LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121815\
Data File : BG020258.D
Acq On : 17 Dec 2015 23:08
Operator : UM/SJ
Sample : G4767-16DL 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N38DL

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-BG121415.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	3.117	43	47	57	rVB2	15882	28524	4.06%	0.420%
2	3.193	57	60	64	rVB4	4906	5751	0.82%	0.085%
3	7.242	743	749	759	rVB	21675	36979	5.26%	0.544%
4	7.412	772	778	784	rBV	17476	29450	4.19%	0.434%
5	7.624	807	814	820	rBV	22249	36379	5.17%	0.536%
6	8.094	888	894	902	rBB	55660	91633	13.03%	1.349%
7	8.634	981	986	993	rBB	2297	3522	0.50%	0.052%
8	8.793	1007	1013	1021	rBB	30321	50570	7.19%	0.745%
9	9.257	1086	1092	1100	rVB	24024	40756	5.80%	0.600%
10	9.986	1210	1216	1223	rBV2	20423	34888	4.96%	0.514%
11	10.526	1299	1308	1316	rBB	31836	53333	7.58%	0.785%
12	10.908	1366	1373	1378	rBV	84604	153560	21.84%	2.261%
13	10.961	1378	1382	1389	rVV	74479	127616	18.15%	1.879%
14	11.043	1390	1396	1407	rVB2	31773	58041	8.25%	0.855%
15	12.559	1644	1654	1663	rBB	47662	76386	10.86%	1.125%
16	12.776	1684	1691	1697	rBB	22993	36608	5.21%	0.539%
17	13.564	1815	1825	1832	rBB	19671	29453	4.19%	0.434%
18	13.758	1853	1858	1867	rBB2	4883	8795	1.25%	0.129%
19	13.881	1876	1879	1880	rBV2	5640	5279	0.75%	0.078%
20	14.045	1902	1907	1912	rBV2	10864	17153	2.44%	0.253%
21	14.122	1912	1920	1924	rVV	80172	121427	17.27%	1.788%
22	14.169	1924	1928	1934	rVB	32820	43984	6.25%	0.648%
23	14.286	1943	1948	1952	rBV	3671	5968	0.85%	0.088%
24	14.422	1963	1971	1981	rBB	79356	129375	18.40%	1.905%
25	14.727	2013	2023	2029	rBV2	160258	263594	37.48%	3.881%
26	14.792	2029	2034	2040	rVB	127758	196601	27.96%	2.894%
27	14.856	2040	2045	2050	rBV2	6156	9435	1.34%	0.139%
28	14.909	2050	2054	2064	rVB2	26386	45627	6.49%	0.672%
29	15.033	2071	2075	2080	rVB2	3282	4865	0.69%	0.072%
30	15.121	2084	2090	2098	rVB	92977	139445	19.83%	2.053%
31	15.191	2098	2102	2107	rBV	1901	3073	0.44%	0.045%
32	15.503	2150	2155	2159	rBV	2110	3217	0.46%	0.047%
33	15.550	2159	2163	2168	rVB3	3873	5156	0.73%	0.076%
34	15.714	2182	2191	2196	rBV	115441	169443	24.09%	2.495%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121815\
Data File : BG020258.D
Acq On : 17 Dec 2015 23:08
Operator : UM/SJ
Sample : G4767-16DL 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N38DL

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-BG121415.M
Title : SVOA CALIBRATION

35	15.767	2196	2200	2206	rVV	118114	184558	26.24%	2.717%
36	15.826	2206	2210	2214	rVV2	22823	33271	4.73%	0.490%
37	15.861	2214	2216	2218	rVV2	5374	5685	0.81%	0.084%
38	15.896	2219	2222	2224	rVV2	7212	9342	1.33%	0.138%
39	15.932	2224	2228	2234	rVV3	13521	23043	3.28%	0.339%
40	15.979	2234	2236	2239	rVV2	2580	3493	0.50%	0.051%
41	16.020	2239	2243	2246	rVV3	5190	8652	1.23%	0.127%
42	16.061	2246	2250	2256	rVB	15311	21663	3.08%	0.319%
43	16.208	2265	2275	2284	rBV	15975	34189	4.86%	0.503%
44	16.302	2284	2291	2298	rVB2	2575	4265	0.61%	0.063%
45	16.431	2306	2313	2322	rBV3	13685	26058	3.71%	0.384%
46	16.566	2329	2336	2339	rBB	6072	8669	1.23%	0.128%
47	16.772	2360	2371	2376	rBV2	13009	24125	3.43%	0.355%
48	16.819	2376	2379	2384	rVB3	3460	5523	0.79%	0.081%
49	16.919	2393	2396	2402	rVB3	4535	6358	0.90%	0.094%
50	16.995	2402	2409	2412	rBV3	3264	6321	0.90%	0.093%
51	17.042	2412	2417	2420	rVB4	3463	4946	0.70%	0.073%
52	17.118	2428	2430	2437	rVB2	4919	6874	0.98%	0.101%
53	17.195	2437	2443	2444	rBV	5929	6631	0.94%	0.098%
54	17.289	2451	2459	2467	rVB	30700	46072	6.55%	0.678%
55	17.471	2484	2490	2493	rBV	233012	361958	51.47%	5.329%
56	17.512	2493	2497	2502	rVB	481918	703274	100.00%	10.354%
57	17.571	2502	2507	2511	rBV	126087	180109	25.61%	2.652%
58	17.653	2517	2521	2528	rVB5	1831	3677	0.52%	0.054%
59	17.870	2553	2558	2567	rVB	26567	38554	5.48%	0.568%
60	17.982	2574	2577	2582	rBV	5490	7601	1.08%	0.112%
61	18.053	2585	2589	2593	rBV3	2203	3132	0.45%	0.046%
62	18.199	2608	2614	2619	rBV2	1862	3812	0.54%	0.056%
63	18.340	2634	2638	2643	rBV	27845	41562	5.91%	0.612%
64	18.393	2643	2647	2653	rVB	34926	48686	6.92%	0.717%
65	18.470	2655	2660	2666	rBV2	9096	14025	1.99%	0.206%
66	18.540	2666	2672	2676	rBV2	54373	90568	12.88%	1.333%
67	18.681	2693	2696	2701	rBV2	2308	3396	0.48%	0.050%
68	18.769	2707	2711	2718	rVB3	2655	4679	0.67%	0.069%
69	18.834	2718	2722	2727	rBV	22490	30416	4.32%	0.448%
70	18.881	2727	2730	2734	rVB3	4277	5271	0.75%	0.078%
71	19.087	2759	2765	2767	rBV2	2741	4127	0.59%	0.061%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121815\
Data File : BG020258.D
Acq On : 17 Dec 2015 23:08
Operator : UM/SJ
Sample : G4767-16DL 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N38DL

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-BG121415.M
Title : SVOA CALIBRATION

72	19.134	2769	2773	2776	rBV3	2461	3348	0.48%	0.049%
73	19.251	2787	2793	2799	rBV3	6067	11817	1.68%	0.174%
74	19.316	2799	2804	2808	rBV4	3457	6372	0.91%	0.094%
75	19.392	2812	2817	2820	rBV2	2342	3522	0.50%	0.052%
76	19.516	2832	2838	2845	rVV	309431	427752	60.82%	6.298%
77	19.762	2873	2880	2887	rVB2	8749	13685	1.95%	0.201%
78	19.850	2889	2895	2897	rVV2	218244	317323	45.12%	4.672%
79	19.880	2897	2900	2908	rVV	197439	274964	39.10%	4.048%
80	19.944	2908	2911	2919	rVB4	7591	11175	1.59%	0.165%
81	20.050	2926	2929	2934	rVB	9687	12366	1.76%	0.182%
82	20.197	2948	2954	2960	rBV4	7237	18178	2.58%	0.268%
83	20.256	2960	2964	2969	rVB	5214	6725	0.96%	0.099%
84	20.367	2971	2983	2987	rBV	29651	50012	7.11%	0.736%
85	20.467	2994	3000	3004	rBV2	31867	45082	6.41%	0.664%
86	20.526	3004	3010	3014	rVV4	8171	16206	2.30%	0.239%
87	20.567	3014	3017	3020	rVB3	4401	5327	0.76%	0.078%
88	20.661	3030	3033	3037	rBV3	3969	4400	0.63%	0.065%
89	20.714	3037	3042	3043	rBV4	5347	6519	0.93%	0.096%
90	20.744	3043	3047	3054	rVB	27514	36889	5.25%	0.543%
91	21.319	3142	3145	3148	rVB	7030	7369	1.05%	0.108%
92	21.366	3148	3153	3157	rBV3	15038	25508	3.63%	0.376%
93	21.454	3166	3168	3172	rVB3	3266	3339	0.47%	0.049%
94	21.742	3208	3217	3223	rBV	319765	592307	84.22%	8.720%
95	21.789	3223	3225	3236	rVB	33512	48412	6.88%	0.713%
96	23.434	3502	3505	3512	rVB2	10945	17803	2.53%	0.262%
97	23.969	3592	3596	3605	rBV3	7976	19352	2.75%	0.285%
98	24.786	3727	3735	3744	rBV	85999	223275	31.75%	3.287%
99	25.015	3764	3774	3785	rVB3	169270	479556	68.19%	7.060%
100	26.167	3965	3970	3980	rVB5	7955	23286	3.31%	0.343%

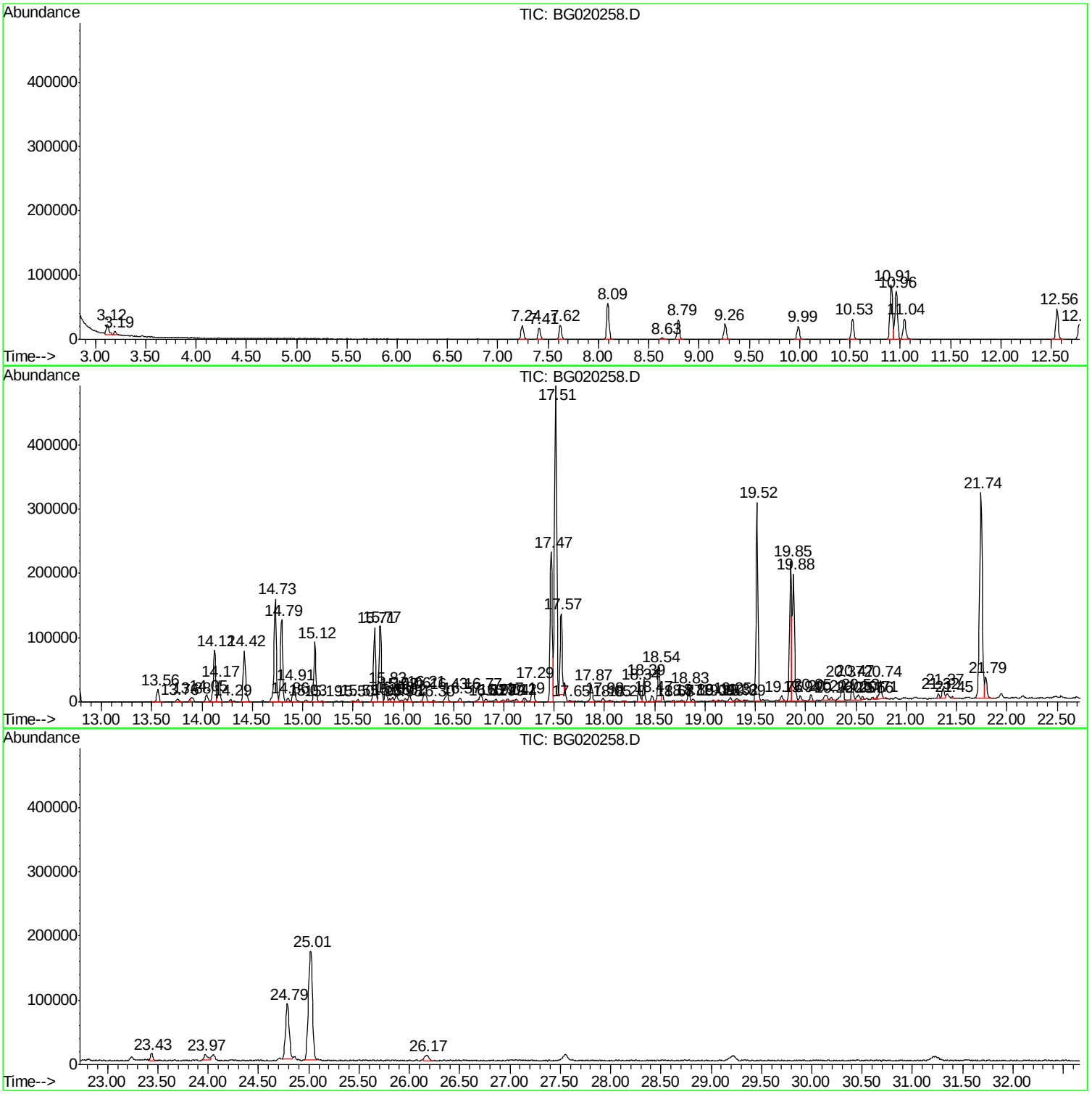
Sum of corrected areas: 6792340

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121815\
Data File : BG020258.D
Acq On : 17 Dec 2015 23:08
Operator : UM/SJ
Sample : G4767-16DL 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
D9N38DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.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\BG121815\
Data File : BG020258.D
Acq On : 17 Dec 2015 23:08
Operator : UM/SJ
Sample : G4767-16DL 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N38DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

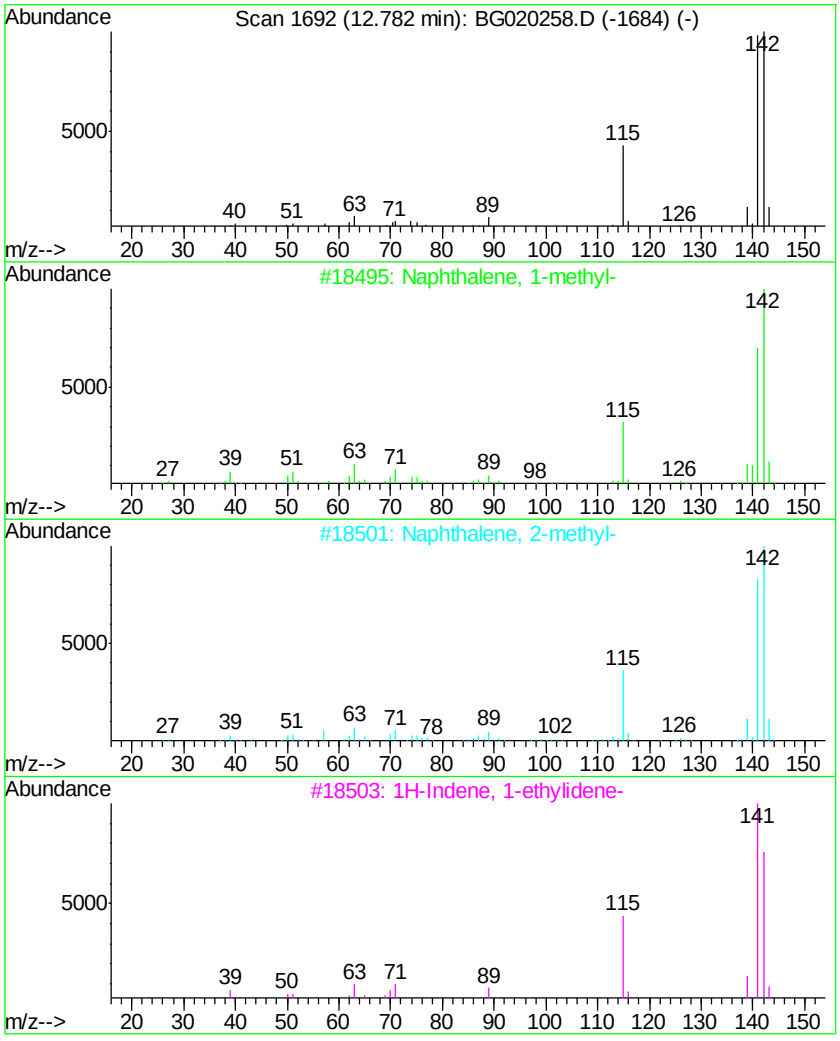
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

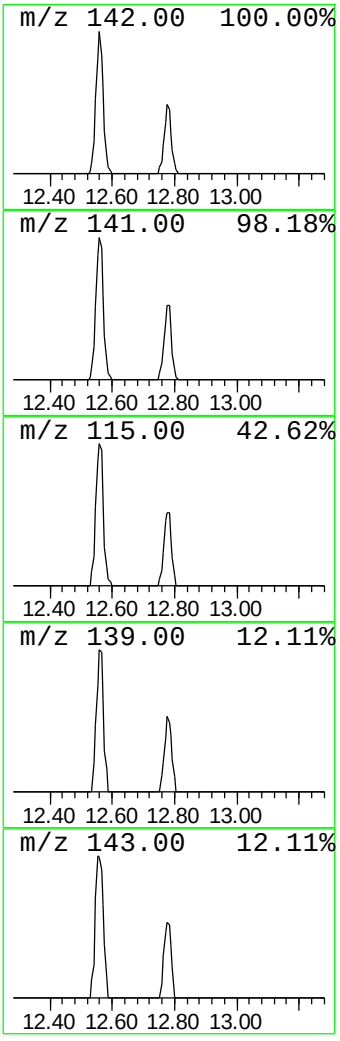
****

Peak Number 2 Naphthalene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.78	4.77 ng/ul	36608	Naphthalene-d8	10.91

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	91
2	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	91
3	1H-Indene, 1-ethylidene-	142	C11H10	002471-83-2	91
4	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	91
5	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	91





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121815\
Data File : BG020258.D
Acq On : 17 Dec 2015 23:08
Operator : UM/SJ
Sample : G4767-16DL 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N38DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

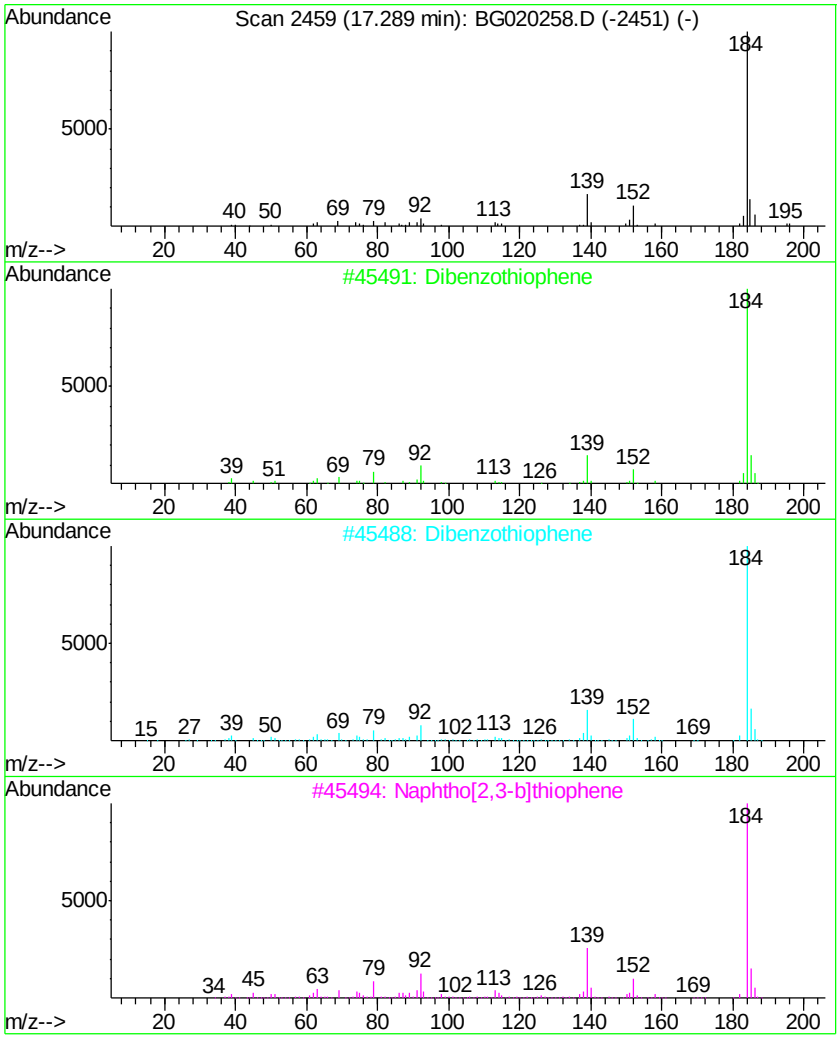
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

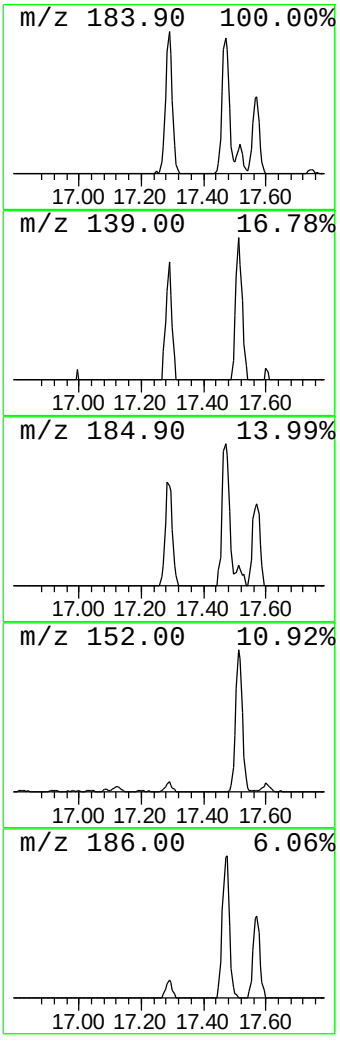
****

Peak Number 3 Dibenzothiophene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.29	2.55 ng/ul	46072	Phenanthrene-d10	17.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	94
2	Dibenzothiophene	184	C12H8S	000132-65-0	93
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	91
4	Dibenzothiophene	184	C12H8S	000132-65-0	91
5	Dibenzothiophene	184	C12H8S	000132-65-0	90





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121815\
Data File : BG020258.D
Acq On : 17 Dec 2015 23:08
Operator : UM/SJ
Sample : G4767-16DL 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N38DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

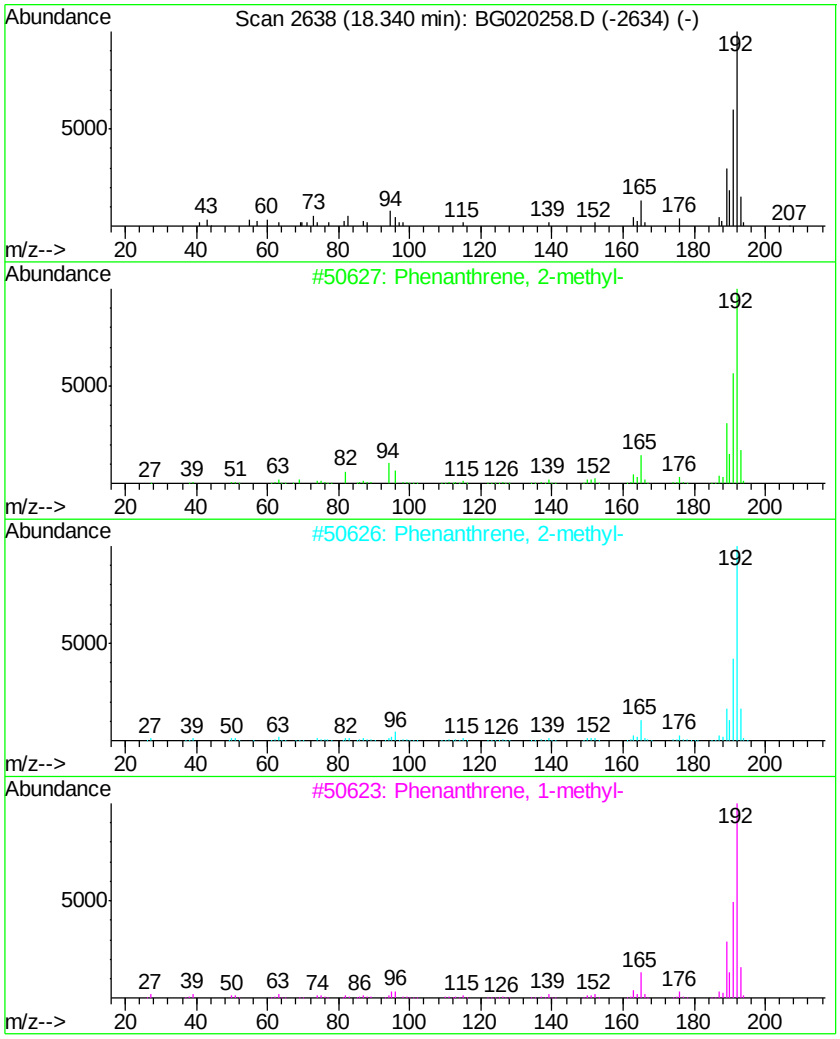
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

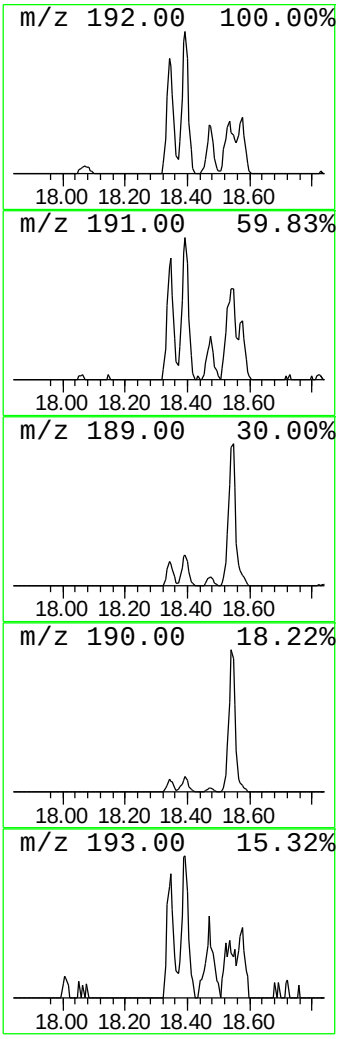
****

Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.34	2.30 ng/ul	41562	Phenanthrene-d10	17.47

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





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121815\
Data File : BG020258.D
Acq On : 17 Dec 2015 23:08
Operator : UM/SJ
Sample : G4767-16DL 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N38DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

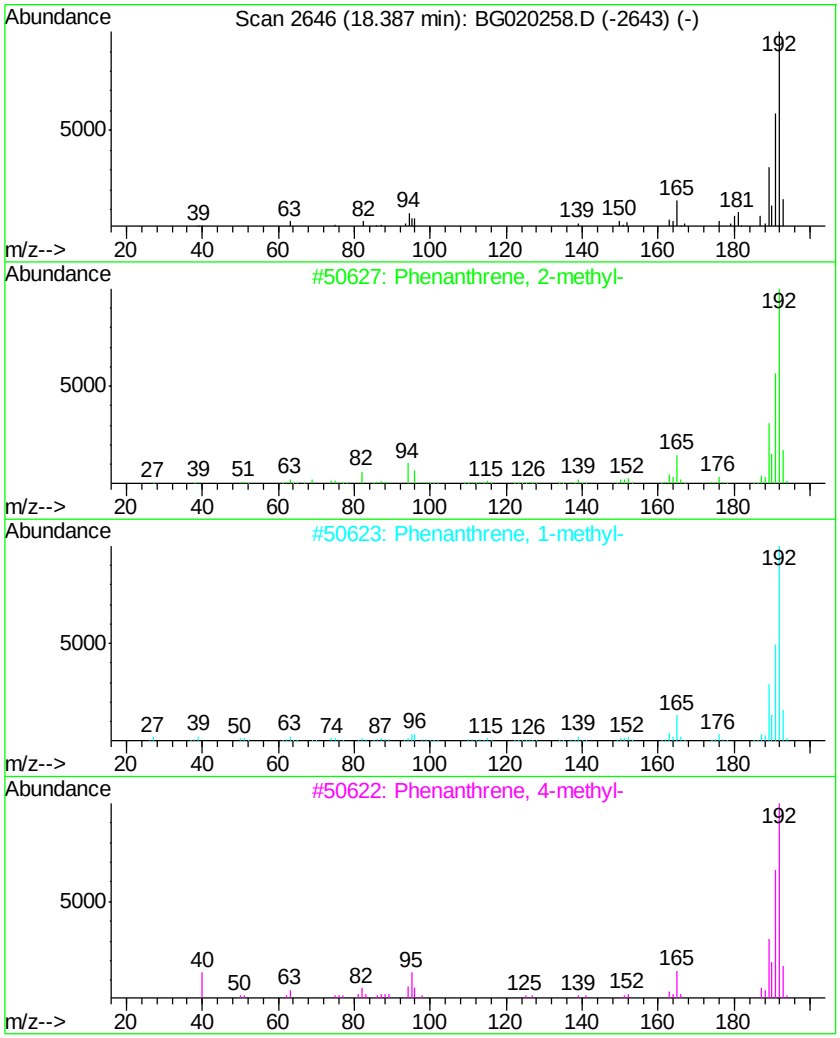
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

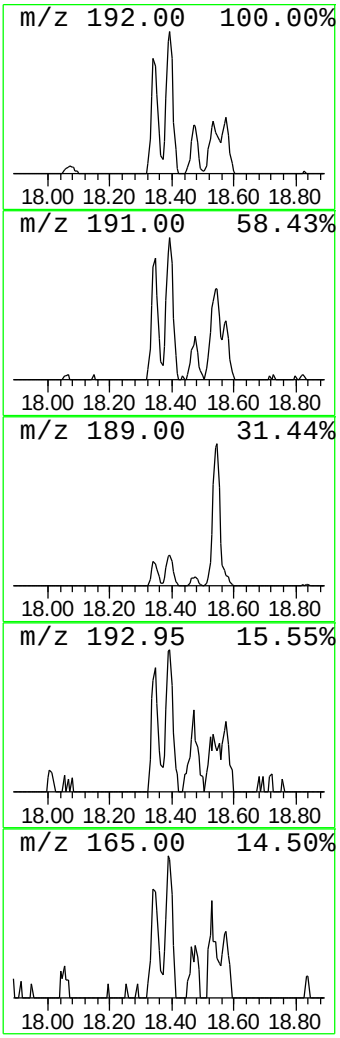
****

Peak Number 5 Phenanthrene, 4-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.39	2.69 ng/ul	48686	Phenanthrene-d10	17.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121815\
Data File : BG020258.D
Acq On : 17 Dec 2015 23:08
Operator : UM/SJ
Sample : G4767-16DL 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N38DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

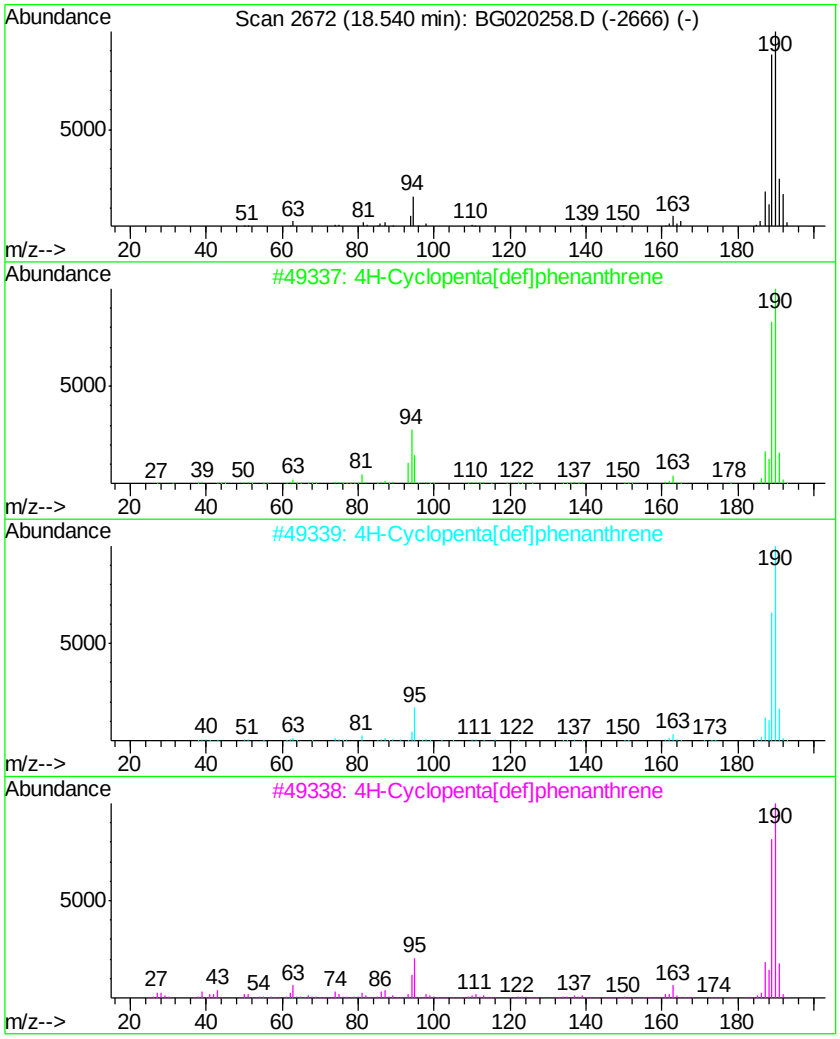
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

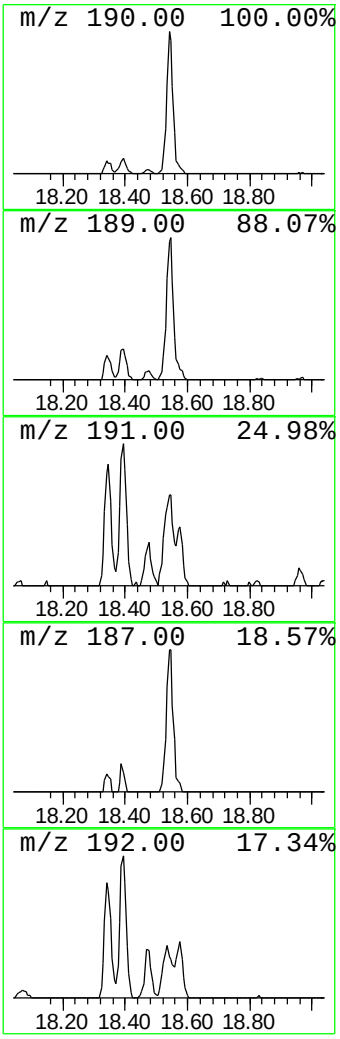
****

Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.54	5.00 ng/ul	90568	Phenanthrene-d10	17.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	90
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	87
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	50
5	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	42





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121815\
Data File : BG020258.D
Acq On : 17 Dec 2015 23:08
Operator : UM/SJ
Sample : G4767-16DL 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N38DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Naphthalene, 1-me...	12.78	4.8	ng/ul	36608	2	10.91	153560	20.0
Dibenzothiophene	17.29	2.5	ng/ul	46072	4	17.47	361958	20.0
Phenanthrene, 2-m...	18.34	2.3	ng/ul	41562	4	17.47	361958	20.0
Phenanthrene, 4-m...	18.39	2.7	ng/ul	48686	4	17.47	361958	20.0
4H-Cyclopenta[def...	18.54	5.0	ng/ul	90568	4	17.47	361958	20.0