LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG080619\
Data File : BG042026.D
Acq On : 7 Aug 2019 11:47
Operator : HP/JU
Sample : K4028-04
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ6

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:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.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	3.143	5	9	29	rVB	1439408	2287513	100.00%	9.380%
2	3.407	51	54	62	rVB4	6939	13209	0.58%	0.054%
3	3.942	141	145	148	rBV3	5633	7577	0.33%	0.031%
4	4.077	163	168	173	rVB2	10374	17578	0.77%	0.072%
5	5.100	338	342	348	rVB6	4476	8551	0.37%	0.035%
6	7.174	688	695	708	rBV	120582	243430	10.64%	0.998%
7	7.344	717	724	735	rBV	93020	169429	7.41%	0.695%
8	7.556	753	760	772	rBV	140577	251502	10.99%	1.031%
9	8.026	830	840	849	rBV	231764	396551	17.34%	1.626%
10	8.731	952	960	974	rBV	154353	293699	12.84%	1.204%
11	8.854	977	981	987	rVB5	3013	5964	0.26%	0.024%
12	9.189	1030	1038	1048	rBV	125241	232765	10.18%	0.954%
13	9.923	1155	1163	1172	rBV	110184	206931	9.05%	0.849%
14	10.464	1247	1255	1272	rBV	182342	361536	15.80%	1.482%
15	10.852	1313	1321	1335	rBV	351001	618844	27.05%	2.538%
16	10.981	1335	1343	1355	rBV	136791	278055	12.16%	1.140%
17	12.444	1587	1592	1598	rVB4	3142	5821	0.25%	0.024%
18	12.514	1599	1604	1612	rVB5	2602	5894	0.26%	0.024%
19	13.302	1732	1738	1740	rBV3	3302	5027	0.22%	0.021%
20	14.001	1854	1857	1864	rBV4	4769	7954	0.35%	0.033%
21	14.083	1864	1871	1875	rBV	416614	587022	25.66%	2.407%
22	14.130	1875	1879	1885	rVB	199351	287969	12.59%	1.181%
23	14.377	1913	1921	1936	rVB	475182	765215	33.45%	3.138%
24	14.688	1966	1974	1982	rBV	601904	974440	42.60%	3.996%
25	14.747	1982	1984	1990	rVB3	6981	10505	0.46%	0.043%
26	14.870	1999	2005	2011	rBV2	82092	162674	7.11%	0.667%
27	14.929	2011	2015	2025	rVB	67113	122649	5.36%	0.503%
28	15.094	2038	2043	2049	rVB5	20890	34753	1.52%	0.143%
29	15.164	2049	2055	2060	rBV5	3633	6894	0.30%	0.028%
30	15.311	2071	2080	2085	rBV4	3488	7670	0.34%	0.031%
31	15.487	2103	2110	2113	rBV4	7584	15270	0.67%	0.063%
32	15.517	2113	2115	2125	rVB4	9741	19173	0.84%	0.079%
33	15.681	2132	2143	2149	rBV	655458	998390	43.65%	4.094%
34	15.734	2149	2152	2156	rVV3	12007	17632	0.77%	0.072%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG080619\
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Acq On : 7 Aug 2019 11:47
Operator : HP/JU
Sample : K4028-04
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ6

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:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Title : SVOA CALIBRATION

35	15.793	2156	2162	2171	rVV	120770	205523	8.98%	0.843%
36	15.858	2171	2173	2176	rVV3	5928	7199	0.31%	0.030%
37	15.916	2178	2183	2186	rVV6	7278	15050	0.66%	0.062%
38	15.946	2186	2188	2191	rVV4	5340	6403	0.28%	0.026%
39	16.028	2197	2202	2209	rVB6	6290	15379	0.67%	0.063%
40	16.181	2223	2228	2234	rVB5	3655	8578	0.37%	0.035%
41	16.310	2246	2250	2257	rVV	28700	47113	2.06%	0.193%
42	16.404	2262	2266	2267	rBV2	8007	8501	0.37%	0.035%
43	16.463	2274	2276	2280	rVB4	4725	5292	0.23%	0.022%
44	16.557	2287	2292	2294	rBV3	4705	6289	0.27%	0.026%
45	16.616	2298	2302	2306	rVB5	3637	5475	0.24%	0.022%
46	16.739	2320	2323	2328	rVB6	5469	9651	0.42%	0.040%
47	16.792	2328	2332	2339	rVB7	6370	12618	0.55%	0.052%
48	16.892	2347	2349	2355	rVB4	4718	6332	0.28%	0.026%
49	16.950	2355	2359	2361	rBV4	4527	6689	0.29%	0.027%
50	17.091	2378	2383	2389	rBV4	9319	15277	0.67%	0.063%
51	17.174	2393	2397	2398	rBV3	4491	5679	0.25%	0.023%
52	17.197	2398	2401	2404	rVV5	8606	10689	0.47%	0.044%
53	17.250	2407	2410	2417	rVB2	11945	20816	0.91%	0.085%
54	17.350	2420	2427	2430	rVB8	10408	18991	0.83%	0.078%
55	17.438	2434	2442	2446	rBV	779765	1200641	52.49%	4.923%
56	17.479	2446	2449	2454	rVV	173779	254192	11.11%	1.042%
57	17.538	2454	2459	2469	rVB	679790	1072486	46.88%	4.398%
58	17.626	2469	2474	2481	rVB6	11675	22387	0.98%	0.092%
59	17.714	2486	2489	2493	rBV6	5739	11418	0.50%	0.047%
60	17.749	2493	2495	2499	rVB4	6880	7310	0.32%	0.030%
61	17.838	2501	2510	2514	rBV2	21316	44824	1.96%	0.184%
62	18.026	2538	2542	2550	rVB2	25506	45739	2.00%	0.188%
63	18.167	2561	2566	2570	rBV4	11065	17961	0.79%	0.074%
64	18.237	2573	2578	2582	rVV7	7998	12488	0.55%	0.051%
65	18.325	2587	2593	2597	rBV2	78538	162717	7.11%	0.667%
66	18.361	2597	2599	2604	rVB	69900	96968	4.24%	0.398%
67	18.443	2609	2613	2618	rVV	22698	34358	1.50%	0.141%
68	18.507	2619	2624	2628	rVV3	104349	177700	7.77%	0.729%
69	18.549	2628	2631	2638	rVB3	49580	90451	3.95%	0.371%
70	18.631	2639	2645	2648	rBV6	17110	36111	1.58%	0.148%
71	18.707	2656	2658	2662	rVB3	11343	14798	0.65%	0.061%

LSC Area Percent Report

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Operator : HP/JU
Sample : K4028-04
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ6

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:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Title : SVOA CALIBRATION

72	18.807	2670	2675	2679	rBV	33106	61002	2.67%	0.250%
73	18.848	2679	2682	2688	rVB3	78570	109397	4.78%	0.449%
74	19.060	2715	2718	2722	rVB	23737	26135	1.14%	0.107%
75	19.107	2724	2726	2730	rVB2	17833	16853	0.74%	0.069%
76	19.148	2730	2733	2738	rVB2	20339	25203	1.10%	0.103%
77	19.230	2742	2747	2751	rBV2	66470	123046	5.38%	0.505%
78	19.365	2766	2770	2778	rVB4	47031	84374	3.69%	0.346%
79	19.489	2786	2791	2797	rVB	377648	536827	23.47%	2.201%
80	19.553	2798	2802	2805	rBV4	30867	44624	1.95%	0.183%
81	19.630	2813	2815	2820	rVB4	28538	35221	1.54%	0.144%
82	19.823	2842	2848	2851	rBV	922980	1415939	61.90%	5.806%
83	19.853	2851	2853	2861	rVB	451071	548856	23.99%	2.251%
84	20.082	2889	2892	2895	rVB3	27797	33944	1.48%	0.139%
85	20.176	2903	2908	2914	rBV4	54406	142700	6.24%	0.585%
86	20.341	2933	2936	2941	rVB	95657	133262	5.83%	0.546%
87	20.440	2950	2953	2958	rVB	52822	64236	2.81%	0.263%
88	20.505	2960	2964	2967	rVB2	68274	90764	3.97%	0.372%
89	20.640	2984	2987	2991	rBV	67775	84952	3.71%	0.348%
90	20.687	2992	2995	2999	rVB	52358	70292	3.07%	0.288%
91	21.145	3070	3073	3080	rVB	188221	242691	10.61%	0.995%
92	21.375	3108	3112	3119	rVB5	72419	153612	6.72%	0.630%
93	21.616	3147	3153	3158	rVB	1243418	1748884	76.45%	7.171%
94	21.715	3162	3170	3176	rVV3	860569	1876919	82.05%	7.696%
95	21.768	3176	3179	3193	rVB	235733	394883	17.26%	1.619%
96	23.954	3544	3551	3557	rBV2	130532	386851	16.91%	1.586%
97	24.083	3570	3573	3579	rVB2	76697	131004	5.73%	0.537%
98	24.683	3669	3675	3680	rBV2	78962	200660	8.77%	0.823%
99	24.759	3681	3688	3695	rBV	406553	1051666	45.97%	4.312%
100	24.988	3718	3727	3735	rBV2	494448	1384452	60.52%	5.677%

Sum of corrected areas: 24387428

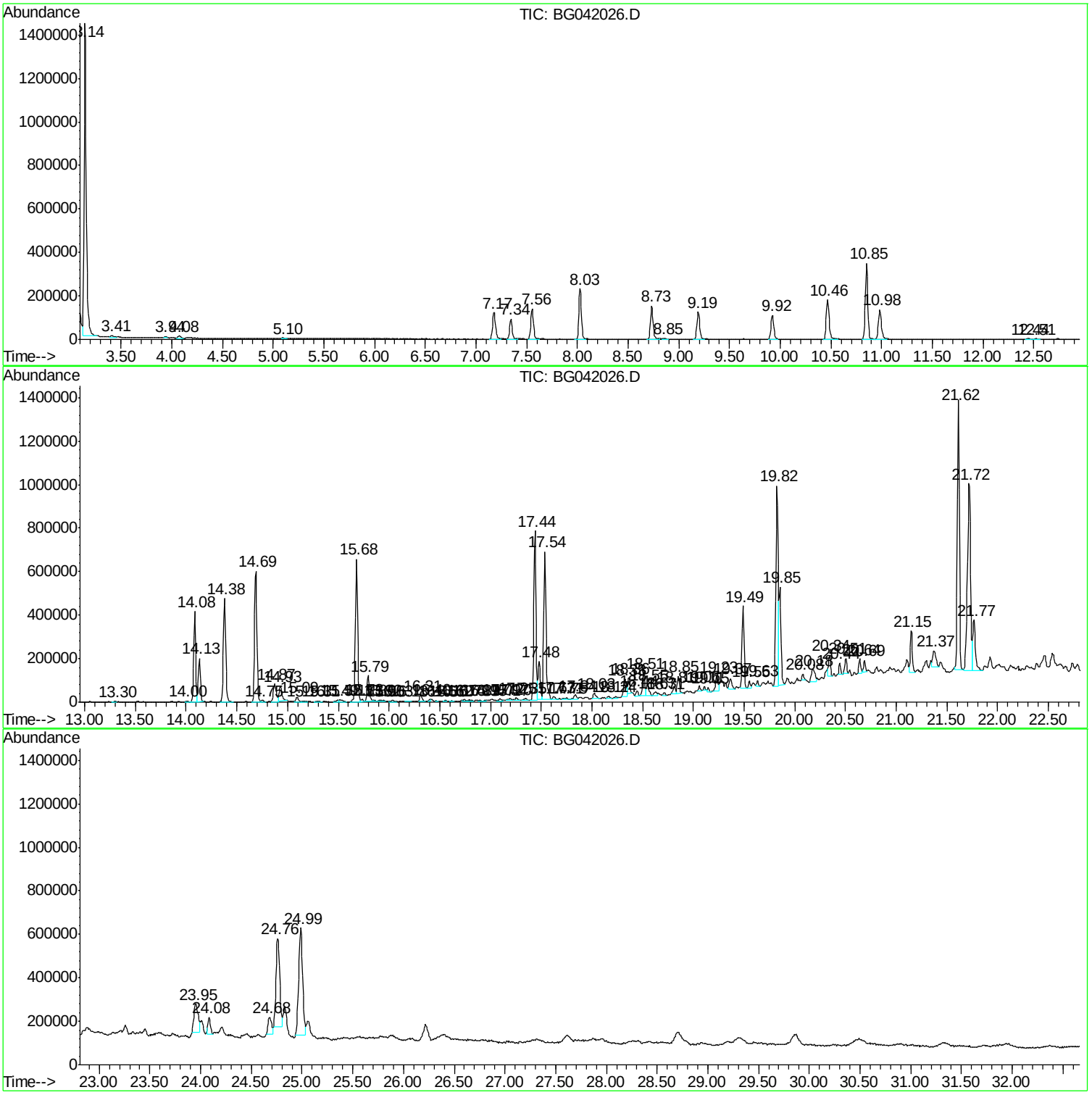
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG080619\
Data File : BG042026.D
Acq On : 7 Aug 2019 11:47
Operator : HP/JU
Sample : K4028-04
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG080619\
Data File : BG042026.D
Acq On : 7 Aug 2019 11:47
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Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

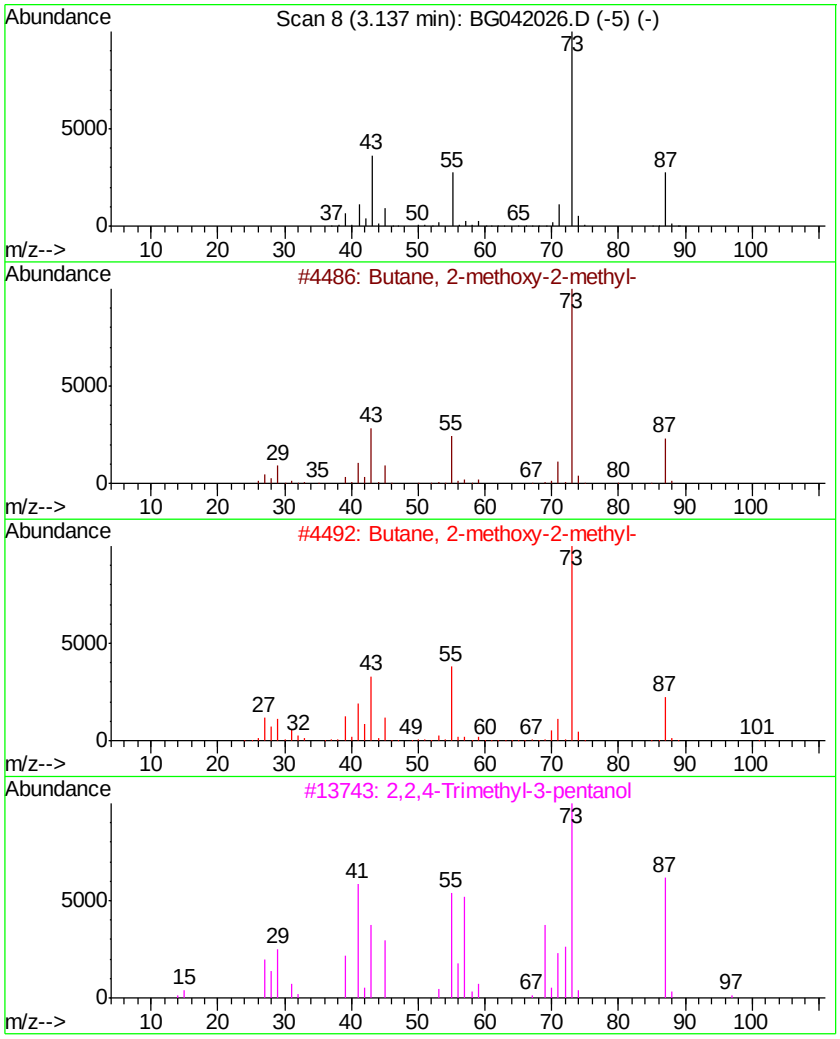
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

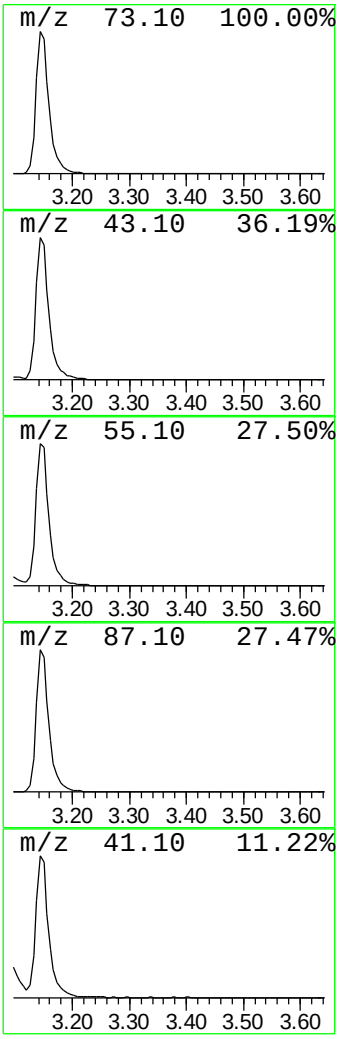
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.14	115.37 ng/ul	2287510	1,4-Dichlorobenzene-d4	8.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	45
3	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
4	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	23





Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG080619\
Data File : BG042026.D
Acq On : 7 Aug 2019 11:47
Operator : HP/JU
Sample : K4028-04
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

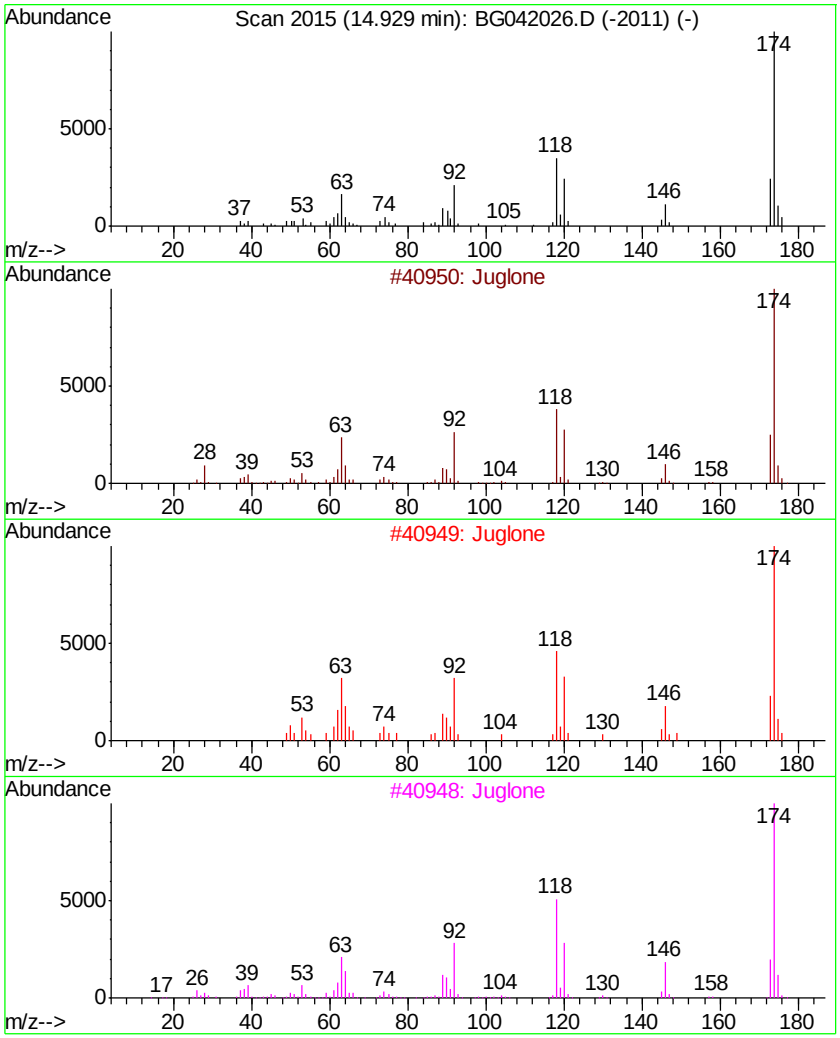
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

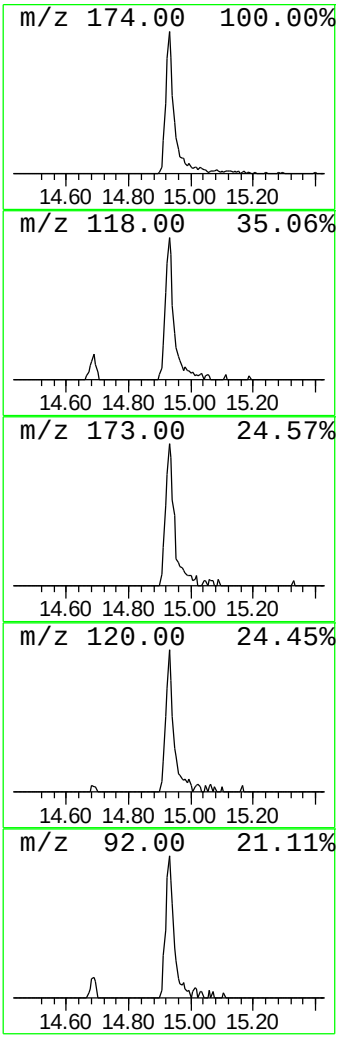
****

Peak Number 2 Juglone Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.93	2.52 ng/ul	122649	Acenaphthene-d10	14.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Juglone	174	C10H6O3	000481-39-0	95
2	Juglone	174	C10H6O3	000481-39-0	93
3	Juglone	174	C10H6O3	000481-39-0	93
4	Thiocyanic acid, 1H-indol-3-yl e...	174	C9H6N2S	023706-25-4	50
5	2-Cyanomethyl-1,3-benzothiazole	174	C9H6N2S	056278-50-3	43





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG080619\
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

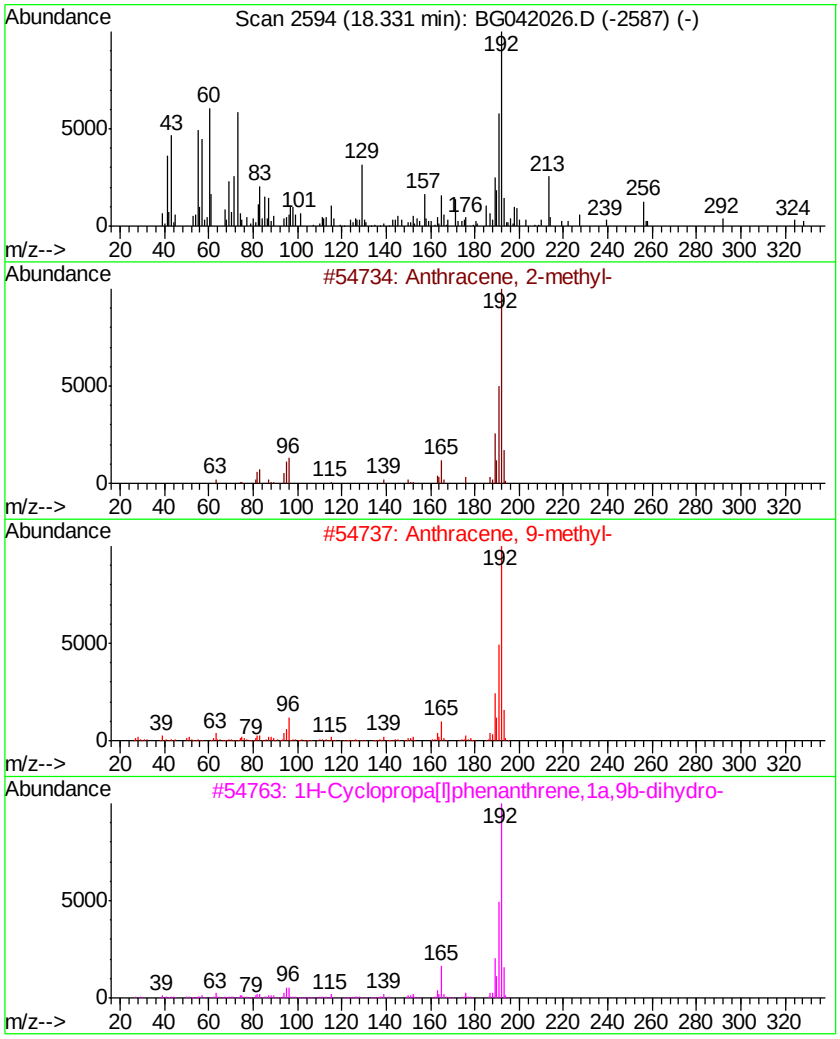
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

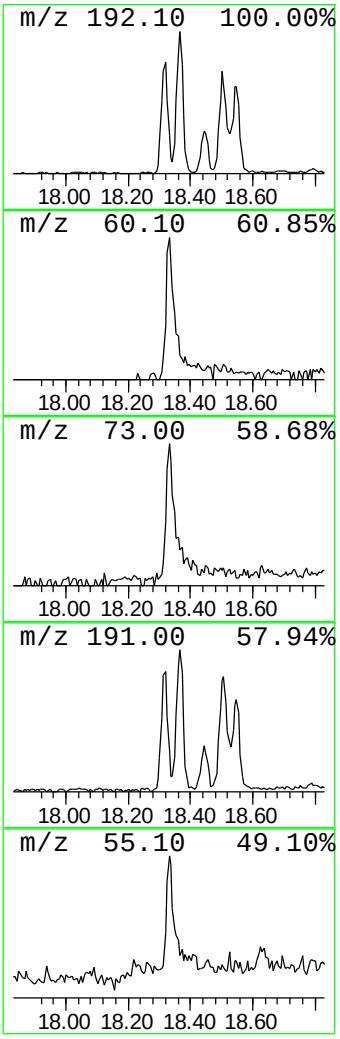
****

Peak Number 3 Anthracene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.33	2.71 ng/ul	162717	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	86
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	83
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	83
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	83
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	83





Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG080619\
Data File : BG042026.D
Acq On : 7 Aug 2019 11:47
Operator : HP/JU
Sample : K4028-04
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

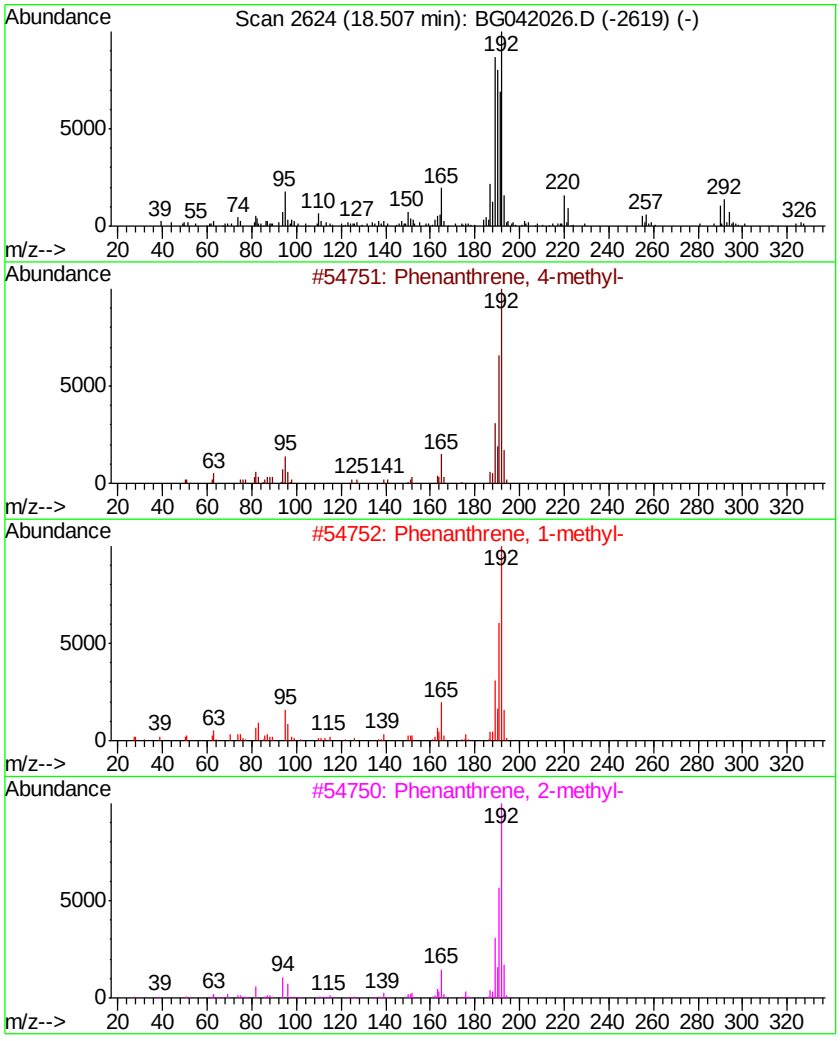
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

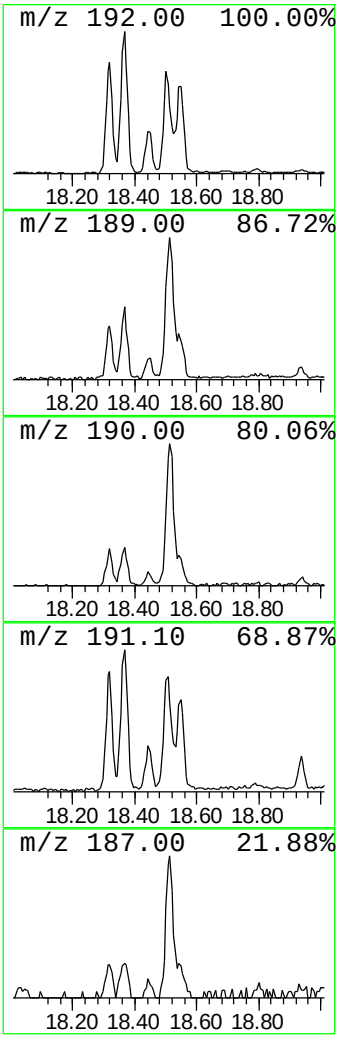
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.51	2.96 ng/ul	177700	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	51
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	51
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	38
4	2,6-Dichlorobenzaldoxime	189	C7H5Cl2NO	025185-95-9	38
5	Naphtho[1,2-b]norbornadiene	192	C15H12	1000210-14-8	38





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG080619\
Data File : BG042026.D
Acq On : 7 Aug 2019 11:47
Operator : HP/JU
Sample : K4028-04
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

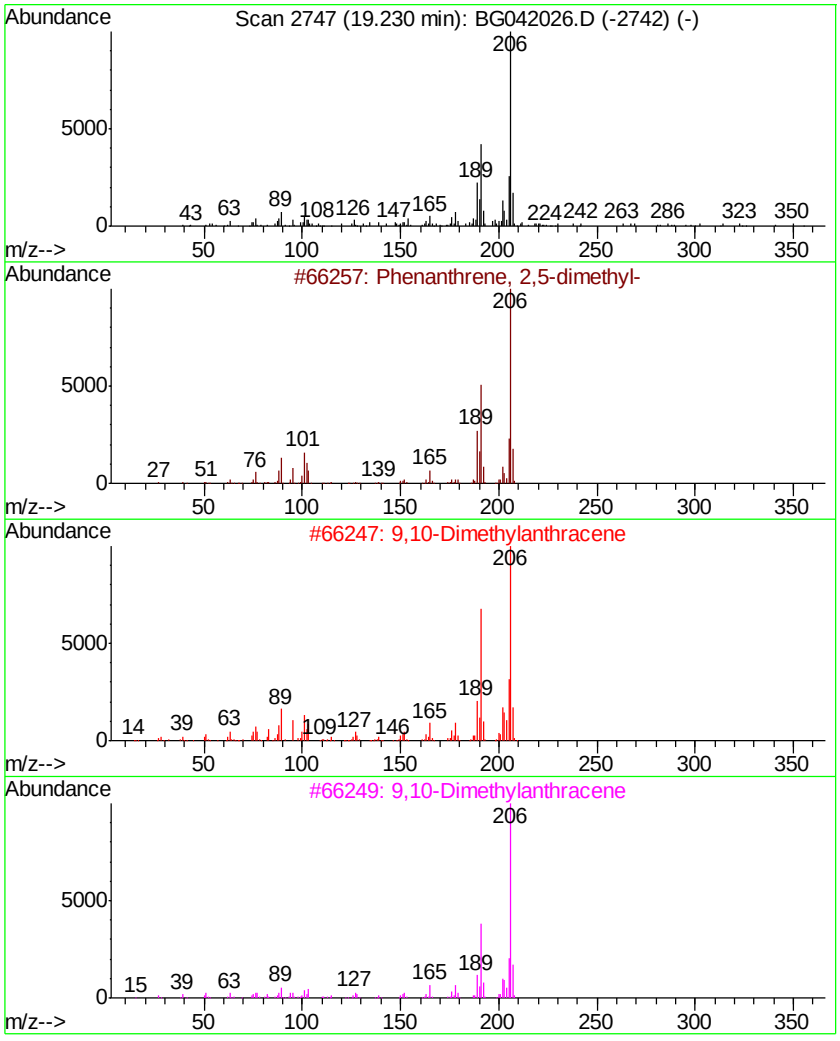
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

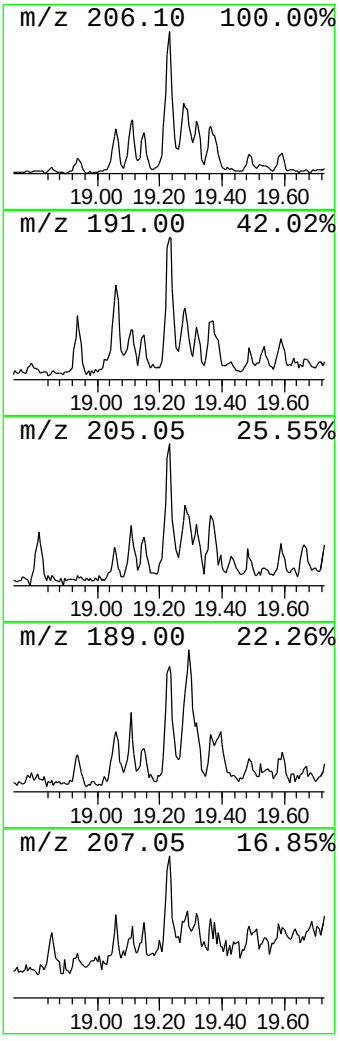
****

Peak Number 5 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.23	2.05 ng/ul	123046	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	89
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG080619\
Data File : BG042026.D
Acq On : 7 Aug 2019 11:47
Operator : HP/JU
Sample : K4028-04
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

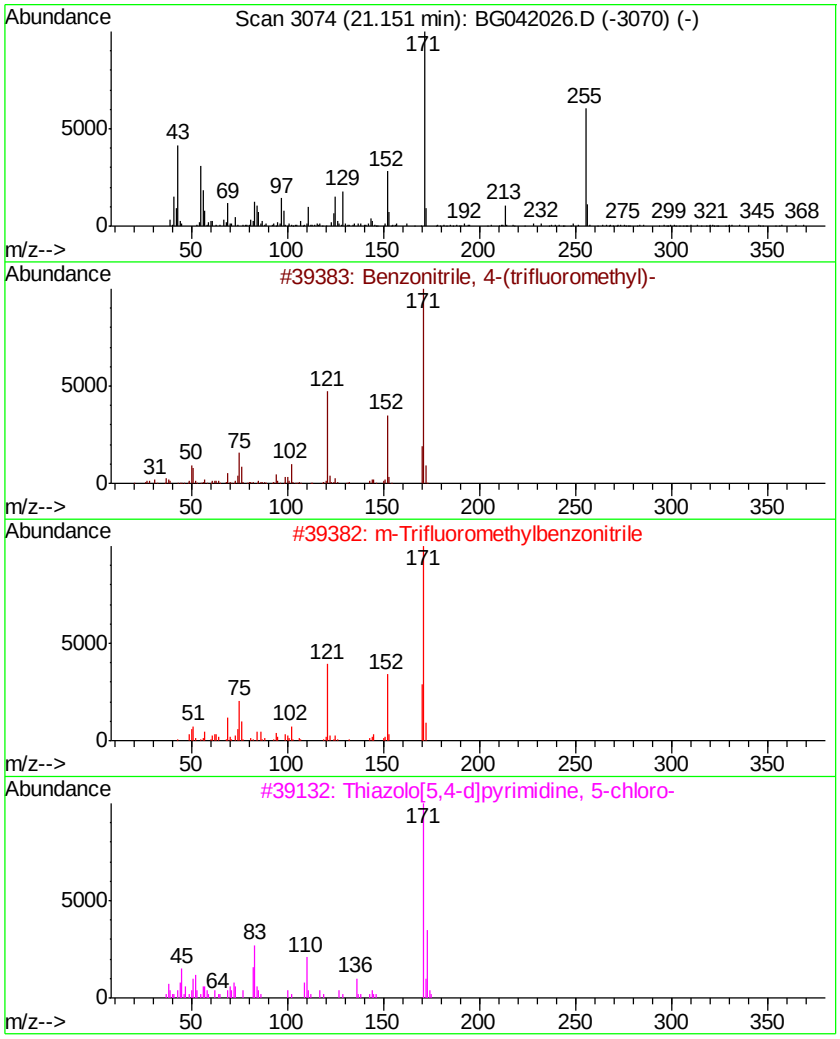
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

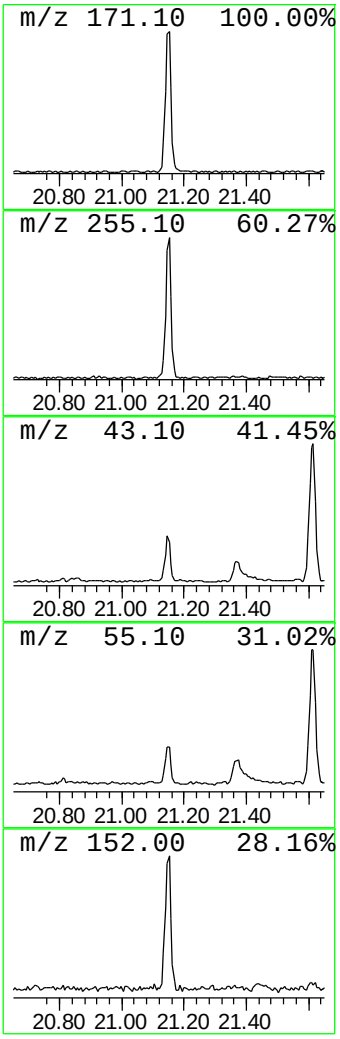
****

Peak Number 6 unknown-01 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.15	2.59 ng/ul	242691	Chrysene-d12	21.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzonitrile, 4-(trifluoromethyl)-	171	C8H4F3N	000455-18-5	38
2	m-Trifluoromethylbenzonitrile	171	C8H4F3N	000368-77-4	35
3	Thiazolo[5,4-d]pyrimidine, 5-chl...	171	C5H2ClN3S	013316-08-0	35
4	1,5-Dihydro-4H-furo[3,4-d][1,3]t...	171	C6H5NO3S	1000186-12-0	32
5	Suberic dihydrazide	202	C8H18N4O2	020247-84-1	25





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG080619\
Data File : BG042026.D
Acq On : 7 Aug 2019 11:47
Operator : HP/JU
Sample : K4028-04
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

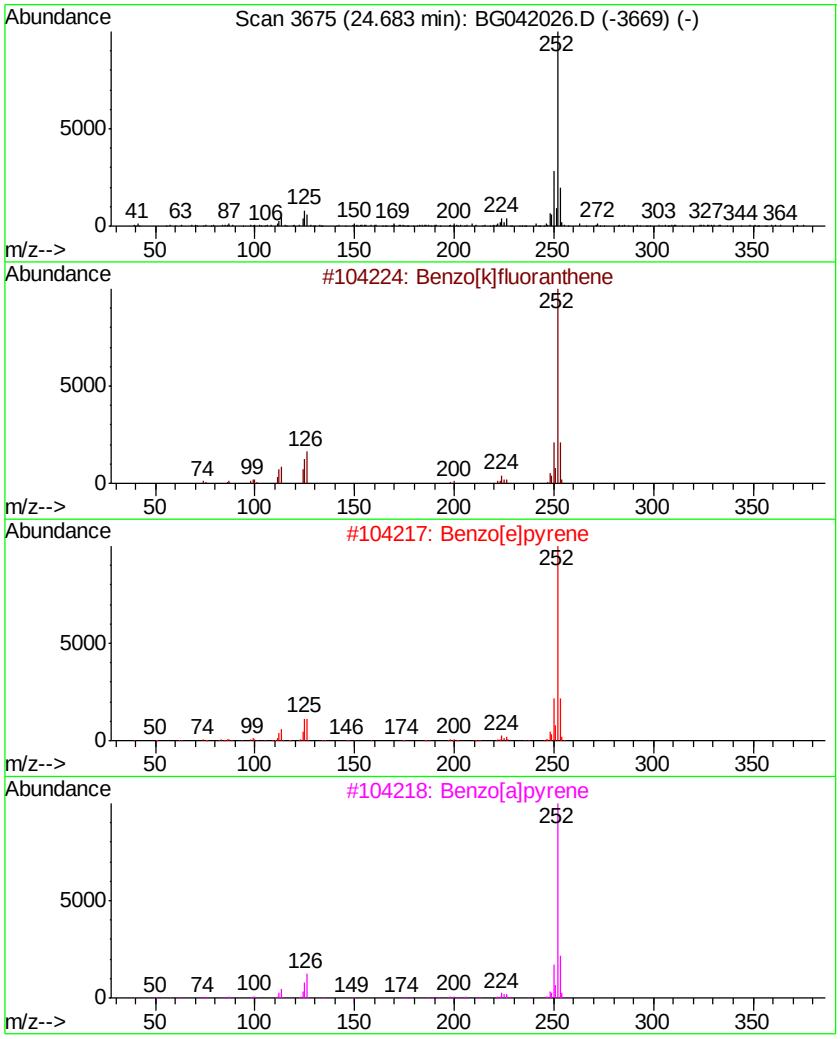
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

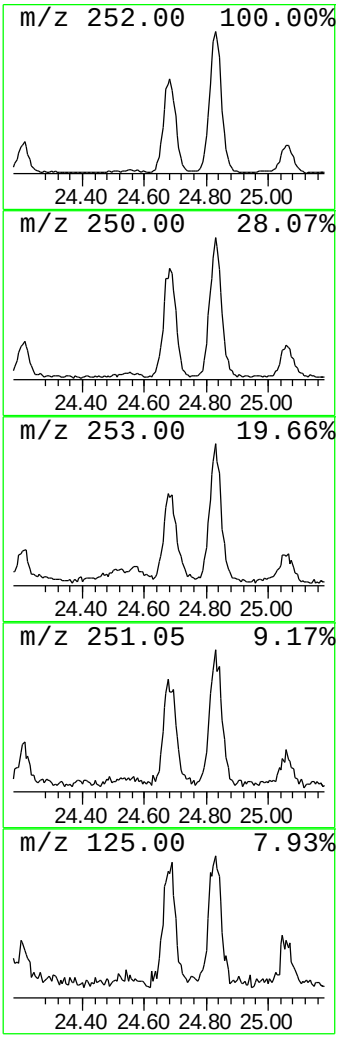
****

Peak Number 7 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.68	2.90 ng/ul	200660	Perylene-d12	24.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
2	Benzo[e]pyrene	252	C20H12	000192-97-2	94
3	Benzo[a]pyrene	252	C20H12	000050-32-8	90
4	Perylene	252	C20H12	000198-55-0	81
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	81





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG080619\
Data File : BG042026.D
Acq On : 7 Aug 2019 11:47
Operator : HP/JU
Sample : K4028-04
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-methoxy...	3.14	115.4	ng/ul	2287510	1	8.03	396551	20.0
Juglone	14.93	2.5	ng/ul	122649	3	14.69	974440	20.0
Anthracene, 2-met...	18.33	2.7	ng/ul	162717	4	17.44	1200640	20.0
Phenanthrene, 4-m...	18.51	3.0	ng/ul	177700	4	17.44	1200640	20.0
Phenanthrene, 2,5...	19.23	2.0	ng/ul	123046	4	17.44	1200640	20.0
unknown-01	21.15	2.6	ng/ul	242691	5	21.72	1876920	20.0
Benzo[e]pyrene	24.68	2.9	ng/ul	200660	6	24.99	1384450	20.0