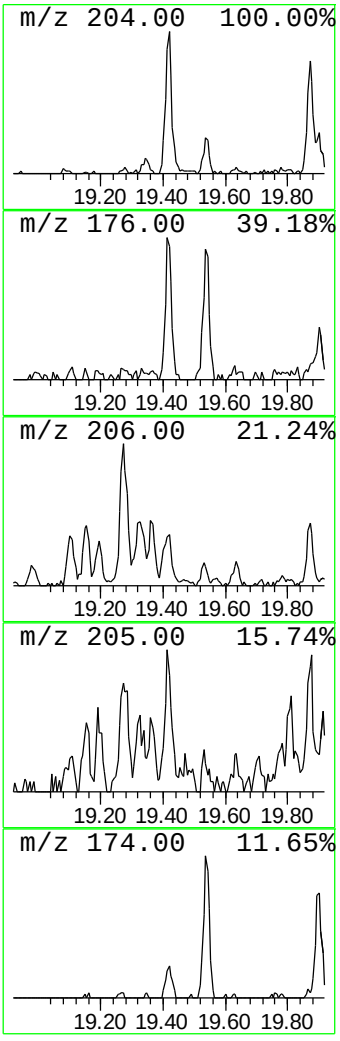
Peak Number 9 Cyclopenta(def)phenanthrenone Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.42	2.79 ng/ul	77437	Phenanthrene-d10	17.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	90
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	50
3	9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	50
4	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	50
5	[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	46





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG112015\
Data File : BG019738.D
Acq On : 21 Nov 2015 3:12
Operator : UM/NP
Sample : G4428-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC7B6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111615.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
Butane, 2-methoxy...	3.12	73.2	ng/ul	568872	1	8.11	155484	20.0
Phenanthrene, 1-m...	18.37	3.4	ng/ul	94986	4	17.50	554624	20.0
1H-Cyclopropa[l]p...	18.56	3.4	ng/ul	92856	4	17.50	554624	20.0
5,16[1',2']:8,13[...	18.86	2.0	ng/ul	55481	4	17.50	554624	20.0
9,10-Anthracenedione	18.90	3.3	ng/ul	91987	4	17.50	554624	20.0
Phenanthrene, 2,5...	19.27	2.3	ng/ul	62669	4	17.50	554624	20.0
Cyclopenta(def)ph...	19.42	2.8	ng/ul	77437	4	17.50	554624	20.0